 USGS-OFR-87-80

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

HISTORICAL CATALOG OF SOUTHERN GREAT BASIN EARTHQUAKES 1868–1978

by

Mark E. Meremonte and Albert M. Rogers

Open-File Report 87-80

Prepared in cooperation with the
Nevada Operations Office
U.S. Department of Energy
(Interagency agreement DE-AI08-78ET44802)

This report is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature. Any use of trade names is for descriptive purposes only and does not imply endorsement by the USGS.

Denver, Colorado
1987

Copies of this Open-File Report
may be purchased from

Open-File Services Section
Branch of Distribution
U.S. Geological Survey
Box 25425, Federal Center
Denver, Colorado 80225

PREPAYMENT IS REQUIRED

Price information will be published
in the monthly listing
"New Publications of the Geological Survey"

FOR ADDITIONAL ORDERING INFORMATION

CALL: Commercial: (303) 236-7476
FTS: 776-7476

USGS-OFR-87-80

USGS-OFR-87-80

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Denver, Colorado

HISTORICAL CATALOG OF SOUTHERN GREAT BASIN EARTHQUAKES 1868–1978

by

Mark E. Meremonte and Albert M. Rogers

CONTENTS

	Page
Introduction	1
Acknowledgments	2
Sources of data	2
Criteria used in the compilation	2
Hypocenter quality	4
Magnitudes	4
Plotting of data	5
Man-made activity	5
Significant earthquakes	7
Remarks	8
References cited	8
Appendix A: Hypocenter quality rating systems	30
Appendix B: List of the southern Great Basin earthquakes from 04 September 1868 to 29 July 1978	34
Format description of the SGB historical hypocenter summary	35
Appendix C: List of the announced nuclear tests at NTS 22 October 1951 to 31 July 1978	190
Format description of the announced nuclear tests	191

ILLUSTRATIONS

Figure 1. Map of the catalog area showing the southern Great Basin seismic network	18
2. Map of generalized seismic zones and tectonic features in the southern Great Basin	19
3. Plots of arc distance Z versus $\|\Delta t\|$ showing the regions A, B, C, and D	20
4. Map of the southern Great Basin catalog area showing the overall historical seismicity from 04 September 1868 to 29 July 1978 (original data)	21
5. Map of the southern Great Basin catalog area showing the overall historical seismicity from 04 September 1868 to 29 July 1978 (randomized data)	22
6. Map of the southern Great Basin catalog area showing the historical seismicity from 04 September 1868 through 1939 (randomized data)	23
7. Map of the southern Great Basin catalog area showing the historical seismicity from 1940 through 1949 (randomized data)	24
8. Map of the southern Great Basin catalog area showing the historical seismicity from 1950 through 1959 (randomized data)	25
9. Map of the southern Great Basin catalog area showing the historical seismicity from 1960 through 1969 (randomized data)	26
10. Map of the southern Great Basin catalog area showing the historical seismicity from 1970 to 29 July 1978 (randomized data)	27

11. Map of the southern Great Basin catalog area showing the historical seismicity from 1868 through 1956 before the beginning of extensive underground nuclear testing (randomized data) 28
12. Map of the southern Great Basin catalog area showing the historical seismicity from 1957 to 29 July 1978 after the beginning of extensive underground nuclear testing (randomized data) 29

TABLES

Table 1. List of data sources 11
2. Priority list for multiply reported hypocenters 15
3. Priority list for multiply reported magnitudes 17

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

A CATALOG OF SOUTHERN GREAT BASIN EARTHQUAKES FOR THE PERIOD 1868–1978

by

Mark E. Meremonte and Albert M. Rogers

INTRODUCTION

This catalog is a collation of earthquake hypocenters, intensities, and magnitudes for the southern Great Basin (SGB) for the period 1868-1978 prior to the operation of the SGB network (fig. 1). The data from this catalog are drawn from many sources such as earlier non-instrumental reports for the oldest earthquakes in national catalogs, reports by university stations operated in California, Nevada, and Utah (generally several hundred kilometers distant), and data collected by local and regional networks that were operated temporarily in limited areas of the SGB.

The geographical boundaries of the catalog are 35.6°–38.5° N., 114.5°–118.0° W. This area encloses a circle of about 160 km radius centered on NTS. Sources outside this zone are unlikely to produce short-period ground motions of a level sufficient to cause damage to either the surface or the subsurface facilities. Long-period ground motions from more distant sources could produce damage to structures with matching structural periods, but this problem, if found to be pertinent to the waste storage facility, will require special study. The area of this catalog includes several Quaternary, Late Quaternary, and Holocene geologic structures such as the Fish Lake–Death Valley–Furnace Creek fault zones on the west, the East-West seismic zone, the "paleoseismic" zone to the east of Yucca Mountain (the proposed site of the repository), and other less prominent structures across the southern Great Basin (fig. 2). The catalog spans the time period from about the beginning of the historical era in this region to the beginning of the operation of the SGB seismograph network. During this 110 year time period, from 1868 to August 1978, over 7300 earthquakes have been noted. For each of these earthquakes we report the date, origin time, hypocenter, and one or more of the following magnitudes: M_S, M_L, M_D, m_b, and *other*. When available, we also include the maximum Modified Mercalli intensity, the hypocenter quality rating, and error estimates for the origin time and the hypocenter.

The catalog includes both natural and man-made earthquake activity. Man-made events include aftershocks and cavity collapses (which occur following most NTS nuclear tests), mining blasts and high-explosive experiments, and induced seismicity due to the impoundment of Lake Mead. An attempt has been made to identify each of these classes of events in the catalog, although the classification should be considered tentative, particularly in the case of nuclear event aftershocks. Research is in progress to determine which events are aftershocks of nuclear tests and how these events should be treated in a seismic hazard assessment.

This catalog is important in two respects. First, the data permit computation of the rate of earthquake occurrence for the region, although corrections for incompleteness are required. Second, the data indicate, in a general way, which geologic zones have been active in the past. Both of these results have a bearing on the computation of seismic hazard to the proposed nuclear waste repository at Yucca Mountain on the Nevada Test Site (NTS).

ACKNOWLEDGMENTS

We would like to thank Carl W. Stover, Glen Reagor, and James Taggart for their help throughout the course of this work and their useful suggestions on data sources, compilation, and report formating. We gratefully acknowledge the assistence of Bruce A. Bolt of the University of California at Berkeley, Kate Hutton of the California Institute of Technology, Ute Vetter of the University of Nevada at Reno, and Fred Fischer, who contributed some of the data in this report. We also thank Luke J. Vortman of Sandia National Laboratories and David M. Perkins and Arthur C. Tarr of the U. S. Geological Survey for their reviews which improved the text. The work was performed in cooperation with the U.S. Department of Energy, Nevada Nuclear Waste Storage Investigations Project under agreement DE-AI08-78ET44802.

SOURCES OF DATA

The SGB historical catalog was compiled from various earthquake catalogs and seismological bulletins that reported earthquakes from the SGB or its subregions. The data sources that we used are as follows:

- the Seismographic Station of the University of California at Berkeley (BRK);
- the Seismological Laboratories of the California Institute of Technology (PAS);
- the California Division of Mines and Geology;
- the National Oceanic and Atmospheric Administration (NOAA);
- the U.S. Geological Survey;
- the Seismological Laboratory of the University of Nevada, Reno;
- the International Seismological Centre (ISC);
- Teledyne Geotech–Alexandria Laboratories;
- and other seismological sources (table 1).

An alphabetical listing of all the source code abbreviations and their respective references are given in table 1. Seismicity recorded by the SGB seismograph network that has been operated by the U.S. Geological Survey since 1978 is published separately (Roger and others, 1981, 1983).

CRITERIA USED IN THE COMPILATION

A problem that occurs when merging catalogs from multiple data sources is that the merged catalog invariably contains multiple entries for the same earthquake, whose origin times, locations, and magnitudes are not exactly equal and may even exhibit significant discrepances. Thus, one first needs to determine which events are duplicates, and then, to decide which one of the multiple earthquake locations and magnitudes is the most

accurate to retain in the merged catalog. Determination of those entries in the catalog that are duplicates can be a difficult problem, but once decided it is generally feasible to choose the preferred data source. We compiled the data according to a system of priorities for hypocentral location (table 2) and for magnitude (table 3). These priorities are somewhat subjective, but are based on the number, density, and distance of stations that are used to compute the earthquake parameters. For instance, an earthquake located by a local network would always be considered highest priority for listing. Regional stations or networks operating outside of the SGB region were considered to be of intermediate priority, and earthquake data based primarily on reports from national or world-wide stations were considered the lowest priority.

In addition to the system of priorities that were used to help make the final choices amongst duplicates, a procedure to delineate the duplicates had to be found. To do this, we tabulated the absolute difference between origin times ($|\Delta t|$) and the arc distance (Z) between locations for all suspected duplicate earthquakes in the catalog having values of $|\Delta t| \leq 100$ seconds and $Z \leq 3.0°$, where Z is calculated as follows. Converting latitudes to geocentric colatitudes and using spherical trigonometry we have:

$$Z = \cos^{-1}(\sin\phi \sin\theta \cos c + \cos\phi \cos\theta)$$

where angles ϕ and θ are the geocentric colatitudes of the two earthquakes in radians; c is the longitudinal gap between two epicenters in degrees; and Z is the arc distance between the two events in degrees. Plotting Z versus $|\Delta t|$ (fig. 3), we see that $|\Delta t| - Z$ space can be subjectively divided into four principal regions (A, B, C, and D) where the data accumulate.

$|\Delta t| \leq 10.0$ seconds; $Z \leq 0.5°$ (region A)
$|\Delta t| \leq 10.0$ seconds; $0.5° \leq Z \leq 1.0°$ (region B)
$|\Delta t| \geq 10.0$ seconds; $Z \leq 0.5°$ (region C)
outside of above ranges (region D).

During the initial merging of the sources, obvious duplicates were objectively delineated and, subsequently, eliminated from the merged data set according to the following rule:

$$|\Delta t| \leq 5.0 \text{ seconds}; \ \Delta lat \leq 0.2°; \ \Delta long \leq 0.2°$$

Thus, region A is void of the duplicates that satisfied the above initial parameters. Although this procedure eliminated many duplicate events, numerous earthquakes remained in the catalog that appeared to be potential duplicates.

Of the total number of possible duplicates, 92%, 1%, 6%, and 1% fall in regions A, B, C, and D, respectively. Duplicates satisfying the requirements in region A were eliminated systematically unless some peculiarity existed between the two earthquakes, such as very different magnitudes. Events satisfying the criteria in regions B, C, and D were examined individually for potential elimination. If a combination of factors strongly suggested that two entries were duplicates, then one of the entries was eliminated. The result of this process was to eliminate 4558 of 4564 events in A, 44 of 48 events in B, 111 of 277 in C,

and 36 of 54 in D. Note in figure 3 that events occurring whole minutes or whole seconds apart were prime duplicate candidates.

Some nuclear explosion aftershocks and (or) earthquakes occurring minutes to hours after nuclear explosions were unlocatable due to interference of waves from several earthquakes with overlapping time-history signatures. These events were retained in the catalogs of Hamilton and others (1971) and Rogers and others (1977) by date, approximate origin time, and duration magnitude. Of these events, those with $M_D \geq 3.0$ have been retained in this catalog in order to preserve some measure of the total energy release that has occurred in aftershock series in the nuclear testing aftershock zones. We have arbitrarily assigned these events epicentral coordinates equal to those of the nuclear event that occurred just prior to the earthquake.

HYPOCENTER QUALITY

A hypocenter quality rating is reported for events when it is available. In general, the quality ratings used in the past are not uniform—different sources use different schemes—and are retained in their original form here. Data sources that have reported a hypocentral quality are Hamilton and others (1971), Fischer and others (1972), Rogers and Lee (1976), Rogers and others (1977), Askew and Algermissen (1983), the Seismological Laboratory of the University of Nevada-Reno, the Seismological Laboratories of the California Institute of Technology, and the Seismographic Station of the University of California at Berkeley. See appendix A for a more detailed explanation of the quality rating systems used.

MAGNITUDES

Magnitudes are reported whenever possible and follow the priority list as outlined in table 3. The catalog retains as many as five different magnitudes: M_S, M_L, M_D, m_b, and *other*. Of these, M_L and M_D are reported most often. The M_L magnitude is Richter's local magnitude computed from a Wood-Anderson seismograph. These magnitudes were reported by the University of California at Berkeley, the California Institute of Technology, and the University of Nevada-Reno before 1973. From 1973 to present, the University of Nevada-Reno reported M_D magnitude. The M_D magnitude is an equivalent Richter magnitude computed from the duration of the coda and it has been given in seismicity reports by Smith and others (1971), Hamilton and others (1971), Papanek and Hamilton (1972), Fischer and others (1972), Rogers and Lee (1976), and Rogers and others (1977). M_S and m_b magnitudes were less frequently reported. The magnitude denoted as *other* is often unidentified by type in the original source. In some cases, however, such as for magnitudes reported by the source ALX (table 1), a type of m_{bLg} magnitude (R. G. Baker, 1970) is given. Source BRP always listed M_S, although in many cases this magnitude was computed from m_b, M_L or from the reported maximum intensity. These conversions were computed from the relationships:

$$M_S = 1.59 m_b - 3.6 \text{ (Nuttli and Zollweg, 1974)}$$
$$M_S = 1.32 M_L - 2.112 \text{ (Gutenberg and Richter, 1956)}$$
$$M_L = 1.00 + (2/3) I_0 \text{ (Gutenberg and Richter, 1956).}$$

Note that the intensity relationship will probably produce an underestimated magnitude for this region because it is so sparsely populated. If both BRK and PAS reported M_L magnitudes for the same event, then both magnitudes are included in this catalog unless some other M_L magnitude source took precedence.

PLOTTING OF DATA

Historically, earthquake locations reported in many of the national catalogs before about 1975 were computed to the nearest known degree or decimal degree because data acquisition and location accuracy were not believed to warrant reporting additional precision. Plots of such data have a gridded pattern and many events are overplotted at a single point. The resulting plots obscure the density of earthquake activity and any structure in the events that may be present. To solve the density problem, a small random component was added to the epicentral coordinates in figures 5–12. The maximum magnitude of this random component never exceeds ±0.05° and never is smaller than ±0.005°. The size of the maximum random component depends on the number of decimal places reported for the original coordinate estimate. The more decimal places that were reported for the original coordinate estimate the smaller the added maximum random component. Compare figure 4, a plot of the original data, with figure 5, a plot of the randomized data, to observe the change in the seismicity patterns and density. For many events overplotted at a single point, the maximum limits of the randomizing component force the data to plot in a rectangle centered around that point with dimensions of 0.1° latitude by 0.1° longitude. This is clearly seen near Lake Mead (LM) in figures 5 and 7. Figures 6–10 display the randomized data over a series of sequential time intervals.

Even though the catalog lists five types of magnitudes, only the M_L and the M_D magnitudes were used in the plots. For events which have no M_L and (or) M_D reported, the epicentral symbol is scaled to a magnitude equal to zero. Many earlier hypocentral solutions were reported with fixed depth and, thus, we do not show any plots representing earthquake depths. We know from detailed local studies, however, that most earthquakes in this region occur in the upper half of the crust above 15 km. (Hamilton and others, 1971; Rogers and Lee, 1976; Rogers and others, 1981, 1983).

MAN-MADE ACTIVITY

This catalog includes both natural earthquakes and earthquakes that have been induced by the activities of man, including NTS nuclear testing and the impoundment of Lake Mead. At present no simple technique has been devised to differentiate between induced earthquakes and those that might be considered to be part of the natural backgound activity of this region. It may prove to be important, however, to identify such events if they have a notable effect on the computed seismic hazard of the region. For this reason we attempt to annotate earthquakes that are potentially induced. We have also specially annotated events that are known to be underground nuclear-test cavity collapses and high energy chemical explosions. It should be noted that the annotation of potentially induced earthquakes in this catalog is arbitrary to a degree and may include earthquakes that are part of the background seismicity or, conversely, may exclude earthquakes that

are induced. Future research, currently in progress, may provide a means of improving our discrimination between the two types of events.

Data on the origin times and dates of collapses and high energy explosions, which permitted annotation of these events, were provided by Sandia National Laboratories (Luke Vortman, written commun.) and NOAA (1982). Lake Mead seismicity was specially annotated if the earthquake occurred within an arbitrary boundary drawn parallel to (but 0.2° outside) the lake perimeter.

Annotation of nuclear event aftershocks is difficult because the time histories of these events are generally undifferentiable from regional earthquakes. Some of these events are undoubtedly related to processes in the immediate vicinity of the nuclear test cavity, but others that are located kilometers away from the test and (or) that occur for days or months (perhaps longer) after the test are more difficult to identify. Premonitory cracking and straining related to the collapse process frequently produces earthquake signatures that are relatively emergent, making these events more difficult to locate. This fact creates a natural discrimination process in the catalog; that is, cavity related events are frequently omitted from earlier catalogs because they can not be located.

Review of detailed studies of nuclear test aftershocks at Pahute Mesa may provide clues about how these events can be discriminated from natural background seismicity. Hamilton and others (1971) noted that 95% of the aftershocks of 4 nuclear explosions having magnitudes greater than about 5.8 occurred within 14 kilometers of ground zero and 94% occurred in the upper 5 kilometers of the crust. Rogers and others (1977) conducted similar studies for 8 nuclear tests having the same magnitude range and found that although the aftershocks in the latter testing series clustered more closely around ground zero, the depths of the aftershocks were significantly greater. Between 93 and 100% of the aftershocks occurred within 6 km of ground zero in each nuclear test studied. These earthquakes had computed hypocentral depths ranging between 4 and 15 km., which is somewhat greater diffusion in depth than was observed in the earlier study. Some of the increase in the observed hypocenter range, however, may be due to sparser station distribution in the latter study and resulting increased inaccuracy in the hypocenter depth determinations compared with the earlier study, but some of this increase in aftershock depths is likely to be real. In any case, based on the results of these studies, we have chosen to annotate earthquakes as potential nuclear test aftershocks if they occur within a boundary drawn 10 km outside of the boundaries of the individual testing areas at NTS; this boundary is depicted by the shaded region in figure 1. This choice should be considered arbitrary until the results of ongoing research improves our understanding of the temporal and spatial distribution of nuclear test aftershocks.

Underground nuclear testing at the NTS began with tunnel explosions in 1957. Although above ground testing occurred at NTS beginning in 1951, it is assumed that these events did not produce aftershocks because of their low yield and poor seismic coupling to the earth. For this reason, we compare maps of seismicity for this region showing pre- and post-1957 underground testing in figures 11 and 12. The region around NTS exhibits low level seismicity before underground testing, but earthquakes are distributed throughout the area. Many of these events are greater than magnitude 3, which is probably the minimum level of location and detection for the regional stations that existed at that

time. Note that all announced nuclear tests (above-ground and underground) have been removed from the figures and listed in Appendix C. These data were obtained from the following sources: Griggs and Press (1961), the U.S. Department of Commerce (1963a, b), Springer and Kinnaman (1971, 1975), Zander and Araskog (1973), NOAA (1982), the U.S. Department of Energy (1985), Lawrence Livermore Laboratory (LLL, written commun.), and ISC.

SIGNIFICANT EARTHQUAKES

A number of major earthquakes ($M \geq 6.5$) have occurred in the Great Basin that are outside of this study area. These events are significant, however, because they occur within the Great Basin or along the province boundaries. For this reason we list them in the table below, where M denotes Richter magnitude and MM denotes Modified Mercalli scale.

Date	Name or region	Location	M	Intensity (MM)
09 Jan 1857	Fort Tejon	[1]35.0°N 119.0°W	[2]8.25	[2]IX
26 Mar 1872	Owens Valley	[1]36.5°N 118.0°W	[3]8.25	[4]XI
21 Dec 1932	Cedar Mountain	[4]38.7°N 117.8°W	[4]7.3	[4]X
21 Jul 1952	Kern County	[5]35.0°N 119.0°W	[5]7.7	[5]XI
06 Jul 1954	Rainbow Mountain	[4]39.4°N 118.5°W	[6]6.8	[6]IX
24 Aug 1954	Rainbow Mountain	[4]39.4°N 118.5°W	[6]6.8	[6]VIII
16 Dec 1954	Fairview Peak	[4]39.3°N 118.2°W	[4]7.2	[5]X
16 Dec 1954	Dixie Valley	[7]39.8°N 118.1°W	[6]6.9	[1]X

Data Sources:

(1) Coffman and von Hake (1973)
(2) Agnew and Sieh (1978)
(3) Oakeshott and others (1972)
(4) Slemmons and others (1965)
(5) Richter (1958)
(6) Ryall and Priestley (1975)
(7) Romney (1957)
(8) Askew and Algermissen (1983)

Another significant earthquake and aftershock series, although outside this study area, occurred in the Clover Mountains near the Nevada-Utah border in 1966 (Boucher and others, 1967). This event is significant because it occurs within the East-West seismic zone with dextral strike-slip on a north trending fault (Smith and Lindh, 1978; Rogers and others, 1983; Wallace and others, 1983) and, thus, is similar in notable respects to much of the microseismicity that occurs in this region (Rogers and others, 1987). The main shock had several reported magnitudes $M_L = 5.7 - 6.1$ (BRK), $M_L = 6.0$ (PAS), and $m_b = 5.6$ (USCGS). At the peak of the aftershock series, more than 8,000 events were recorded per day (Boucher and others, 1967). Relocations of some events in the aftershock series have been conducted by Beck (1970) and Rogers and others (1983). In the latter study, a joint hypocenter relocation was conducted using a selected set of the aftershocks and the main shock. These relocations are included in this report.

Finally, a notable earthquake occurred in Death Valley in 1908. Several magnitudes have been estimated for this event ($M_S = 5.7$ (BRP), $M = 6.5$ (DMG)). This event is the closest earthquake, of significant size, to the proposed repository at Yucca Mountain.

REMARKS

Before data in this catalog can be used to calculate the probabilistic seismic hazard in the SGB, three significant factors must be taken inot account: 1) correction of the catalog for incompleteness; 2) revision of magnitudes reported by California observatories; and 3) correction or removal of earthquakes induced by either nuclear explosions or the impoundment of Lake Mead. Corrections for incompleteness are required to accurately compute the rate of earthquake occurrence for the SGB region. In addition, earthquake occurrence rates for this region could be overestimated because some historical earthquake magnitudes (M_L) may have been estimated too high as pointed out by Rogers and others (1987). Occurrence rates might also be misinterpreted due to the effects of induced seismicity from nuclear tests and the impoundment of Lake Mead. These factors need to be resolved before a comprehensive seismic hazard analysis can be completed.

REFERENCES CITED

Agnew, D. C., and Sieh, K. E., 1978, A documentary study of the felt effects of the great California earthquake of 1857: Seismological Society of America Bulletin, v. 68, no. 6, p. 1717–1729.

Askew, Bonny, and Algermissen, S. T., 1983, An earthquake catalog for the Basin and Range Province, 1803–1977: U.S. Geological Survey Open-File Report 83-86, 42 p., 3 sheets.

Baker, R. G., 1970, Determining magnitude from *Lg*: Seismological Society of America Bulletin, v. 60, no. 6, p. 1907–1919.

Beck, P. J., 1970, The southern Nevada-Utah border earthquakes August to December, 1966: Salt Lake City, Utah, University of Utah Master's thesis, 62 p.

Coffman, J. L., and von Hake, C. A., 1973, Earthquake history of the United States: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, NOAA EDS Pub. 41-1/COM 74 500 35, 208 p.

Fischer, F. G., Papanek, P. J., and Hamilton, R. M., 1972, The Massachusetts Mountain earthquake of 5 August 1971 and its aftershocks, Nevada Test Site: U.S. Geological Survey Report USGS-474-149; available from U.S. Department of Commerce, National Technical Information Service, Springfield VA 22161, NTS-238, 20 p.

Gutenberg, B., and Richter, C. F., 1956, Earthquake magnitude, intensity, energy, and acceleration: Seismological Society of America Bulletin, v. 46, no. 2, p. 131, 137.

Griggs, D., and Press, F., 1961, Probing the Earth with nuclear explosions: Journal of Geophysical Research, v. 66, p. 237.

Hamilton, R. M., Smith, B. E., Fischer, F. G., and Papanek, P. J., 1971, Seismicity of the Pahute Mesa area, Nevada Test Site, 8 December 1968 through 31 December 1971: U.S. Geological Survey Report USGS-474-138; available from U.S. Department of Commerce, National Technical Information Service, Springfield, VA 22161, 170 p.

Howard, Nancy W., written commun., Lawrence Livermore Laboratory, Livermore, California.

Lee, W. H. K., and Lahr, J. C., 1975, Hypo 71 (revised): a computer program for determining hypocenter, magnitude, and first motion pattern of local earthquakes: U.S. Geological Survey Open-File Report 75-311, 116 p.

National Oceanic and Atmospheric Administration, 1982, The NOAA-NGDC earthquake data file, period of coverage, 09 October 1916 to 28 June 1979: Environmental Data Service, Boulder, Colorado.

Nuttli, O. W., and Zollweg, J. E., 1974, The relation between felt area and magnitude for central United States earthquakes: Seismological Society of America Bulletin, v. 64, no. 1, p. 82.

Oakeshott, G. B., Greesfelder, R. W., and Kahle, J. E., 1972, One hundred years later: California Geology, v. 25, no. 3, p. 55–61.

Papanek, P. J., and Hamilton, R. M., 1972, A seismicity study along the northern Death Valley-Furnace Creek fault zone, California-Nevada boundary: U.S. Geological Survey Report USGS-474-141; available from U.S. Department of Commerce, National Technical Information Service, Springfield, VA 22161, 41 p.

Richter, C. F., 1958, Elementary geology: San Francisco, California, W. H. Freeman and Company, 768 p.

Rogers, A. M., Harmsen, S. C., and Carr, W. J., 1981, Southern Great Basin seismological data report for 1980 and preliminary data analysis: U.S. Geological Survey Open-File Report 81-1086, 148 p.

Rogers, A. M., Harmsen, S. C., Carr, W. J., and Spence, W. J., 1983, Southern Great Basin seismological data report for 1981 and preliminary data analysis: U.S. Geological Survey Open-File Report 83-669, 148 p.

Rogers, A. M., Harmsen, S. C., and Meremonte, M. E., 1987, Evaluation of the seismicity of the southern Great Basin and its relationship to the tectonics framework of the region: U.S. Geological Survey Open-File Report (in review).

Roger, A. M., Harmsen, S. C., Herrmann, R. B., and Meremonte, M. E., 1987, A study of ground motion attenuation in the southern Great Basin, Nevada-California, using several techniques for estimates of Q_s, log A_o, and coda Q: Journal of Geophysical Research, v. 92, no. B5, p. 3527-3540.

Rogers, A. M., and Lee, W. H. K., 1976, Seismic study of earthquakes in the Lake Mead, Nevada-Arizona region: Seismological Society of America Bulletin, v. 66, no. 5, p. 1657–1681.

Rogers, A. M., Woulett, G. M., and Covington, P. A., 1977, Seismicity of the Pahute Mesa area, Nevada Test Site, 8 October 1975 to 30 June 1976: U.S. Geological Survey Report USGS-474-184; available from National Technical Information Service, Springfield, VA 22161, 63 p.

Romney, C., 1957, Seismic waves from the Dixie Valley-Fairview Peak earthquakes: Seismological Society of America Bulletin, v. 47, p. 301–320.

Ryall, A., and Priestly, K., 1975, Seismicity, secular strain, and maximum magnitude in the Excelsior Mountains area, western Nevada and eastern California: Geological Society of America Bulletin, v. 86, p. 1585–1592.

Slemmons, D. B., Jones, A. E., and Gimlett, J. I., 1965, Catalog of Nevada earthquakes, 1852–1960: Seismological Society of America Bulletin, v. 55, no. 2, p. 519–565.

Smith, B. E., Hamilton, R. M., and Jackson, W. H., 1971, Seismicity of the central Nevada test area, 26 September 1969 – 1 October 1970: U.S. Geological Survey Report USGS-474-109; available from U.S. Department of Commerce, National Technical Information Service, Springfield, Va 22161, 27 p.

Smith, R. B. ,and Lindh, A. G., 1978, Fault plane solutions of the western United States: a compilation *in* Smith, R. B., and Eaton, G. P., eds., Cenozoic tectonics and regional geophysics of the western cordillera: Geological Society of America Memoir 152, p. 107–109.

Springer, D. L., and Kinnaman, R. L., 1971, Seismic source summary for U.S. underground nuclear explosions, 1961–1970: Seismological Society of America Bulletin, v. 61, no. 4, p. 1073–1098.

Springer, D. L., and Kinnaman, R. L., 1975, Seismic source summary for U.S. underground nuclear explosions, 1971–1973: Seismological Society of America Bulletin, v. 65, no. 2, p. 343–349.

U.S. Department of Commerce, 1963, World-wide standard station seismic measurements, project 173-7, Little Feller I: U.S. Department of Commerce, Coast and Geodetic Survey, Washington 25, D.C., 4 p.

U.S. Department of Commerce, 1963, World-wide standard station seismic measurements, project 173-7, Little Feller II: U.S. Department of Commerce, Coast and Geodetic Survey, Washington 25, D.C., 3 p.

U.S. Department of Energy, 1985, Announced United States nuclear events; July 1945 through December 1984: U.S. Department of Energy, Nevada Operations Office, NVO–209 (rev. 5), 73 p.

Vortman, L. J., written commun., Sandia National Laboratories, Alburquerque, New Mexico.

Wallace, T. C., Helmberger, D. V., and Engen, G. R., 1983, Evidence of tectonic release from underground nuclear explosions in long-period P waves: Seismological Society of America Bulletin, v. 73, n. 2, p. 593–613.

Zander, I., and Araskog, R., 1973, Nuclear explosions 1945–1972 basic data: FOA 4 Report, A4505-A1: The Research Institute of National Defense, Stockholm, Sweden, 55 p.

Table 1.—List of data sources

Code	Source
ALX	Racine, D., O'Donnell, A., Burnetti, J., Klouda, P., Marshall, M., Tobin, E., Megyesi, I., and Wagner, R., 1979, A seismicity study of the southwest region of the United States, 01 December 1961 to 01 January 1964: U.S. Army Corps of Engineers, Teledyne Geotech, Alexandria Laboratories, 314 Montgomery Street, Alexandria, VA 22314, 33 p.
ANT	U.S. Department of Energy, 1985, Announced United States nuclear events; July 1945 through December 1984: U.S. Department of Energy, Nevada Operations Office, NVO–209 (rev. 5), 73 p.
BRK	University of California, Berkeley, California, Seismographic Station, B. A. Bolt, Director.
BRP	Askew, Bonny, and Algermissen, S. T., 1983, An earthquake catalog for the Basin and Range Province, 1803–1977: U.S. Geological Survey Open-File Report 83–86, 41 p., 3 sheets.
	Askew, Bonny, and Algermissen, S. T., 1983, written commun., U.S. Geological Survey, Golden, Colorado.
CGS	U.S. Department of Commerce, 1963, World-wide standard station seismic measurements, project 173-7, Little Feller I: U.S. Department of Commerce, Coast and Geodetic Survey, Washington 25, D.C., 4 p.
	U.S. Department of Commerce, 1963, World-wide standard station seismic measurements, project 173-7, Little Feller II: U.S. Department of Commerce, Coast and Geodetic Survey, Washington 25, D.C., 3 p.
CVH	Coffman, J. L., and von Hake, C. A., 1973, Earthquake history of the United States: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, NOAA EDS Pub. 41-1/COM 74 500 35, 208 p.
DMG	Real, C. R., Toppozada, T. R., and Parke, D. L., 1978, Earthquake epicenter map of California, 1900 through 1978: California Division of Mines and Geology, Map sheet 49.
ERS	Hays, W. W., Algermissen, S. T., Espinosa, A. F., Perkins, D. M., and Rinehart, W. A., 1975, Catalog of U. S. earthquakes *in* Guidelines for developing design earthquake response spectra: Department of the Army, Construction Engineering Research Laboratory, Technical Report M-114, p. 155–314.
FPH	Fischer, F. G., Papanek, P. J., and Hamilton, R. M., 1972, The Massachusetts Mountain earthquake of 5 August 1971 and its aftershocks, Nevada Test Site: U.S. Geological Survey Report USGS-474-149; available from U.S. Department of Commerce, National Technical Information Service, Springfield VA 22161, NTS-238, 20 p.
GDY	Gawthrop, William., and Dewey, J. W., 1980, written commun., U.S. Geological Survey, Golden, Colorado.

Table 1.—List of data sources—Continued

Code	Source
GPS	Griggs, D., and Press, F., 1961, Probing the Earth with nuclear explosions: Journal of Geophysical Research, v. 66, p. 237.
HSF	Hamilton, R. M., Smith, B. E., Fischer, F. G., and Papanek, P. J., 1971, Seismicity of the Pahute Mesa area, Nevada Test Site, 8 December 1968 through 31 December 1970: U.S. Geological Survey Report USGS-474-138; available from U.S. Department of Commerce, National Technical Information Service, Springfield, VA 22161, 170 p.
ISC	International Seismological Centre, Kew, England, UK.
KKG	King, K. W., Bayer, K. C., and Brockman, S. R., 1971, Earthquakes on and around the Nevada Test Site, 1950–1971: U.S. Atomic Energy Commision Report CGS-746-12; available from U.S. Department of Commerce, National Technical Information Service, Springfield, VA 22161, 32 p.
	Bayer, K. C., Mallis, R. R., and King, K. W., 1972, Earthquakes recorded by a seismograph network located in the southern Nevada region, January 1 to December 22, 1971: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, NOAA Technical Memorandum ERL ESL-16, 43 p.
	Bayer, K. C., 1973a, Seismic data Report, southern Nevada region, December 22, 1971 – December 31, 1972: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, NOAA Technical Memorandum ERL ESL-24, 240 p.
	Bayer, K. C., 1973b, A preliminary seismicity study of the southern Nevada region, quarterly report, January – March 1973: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, NOAA Technical Memorandum ERL ESL-26, 153 p.
	Bayer, K. C., 1974, A preliminary seismicity study of the southern Nevada region, quarterly report, April – June 1973: U.S. Geological Survey, U.S. Atomic Energy Commission Report NVO-474-1; available from U.S. Department of Commerce, National Technical Information Service, Springfield, VA 22161, 115 p.
LLL	Howard, Nancy W., 1980, written commun., Lawrence Livermore Laboratory, Livermore, California.
PAS	California Institute of Technology, Pasadena, California, Seismological Laboratories, L. K. Hutton, Director.
PDX	National Oceanic and Atmospheric Administration, 1982, The NOAA-NGDC earthquake data file, period of coverage, 09 October 1916 to 28 June 1979: Environmental Data Service, Boulder, Colorado.

Table 1.—List of data sources—Continued

Code	Source
PHM	Papanek, P. J., and Hamilton, R. M., 1972, A seismicity study along the northern Death Valley-Furnace Creek fault zone, California-Nevada boundary: U.S. Geological Survey Report USGS-474-141; available from U.S. Department of Commerce, National Technical Information Service, Springfield, VA 22161, 41 p.
ROG	Rogers, A. M., Harmsen, S. C., Carr, W. J., and W. J. Spence, 1983, Southern Great Basin seismological data report for 1981 and preliminary analysis: U.S. Geological Survey Open-File Report 83-669, 240 p.
ROW	Rogers, A. M., Woulett, G. M., and Covington, P. A., 1977, Seismicity of the Pahute Mesa area, Nevada Test Site, 8 October 1975 to 30 June 1976: U.S. Geological Survey Report USGS-474-184; available from National Technical Information Service, Springfield, VA 22161, 63 p.
RWL	Rogers, A. M. and Lee, W. H. K., 1976, Seismic study of earthquakes in the Lake Mead, Nevada-Arizona region: Seismological Society of America Bulletin, v. 66, no. 55, p. 1657–1681.
RYC	Ryall, F. D., 1980, written commun., Seismological Laboratory, University of Nevada, Reno, Nevada.
RYN	University of Nevada, Seismological Laboratory, Reno:
	University of Nevada, June 1971, Bulletin of the Seismological Laboratory for the period October 1 to December 31, 1970: Reno, Nev., Mackay School of Mines - Nevada Bureau of Mines, 38 p.
	University of Nevada, January 1972, Bulletin of the Seismological Laboratory for the period January 1 to March 31, 1971: Reno, Nev., Mackay School of Mines - Nevada Bureau of Mines, 36 p.
	University of Nevada, May 1972, Bulletin of the Seismological Laboratory for the period April 1 to June 30, 1971: Reno, Nev., Mackay School of Mines - Nevada Bureau of Mines, 35 p.
	University of Nevada, April 1973, Bulletin of the Seismological Laboratory for the period July 1 to September 30, 1971: Reno, Nev., Mackay School of Mines - Nevada Bureau of Mines, 43 p.
	University of Nevada, June 1973, Bulletin of the Seismological Laboratory for the period October 1 to December 31, 1971: Reno, Nev., Mackay School of Mines - Nevada Bureau of Mines, 48 p.
	Ryall, F. D., ed., June 1976, Bulletin of the Seismological Laboratory for the period January 1 - June 30, 1972: Reno, Nev., Mackay School of Mines - Nevada Bureau of Mines, 83 p.
	Ryall, F. D., ed., June 1976, Bulletin of the Seismological Laboratory for the period July 1 - December 31, 1972: Reno, Nev., Mackay School of Mines - Nevada Bureau of Mines, 57 p.

Table 1.—List of data sources—Continued

Code	Source
	Ryall, F. D., ed., June 1976, Bulletin of the Seismological Laboratory for the period January 1 - June 30, 1973: Reno, Nev., Mackay School of Mines - Nevada Bureau of Mines, 65 p.
	Ryall, F. D., ed., June 1976, Bulletin of the Seismological Laboratory for the period July 1 - December 31, 1973: Reno, Nev., Mackay School of Mines - Nevada Bureau of Mines, 49 p.
	Smith, G. M., ed., June 1976, Bulletin of the Seismological Laboratory for the period January 1 - June 30, 1974: Reno, Nev., Mackay School of Mines - Nevada Bureau of Mines, 39 p.
	Smith, G. M., ed., June 1976, Bulletin of the Seismological Laboratory for the period July 1 - December 31, 1974: Reno, Nev., Mackay School of Mines - Nevada Bureau of Mines, 43 p.
	Smith, G. M., and Ryall, F. D., eds., November 1980, Bulletin of the Seismological Laboratory for the period January 1, 1975 to December 31, 1979: Reno, Nev., Mackay School of Mines, 84 p.
SPK	Springer, D. L., Kinnaman, R. L., 1971, Seismic source summary for U.S. underground nuclear explosions, 1961–1970: Seismological Society of America Bulletin, v. 61, no. 4, p. 1073–1098.
	Springer, D. L., Kinnaman, R. L., 1975, Seismic source summary for U.S. underground nuclear explosions, 1971–1973: Seismological Society of America Bulletin, v. 65, no. 2, p. 343–349.
SHJ	Smith, B. E., Hamilton, R. M., and Jackson, W. H., 1971, Seismicity of the central Nevada test area, 26 September 1969 – 1 October 1970: U.S. Geological Survey Report USGS-474-109; available from U.S. Department of Commerce, National Technical Information Service, Springfield, Va 22161, 27 p.
USE	Murphy, L. M. and Cloud, W. K., 1952, United States earthquakes [annual volume]: U.S. Department of Commerce, U.S. Coast and Geodetic Survey, serial no. 773, 112 p.
UTH	Arabasz, W. J., Smith, R. B., and Richins, W. D., eds., 1979, Earthquake studies in Utah, 1850–1978: University of Utah Seismograph Stations, Department of Geology and Geophysics, University of Utah, 552 p.
ZAK	Zander, I., and Araskog, R., 1973, Nuclear explosions 1945–1972 basic data, FOA 4 Report, A4505-A1: The Research Institute of National Defense, Stockholm, Sweden.

Table 2.—Priority list for multiply reported hypocenters

Code[1]	Type of source and extent of operation or listing
HSF	Local network which monitored the Pahute Mesa area from 08 December 1968 to 31 December 1970.
SHJ	Local network which monitored the Central Nevada Test Area from 26 September 1969 to 01 October 1970.
PHM	Local network which monitored the northern Death Valley–Furnace Creek fault zone along the California/Nevada border from 01 March 1970 to 26 January 1971.
FPH	An in-depth study of the Massachusett's Mountain earthquake of 05 August 1971 and its aftershocks (local network operated by the U.S. Geological Survey).
ROW	Local network which monitored the Pahute Mesa area from 08 October 1975 to 30 June 1976.
KKG	Local network which operated from 01 January 1971 to 30 June 1973. Before 01 January 1971, seismic data reported from other seismological catalogs (for epicenters located north of 38° N., RYN's location was given higher priority than KKG's).
RWL	Local network which monitored Lake Mead seismicity in the Boulder Basin area from 06 July 1972 to 05 December 1973. Included in the seismicity report, was a catalog of Lake Mead historical seismicity.
ROG	Catalog of selected relocated joint hypocenter events for the Clover Mountains earthquake sequence in 1966.
RYN	Regional network operating northwest of the SGB network from 01 January 1970 to present (RYN's location was given a higher priority than BRK's or PAS's after 1974).
GDY	Catalog of selected relocated joint hypocenter events from 1931 to 1974.
BRK	Regional stations operating in California from the early 1900's to present (hypocenters were given higher priority than RYN's from 01 January 1970 to the beginning of 1975: during this period, BRK included phase data from RYN network and RYN did not determine a focal depth).
PAS	Regional stations operating in southern California from the early 1900's to present (hypocenters were given higher priority than RYN's from 01 January 1970 to the beginning of 1975: during this period, PAS included phase data from RYN network and RYN did not determine a focal depth).
UTH	Regional stations operating in Utah since 1974.
BRP	Historical catalog collecting data from other sources for the period ranging from 1803 to 1977.

Table 2.—Priority list for multiply reported hypocenters—Continued

Code[1]	Type of source and extent of operation or listing
DMG	California earthquake epicenter map and catalog from 1900–1974 of $M \geq 4.0$ (where M denotes Richter magnitude) or Modified Mercalli (MM) intensity ≥ 5.
RYC	Historical catalog collecting data reported from other seismological catalogs, bulletins, and newspapers covering a period from 1852 to 1963 (this catalog is an updated version of a historical catalog published by Slemmons and others, 1965).
PDX	Termed the "NOAA Catalog," it is a listing of other seismological catalogs from the early 1900's to present.
USE	Annual publication of felt earthquakes in the United States and nearby territories since 1928.
CVH	Publication of prominent historical U.S. earthquakes from the 1600's up through 1970 with MM intensities greater than or equal to V.
ERS	Catalog of historical U.S. earthquakes with magnitudes equal to or exceeding MM intensity IV up through 1970.
ALX	Regional network which operated across the Western United States from 01 December 1961 to 01 January 1964.
ISC	International catalog publishing seismological data from the early 1900's to present.

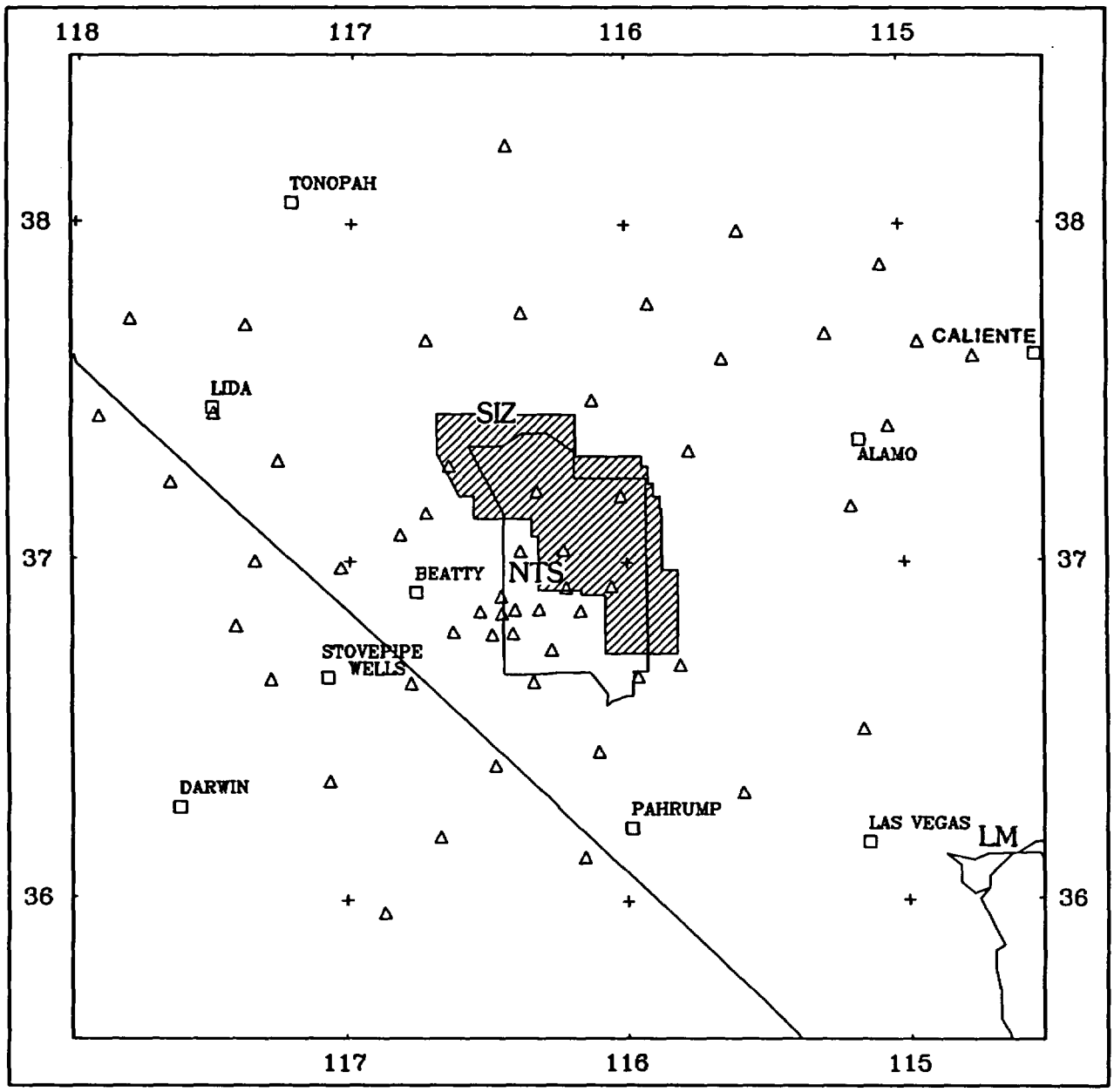
[1]For code source reference see table 1.

Table 3.—Priority list for multiply reported magnitudes

Code+	Type of source and primary magnitude recorded
HSF	Local network reporting duration magnitude (M_D)*.
SHJ	Local network reporting duration magnitude (M_D)*.
PHM	Local network reporting duration magnitude (M_D)*.
FPH	Local network reporting duration magnitude (M_D)*.
ROW	Local network reporting duration magnitude (M_D)*.
KKG	Local network reporting local magnitude (M_L Wood-Anderson) and (or) body-wave magnitude (m_b).
RWL	Local network in the Boulder Basin area which reported duration magnitude (M_D)*.
RYN	Regional network reporting local magnitude (M_L Wood-Anderson) until 1973. After that period, duration magnitude (M_D)* was reported.
UTH	Regional network reporting local magnitude (M_L Wood-Anderson).
BRK	Regional network reporting local magnitude (M_L Wood-Anderson).
PAS	Regional network reporting local magnitude (M_L Wood-Anderson).
PDX	Catalog listing various magnitudes including local magnitude (M_L Wood-Anderson), body-wave magnitude (m_b), and (or) surface wave magnitude (M_S).
BRP	Historical catalog which listed published magnitudes and, in some instances, computed other magnitudes (see section entitled magnitudes in text).
DMG	Historical catalog which listed Richter magnitude (M). Listed in the column marked "OTH".
ALX	Regional network which reported a type of m_{blg} magnitude. Listed in the column marked "OTH".
RYC	Historical catalog which listed magnitudes of unknown type. Listed in the column marked "OTH".
GDY	Catalog of selected relocated joint hypocenter events which listed magnitudes of unknown type. Listed in the column marked "OTH".
ISC	International catalog reporting local magnitude (M_L Wood-Anderson), body-wave magnitude (m_b), and (or) surface wave magnitude (M_S).
ERS	Historical catalog of U.S. earthquakes which listed various magnitudes but did not specify the type used in the earthquake listings. Listed in the column marked "OTH".

+For code source reference see table 1.

*M_D is an equivalent M_L magnitude.



SIZ – Zone of Potential Induced Seismicity;
NTS – Nevada Test Site; LM – Lake Mead;
△ – Seismograph Station; □ – City

0 20 40 60 80 100 KILOMETERS

Figure 1.–Map of the catalog area showing the southern Great Basin seismic network.

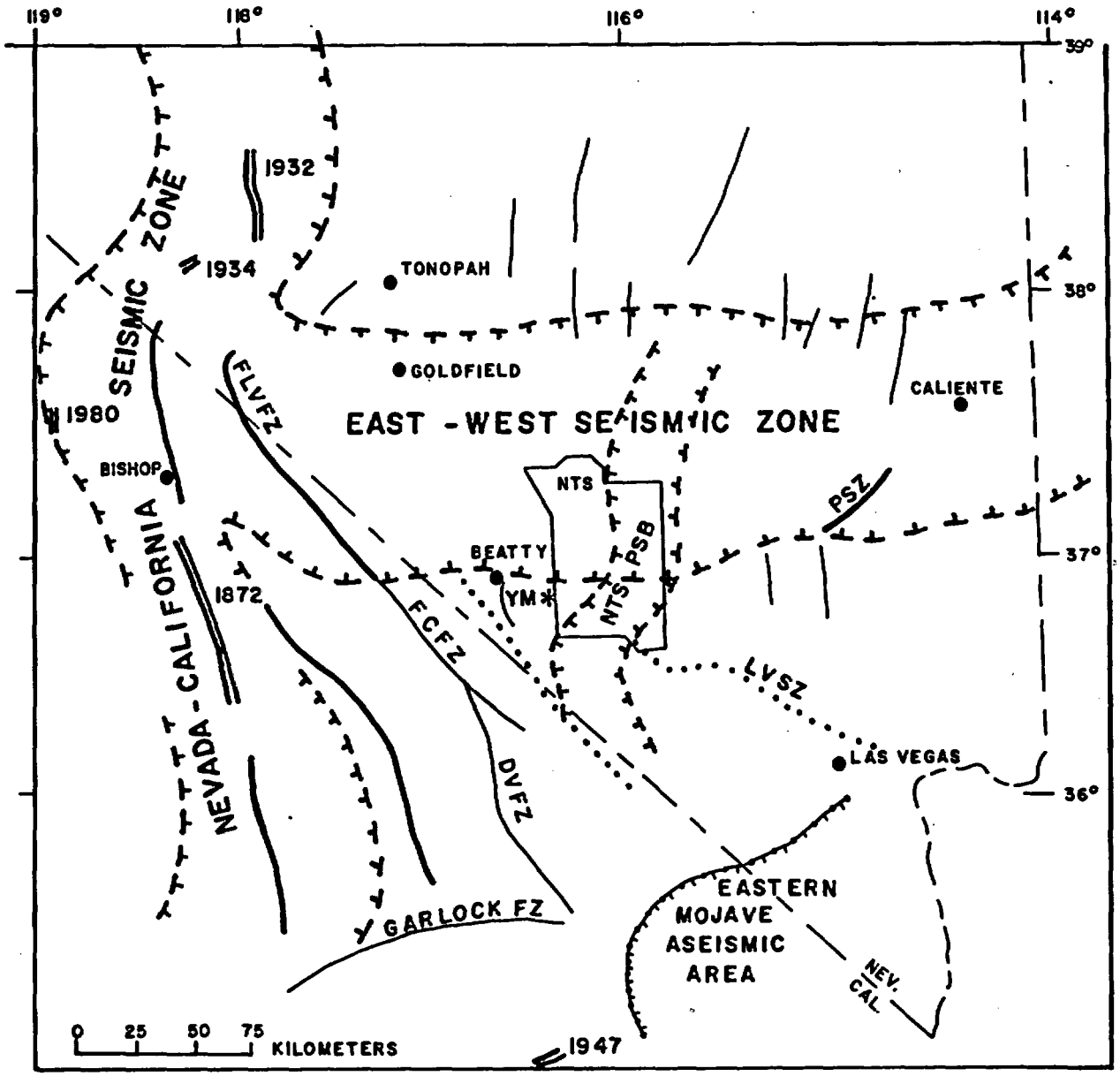


Figure 2.–Map of generalized seismic zones and tectonic features in the southern Great Basin.

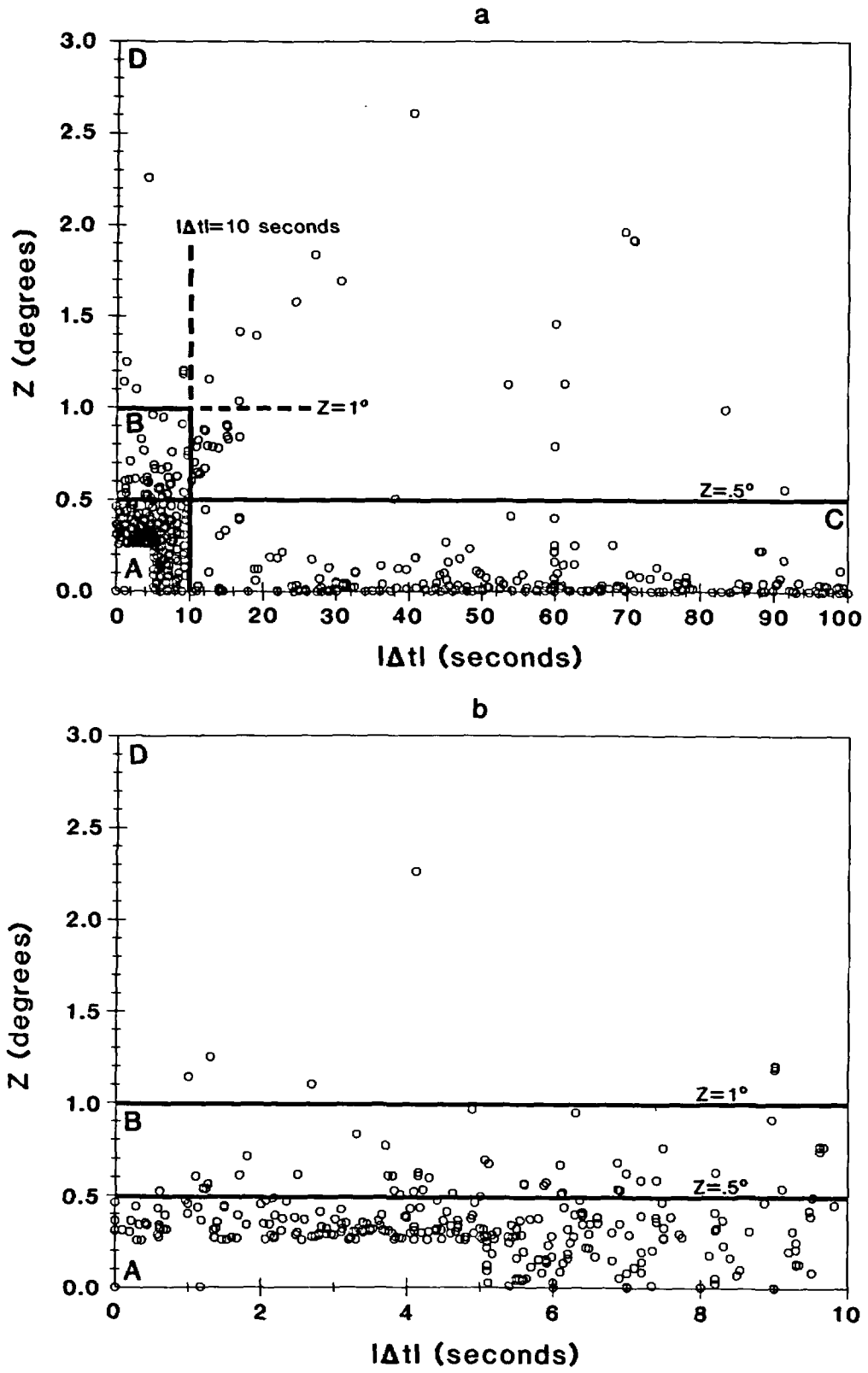
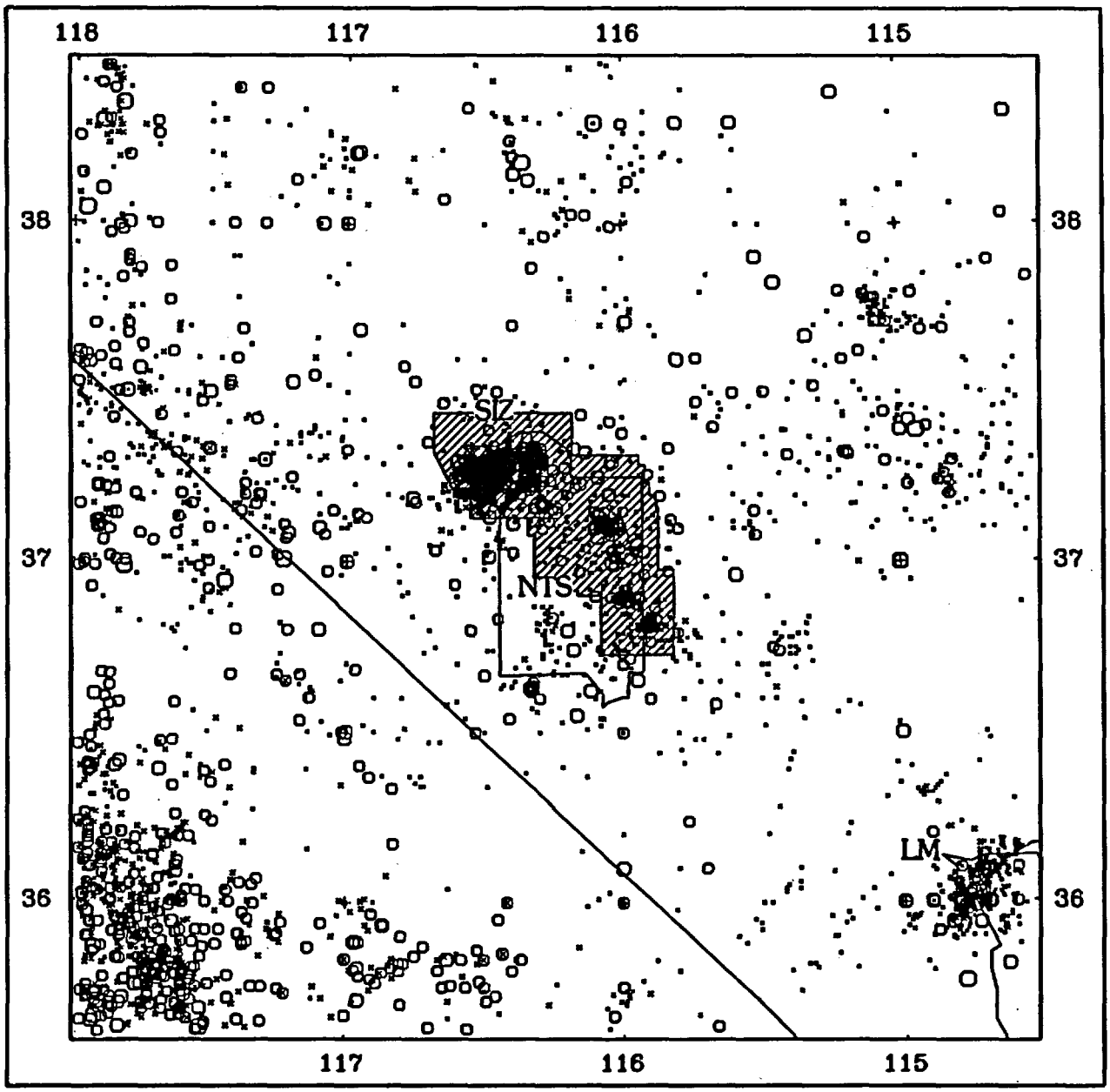


Figure 3.–a: Plot of distance Z versus $|\Delta t|$ showing the regions A, B, C, and D. b: Plot showing regions A, B, and D for $|\Delta t| \leq 10.0$ seconds. Note: Region A is void of the duplicates that satisfied the initial parameters during the merging process.



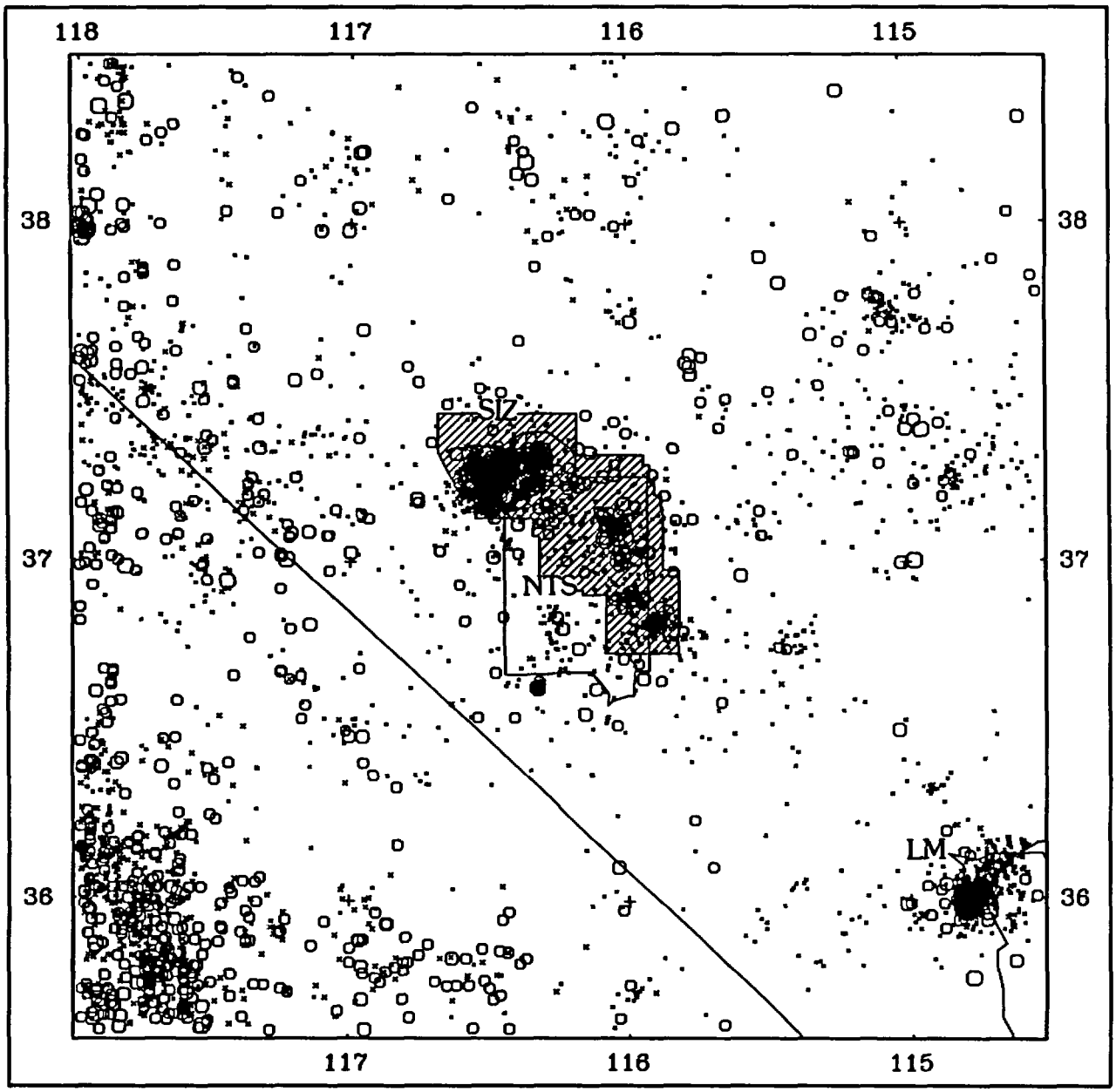
SIZ – Zone of Potential Induced Seismicity;
NTS – Nevada Test Site; LM – Lake Mead

SYMBOLS

·	0.00 <= MAGNITUDE < 2.00
*	2.00 <= MAGNITUDE < 3.00
o	3.00 <= MAGNITUDE < 4.00
O	4.00 <= MAGNITUDE < 5.00
O	5.00 <= MAGNITUDE < 8.00

0 20 40 60 80 100 KILOMETERS

Figure 4.–Map of the southern Great Basin catalog area showing the overall historical seismicity from 04 September 1868 to 29 July 1978 (original data).



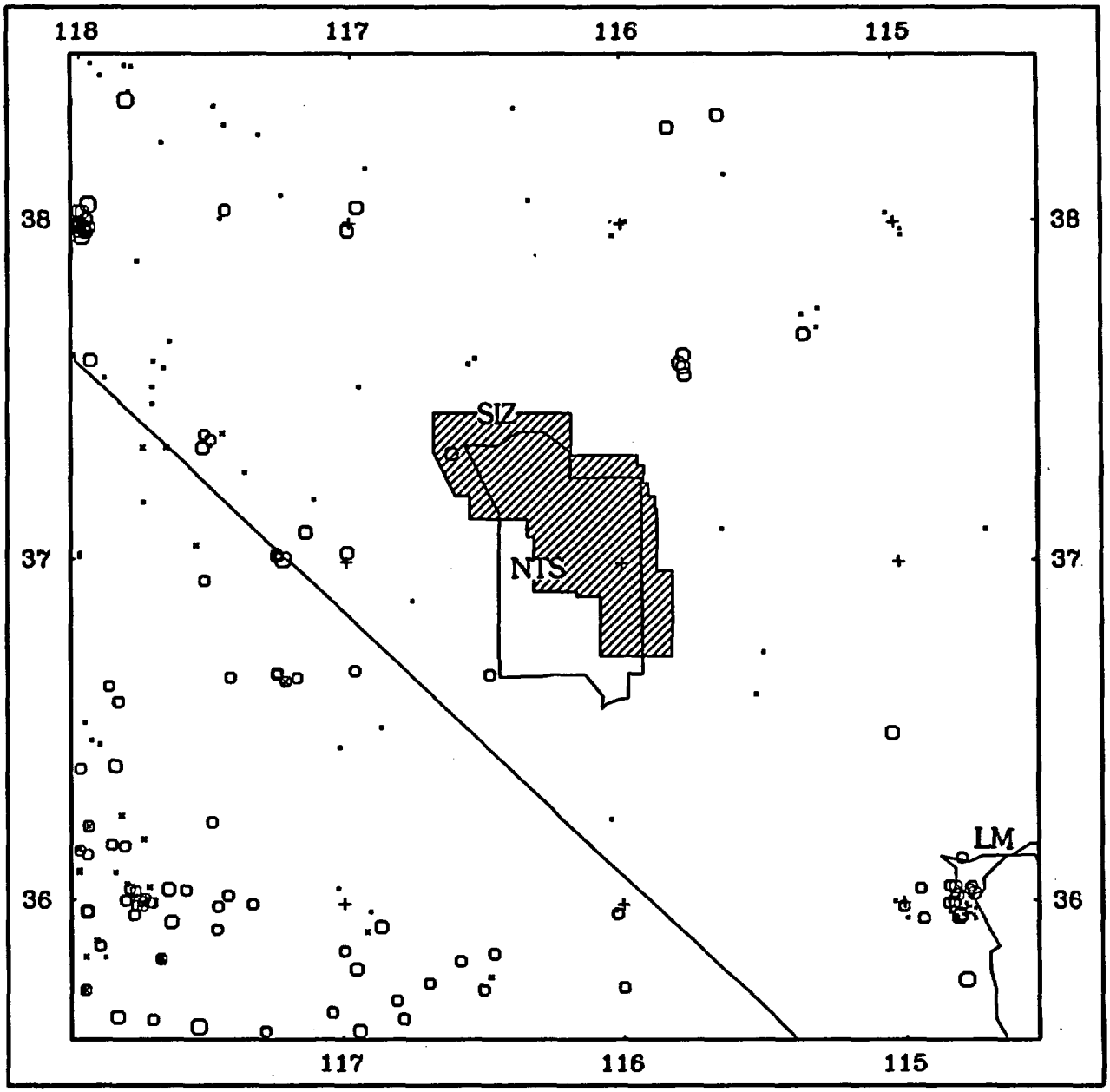
SIZ – Zone of Potential Induced Seismicity;
NTS – Nevada Test Site; LM – Lake Mead

SYMBOLS

·	0.00 <= MAGNITUDE	<	2.00
·	2.00 <= MAGNITUDE	<	3.00
o	3.00 <= MAGNITUDE	<	4.00
o	4.00 <= MAGNITUDE	<	5.00
o	5.00 <= MAGNITUDE	<	8.00

0 20 40 60 80 100 KILOMETERS

Figure 5.–Map of the southern Great Basin catalog area showing the overall historical seismicity from 04 September 1868 to 29 July 1978 (randomized data).



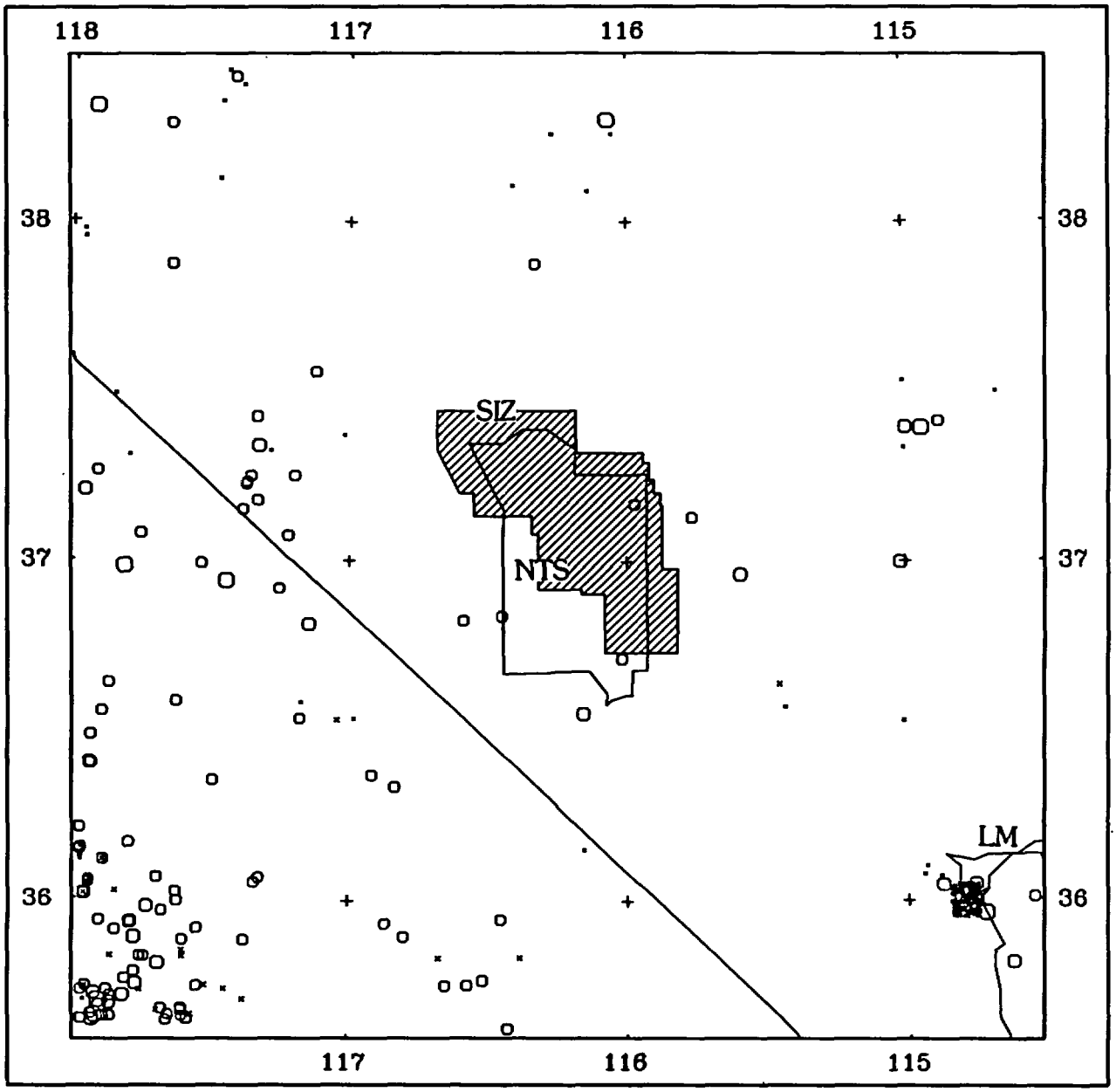
SIZ – Zone of Potential Induced Seismicity;
NTS – Nevada Test Site; LM – Lake Mead

SYMBOLS

·	0.00 <= MAGNITUDE	<	2.00
▪	2.00 <= MAGNITUDE	<	3.00
o	3.00 <= MAGNITUDE	<	4.00
O	4.00 <= MAGNITUDE	<	5.00
O	5.00 <= MAGNITUDE	<	6.00

0 20 40 60 80 100 KILOMETERS

Figure 6.–Map of the southern Great Basin catalog area showing the historical seismicity from 04 September 1868 through 1939 (randomized data).



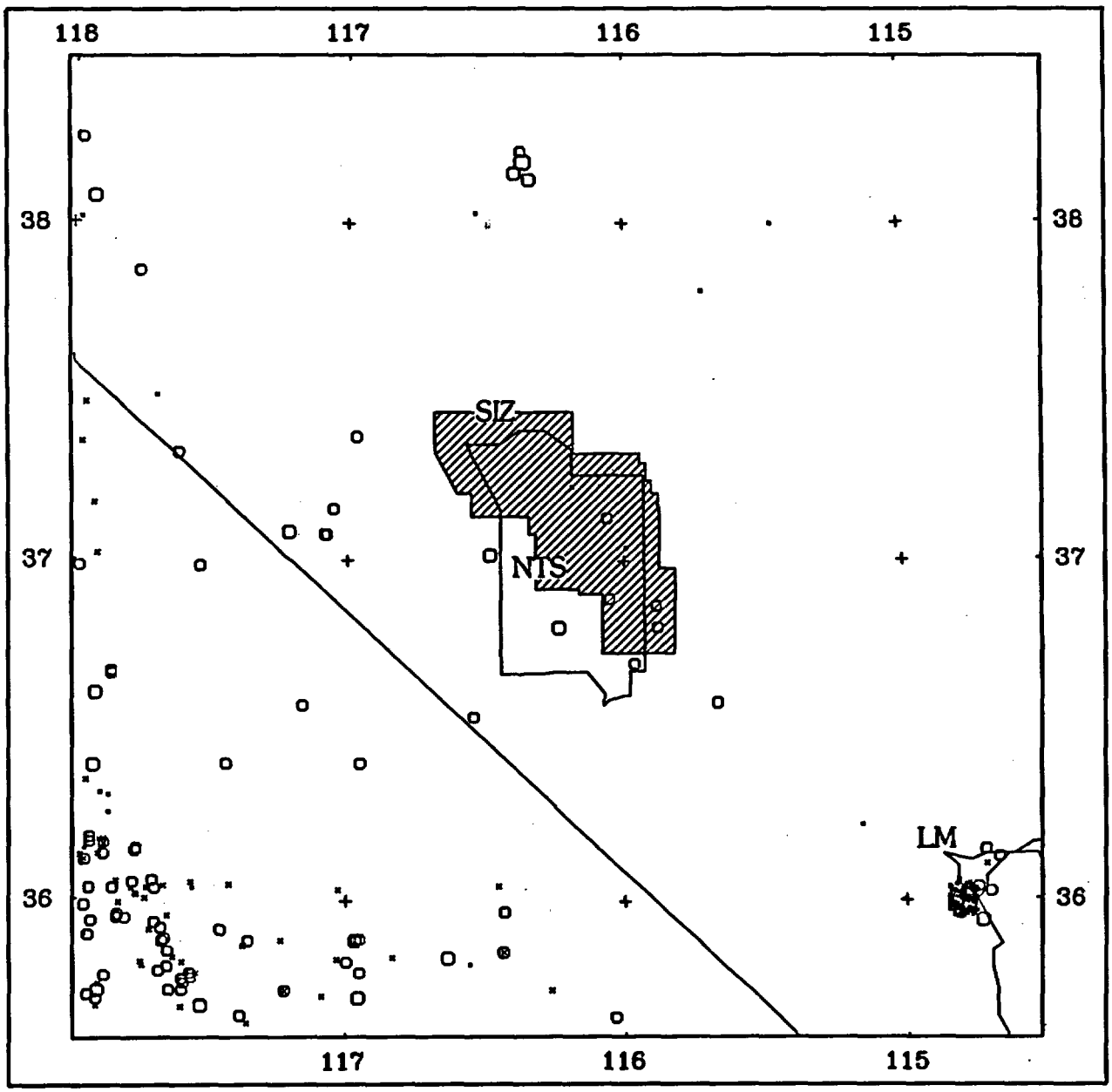
SIZ – Zone of Potential Induced Seismicity;
NTS – Nevada Test Site; LM – Lake Mead

SYMBOLS

·	0.00 <= MAGNITUDE	<	2.00
▪	2.00 <= MAGNITUDE	<	3.00
o	3.00 <= MAGNITUDE	<	4.00
O	4.00 <= MAGNITUDE	<	5.00
O	5.00 <= MAGNITUDE	<	8.00

0 20 40 60 80 100 KILOMETERS

Figure 7.–Map of the southern Great Basin catalog area showing the historical seismicity from 1940 through 1949 (randomized data).



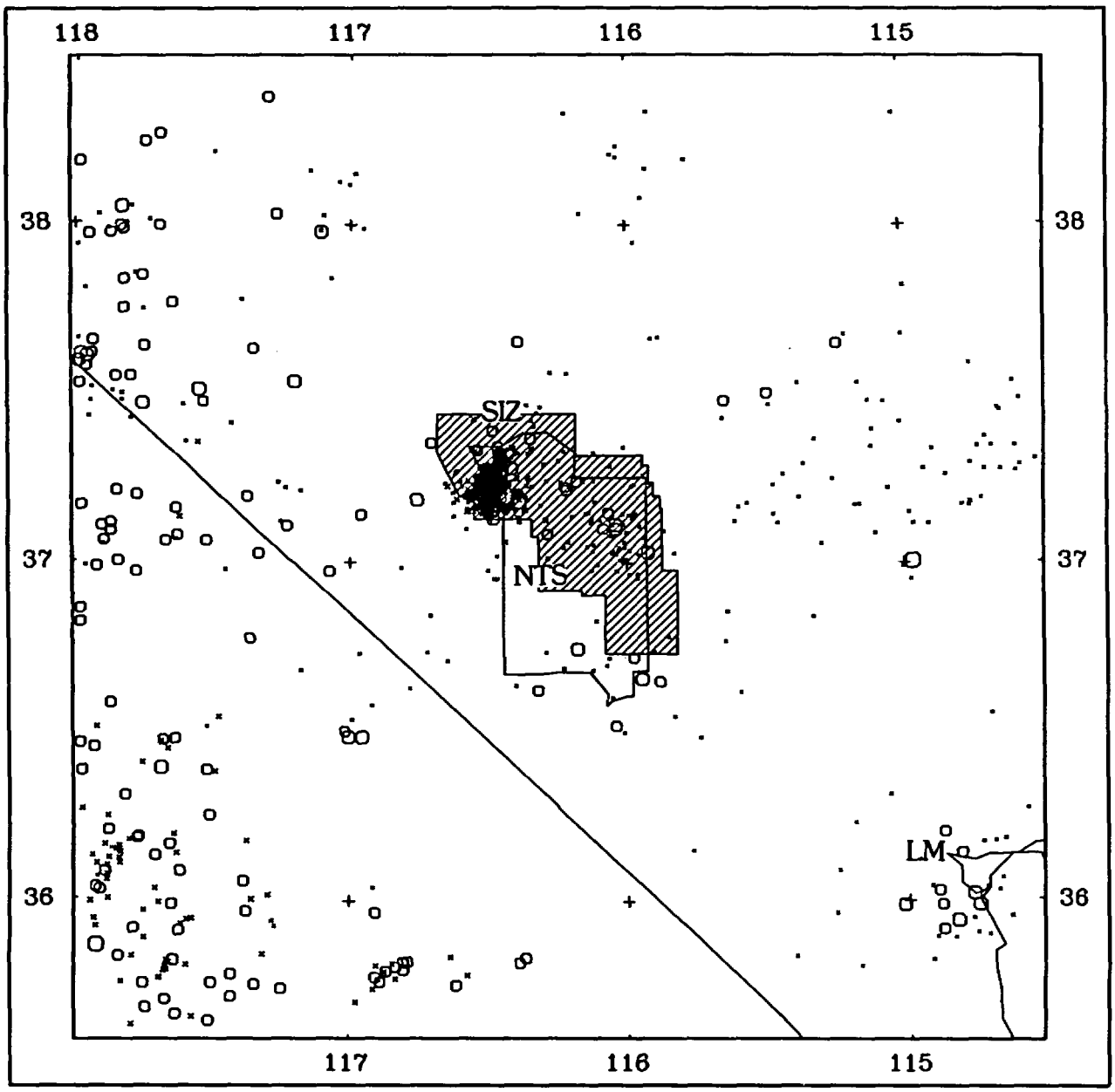
SIZ – Zone of Potential Induced Seismicity;
NTS – Nevada Test Site; LM – Lake Mead

SYMBOLS

·	0.00 <= MAGNITUDE	<	2.00
▪	2.00 <= MAGNITUDE	<	3.00
o	3.00 <= MAGNITUDE	<	4.00
O	4.00 <= MAGNITUDE	<	5.00
O	5.00 <= MAGNITUDE	<	8.00

0 20 40 60 80 100 KILOMETERS

Figure 8.–Map of the southern Great Basin catalog area showing the historical seismicity from 1950 through 1959 (randomized data).



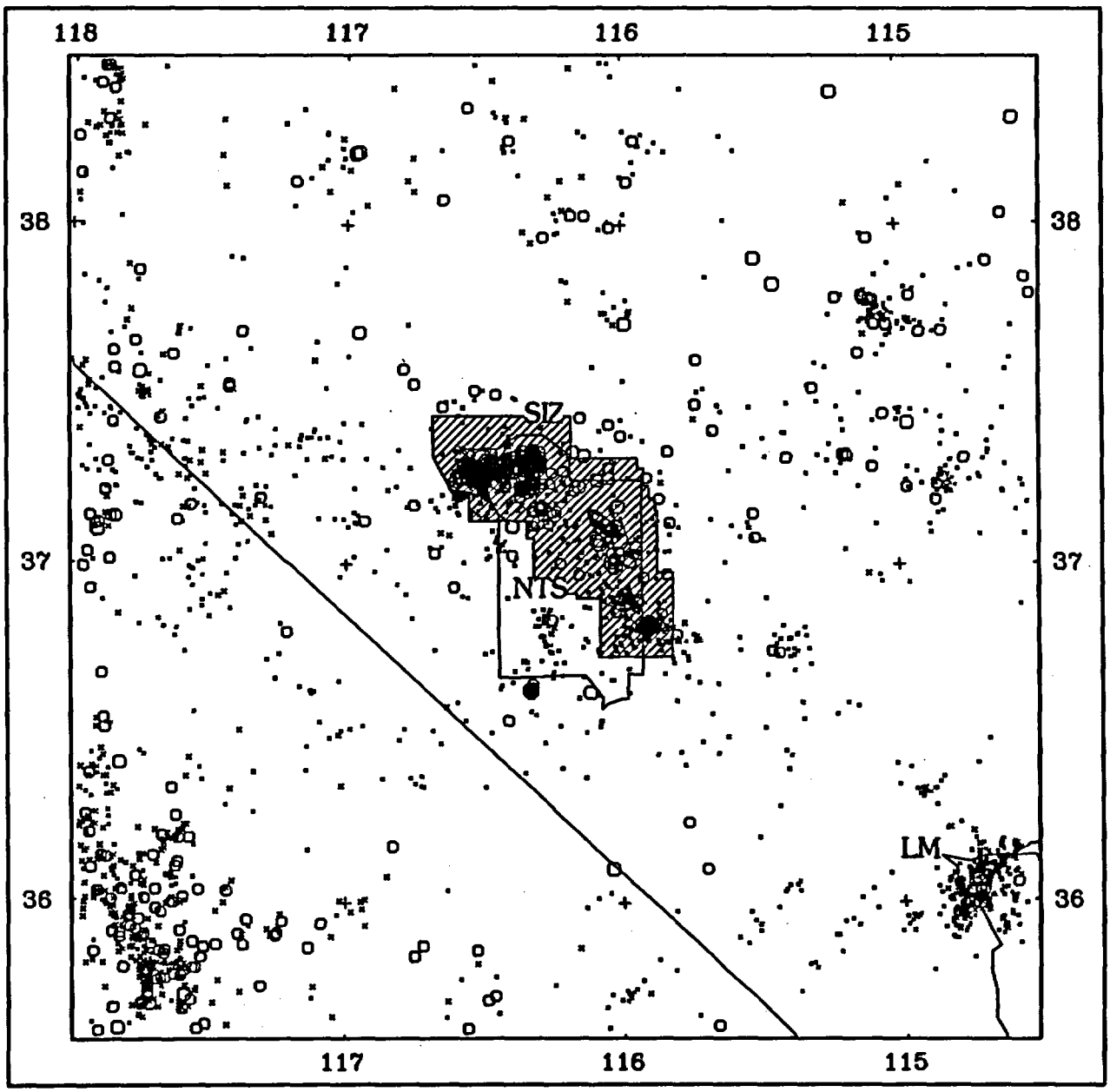
SIZ – Zone of Potential Induced Seismicity;
NTS – Nevada Test Site; LM – Lake Mead

SYMBOLS

·	0.00 <= MAGNITUDE	<	2.00
×	2.00 <= MAGNITUDE	<	3.00
o	3.00 <= MAGNITUDE	<	4.00
O	4.00 <= MAGNITUDE	<	5.00
□	5.00 <= MAGNITUDE	<	6.00

0 20 40 60 80 100 KILOMETERS

Figure 9.–Map of the southern Great Basin catalog area showing the historical seismicity from 1960 through 1969 (randomized data).



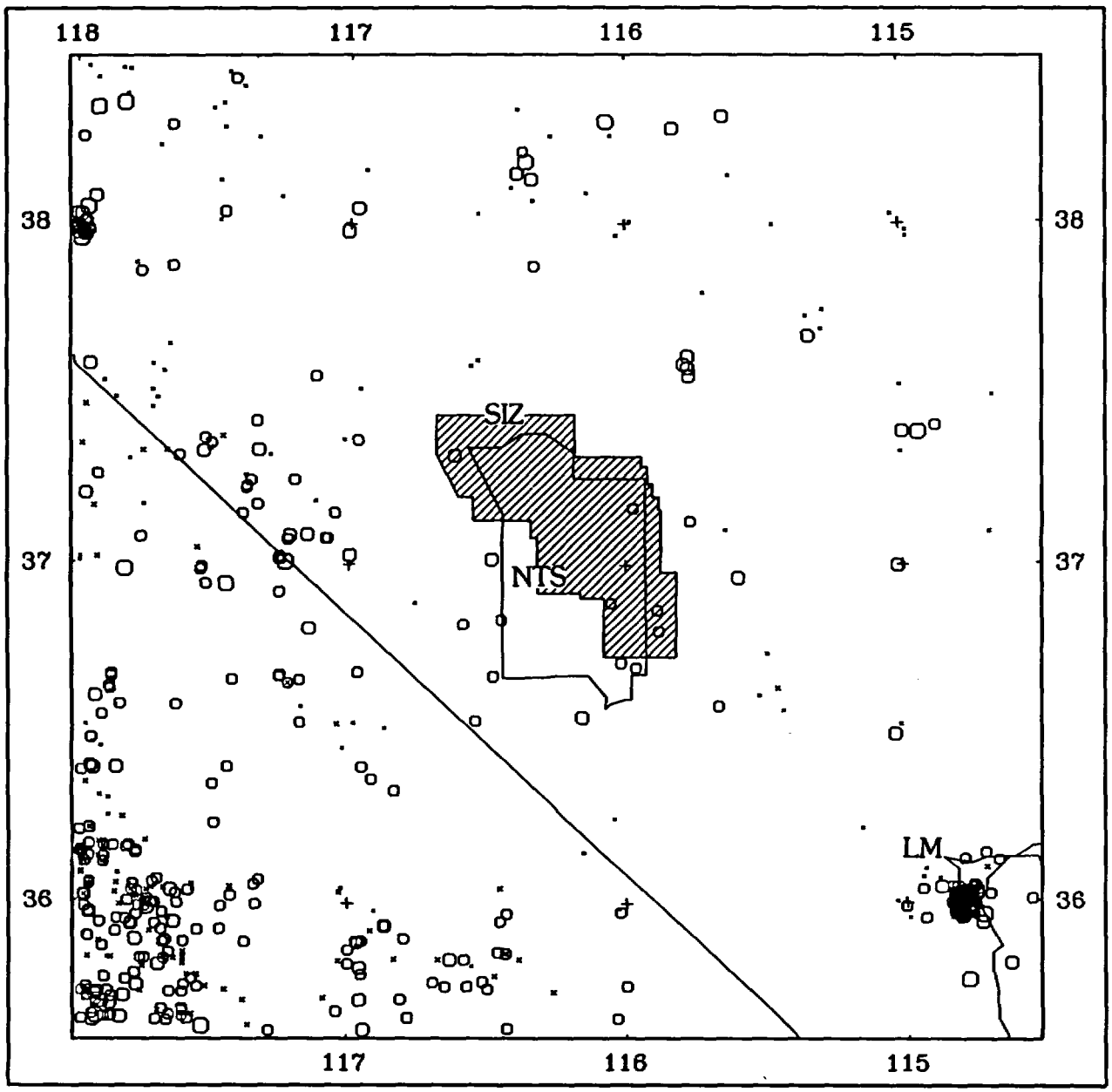
SIZ – Zone of Potential Induced Seismicity;
NTS – Nevada Test Site; LM – Lake Mead

SYMBOLS

·	0.00 <= MAGNITUDE	<	2.00
▪	2.00 <= MAGNITUDE	<	3.00
o	3.00 <= MAGNITUDE	<	4.00
▫	4.00 <= MAGNITUDE	<	5.00
□	5.00 <= MAGNITUDE	<	6.00

0 20 40 60 80 100 KILOMETERS

Figure 10.–Map of the southern Great Basin catalog area showing the historical seismicity from 1970 to 29 July 1978 (randomized data).



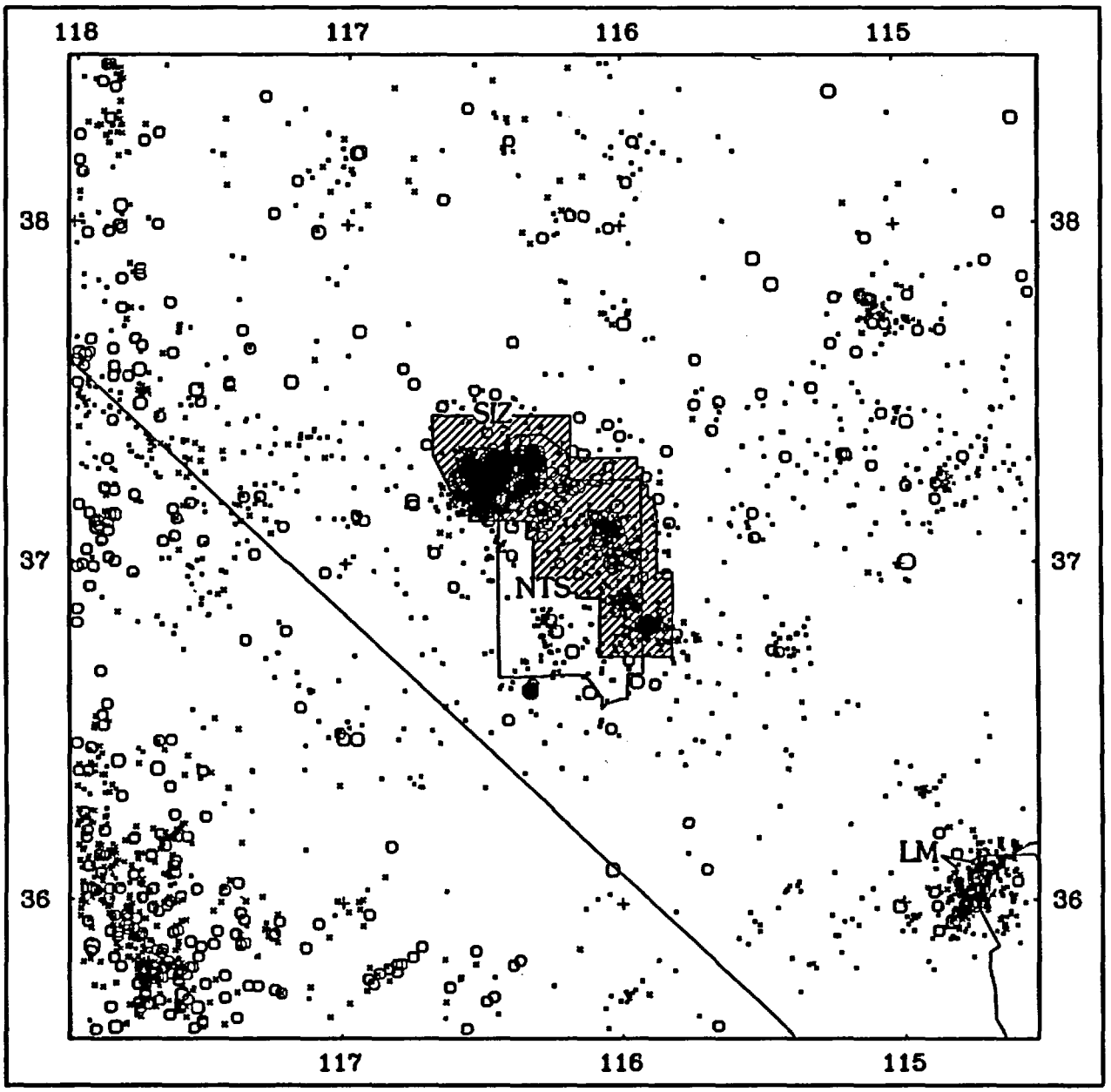
SIZ – Zone of Potential Induced Seismicity;
NTS – Nevada Test Site; LM – Lake Mead

SYMBOLS

·	0.00 <= MAGNITUDE < 2.00
×	2.00 <= MAGNITUDE < 3.00
o	3.00 <= MAGNITUDE < 4.00
O	4.00 <= MAGNITUDE < 5.00
O	5.00 <= MAGNITUDE < 6.00

0 20 40 60 80 100 KILOMETERS

Figure 11.–Map of the southern Great Basin catalog area showing the historical seismicity from 1868 through 1956 before the beginning of extensive underground nuclear testing (randomized data).



SIZ – Zone of Potential Induced Seismicity;
NTS – Nevada Test Site; LM – Lake Mead

SYMBOLS

·	0.00 <= MAGNITUDE < 2.00
•	2.00 <= MAGNITUDE < 3.00
o	3.00 <= MAGNITUDE < 4.00
O	4.00 <= MAGNITUDE < 5.00
O	5.00 <= MAGNITUDE < 8.00

0 20 40 60 80 100 KILOMETERS

Figure 12.–Map of the southern Great Basin catalog area showing the historical seismicity from 1957 to 29 July 1978 after the beginning of extensive underground nuclear testing (randomized data).

APPENDIX A

Hypocenter quality rating systems

This appendix explains the different quality rating systems used by the data sources that report one. The original forms are presented here.

- Hamilton and others (1971):

Q	Epicenter	Focal Depth
A	Excellent	Good
B	Good	Fair
C	Fair	Poor
D	Poor	Poor.

Q is taken as the average of the station distribution (QD) with respect to the earthquake and the statistical measures (QS) of the solution. These two factors are indepently rated according to the following:

Station Distribution

QD	NO	GAP	DMIN
A	≥ 8	$\leq 120°$	$\leq$ Depth or 5 km
B	≥ 6	$\leq 150°$	$\leq$ 2 x depth or 10 km
C	$\begin{pmatrix} \geq 6 \\ \geq 4 \end{pmatrix}$	$\begin{pmatrix} \leq 225° \\ \leq 180° \end{pmatrix}$	$\leq$ 50 km
D	Others.		

Statistical Measures

QS	ERH (km)	ERZ (km)	MD (sec)	RMAX (sec)
A	≤ 1.0	≤ 2.0	≤ 0.10	≤ 0.25
B	≤ 2.5	≤ 5.0	≤ 0.20	≤ 0.50
C	≤ 5.0		≤ 0.30	≤ 0.75
D	Others.			

NO - the number of stations used in locating the earthquake.

GAP - largest azimuthal separation in degrees between stations.

DMIN - epicentral distance in kilometers to the nearest station.

ERH - standard error of the epicenter in kilometers.

ERZ - standard error of the depth in kilometers.

MD - mean deviation of the time residuals in seconds.

RMAX - the maximum time residuals in seconds.

- Fischer and others (1972), Rogers and Lee (1976), and Rogers and others (1977):

Q	Epicenter	Focal Depth
A	Excellent	Good
B	Good	Fair
C	Fair	Poor
D	Poor	Poor.

These quality ratings are based on the rating system given in Lee and Lahr (1975). Q is taken as the average of the station distribution (QD) with respect to the earthquake and the statistical measures (QS) of the solution. These two factors are indepently rated according to the following:

Station Distribution

QD	NO	GAP	DMIN
A	≥ 6	$\leq 90°$	$\leq$ Depth or 5 km
B	≥ 6	$\leq 135°$	$\leq$ 2 x depth or 10 km
C	≥ 6	$\leq 180°$	$\leq$ 50 km
D	Others		

Statistical Measures

QS	RMS (sec)	ERH (km)	ERZ (km)
A	≤ 0.15	≤ 1.0	≤ 2.0
B	≤ 0.30	≤ 2.5	≤ 5.0
C	≤ 0.50	≤ 5.0	
D	Others.		

NO - the number of stations used in locating the earthquake.

GAP - largest azimuthal separation in degrees between stations.

DMIN - epicentral distance in kilometers to the nearest station.

ERH - standard error of the epicenter in kilometers.

ERZ - standard error of the depth in kilometers.

RMS - root mean square of time residuals in seconds.

- Askew and Algermissen (1983):

  A Instrumental epicenter estimated to be good within 0.1°.
  B Instrumental epicenter estimated to be good within 0.1° to 0.2°.
  C Instrumental epicenter estimated to be good within 0.2° to 0.5°.
  D Instrumental epicenter estimated to be good within 0.5° to 1.0°.
  E Instrumental epicenter estimated to be in error by more than 1.0°.
  F Epicenter from felt data estimated to be good to 0.5°.
  G Epicenter from felt data estimated to be good from 0.5° to 1.0°.
  H Epicenter from felt data estimated to be good from 1.0° to 2.0°.
  I Epicenter from felt data estimated to be in error by more than 2.0°.
  X Epicenter quality undetermined.

- The Seismological Laboratory of the University of Nevada-Reno uses the quality rating system of Lee and Lahr (1975). However, the station distribution (QD) and the statistical measures (QS) differ slightly.

- The Seismological Laboratories of the California Institute of Technology and the Seismographic Station of the University of California at Berkeley describe Q as follows:

  A Specially investigated (usually with portable seismographs).
  B Epicenter probably within 5 kilometers, origin time to nearest second.
  C Epicenter probably within 15 kilometers, origin time to a few seconds.
  D Epicenter not known within 15 kilometers, rough location.

Q varies depending on how the earthquake was recorded and where it was located.

APPENDIX B

List of the southern Great Basin earthquakes
04 September 1868 to 29 July 1978

Format description of the SGB historical hypocenter summary

Heading	Columns	Description
DATE	01–04 (year) 06–08 (month) 10–11 (day)	The year, month, and day of the earthquake in Coordinated Universal Time (UTC).
TIME	14–15 (hour) 17–18 (minutes) 20–24 (seconds)	The UTC origin time of the earthquake. In some cases, particularly for older earthquakes, the origin time may only be known to the nearest hour or minute.
FLAG	27–29	Annotations: CLMT Event associated with Clover Mountains series. LM Lake Mead induced seismic event. SIZ Event located in a zone of potentially induced seismic activity due to nuclear testing. CSNL Cavity collapse reported by SNL. CPDX Cavity collapse reported by PDX. HE High energy explosion or blast.
RMS	32–36	The root mean square of travel time residuals in seconds. A dash indicates the error estimate is unknown.
NO	38–40	The number of stations and (or) phase readings. A dash indicates the number is unknown.
LATITUDE	43–48	Latitude of the epicenter in degrees. The latitude is listed to thousands of a degree, but not neccessarily accurate to that decimal place, particularly for older earthquakes.
LONGITUDE	51–58	West longitude coordinate of the epicenter in degrees. The longitude is listed to thousands of a degree, but not neccessarily accurate to that decimal place, particularly for older earthquakes.
ERH	60–63	The standard error of the epicenter in kilometers. A dash indicates the error estimate is unknown.
Q	65	The solution quality of the epicenter. A blank indicates the quality is not available. See appendix A for the quality rating systems used.

Format description of the SGB historical hypocenter summary—Continued

Heading	Columns	Description
GAP	67–69	The largest azimuthal separation between stations in degrees. A dash indicates the azimuth is unknown.
DEPTH	71–77	The focal depth of the hypocenter in kilometers. The * notation indicates focal depth was fixed at the value given and a focal depth without the * notation indicates the focal depth was computed. A dash indicates the focal depth was undetermined or is unknown.
ERZ	79–83	The standard error in focal depth in kilometers. A dash indicates the error estimate is unknown.
REF	85–87	Code (table 1)identifying the primary source of the hypocenter solution including the date and the origin time. The * notation indicates the location of this event was attributed the location of the previous nuclear test.
I	91–92	The Modified Mercalli intensity. A dash indicates no data or not felt.
REF	95–97	Code indentifying the reference for the intensity listed (see table 1 for source code).
Magnitudes: (see table 1 for source codes)		
M_S	100–102	Surface wave magnitude.
REF	104–106	Source code for the M_S magnitude.
M_L	109–111	Local magnitude (Wood-Anderson).
REF	113–115	Source code for the M_L magnitude.
M_D	118-120	Duration magnitude (M_L equivalent).
REF	122–124	Source code for the M_D magnitude.
m_b	127–129	Body wave magnitude.
REF	131–133	Source code for the m_b magnitude.
OTH	136–138	Other magnitudes or magnitudes of an unidentified type.
REF	140–142	Source code for other magnitudes.

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE	ORIGIN TIME	HYPOCENTER											INTENSITY		MAGNITUDE									
(UTC)	HR MN SEC	FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	I	REF	MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1868 SEP 4	16: 0: 0.00		—	—	37.000	118.000	—	I	—	—	—	BRP	8	BRP	6.3	BRP	—		—		—		—	
1871 MAR 6	0: 0: 0.00		—	—	36.300	118.000	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1871 JUL 5	0: 0: 0.00		—	—	37.000	118.000	—	H	—	—	—	BRP	6	BRP	5.0	BRP	—		—		—		—	
1871 12	3:30: 0.00		—	—	37.000	118.000	—	H	—	—	—	BRP	—		—		—		—		—		—	
1871 12	5: 0: 0.00		—	—	37.000	118.000	—	I	—	—	—	BRP	—		—		—		—		—		—	
1871 12	8: 0: 0.00		—	—	37.000	118.000	—	I	—	—	—	BRP	—		—		—		—		—		—	
1872 MAR 17	9: 0: 0.00		—	—	36.500	118.000	—	H	—	—	—	BRP	—		—		—		—		—		—	
1872 APR 13	0: 0: 0.00		—	—	36.000	118.000	—	I	—	—	—	BRP	5	BRP	4.3	BRP	—		—		—		—	
1872 18	12: 0: 0.00		—	—	36.000	118.000	—	I	—	—	—	BRP	6	BRP	5.0	BRP	—		—		—		—	
1872 19	0: 0: 0.00		—	—	38.500	116.400	—		—	—	—	RYC	—		—		—		—		—		—	
1872 SEP 14	0: 0: 0.00		—	—	36.500	118.000	—	H	—	—	—	BRP	—		—		—		—		—		—	
1882 AUG 13	8: 0: 0.00		—	—	36.500	117.000	—	H	—	—	—	BRP	5	BRP	4.3	BRP	—		—		—		—	
1885 APR 19	8: 0: 0.00		—	—	36.500	117.900	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1886 14	3:20: 0.00		—	—	37.200	117.700	—	H	—	—	—	BRP	6	BRP	5.0	BRP	—		—		—		4.9	RYC
1887 OCT 4	11:45: 0.00		—	—	36.500	117.900	—	H	—	—	—	BRP	—		—		—		—		—		—	
1892 AUG 31	5: 0: 0.00		—	—	38.300	116.400	—		—	—	—	RYC	3	RYC	—		—		—		—		—	
1894 FEB 6	5: 1: 0.00		—	—	36.500	117.900	—	H	—	—	—	BRP	—		—		—		—		—		—	
1904 OCT 27	0: 0: 0.00		—	—	37.600	116.500	—	H	—	—	—	BRP	—		—		—		—		—		—	
1905 JUN 11	0: 0: 0.00		—	—	36.700	115.500	—	H	—	—	—	BRP	—		—		—		—		—		—	
1908 NOV 4	8:37: 0.00		—	—	36.000	117.000	—	H	—	—	—	BRP	7	BRP	5.7	BRP	—		—		—		6.5	DMG
1910 NOV 7	17:20: 0.00		—	—	37.500	117.000	—	G	—	—	—	BRP	7	BRP	5.7	BRP	—		—		—		5.5	RYC
1910 19	2:25: 0.00		—	—	38.000	118.000	—	G	—	—	—	BRP	7	BRP	5.7	BRP	—		—		—		5.5	RYC
1910 19	17:57: 0.00		—	—	38.000	118.000	—	G	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1910 20	14:20: 0.00		—	—	38.000	118.000	—	G	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1910 21	23:20: 0.00		—	—	38.000	118.000	—	G	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1910 21	23:23: 0.00		—	—	38.000	118.000	—	G	—	—	—	BRP	8	BRP	6.3	BRP	—		—		—		6.1	RYC
1910 22	0:30: 0.00		—	—	38.000	118.000	—	G	—	—	—	BRP	6	BRP	5.0	BRP	—		—		—		4.9	RYC
1910 22	6: 0: 0.00		—	—	38.000	118.000	—	G	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1910 22	6: 5: 0.00		—	—	38.000	118.000	—	G	—	—	—	BRP	7	BRP	5.7	BRP	—		—		—		5.5	RYC
1910 24	6:50: 0.00		—	—	38.000	118.000	—	G	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1910 25	4:30: 0.00		—	—	38.000	118.000	—	G	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1910 25	7:45: 0.00		—	—	38.000	118.000	—	G	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1910 DEC 22	0: 0: 0.00		—	—	38.000	118.000	—	G	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1914 APR 6	9:55: 0.00		—	—	38.000	117.500	—	G	—	—	—	BRP	—		—		—		—		—		—	
1916 OCT 9	4:50: 0.00		—	—	36.500	118.000	—	D	—	—	—	BRK	—		—		—		—		—		—	
1916 NOV 9	11: 0: 0.00		—	—	38.100	115.600	—		—	—	—	RYC	2	RYC	—		—		—		—		—	
1916 10	10:15: 0.00		—	—	36.900	116.800	—	H	—	—	—	BRP	4	BRP	4.3	BRP	—		—		—		—	
1916 10	18: 0: 0.00		—	—	36.200	116.000	—		—	—	—	RYC	2	RYC	—		—		—		—		—	
1917 FEB 10	4:30: 0.00		—	—	36.250	118.000	—	D	—	—	—	BRK	—		—		—		—		—		—	
1917 SEP 4	19:13: 0.00		—	—	36.670	118.000	—	D	—	—	—	BRK	—		—		—		—		—		—	
1918 JUL 17	0: 0: 0.00		—	—	36.250	118.000	—	D	—	—	—	BRK	—		—		—		—		—		—	
1918 27	21:40: 0.00		—	—	36.580	117.830	—	D	—	—	—	BRK	—		—		—		—		—		—	
1921 NOV 17	22:12:30.00		—	—	36.500	118.000	—		—	—	—	PDX	—		—		—		—		—		—	
1928 MAR 26	16:27: 0.00		—	—	38.300	117.500	—		—	—	—	RYC	—		—		—		—		—		4.7	RYC
1928 DEC 9	3: 4: 0.00		—	—	37.500	117.900	—		—	—	—	RYC	—		—		—		—		—		3.8	RYC
1930 MAR 14	5:52: 0.00		—	—	36.080	118.000	—	D	—	—	—	BRK	—		—		—		—		—		—	
1930 JUL 7	12: 9: 0.00		—	—	35.700	117.800	—	X	—	—	—	BRP	2	BRP	3.8	BRP	4.5	BRP	—		—		—	
1931 JAN 17	8: 7:21.53		—	—	37.586	117.939	—		—	8.00*	—	GDY	5	BRP	3.4	BRP	4.2	BRP	—		—		4.2	RYC

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1931 APR 23	23:34: 3.15		—	—	35.976	116.906	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1931 JUN 5	12:45: 0.00		—	—	36.080	118.000	—	D	—	—	—	BRK	—		—		—		—		—		—	
1932 JAN 14	3:16:15.90		—	—	36.583	117.817	—	B	—	16.00*	—	PAS	4	BRK	1.8	BRP	3.0	PAS	—		—		3.0	BRK
1932 FEB 3	21: 4: 7.30		—	—	36.250	117.800	—	B	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1932 23	20:24:49.40		—	—	36.250	117.800	—	C	—	16.00*	—	PAS	1	BRP	0.1	BRP	1.0	PAS	—		—		—	
1932 MAR 6	21: 0:17.10		—	—	37.050	117.550	—	C	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		—	
1932 23	0:20:14.10		—	—	35.600	116.967	—	B	—	16.00*	—	PAS	2	BRP	3.2	BRP	4.0	PAS	—		—		—	
1932 31	5: 0:19.60		—	—	36.217	117.917	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1932 APR 1	3: 4:10.60		—	—	36.217	117.917	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1932 18	12:35:56.00		—	—	35.917	116.917	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1932 24	1:23: 0.90		—	—	36.083	117.817	—	C	—	16.00*	—	PAS	1	BRP	0.1	BRP	1.5	PAS	—		—		—	
1932 MAY 22	1:16:58.80		—	—	37.333	117.667	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1932 22	2:44:46.00		—	—	37.333	117.500	—	C	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		—	
1932 22	8:16:56.00		—	—	37.333	117.500	—	C	—	—	—	BRK	—		—		4.0	BRK	—		—		4.0	PAS
1932 22	9: 2:56.00		—	—	37.333	117.500	—	C	—	16.00*	—	PAS	—		—		2.5	PAS	—		—		—	
1932 22	9: 6: 6.00		—	—	37.333	117.500	—	C	—	16.00*	—	PAS	—		—		2.5	PAS	—		—		—	
1932 22	9:52:27.00		—	—	37.333	117.500	—	C	—	16.00*	—	PAS	—		—		3.0	PAS	—		—		—	
1932 JUL 8	9:44:18.50		—	—	36.217	117.917	—	C	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		—	
1932 29	6:53: 0.00		—	—	36.160	118.000	—	D	—	—	—	BRK	—		—		—		—		—		—	
1932 AUG 3	5:47:25.00		—	—	38.000	117.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		—	
1932 3	16:24:52.30		—	—	37.333	117.750	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1932 16	23:39:50.00		—	—	36.217	117.967	—	C	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		—	
1932 19	18: 4:20.00		—	—	36.217	117.967	—	C	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		—	
1932 OCT 22	5:55: 0.00		—	—	35.667	117.000	—	D	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		—	
1932 NOV 24	13:48: 0.00		—	—	35.750	116.000	—	D	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1932 DEC 21	7:40: 0.00		—	—	38.500	117.600	—		—	—	—	RYC	3	RYC	—		—		—		—		—	
1932 26	5: 2:45.05		—	—	38.043	117.957	—		—	8.00*	—	GDY	6	BRP	4.9	BRP	5.3	BRP	—		—		5.3	RYC
1933 JAN 2	1:34: 0.00		—	—	38.000	118.000	—	C	—	16.00*	—	PAS	—		—		4.5	PAS	—		—		—	
1933 7	8:11:24.00		—	—	38.500	118.000	—		—	—	—	RYC	—		—		—		—		—		4.2	RYC
1933 20	1:42:56.00		—	—	38.500	117.800	—		—	—	—	RYC	4	RYC	—		—		—		—		4.2	RYC
1933 29	5:50: 0.00		—	—	36.000	117.417	—	D	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1933 29	13:52: 0.00		—	—	38.500	118.000	—		—	—	—	RYC	—		—		—		—		—		5.0	RYC
1933 FEB 8	3:57:11.00		—	—	38.500	118.000	—		—	—	—	RYC	—		—		—		—		—		4.2	RYC
1933 9	13:57: 0.00		—	—	38.500	118.000	—		—	—	—	RYC	—		—		—		—		—		4.1	RYC
1933 13	22: 9: 0.00		—	—	38.000	118.000	—	E	—	—	—	BRP	5	BRP	5.1	BRP	5.5	BRP	—		—		5.5	RYC
1933 20	19:28: 0.00		—	—	36.000	117.500	—	D	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		—	
1933 20	22:56: 0.00		—	—	36.250	117.967	—	D	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1933 27	10:53: 0.00		—	—	38.000	118.000	—	E	—	—	—	BRP	5	BRP	3.4	BRP	4.2	BRP	—		—		4.2	RYC
1933 MAR 12	22: 0: 0.00		—	—	38.500	116.750	—	D	—	—	—	BRK	4	BRK	—		—		—		—		—	
1933 13	13:17:48.04		—	—	37.262	117.373	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1933 13	13:17:57.00		—	—	36.500	118.000	—		—	—	—	PDX	—		—		—		—		—		—	
1933 APR 7	0:19: 0.00		—	—	38.000	118.000	—	F	—	—	—	BRP	5	BRP	3.8	BRP	4.5	BRP	—		—		4.5	RYC
1933 MAY 9	9:46:32.23		—	—	38.456	117.833	—		—	8.00*	—	GDY	3	RYC	—		—		—		—		5.1	RYC
1933 9	21: 0: 0.00		—	—	38.080	117.250	—	D	—	—	—	BRK	3	RYC	—		—		—		—		—	
1933 13	11:34: 0.00		—	—	38.400	117.900	—		—	—	—	RYC	—		—		—		—		—		4.1	RYC
1933 JUN 4	14: 9: 0.00		—	—	38.500	117.900	—		—	—	—	RYC	5	RYC	—		—		—		—		5.2	RYC
1933 JUL 10	10:30: 0.00		—	—	38.500	117.800	—		—	—	—	RYC	4	RYC	—		—		—		—		—	
1933 18	18:12: 0.00		—	—	38.000	118.000	—		—	—	—	RYC	—		—		—		—		—		4.0	RYC

SGB HISTORICAL HYPOCENTER SUMMARY 1868–1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1933 JUL 21	2:55: 0.00		—	—	38.400	117.800	—		—	—	—	RYC	4	RYC	—		—		—		—		4.7	RYC
1933 22	22:11: 2.00		—	—	35.833	116.583	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		—	
1933 30	15:48: 3.00		—	—	36.167	118.000	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1933 OCT 1	0:49:54.00		—	—	35.917	117.500	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		—	
1933 4	21:59:55.00		—	—	38.000	117.417	—	C	—	16.00*	—	PAS	—		—		3.7	PAS	—		—		—	
1933 NOV 28	20:11: 0.00		—	—	35.750	116.500	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1934 JAN 2	7: 4: 0.00		—	—	36.083	117.950	—	C	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		2.0	BRK
1934 9	15:44: 0.00		—	—	35.833	117.650	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1934 MAR 1	13: 7: 0.00		—	—	36.133	117.967	—	B	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1934 13	16:11: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	3	BRK	—		4.5	BRK	—		—		—	
1934 13	16:20: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		5.0	BRK	—		—		—	
1934 19	10:41: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	4	BRK	—		4.5	BRK	—		—		—	
1934 23	22:49: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.5	BRK	—		—		—	
1934 28	9:37: 0.00		—	—	37.300	116.600	—	E	—	—	—	BRP	5	BRP	3.8	BRP	4.5	BRP	—		—		4.5	RYC
1934 30	16:26: 0.00		—	—	37.667	115.333	—	C	—	16.00*	—	PAS	6	BRP	4.4	BRP	4.5	PAS	—		—		4.9	RYC
1934 30	18:51: 0.00		—	—	37.700	115.300	—		—	—	—	RYC	—		—		—		—		—		4.0	RYC
1934 31	0:12: 0.00		—	—	38.100	116.300	—		—	—	—	RYC	—		—		—		—		—		4.5	RYC
1934 31	8:24: 0.00		—	—	37.700	115.300	—		—	—	—	RYC	—		—		—		—		—		4.0	RYC
1934 31	22:13: 0.00		—	—	37.700	115.300	—		—	—	—	ERS	4	ERS	—		—		—		—		4.0	ERS
1934 APR 2	8: 5: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.5	BRK	—		—		—	
1934 15	12: 9: 0.00		—	—	38.000	115.000	—	E	—	—	—	BRP	6	BRP	5.0	BRP	—		—		—		5.0	RYC
1934 17	3:50: 0.00		—	—	38.000	115.000	—		—	—	—	RYC	—		—		—		—		—		4.0	RYC
1934 17	14:46: 0.00		—	—	38.000	115.000	—		—	—	—	RYC	—		—		—		—		—		4.0	RYC
1934 18	2:48: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		—	
1934 22	11:24: 0.00		—	—	38.000	118.000	—	F	—	—	—	BRP	5	BRP	4.0	BRP	4.6	BRP	—		—		4.6	RYC
1934 JUN 1	5:55: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		—	
1934 12	20:57: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		4.0	RYC
1934 18	5: 7: 0.00		—	—	38.000	116.000	—		—	—	—	RYC	3	RYC	—		—		—		—		—	
1934 JUL 1	6: 3: 0.00		—	—	35.817	117.650	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1934 3	19:46: 0.00		—	—	36.200	117.717	—	B	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1934 AUG 18	16:51: 0.00		—	—	36.400	118.000	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1934 19	1: 9: 0.00		—	—	36.400	118.000	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1934 19	2:54: 0.00		—	—	36.400	118.000	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1934 19	3:30: 0.00		—	—	36.400	118.000	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1934 20	11:53: 0.00		—	—	36.400	118.000	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1934 23	10:52: 0.00		—	—	36.400	118.000	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1934 23	17:43: 0.00		—	—	36.400	118.000	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1934 SEP 13	18:40: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		—	
1934 30	8:37: 0.00		—	—	35.833	117.650	—	C	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		2.0	BRK
1934 OCT 16	23:13: 0.00		—	—	37.100	117.100	—	E	—	—	—	BRP	5	BRP	3.6	BRP	4.3	BRP	—		—		4.3	RYC
1934 NOV 30	19:31: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		4.0	PAS
1934 DEC 4	6:17: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		—	
1934 12	10:42: 0.00		—	—	35.833	117.650	—	B	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1934 31	5:51: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	4	BRK	—		4.0	BRK	—		—		—	
1935 JAN 2	12:29: 0.00		—	—	36.150	117.950	—	B	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1935 14	22:45: 0.00		—	—	36.667	116.500	—	C	—	16.00*	—	PAS	—		—		3.0	PAS	—		—		3.0	BRK
1935 21	0: 9:38.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		4.6	RYC
1935 FEB 6	6:36: 0.00		—	—	35.733	117.917	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1935 FEB 6	6:41: 0.00		—	—	35.733	117.917	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1935 6	6:44: 0.00		—	—	35.733	117.917	—	C	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		—	
1935 6	7: 5: 0.00		—	—	35.733	117.917	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1935 6	20:57: 0.00		—	—	35.733	117.917	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1935 8	4:22: 0.00		—	—	35.833	118.000	—	B	—	16.00*	—	PAS	5	BRK	3.2	BRP	4.0	PAS	—		—		4.0	BRK
1935 23	16:29: 0.00		—	—	35.617	117.283	—	D	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1935 27	7:15: 0.00		—	—	36.667	117.167	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1935 MAR 3	5:49: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		3.0	BRK	—		—		4.0	PAS
1935 6	0:55: 0.00		—	—	36.150	117.950	—	B	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1935 APR 17	4:39: 0.00		—	—	36.650	117.217	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1935 17	4:41: 0.00		—	—	36.650	117.217	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1935 17	5: 4: 0.00		—	—	36.650	117.217	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1935 24	17:26: 0.00		—	—	36.667	117.250	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1935 24	19:23: 0.00		—	—	36.667	117.250	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1935 MAY 8	14:29: 0.00		—	—	36.683	116.967	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1935 17	2:55: 0.00		—	—	35.617	117.283	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1935 JUN 6	19:33: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		—	
1936 JAN 11	6:49: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		—	
1936 14	5:30: 0.00		—	—	38.000	117.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		—	
1936 20	18:32: 0.00		—	—	38.000	118.000	—	E	—	—	—	BRP	5	BRP	4.5	BRP	4.5	BRK	—		—		4.5	PAS
1936 MAR 26	22:43: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		—	
1936 APR 7	2:39: 0.00		—	—	37.600	116.600	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1936 10	5:59: 0.00		—	—	37.100	115.600	—	E	—	—	—	BRP	5	BRP	4.0	BRP	—		—		—		4.0	RYC
1936 12	12:24: 0.00		—	—	35.833	118.000	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1936 19	20:19: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	4	RYC	—		4.0	BRK	—		—		4.0	PAS
1936 21	4:34: 0.00		—	—	36.150	117.950	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1936 24	19: 0: 9.34		—	—	36.161	117.786	—	C	—	10.00*	—	PAS	2	BRP	1.8	BRP	3.0	PAS	—		—		4.0	BRK
1936 25	18: 4: 0.00		—	—	36.150	117.950	—	B	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1936 26	16:25:16.85		—	—	36.236	117.476	—	C	—	10.00*	—	PAS	4	BRK	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1936 MAY 10	19:36: 0.00		—	—	36.917	117.500	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1936 31	14:48: 0.00		—	—	37.500	117.700	—		—	—	—	RYC	—		—		—		—		—		3.0	RYC
1936 JUN 10	6:50: 0.00		—	—	36.600	115.500	—		—	—	—	RYC	—		—		—		—		—		—	
1936 JUL 2	1:40: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		—	
1936 25	19:39: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	4	BRK	—		4.0	BRK	—		—		—	
1936 AUG 11	7:17: 0.00		—	—	36.633	117.850	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1936 SEP 5	16:52: 0.00		—	—	35.833	116.500	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1936 5	22:24: 0.00		—	—	35.833	116.500	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1936 7	11:19: 0.00	LM	—	—	36.000	115.000	—		—	—	—	ERS	4	ERS	—		—		—		—		4.0	ERS
1936 7	11:48: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	4	RYC	—		—		—		—		4.5	RYC
1936 7	17:48: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	3	RYC	—		—		—		—		—	
1936 19	3:38: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	3	RYC	—		—		—		—		3.5	RYC
1936 19	3:50: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		3.0	RYC
1936 19	12:29: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		3.0	RYC
1936 20	4:13: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	3	RYC	—		—		—		—		3.5	RYC
1936 20	8:18: 0.00	LM	—	—	36.000	115.000	—		—	—	—	ERS	4	ERS	—		—		—		—		4.0	ERS
1936 21	5:27: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	2	RYC	—		—		—		—		—	
1936 21	8: 5: 0.00		—	—	35.833	117.917	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1936 22	10:40:48.00		—	—	38.300	117.500	—		—	—	—	ISC	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1936 SEP 29	3:22: 0.00		—	—	36.667	117.417	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1936 OCT 4	9:31: 0.00		—	—	35.800	118.000	—	D	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1936 7	15: 1: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	4	RYC	—		4.0	BRK	—		—		4.0	RYC
1936 13	20:39: 0.00		—	—	35.600	116.400	—	D	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1936 21	15: 4: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		—	
1936 26	12:34: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		—	
1936 NOV 20	12:39: 0.00		—	—	35.733	117.917	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1936 25	7:28: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	2	RYC	—		—		—		—		—	
1936 25	19:19: 0.00		—	—	36.150	117.950	—	B	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1936 DEC 6	6:23: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	4	RYC	—		—		—		—		—	
1936 8	6:48: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	4	RYC	—		—		—		—		—	
1937 JAN 28	3:14: 0.00		—	—	37.100	114.700	—		—	—	—	RYC	—		—		—		—		—		4.0	RYC
1937 FEB 9	22:15: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	2	RYC	—		—		—		—		—	
1937 12	22:47: 0.00		—	—	37.500	117.700	—		—	—	—	RYC	4	RYC	—		—		—		—		4.0	RYC
1937 19	23: 6: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	5	BRP	4.5	BRP	4.5	BRK	—		—		4.5	PAS
1937 25	18:21: 0.00		—	—	35.733	117.917	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1937 28	8:41: 0.00		—	—	38.300	117.300	—		—	—	—	RYC	—		—		—		—		—		2.5	RYC
1937 28	18:17: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		4.0	PAS
1937 29	2:14: 0.00		—	—	35.830	117.850	—	D	—	—	—	BRK	—		—		—		—		—		—	
1937 APR 11	20:29:31.42		—	—	35.995	117.329	—	A	—	10.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1937 26	18:27: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1937 28	4:15: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	5	CVH	—		4.0	RWL	—		—		—	
1937 28	6:16: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	5	RWL	—		4.0	RWL	—		—		—	
1937 MAY 28	6:20: 0.00		—	—	37.900	117.800	—		—	—	—	RYC	—		—		—		—		—		2.5	RYC
1937 JUN 18	17:18: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	5	CVH	—		4.0	RWL	—		—		—	
1937 27	4:27: 0.00		—	—	37.600	117.700	—		—	—	—	RYC	—		—		—		—		—		—	
1937 30	6:13: 0.00		—	—	37.600	117.700	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1937 30	6:40: 0.00		—	—	37.600	117.700	—		—	—	—	RYC	—		—		—		—		—		3.0	RYC
1937 JUL 18	0:37: 0.00		—	—	38.150	117.950	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1937 AUG 8	9:44: 0.00		—	—	36.100	117.900	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1937 10	3:20: 0.00		—	—	35.633	116.700	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1937 19	7: 3: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	5	BRK	—		4.5	PAS	—		—		4.5	BRK
1937 19	7:49: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		3.5	BRK	—		—		—	
1937 19	20:42: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		3.5	BRK	—		—		—	
1937 SEP 1	19:39: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1937 9	22:11: 0.00		—	—	35.967	117.917	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1937 10	11:10: 0.00		—	—	35.967	117.917	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1937 10	19:34: 0.00		—	—	35.967	117.917	—	B	—	16.00*	—	PAS	2	BRP	3.2	BRP	4.0	PAS	—		—		4.0	BRK
1937 11	18:29: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1937 12	18:22: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1937 22	5:21: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1937 OCT 9	14:35: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1937 27	19: 0: 0.00		—	—	36.033	117.567	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1937 NOV 12	0:39: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	6	CVH	—		—		—		—		3.5	RYC
1937 12	1:17: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1937 12	1:38: 0.00	LM	—	—	36.000	115.000	—	D	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		—	
1937 DEC 3	23:55: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1937 8	5: 8: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1937 DEC 27	5:18: 0.00		—	—	35.700	116.800	—	D	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1937 27	8:10: 0.00		—	—	35.700	116.800	—	D	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1938 JAN 17	1:54: 0.00		—	—	35.900	117.900	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1938 MAR 14	21:21: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		—	
1938 JUN 3	4:28: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1938 JUL 6	6:26: 0.00		—	—	35.800	116.667	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1938 6	17:20: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1938 6	18:20: 0.00	LM	—	—	36.100	114.800	—	C	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		—	
1938 18	5:40: 0.00		—	—	36.150	117.950	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1938 26	6:35: 0.00		—	—	35.600	117.100	—		—	—	—	ISC	—		—		—		—		—		—	
1938 28	0: 1:33.00		—	—	37.600	115.800	—		—	—	—	RYC	4	ERS	—		4.0	PAS	—		—		4.0	RYC
1938 28	0: 6: 0.00		—	—	37.600	115.800	—	D	—	16.00*	—	PAS	—		—		4.0	PAS	—		—		—	
1938 28	0:39:24.10		—	—	37.600	115.800	—	C	—	—	—	BRP	5	BRP	4.5	BRP	4.5	PAS	—		—		4.5	RYC
1938 28	6: 9: 0.00		—	—	37.600	115.800	—	D	—	16.00*	—	PAS	—		—		4.0	PAS	—		—		4.0	RYC
1938 31	10:38:40.00		—	—	38.300	115.800	—		—	—	—	RYC	—		—		4.5	PAS	—		—		4.5	RYC
1938 31	12:44: 3.00		—	—	38.300	115.600	—		—	—	—	RYC	—		—		4.0	PAS	—		—		4.0	RYC
1938 SEP 17	14:23: 4.09		—	—	35.631	117.513	—	C	—	1.00*	—	PAS	6	BRP	5.0	BRP	5.0	PAS	—		—		—	
1938 17	14:29: 0.00		—	—	35.600	117.650	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1938 17	16:16: 0.00		—	—	35.600	117.817	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		—	
1938 23	8:20: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.5	BRK	—		—		4.5	PAS
1938 OCT 1	1: 7: 0.00	LM	—	—	36.000	114.900	—	C	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		3.5	RYC
1938 1	7:38: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1938 1	8:38: 0.00	LM	—	—	36.000	114.900	—	C	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		—	
1938 22	13:13: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1938 NOV 1	0:34: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1938 DEC 12	5:14: 0.00		—	—	36.000	116.000	—		—	—	—	RYC	—		—		—		—		—		3.0	RYC
1938 17	8:43: 0.00	LM	—	—	36.000	114.800	—	C	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		—	
1938 26	5:14: 0.00		—	—	36.000	116.000	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1939 JAN 3	17:39: 0.00		—	—	36.000	117.733	—	B	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1939 3	17:44: 0.00		—	—	36.000	117.733	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1939 3	17:50: 0.00		—	—	36.000	117.733	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1939 3	17:56: 0.00		—	—	36.000	117.733	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1939 3	18: 2: 0.00		—	—	36.000	117.733	—	B	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1939 3	20:58:43.71		—	—	35.998	117.718	—	B	—	10.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1939 7	20:21:49.34		—	—	35.940	117.616	—		—	8.00*	—	GDY	2	BRP	3.8	BRP	4.5	PAS	—		—		5.0	BRK
1939 7	20:34: 0.00		—	—	36.000	117.733	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1939 9	16:18: 0.00		—	—	36.000	117.733	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1939 15	23: 0: 0.00		—	—	36.000	117.733	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1939 30	14:30: 0.00	LM	—	—	36.000	114.800	—	C	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		3.5	RYC
1939 FEB 20	5:48: 9.00		—	—	36.000	117.733	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1939 25	14:15: 0.00		—	—	36.000	117.733	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1939 27	8:36: 0.00		—	—	35.867	117.867	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1939 MAR 1	20:51: 0.00		—	—	35.867	117.867	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1939 16	3:11: 0.00		—	—	36.000	117.733	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1939 20	22:18: 0.00		—	—	36.000	117.733	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1939 APR 25	18:16: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1939 26	15:40: 0.00		—	—	36.150	117.950	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1939 26	16:13: 0.00		—	—	36.150	117.950	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1939 MAY 4	20:44:48.36		—	—	35.768	114.785	—		—	8.00*	—	GDY	6	BRP	5.0	BRP	5.0	PAS	—		—		5.0	RYC
1939 4	21:53: 0.00	LM	—	—	36.000	114.800	—	C	—	16.00*	—	PAS	—		—		4.0	PAS	—		—		—	
1939 4	22:36: 0.00	LM	—	—	36.000	114.800	—	C	—	16.00*	—	PAS	4	CVH	—		4.0	PAS	—		—		4.0	RYC
1939 4	22:37: 0.00	LM	—	—	36.000	114.800	—	C	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		3.5	RYC
1939 7	12:31: 0.00	LM	—	—	36.000	114.800	—	C	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		3.5	RYC
1939 7	19:32: 0.00	LM	—	—	36.000	114.800	—	C	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		3.5	RYC
1939 11	2:42: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	5	BRP	3.6	BRP	4.5	BRK	—		—		4.5	PAS
1939 11	18: 4:45.37		—	—	38.353	117.828	—		—	8.00*	—	GDY	—		—		5.5	PAS	—		—		5.5	GDY
1939 11	21: 0: 0.00		—	—	38.500	118.000	—		—	—	—	RYC	—		—		—		—		—		4.7	RYC
1939 13	2:49: 0.00		—	—	38.500	118.000	—		—	—	—	RYC	—		—		—		—		—		4.8	RYC
1939 13	21: 8: 0.00		—	—	38.500	118.000	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1939 17	11: 7: 0.00		—	—	36.167	117.833	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1939 17	18:19: 0.00		—	—	38.500	118.000	—		—	—	—	RYC	—		—		—		—		—		4.5	RYC
1939 24	3:47: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1939 JUN 11	19:15: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	6	RWL	—		5.0	RWL	—		—		—	
1939 12	15:49:30.00		—	—	38.007	115.982	—		—	—	—	PDX	—		—		—		—		—		—	
1939 12	18: 5: 0.00		—	—	37.020	117.250	—	C	—	—	—	BRK	1	BRP	2.5	BRP	3.5	BRK	—		—		3.5	PAS
1939 12	18: 8: 0.00		—	—	37.020	117.250	—	C	—	—	—	BRK	1	BRP	2.5	BRP	3.5	BRK	—		—		3.5	PAS
1939 12	18:16: 0.00		—	—	37.200	117.100	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1939 12	18:24: 0.00		—	—	37.020	117.250	—	C	—	—	—	BRK	1	BRP	2.5	BRP	3.5	BRK	—		—		3.5	PAS
1939 13	17:15:32.07		—	—	37.007	117.229	—		—	8.00*	—	GDY	6	BRP	5.0	BRP	5.0	BRK	—		—		5.0	PAS
1939 13	18:10: 0.00		—	—	38.500	116.900	—	D	—	—	—	BRK	—		—		—		—		—		—	
1939 21	11:28:35.28		—	—	38.230	117.694	—		—	8.00*	—	GDY	—		—		—		—		—		4.5	RYC
1939 JUL 10	8:21: 0.00		—	—	38.200	116.900	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1939 25	11:22: 0.00		—	—	36.133	117.917	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1939 AUG 11	17:36:35.00		—	—	37.020	117.250	—	C	—	—	—	BRK	—		1.8	BRP	3.0	BRK	—		—		3.0	PAS
1939 15	15:48:18.00		—	—	36.000	117.583	—	B	—	16.00*	—	PAS	2	BRP	3.2	BRP	4.0	PAS	—		—		4.0	BRK
1939 SEP 12	0:44:38.00		—	—	36.000	117.733	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1939 13	14:42:49.00		—	—	35.833	116.583	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1939 17	11: 1: 0.00		—	—	38.000	118.000	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1939 21	9:17: 0.00		—	—	37.000	117.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		4.0	PAS
1939 OCT 5	20: 6:17.00		—	—	35.850	117.300	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1939 NOV 5	16:14: 0.00		—	—	38.000	118.000	—	D	—	—	—	BRK	—		—		4.0	BRK	—		—		4.0	RYC
1939 17	20:40:45.00		—	—	36.150	117.950	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1939 21	22:40: 0.00		—	—	36.500	115.000	—	D	—	16.00*	—	PAS	—		—		4.0	PAS	—		—		4.0	RYC
1939 DEC 1	13: 5: 5.12		—	—	36.397	117.825	—	C	—	4.60	—	PAS	2	BRP	3.2	BRP	4.0	PAS	—		—		—	
1939 19	20:12: 9.00		—	—	35.933	116.867	—	C	—	16.00*	—	PAS	2	BRP	3.2	BRP	4.0	PAS	—		—		4.0	BRK
1939 29	9:27:20.00		—	—	35.833	117.000	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1939 30	5: 0:47.58		—	—	35.807	116.955	—	A	—	5.30	—	PAS	2	BRP	3.2	BRP	4.0	PAS	—		—		4.0	BRK
1940 JAN 4	8: 7:12.00		—	—	38.300	116.300	—		—	—	—	ISC	—		—		—		—		—		—	
1940 MAR 10	18: 1:53.31		—	—	37.389	114.937	—		—	8.00*	—	GDY	4	RYC	—		5.0	PAS	—		—		5.0	RYC
1940 11	0: 6: 0.00		—	—	37.000	115.000	—	D	—	16.00*	—	PAS	5	BRP	4.5	BRP	4.5	PAS	—		—		4.5	RYC
1940 20	10:22:24.00		—	—	38.100	116.100	—		—	—	—	ISC	—		—		—		—		—		—	
1940 25	21:18:18.00		—	—	36.800	117.100	—	D	—	16.00*	—	PAS	2	BRP	3.2	BRP	4.0	PAS	—		—		4.0	BRK
1940 APR 7	8:41:52.80		—	—	37.391	114.996	—		—	8.00*	—	GDY	5	BRP	4.5	BRP	4.5	PAS	—		—		4.5	RYC
1940 MAY 4	13:21:38.00		—	—	35.900	117.800	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1940 9	1: 0: 0.00		—	—	36.150	116.150	—		—	—	—	RYC	3	RYC	—		—		—		—		—	
1940 JUL 8	10: 5: 0.00		—	—	38.350	117.500	—		—	—	—	RYC	—		—		—		—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1940 SEP 10	1:40:36.00		—	—	36.133	117.950	—	B	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1940 20	12:21:54.00		—	—	36.529	115.012	—		—	—	—	PDX	—		—		—		—		—		—	
1940 OCT 12	0: 0: 0.00		—	—	37.500	115.000	—		—	—	—	RYC	—		—		—		—		—		—	
1940 28	22:21: 6.00		—	—	37.369	117.019	—		—	—	—	PDX	—		—		—		—		—		—	
1941 FEB 21	11:33:56.00		—	—	36.150	117.950	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1941 MAR 17	4:20:33.00		—	—	36.133	117.967	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1941 22	11: 8: 6.00	LM	—	—	36.000	114.600	—	D	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		3.5	RYC
1941 APR 23	5:24:24.00		—	—	38.100	116.400	—		—	—	—	ISC	—		—		—		—		—		—	
1941 25	2:37:53.00		—	—	36.200	117.800	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1941 JUN 6	19:38:47.67		—	—	36.963	115.592	—		—	8.00*	—	GDY	—		—		4.0	PAS	—		—		4.0	RYC
1941 6	22:12:54.00		—	—	37.100	115.800	—	D	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		3.5	RYC
1941 JUL 25	1:53:30.00		—	—	36.000	117.800	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1941 AUG 17	11:14:18.00		—	—	36.500	118.000	—	D	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1941 SEP 3	21:25: 0.00	LM	—	—	36.000	114.700	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1941 5	13:11: 0.00	LM	—	—	36.000	114.700	—		—	—	—	RYC	—		—		—		—		—		—	
1941 13	20:59: 6.00		—	—	35.900	116.800	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1941 24	18:34:25.00		—	—	35.933	116.867	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1941 25	9:50:59.00		—	—	35.883	117.583	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1941 OCT 9	2:26:11.00		—	—	36.633	117.850	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1941 15	4:49: 0.00		—	—	37.000	117.500	—	D	—	—	—	BRK	—		1.8	BRP	3.0	BRK	—		—		3.0	PAS
1941 DEC 14	16:21:42.00	LM	—	—	36.000	114.800	—	D	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		3.5	RYC
1942 JAN 11	20:27:56.00		—	—	38.233	118.000	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1942 12	3:28:49.00		—	—	36.233	118.000	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1942 15	13:23:20.00		—	—	36.250	118.000	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1942 JUN 4	15:26: 0.00	LM	—	—	36.000	114.900	—	I	—	—	—	BRP	5	BRP	4.3	BRP	4.0	RWL	—		—		—	
1942 22	22:13:51.00		—	—	36.250	117.967	—	B	—	16.00*	—	PAS	2	BRP	3.2	BRP	4.0	PAS	—		—		4.0	BRK
1942 22	23:51: 3.00		—	—	36.250	117.967	—	B	—	16.00*	—	PAS	2	BRP	3.2	BRP	4.0	PAS	—		—		4.0	BRK
1942 22	23:53:27.00		—	—	36.250	117.967	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1942 JUL 4	8:52:25.00		—	—	36.250	117.967	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1942 11	16:41:48.00		—	—	38.300	116.100	—	D	—	16.00*	—	PAS	—		—		5.0	PAS	—		—		5.0	RYC
1942 11	16:45:42.00		—	—	38.300	116.100	—		—	—	—	RYC	—		—		—		—		—		4.5	RYC
1942 24	9: 3:53.00		—	—	36.250	117.967	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1942 AUG 11	10:14: 2.00		—	—	35.817	114.633	—	C	—	16.00*	—	PAS	5	BRP	3.2	BRP	4.0	PAS	—		—		4.0	RYC
1942 SEP 9	5:15: 0.00	LM	—	—	36.000	114.700	—	E	—	—	—	BRP	6	BRP	5.0	BRP	5.0	RWL	—		—		—	
1942 OCT 1	18:39:55.00	LM	—	—	36.000	114.717	—	B	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		—	
1942 7	2:31:32.00		—	—	36.250	117.967	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1942 16	10: 7:27.00		—	—	36.250	117.967	—	C	—	16.00*	—	PAS	2	BRP	3.2	BRP	4.0	PAS	—		—		4.0	BRK
1943 JAN 24	4:30: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1943 26	13: 1: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1943 FEB 3	9: 1: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	—		—		—		—		—		—	
1943 13	23:30:59.00		—	—	36.017	117.950	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1943 25	20:28:25.00		—	—	36.250	117.967	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1943 26	2: 1:50.00		—	—	36.250	117.967	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1943 MAR 11	15: 2: 0.00		—	—	36.150	117.950	—	D	—	—	—	BRK	—		—		—		—		—		—	
1943 12	20:18: 0.00		—	—	36.120	117.950	—	D	—	—	—	BRK	—		—		—		—		—		—	
1943 16	9:59: 0.00		—	—	36.120	117.950	—	D	—	—	—	BRK	—		—		—		—		—		—	
1943 23	3:20: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	2	RYC	—		—		—		—		—	
1943 23	20:57: 0.00		—	—	36.120	117.950	—	D	—	—	—	BRK	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1943 MAR 26	3:50:44.00		—	—	36.150	117.950	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1943 29	10:28:12.00		—	—	36.133	117.967	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1943 29	18:18: 0.00		—	—	36.150	117.950	—	D	—	—	—	BRK	—		—		—		—		—		—	
1943 APR 4	15:48:45.00		—	—	36.133	117.967	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1943 4	15:51:50.00		—	—	36.133	117.967	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1943 8	17:27: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	3	RYC	—		—		—		—		—	
1943 11	18:36:12.00		—	—	38.000	118.000	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1943 21	23:29: 0.00		—	—	38.100	117.500	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1943 24	1:12:12.00		—	—	36.000	117.600	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1943 24	5: 3:15.00		—	—	36.000	117.600	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1943 MAY 6	4:10: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	3	RYC	—		—		—		—		—	
1943 27	2:41:20.00		—	—	35.950	116.450	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1943 30	5:17: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	3	RYC	—		—		—		—		—	
1943 30	7:50:54.00		—	—	36.133	117.967	—	C	—	16.00*	—	PAS	4	BRK	3.2	BRP	4.0	PAS	—		—		4.0	BRK
1943 JUN 4	8:45: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	3	RYC	—		—		—		—		—	
1943 6	19:58: 0.00	LM	—	—	36.000	114.800	—		—	—	—	RYC	3	RYC	—		—		—		—		—	
1943 10	22:25:30.00		—	—	37.300	115.000	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1943 22	20:56: 1.00		—	—	35.750	116.650	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1943 JUL 1	16:19:20.00		—	—	35.617	116.400	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1943 24	8:12:30.00		—	—	36.233	118.000	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1943 AUG 4	21:49: 6.00	LM	—	—	36.100	114.900	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1943 4	22:16:48.00	LM	—	—	36.100	114.900	—		—	—	—	RYC	—		—		—		—		—		3.0	RYC
1943 5	6:43:12.00	LM	—	—	36.100	114.900	—		—	—	—	RYC	—		—		—		—		—		3.0	RYC
1943 10	4:42:40.00		—	—	37.870	117.650	—	C	—	—	—	BRK	—		—		3.5	BRK	—		—		3.5	PAS
1943 18	0:30:16.00		—	—	35.767	116.517	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1943 SEP 9	10:34: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1943 15	10:57:33.00		—	—	36.017	117.933	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1943 15	12:38: 2.00		—	—	36.017	117.933	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1943 16	0:16:11.00		—	—	36.017	117.933	—	C	—	16.00*	—	PAS	2	BRP	3.2	BRP	4.0	PAS	—		—		4.0	BRK
1943 16	0:47:19.00		—	—	36.017	117.933	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1943 16	7:52:22.00		—	—	35.979	117.711	—		—	8.00*	—	GDY	4	BRK	3.8	BRP	4.5	PAS	—		—		4.5	BRK
1943 16	8:13:36.00		—	—	36.017	117.933	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1943 17	20:48:41.00		—	—	36.017	117.933	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1943 19	23:39: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1943 20	6:20:24.00		—	—	36.017	117.933	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1943 22	20:16: 4.00		—	—	36.017	117.933	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1943 OCT 2	18:37:54.00		—	—	37.300	117.800	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1943 21	12: 2:51.00		—	—	36.017	117.933	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1944 JAN 31	23:22:19.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1944 FEB 28	1:29: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1944 MAR 20	9:30:57.00		—	—	37.500	114.700	—	E	—	—	—	BRP	4	BRP	4.0	BRP	—		—		—		4.0	RYC
1944 26	21:33: 9.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1944 MAY 4	9: 1:14.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1944 10	12: 7:26.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1944 11	1: 4:22.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1944 16	4:21:14.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1944 17	12:16:30.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1944 27	9:44:37.00	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	

DATE (UTC)	ORIGIN TIME HR	MN	SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1944 MAY 28	11	41	37.00	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1944 30	7	1	52.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1944 31	4	40	11.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1944 JUN 1	10	21	34.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1944 4	12	1	40.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1944 16	1	13	2.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1944 17	5	19	48.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1944 29	8	5	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1944 JUL 14	2	21	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1944 16	18	46	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1944 AUG 3	4	7	20.00		—	—	36.633	115.450	—	C	—	16.00*	—	PAS	2	BRP	2.7	BRP	2.8	PAS	—		—		2.8	RYC
1944 3	4	24	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1944 9	14	1	5.98		—	—	35.887	117.752	—	C	—	1.00*	—	PAS	2	BRP	3.2	BRP	4.0	PAS	—		—		4.0	BRK
1944 10	23	50	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1944 12	8	25	20.00		—	—	35.933	117.767	—	C	—	16.00*	—	PAS	2	BRP	3.3	BRP	4.1	PAS	—		—		4.1	BRK
1944 12	21	8	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1944 12	21	21	20.00		—	—	35.933	117.767	—	C	—	16.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		3.4	BRK
1944 13	6	27	57.00		—	—	35.933	117.767	—	C	—	16.00*	—	PAS	1	BRP	2.8	BRP	3.7	PAS	—		—		3.7	BRK
1944 SEP 4	9	26	0.00	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1944 7	16	24	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1944 14	9	42	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1944 24	21	36	0.00	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1944 30	0	54	12.00		—	—	36.600	115.450	—		—	—	—	RYC	—		—		—		—		—		2.8	RYC
1944 OCT 9	2	40	16.00		—	—	38.400	117.400	—		—	—	—	RYC	—		—		—		—		—		3.7	RYC
1944 9	3	29	42.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1944 15	7	30	12.40	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1944 21	9	50	14.00	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1944 24	8	37	14.00	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1944 NOV 19	22	20	48.00		—	—	36.500	117.000	—	D	—	16.00*	—	PAS	4	BRK	1.2	BRP	2.5	PAS	—		—		2.5	BRK
1944 21	6	34	0.00	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1944 26	11	15	0.00	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1944 27	23	35	40.00		—	—	37.550	117.120	—	C	—	—	—	BRK	4	BRP	3.7	BRP	3.7	BRK	—		—		3.7	PAS
1944 29	12	20	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1944 DEC 8	9	20	48.00		—	—	38.400	117.400	—	D	—	—	—	BRK	—		—		3.4	BRK	—		—		3.4	RYC
1944 10	9	20	48.00		—	—	38.400	117.400	—		—	—	—	ISC	—		—		—		—		—		—	
1944 23	8	16	22.00		—	—	36.400	117.917	—	A	—	16.00*	—	PAS	5	BRK	4.1	BRP	4.7	PAS	—		—		4.7	BRK
1945 JAN 2	2	36	10.00		—	—	36.400	117.917	—	C	—	16.00*	—	PAS	1	BRP	—		3.5	PAS	—		—		3.5	BRK
1945 11	11	57	0.00		—	—	37.400	114.900	—		—	—	—	RYC	—		—		3.8	PDX	—		—		3.8	RYC
1945 12	18	48	30.00	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1945 30	14	0	0.00	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1945 FEB 3	8	43	0.00		—	—	38.000	118.000	—		—	—	—	RYC	—		—		—		—		—		3.4	RYC
1945 7	15	23	5.30	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1945 16	21	5	32.00	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1945 17	4	4	14.00	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1945 23	21	13	0.00	LM	—	—	36.000	114.800	—	C	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1945 APR 23	3	3	54.00		—	—	36.300	118.000	—	D	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	BRK
1945 MAY 15	18	28	16.00		—	—	35.750	116.567	—	C	—	16.00*	—	PAS	1	BRP	—		3.1	PAS	—		—		—	
1945 JUN 14	3	31	15.66		—	—	36.941	117.441	—		—	8.00*	—	GDY	6	BRP	5.0	BRP	5.0	BRK	—		—		5.0	PAS

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1945 JUL 26	10:10:58.77		—	—	36.104	117.986	—	C	—	6.70	—	PAS	2	BRP	3.3	BRP	4.1	PAS	—		—		4.1	BRK
1945 27	9:31: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1945 31	4:48: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1945 AUG 11	11:14:59.00		—	—	37.420	117.330	—	C	—	—	—	BRK	3	BRP	—		3.3	BRK	—		—		3.3	PAS
1945 SEP 11	2: 1: 8.00		—	—	36.533	117.167	—	C	—	16.00*	—	PAS	1	BRP	—		3.4	PAS	—		—		3.4	BRK
1945 OCT 27	7:17: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1945 NOV 7	20:25: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1945 16	8:49: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1945 28	7:51: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1945 DEC 2	2:10: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1945 18	1:13: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1946 JAN 7	23: 0: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1946 8	11:13: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1946 FEB 14	10:45: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1946 16	2:12: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1946 16	2:43: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1946 MAR 11	0:16: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1946 11	5:18: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1946 11	13:46: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1946 12	11:45: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1946 14	9:17: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1946 15	3:25: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1946 15	13:21: 1.06		—	—	35.731	117.978	—		—	8.00*	—	GDY	6	BRP	5.1	BRP	5.2	PAS	—		—		5.2	GDY
1946 15	13:49:36.56		—	—	35.683	117.899	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1946 15	19:18:54.26		—	—	35.660	117.886	—		—	8.00*	—	GDY	6	BRP	5.4	BRP	5.4	PAS	—		—		5.4	GDY
1946 16	9:46:18.70		—	—	35.704	117.927	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1946 17	4:52: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1946 17	14:45:53.00		—	—	38.300	117.900	—	D	—	—	—	BRK	5	BRK	—		5.0	BRK	—		—		5.0	PAS
1946 18	15:49:26.48		—	—	35.715	117.790	—		—	8.00*	—	GDY	6	BRK	4.2	BRP	4.8	PAS	—		—		4.8	BRK
1946 18	15:50:41.23		—	—	35.704	117.877	—		—	8.00*	—	GDY	6	PDX	5.3	BRP	5.3	PAS	—		—		5.3	GDY
1946 24	5:17:27.80		—	—	35.738	117.981	—	A	—	16.00*	—	PAS	2	BRP	3.3	BRP	4.1	PAS	—		—		—	
1946 26	8:38: 0.00		—	—	35.900	118.000	—	D	—	—	—	BRK	—		—		—		—		—		—	
1946 APR 3	3: 7:57.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1946 3	3:20:58.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		—	
1946 3	3:39:26.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		—	
1946 3	15:38:27.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1946 4	15:44:31.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.8	BRP	3.7	PAS	—		—		—	
1946 6	3:59:25.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		—	
1946 7	8:28:31.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.9	BRP	3.8	PAS	—		—		—	
1946 8	15:36:20.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		—	
1946 9	0:35:47.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		—	
1946 9	3:14:28.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1946 9	5: 9:40.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	
1946 9	10:17:53.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.8	BRP	3.7	PAS	—		—		—	
1946 10	12:21: 0.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1946 11	23:35:40.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		—		—	
1946 12	10:34:33.72		—	—	35.687	117.869	—	B	—	1.00*	—	PAS	2	BRP	3.2	BRP	4.0	PAS	—		—		—	
1946 12	20: 2:37.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.9	BRP	3.8	PAS	—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1946 APR 13	0: 0:18.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.8	BRP	3.7	PAS	—		—		—	
1946 13	15:46:57.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		—		—	
1946 13	15:48:59.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.8	BRP	3.7	PAS	—		—		—	
1946 16	22:56: 8.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.9	BRP	3.8	PAS	—		—		—	
1946 19	1:14:50.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	
1946 27	2:18:24.00		—	—	38.500	118.000	—	D	—	—	—	BRK	—		—		4.7	BRK	—		—		4.7	RYC
1946 27	22:37:23.84		—	—	35.723	117.891	—	C	—	1.00*	—	PAS	2	BRP	3.3	BRP	4.1	PAS	—		—		—	
1946 MAY 1	17:30:10.00		—	—	37.080	118.000	—	C	—	—	—	BRK	4	BRK	3.2	BRP	4.0	BRK	—		—		4.0	PAS
1946 4	4:25:12.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1946 4	5:44:52.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1946 5	9: 3:43.66		—	—	35.697	117.836	—	C	—	2.30	—	PAS	2	BRP	3.4	BRP	4.2	PAS	—		—		—	
1946 6	11: 1:11.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		—		—	
1946 9	22:45:43.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1946 11	11:45:29.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		—	
1946 13	1:16:57.00		—	—	36.050	117.917	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1946 13	1:18:33.00		—	—	36.050	117.917	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1946 13	1:26: 9.00		—	—	36.050	117.917	—	B	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		2.9	BRK
1946 13	8:12:59.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	
1946 13	11:38:21.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1946 14	12:29:57.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1946 14	14:32:58.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		0.9	BRP	2.3	PAS	—		—		—	
1946 15	4: 5:35.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		—	
1946 15	5:24:43.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1946 19	0:30:45.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		—	
1946 20	4:34: 8.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1946 20	13:47:28.00		—	—	35.667	117.500	—	C	—	16.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1946 20	17: 6:53.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1946 22	19: 0:53.00		—	—	36.133	117.950	—	B	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1946 23	4:46:34.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		0.4	BRP	1.9	PAS	—		—		—	
1946 24	6:19:27.00		—	—	36.050	117.917	—	C	—	16.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		2.8	BRK
1946 28	0: 6: 9.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1946 31	8:47:54.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		—	
1946 JUN 1	20:28:50.00		—	—	35.883	117.367	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1946 10	4:26:44.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1946 10	14: 4:14.69		—	—	35.788	117.752	—	B	—	7.40	—	PAS	1	BRP	2.8	BRP	3.7	PAS	—		—		—	
1946 11	9:25: 9.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		—	
1946 12	18: 0:16.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		—	
1946 12	20:20:43.11		—	—	35.733	117.937	—	B	—	4.00*	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		—		—	
1946 14	1:26: 0.00		—	—	35.900	118.000	—	D	—	16.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1946 15	9:21: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1946 16	13:32:37.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		—	
1946 17	16:26: 7.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		—	
1946 20	15:45:56.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1946 20	18:33:32.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	
1946 21	0:59:54.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1946 25	20:25:19.00		—	—	35.750	117.533	—	C	—	16.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		—	
1946 26	2:14: 4.00		—	—	35.750	117.533	—	C	—	16.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		—	
1946 29	15:41:55.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		0.8	BRP	2.2	PAS	—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1946 JUL 7	7:22: 0.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		—	
1946 9	3:19: 0.67		—	—	35.658	117.857	—	B	—	1.00*	—	PAS	1	BRP	2.9	BRP	3.8	PAS	—		—		—	
1946 13	12: 0:33.00		—	—	35.700	117.600	—	C	—	16.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		—	
1946 13	17:14: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1946 14	16:57: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1946 14	21:23: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1946 17	16:38: 2.00		—	—	35.683	117.583	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		—	
1946 18	5: 2: 1.99		—	—	35.657	117.560	—	C	—	1.00*	—	PAS	2	BRP	3.0	BRP	3.9	PAS	—		—		—	
1946 22	15:19:32.92		—	—	35.752	117.744	—	B	—	5.00*	—	PAS	4	PDX	3.3	BRP	4.1	PAS	—		—		—	
1946 23	11:25:58.00		—	—	35.833	118.000	—	C	—	16.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		3.4	BRK
1946 28	5:14:11.00		—	—	35.667	117.833	—	C	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		—	
1946 29	14:36:53.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1946 AUG 10	21:28:28.00		—	—	36.483	117.917	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1946 31	9:10:12.80		—	—	35.646	117.896	—	A	—	16.00*	—	PAS	4	PDX	3.4	BRP	4.2	PAS	—		—		—	
1946 SEP 5	17:38:39.38		—	—	35.938	117.878	—	C	—	18.70	—	PAS	1	BRP	2.8	BRP	3.7	PAS	—		—		3.7	BRK
1946 13	16:13: 7.00		—	—	35.600	117.667	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		—	
1946 14	9: 3:27.00		—	—	35.667	117.983	—	C	—	16.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		—	
1946 14	17:18:38.00		—	—	36.067	117.317	—	C	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	BRK
1946 23	18:20:27.00		—	—	35.683	117.650	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1946 29	2: 1:13.00		—	—	35.667	117.583	—	C	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		—	
1946 OCT 1	3:19: 3.00		—	—	35.667	117.583	—	C	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	
1946 2	11:28: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1946 4	14:42: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1946 6	7:19: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1946 6	16: 0: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1946 14	10:39:18.00		—	—	35.700	117.950	—	C	—	16.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		—	
1946 14	10:52: 5.00		—	—	35.700	117.950	—	C	—	16.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1946 20	3:59:11.00		—	—	35.600	116.900	—	D	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1946 NOV 4	5:14: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1946 16	13:31: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1946 24	21:30:14.00		—	—	36.600	117.867	—	C	—	16.00*	—	PAS	1	BRP	2.9	BRP	3.8	PAS	—		—		3.8	BRK
1946 DEC 1	5:16:29.00		—	—	37.250	117.200	—	C	—	—	—	BRK	3	BRP	3.2	BRP	3.2	BRK	—		—		3.2	PAS
1946 1	6:23: 3.00		—	—	37.170	117.330	—	C	—	—	—	BRK	3	BRP	3.5	BRP	3.5	BRK	—		—		3.5	PAS
1946 1	11:54:35.00		—	—	37.200	117.320	—	C	—	—	—	BRK	3	BRP	3.2	BRP	3.3	BRK	—		—		3.3	PAS
1946 6	11:36: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1946 7	1:58: 0.00		—	—	37.300	117.300	—		—	—	—	RYC	—		—		—		—		—		3.5	RYC
1946 7	2: 2:29.00		—	—	37.300	117.300	—	D	—	—	—	BRK	5	BRP	4.1	BRP	4.1	BRK	—		—		4.1	PAS
1946 9	14:35:17.00		—	—	35.767	117.783	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1946 26	5:28: 1.00		—	—	35.700	118.000	—	D	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1947 JAN 12	22:10: 0.00		—	—	36.600	117.150	—	D	—	—	—	BRK	—		—		—		—		—		—	
1947 14	2:47:48.00		—	—	37.230	117.370	—	C	—	—	—	BRK	—		—		3.9	BRK	—		—		3.9	PAS
1947 14	2:50:11.00		—	—	37.230	117.370	—	C	—	—	—	BRK	—		—		3.5	BRK	—		—		3.5	PAS
1947 18	5:30: 3.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1947 FEB 2	7:30:42.00		—	—	35.700	117.400	—	C	—	16.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1947 2	14: 1:23.00		—	—	35.700	117.400	—	C	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1947 10	16:40:52.00		—	—	35.700	117.850	—	C	—	16.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1947 18	7:44:45.00		—	—	37.150	117.383	—	C	—	16.00*	—	PAS	—		—		3.4	PAS	—		—		3.4	BRK
1947 MAR 9	21:10:45.18		—	—	35.813	117.669	—	C	—	0.90	—	PAS	5	BRK	3.2	BRP	4.0	PAS	—		—		4.0	BRK

DATE (UTC)	ORIGIN TIME HR	MN	SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1947 MAR 12	23	54	10.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1947 29	6	5	0.00		—	—	35.750	118.000	—	D	—	16.00*	—	PAS	4	PDX	0.9	BRP	2.3	PAS	—		—		—	
1947 30	13	29	0.00		—	—	35.750	118.000	—	D	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		—	
1947 MAY 7	12	56	36.87		—	—	35.649	117.936	—	B	—	4.00*	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		—		—	
1947 19	4	42	34.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1947 19	5	9	4.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1947 JUN 6	16	58	11.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1947 17	14	28	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1947 19	20	7	41.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1947 20	4	2	19.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1947 JUL 19	1	15	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1947 19	4	35	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1947 19	9	55	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1947 27	5	21	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1947 30	22	45	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	4.5	RWL	—		—		—	
1947 AUG 16	7	53	18.00		—	—	35.833	116.383	—	C	—	16.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1947 23	0	0	1.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1947 23	11	39	26.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1947 SEP 23	6	20	40.00		—	—	37.150	116.000	—		—	16.00*	—	PAS	3	BRP	3.5	BRP	3.5	PAS	—		—		3.5	RYC
1947 25	13	57	56.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1947 25	13	59	54.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1947 26	21	10	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1947 30	3	5	23.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1947 30	4	24	55.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1947 30	21	58	0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	5	BRP	4.3	BRP	—		—		—		4.3	RYC
1947 OCT 9	8	36	48.00		—	—	36.700	116.000	—	D	—	16.00*	—	PAS	3	BRP	3.5	BRP	3.6	PAS	—		—		3.6	BRK
1947 21	10	44	40.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1947 28	23	59	37.00		—	—	35.967	117.667	—	B	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		3.2	BRK
1947 NOV 3	15	55	17.00		—	—	35.917	117.533	—	B	—	16.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		3.3	BRK
1947 DEC 16	23	8	43.00		—	—	35.750	117.500	—	D	—	16.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1947 19	2	36	41.00		—	—	36.350	117.483	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1948 JAN 1	6	6	36.00		—	—	35.700	117.717	—	C	—	16.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1948 4	1	30	35.00		—	—	35.833	117.733	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1948 9	8	10	43.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1948 FEB 1	8	49	3.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 3	11	25	49.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1948 6	13	14	13.00		—	—	37.220	117.900	—	C	—	—	—	BRK	5	BRK	3.4	BRP	4.2	BRK	—		—		4.2	PAS
1948 7	10	55	48.00		—	—	37.220	117.900	—	C	—	—	—	BRK	1	BRP	2.2	BRP	3.3	BRK	—		—		3.3	PAS
1948 10	11	15	0.00		—	—	37.500	117.800	—	D	—	—	—	BRK	4	BRP	3.7	BRP	—		—		—		—	
1948 20	23	6	25.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 29	23	30	3.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 MAR 24	10	3	55.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 APR 12	11	34	0.00		—	—	35.750	118.000	—	D	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		—	
1948 28	6	7	1.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1948 MAY 2	18	39	38.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 3	10	32	25.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1948 3	14	41	6.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1948 7	8	18	49.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1948 MAY 8	7:27:34.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1948 9	0:23:59.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1948 9	18:53: 4.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	5	BRP	4.3	BRP	—		—		—		4.3	RYC
1948 9	19:23:59.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 14	10:55:46.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 16	17:22:48.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 22	8:19:10.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1948 26	19:35:12.20		—	—	35.680	117.955	—	A	—	16.00*	—	PAS	2	BRP	3.3	BRP	4.1	PAS	—		—		—	
1948 JUN 9	13:24:34.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 17	0:53:47.00		—	—	36.117	117.867	—	B	—	16.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		3.4	BRK
1948 17	0:55:49.00		—	—	36.117	117.867	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1948 17	1:10:14.00		—	—	36.117	117.867	—	B	—	16.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		2.6	BRK
1948 JUL 1	12: 8: 0.00		—	—	36.500	117.000	—	D	—	—	—	BRK	—		—		—		—		—		—	
1948 6	13:21: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1948 6	13:25: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1948 15	5:32:49.00		—	—	35.750	117.917	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1948 20	6:42:56.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 AUG 29	11:25:57.00		—	—	36.800	116.550	—	C	—	16.00*	—	PAS	3	BRP	3.4	BRP	3.4	PAS	—		—		3.4	BRK
1948 30	19: 2:21.00		—	—	36.550	116.167	—	C	—	16.00*	—	PAS	4	BRP	4.0	BRP	4.0	PAS	—		—		4.0	BRK
1948 SEP 1	5:42:17.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1948 5	21:16:38.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 OCT 1	1:11:21.00		—	—	36.833	116.450	—	D	—	16.00*	—	PAS	3	BRP	3.5	BRP	3.6	PAS	—		—		3.6	BRK
1948 12	17:59:29.00		—	—	35.667	117.667	—	D	—	16.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1948 24	22: 6:37.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 25	15:56:29.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 NOV 2	16:48: 8.00	LM	—	—	35.983	114.783	—		—	—	—	PDX	6	PDX	—		5.0	RWL	—		—		—	
1948 2	17:58:34.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1948 2	23:47:25.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 4	12: 8:55.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1948 5	23:32:38.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 9	0: 6:31.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 22	0:37: 6.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1948 27	22: 5:35.00		—	—	35.717	117.833	—	C	—	16.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		—	
1948 DEC 12	20:44:55.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 JAN 7	3:37: 5.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1949 7	4: 4:28.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 7	15:11:32.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1949 10	15: 8:30.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 28	10: 6:23.00		—	—	36.367	116.917	—	C	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		3.2	BRK
1949 FEB 4	10:30:45.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 6	15:56:17.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 11	21: 5:23.30		—	—	36.983	117.805	—		—	8.00*	—	GDY	6	BRK	5.5	BRP	5.6	PAS	—		—		5.6	BRK
1949 12	5:25:56.00		—	—	37.080	117.750	—	C	—	—	—	BRK	6	PDX	—		3.8	BRK	—		—		3.8	PAS
1949 APR 10	23:45:46.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 14	5:15:58.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1949 MAY 4	16:19:47.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1949 11	5:30:19.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 18	9:11:19.00		—	—	35.733	117.850	—	C	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1949 MAY 22	11: 5:45.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1949 24	10:45:49.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1949 27	4:22:33.00		—	—	35.833	117.717	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1949 JUN 14	4:54:12.00		—	—	36.050	117.333	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1949 16	6:24:28.00		—	—	36.333	116.833	—	B	—	16.00*	—	PAS	1	BRP	—		3.7	PAS	—		—		3.7	BRK
1949 JUL 9	20:31:34.00		—	—	35.783	117.983	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1949 15	3:31:53.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 20	5: 2:41.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 20	8: 9:14.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 20	20:37:58.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 21	7: 9: 8.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 21	19:42:17.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 22	9:34:30.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1949 23	4:29: 8.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 29	8:14: 6.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 AUG 2	11:46:41.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 8	11:12:13.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1949 11	9:22:26.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 17	2:55:54.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 17	21:41:44.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1949 21	5:38:23.00		—	—	37.070	117.220	—	C	—	—	—	BRK	4	BRP	—		3.8	BRK	—		—		3.8	PAS
1949 22	5:44:59.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1949 30	3:20:43.00		—	—	35.833	116.667	—	C	—	16.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		2.7	BRK
1949 30	20:56:45.00		—	—	36.583	117.617	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1949 OCT 8	5:34:31.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1949 9	7:28:46.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1949 30	6: 9:55.00		—	—	35.833	117.583	—	C	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		2.0	BRK
1949 NOV 23	13:20: 1.00		—	—	35.850	117.800	—	B	—	16.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		2.6	BRK
1949 DEC 6	22: 7: 4.00		—	—	38.300	117.700	—	D	—	—	—	BRK	—		—		3.7	BRK	—		—		3.7	RYC
1949 8	20:44:41.00		—	—	36.917	117.250	—	C	—	16.00*	—	PAS	1	BRP	—		3.3	PAS	—		—		3.3	BRK
1949 9	4:34:49.00		—	—	38.067	117.667	—	B	—	16.00*	—	PAS	1	BRP	—		3.1	PAS	—		—		3.1	BRK
1949 12	1:13: 6.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1949 14	17:32:21.00		—	—	37.870	116.330	—	C	—	—	—	BRK	4	BRP	—		3.9	PAS	—		—		3.9	BRK
1949 19	3:30: 8.00		—	—	35.767	118.000	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1949 25	9:41: 6.00		—	—	36.133	117.950	—	B	—	16.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		2.1	BRK
1949 25	22: 2:30.00		—	—	36.133	117.950	—	B	—	16.00*	—	PAS	—		—		1.6	PAS	—		—		1.6	BRK
1949 31	6:16: 6.00		—	—	35.850	117.583	—	B	—	16.00*	—	PAS	—		0.8	BRP	2.2	PAS	—		—		2.2	BRK
1950 JAN 9	22:30: 8.00		—	—	35.683	117.883	—	C	—	16.00*	—	PAS	—		—		2.8	PAS	—		—		—	
1950 13	5: 7:19.00		—	—	37.017	116.483	—	—	—	—	—	PDX	—		—		4.1	PDX	—		—		—	
1950 13	15:36:34.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1950 20	4: 0: 0.00		—	—	38.150	117.933	—	C	—	16.00*	—	PAS	—		0.4	BRP	1.9	PAS	—		—		1.9	BRK
1950 21	21:55: 1.00		—	—	36.300	117.833	—	C	—	16.00*	—	PAS	—		0.3	BRP	1.8	PAS	—		—		1.8	BRK
1950 28	12:10: 5.00		—	—	36.083	117.400	—	C	—	16.00*	—	PAS	—		0.8	BRP	2.2	PAS	—		—		2.2	BRK
1950 28	22:36:21.00		—	—	35.833	117.600	—	B	—	16.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		2.6	BRK
1950 28	22:45:11.00		—	—	35.783	117.533	—	—	—	16.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		2.1	BRK
1950 FEB 2	13:57:49.00		—	—	35.900	117.933	—	C	—	16.00*	—	PAS	—		0.1	BRP	1.7	PAS	—		—		1.7	BRK
1950 2	14: 7: 2.00		—	—	36.033	117.550	—	C	—	16.00*	—	PAS	1	BRP	0.1	BRP	1.3	PAS	—		—		1.3	BRK
1950 6	18:33:43.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1950 FEB 12	1: 5:31.00		—	—	36.300	117.833	—	C	—	16.00*	—	PAS	—		0.1	BRP	1.7	PAS	—		—		1.7	BRK
1950 12	3:17: 3.00		—	—	36.300	117.833	—	C	—	16.00*	—	PAS	—		—		1.6	PAS	—		—		1.6	BRK
1950 27	5:12:32.00		—	—	36.500	116.533	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1950 MAR 12	23:11:28.00		—	—	36.100	117.900	—	C	—	16.00*	—	PAS	—		—		1.6	PAS	—		—		1.6	BRK
1950 20	12:16:39.00		—	—	35.767	117.550	—	C	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		3.2	BRK
1950 22	6:44:40.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1950 22	14:39:40.00		—	—	36.133	117.950	—	B	—	16.00*	—	PAS	—		0.3	BRP	1.8	PAS	—		—		1.8	BRK
1950 APR 1	23:48:15.00		—	—	36.167	117.883	—	B	—	16.00*	—	PAS	4	BRK	1.5	BRP	2.7	PAS	—		—		2.7	BRK
1950 4	9:40:52.00		—	—	37.167	117.917	—	B	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1950 17	12:15:32.00		—	—	35.700	118.000	—	C	—	16.00*	—	PAS	4	PDX	1.7	BRP	2.9	PAS	—		—		—	
1950 30	15:59: 4.00		—	—	36.083	117.967	—	B	—	16.00*	—	PAS	4	BRK	—		3.1	PAS	—		—		3.1	BRK
1950 MAY 7	8:36:26.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	5	BRP	4.3	BRP	—		—		—		4.3	RYC
1950 JUN 5	19: 2:50.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1950 JUL 4	2:51:49.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1950 4	15: 4: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1950 7	6: 0: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1950 11	11: 3:10.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1950 13	11:42: 8.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1950 14	14:39:59.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1950 14	20:26:54.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1950 15	3:53:45.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1950 25	3:14:50.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1950 AUG 23	16:48:16.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1950 SEP 7	8: 7:26.00		—	—	35.750	117.583	—	C	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		—	
1950 9	12:23: 0.00		—	—	35.833	117.700	—	C	—	16.00*	—	PAS	—		1.1	BRP	2.4	PAS	—		—		2.4	BRK
1950 12	13:57: 1.00		—	—	35.833	117.700	—	C	—	16.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		2.6	BRK
1950 13	7:14:29.00		—	—	36.000	117.583	—	C	—	16.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		2.8	BRK
1950 OCT 6	11: 5: 8.00		—	—	36.017	117.750	—	B	—	16.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		2.7	BRK
1950 6	11:47:54.00		—	—	36.017	117.750	—	B	—	16.00*	—	PAS	—		0.9	BRP	2.3	PAS	—		—		2.3	BRK
1950 6	14:52: 0.00		—	—	36.017	117.750	—	B	—	16.00*	—	PAS	4	BRK	1.7	BRP	2.9	PAS	—		—		2.9	BRK
1950 6	14:55:24.00		—	—	36.017	117.750	—	B	—	16.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		2.1	BRK
1950 6	16:38:57.00		—	—	36.017	117.750	—	B	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		2.0	BRK
1950 13	3:48:34.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1950 19	23:13: 7.00		—	—	35.717	117.917	—	C	—	16.00*	—	PAS	1	BRP	—		3.2	PAS	—		—		—	
1950 26	23:51:39.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1950 31	20:28:18.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1950 NOV 6	18:26:58.00		—	—	36.583	115.667	—	C	—	16.00*	—	PAS	4	BRP	—		3.8	PAS	—		—		3.8	BRK
1950 17	21:15:31.00		—	—	36.000	116.417	—	C	—	16.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		2.6	BRK
1950 18	4:57:52.00		—	—	36.000	116.417	—	C	—	16.00*	—	PAS	1	BRP	—		3.5	PAS	—		—		3.5	BRK
1950 23	22:18: 4.00		—	—	36.133	117.967	—	B	—	16.00*	—	PAS	1	BRP	0.1	BRP	1.4	PAS	—		—		1.4	BRK
1950 25	7:18:36.00		—	—	35.783	117.567	—	C	—	16.00*	—	PAS	—		0.8	BRP	2.2	PAS	—		—		2.2	BRK
1950 25	10:34:53.00		—	—	36.133	117.967	—	B	—	16.00*	—	PAS	—		0.3	BRP	1.8	PAS	—		—		1.8	BRK
1950 26	5:52:52.00		—	—	36.033	117.767	—	C	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		2.0	BRK
1950 26	17:56:20.00		—	—	36.133	117.883	—	D	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1950 DEC 3	21:34: 7.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1950 4	9:27:42.00		—	—	35.783	118.000	—	B	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		2.9	BRK
1950 4	9:34:30.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1950 20	9:37:18.00		—	—	36.117	117.983	—	B	—	16.00*	—	PAS	—		0.8	BRP	2.2	PAS	—		—		2.2	BRK

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1950 DEC 26	8:17:37.00		—	—	36.767	115.900	—	C	—	16.00*	—	PAS	3	BRP	3.5	BRP	3.6	PAS	—		—		3.6	BRK
1950 29	13:12:51.00		—	—	35.800	117.950	—	C	—	16.00*	—	PAS	—		1.1	BRP	2.4	PAS	—		—		2.4	BRK
1951 JAN 4	14: 3:57.00		—	—	37.300	118.000	—	C	—	—	—	BRK	1	BRP	2.9	BRP	3.8	BRK	—		—		3.8	PAS
1951 4	14: 6: 6.00		—	—	37.300	118.000	—	C	—	—	—	BRK	—		1.7	BRP	2.9	BRK	—		—		2.9	PAS
1951 29	9:46:27.00		—	—	36.400	117.433	—	B	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		3.2	BRK
1951 30	15:34: 2.00		—	—	35.850	116.433	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1951 FEB 5	13:30:58.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1951 8	15:14:31.00		—	—	35.850	116.433	—	C	—	16.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		2.8	BRK
1951 9	15:46:58.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1951 10	16: 6:12.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1951 11	14:45:23.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1951 11	15:48:16.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1951 14	23:13:23.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1951 MAR 31	2: 1:54.00		—	—	36.033	117.800	—	B	—	16.00*	—	PAS	4	BRK	1.5	BRP	2.7	PAS	—		—		2.7	BRK
1951 APR 24	12:51:34.00		—	—	36.733	116.000	—	C	—	16.00*	—	PAS	2	BRP	3.0	BRP	3.0	PAS	—		—		3.0	BRK
1951 JUN 12	3:13: 9.00		—	—	36.167	117.867	—	B	—	16.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		2.1	BRK
1951 12	14:16: 3.00		—	—	36.167	117.867	—	B	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		2.0	BRK
1951 12	22:21:21.00		—	—	36.167	117.867	—	B	—	16.00*	—	PAS	4	BRK	2.0	BRP	3.1	PAS	—		—		3.1	BRK
1951 13	19:39:36.00		—	—	36.167	117.867	—	B	—	16.00*	—	PAS	4	BRK	1.1	BRP	2.4	PAS	—		—		2.4	BRK
1951 14	9:26: 1.00		—	—	36.400	116.950	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1951 14	22:32:59.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1951 15	6:18:21.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1951 15	15:43:28.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1951 16	5:52:55.32		—	—	37.085	117.213	—		—	8.00*	—	GDY	5	BRP	4.5	BRP	4.5	BRK	—		—		4.5	PAS
1951 16	7:27: 3.00		—	—	37.080	117.080	—	C	—	—	—	BRK	2	BRP	3.0	BRP	3.0	BRK	—		—		3.0	PAS
1951 16	14:48:19.00		—	—	37.080	117.080	—	C	—	—	—	BRK	3	BRP	3.0	BRP	3.1	BRK	—		—		3.1	PAS
1951 16	19:52:55.00		—	—	38.000	116.500	—	D	—	—	—	BRP	—		—		—		—		—		—	
1951 17	7:59:31.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1951 25	19:45:41.68		—	—	35.772	117.948	—	A	—	12.40	—	PAS	5	BRK	4.0	BRP	4.6	PAS	—		—		4.6	BRK
1951 26	1:26:39.12		—	—	35.761	117.953	—	A	—	8.10	—	PAS	4	BRK	3.7	BRP	4.4	PAS	—		—		4.4	BRK
1951 26	2: 0:31.00		—	—	35.783	117.950	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1951 26	2: 6:14.90		—	—	35.774	117.859	—	B	—	8.30	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		—		3.6	BRK
1951 JUL 1	0:16:18.72		—	—	35.745	117.984	—	A	—	4.40	—	PAS	3	BRK	2.8	BRP	3.7	PAS	—		—		3.7	BRK
1951 1	0:57:19.00		—	—	35.783	117.950	—	B	—	16.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		2.7	BRK
1951 2	17:59:16.00		—	—	35.783	117.950	—	B	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		2.9	BRK
1951 3	19: 8: 0.00		—	—	35.783	117.950	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1951 14	22:47:53.00		—	—	35.783	117.950	—		—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		2.9	BRK
1951 18	23:32: 1.00		—	—	35.783	117.950	—		—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		2.9	BRK
1951 28	11:29:38.00		—	—	35.783	117.950	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1951 AUG 13	19:51:44.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1951 13	23: 9:23.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1951 18	1:17:12.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1951 23	12: 4: 7.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1951 29	4:39:35.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1951 30	16:54: 1.00		—	—	36.133	118.000	—	B	—	16.00*	—	PAS	—		1.1	BRP	2.4	PAS	—		—		2.4	BRK
1951 SEP 22	8:50: 4.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1951 24	0:45:17.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1951 OCT 4	9:27:45.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1951 OCT 19	16:57:22.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1951 24	17:27:19.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1951 NOV 6	1:27:48.00		—	—	35.667	118.000	—	C	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1951 18	19:38:18.00		—	—	35.767	118.000	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1951 DEC 30	17:11:36.00		—	—	36.050	117.817	—	C	—	16.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		2.7	BRK
1952 JAN 10	5:32: 0.00		—	—	36.133	117.950	—	B	—	16.00*	—	PAS	4	BRK	1.7	BRP	2.9	PAS	—		—		2.9	BRK
1952 14	0: 7:30.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 24	12:55:46.00		—	—	35.700	116.267	—	C	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1952 29	1:13:16.00		—	—	37.150	117.050	—	C	—	—	—	BRK	3	BRP	3.2	BRP	3.3	BRK	—		—		3.3	PAS
1952 FEB 3	2:25:16.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 3	10: 6:16.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	—		—		—		—		—		—	
1952 8	8:59: 5.00	LM	—	—	36.000	114.700	—	D	—	16.00*	—	PAS	5	BRP	2.4	BRP	3.4	PAS	—		—		3.4	RYC
1952 9	8:21:31.00		—	—	37.000	117.950	—	C	—	—	—	BRK	—		1.2	BRP	2.5	BRK	—		—		2.5	PAS
1952 9	8:43:30.92		—	—	36.607	117.905	—	C	—	8.00*	—	PAS	6	BRK	3.3	BRP	4.1	PAS	—		—		4.1	BRK
1952 9	8:54:46.00		—	—	36.667	117.850	—	C	—	16.00*	—	PAS	1	BRP	2.8	BRP	3.7	PAS	—		—		3.7	BRK
1952 9	19:44:25.00		—	—	36.667	117.850	—	C	—	16.00*	—	PAS	1	BRP	2.8	BRP	3.7	PAS	—		—		3.7	BRK
1952 9	19:50:16.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 10	9:14:47.00		—	—	35.717	117.083	—	C	—	16.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1952 12	20:37: 7.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1952 13	14: 0:11.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 14	7:23:11.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 14	22:19:11.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1952 15	19: 4: 9.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 20	13:24:37.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1952 20	13:41:11.00	LM	—	—	36.000	114.700	—	D	—	16.00*	—	PAS	6	PDX	5.0	BRP	3.6	PAS	—		—		5.0	RWL
1952 20	14:36:41.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 21	11:46:34.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 21	14:20:10.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 21	17:58: 9.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1952 22	16:58:13.00		—	—	35.667	118.000	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1952 28	19:25:17.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1952 MAR 4	17: 0: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1952 12	14:14:59.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 26	11:14:31.00		—	—	35.950	117.817	—	C	—	16.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		3.3	BRK
1952 26	15:31:34.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 APR 8	18:44:24.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1952 MAY 24	4:15:15.44	LM	—	—	35.939	114.732	—		—	8.00*	—	GDY	6	PDX	—		4.9	PAS	—		—		5.0	KKG
1952 24	4:48:12.00	LM	—	—	36.100	114.700	—	D	—	16.00*	—	PAS	4	BRP	3.7	BRP	2.7	PAS	—		—		—	
1952 24	9:52:52.00	LM	—	—	36.100	114.700	—	D	—	16.00*	—	PAS	—		—		3.8	PAS	—		—		—	
1952 25	13: 6: 1.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 25	13: 6:30.00	LM	—	—	36.100	114.700	—	D	—	16.00*	—	PAS	—		—		3.9	PAS	—		—		—	
1952 27	9: 1: 2.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 30	23:21:30.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1952 JUN 1	3:18:55.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 2	9:35:33.00	SIZ	—	—	36.867	115.883	—	C	—	16.00*	—	PAS	3	BRP	3.5	BRP	3.6	PAS	—		—		—	
1952 4	5:25:16.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1952 12	10:51:22.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1952 13	1:48: 5.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	

DATE	ORIGIN TIME	HYPOCENTER											INTENSITY		MAGNITUDE									
(UTC)	HR MN SEC	FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	I	REF	MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1952 JUN 13	5: 2:23.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1952 15	15:23:31.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 20	1: 2: 6.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1952 JUL 12	11:22: 6.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1952 21	15:51:39.00		—	—	35.983	117.933	—	C	—	16.00*	—	PAS	5	PDX	2.9	BRP	3.8	PAS	—		—		3.8	BRK
1952 AUG 10	14:37:50.00		—	—	37.320	117.620	—	C	—	—	—	BRK	1	BRP	2.1	BRP	3.2	BRK	—		—		3.2	PAS
1952 14	19:41:14.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 24	3: 2: 5.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 29	2:51:13.00		—	—	35.933	117.683	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1952 29	6:43:28.00		—	—	35.950	117.633	—	B	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		2.9	BRK
1952 SEP 13	17:45: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 30	9: 0: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 OCT 1	1:37:38.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1952 3	4:12: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 5	17:24:44.00		—	—	35.900	117.700	—	D	—	16.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		2.8	BRK
1952 9	21: 5:34.00		—	—	35.917	117.667	—	C	—	16.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		3.4	BRK
1952 16	21:19: 3.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 18	0: 0: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 18	19:55: 0.00	LM	—	—	36.000	114.800	—		—	—	—	USE	5	USE	—		4.0	RWL	—		—		—	
1952 19	0: 0: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 20	7:26:39.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	6	BRP	5.0	BRP	—		—		—		4.9	RYC
1952 24	4:19:48.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1952 26	0:52:34.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 27	9:35: 5.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 31	11:14:33.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 NOV 1	23:35:48.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 2	12:18: 2.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 5	6:18:38.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 6	20: 5:10.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 24	9: 1:23.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1952 27	14:28:55.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1952 29	1:34:15.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1952 DEC 7	2:49:38.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1953 JAN 29	21:52:48.00		—	—	38.500	118.000	—	D	—	—	—	BRK	—		—		3.6	BRK	—		—		3.6	RYC
1953 FEB 3	18:48:15.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	2	BRP	2.3	BRP	—		—		—		—	
1953 16	3:11:58.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1953 26	3:38:14.00		—	—	35.817	118.000	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1953 28	20:45: 5.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1953 MAR 2	20:46:40.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1953 10	3: 5:20.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1953 25	2:35:46.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1953 26	3: 4:45.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1953 27	20:36:36.00		—	—	35.767	117.983	—	B	—	16.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		3.3	BRK
1953 27	20:37: 8.64		—	—	35.704	117.883	—	C	—	9.90	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		—		3.6	BRK
1953 27	22:27: 2.00		—	—	35.767	117.983	—	B	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	BRK
1953 30	6:28:55.00		—	—	35.883	117.650	—	C	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		3.2	BRK
1953 30	7:15:15.00		—	—	35.883	117.650	—	C	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	BRK
1953 APR 7	1:12: 1.00		—	—	37.900	117.800	—	D	—	—	—	BRK	3	BRP	3.5	BRP	3.5	BRK	—		—		3.5	RYC

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1953 APR 10	23:40: 8.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1953 MAY 3	23:43:32.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1953 6	0:51:31.00		—	—	37.067	118.000	—	B	—	16.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		3.4	BRK
1953 12	22:51:13.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1953 18	7: 3: 0.00	LM	—	—	36.000	114.500	—	D	—	16.00*	—	PAS	1	BRP	1.7	BRP	3.8	PAS	—		—		—	
1953 20	5:35:29.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1953 22	18:28:58.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1953 24	4:48: 8.00	LM	—	—	36.100	114.800	—		—	—	—	RYC	4	RYC	—		—		—		—		—	
1953 25	3:24:55.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	1	BRP	1.7	BRP	—		—		—		—	
1953 JUL 1	1: 3:54.00		—	—	36.000	117.667	—	B	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		2.0	BRK
1953 12	17:19:35.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1953 13	1:42:24.00		—	—	36.900	116.100	—	D	—	16.00*	—	PAS	3	BRP	3.4	BRP	3.4	PAS	—		—		3.4	RYC
1953 13	13: 0: 0.00		—	—	37.500	117.700	—	D	—	—	—	BRK	3	BRK	—		—		—		—		—	
1953 30	21: 7:34.00		—	—	35.783	116.950	—	B	—	16.00*	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		—		3.6	BRK
1953 31	2:56:51.00		—	—	35.800	116.967	—	B	—	16.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		3.3	BRK
1953 AUG 9	22: 0: 2.00		—	—	37.500	114.500	—	D	—	—	—	BRP	5	BRP	3.8	BRP	4.5	PDX	—		—		4.5	KKG
1953 SEP 16	15:41:21.00		—	—	37.330	117.000	—	C	—	—	—	BRK	4	BRP	3.9	BRP	3.9	BRK	—		—		3.9	PAS
1953 19	6:35: 7.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1953 28	15: 8:48.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1953 OCT 9	22:21:13.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1953 10	3:15:28.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1953 11	9:48:48.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1953 NOV 17	12:17:20.00		—	—	36.233	117.950	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1953 24	5:46: 5.42		—	—	35.712	116.954	—		—	8.00*	—	GDY	4	BRK	—		4.9	PAS	—		—		4.9	BRK
1953 24	12:53:14.00		—	—	35.883	116.967	—	C	—	16.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		3.3	BRK
1953 28	13:31:12.00		—	—	35.883	116.967	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1953 29	14:57:49.00		—	—	36.350	117.933	—	C	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		2.9	BRK
1953 DEC 4	7:44:17.00		—	—	35.883	116.967	—	C	—	16.00*	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		—		3.6	BRK
1953 16	7: 3: 9.00		—	—	35.633	117.350	—	C	—	16.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1953 23	3:42:18.00		—	—	37.500	118.000	—	D	—	—	—	BRK	4	BRK	1.1	BRP	2.4	BRK	—		—		2.4	PAS
1953 24	15:55:33.00		—	—	35.983	117.950	—	B	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		2.9	BRK
1953 29	23:48: 3.00		—	—	35.833	117.000	—	C	—	16.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		2.6	BRK
1954 JAN 7	16: 8:34.19		—	—	35.733	117.628	—	A	—	5.10	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		—		3.6	BRK
1954 22	9:27:36.00		—	—	37.320	118.000	—	C	—	—	—	BRK	1	BRP	2.4	BRP	3.4	BRK	—		—		3.4	PAS
1954 FEB 22	4: 3: 7.00		—	—	35.883	116.950	—	B	—	16.00*	—	PAS	1	BRP	2.8	BRP	3.7	PAS	—		—		3.7	BRK
1954 MAR 2	0:11:31.00		—	—	35.833	116.833	—	C	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		2.9	BRK
1954 18	13:20:42.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1954 APR 9	17: 7:38.00		—	—	35.833	116.633	—	C	—	16.00*	—	PAS	2	BRP	3.4	BRP	4.2	PAS	—		—		4.2	BRK
1954 17	10:11:26.00		—	—	35.883	116.967	—	B	—	16.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		3.3	BRK
1954 17	10:11:40.00		—	—	35.883	116.967	—	B	—	16.00*	—	PAS	2	BRP	3.4	BRP	4.2	PAS	—		—		4.2	BRK
1954 20	9:11:30.00		—	—	36.117	117.933	—	B	—	16.00*	—	PAS	4	BRK	1.6	BRP	2.8	PAS	—		—		2.8	BRK
1954 20	9:18:35.00		—	—	36.117	117.933	—	B	—	16.00*	—	PAS	4	BRK	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1954 28	8:43:41.00		—	—	36.983	117.533	—	B	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	BRK
1954 MAY 6	15:51:37.00		—	—	35.733	117.983	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1954 22	15:32:47.00		—	—	35.800	116.983	—	B	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		2.9	BRK
1954 23	11:20:57.00		—	—	35.817	117.583	—	B	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		2.9	BRK
1954 28	8:22:32.00		—	—	36.033	117.700	—	C	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	BRK
1954 29	0:23:29.00		—	—	36.033	117.700	—	C	—	16.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		2.7	BRK

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1954 MAY 29	0:24: 4.00		—	—	36.033	117.700	—	C	—	16.00*	—	PAS	—		1.1	BRP	2.4	PAS	—		—		2.4	BRK
1954 JUN 14	20:43:52.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1954 JUL 2	10:43:13.30		—	—	38.149	116.395	—		—	8.00*	—	GDY	3	RYC	—		4.9	BRK	—		—		4.9	RYC
1954 4	2:44:22.00		—	—	38.000	115.500	—	E	—	—	—	BRP	4	BRP	4.0	BRP	—		—		—		4.0	RYC
1954 17	22: 2:44.26		—	—	38.132	116.342	—		—	8.00*	—	GDY	—		—		4.3	BRK	—		—		4.3	RYC
1954 20	0:11:38.29		—	—	38.184	116.363	—		—	8.00*	—	GDY	—		—		5.0	BRK	—		—		5.0	RYC
1954 28	18:40: 2.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1954 AUG 7	22:33: 9.00		—	—	35.850	117.633	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1954 17	19:33: 6.00		—	—	38.200	116.400	—	D	—	—	—	BRK	—		—		3.8	BRK	—		—		3.8	RYC
1954 SEP 29	3:47:55.33		—	—	37.798	115.713	—		—	8.00*	—	GDY	5	BRP	4.4	BRP	—		—		—		4.4	RYC
1954 NOV 15	0:20: 0.00		—	—	37.650	118.000	—	D	—	—	—	BRK	4	BRK	—		—		—		—		—	
1954 17	7:23:57.36		—	—	36.390	117.910	—	B	—	9.80	—	PAS	5	BRK	3.3	BRP	4.1	PAS	—		—		4.1	BRK
1954 26	8:49:21.00		—	—	36.150	117.750	—	C	—	16.00*	—	PAS	5	BRK	2.2	BRP	3.3	PAS	—		—		3.3	BRK
1954 27	2:33:17.00		—	—	36.150	117.750	—	C	—	16.00*	—	PAS	4	BRK	2.1	BRP	3.2	PAS	—		—		3.2	BRK
1955 JAN 4	4:47:54.00		—	—	36.167	117.917	—	C	—	16.00*	—	PAS	4	BRK	2.1	BRP	3.2	PAS	—		—		3.2	BRK
1955 10	10: 7: 0.00		—	—	37.000	114.500	—	D	—	16.00*	—	PAS	5	PDX	3.7	BRP	4.4	PAS	—		—		4.4	KKG
1955 21	12:21: 1.50		—	—	36.791	117.980	—		—	1.00	—	PDX	4	PDX	—		4.0	PDX	—		—		—	
1955 MAR 17	3:30:46.00		—	—	36.200	115.200	—	D	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1955 MAY 25	22: 0:28.00		—	—	36.133	117.867	—	B	—	16.00*	—	PAS	4	BRK	2.4	BRP	3.4	PAS	—		—		3.4	BRK
1955 AUG 7	10: 5:41.78		—	—	35.896	117.918	—	A	—	1.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1955 11	12:23:57.00		—	—	35.733	117.583	—	B	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	
1955 SEP 6	20:56:11.00		—	—	38.500	117.500	—	D	—	—	—	BRK	—		—		3.5	BRK	—		—		3.5	RYC
1955 NOV 20	10:55: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	—		—		—		—		—		—	
1956 JAN 9	12:57: 1.00		—	—	35.667	116.033	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1956 APR 27	22:39:27.00		—	—	38.220	118.000	—	B	—	—	—	BRK	—		—		3.4	BRK	—		—		3.4	RYC
1956 MAY 27	14:45: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1956 29	16: 2: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1956 JUL 11	19:22: 5.76		—	—	35.729	117.882	—		—	8.00*	—	GDY	4	BRK	—		4.2	PAS	—		—		4.2	BRK
1956 23	10:43:35.28		—	—	35.946	117.787	—	A	—	5.70	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		3.4	BRK
1956 AUG 12	4: 4: 6.00		—	—	38.100	117.900	—	D	—	—	—	BRK	4	BRP	4.0	BRP	4.0	BRK	—		—		4.0	RYC
1956 SEP 22	5: 6: 0.00		—	—	35.850	116.600	—	D	—	—	—	BRK	—		—		—		—		—		—	
1956 OCT 28	14:40:38.00		—	—	36.050	117.767	—	B	—	16.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		3.4	BRK
1956 NOV 30	8:23: 5.00		—	—	36.000	117.000	—	C	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		2.9	BRK
1957 MAR 8	13:24:57.92		—	—	35.687	117.515	—	A	—	2.00*	—	PAS	4	PDX	3.2	BRP	4.0	PAS	—		—		—	
1957 APR 2	19: 7: 2.16		—	—	35.654	117.380	—	A	—	1.00*	—	PAS	1	BRP	2.9	BRP	3.8	PAS	—		—		—	
1957 6	6: 2:52.00		—	—	35.733	117.217	—	B	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	
1957 13	4:52:13.00		—	—	35.733	117.217	—	B	—	16.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1957 AUG 31	15:58: 8.00		—	—	36.183	117.917	—	B	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		3.2	BRK
1957 OCT 4	12: 0:36.90		—	—	35.831	117.961	—		—	6.00	—	PDX	—		—		3.9	PDX	—		—		—	
1957 NOV 6	9:38:57.00		—	—	35.883	117.350	—	B	—	16.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		3.3	BRK
1958 APR 19	9: 1: 2.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	6	BRP	5.0	BRP	—		—		—		4.9	RYC
1958 MAY 3	17:35:57.00		—	—	37.900	118.000	—	D	—	—	—	BRK	5	BRP	4.1	BRP	4.1	BRK	—		—		4.1	PAS
1958 JUL 25	14: 2:13.00		—	—	36.033	117.683	—	C	—	16.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		3.3	BRK
1958 AUG 15	18: 0:24.00		—	—	36.033	117.967	—	C	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	BRK
1958 16	5:44: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1958 17	5:15: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1958 22	12: 8:23.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1958 25	18:33: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1958 OCT 30	23: 0: 0.00	SIZ	—	—	37.190	116.200	—		—	—	—	RYC	—		—		—		—		—		—	
1959 JAN 5	12:36: 3.00		—	—	36.133	117.967	—		—	—	—	ISC	—		—		—		—		—		—	
1959 7	0:20:41.00		—	—	35.767	117.583	—	B	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		3.2	BRK
1959 7	2: 7:19.00		—	—	35.767	117.583	—	B	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	BRK
1959 7	20: 4:40.00		—	—	35.767	117.583	—	B	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	BRK
1959 9	6:41: 5.00		—	—	35.767	117.583	—	B	—	16.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		3.3	BRK
1959 12	12:36: 6.00		—	—	36.150	117.983	—		—	—	—	ISC	—		—		—		—		—		—	
1959 16	0:10: 6.00		—	—	36.133	117.983	—		—	—	—	ISC	—		—		—		—		—		—	
1959 19	21:46: 0.00		—	—	36.133	117.967	—		—	—	—	ISC	—		—		—		—		—		—	
1959 28	18: 9: 4.00		—	—	36.800	116.200	—	C	—	16.00*	—	PAS	4	BRP	4.0	BRP	4.0	PAS	—		—		4.0	BRK
1959 FEB 27	16:47:27.00		—	—	35.867	117.367	—	C	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		—	
1959 27	17: 1:47.00		—	—	35.883	117.233	—	C	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		—	
1959 MAR 5	5:59:37.00		—	—	35.617	117.150	—	C	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	
1959 13	22:24:18.00	SIZ	—	—	37.100	116.100	—	D	—	16.00*	—	PAS	—		—		3.5	PAS	—		—		3.5	RYC
1959 APR 24	16:53:10.00		—	—	36.983	117.967	—	C	—	16.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		3.4	BRK
1959 25	12:16:25.00		—	—	37.050	118.000	—	B	—	—	—	BRK	1	BRP	2.6	BRP	3.6	BRK	—		—		3.6	PAS
1959 JUN 9	10:53: 0.00	LM	—	—	36.000	114.800	—	H	—	—	—	BRP	4	BRP	3.7	BRP	—		—		—		—	
1959 18	6: 1:40.00		—	—	36.183	118.000	—	B	—	16.00*	—	PAS	4	BRK	1.5	BRP	2.7	PAS	—		—		2.7	BRK
1959 23	6:25:35.00		—	—	36.150	117.970	—	B	—	—	—	BRK	—		—		3.8	BRK	—		—		—	
1959 JUL 16	10:31:45.00		—	—	38.500	118.000	—	D	—	—	—	BRK	—		—		3.4	BRK	—		—		3.4	RYC
1959 21	0:36:42.00		—	—	36.600	117.133	—	C	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1959 AUG 28	1:52:38.00		—	—	38.000	118.000	—	E	—	—	—	BRP	5	BRP	4.3	BRP	—		—		—		—	
1959 SEP 15	11:36:24.00		—	—	36.033	117.833	—	B	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	BRK
1959 17	8:11:15.78		—	—	35.937	117.907	—	A	—	1.00*	—	PAS	1	BRP	2.9	BRP	3.8	PAS	—		—		3.8	BRK
1959 17	8:37:57.00		—	—	36.033	117.833	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1959 17	15:37: 3.00		—	—	36.000	117.833	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1959 26	1:57:23.00		—	—	35.917	117.450	—	C	—	16.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		3.2	BRK
1959 27	0:21:50.00		—	—	36.033	117.917	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1959 OCT 1	11:53: 3.00		—	—	35.683	117.583	—	C	—	16.00*	—	PAS	—		0.9	BRP	2.3	PAS	—		—		—	
1959 15	10:19:56.38		—	—	35.790	117.668	—	A	—	2.70	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		—		3.6	BRK
1959 19	5:45:12.00		—	—	35.783	117.550	—	B	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	BRK
1959 21	0: 6:45.00		—	—	38.000	118.000	—	D	—	—	—	BRK	4	BRP	3.7	BRP	3.8	BRK	—		—		—	
1959 21	6: 6:45.00		—	—	38.000	118.000	—		—	—	—	RYC	—		—		—		—		—		3.8	RYC
1959 24	16: 9:33.00		—	—	35.750	117.883	—	B	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1959 24	19:58:20.60		—	—	35.753	117.999	—		—	5.00	—	PDX	—		—		3.4	PDX	—		—		—	
1959 29	20:28:14.00		—	—	35.700	118.000	—	B	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	
1959 NOV 12	14:51: 4.00		—	—	35.683	117.967	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1959 16	12: 5:34.90		—	—	35.733	118.000	—		—	10.00*	—	PDX	—		—		2.8	PDX	—		—		—	
1959 16	12:15:23.00		—	—	35.750	118.000	—	C	—	16.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1959 23	20: 2:41.00		—	—	35.783	117.600	—	B	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	BRK
1959 DEC 24	11:24:12.00	SIZ	—	—	37.000	116.000	—		—	0.00*	—	KKG	—		—		—		—		—		4.3	KKG
1960 JAN 11	19: 8:40.00		—	—	37.167	117.983	—	B	—	16.00*	—	PAS	1	BRP	2.8	BRP	3.7	PAS	—		—		3.7	BRK
1960 21	14:29:56.00		—	—	38.470	117.880	—	C	—	—	—	BRK	—		—		4.2	BRK	—		—		4.2	RYC
1960 21	15:27:21.00		—	—	38.470	117.880	—	C	—	—	—	BRK	—		—		4.1	BRK	—		—		4.1	RYC
1960 26	4:17:19.40		—	—	36.654	115.946	—		—	8.00*	—	GDY	6	BRP	4.9	BRP	4.9	BRK	—		—		4.9	PAS
1960 MAR 29	9:58:11.00		—	—	35.967	117.367	—	C	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1960 MAY 9	6:42:31.00		—	—	37.750	117.750	—		—	—	—	RYC	—		—		—		—		—		2.0	RYC
1960 AUG 17	9: 5:48.00		—	—	38.150	117.970	—	B	—	—	—	BRK	—		—		3.1	BRK	—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1960 OCT 16	23: 5:59.00		—	—	35.750	117.333	—	C	—	16.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		—	
1960 NOV 13	7:52:58.00		—	—	35.750	118.000	—	B	—	16.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		—	
1961 JAN 1	14:27:26.00		—	—	35.717	118.000	—	B	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	
1961 28	17: 2:11.10		—	—	35.770	117.962	—		—	7.00	—	PDX	—		—		3.6	PDX	—		—		—	
1961 MAR 27	9: 0:38.95		—	—	36.743	116.178	—		—	8.00*	—	GDY	5	BRP	4.4	BRP	4.4	PAS	—		—		4.4	BRK
1961 27	9:15: 6.00		—	—	36.600	116.300	—	D	—	16.00*	—	PAS	3	BRP	3.5	BRP	3.6	PAS	—		—		3.6	BRK
1961 APR 11	18:23:19.00		—	—	38.470	117.830	—	B	—	—	—	BRK	—		—		3.4	BRK	—		—		—	
1961 25	21:58:44.83		—	—	36.202	117.853	—	B	—	1.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1961 26	1:30:25.00		—	—	36.217	118.000	—	B	—	16.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		2.7	BRK
1961 MAY 2	10:11:56.00		—	—	35.717	117.417	—	B	—	16.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1961 29	1:48:43.00		—	—	35.683	117.717	—	B	—	16.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		—	
1961 JUL 20	16:25:48.00		—	—	37.970	117.870	—	C	—	—	—	BRK	—		—		3.4	BRK	—		—		—	
1961 28	13:12:30.00		—	—	35.737	117.966	—		—	2.00	—	PDX	1	BRP	2.2	BRP	3.3	PDX	—		—		—	
1961 AUG 6	13:57:13.98		—	—	35.965	116.907	—	C	—	8.20	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		3.3	BRK
1961 SEP 28	8:28:29.48		—	—	35.782	117.418	—	B	—	1.00*	—	PAS	2	BRP	3.0	BRP	3.9	PAS	—		—		3.9	BRK
1961 OCT 1	17:16:32.00		—	—	36.500	117.000	—	D	—	—	—	BRK	2	BRP	3.4	BRP	4.2	BRK	—		—		—	
1961 1	17:16:41.00		—	—	37.500	117.830	—	C	—	—	—	BRK	4	BRP	3.7	BRP	3.8	BRK	—		—		3.8	PAS
1961 2	7: 4: 0.00		—	—	37.500	117.830	—	C	—	—	—	BRK	3	BRP	3.0	BRP	3.1	BRK	—		—		3.1	PAS
1961 2	12:49:37.00		—	—	37.080	117.620	—	C	—	—	—	BRK	3	BRP	3.0	BRP	3.5	BRK	—		—		3.1	PAS
1961 2	16:22:28.00		—	—	37.470	117.530	—	B	—	—	—	BRK	3	BRP	3.2	BRP	3.7	BRK	—		—		3.3	PAS
1961 13	11:49:47.72		—	—	35.745	117.240	—	B	—	9.10	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		—	
1961 19	5: 1: 1.93		—	—	35.833	117.813	—	B	—	3.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		3.4	BRK
1961 19	5: 9:44.71		—	—	35.864	117.891	—		—	8.00*	—	GDY	7	PDX	5.1	BRP	5.2	PAS	—		—		5.2	BRK
1961 19	6:29:56.00		—	—	35.833	117.767	—	C	—	16.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		—	
1961 24	6:31: 6.00		—	—	37.600	117.900	—	D	—	—	—	BRK	—		—		3.2	BRK	—		—		—	
1961 31	0: 0:42.95		—	—	36.459	117.957	—	C	—	1.60	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.6	BRK
1961 NOV 1	17: 2:47.32		—	—	36.167	117.781	—	B	—	12.50	—	PAS	—		1.6	BRP	2.8	PAS	—		—		2.8	BRK
1961 26	2:38: 2.00		—	—	35.833	116.367	—	C	—	16.00*	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		—		3.6	BRK
1961 DEC 3	23:27: 6.00	CPDX	—	—	37.045	116.028	—		—	—	—	PDX	—		—		—		—		—		—	
1961 19	21:53: 7.00		—	—	37.700	117.800	—	D	—	—	—	BRK	—		—		3.4	BRK	—		—		—	
1961 22	5:47: 0.00		—	—	35.800	116.400	—	D	—	16.00*	—	PAS	1	BRP	2.9	BRP	3.8	PAS	—		—		3.8	BRK
1962 JAN 19	2: 0:34.99		—	—	35.808	117.575	—	B	—	1.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		2.7	BRK
1962 21	10:15:11.20		—	—	37.420	115.010	—		—	—	—	ALX	—		—		—		—		—		2.4	ALX
1962 MAR 5	18: 0: 0.10	SIZ	—	—	37.111	116.048	—		—	—	—	PDX	—		—		—		—		—		—	
1962 15	11:36: 9.00		—	—	36.600	115.900	—	D	—	16.00*	—	PAS	2	BRP	3.0	BRP	3.0	PAS	—		—		3.0	BRK
1962 30	16:51:50.50		—	—	35.960	115.260	—		—	—	—	ALX	—		—		—		—		—		2.1	ALX
1962 31	13:27:14.20		—	—	38.100	115.940	—		—	—	—	ALX	—		—		—		—		—		2.4	ALX
1962 APR 15	14:24:25.20		—	—	38.160	115.920	—		—	—	—	ALX	—		—		—		—		—		2.3	ALX
1962 23	4:20:10.50		—	—	38.170	116.000	—		—	—	—	ALX	—		—		—		—		—		2.9	ALX
1962 23	5:45:42.50		—	—	38.200	116.040	—		—	—	—	ALX	—		—		—		—		—		1.8	ALX
1962 23	6:48:47.00		—	—	37.840	117.070	—		—	—	—	ALX	—		—		—		—		—		2.3	ALX
1962 23	9: 2: 7.70		—	—	37.480	115.120	—		—	—	—	ALX	—		—		—		—		—		2.5	ALX
1962 29	18:45: 0.70		—	—	38.230	116.030	—		—	—	—	ALX	—		—		—		—		—		2.5	ALX
1962 MAY 6	6:50:19.60		—	—	36.850	115.640	—		—	—	—	ALX	—		—		—		—		—		1.9	ALX
1962 8	19:30:33.99		—	—	36.032	117.689	—	B	—	1.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		2.9	BRK
1962 14	13:41:59.20		—	—	36.090	115.250	—		—	—	—	ALX	—		—		—		—		—		2.6	ALX
1962 JUN 6	19:46: 2.90		—	11	37.770	117.650	—	C	—	—	—	BRK	—		—		3.7	BRK	—		—		—	
1962 24	18:17:53.00		—	—	36.183	117.750	—	C	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	BRK

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1962 JUN 24	18:18:28.00		—	—	36.183	117.750	—	C	—	16.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	BRK
1962 JUL 8	15:58:15.80		—	—	37.700	115.200	—	C	—	33.00*	—	BRP	—		—		—		—		—		—	
1962 AUG 17	11: 3:53.66		—	—	35.949	117.981	—	B	—	5.40	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		3.2	BRK
1962 SEP 19	18:50:30.60		—	—	35.800	118.000	—	B	—	—	—	BRK	1	BRP	2.0	BRP	3.1	BRK	—		—		—	
1962 20	17:12:38.70	CSNL	—	—	37.430	115.650	—		—	—	—	ALX	—		—		—		—		—		3.5	ALX
1962 23	21:29:44.00		—	—	37.600	117.400	—	D	—	—	—	BRK	3	BRP	3.0	BRP	3.1	BRK	—		—		3.1	PAS
1962 OCT 17	17:20:34.90	LM	—	—	35.900	114.760	—		—	—	—	ALX	—		—		—		—		—		3.0	ALX
1962 25	17:34:53.90		—	—	36.230	115.190	—		—	—	—	ALX	—		—		—		—		—		2.7	ALX
1962 NOV 13	6:35:30.40		—	16	37.700	117.920	—	C	—	—	—	BRK	—		—		3.7	BRK	—		—		—	
1962 16	20:15:50.20		—	—	37.120	114.960	—		—	—	—	ALX	—		—		—		—		—		2.9	ALX
1962 27	11:44:11.90		—	—	37.590	114.750	—		—	—	—	ALX	—		—		—		—		—		3.5	ALX
1962 DEC 8	7:22: 7.00		—	—	37.410	117.430	—		—	—	—	ALX	—		—		—		—		—		2.4	ALX
1963 JAN 1	10:28: 7.70		—	8	36.970	117.070	—	C	—	—	—	BRK	—		—		3.6	BRK	—		—		—	
1963 1	18:37:49.52		—	—	36.073	117.963	—	B	—	5.10	—	PAS	—		1.7	BRP	2.9	PAS	—		—		2.9	BRK
1963 7	12: 9:54.20		—	—	36.980	117.450	—		—	—	—	ALX	—		—		—		—		—		2.5	ALX
1963 25	7:31:49.60		—	—	37.240	117.260	—		—	—	—	ALX	—		—		—		—		—		2.5	ALX
1963 FEB 27	12:57:50.00		—	5	35.920	117.760	—	D	—	—	—	BRK	1	BRP	2.5	BRP	3.5	BRK	—		—		—	
1963 MAR 25	9:28:42.77	LM	—	—	36.018	114.771	—		—	8.00*	—	GDY	6	PDX	5.0	BRP	4.9	PAS	—		4.3	PDX	4.6	KKG
1963 26	4:29:42.00	LM	—	—	36.000	114.900	—	D	—	16.00*	—	PAS	—		—		3.2	PAS	—		—		3.2	RYC
1963 APR 1	20:37: 9.00	LM	—	—	36.100	114.800	—		—	16.00*	—	PAS	—		—		3.3	PAS	—		—		3.3	RYC
1963 2	9:40:45.00	LM	—	—	36.200	114.900	—		—	16.00*	—	PAS	—		—		3.3	PAS	—		—		3.3	RYC
1963 18	17:30: 9.60		—	—	37.780	117.400	—		—	—	—	ALX	—		—		—		—		—		2.4	ALX
1963 19	3:21: 9.66		—	—	35.772	117.992	—	B	—	5.40	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		—		3.6	BRK
1963 23	8:13: 0.00	LM	—	—	36.000	115.000	—		—	—	—	CVH	5	CVH	—		4.0	RWL	—		—		—	
1963 26	4:18:48.00	LM	—	—	36.000	114.900	—	D	—	16.00*	—	PAS	—		—		3.2	PAS	—		—		3.2	RYC
1963 27	2:29:18.60		—	—	37.340	114.900	—		—	—	—	ALX	—		—		—		—		—		2.0	ALX
1963 27	3: 0:15.40		—	—	37.220	117.230	—		—	—	—	ALX	—		—		—		—		—		2.2	ALX
1963 27	9:57:55.20		—	—	37.210	117.180	—		—	—	—	ALX	—		—		—		—		—		2.5	ALX
1963 29	9:30:36.00		—	—	38.000	117.300	—	D	—	16.00*	—	PAS	—		—		3.3	PAS	—		—		3.3	RYC
1963 MAY 4	10:48: 8.60	SIZ	—	—	37.260	115.940	—		—	—	—	ALX	—		—		—		—		—		2.7	ALX
1963 6	14:43:14.50		—	—	36.820	116.110	—		—	—	—	ALX	—		—		—		—		—		2.5	ALX
1963 13	19:25: 9.90	LM	—	—	36.300	114.610	—		—	—	—	ALX	—		—		—		—		—		2.5	ALX
1963 16	16: 9:56.00		—	—	36.150	117.840	—		—	—	—	ALX	—		—		—		—		—		2.1	ALX
1963 18	7:17:42.90		—	—	36.480	115.740	—		—	—	—	ALX	—		—		—		—		—		1.8	ALX
1963 18	20:58:52.50	LM	—	—	36.100	114.700	—	C	—	5.00*	—	BRP	—		—		—		—		4.4	PDX	—	
1963 21	18:38:55.00		—	—	38.330	115.020	—		—	—	—	ALX	—		—		—		—		—		1.9	ALX
1963 24	10:44:52.70		—	—	37.530	115.380	—		—	—	—	ALX	—		—		—		—		—		2.5	ALX
1963 25	0:39:47.10	SIZ	—	—	37.240	116.160	—		—	—	—	ALX	—		—		—		—		—		2.2	ALX
1963 26	10:10:13.10		—	—	37.680	115.000	—		—	—	—	ALX	—		—		—		—		—		1.7	ALX
1963 26	19:44:50.00		—	12	38.200	118.000	—		—	—	—	BRK	—		—		3.7	BRK	—		—		—	
1963 29	15:12:42.20	CSNL	—	—	37.050	116.120	—		—	—	—	ALX	—		—		—		—		—		2.6	ALX
1963 JUN 5	22: 1:27.10		—	—	36.840	115.330	—		—	—	—	ALX	—		—		—		—		—		2.9	ALX
1963 11	18:17: 8.20	LM	—	—	36.170	114.690	—		—	—	—	ALX	—		—		—		—		—		2.2	ALX
1963 JUL 7	16:55:11.60		—	—	38.190	115.780	—		—	—	—	ALX	—		—		—		—		—		1.8	ALX
1963 9	7:56:24.10		—	—	37.670	115.880	—		—	—	—	ALX	—		—		—		—		—		2.6	ALX
1963 11	18:30: 4.50	SIZ	—	—	37.030	115.960	—		—	—	—	ALX	—		—		—		—		—		2.1	ALX
1963 18	4: 1:16.30		—	—	37.200	115.600	—	C	—	25.00*	—	BRP	4	BRP	3.0	BRP	—		—		3.9	PDX	3.9	KKG
1963 18	6:33:24.10		—	—	37.200	115.500	—	C	—	25.00*	—	BRP	—		—		—		—		3.9	PDX	—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1963 JUL 20	11:48:35.70		—	—	37.500	117.620	—		—	—	—	ALX	—		—		—		—		—		1.9	ALX
1963 20	19:13: 5.90		—	—	37.100	115.600	—	C	—	25.00*	—	BRP	5	BRP	4.0	BRP	—		—		4.1	PDX	4.1	KKG
1963 26	10: 4:57.20		—	—	37.120	115.450	—		—	—	—	ALX	—		—		—		—		—		2.5	ALX
1963 28	23:46:39.40		—	—	37.370	115.320	—		—	—	—	ALX	—		—		—		—		—		2.4	ALX
1963 AUG 14	19: 2:33.90		—	—	36.610	115.590	—		—	—	—	ALX	—		—		—		—		—		2.6	ALX
1963 24	10:49: 6.89		—	—	36.128	117.688	—	B	—	8.10	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		3.7	PDX	—	
1963 24	19:58:34.40		—	—	36.167	117.640	—	C	—	2.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		3.3	BRK
1963 26	22:45:59.20		—	—	36.097	117.856	—	C	—	10.90	—	PAS	—		0.9	BRP	2.3	PAS	—		—		2.3	BRK
1963 SEP 1	15:39: 0.00		—	—	37.500	115.600	—	D	—	16.00*	—	PAS	—		—		3.4	PAS	—		—		—	
1963 14	12:28:13.50		—	—	35.819	117.973	—		—	5.00	—	PDX	—		—		3.4	PDX	—		—		—	
1963 OCT 8	20: 1:22.60		—	—	37.480	115.070	—		—	—	—	ALX	—		—		—		—		—		3.1	ALX
1963 8	22:41:31.20		—	—	37.250	115.250	—		—	—	—	ALX	—		—		—		—		—		2.4	ALX
1963 9	8:17:37.20		—	—	37.180	114.760	—		—	—	—	ALX	—		—		—		—		—		1.8	ALX
1963 28	5:35:15.94		—	—	35.992	117.914	—	B	—	1.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		2.7	BRK
1963 NOV 4	1:32:37.49		—	—	35.754	117.730	—	B	—	1.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		—	
1963 8	21:53:45.20		—	—	36.244	117.850	—	B	—	1.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		2.6	BRK
1963 8	23:29:43.34		—	—	35.820	117.619	—	B	—	1.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		3.4	BRK
1963 16	11:58:41.50		—	—	38.100	117.000	—		—	0.00*	—	KKG	—		—		—		—		—		4.0	KKG
1963 16	12:56:36.40		—	—	38.200	117.100	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1963 16	14:23:43.20		—	—	38.100	117.000	—		—	0.00*	—	KKG	—		—		—		—		—		3.7	KKG
1963 16	16:48:10.20		—	2	38.000	117.090	—		—	—	—	BRK	5	BRP	4.0	BRP	4.0	BRK	—		4.0	PDX	—	
1963 16	17:40: 2.70		—	—	38.100	117.000	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1963 16	19:17:55.70		—	—	38.000	117.100	—	C	—	15.00*	—	BRP	—		—		—		—		—		—	
1963 16	22:51:25.80		—	—	38.000	117.000	—	C	—	15.00*	—	BRP	5	BRP	4.0	BRP	—		—		4.1	PDX	4.1	KKG
1963 17	2:32:49.00		—	—	38.000	117.100	—	C	—	15.00*	—	BRP	—		—		—		—		—		—	
1963 DEC 6	13:54:22.12		—	—	36.449	117.910	—	C	—	1.00*	—	PAS	4	BRK	2.9	BRP	3.8	PAS	—		4.1	PDX	3.8	BRK
1964 JAN 16	18: 8:40.20	CPDX	—	—	37.100	116.000	—		—	—	—	PDX	—		—		—		—		—		—	
1964 23	16:39:45.30	CPDX	—	7	37.000	116.000	—		—	—	—	PDX	—		—		—		—		—		—	
1964 28	10:43:55.10		—	11	38.480	117.810	—		—	—	—	BRK	—		—		3.4	BRK	—		—		—	
1964 30	16: 0: 1.80	SIZ	—	—	37.126	116.130	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 FEB 6	16:17:49.54	HE	—	—	37.303	116.247	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 12	15:37:59.52	SIZ	—	—	37.030	116.121	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 13	15:30: 2.10	SIZ	—	—	37.142	115.985	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 13	16:20:35.00		—	5	36.500	117.000	—		—	—	—	ISC	—		—		—		—		—		—	
1964 15	2: 7:12.00		—	—	36.167	118.000	—	D	—	16.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1964 15	15:47: 9.13		—	—	36.986	117.949	—		—	8.00*	—	GDY	—		—		—		—		—		3.5	GDY
1964 18	15:37:20.60	SIZ	—	—	37.045	116.007	—		—	8.00*	—	GDY	—		—		—		—		4.7	ISC	4.7	GDY
1964 18	15:51:46.77	CSNL	—	—	36.965	115.961	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 18	17:17:15.00	SIZ	—	4	37.100	116.100	—		—	—	—	ISC	—		—		—		—		—		—	
1964 20	16:48: 8.50	CPDX	—	—	37.200	116.000	—		—	—	—	PDX	—		—		—		—		—		—	
1964 22	3:31:25.90		—	—	37.000	116.500	—	C	—	33.00*	—	BRP	—		—		—		—		—		—	
1964 22	12:44:19.13		—	—	36.634	116.401	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 24	10:53:52.75		—	—	35.756	116.620	—	C	—	10.40	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1964 25	18:40:25.41	HE	—	—	36.953	116.466	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 27	18:17:54.60	HE	—	—	37.200	116.300	—	C	—	30.00*	—	BRP	—		—		—		—		—		—	
1964 MAR 5	20:33:44.00		—	3	36.600	116.800	—		—	—	—	ISC	—		—		—		—		—		—	
1964 10	1:56:19.00		—	7	36.600	116.900	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1964 12	15: 0: 2.70	SIZ	—	—	37.076	115.940	—		—	8.00*	—	GDY	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1964 MAR 17	22:58:55.00		—	5	36.000	116.900	—		—	—	—	ISC	—		—		—		—		—		—	
1964 21	14:53:26.00		—	3	37.400	117.800	—		—	—	—	ISC	—		—		—		—		—		—	
1964 24	18:45: 5.00		—	4	36.500	116.000	—		—	—	—	ISC	—		—		—		—		—		—	
1964 28	3:33:46.83		—	—	35.824	114.919	—		—	8.00*	—	GDY	4	PDX	3.7	BRP	—		—		—		—	
1964 APR 16	8: 3:20.06	LM	—	—	36.181	114.658	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 17	16:17: 6.00		—	6	36.100	115.800	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1964 25	7:20:13.01	CSNL	—	—	37.080	116.053	—		—	8.00*	—	GDY	—		—		—		—		4.9	ISC	4.9	GDY
1964 29	20:57:14.80	CSNL	—	—	37.040	116.030	—		—	—	—	ISC	—		—		—		—		—		—	
1964 MAY 6	13:45:41.00		—	3	37.300	114.700	—		—	—	—	ISC	—		—		—		—		—		—	
1964 7	12:39:24.10		—	—	36.310	115.060	—		—	—	—	ALX	—		—		—		—		—		2.4	ALX
1964 14	14:44: 6.40	CPDX	—	5	37.000	116.100	—		—	—	—	PDX	—		—		—		—		—		—	
1964 15	16:25:39.30	CPDX	—	9	37.100	115.900	—		—	—	—	PDX	—		—		—		—		—		—	
1964 29	1:11: 7.78		—	—	37.343	114.595	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	—		—		3.5	BRP	3.6	KKG
1964 30	18:35:51.16		—	—	37.179	115.563	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 JUN 8	2: 6:22.00		—	6	38.000	116.200	—		—	—	—	ISC	—		—		—		—		—		—	
1964 12	14: 1: 1.44	SIZ	—	—	37.026	116.037	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 15	6:24:18.00		—	3	37.500	115.500	—		—	—	—	ISC	—		—		—		—		—		—	
1964 15	12: 1:31.63		—	—	37.456	114.656	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 15	16: 4: 3.20		—	—	37.430	117.940	—		—	—	—	ALX	—		—		—		—		—		2.7	ALX
1964 18	13:30: 1.95	SIZ	—	—	37.181	116.114	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 24	15: 6:18.00		—	9	36.800	116.700	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1964 25	14: 8:38.00	CSNL	—	10	37.100	116.100	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1964 JUL 7	6:39:21.62		—	—	36.084	117.601	—	C	—	1.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		3.3	BRK
1964 8	3:15:24.30		—	—	37.340	115.110	—		—	—	—	ALX	—		—		—		—		—		2.1	ALX
1964 16	14:18: 6.40	CPDX	—	—	37.200	116.100	—		—	—	—	PDX	—		—		—		—		—		—	
1964 31	9:42:35.70		—	4	36.700	117.000	—		—	—	—	ISC	—		—		—		—		—		—	
1964 AUG 21	22: 3:51.60		—	—	37.000	115.000	—	C	—	33.00*	—	BRP	4	BRP	3.0	BRP	—		—		3.8	PDX	3.8	KKG
1964 24	1:20:36.00		—	4	37.000	116.500	—		—	—	—	ISC	—		—		—		—		—		—	
1964 30	6:41:15.10		—	—	37.220	115.050	—		—	—	—	ALX	—		—		—		—		—		2.1	ALX
1964 SEP 4	18:35: 4.30	CPDX	—	—	37.000	116.000	—		—	—	—	PDX	—		—		—		—		—		—	
1964 11	14: 0: 0.00		—	5	37.200	114.800	—		—	—	—	ISC	—		—		—		—		—		—	
1964 16	5:34:29.22		—	—	37.114	114.910	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 22	6: 5: 0.00	LM	—	—	36.000	114.900	—	G	—	—	—	BRP	—		—		—		—		—		—	
1964 23	17: 9:38.84	LM	—	—	35.940	114.829	—		—	8.00*	—	GDY	5	PDX	4.0	BRP	4.4	PAS	—		4.4	PDX	4.4	KKG
1964 24	7:17:22.70	LM	—	—	35.950	114.640	—		—	—	—	ALX	—		—		—		—		—		2.2	ALX
1964 30	5: 1:16.80	LM	—	—	35.900	114.720	—		—	—	—	ALX	—		—		—		—		—		2.3	ALX
1964 OCT 4	21:31: 4.70		—	—	37.310	114.800	—		—	—	—	ALX	—		—		—		—		—		2.7	ALX
1964 16	16: 9:40.43		—	—	35.939	117.275	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 30	17:44:56.52		—	—	37.992	117.838	—		—	8.00*	—	GDY	—		—		3.5	BRK	—		—		3.5	GDY
1964 30	17:50:38.00		—	14	37.500	117.500	—		—	—	—	BRK	—		—		4.1	BRK	—		—		—	
1964 30	19: 1:43.99		—	—	37.505	117.860	—		—	8.00*	—	GDY	—		—		—		—		—		3.5	GDY
1964 30	19: 3: 9.30		—	14	37.500	117.800	—		—	—	—	BRK	6	PDX	5.0	BRP	4.5	BRK	—		4.4	PDX	4.5	PAS
1964 30	19:14:25.00		—	6	37.500	117.900	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1964 30	19:19:45.00		—	5	37.500	117.800	—		—	—	—	ISC	—		—		—		—		—		—	
1964 30	19:40:28.75		—	—	37.835	117.823	—		—	8.00*	—	GDY	—		—		3.5	BRK	—		—		3.5	PAS
1964 30	23: 2:59.50		—	—	37.700	118.000	—	C	—	20.00*	—	BRP	5	BRP	4.0	BRP	—		—		4.0	BRP	—	
1964 31	11:57:31.70		—	—	38.200	117.800	—		—	—	—	BRK	—		—		3.7	BRK	—		—		3.5	PAS
1964 31	18:41:22.52		—	—	36.733	116.720	—		—	8.00*	—	GDY	—		—		—		—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1964 OCT 31	19:35:24.70		—	—	38.000	117.800	—		—	—	—	BRK	4	BRP	3.0	BRP	4.0	BRK	—		4.0	PDX	4.0	PAS
1964 31	21:37:27.11		—	—	38.001	117.814	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 NOV 1	19: 2:27.31		—	—	37.498	117.824	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 1	20:41: 7.70		—	—	38.000	117.700	—		—	—	—	BRK	4	BRP	3.0	BRP	3.9	BRK	—		3.8	PDX	3.5	PAS
1964 2	1:15:53.90	LM	—	—	36.170	114.730	—		—	—	—	ALX	—		—		—		—		—		2.4	ALX
1964 2	3:13: 3.10		—	5	37.100	117.600	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1964 2	11:38:53.43		—	—	37.593	117.981	—		—	8.00*	—	GDY	—		—		4.4	BRK	—		4.4	PDX	4.4	PAS
1964 2	14: 4:39.59		—	—	38.012	117.731	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 3	18:58:42.23		—	—	37.606	117.953	—		—	8.00*	—	GDY	4	BRP	3.5	BRP	4.1	BRK	—		4.1	PDX	3.5	PAS
1964 4	11:53:49.77		—	—	37.474	117.937	—		—	8.00*	—	GDY	—		—		—		—		—		3.0	GDY
1964 12	20: 7:25.40		—	—	37.700	118.000	—		—	—	—	BRK	3	BRP	3.0	BRP	3.8	BRK	—		3.8	PDX	4.0	PAS
1964 13	5: 4:59.60		—	14	37.530	117.200	—		—	—	—	BRK	4	BRP	4.0	BRP	4.1	BRK	—		4.2	PDX	4.1	PAS
1964 23	23:52:10.91		—	—	37.614	117.973	—		—	8.00*	—	GDY	2	BRP	3.2	BRP	4.4	BRK	—		4.2	PDX	4.0	PAS
1964 DEC 1	15:28:19.60		—	—	37.883	117.800	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	3.7	BRK	—		3.7	PDX	3.7	GDY
1964 2	9:17:47.39		—	—	37.526	117.979	—		—	8.00*	—	GDY	1	BRP	2.5	BRP	3.9	BRK	—		3.9	PDX	3.5	PAS
1964 2	23:43:42.05		—	—	37.938	117.991	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 5	14:11:23.64		—	—	38.051	117.797	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 5	23:19:28.50	CPDX	—	—	37.100	116.100	—		—	—	—	PDX	—		—		—		—		—		—	
1964 6	8:50:26.20		—	—	37.610	117.970	—		—	—	—	ALX	—		—		—		—		—		2.4	ALX
1964 7	16:20:33.99		—	—	36.878	117.174	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 12	15: 6: 5.00		—	4	36.500	117.500	—		—	—	—	ISC	—		—		—		—		—		—	
1964 14	8:15:40.03		—	—	37.980	117.824	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	3.5	PAS	—		3.6	PDX	3.5	GDY
1964 20	21:56: 3.84	LM	—	—	35.914	114.881	—		—	8.00*	—	GDY	3	BRP	3.0	BRP	3.6	PAS	—		—		3.6	GDY
1964 20	22:18:21.70	LM	—	—	35.900	114.800	—	C	—	5.00*	—	BRP	—		—		—		—		—		—	
1964 23	18:42:44.20		—	—	37.390	115.112	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1964 29	21: 0: 0.00		—	—	37.100	117.300	—	G	—	—	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1965 JAN 12	1:37:53.74		—	—	37.356	117.592	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1965 14	16:24: 2.00	CSNL	—	12	37.200	116.200	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1965 15	17:27: 7.60		—	—	35.810	115.170	—		—	—	—	ALX	—		—		—		—		—		2.1	ALX
1965 21	7: 5:52.36		—	—	37.808	117.962	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1965 22	10:24:37.30		—	9	37.210	117.840	—		—	—	—	BRK	1	BRP	2.5	BRP	3.5	BRK	—		—		—	
1965 29	18:22: 1.58	SIZ	—	—	37.027	116.053	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1965 29	18:26:15.00	CSNL	—	7	36.600	116.100	—		—	—	—	ISC	—		—		—		—		—		—	
1965 FEB 3	22:32:25.69		—	—	35.842	117.307	—	B	—	1.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		2.6	BRK
1965 4	7:24: 8.63		—	—	36.191	117.623	—	B	—	5.60	—	PAS	—		1.2	BRP	2.5	PAS	—		—		2.5	BRK
1965 11	1:35:58.84		—	—	37.091	117.859	—		—	8.00*	—	GDY	1	BRP	2.5	BRP	3.5	BRK	—		—		3.5	GDY
1965 12	13:29:19.00		—	8	37.700	115.900	—		—	—	—	ISC	—		—		—		—		4.0	ISC	—	
1965 16	17:49:20.84	CSNL	—	—	37.048	116.142	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1965 MAR 13	6:49:34.10		—	—	36.770	115.640	—		—	—	—	ALX	—		—		—		—		—		2.3	ALX
1965 13	12:13:41.20		—	—	36.730	116.290	—		—	—	—	ALX	—		—		—		—		—		2.3	ALX
1965 20	15:23:48.90	SIZ	—	—	37.100	116.000	—		—	10.20*	9.80	ALX	—		—		—		—		—		3.5	ALX
1965 26	8:29:42.00		—	7	35.800	115.400	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1965 26	16:29:40.17	CSNL	—	—	36.715	116.064	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1965 29	23: 8:22.10		—	—	35.920	117.270	—		—	—	—	ALX	—		—		—		—		—		2.2	ALX
1965 APR 5	22: 3:19.00	CSNL	—	5	37.800	115.000	—		—	—	—	ISC	—		—		—		—		—		—	
1965 12	8:41:39.88		—	—	36.306	117.795	—		—	8.00*	—	GDY	—		1.8	BRP	3.0	BRK	—		2.9	PDX	2.9	KKG
1965 21	22: 7:23.34	CSNL	—	—	37.062	116.211	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1965 22	13:39: 1.82	SIZ	—	—	37.080	116.065	—		—	8.00*	—	GDY	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1965 MAY 3	3:30:50.94	LM	—	—	35.988	114.750	—		—	8.00*	—	GDY	3	BRP	3.0	BRP	4.2	PAS	—		3.9	PDX	3.9	KKG
1965 14	18:46:24.70	CSNL	—	—	37.060	116.010	—		—	—	—	ISC	—		—		—		—		—		—	
1965 15	6:25: 2.68	LM	—	—	35.947	114.774	—		—	8.00*	—	GDY	3	BRP	3.0	BRP	—		—		3.8	PDX	3.8	KKG
1965 19	11:50:39.13		—	—	38.333	115.918	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1965 21	13:51:51.80	CPDX	—	—	37.100	116.000	—		—	—	—	PDX	—		—		—		—		—		—	
1965 21	17:50:33.27		—	—	37.854	117.785	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1965 25	0:48:11.43		—	—	37.109	117.228	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	3.8	BRK	—		3.8	PDX	3.8	KKG
1965 28	8:18:49.83		—	—	37.026	117.329	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	3.8	BRK	—		3.8	PDX	3.8	KKG
1965 JUN 1	6:30:10.50		—	—	37.340	116.010	—		—	—	—	ALX	—		—		—		—		—		2.3	ALX
1965 5	14:12:43.00		—	5	38.000	117.900	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1965 18	8:14: 1.04	SIZ	—	—	37.286	116.059	—		—	8.00*	—	GDY	3	BRP	3.0	BRP	—		—		3.3	PDX	3.3	KKG
1965 30	4: 2: 5.20		—	—	37.470	116.360	—		—	—	—	ALX	—		—		—		—		—		2.1	ALX
1965 JUL 1	15:16:51.90		—	—	36.990	116.810	—		—	—	—	ALX	—		—		—		—		—		2.8	ALX
1965 2	3:46:26.90		—	—	37.190	116.700	—		—	—	—	ALX	—		—		—		—		—		2.5	ALX
1965 22	13:21:10.10	SIZ	—	—	37.200	115.980	—		—	11.20*	8.20	ALX	—		—		—		—		—		2.4	ALX
1965 24	0:42: 5.40	CPDX	—	—	37.100	116.000	—		—	—	—	PDX	—		—		—		—		—		—	
1965 AUG 7	16:34: 7.23		—	—	36.027	117.964	—	B	—	1.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		3.0	BRK
1965 SEP 19	16:20: 0.00		—	—	36.060	117.890	—		—	—	—	ALX	—		—		—		—		—		2.6	ALX
1965 NOV 17	3:45:41.00		—	—	37.530	115.160	—		—	—	—	ALX	—		—		—		—		—		2.2	ALX
1965 17	9:41:28.30		—	—	37.600	115.200	—		—	16.00*	—	PAS	4	BRP	3.0	BRP	3.5	PAS	—		3.7	PDX	3.7	KKG
1965 DEC 14	11:39:33.62		—	—	35.967	117.727	—	C	—	50.00*	—	PAS	—		0.8	BRP	2.2	PAS	—		—		2.2	BRK
1965 16	21:42:55.00	CPDX	—	—	37.100	116.100	—		—	—	—	PDX	—		—		—		—		—		—	
1965 24	5:47:36.21		—	—	35.791	116.875	—	C	—	1.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		2.8	BRK
1965 25	15:38:38.32		—	—	35.821	116.791	—	C	—	8.10	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		4.0	PDX	3.5	BRK
1965 25	15:43:18.95		—	—	35.777	116.830	—	C	—	1.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		2.8	BRK
1965 25	15:48:37.44		—	—	35.740	116.914	—	C	—	1.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1965 25	16: 9:44.34		—	—	35.819	116.807	—	C	—	4.70	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		4.3	ISC	3.6	BRK
1965 25	16:49:39.11		—	—	35.703	116.974	—	C	—	1.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		4.0	PDX	4.0	KKG
1965 25	18:59:53.80	SIZ	—	—	37.000	116.300	—	C	—	33.00*	—	BRP	4	BRP	3.0	BRP	—		—		4.1	PDX	4.1	KKG
1965 25	21:37:27.32		—	—	35.814	116.843	—	C	—	9.40	—	PAS	—		1.6	BRP	2.8	PAS	—		4.0	PDX	2.8	BRK
1965 26	7:44:54.42		—	—	35.769	116.895	—	C	—	1.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		4.1	PDX	2.6	BRK
1965 27	3:15:39.05		—	—	35.798	116.807	—	C	—	1.00*	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		4.5	PDX	3.6	BRK
1965 27	23: 7:13.37		—	—	35.774	116.910	—	C	—	1.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		3.2	BRK
1965 28	15:37:11.47		—	—	35.763	116.889	—	C	—	1.00*	—	PAS	1	BRP	2.5	BRP	3.5	PAS	—		—		3.5	BRK
1965 28	15:51:21.48		—	—	35.792	116.869	—	C	—	1.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		3.4	BRK
1966 JAN 8	11: 4: 2.00		—	5	38.500	117.700	—		—	—	—	BRK	—		—		3.5	BRK	—		—		—	
1966 13	3:40:39.01		—	—	36.080	117.865	—		—	8.00*	—	GDY	4	PDX	2.0	BRP	3.1	PAS	—		3.2	PAS	3.1	GDY
1966 13	3:46:37.71		—	—	36.101	117.890	—		—	8.00*	—	GDY	—		1.5	BRP	2.7	PAS	—		—		2.7	GDY
1966 18	7:41:52.46		—	—	36.431	117.979	—	B	—	1.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1966 21	19: 3:19.30	CPDX	—	5	37.000	115.800	—		—	—	—	PDX	—		—		—		—		3.4	PDX	—	
1966 22	15:17: 4.00		—	4	36.500	114.700	—		—	—	—	ISC	—		—		—		—		4.1	ISC	—	
1966 FEB 7	17:55:36.33		—	—	36.577	117.852	—		—	8.00*	—	GDY	1	BRP	2.4	BRP	3.4	PAS	—		3.5	PDX	3.5	KKG
1966 MAR 18	20: 3:40.00	CSNL	—	—	37.009	116.009	—		—	—	—	ISC	—		—		—		—		—		—	
1966 APR 6	17:56:30.27		—	—	37.293	115.358	—		—	8.00*	—	GDY	5	BRP	4.0	BRP	—		—		4.1	PDX	4.1	KKG
1966 8	2:54:57.78		—	—	37.263	115.433	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1966 MAY 19	15:37:17.90	CPDX	—	13	37.000	116.100	—		—	—	—	PDX	—		—		—		—		4.5	PDX	—	
1966 20	7:31: 9.37		—	—	36.055	117.377	—		—	8.00*	—	GDY	1	BRP	2.5	BRP	3.5	PAS	—		3.9	PDX	3.9	KKG
1966 27	20:52:32.90	CPDX	—	5	37.200	116.200	—		—	—	—	PDX	—		—		—		—		3.9	PDX	—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1966 JUN 1	12:28:18.31		—	—	37.639	117.746	—		—	8.00*	—	GDY	3	BRP	3.2	BRP	3.2	PAS	—		—		3.2	GDY
1966 3	15:31:57.40	CPDX	—	8	37.100	116.000	—		—	—	—	PDX	—		—		—		—		—		—	
1966 20	19:58:54.40		—	—	38.000	117.900	—	C	—	5.00*	—	BRP	—		—		—		—		—		—	
1966 JUL 1	1:33:35.60	CPDX	—	8	37.200	116.100	—		—	—	—	PDX	—		—		—		—		3.9	PDX	—	
1966 15	9: 5:25.00		—	4	37.700	116.400	—		—	—	—	BRK	—		—		3.4	BRK	—		—		—	
1966 23	22:55:58.30	LM	—	—	35.900	114.900	—	C	—	8.00*	—	BRP	—		—		—		—		—		—	
1966 AUG 16	18: 2:36.50	CLMT	—	—	37.395	114.206	1.8		—	7.00*	—	ROG	6	PDX	—		6.0	PAS	—		5.6	PDX	6.1	ROG
1966 16	19:50:10.70	CLMT	—	—	37.375	114.186	1.8		—	7.00*	—	ROG	5	ERS	—		4.5	PAS	—		4.6	PDX	4.6	ERS
1966 16	20:34:48.91	CLMT	—	—	37.340	114.216	0.8		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 16	21: 6:17.91	CLMT	—	—	37.338	114.119	3.8		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 16	21:30:30.41	CLMT	—	—	37.485	114.575	5.1		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 17	2:37: 3.67	CLMT	—	—	37.326	114.187	3.8		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 17	19:14:58.99	CLMT	—	—	37.336	114.218	6.9		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 17	23: 8: 0.16	CLMT	—	—	37.355	114.207	0.2		—	7.00*	—	ROG	2	ERS	—		5.5	BRK	—		4.9	PDX	5.2	ERS
1966 17	23:27:24.34	CLMT	—	—	37.304	114.524	14.1		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 18	6:15: 1.95	CLMT	—	—	37.316	114.237	3.1		—	7.00*	—	ROG	5	ERS	—		4.5	PAS	—		4.2	PDX	4.7	ERS
1966 18	9:28:58.26	CLMT	—	—	37.288	114.211	3.4		—	7.00*	—	ROG	—		—		3.8	BRK	—		3.7	PDX	3.8	GDY
1966 18	10:43:37.53	CLMT	—	—	37.210	114.204	0.9		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 18	12: 0:36.30	CLMT	—	—	37.291	114.270	0.7		—	7.00*	—	ROG	4	ERS	—		4.4	BRK	—		4.2	PDX	4.4	ERS
1966 18	13:33:22.46	CLMT	—	—	37.344	114.236	0.4		—	7.00*	—	ROG	5	ERS	—		4.4	BRK	—		4.3	PDX	4.6	ERS
1966 18	19:57:40.30	CLMT	—	—	37.201	114.234	2.9		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 18	21:23:59.04	CLMT	—	—	37.330	114.235	6.6		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 19	0:18:57.23	CLMT	—	—	37.341	114.242	9.8		—	7.00*	—	ROG	5	ERS	—		4.3	BRK	—		4.7	PDX	4.7	ERS
1966 19	1:27:18.11	CLMT	—	—	37.282	114.230	14.7		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 19	2: 8: 6.99	CLMT	—	—	37.294	114.211	8.0		—	7.00*	—	ROG	—		—		3.6	BRK	—		3.9	PDX	3.9	ERS
1966 19	7:57:53.54	CLMT	—	—	37.315	114.220	17.8		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 19	10:51:41.39	CLMT	—	—	37.374	114.211	2.4		—	7.00*	—	ROG	5	ERS	—		4.7	UTH	—		4.2	PDX	4.5	ERS
1966 19	11:17:49.77	CLMT	—	—	37.298	114.135	9.4		—	7.00*	—	ROG	5	ERS	—		3.6	BRK	—		4.4	PDX	4.4	ERS
1966 20	0:29:40.00		—	—	38.000	118.000	—		—	—	—	BRK	—		—		3.2	BRK	—		—		—	
1966 21	7:39:51.70		—	—	37.300	114.600	—	C	—	33.00*	—	BRP	—		—		—		—		—		—	
1966 22	8:27:30.84	CLMT	—	—	37.295	114.231	2.0		—	7.00*	—	ROG	6	ERS	—		4.6	BRK	—		4.3	PDX	4.8	ERS
1966 22	19: 5:44.33	CLMT	—	—	37.303	114.221	2.2		—	7.00*	—	ROG	—		—		3.8	BRK	—		—		3.8	GDY
1966 24	4:54:33.13	CLMT	—	—	37.318	114.222	1.1		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 31	8:58:16.97	CLMT	—	—	37.263	114.223	0.6		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 31	12:42:39.82	CLMT	—	—	37.321	114.258	2.0		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 SEP 2	19: 5:53.59	CLMT	—	—	37.266	114.330	16.4		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 5	16: 8:31.32	CLMT	—	—	37.270	114.278	19.0		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 6	9:38: 2.00		—	7	37.300	114.600	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1966 6	12:31:43.00		—	6	37.300	114.700	—		—	66.00*	—	ISC	—		—		—		—		—		—	
1966 18	3:14:39.52		—	—	35.919	117.962	—	C	—	1.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		3.9	PDX	—	
1966 22	18:56:41.56	CLMT	—	—	37.316	114.214	1.1		—	7.00*	—	ROG	6	ERS	—		5.3	PAS	—		4.5	PDX	5.0	ERS
1966 22	18:57:34.07	CLMT	—	—	37.369	114.183	65.7		—	7.00*	—	ROG	5	ERS	—		5.8	BRK	—		5.3	PDX	5.3	ERS
1966 22	19: 9:16.47	CLMT	—	—	37.376	114.284	0.9		—	7.00*	—	ROG	—		—		4.0	BRK	—		—		—	
1966 22	19:59:40.74	CLMT	—	—	37.381	114.197	2.7		—	7.00*	—	ROG	6	ERS	—		4.7	BRK	—		4.4	PDX	4.7	ERS
1966 23	11:56:10.85	CLMT	—	—	37.328	114.237	—		—	7.00*	—	ROG	5	ERS	—		4.6	BRK	—		4.5	PDX	4.5	ERS
1966 26	13:40:56.00		—	7	37.500	114.600	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1966 30	18:19:37.00		—	15	37.200	114.700	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1966 OCT 9	0:37:29.00		—	6	37.300	114.700	—		—	33.00*	—	ISC	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1966 OCT 16	13:13:37.37		—	—	35.757	117.804	—	C	—	14.90	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1966 18	6:13:47.75	CLMT	—	—	37.169	114.790	16.1		—	7.00*	—	ROG	4	BRP	3.0	BRP	—		—		3.7	BRP	—	
1966 18	17:58:13.70		—	—	37.300	114.500	—	C	—	33.00*	—	BRP	—		—		—		—		—		—	
1966 27	12:37:49.00		—	7	37.300	114.600	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1966 29	4:35:57.70		—	6	37.370	114.700	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1966 NOV 18	15:15: 5.00	CPDX	—	14	37.000	116.000	—		—	—	—	PDX	—		—		—		—		—		—	
1966 22	7:20:33.53	CLMT	—	—	37.296	114.222	13.5		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 29	1:11:52.89	CLMT	—	—	37.270	114.288	8.0		—	7.00*	—	ROG	—		—		—		—		—		—	
1966 DEC 20	16:52:28.70	SIZ	—	—	37.300	116.600	—	C	—	33.00*	—	BRP	4	BRP	3.0	BRP	—		—		3.9	PDX	—	
1966 20	18: 4: 2.72	SIZ	—	—	37.392	116.485	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	3.7	BRK	—		3.8	PDX	3.8	GDY
1966 21	1:19:59.42		—	—	37.444	116.325	—		—	8.00*	—	GDY	3	BRP	3.0	BRP	—		—		2.9	PDX	2.9	GDY
1966 21	2:14:24.20	SIZ	—	—	37.258	116.492	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	—		—		3.5	PDX	3.5	GDY
1966 21	6: 2: 3.32	SIZ	—	—	37.256	116.515	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	—		—		3.4	PDX	3.4	GDY
1966 21	12:58:57.65		—	—	37.462	116.313	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	—		—		3.9	PDX	3.9	GDY
1966 21	14:37:27.43	SIZ	—	—	37.325	116.410	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	—		—		3.6	PDX	3.6	GDY
1966 21	19: 3:40.09	SIZ	—	—	37.176	116.467	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1966 22	7: 5:21.65		—	—	37.563	116.274	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1966 22	12:59:12.93	SIZ	—	—	37.404	116.336	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	—		—		3.4	PDX	3.4	GDY
1966 22	16: 1:54.75		—	—	37.324	116.118	—		—	8.00*	—	GDY	—		—		—		—		3.3	PDX	3.3	GDY
1966 22	17:30: 1.70	SIZ	—	—	37.339	116.430	—		—	8.00*	—	GDY	6	BRP	5.0	BRP	—		—		4.9	PDX	4.9	GDY
1966 23	4:57: 7.88	SIZ	—	—	37.426	116.340	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1966 30	18:52:37.90	SIZ	—	—	37.300	116.500	—	C	—	33.00*	—	BRP	4	BRP	3.0	BRP	—		—		3.2	PDX	—	
1967 JAN 3	7: 6:35.21	SIZ	—	—	37.286	116.469	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	—		—		3.6	PDX	3.6	GDY
1967 5	12:15:21.78	SIZ	—	—	37.281	116.416	—		—	8.00*	—	GDY	5	BRP	4.3	BRP	4.2	PDX	—		4.0	PDX	4.0	GDY
1967 12	6:10:36.00		—	7	36.800	118.000	—		—	—	—	BRK	1	BRP	2.0	BRP	3.1	BRK	—		—		—	
1967 19	19:40:10.46		—	—	36.505	117.898	—	B	—	12.50	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1967 21	1:46:17.88	SIZ	—	—	37.289	116.524	—		—	8.00*	—	GDY	3	BRP	3.0	BRP	—		—		3.3	PDX	3.3	GDY
1967 FEB 13	8: 5:59.07	LM	—	—	36.029	114.682	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1967 14	1: 8:24.97	SIZ	—	—	37.344	116.465	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	3.6	PDX	—		3.9	PDX	3.9	GDY
1967 23	21:11:33.10	CPDX	—	24	37.127	116.066	—		—	—	—	PDX	—		—		—		—		4.7	PDX	—	
1967 24	10:17:13.00		—	4	36.500	116.000	—		—	—	—	BRK	—		—		3.2	BRK	—		—		—	
1967 26	13:52:57.40	LM	—	—	36.300	114.500	—	A	—	33.00*	—	BRP	—		—		—		—		—		—	
1967 MAR 2	14:12:49.56		—	—	36.388	117.668	—		—	8.00*	—	GDY	5	BRK	3.7	BRP	4.4	PAS	—		4.7	PDX	4.5	BRK
1967 2	14:18:45.00		—	—	36.467	117.667	—	C	—	10.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		—	
1967 2	14:19:11.67		—	—	36.538	117.466	—	C	—	5.80	—	PAS	—		0.9	BRP	2.3	PAS	—		—		—	
1967 2	14:19:54.72		—	—	36.469	117.665	—	B	—	11.70	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	
1967 2	14:21:21.00		—	—	36.467	117.667	—	C	—	10.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1967 2	14:22: 6.55		—	—	36.444	117.645	—	B	—	10.90	—	PAS	—		1.1	BRP	2.4	PAS	—		—		—	
1967 2	15:16:50.33		—	—	36.403	117.736	—	B	—	13.80	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1967 APR 19	19:56:31.83		—	—	36.985	117.908	—	C	—	6.50	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		3.0	BRK
1967 20	22:27:43.00		—	8	36.800	117.400	—		—	—	—	BRK	1	BRP	2.6	BRP	3.6	BRK	—		—		—	
1967 26	9:27:56.00		—	6	36.900	118.000	—		—	—	—	BRK	—		1.8	BRP	3.0	BRK	—		—		—	
1967 MAY 1	12:14:29.60	LM	—	—	36.000	114.700	—	A	—	9.00*	—	BRP	—		—		—		—		—		—	
1967 7	18: 1:36.10		—	—	37.000	115.000	—	A	—	20.00*	—	BRP	4	PDX	5.0	BRP	5.1	PDX	—		4.7	PDX	4.7	KKG
1967 7	18: 9:15.40		—	—	37.100	115.100	—	A	—	33.00*	—	BRP	—		—		—		—		—		—	
1967 9	0:42:25.90		—	—	37.000	115.000	—	A	—	33.00*	—	BRP	4	BRP	3.0	BRP	—		—		4.0	PDX	3.9	KKG
1967 10	13:48:54.56		—	—	36.159	117.866	—	B	—	10.00*	—	PAS	—		1.1	BRP	2.4	PAS	—		—		—	
1967 22	13:48:13.50		—	6	37.200	117.600	—		—	—	—	BRK	1	BRP	2.6	BRP	3.6	BRK	—		—		3.6	PAS

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1967 MAY 23	17:52: 4.00	SIZ	—	—	37.300	116.400	—		—	16.00*	—	PAS	4	BRP	3.0	BRP	3.6	PAS	—		4.0	PDX	—	
1967 23	20:14: 7.00	SIZ	—	—	37.200	116.400	—		—	16.00*	—	PAS	5	BRP	4.0	BRP	4.1	PAS	—		4.6	PDX	—	
1967 25	22: 6:30.00		—	6	37.100	117.500	—		—	—	—	BRK	—		1.8	BRP	3.7	BRK	—		4.4	PDX	3.0	PAS
1967 29	13:20:18.30		—	4	37.000	117.800	—		—	—	—	BRK	1	BRP	2.1	BRP	3.2	BRK	—		—		—	
1967 30	18:28:16.20		—	10	38.210	117.500	—		—	—	—	ISC	—		—		—		—		—		—	
1967 JUN 1	0:35:46.14	SIZ	—	—	37.257	116.548	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	—		—		3.6	PDX	3.6	GDY
1967 1	9:42:20.95	SIZ	—	—	37.324	116.358	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1967 3	3:30:46.00		—	5	38.400	117.300	—		—	—	—	BRK	—		—		3.3	BRK	—		—		—	
1967 7	7:31:18.70	SIZ	—	—	37.300	116.500	—	A	—	33.00*	—	BRP	4	BRP	3.0	BRP	—		—		3.5	PDX	—	
1967 26	2:25:58.11		—	—	36.121	117.849	—		—	8.00*	—	GDY	—		1.7	BRP	2.9	PAS	—		—		2.9	GDY
1967 29	12:31:48.01		—	—	36.015	117.288	—	B	—	10.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1967 JUL 9	15:41:40.04		—	—	37.106	117.891	—		—	8.00*	—	GDY	1	BRP	2.5	BRP	3.5	BRK	—		—		3.5	GDY
1967 27	2:21: 0.93		—	—	35.806	116.835	—	C	—	15.40	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	
1967 AUG 6	7:27:52.20		—	5	37.060	117.880	—		—	—	—	BRK	1	BRP	2.0	BRP	3.1	BRK	—		—		—	
1967 8	17:52:11.93	SIZ	—	—	37.241	116.512	—		—	8.00*	—	GDY	3	BRP	3.0	BRP	—		—		3.2	PDX	3.2	GDY
1967 9	6:45: 5.82	SIZ	—	—	37.242	116.530	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	3.8	BRK	—		3.9	PDX	3.1	PAS
1967 9	15:41:41.90		—	—	37.100	117.900	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1967 18	4:27:19.69		—	—	36.473	117.622	—	B	—	7.80	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1967 18	20:12:40.20		—	9	37.190	116.760	—		—	—	—	BRK	—		—		4.4	BRK	—		—		—	
1967 SEP 2	20:25:43.30		—	12	37.580	117.960	—		—	—	—	BRK	—		—		3.8	BRK	—		—		—	
1967 11	5: 5:33.00		—	—	38.000	118.000	—		—	—	—	BRK	—		—		3.0	BRK	—		—		—	
1967 20	4:51:21.14		—	—	37.173	115.158	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1967 OCT 16	18:41:56.90		—	—	36.383	117.507	—	B	—	11.80	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		—	
1967 27	1:25:40.76		—	—	37.132	117.613	—	B	—	1.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1967 27	1:42:28.12		—	—	37.354	117.549	—		—	8.00*	—	GDY	—		1.5	BRP	2.7	PAS	—		—		2.7	GDY
1967 NOV 1	4:37:35.00		—	—	37.300	114.800	—	A	—	33.00*	—	BRP	—		—		—		—		—		—	
1967 1	7:41:38.90		—	—	37.400	114.600	—	A	—	33.00*	—	BRP	—		—		—		—		—		—	
1967 11	14:24:26.40		—	6	37.060	117.700	—		—	—	—	BRK	1	BRP	2.2	BRP	3.3	BRK	—		—		—	
1967 21	17:25: 8.49		—	—	37.198	117.370	—		—	8.00*	—	GDY	—		—		3.3	BRK	—		—		3.3	GDY
1967 29	17:29: 3.48		—	—	35.647	117.495	—	C	—	3.70	—	PAS	4	PDX	2.2	BRP	3.3	PAS	—		—		—	
1967 DEC 6	1:33: 3.30		—	—	37.058	115.296	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	—		—		3.7	PDX	3.7	KKG
1967 11	2:35:19.39		—	—	37.172	115.173	—		—	8.00*	—	GDY	3	BRP	3.0	BRP	—		—		3.3	PDX	3.3	KKG
1967 31	17:10:28.34		—	—	35.657	117.555	—	B	—	1.00*	—	PAS	—		0.5	BRP	2.0	PAS	—		—		—	
1968 JAN 1	9:28: 5.00		—	6	38.000	118.000	—		—	—	—	BRK	—		—		3.2	BRK	—		—		—	
1968 4	9:45:43.08		—	—	36.481	117.004	—		—	8.00*	—	GDY	2	BRP	3.2	BRP	4.0	BRK	—		—		3.6	GDY
1968 4	9:46:42.59		—	—	36.497	117.017	—	C	—	6.70	—	PAS	1	BRP	2.6	BRP	3.6	PAS	—		4.1	PDX	4.1	KKG
1968 15	12:37:39.35		—	—	36.055	117.858	—	B	—	10.00*	—	PAS	—		0.8	BRP	2.2	PAS	—		—		—	
1968 15	13:36:15.54		—	—	36.001	117.852	—	C	—	4.70	—	PAS	—		0.8	BRP	2.2	PAS	—		—		—	
1968 FEB 5	19:32:57.15		—	—	36.137	117.809	—	B	—	8.10	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1968 5	20:11:17.56		—	—	36.140	117.818	—	C	—	1.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		—	
1968 5	20:16:49.10		—	—	36.157	117.810	—	B	—	10.10	—	PAS	—		0.8	BRP	2.2	PAS	—		—		—	
1968 6	1:46:21.74		—	—	36.144	117.815	—	B	—	10.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1968 6	2:15:39.16		—	—	36.146	117.824	—	B	—	10.80	—	PAS	—		0.5	BRP	2.0	PAS	—		2.0	PDX	—	
1968 6	4:19:40.02		—	—	36.143	117.825	—	B	—	1.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		—	
1968 6	4:30:37.19		—	—	36.149	117.823	—	B	—	6.60	—	PAS	—		0.7	BRP	2.1	PAS	—		—		—	
1968 9	17:41: 4.04		—	—	36.072	117.859	—	B	—	10.00*	—	PAS	—		0.8	BRP	2.2	PAS	—		—		—	
1968 MAR 1	11: 5:31.06	SIZ	—	—	37.329	116.226	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	—		—		3.5	PDX	3.5	GDY
1968 3	2: 9:40.39	SIZ	—	—	36.730	115.905	—		—	8.00*	—	GDY	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1968 MAR 6	3:18:16.00		—	—	36.500	115.800	—	A	—	33.00*	—	BRP	—		—		—		—		—		—	
1968 6	8:33: 1.00		—	7	37.100	117.900	—		—	—	—	BRK	—		—		3.2	BRK	—		—		—	
1968 6	8:43: 9.17		—	—	37.001	117.833	—		—	8.00*	—	GDY	—		1.7	BRP	3.3	BRK	—		—		2.9	PAS
1968 11	7:17:12.00		—	—	36.700	116.600	—	A	—	33.00*	—	BRP	—		—		—		—		—		—	
1968 11	7:17:14.69		—	—	37.196	115.374	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1968 11	7:17:23.00		—	9	36.800	115.800	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1968 11	7:34:21.14		—	—	37.147	115.468	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	—		—		3.6	PDX	3.6	KKG
1968 13	3:11:21.20		—	—	35.783	116.577	—	C	—	1.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1968 APR 12	6:40:10.00		—	—	36.900	114.500	—	A	—	33.00*	—	BRP	4	BRP	3.0	BRP	—		—		3.4	PDX	3.4	KKG
1968 13	18:10:47.84		—	—	38.264	117.697	—		—	8.00*	—	GDY	—		—		3.7	BRK	—		—		3.7	GDY
1968 26	15:14:52.00	SIZ	—	7	37.138	116.198	—		—	33.00	—	PDX	—		—		—		—		5.1	PDX	—	
1968 26	15:32:21.00	SIZ	—	23	37.239	116.526	—		—	17.00	—	PDX	—		—		—		—		4.9	PDX	—	
1968 26	16:35:17.65	SIZ	—	—	37.316	116.440	—		—	8.00*	—	GDY	—		—		—		—		4.9	PDX	4.9	GDY
1968 26	18:47:29.46	SIZ	—	—	37.046	116.228	—		—	8.00*	—	GDY	—		—		—		—		3.6	PDX	3.6	GDY
1968 26	20:42:18.41	SIZ	—	—	37.293	116.457	—		—	8.00*	—	GDY	—		—		—		—		4.0	PDX	4.0	GDY
1968 28	4:23:40.00	SIZ	—	15	37.205	116.481	—		—	33.00	—	PDX	—		—		—		—		4.0	PDX	—	
1968 28	16:35:24.00	SIZ	—	8	37.138	116.395	—		—	33.00	—	PDX	—		—		—		—		3.7	PDX	—	
1968 30	7:49: 3.00	SIZ	—	18	37.291	116.298	—		—	33.00	—	PDX	—		—		—		—		4.2	PDX	—	
1968 MAY 1	10:50:38.73	SIZ	—	—	37.249	116.472	—		—	8.00*	—	GDY	—		—		—		—		3.8	PDX	3.8	GDY
1968 1	10:55:11.77	SIZ	—	—	37.228	116.446	—		—	8.00*	—	GDY	—		—		—		—		3.8	PDX	3.8	GDY
1968 3	0:38:28.58	SIZ	—	—	37.327	116.390	—		—	8.00*	—	GDY	—		—		—		—		3.7	PDX	3.7	GDY
1968 4	3:33: 9.10		—	—	36.135	117.612	—	B	—	1.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1968 4	23:28:43.86	SIZ	—	—	37.214	116.454	—		—	8.00*	—	GDY	—		—		—		—		3.7	PDX	3.7	GDY
1968 4	23:31:10.47	SIZ	—	—	37.235	116.557	—		—	8.00*	—	GDY	—		—		—		—		3.6	PDX	3.6	GDY
1968 15	16: 1:12.20	SIZ	—	—	37.209	116.540	—		—	8.00*	—	GDY	—		—		—		—		3.9	PDX	3.9	GDY
1968 17	14:11:15.85	CSNL	—	—	37.109	115.952	—		—	8.00*	—	GDY	5	BRP	4.0	BRP	—		—		4.0	PDX	4.0	GDY
1968 18	12:45: 8.80		—	—	36.378	117.476	—	B	—	7.60	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1968 31	3:47:58.78		—	—	35.887	117.726	—	C	—	0.50	—	PAS	—		0.9	BRP	2.3	PAS	—		—		—	
1968 JUN 9	16:21:10.02		—	—	36.119	117.813	—	B	—	10.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1968 12	9:30:22.01		—	—	35.633	117.766	—	C	—	20.30	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1968 15	22:30: 5.00		—	—	36.700	116.200	—	A	—	33.00*	—	BRP	—		—		—		—		—		—	
1968 24	5:36:44.40		—	—	36.717	115.975	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	3.7	BRK	—		3.9	PDX	3.9	KKG
1968 26	7:34:13.83	SIZ	—	—	37.368	116.347	—		—	8.00*	—	GDY	—		—		3.0	BRK	—		—		3.0	GDY
1968 30	21:21:20.65	SIZ	—	—	37.191	116.549	—		—	8.00*	—	GDY	—		—		—		—		3.6	PDX	3.6	GDY
1968 JUL 13	8:11:20.73		—	—	36.003	117.347	—	B	—	1.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1968 AUG 9	2: 8:52.48		—	—	35.605	116.201	—	C	—	1.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1968 SEP 3	8:33:55.23	SIZ	—	—	37.175	116.472	—		—	8.00*	—	GDY	—		—		—		—		—		4.0	GDY
1968 24	17: 1: 2.89		—	—	36.035	117.897	—	B	—	1.00*	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	
1968 OCT 29	16:35:59.23		—	—	36.979	116.501	—		—	8.00*	—	GDY	—		—		—		—		—		3.5	GDY
1968 31	11:36:47.00		—	3	36.250	117.500	—		—	—	—	BRK	1	BRP	2.5	BRP	3.5	BRK	—		—		—	
1968 DEC 8	15:28: 1.40	SIZ	—	10	37.332	116.545	1.3	D	308	0.80*	—	HSF	—		—		—		2.5	HSF	—		—	
1968 9	1: 2:58.30	SIZ	—	7	37.262	116.465	0.5	B	223	3.60	0.40	HSF	—		—		—		0.8	HSF	—		—	
1968 11	13:10:56.80	SIZ	—	9	37.247	116.497	0.2	B	224	3.60	0.10	HSF	—		—		—		1.7	HSF	—		—	
1968 12	11: 5:53.40	SIZ	—	11	37.225	116.508	0.5	A	96	3.80	0.60	HSF	—		—		—		1.5	HSF	—		—	
1968 13	0:25:26.74		—	—	35.991	117.673	—	B	—	10.00*	—	PAS	—		0.9	BRP	2.3	PAS	—		—		—	
1968 14	6:53:31.70	SIZ	—	8	37.227	116.505	0.4	A	95	4.50	0.50	HSF	—		—		—		1.1	HSF	—		—	
1968 14	9:10:44.00	SIZ	—	4	37.218	116.505	—	D	133	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1968 16	18: 6:16.28		—	—	35.806	117.651	—	C	—	10.00*	—	PAS	—		0.8	BRP	2.2	PAS	—		—		—	

DATE (UTC)	ORIGIN TIME HR	MN	SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1968 DEC 16	18	7	22.52		—	—	35.795	117.656	—	C	—	10.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		—	
1968 17	0	7	44.12		—	—	36.027	117.882	—		—	8.00*	—	GDY	1	BRP	2.4	BRP	3.4	PAS	—		4.0	PDX	3.4	GDY
1968 17	22	46	56.90	SIZ	—	8	37.227	116.502	0.3	A	93	4.20	0.40	HSF	—		—		—		1.2	HSF	—		—	
1968 19	16	31	50.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		4.8	HSF	—		—	
1968 19	16	32	10.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1968 19	16	33	40.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.5	HSF	—		—	
1968 19	16	34	20.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.5	HSF	—		—	
1968 19	16	42	18.10	SIZ	—	11	37.250	116.493	0.3	B	158	2.10	0.30	HSF	—		—		—		2.9	HSF	—		—	
1968 19	16	47	16.90	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.5	HSF	—		—	
1968 19	17	0	28.00	SIZ	—	17	37.210	116.505	0.3	A	67	3.90	0.30	HSF	—		—		—		3.5	HSF	—		—	
1968 19	17	6	25.30	SIZ	—	21	37.235	116.493	0.2	B	50	3.70	0.30	HSF	—		—		—		3.0	HSF	—		—	
1968 19	17	7	55.60	SIZ	—	10	37.272	116.460	0.6	B	138	2.70	0.80	HSF	—		—		—		2.6	HSF	—		—	
1968 19	17	8	48.50	SIZ	—	12	37.275	116.460	0.3	B	148	2.50	0.50	HSF	—		—		—		2.7	HSF	—		—	
1968 19	17	9	56.00	SIZ	—	12	37.262	116.467	0.3	A	112	2.30	0.30	HSF	—		—		—		2.7	HSF	—		—	
1968 19	17	30	21.50	SIZ	—	18	37.208	116.503	0.4	B	50	2.60	0.70	HSF	—		—		—		3.5	HSF	4.3	PDX	—	
1968 19	18	14	39.30	SIZ	—	20	37.257	116.475	0.2	A	69	3.70	0.20	HSF	—		—		—		3.0	HSF	—		—	
1968 19	18	50	60.00	SIZ	—	21	37.272	116.458	0.2	A	96	3.10	0.20	HSF	—		—		—		2.8	HSF	—		—	
1968 19	18	52	30.80	SIZ	—	22	37.198	116.475	0.2	A	49	1.60	0.40	HSF	—		—		—		3.1	HSF	—		—	
1968 19	18	57	10.00	SIZ	—	14	37.200	116.497	0.2	A	67	3.20	0.30	HSF	—		—		—		2.9	HSF	—		—	
1968 19	19	18	17.70	SIZ	—	14	37.260	116.485	0.4	B	66	1.10	0.40	HSF	—		—		—		3.3	HSF	4.1	PDX	—	
1968 19	19	32	29.90	SIZ	—	18	37.203	116.502	0.2	A	53	3.90	0.30	HSF	—		—		—		3.2	HSF	3.9	PDX	—	
1968 19	19	45	36.10	SIZ	—	16	37.230	116.473	0.1	A	41	1.70	0.20	HSF	—		—		—		3.1	HSF	—		—	
1968 19	19	54	0.10	SIZ	—	18	37.222	116.502	0.2	A	53	4.40	0.20	HSF	—		—		—		3.2	HSF	4.3	PDX	—	
1968 19	20	3	3.20	SIZ	—	13	37.275	116.467	1.0	C	151	4.10	0.80	HSF	—		—		—		3.2	HSF	—		—	
1968 19	20	4	16.40	SIZ	—	11	37.205	116.490	0.3	A	64	3.30	0.50	HSF	—		—		—		2.6	HSF	—		—	
1968 19	20	5	0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1968 19	20	5	50.50	SIZ	—	14	37.233	116.463	0.2	A	105	1.70	0.20	HSF	—		—		—		3.0	HSF	—		—	
1968 19	20	22	29.20	SIZ	—	17	37.238	116.503	0.2	A	60	3.90	0.20	HSF	—		—		—		2.8	HSF	—		—	
1968 19	20	40	9.10	SIZ	—	12	37.283	116.463	0.4	A	113	2.10	0.40	HSF	—		—		—		3.1	HSF	—		—	
1968 19	21	14	34.30	SIZ	—	17	37.235	116.470	0.4	B	62	0.70	0.50	HSF	—		—		—		3.1	HSF	—		—	
1968 19	22	5	18.40	SIZ	—	18	37.202	116.498	0.2	A	52	3.50	0.30	HSF	—		—		—		3.3	HSF	—		—	
1968 19	22	13	0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1968 19	22	23	26.30	SIZ	—	15	37.217	116.467	—		—	4.00*	—	PDX	—		—		—		4.2	HSF	5.0	PDX	4.5	PDX
1968 19	22	28	52.70	SIZ	—	11	37.207	116.507	0.7	B	70	3.30	1.20	HSF	—		—		—		3.0	HSF	—		—	
1968 19	22	32	40.50	SIZ	—	8	37.230	116.462	0.3	C	156	2.00	2.10	HSF	—		—		—		1.5	HSF	—		—	
1968 19	22	40	4.90	SIZ	—	4	37.230	116.477	—	D	189	0.30*	—	HSF	—		—		—		1.1	HSF	—		—	
1968 19	22	42	53.90	SIZ	—	6	37.248	116.535	5.9	C	125	13.90	12.30	HSF	—		—		—		0.8	HSF	—		—	
1968 19	22	51	51.50	SIZ	—	10	37.232	116.487	0.2	A	101	2.20	1.10	HSF	—		—		—		2.3	HSF	—		—	
1968 19	22	55	51.80	SIZ	—	7	37.237	116.465	0.2	B	122	1.40	0.40	HSF	—		—		—		2.0	HSF	—		—	
1968 19	22	58	1.00	SIZ	—	12	37.215	116.508	0.4	A	62	4.30	0.50	HSF	—		—		—		2.9	HSF	—		—	
1968 19	23	5	12.10	SIZ	—	11	37.235	116.497	0.4	A	67	3.60	0.60	HSF	—		—		—		1.7	HSF	—		—	
1968 19	23	23	48.40	SIZ	—	10	37.202	116.468	0.2	B	67	1.80	0.50	HSF	—		—		—		2.3	HSF	—		—	
1968 19	23	25	35.20	SIZ	—	8	37.230	116.477	0.2	A	111	2.00	0.90	HSF	—		—		—		1.5	HSF	—		—	
1968 19	23	26	31.20	SIZ	—	6	37.230	116.475	0.1	B	153	1.30	0.20	HSF	—		—		—		0.9	HSF	—		—	
1968 19	23	51	22.60	SIZ	—	11	37.253	116.493	0.3	A	99	2.70	0.50	HSF	—		—		—		1.7	HSF	—		—	
1968 19	23	52	49.10	SIZ	—	10	37.225	116.468	0.2	A	61	1.90	0.30	HSF	—		—		—		2.2	HSF	—		—	
1968 20	0	14	32.20	SIZ	—	9	37.200	116.492	0.2	B	70	1.60	0.50	HSF	—		—		—		1.2	HSF	—		—	
1968 20	0	16	59.00	SIZ	—	10	37.237	116.472	0.4	A	59	2.70	1.20	HSF	—		—		—		1.3	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868–1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1968 DEC 20	0:19:33.20	SIZ	—	11	37.245	116.485	0.3	A	68	1.90	0.40	HSF	—		—		—		2.7	HSF	—		—	
1968 20	0:22:36.50	SIZ	—	12	37.222	116.500	0.5	A	59	3.70	0.70	HSF	—		—		—		2.9	HSF	—		—	
1968 20	0:30:41.70	SIZ	—	10	37.213	116.507	0.2	A	61	3.20	0.40	HSF	—		—		—		0.9	HSF	—		—	
1968 20	0:35:53.10	SIZ	—	10	37.247	116.472	0.4	A	63	2.40	0.50	HSF	—		—		—		1.2	HSF	—		—	
1968 20	0:39:17.40	SIZ	—	10	37.265	116.492	1.4	B	118	4.60	1.40	HSF	—		—		—		2.0	HSF	—		—	
1968 20	0:42:38.80	SIZ	—	9	37.205	116.507	0.3	A	103	3.40	0.40	HSF	—		—		—		1.7	HSF	—		—	
1968 20	1:15: 1.90	SIZ	—	17	37.250	116.495	0.3	B	44	3.90	0.30	HSF	—		—		—		2.9	HSF	3.8	PDX	—	
1968 20	1:28: 7.10	SIZ	—	20	37.227	116.500	0.2	A	47	4.40	0.30	HSF	—		—		—		2.9	HSF	3.9	PDX	—	
1968 20	1:28:21.00		—	5	37.900	116.000	—		—	4.00*	—	ISC	—		—		—		—		—		—	
1968 20	1:50:21.60	SIZ	—	23	37.207	116.507	0.3	B	49	3.40	0.40	HSF	—		—		—		3.1	HSF	—		—	
1968 20	2: 0:12.30	SIZ	—	11	37.208	116.507	0.3	A	101	3.40	0.40	HSF	—		—		—		2.6	HSF	—		—	
1968 20	2:30: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1968 20	3:36:43.80	SIZ	—	11	37.215	116.505	0.4	A	97	3.70	0.50	HSF	—		—		—		2.9	HSF	—		—	
1968 20	4:41:48.30	SIZ	—	10	37.283	116.455	0.4	B	160	2.40	0.70	HSF	—		—		—		2.4	HSF	—		—	
1968 20	5: 5:44.50	SIZ	—	14	37.217	116.510	0.2	A	61	3.50	0.30	HSF	—		—		—		2.3	HSF	—		—	
1968 20	5:10: 2.00	SIZ	—	21	37.205	116.510	0.2	A	55	3.70	0.20	HSF	—		—		—		2.7	HSF	—		—	
1968 20	5:36:49.20	SIZ	—	21	37.212	116.510	0.2	A	40	4.20	0.20	HSF	—		—		—		2.6	HSF	—		—	
1968 20	5:41:52.10	SIZ	—	23	37.235	116.487	0.2	A	41	4.00	0.20	HSF	—		—		—		3.0	HSF	—		—	
1968 20	5:52:10.40	SIZ	—	20	37.223	116.500	0.2	A	43	3.80	0.20	HSF	—		—		—		2.6	HSF	—		—	
1968 20	6: 3:54.80	SIZ	—	20	37.238	116.500	0.2	A	45	3.90	0.20	HSF	—		—		—		2.6	HSF	—		—	
1968 20	6:10: 7.10	SIZ	—	20	37.252	116.497	0.2	A	47	3.70	0.20	HSF	—		—		—		2.6	HSF	—		—	
1968 20	6:16:16.40	SIZ	—	20	37.207	116.510	0.2	A	54	4.00	0.20	HSF	—		—		—		2.5	HSF	—		—	
1968 20	6:24:57.20	SIZ	—	18	37.220	116.510	0.3	A	60	4.20	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 20	6:28:15.30	SIZ	—	20	37.265	116.468	0.3	A	107	2.80	0.40	HSF	—		—		—		2.2	HSF	—		—	
1968 20	6:38:55.80	SIZ	—	21	37.207	116.505	0.2	A	50	2.90	0.20	HSF	—		—		—		2.6	HSF	—		—	
1968 20	6:53:23.80	SIZ	—	21	37.248	116.488	0.2	A	49	3.30	0.20	HSF	—		—		—		2.8	HSF	—		—	
1968 20	7: 9:48.80	SIZ	—	20	37.217	116.507	0.2	A	40	3.60	0.20	HSF	—		—		—		2.3	HSF	—		—	
1968 20	7:10:43.70	SIZ	—	14	37.273	116.485	0.3	B	136	2.10	0.20	HSF	—		—		—		2.2	HSF	—		—	
1968 20	7:12: 9.50	SIZ	—	19	37.217	116.508	0.2	A	39	3.60	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 20	7:15:27.40	SIZ	—	21	37.288	116.463	0.3	B	141	2.30	0.40	HSF	—		—		—		2.0	HSF	—		—	
1968 20	7:18:32.70	SIZ	—	21	37.212	116.507	0.2	A	40	4.00	0.20	HSF	—		—		—		2.6	HSF	—		—	
1968 20	7:37:47.10	SIZ	—	20	37.227	116.508	0.2	A	54	4.20	0.20	HSF	—		—		—		2.0	HSF	—		—	
1968 20	7:38: 1.10	SIZ	—	14	37.227	116.510	0.2	A	63	4.40	0.20	HSF	—		—		—		2.6	HSF	—		—	
1968 20	7:42: 3.90	SIZ	—	18	37.262	116.470	0.3	A	106	3.30	0.40	HSF	—		—		—		2.1	HSF	—		—	
1968 20	7:45:25.50	SIZ	—	21	37.227	116.510	0.2	A	54	4.50	0.20	HSF	—		—		—		2.6	HSF	—		—	
1968 20	7:49:34.40	SIZ	—	19	37.217	116.498	0.1	A	40	2.40	0.30	HSF	—		—		—		2.1	HSF	—		—	
1968 20	7:54: 1.90	SIZ	—	19	37.210	116.507	0.2	A	41	3.90	0.30	HSF	—		—		—		2.3	HSF	—		—	
1968 20	7:54:59.80	SIZ	—	19	37.223	116.463	0.2	B	56	1.80	0.30	HSF	—		—		—		2.3	HSF	—		—	
1968 20	8: 5:50.10	SIZ	—	18	37.207	116.508	0.3	B	52	3.80	0.50	HSF	—		—		—		2.0	HSF	—		—	
1968 20	8:13:18.10	SIZ	—	21	37.228	116.510	0.2	A	55	4.40	0.20	HSF	—		—		—		2.2	HSF	—		—	
1968 20	8:26:59.60	SIZ	—	21	37.267	116.470	0.2	A	107	3.70	0.20	HSF	—		—		—		2.8	HSF	—		—	
1968 20	8:29: 9.10	SIZ	—	18	37.245	116.492	0.2	A	52	3.20	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 20	8:41:52.50	SIZ	—	20	37.268	116.468	0.2	B	109	3.00	0.30	HSF	—		—		—		2.3	HSF	—		—	
1968 20	8:42: 0.70	SIZ	—	16	37.228	116.510	0.3	B	57	4.50	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 20	8:52:35.90	SIZ	—	21	37.268	116.487	0.2	A	78	2.60	0.30	HSF	—		—		—		2.8	HSF	—		—	
1968 20	9:26:25.90	SIZ	—	18	37.235	116.502	0.3	A	49	3.20	0.40	HSF	—		—		—		1.9	HSF	—		—	
1968 20	9:31:43.50	SIZ	—	20	37.223	116.510	0.2	A	55	3.60	0.30	HSF	—		—		—		2.5	HSF	—		—	
1968 20	9:39: 7.50	SIZ	—	19	37.220	116.503	0.2	A	41	3.90	0.20	HSF	—		—		—		2.6	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR	MN	SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1968 DEC 20		9	57:19.30	SIZ	—	20	37.215	116.508	0.2	A	39	3.90	0.20	HSF	—		—		—		2.8	HSF	3.7	PDX	—	
1968 20		9	58:23.00	SIZ	—	12	37.213	116.510	0.3	B	64	3.40	0.40	HSF	—		—		—		2.6	HSF	—		—	
1968 20		9	59:27.80	SIZ	—	11	37.217	116.508	0.2	A	61	3.90	0.20	HSF	—		—		—		1.9	HSF	—		—	
1968 20		10	3:36.00	SIZ	—	18	37.210	116.510	0.2	A	55	4.10	0.20	HSF	4	BRP	3.0	BRP	—		2.9	HSF	3.9	PDX	3.9	GDY
1968 20		10	13:13.80	SIZ	—	19	37.200	116.508	0.2	A	55	3.50	0.20	HSF	—		—		—		2.3	HSF	—		—	
1968 20		10	22:29.50	SIZ	—	19	37.215	116.508	0.2	A	40	4.20	0.20	HSF	—		—		—		2.2	HSF	—		—	
1968 20		10	54:46.60	SIZ	—	18	37.235	116.503	0.2	A	50	3.50	0.20	HSF	—		—		—		2.2	HSF	—		—	
1968 20		11	7:44.60	SIZ	—	22	37.227	116.510	0.2	A	54	4.70	0.20	HSF	—		—		—		2.2	HSF	—		—	
1968 20		11	11: 7.10	SIZ	—	14	37.202	116.485	0.2	A	71	2.20	0.30	HSF	—		—		—		1.6	HSF	—		—	
1968 20		11	16:54.80	SIZ	—	21	37.258	116.495	0.2	A	56	3.60	0.20	HSF	—		—		—		2.4	HSF	—		—	
1968 20		11	20:11.60	SIZ	—	20	37.198	116.510	0.2	A	56	3.30	0.20	HSF	—		—		—		2.5	HSF	—		—	
1968 20		11	24:47.00	SIZ	—	21	37.217	116.508	0.2	A	39	3.60	0.20	HSF	—		—		—		2.7	HSF	—		—	
1968 20		11	25:53.10	SIZ	—	19	37.217	116.503	0.2	A	44	3.60	0.30	HSF	—		—		—		2.4	HSF	—		—	
1968 20		11	31: 3.60	SIZ	—	11	37.225	116.512	0.4	A	85	4.60	0.40	HSF	—		—		—		2.3	HSF	—		—	
1968 20		11	32:34.10	SIZ	—	19	37.273	116.485	0.3	B	110	2.50	0.30	HSF	—		—		—		2.8	HSF	—		—	
1968 20		11	55:50.20	SIZ	—	18	37.305	116.453	0.4	B	123	0.50	0.40	HSF	—		—		—		2.6	HSF	—		—	
1968 20		11	57: 0.60	SIZ	—	15	37.227	116.510	0.1	A	63	4.30	0.10	HSF	—		—		—		2.5	HSF	—		—	
1968 20		11	59:28.00	SIZ	—	16	37.203	116.490	0.1	A	51	3.00	0.10	HSF	—		—		—		2.3	HSF	—		—	
1968 20		11	59:42.10	SIZ	—	15	37.210	116.510	0.2	A	57	4.10	0.20	HSF	—		—		—		2.0	HSF	—		—	
1968 20		12	0:59.50	SIZ	—	19	37.210	116.507	0.3	A	41	3.90	0.40	HSF	—		—		—		2.2	HSF	—		—	
1968 20		12	1:24.30	SIZ	—	9	37.220	116.508	0.3	A	107	4.00	0.30	HSF	—		—		—		2.1	HSF	—		—	
1968 20		12	8:39.80	SIZ	—	16	37.210	116.510	0.1	A	42	3.00	0.20	HSF	—		—		—		2.1	HSF	—		—	
1968 20		12	10:22.20	SIZ	—	19	37.210	116.507	0.2	A	41	3.80	0.20	HSF	—		—		—		2.3	HSF	—		—	
1968 20		12	10:36.80	SIZ	—	14	37.210	116.510	0.2	A	57	3.80	0.20	HSF	—		—		—		2.5	HSF	—		—	
1968 20		12	14:43.40	SIZ	—	22	37.213	116.510	0.2	A	40	4.30	0.20	HSF	—		—		—		2.8	HSF	—		—	
1968 20		12	27:27.10	SIZ	—	21	37.218	116.508	0.1	A	41	4.30	0.20	HSF	—		—		—		2.0	HSF	—		—	
1968 20		12	34:55.90	SIZ	—	20	37.245	116.498	0.2	A	42	3.90	0.20	HSF	—		—		—		2.3	HSF	—		—	
1968 20		12	40:17.70	SIZ	—	20	37.195	116.510	0.2	A	56	3.60	0.20	HSF	—		—		—		2.7	HSF	—		—	
1968 20		12	44:55.80	SIZ	—	21	37.250	116.478	0.1	A	48	3.80	0.10	HSF	—		—		—		2.3	HSF	—		—	
1968 20		12	48:54.30	SIZ	—	17	37.222	116.510	0.2	B	50	4.30	0.30	HSF	—		—		—		2.5	HSF	—		—	
1968 20		12	56:18.10	SIZ	—	19	37.218	116.508	0.1	A	54	3.40	0.20	HSF	—		—		—		2.1	HSF	—		—	
1968 20		13	7:24.20	SIZ	—	19	37.210	116.510	0.2	A	42	4.30	0.30	HSF	—		—		—		2.6	HSF	—		—	
1968 20		13	14:19.50	SIZ	—	18	37.212	116.475	0.1	A	44	2.40	0.30	HSF	—		—		—		2.1	HSF	—		—	
1968 20		13	26:39.00	SIZ	—	17	37.220	116.507	0.2	A	52	4.10	0.20	HSF	—		—		—		1.9	HSF	—		—	
1968 20		13	39:34.00	SIZ	—	21	37.220	116.508	0.2	A	46	4.10	0.20	HSF	—		—		—		2.4	HSF	—		—	
1968 20		13	46:40.10	SIZ	—	22	37.227	116.508	0.2	A	54	4.60	0.20	HSF	—		—		—		2.3	HSF	—		—	
1968 20		13	50:32.80	SIZ	—	20	37.253	116.502	0.2	A	61	4.00	0.20	HSF	—		—		—		2.0	HSF	—		—	
1968 20		14	22:58.80	SIZ	—	19	37.208	116.507	0.2	A	44	4.30	0.20	HSF	—		—		—		2.4	HSF	—		—	
1968 20		14	23:38.50	SIZ	—	13	37.222	116.510	0.1	A	60	4.20	0.10	HSF	—		—		—		2.2	HSF	—		—	
1968 20		15	4:48.70	SIZ	—	22	37.215	116.507	0.2	A	40	4.50	0.20	HSF	—		—		—		2.4	HSF	—		—	
1968 20		15	24:34.50	SIZ	—	19	37.203	116.472	0.1	A	44	2.30	0.20	HSF	—		—		—		2.5	HSF	—		—	
1968 20		15	28: 7.10	SIZ	—	18	37.220	116.487	0.1	A	50	3.80	0.10	HSF	—		—		—		2.2	HSF	—		—	
1968 20		15	46:42.80	SIZ	—	21	37.278	116.463	0.3	A	112	3.40	0.30	HSF	—		—		—		2.3	HSF	—		—	
1968 20		15	53:10.10	SIZ	—	15	37.203	116.467	0.1	A	68	2.00	0.10	HSF	—		—		—		2.0	HSF	—		—	
1968 20		16	13:58.50	SIZ	—	17	37.220	116.508	0.2	A	56	4.20	0.20	HSF	—		—		—		1.9	HSF	—		—	
1968 20		16	19:18.40	SIZ	—	17	37.205	116.488	0.1	A	46	3.10	0.20	HSF	—		—		—		3.1	HSF	3.9	PDX	—	
1968 20		16	31:23.50	SIZ	—	19	37.222	116.510	0.2	A	52	4.40	0.20	HSF	—		—		—		2.1	HSF	—		—	
1968 20		16	40:27.00	SIZ	—	20	37.222	116.510	0.2	A	51	4.50	0.20	HSF	—		—		—		2.5	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1968 DEC 20	16:47:30.90	SIZ	—	20	37.255	116.458	0.1	A	86	1.90	0.10	HSF	—		—		—		2.9	HSF	—		—	
1968 20	16:57:53.00	SIZ	—	20	37.248	116.488	0.2	A	49	3.80	0.20	HSF	—		—		—		2.4	HSF	—		—	
1968 20	17: 8:27.30	SIZ	—	16	37.198	116.513	0.3	B	83	3.70	0.40	HSF	—		—		—		2.2	HSF	—		—	
1968 20	17:14:43.90	SIZ	—	21	37.222	116.512	0.2	A	55	4.50	0.20	HSF	—		—		—		2.9	HSF	3.8	PDX	—	
1968 20	17:15: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.2	HSF	—		—	
1968 20	17:23:55.00	SIZ	—	20	37.215	116.508	0.2	A	40	4.20	0.20	HSF	—		—		—		2.4	HSF	—		—	
1968 20	17:27:58.60	SIZ	—	21	37.257	116.473	0.2	A	68	3.90	0.20	HSF	—		—		—		2.8	HSF	3.7	PDX	—	
1968 20	17:33: 7.30	SIZ	—	22	37.215	116.508	0.2	A	40	4.50	0.20	HSF	—		—		—		2.9	HSF	3.8	PDX	—	
1968 20	17:40: 8.50	SIZ	—	18	37.210	116.507	0.2	A	41	3.70	0.20	HSF	—		—		—		1.8	HSF	—		—	
1968 20	17:47:17.20	SIZ	—	20	37.217	116.508	0.2	A	40	4.40	0.20	HSF	—		—		—		2.0	HSF	—		—	
1968 20	17:49:37.30	SIZ	—	19	37.215	116.512	0.4	B	41	4.10	0.40	HSF	—		—		—		2.0	HSF	—		—	
1968 20	18:16:52.60	SIZ	—	21	37.248	116.493	0.2	A	46	3.70	0.30	HSF	—		—		—		3.0	HSF	3.7	PDX	—	
1968 20	18:20:30.90	SIZ	—	16	37.205	116.488	0.1	A	47	3.20	0.20	HSF	—		—		—		2.1	HSF	—		—	
1968 20	18:27: 0.60	SIZ	—	15	37.230	116.508	0.2	A	55	4.50	0.20	HSF	—		—		—		2.5	HSF	—		—	
1968 20	18:27:28.20	SIZ	—	18	37.232	116.493	0.2	A	46	4.10	0.20	HSF	—		—		—		2.1	HSF	—		—	
1968 20	18:33:20.20	SIZ	—	20	37.202	116.478	0.1	A	49	2.40	0.20	HSF	—		—		—		2.6	HSF	—		—	
1968 20	18:35:36.30	SIZ	—	18	37.222	116.510	0.2	A	51	4.70	0.20	HSF	—		—		—		2.3	HSF	—		—	
1968 20	18:42:20.80	SIZ	—	17	37.242	116.498	0.2	A	43	4.00	0.20	HSF	—		—		—		1.6	HSF	—		—	
1968 20	18:46:28.40	SIZ	—	19	37.203	116.505	0.1	A	61	3.80	0.20	HSF	—		—		—		2.9	HSF	—		—	
1968 20	18:49:52.90	SIZ	—	18	37.223	116.510	0.2	A	63	4.40	0.20	HSF	—		—		—		2.4	HSF	—		—	
1968 20	18:53:54.40	SIZ	—	18	37.223	116.507	0.2	A	58	4.30	0.20	HSF	—		—		—		2.3	HSF	—		—	
1968 20	18:54:59.10	SIZ	—	18	37.223	116.505	0.3	B	56	4.40	0.30	HSF	—		—		—		2.3	HSF	—		—	
1968 20	19:46:46.30	SIZ	—	10	37.202	116.485	0.4	A	104	2.70	1.10	HSF	—		—		—		2.0	HSF	—		—	
1968 20	20: 8:19.20	SIZ	—	21	37.217	116.512	0.2	A	56	4.10	0.20	HSF	—		—		—		3.4	HSF	4.2	PDX	4.3	PDX
1968 20	20:56:39.40	SIZ	—	23	37.197	116.513	0.2	A	56	3.70	0.30	HSF	—		—		—		3.1	HSF	—		—	
1968 20	21: 7:49.50	SIZ	—	11	37.243	116.498	0.4	A	75	3.00	0.70	HSF	—		—		—		2.7	HSF	—		—	
1968 20	21:15: 5.80	SIZ	—	11	37.190	116.513	0.3	A	109	2.60	0.50	HSF	—		—		—		2.8	HSF	—		—	
1968 20	21:56:27.30	SIZ	—	10	37.225	116.512	0.4	A	66	4.40	0.40	HSF	—		—		—		1.7	HSF	—		—	
1968 20	22: 0:40.30	SIZ	—	11	37.217	116.507	0.2	A	61	3.00	0.40	HSF	—		—		—		2.1	HSF	—		—	
1968 20	22: 4:13.40	SIZ	—	9	37.215	116.513	0.5	A	67	4.50	0.60	HSF	—		—		—		1.4	HSF	—		—	
1968 20	22:15:49.30	SIZ	—	11	37.193	116.512	0.1	A	84	3.00	0.30	HSF	—		—		—		2.3	HSF	—		—	
1968 20	22:26: 5.60	SIZ	—	12	37.223	116.512	0.3	A	64	4.40	0.40	HSF	—		—		—		2.1	HSF	—		—	
1968 20	22:27:35.50	SIZ	—	12	37.215	116.505	0.3	A	62	3.60	0.40	HSF	—		—		—		2.2	HSF	—		—	
1968 20	22:35:13.90	SIZ	—	12	37.223	116.500	0.3	A	59	3.80	0.40	HSF	—		—		—		2.8	HSF	—		—	
1968 20	22:42:52.90	SIZ	—	10	37.210	116.507	0.3	A	91	3.10	0.50	HSF	—		—		—		1.9	HSF	—		—	
1968 20	22:45:47.90	SIZ	—	9	37.227	116.508	0.4	A	67	4.60	0.50	HSF	—		—		—		0.9	HSF	—		—	
1968 20	23: 8: 7.10	SIZ	—	11	37.215	116.507	0.3	A	62	3.90	0.50	HSF	—		—		—		2.0	HSF	—		—	
1968 20	23:12: 3.90	SIZ	—	10	37.223	116.490	1.0	B	57	2.50	2.30	HSF	—		—		—		1.7	HSF	—		—	
1968 20	23:18: 2.10	SIZ	—	12	37.222	116.513	0.5	A	67	4.50	0.60	HSF	—		—		—		2.6	HSF	—		—	
1968 20	23:25:41.60	SIZ	—	10	37.197	116.513	0.2	A	84	2.60	0.30	HSF	—		—		—		2.4	HSF	—		—	
1968 20	23:34: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1968 20	23:59:15.80	SIZ	—	25	37.218	116.475	0.1	A	54	3.10	0.20	HSF	—		—		—		3.1	HSF	3.9	PDX	—	
1968 21	0:14:25.10	SIZ	—	23	37.263	116.488	0.3	B	49	3.50	0.30	HSF	—		—		—		4.3	HSF	4.9	PDX	4.7	PDX
1968 21	1: 0:45.00	SIZ	—	11	37.220	116.518	0.5	A	80	4.50	0.60	HSF	—		—		—		2.8	HSF	—		—	
1968 21	2:33:21.20	SIZ	—	22	37.263	116.497	0.2	A	76	3.80	0.20	HSF	—		—		—		2.9	HSF	—		—	
1968 21	3:19:24.40	SIZ	—	11	37.262	116.497	0.4	A	105	3.70	0.40	HSF	—		—		—		2.4	HSF	—		—	
1968 21	3:38:41.60	SIZ	—	22	37.252	116.498	0.2	A	49	4.10	0.20	HSF	—		—		—		3.0	HSF	3.6	PDX	—	
1968 21	5:25:12.40	SIZ	—	11	37.238	116.497	0.3	A	82	3.30	0.60	HSF	—		—		—		2.5	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1968 DEC 21	5:56: 0.60	SIZ	—	11	37.208	116.512	0.3	A	100	4.60	0.30	HSF	—		—		—		2.8	HSF	—		—	
1968 21	7:20:43.60	SIZ	—	11	37.247	116.495	0.3	A	84	3.40	0.50	HSF	—		—		—		2.9	HSF	—		—	
1968 21	7:23:57.10	SIZ	—	11	37.215	116.508	0.3	A	97	3.10	0.40	HSF	—		—		—		2.8	HSF	—		—	
1968 21	7:43:42.50	SIZ	—	22	37.257	116.498	0.2	A	61	4.00	0.20	HSF	—		—		—		3.1	HSF	—		—	
1968 21	8:38:56.90	SIZ	—	11	37.245	116.490	0.3	A	77	2.30	0.50	HSF	—		—		—		2.0	HSF	—		—	
1968 21	9:15:52.60	SIZ	—	10	37.263	116.497	0.4	A	107	3.90	0.50	HSF	—		—		—		2.6	HSF	—		—	
1968 21	9:53:59.70	SIZ	—	9	37.270	116.465	0.3	B	131	2.60	0.30	HSF	—		—		—		1.1	HSF	—		—	
1968 21	11:48: 0.20	SIZ	—	11	37.218	116.503	0.3	A	96	3.50	0.40	HSF	—		—		—		2.8	HSF	—		—	
1968 21	11:58:42.60	SIZ	—	11	37.218	116.510	0.3	A	96	4.70	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 21	12: 3:45.70	SIZ	—	11	37.188	116.512	0.3	A	111	3.50	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 21	12:16:38.00	SIZ	—	22	37.202	116.492	0.2	A	52	3.40	0.20	HSF	—		—		—		2.9	HSF	—		—	
1968 21	13: 3:13.30	SIZ	—	21	37.200	116.510	0.2	A	55	4.70	0.20	HSF	—		—		—		2.9	HSF	—		—	
1968 21	13:36:15.90	SIZ	—	21	37.218	116.507	0.3	B	43	4.80	0.30	HSF	—		—		—		2.9	HSF	—		—	
1968 21	14:35:37.70	SIZ	—	20	37.230	116.497	0.2	A	49	4.50	0.20	HSF	—		—		—		2.9	HSF	—		—	
1968 21	15: 0:16.90	SIZ	—	19	37.203	116.503	0.2	A	54	3.80	0.20	HSF	—		—		—		3.1	HSF	—		—	
1968 21	15: 4:58.60	SIZ	—	18	37.265	116.490	0.3	A	59	2.50	0.30	HSF	—		—		—		3.4	HSF	4.0	PDX	4.0	GDY
1968 21	15:17:48.10	SIZ	—	11	37.212	116.507	0.3	A	99	3.90	0.40	HSF	—		—		—		2.7	HSF	—		—	
1968 21	15:45:18.40	SIZ	—	20	37.223	116.512	0.2	A	55	4.70	0.20	HSF	—		—		—		3.1	HSF	3.9	PDX	3.9	GDY
1968 21	16: 8:11.10	SIZ	—	9	37.255	116.497	0.4	A	109	2.70	0.80	HSF	—		—		—		2.9	HSF	—		—	
1968 21	16:53: 9.00	SIZ	—	11	37.215	116.512	0.4	A	98	4.70	0.40	HSF	—		—		—		2.9	HSF	—		—	
1968 21	17:18: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1968 21	17:32:56.40	SIZ	—	21	37.252	116.477	0.2	A	52	4.20	0.20	HSF	—		—		—		3.4	HSF	—		—	
1968 21	17:43:12.70	SIZ	—	21	37.197	116.513	0.2	A	56	4.60	0.20	HSF	—		—		—		3.1	HSF	3.4	PDX	—	
1968 21	17:59:43.30	SIZ	—	21	37.197	116.513	0.2	A	56	4.40	0.20	HSF	—		—		—		2.9	HSF	—		—	
1968 21	18:28:39.40	SIZ	—	12	37.192	116.510	0.5	B	84	2.90	0.90	HSF	—		—		—		2.5	HSF	—		—	
1968 21	18:52:51.00	SIZ	—	12	37.213	116.508	0.3	A	63	3.40	0.40	HSF	—		—		—		2.2	HSF	—		—	
1968 21	19: 7:33.90	SIZ	—	21	37.242	116.500	0.2	A	50	4.10	0.20	HSF	—		—		—		3.2	HSF	4.1	PDX	4.1	GDY
1968 21	20:59:14.30	SIZ	—	12	37.227	116.512	0.3	A	67	4.80	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 21	21:40:31.80	SIZ	—	23	37.188	116.513	0.2	A	88	3.30	0.30	HSF	—		—		—		3.0	HSF	—		—	
1968 21	22:10:14.30	SIZ	—	12	37.233	116.497	0.4	A	66	3.60	0.60	HSF	—		—		—		1.6	HSF	—		—	
1968 21	22:25:58.80	SIZ	—	12	37.205	116.482	1.2	B	61	6.50	4.50	HSF	—		—		—		2.9	HSF	—		—	
1968 21	22:35:17.10	SIZ	—	12	37.258	116.495	0.3	A	101	3.20	0.50	HSF	—		—		—		2.2	HSF	—		—	
1968 21	22:37:20.60	SIZ	—	12	37.190	116.513	0.2	A	87	2.30	0.50	HSF	—		—		—		2.3	HSF	—		—	
1968 21	23: 9:14.60	SIZ	—	11	37.245	116.497	0.4	A	80	3.30	0.60	HSF	—		—		—		2.2	HSF	—		—	
1968 22	0:10:32.20	SIZ	—	11	37.220	116.513	0.3	A	95	5.30	0.80	HSF	—		—		—		2.8	HSF	—		—	
1968 22	1:49:23.00	SIZ	—	9	37.223	116.467	0.2	A	97	1.70	0.30	HSF	—		—		—		2.2	HSF	—		—	
1968 22	2:57:38.00	SIZ	—	11	37.247	116.488	0.3	A	78	2.70	0.60	HSF	—		—		—		2.4	HSF	—		—	
1968 22	3:51:53.50	SIZ	—	10	37.230	116.500	0.3	A	118	3.40	0.50	HSF	—		—		—		2.8	HSF	3.1	PDX	—	
1968 22	4: 3:45.40	SIZ	—	11	37.197	116.510	0.3	A	106	3.80	0.50	HSF	—		—		—		2.8	HSF	—		—	
1968 22	4:37:31.70	SIZ	—	11	37.242	116.507	0.4	A	81	4.50	0.40	HSF	—		—		—		2.6	HSF	—		—	
1968 22	5:19:30.10	SIZ	—	11	37.253	116.497	0.4	A	91	3.00	0.60	HSF	—		—		—		2.5	HSF	—		—	
1968 22	6:34:23.30	SIZ	—	11	37.222	116.507	0.4	A	95	3.60	0.60	HSF	—		—		—		2.7	HSF	—		—	
1968 22	6:38:40.90	SIZ	—	11	37.268	116.483	0.3	B	125	1.90	0.30	HSF	—		—		—		2.9	HSF	—		—	
1968 22	7:23:24.40	SIZ	—	11	37.250	116.498	0.4	A	86	3.30	0.60	HSF	—		—		—		2.9	HSF	—		—	
1968 22	7:31:30.90	SIZ	—	11	37.268	116.485	0.3	B	127	1.70	0.30	HSF	—		—		—		2.1	HSF	—		—	
1968 22	7:32:45.90	SIZ	—	11	37.267	116.483	0.3	B	124	1.90	0.30	HSF	—		—		—		2.1	HSF	—		—	
1968 22	7:41:54.50	SIZ	—	11	37.183	116.512	0.3	A	113	2.70	0.70	HSF	—		—		—		2.8	HSF	—		—	
1968 22	7:43: 6.20	SIZ	—	11	37.258	116.475	0.3	A	102	3.90	0.40	HSF	—		—		—		2.9	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1968 DEC 22	8:12:20.40	SIZ	—	11	37.240	116.458	0.2	A	79	3.00	0.40	HSF	—		—		—		2.7	HSF	—		—	
1968 22	8:28:32.40	SIZ	—	11	37.248	116.497	0.4	A	84	2.90	0.60	HSF	—		—		—		2.9	HSF	—		—	
1968 22	8:53:26.20	SIZ	—	11	37.213	116.518	1.4	C	98	4.70	1.50	HSF	—		—		—		2.6	HSF	—		—	
1968 22	9:34: 1.60	SIZ	—	11	37.198	116.513	0.4	A	105	4.90	0.40	HSF	—		—		—		2.6	HSF	—		—	
1968 22	9:57:58.40	SIZ	—	10	37.267	116.487	0.3	B	122	1.80	0.30	HSF	—		—		—		2.3	HSF	—		—	
1968 22	9:58:59.40	SIZ	—	21	37.237	116.503	0.2	A	48	4.00	0.20	HSF	—		—		—		2.4	HSF	—		—	
1968 22	9:59:54.60	SIZ	—	17	37.272	116.488	0.3	B	130	2.50	0.30	HSF	—		—		—		3.3	HSF	4.2	PDX	4.2	GDY
1968 22	10:11:23.00	SIZ	—	21	37.218	116.512	0.2	A	60	4.70	0.20	HSF	—		—		—		2.7	HSF	—		—	
1968 22	10:13:27.10	SIZ	—	21	37.195	116.513	0.2	A	86	4.60	0.20	HSF	—		—		—		2.9	HSF	—		—	
1968 22	10:21:13.90	SIZ	—	21	37.222	116.513	0.2	A	66	4.70	0.20	HSF	—		—		—		2.2	HSF	—		—	
1968 22	10:21:41.90	SIZ	—	16	37.200	116.510	0.2	A	75	4.60	0.20	HSF	—		—		—		2.3	HSF	—		—	
1968 22	10:31:20.80	SIZ	—	21	37.232	116.508	0.2	A	54	4.30	0.20	HSF	—		—		—		2.6	HSF	—		—	
1968 22	10:32:49.30	SIZ	—	21	37.185	116.512	0.2	A	88	3.40	0.30	HSF	—		—		—		2.3	HSF	—		—	
1968 22	10:34:53.70	SIZ	—	21	37.240	116.510	0.3	A	50	4.10	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 22	10:37:34.80	SIZ	—	21	37.195	116.512	0.2	A	85	4.90	0.20	HSF	—		—		—		2.1	HSF	—		—	
1968 22	10:49:10.40	SIZ	—	19	37.192	116.512	0.2	A	85	4.60	0.20	HSF	—		—		—		2.1	HSF	—		—	
1968 22	11: 6:41.70	SIZ	—	20	37.242	116.503	0.2	A	51	3.80	0.30	HSF	—		—		—		2.9	HSF	—		—	
1968 22	11: 8:15.10	SIZ	—	20	37.193	116.512	0.3	A	85	4.50	0.30	HSF	—		—		—		2.3	HSF	—		—	
1968 22	11:22:37.40		—	19	37.152	116.600	0.4	B	118	0.60	2.20	HSF	—		—		—		1.2	HSF	—		—	
1968 22	11:22:44.60	SIZ	—	16	37.192	116.508	0.3	A	82	4.40	0.40	HSF	—		—		—		2.2	HSF	—		—	
1968 22	11:26:15.60	SIZ	—	18	37.222	116.512	0.3	A	65	4.80	0.20	HSF	—		—		—		2.7	HSF	—		—	
1968 22	11:34:54.80	SIZ	—	21	37.222	116.512	0.2	A	66	4.50	0.20	HSF	—		—		—		2.2	HSF	—		—	
1968 22	11:40:25.00	SIZ	—	20	37.227	116.513	0.2	A	60	4.60	0.20	HSF	—		—		—		2.0	HSF	—		—	
1968 22	11:48:20.30	SIZ	—	21	37.233	116.468	0.1	A	40	1.70	0.20	HSF	—		—		—		2.2	HSF	—		—	
1968 22	11:55:58.80	SIZ	—	21	37.257	116.493	0.2	A	61	3.40	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 22	12: 1:27.80	SIZ	—	19	37.257	116.497	0.3	A	62	3.80	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 22	12:10:11.10	SIZ	—	21	37.233	116.467	0.2	A	40	1.70	0.20	HSF	—		—		—		2.1	HSF	—		—	
1968 22	12:15: 0.00	SIZ	—	21	37.202	116.510	0.2	A	70	3.80	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 22	12:15:36.40	SIZ	—	21	37.242	116.510	0.3	B	54	4.20	0.30	HSF	—		—		—		2.3	HSF	—		—	
1968 22	12:18:17.70	SIZ	—	21	37.220	116.513	0.2	A	66	4.10	0.20	HSF	—		—		—		1.9	HSF	—		—	
1968 22	12:19: 5.10	SIZ	—	21	37.227	116.510	0.2	A	59	4.00	0.20	HSF	—		—		—		2.5	HSF	—		—	
1968 22	12:22:48.70	SIZ	—	19	37.177	116.475	0.3	A	69	3.50	0.50	HSF	—		—		—		2.3	HSF	—		—	
1968 22	12:30:42.10	SIZ	—	19	37.250	116.512	0.4	B	63	4.80	0.30	HSF	—		—		—		2.5	HSF	—		—	
1968 22	12:31:38.30	SIZ	—	21	37.232	116.498	0.2	A	50	3.50	0.20	HSF	—		—		—		2.6	HSF	—		—	
1968 22	13: 7:26.30	SIZ	—	19	37.225	116.503	0.3	A	55	4.20	0.30	HSF	—		—		—		1.7	HSF	—		—	
1968 22	13:13:36.40	SIZ	—	21	37.227	116.510	0.2	A	60	4.20	0.20	HSF	—		—		—		2.9	HSF	—		—	
1968 22	13:16:33.20	SIZ	—	21	37.227	116.510	0.2	A	60	4.20	0.20	HSF	—		—		—		2.7	HSF	—		—	
1968 22	13:34:33.20	SIZ	—	21	37.230	116.510	0.2	A	57	4.30	0.20	HSF	—		—		—		2.9	HSF	—		—	
1968 22	13:46: 9.40	SIZ	—	21	37.227	116.505	0.2	B	58	4.60	0.20	HSF	—		—		—		2.7	HSF	—		—	
1968 22	14: 3:17.50	SIZ	—	18	37.202	116.513	0.2	A	79	4.60	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 22	14:25: 8.80	SIZ	—	20	37.273	116.482	0.3	B	131	1.90	0.20	HSF	—		—		—		2.3	HSF	—		—	
1968 22	14:42:25.00	SIZ	—	21	37.245	116.515	0.3	B	57	4.20	0.30	HSF	—		—		—		2.2	HSF	—		—	
1968 22	14:46:58.50	SIZ	—	19	37.227	116.510	0.2	A	63	4.40	0.20	HSF	—		—		—		2.3	HSF	—		—	
1968 22	14:49:11.10	SIZ	—	20	37.247	116.507	0.3	B	58	4.10	0.30	HSF	—		—		—		2.3	HSF	—		—	
1968 22	14:51:26.50	SIZ	—	21	37.205	116.485	0.2	A	45	3.20	0.40	HSF	—		—		—		2.2	HSF	—		—	
1968 22	15: 3:27.60	SIZ	—	21	37.187	116.502	0.2	A	80	2.60	0.50	HSF	—		—		—		2.9	HSF	—		—	
1968 22	15: 6:49.80	SIZ	—	20	37.225	116.512	0.3	A	63	4.30	0.30	HSF	—		—		—		2.1	HSF	—		—	
1968 22	15:11:48.10	SIZ	—	21	37.210	116.510	0.2	A	42	4.40	0.20	HSF	—		—		—		1.9	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1968 DEC 22	15:15:27.30	SIZ	—	21	37.235	116.508	0.2	A	50	4.20	0.20	HSF	—		—		—		2.0	HSF	—		—	
1968 22	15:24:32.80	SIZ	—	21	37.242	116.510	0.3	B	53	4.10	0.30	HSF	—		—		—		1.2	HSF	—		—	
1968 22	15:24:47.10	SIZ	—	19	37.242	116.508	0.3	B	52	4.10	0.30	HSF	—		—		—		2.7	HSF	—		—	
1968 22	15:29:16.70	SIZ	—	21	37.242	116.508	0.2	A	52	4.20	0.20	HSF	—		—		—		2.2	HSF	—		—	
1968 22	15:30: 5.40	SIZ	—	21	37.242	116.508	0.3	B	52	4.00	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 22	15:35:34.40	SIZ	—	21	37.265	116.500	0.3	A	91	4.00	0.30	HSF	—		—		—		1.7	HSF	—		—	
1968 22	15:38:36.60	SIZ	—	16	37.243	116.505	0.3	A	66	4.20	0.30	HSF	—		—		—		0.8	HSF	—		—	
1968 22	15:38:47.60	SIZ	—	21	37.245	116.512	0.3	A	57	4.20	0.30	HSF	—		—		—		2.1	HSF	—		—	
1968 22	15:40:27.30	SIZ	—	21	37.243	116.510	0.3	A	54	4.10	0.30	HSF	—		—		—		1.7	HSF	—		—	
1968 22	15:47:21.00	SIZ	—	20	37.233	116.508	0.3	A	53	3.60	0.30	HSF	—		—		—		1.7	HSF	—		—	
1968 22	15:55:55.50	SIZ	—	20	37.197	116.475	0.1	A	51	1.90	0.20	HSF	—		—		—		2.9	HSF	—		—	
1968 22	16: 7:25.40	SIZ	—	21	37.192	116.513	0.2	A	86	4.40	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 22	16:16: 3.80	SIZ	—	19	37.280	116.467	0.3	B	136	3.00	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 22	16:17:22.40	SIZ	—	21	37.270	116.487	0.2	A	107	2.70	0.20	HSF	—		—		—		2.9	HSF	—		—	
1968 22	16:25:41.40	SIZ	—	19	37.277	116.485	0.3	B	133	2.00	0.30	HSF	—		—		—		1.9	HSF	—		—	
1968 22	16:38:28.30	SIZ	—	21	37.223	116.512	0.2	A	64	4.20	0.20	HSF	—		—		—		1.9	HSF	—		—	
1968 22	16:38: 4.00	SIZ	—	19	37.237	116.507	0.2	A	49	4.20	0.30	HSF	—		—		—		1.8	HSF	—		—	
1968 22	16:56:20.30	SIZ	—	20	37.250	116.485	0.4	B	54	3.90	0.40	HSF	—		—		—		2.1	HSF	—		—	
1968 22	16:59:51.10	SIZ	—	21	37.197	116.475	0.2	A	53	1.90	0.20	HSF	—		—		—		2.5	HSF	—		—	
1968 22	18:10:52.30	SIZ	—	22	37.237	116.510	0.2	A	49	4.30	0.20	HSF	—		—		—		3.3	HSF	4.2	PDX	4.3	PDX
1968 22	18:15:28.70	SIZ	—	11	37.190	116.475	0.1	A	63	1.70	0.40	HSF	—		—		—		2.0	HSF	—		—	
1968 22	19:25:21.70	SIZ	—	11	37.223	116.513	0.4	A	86	5.00	1.00	HSF	—		—		—		2.4	HSF	—		—	
1968 22	19:58:59.60	SIZ	—	11	37.232	116.482	1.3	B	88	9.60	3.40	HSF	—		—		—		2.7	HSF	—		—	
1968 22	20:53:14.00	SIZ	—	11	37.213	116.502	0.3	A	98	2.60	0.60	HSF	—		—		—		2.8	HSF	—		—	
1968 22	21:10:42.50	SIZ	—	11	37.235	116.498	0.4	A	86	3.30	0.60	HSF	—		—		—		2.5	HSF	—		—	
1968 22	22: 2: 9.40	SIZ	—	12	37.193	116.508	0.3	A	83	4.10	0.50	HSF	—		—		—		2.9	HSF	—		—	
1968 22	22: 7:22.80	SIZ	—	11	37.228	116.515	0.4	A	76	4.70	0.50	HSF	—		—		—		2.9	HSF	4.0	PDX	—	
1968 22	22:45: 9.70	SIZ	—	22	37.227	116.510	0.2	A	60	4.70	0.20	HSF	—		—		—		3.1	HSF	—		—	
1968 22	22:46: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1968 22	22:47: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1968 22	22:48: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1968 22	22:50:43.50	SIZ	—	21	37.218	116.510	0.2	A	59	4.60	0.20	HSF	—		—		—		3.1	HSF	—		—	
1968 22	23:12:10.40	SIZ	—	11	37.227	116.507	0.4	A	92	3.60	0.50	HSF	—		—		—		2.7	HSF	—		—	
1968 22	23:28:27.50	SIZ	—	11	37.200	116.508	0.4	A	104	3.70	0.50	HSF	—		—		—		3.0	HSF	—		—	
1968 23	0:50: 5.10	SIZ	—	11	37.218	116.503	0.9	B	96	3.70	1.20	HSF	—		—		—		2.5	HSF	—		—	
1968 23	1:43:44.10	SIZ	—	6	37.232	116.340	1.2	C	167	3.70	1.00	HSF	—		—		—		1.5	HSF	—		—	
1968 23	2:53:45.00	SIZ	—	25	37.230	116.510	0.2	A	57	4.20	0.20	HSF	—		—		—		3.1	HSF	—		—	
1968 23	3:26:29.90	SIZ	—	11	37.252	116.492	0.4	A	92	2.60	0.70	HSF	—		—		—		2.7	HSF	—		—	
1968 23	3:38:54.30	SIZ	—	11	37.233	116.505	0.4	A	82	3.40	0.60	HSF	—		—		—		2.6	HSF	—		—	
1968 23	4:13:36.70	SIZ	—	12	37.243	116.495	0.3	A	74	3.10	0.60	HSF	—		—		—		2.6	HSF	—		—	
1968 23	4:41:21.90	SIZ	—	11	37.193	116.510	0.4	B	153	2.50	0.50	HSF	—		—		—		2.5	HSF	—		—	
1968 23	5:44: 1.80	SIZ	—	26	37.205	116.490	0.2	A	49	3.10	0.30	HSF	—		—		—		3.2	HSF	3.9	PDX	3.9	GDY
1968 23	5:56: 2.90	SIZ	—	26	37.227	116.508	0.2	A	59	4.20	0.20	HSF	—		—		—		3.1	HSF	3.8	PDX	3.8	GDY
1968 23	7: 7:21.50	SIZ	—	10	37.202	116.492	0.2	A	64	2.20	0.70	HSF	—		—		—		1.2	HSF	—		—	
1968 23	7:23:41.20	SIZ	—	11	37.200	116.512	0.3	A	105	5.50	0.80	HSF	—		—		—		2.5	HSF	—		—	
1968 23	7:32:33.80	SIZ	—	11	37.232	116.505	0.4	A	84	3.50	0.50	HSF	—		—		—		2.4	HSF	—		—	
1968 23	7:42: 5.70	SIZ	—	11	37.270	116.458	0.3	B	132	2.20	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 23	9:25:29.30	SIZ	—	26	37.253	116.498	0.2	A	61	4.20	0.20	HSF	—		—		—		3.1	HSF	3.9	PDX	3.9	GDY

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1968 DEC 23	9:28:35.60	SIZ	—	11	37.245	116.480	0.4	A	82	3.30	0.60	HSF	—		—		—		3.0	HSF	—		—	
1968 23	9:38:40.90	SIZ	—	11	37.245	116.480	0.4	A	81	3.40	0.60	HSF	—		—		—		2.4	HSF	—		—	
1968 23	10:54:16.70	SIZ	—	11	37.222	116.507	0.3	A	95	2.90	0.40	HSF	—		—		—		2.3	HSF	—		—	
1968 23	11:22:13.40	SIZ	—	11	37.240	116.512	0.4	A	84	4.50	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 23	11:43: 5.00	SIZ	—	11	37.238	116.512	0.4	A	80	4.30	0.50	HSF	—		—		—		1.7	HSF	—		—	
1968 23	13: 9:47.60	SIZ	—	11	37.232	116.515	1.1	B	74	3.70	1.40	HSF	—		—		—		2.4	HSF	—		—	
1968 23	13:46:38.40	SIZ	—	11	37.287	116.452	0.4	B	166	4.10	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 23	14:35:51.40	SIZ	—	11	37.225	116.497	0.3	A	93	1.70	0.40	HSF	—		—		—		2.1	HSF	—		—	
1968 23	15:36: 0.50	SIZ	—	11	37.203	116.512	0.4	A	103	4.60	0.40	HSF	—		—		—		2.3	HSF	—		—	
1968 23	16:33:23.60	SIZ	—	11	37.208	116.505	0.3	A	100	3.20	0.50	HSF	—		—		—		2.3	HSF	—		—	
1968 23	17:54:47.60	SIZ	—	11	37.185	116.512	0.4	A	111	2.80	0.70	HSF	—		—		—		2.5	HSF	—		—	
1968 23	20:26:17.20	SIZ	—	12	37.255	116.473	0.4	A	67	3.40	0.50	HSF	—		—		—		2.6	HSF	—		—	
1968 23	22:21:21.40	SIZ	—	10	37.278	116.465	0.4	B	152	2.40	0.40	HSF	—		—		—		2.0	HSF	—		—	
1968 23	23:24:36.80	SIZ	—	9	37.228	116.510	0.5	A	85	3.60	0.70	HSF	—		—		—		2.0	HSF	—		—	
1968 23	23:28:16.20	SIZ	—	11	37.252	116.498	0.3	A	88	3.00	0.50	HSF	—		—		—		2.5	HSF	—		—	
1968 24	1: 6:30.60	SIZ	—	11	37.250	116.507	0.5	A	86	4.50	0.50	HSF	—		—		—		2.4	HSF	—		—	
1968 24	1:47:31.40	SIZ	—	11	37.203	116.488	0.2	A	63	1.70	0.50	HSF	—		—		—		1.4	HSF	—		—	
1968 24	2:11: 1.90	SIZ	—	11	37.253	116.495	0.4	A	91	3.20	0.60	HSF	—		—		—		2.8	HSF	—		—	
1968 24	2:13:15.20	SIZ	—	9	37.158	116.373	0.2	A	88	0.90	0.30	HSF	—		—		—		1.1	HSF	—		—	
1968 24	3:13: 8.10	SIZ	—	11	37.200	116.498	0.3	A	105	2.00	0.50	HSF	—		—		—		2.2	HSF	—		—	
1968 24	4:30:35.10	SIZ	—	10	37.157	116.368	0.3	A	87	0.60	0.40	HSF	—		—		—		2.4	HSF	—		—	
1968 24	4:44:25.70	SIZ	—	11	37.227	116.515	0.4	A	68	5.00	0.90	HSF	—		—		—		2.0	HSF	—		—	
1968 24	5:53:33.00	SIZ	—	11	37.243	116.510	0.4	A	85	4.50	0.40	HSF	—		—		—		2.4	HSF	—		—	
1968 24	6:15:46.70	SIZ	—	11	37.243	116.510	0.4	A	85	4.40	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 24	6:31:59.90	SIZ	—	11	37.243	116.507	0.5	A	82	4.20	0.50	HSF	—		—		—		2.5	HSF	—		—	
1968 24	6:44: 3.30	SIZ	—	11	37.217	116.513	0.4	A	97	5.40	0.90	HSF	—		—		—		2.3	HSF	—		—	
1968 24	7:35:54.90	SIZ	—	11	37.220	116.512	0.4	A	95	5.10	0.90	HSF	—		—		—		2.5	HSF	—		—	
1968 24	7:46: 7.60	SIZ	—	11	37.248	116.473	0.3	A	79	3.00	0.50	HSF	—		—		—		2.3	HSF	—		—	
1968 24	8:29:14.50	SIZ	—	11	37.238	116.512	0.4	A	81	4.40	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 24	9:22:39.10	SIZ	—	11	37.250	116.513	0.4	A	94	4.70	0.40	HSF	—		—		—		2.4	HSF	—		—	
1968 24	9:58:41.00	SIZ	—	11	37.188	116.510	0.3	A	110	3.80	0.40	HSF	—		—		—		2.6	HSF	—		—	
1968 24	10:10:30.10	SIZ	—	27	37.190	116.510	0.2	A	56	4.70	0.20	HSF	—		—		—		3.0	HSF	—		—	
1968 24	10:35:13.80	SIZ	—	12	37.190	116.498	0.2	A	77	2.10	0.70	HSF	—		—		—		1.8	HSF	—		—	
1968 24	11:23:32.60	SIZ	—	11	37.235	116.513	0.5	A	78	4.40	0.50	HSF	—		—		—		2.0	HSF	—		—	
1968 24	11:51: 4.40	SIZ	—	11	37.228	116.503	0.4	A	91	3.50	0.50	HSF	—		—		—		2.6	HSF	—		—	
1968 24	12:15:54.60	SIZ	—	11	37.188	116.502	0.3	A	110	2.90	0.50	HSF	—		—		—		2.8	HSF	—		—	
1968 24	13:18:45.60	SIZ	—	11	37.277	116.463	0.3	B	149	2.80	0.50	HSF	—		—		—		2.4	HSF	—		—	
1968 24	13:41: 6.20	SIZ	—	11	37.180	116.513	0.3	A	114	2.90	0.50	HSF	—		—		—		2.5	HSF	—		—	
1968 24	14:39:45.30	SIZ	—	12	37.250	116.505	0.4	A	85	4.40	0.40	HSF	—		—		—		1.8	HSF	—		—	
1968 24	15: 0:58.90	SIZ	—	12	37.212	116.498	0.2	A	61	2.50	0.50	HSF	—		—		—		2.0	HSF	—		—	
1968 24	15:20: 0.40	SIZ	—	11	37.278	116.460	0.4	B	151	2.70	0.60	HSF	—		—		—		1.8	HSF	—		—	
1968 24	15:25: 0.20	SIZ	—	12	37.270	116.463	0.3	B	134	2.70	0.40	HSF	—		—		—		2.4	HSF	—		—	
1968 24	15:27:59.40	SIZ	—	10	37.238	116.507	0.4	A	78	4.40	0.50	HSF	—		—		—		1.5	HSF	—		—	
1968 24	15:34:28.90	SIZ	—	12	37.215	116.512	0.3	A	61	5.50	0.80	HSF	—		—		—		1.7	HSF	—		—	
1968 24	15:36:23.70	SIZ	—	11	37.223	116.510	0.4	A	62	4.00	0.60	HSF	—		—		—		1.0	HSF	—		—	
1968 24	20:47:59.70	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1968 24	22:33: 6.20	SIZ	—	12	37.202	116.485	0.2	A	62	2.70	0.40	HSF	—		—		—		2.9	HSF	—		—	
1968 24	22:41: 6.10	SIZ	—	12	37.220	116.495	0.3	A	59	3.50	0.50	HSF	—		—		—		2.3	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1968 DEC 24	23: 4: 8.50	SIZ	—	12	37.212	116.513	0.3	A	63	5.60	0.80	HSF	—		—		—		1.6	HSF	—		—	
1968 25	0:15: 1.80	SIZ	—	11	37.255	116.468	0.4	A	75	2.30	0.50	HSF	—		—		—		1.8	HSF	—		—	
1968 25	2:10:36.10	SIZ	—	11	37.193	116.512	0.3	A	107	3.60	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 25	2:49:29.60	SIZ	—	11	37.192	116.510	0.3	A	108	3.60	0.40	HSF	—		—		—		2.9	HSF	—		—	
1968 25	3:11:26.50	SIZ	—	11	37.240	116.512	0.4	A	84	4.40	0.40	HSF	—		—		—		2.6	HSF	—		—	
1968 25	3:44: 4.10	SIZ	—	11	37.193	116.510	0.3	A	108	3.10	0.40	HSF	—		—		—		2.6	HSF	—		—	
1968 25	4:45:58.80	SIZ	—	10	37.177	116.498	0.3	A	82	1.60	0.60	HSF	—		—		—		2.2	HSF	—		—	
1968 25	5:40:52.20	SIZ	—	11	37.260	116.493	0.4	A	106	3.10	0.60	HSF	—		—		—		2.3	HSF	—		—	
1968 25	6:10:45.60	SIZ	—	7	37.185	116.478	0.2	B	130	1.10	0.90	HSF	—		—		—		2.0	HSF	—		—	
1968 25	6:56:21.20	SIZ	—	11	37.250	116.498	0.4	A	87	3.90	0.40	HSF	—		—		—		2.7	HSF	—		—	
1968 25	7:23: 2.10	SIZ	—	11	37.220	116.520	0.7	B	76	6.60	1.60	HSF	—		—		—		2.5	HSF	—		—	
1968 25	7:42:41.20	SIZ	—	10	37.193	116.488	0.2	A	112	2.00	0.30	HSF	—		—		—		2.4	HSF	—		—	
1968 25	9: 3:49.90	SIZ	—	11	37.213	116.512	0.3	A	98	4.60	0.30	HSF	—		—		—		2.0	HSF	—		—	
1968 25	9:39: 8.80	SIZ	—	11	37.240	116.500	0.4	A	78	3.60	0.50	HSF	—		—		—		2.7	HSF	—		—	
1968 25	10:15: 5.20	SIZ	—	11	37.210	116.515	0.4	A	100	5.50	0.90	HSF	—		—		—		2.2	HSF	—		—	
1968 25	11:36:34.10	SIZ	—	11	37.292	116.452	0.2	B	174	4.40	0.20	HSF	—		—		—		2.2	HSF	—		—	
1968 25	11:47:19.70	SIZ	—	11	37.223	116.502	0.3	A	94	2.70	0.60	HSF	—		—		—		2.0	HSF	—		—	
1968 25	12:38:12.40	SIZ	—	11	37.243	116.488	0.4	A	82	3.10	0.70	HSF	—		—		—		2.4	HSF	—		—	
1968 25	13:35:52.90	SIZ	—	11	37.222	116.488	0.2	A	94	1.90	0.30	HSF	—		—		—		2.3	HSF	—		—	
1968 25	14:35: 4.80	SIZ	—	11	37.248	116.510	0.5	A	88	4.60	0.50	HSF	—		—		—		2.7	HSF	—		—	
1968 25	15: 6:44.90	SIZ	—	12	37.198	116.467	0.2	B	59	2.80	0.40	HSF	—		—		—		2.2	HSF	—		—	
1968 25	16:32:28.60	SIZ	—	11	37.213	116.502	1.1	B	98	4.10	1.50	HSF	—		—		—		1.9	HSF	—		—	
1968 25	17:52: 9.70	SIZ	—	11	37.213	116.515	0.5	A	99	5.50	1.10	HSF	—		—		—		2.2	HSF	—		—	
1968 25	18: 3:43.30	SIZ	—	11	37.245	116.505	0.4	A	81	4.30	0.50	HSF	—		—		—		2.7	HSF	—		—	
1968 25	19:32:17.90	SIZ	—	11	37.247	116.508	0.4	A	85	4.40	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 25	21: 1:13.40	SIZ	—	11	37.227	116.507	0.4	A	90	4.40	0.40	HSF	—		—		—		2.2	HSF	—		—	
1968 25	22: 7:39.80	SIZ	—	11	37.247	116.508	0.4	A	86	4.50	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 25	23: 0:55.80	SIZ	—	12	37.252	116.505	0.4	A	88	4.50	0.40	HSF	—		—		—		2.1	HSF	—		—	
1968 25	23: 2:13.70	SIZ	—	12	37.198	116.515	0.3	A	85	2.30	0.40	HSF	—		—		—		2.1	HSF	—		—	
1968 25	23:15:51.80	SIZ	—	12	37.198	116.517	0.3	A	86	2.20	0.40	HSF	—		—		—		2.1	HSF	—		—	
1968 25	23:17:37.90	SIZ	—	11	37.198	116.518	0.6	B	88	2.60	1.10	HSF	—		—		—		1.8	HSF	—		—	
1968 25	23:22:26.70	SIZ	—	11	37.225	116.505	1.0	B	62	4.40	1.30	HSF	—		—		—		1.8	HSF	—		—	
1968 25	23:33:16.60	SIZ	—	11	37.232	116.503	0.6	B	69	3.50	0.90	HSF	—		—		—		1.8	HSF	—		—	
1968 25	23:56:18.80	SIZ	—	11	37.243	116.503	0.5	A	78	3.30	0.80	HSF	—		—		—		2.8	HSF	—		—	
1968 26	0: 0: 9.20	SIZ	—	10	37.247	116.502	0.5	A	79	3.50	0.80	HSF	—		—		—		1.9	HSF	—		—	
1968 26	2:34:44.30	SIZ	—	12	37.232	116.505	0.3	A	70	3.50	0.50	HSF	—		—		—		2.8	HSF	—		—	
1968 26	3:15:46.30	SIZ	—	12	37.248	116.503	0.4	A	82	4.00	0.40	HSF	—		—		—		3.0	HSF	3.9	PDX	—	
1968 26	3:44:37.70	SIZ	—	12	37.240	116.498	0.3	A	71	3.50	0.50	HSF	—		—		—		2.6	HSF	—		—	
1968 26	4: 4:43.90	SIZ	—	11	37.238	116.508	0.3	A	77	4.20	0.50	HSF	—		—		—		2.1	HSF	—		—	
1968 26	5: 6:42.00	SIZ	—	12	37.252	116.497	0.4	A	90	3.40	0.60	HSF	—		—		—		2.1	HSF	—		—	
1968 26	5:48:18.10	SIZ	—	12	37.237	116.518	0.7	B	85	4.20	0.80	HSF	—		—		—		2.6	HSF	—		—	
1968 26	6:55:25.90	SIZ	—	12	37.245	116.505	0.5	A	81	4.00	0.60	HSF	—		—		—		2.7	HSF	—		—	
1968 26	7: 4:13.60	SIZ	—	11	37.275	116.485	0.3	B	138	2.00	0.20	HSF	—		—		—		2.5	HSF	—		—	
1968 26	7: 6:54.30	SIZ	—	13	37.202	116.473	0.1	A	60	1.50	0.30	HSF	—		—		—		2.5	HSF	—		—	
1968 26	7:41:32.10	SIZ	—	11	37.250	116.508	0.6	A	90	4.60	0.60	HSF	—		—		—		2.7	HSF	—		—	
1968 26	8:36:30.90	SIZ	—	12	37.212	116.508	0.3	A	63	4.70	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 26	8:49: 6.20	SIZ	—	12	37.205	116.495	0.2	A	63	3.10	0.30	HSF	—		—		—		2.4	HSF	—		—	
1968 26	8:59:49.50	SIZ	—	11	37.187	116.390	0.3	A	84	7.30	1.00	HSF	—		—		—		2.4	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1968 DEC 26	9:25: 0.30	SIZ	—	6	37.190	116.387	0.1	B	162	6.20	0.20	HSF	—		—		—		1.1	HSF	—		—	
1968 26	10:30:23.60	SIZ	—	12	37.232	116.507	0.4	A	71	3.30	0.50	HSF	—		—		—		2.0	HSF	—		—	
1968 26	11:14:13.60	SIZ	—	12	37.210	116.505	0.2	A	63	2.50	0.40	HSF	—		—		—		2.7	HSF	—		—	
1968 26	11:36:29.00	SIZ	—	12	37.255	116.495	0.4	A	93	3.10	0.60	HSF	—		—		—		2.6	HSF	—		—	
1968 26	12: 5:47.00	SIZ	—	10	37.202	116.477	0.1	A	64	1.90	0.20	HSF	—		—		—		2.0	HSF	—		—	
1968 26	13:40:17.60	SIZ	—	12	37.232	116.495	0.3	A	64	3.10	0.60	HSF	—		—		—		2.1	HSF	—		—	
1968 26	14: 6:34.10	SIZ	—	12	37.248	116.477	0.3	A	63	2.80	0.50	HSF	—		—		—		2.2	HSF	—		—	
1968 26	15:13:23.20	SIZ	—	12	37.240	116.510	0.4	A	82	4.30	0.50	HSF	—		—		—		2.0	HSF	—		—	
1968 26	15:15:12.20	SIZ	—	10	37.203	116.488	0.3	A	63	2.80	0.70	HSF	—		—		—		1.7	HSF	—		—	
1968 26	16:19:36.00	SIZ	—	11	37.197	116.513	0.5	A	85	5.00	0.50	HSF	—		—		—		2.0	HSF	—		—	
1968 26	16:24:11.80	SIZ	—	11	37.222	116.545	0.4	A	95	4.00	0.40	HSF	—		—		—		2.3	HSF	—		—	
1968 26	17: 4:45.10	SIZ	—	11	37.253	116.503	0.4	A	88	4.60	0.50	HSF	—		—		—		2.5	HSF	—		—	
1968 26	18:43:18.70	SIZ	—	10	37.260	116.467	0.4	A	104	2.20	0.40	HSF	—		—		—		1.9	HSF	—		—	
1968 26	21: 7:50.30	SIZ	—	27	37.255	116.503	0.2	A	48	4.80	0.20	HSF	—		—		—		3.1	HSF	—		—	
1968 26	21:11: 3.20	SIZ	—	10	37.243	116.500	0.6	B	152	3.40	0.80	HSF	—		—		—		2.3	HSF	—		—	
1968 26	21:42: 7.90	SIZ	—	10	37.247	116.500	0.5	A	82	3.40	0.80	HSF	—		—		—		1.9	HSF	—		—	
1968 26	22:14: 6.90	SIZ	—	9	37.128	116.293	0.8	B	152	3.90	0.80	HSF	—		—		—		2.1	HSF	—		—	
1968 26	22:29:21.80	SIZ	—	8	37.127	116.290	1.0	B	160	4.20	0.80	HSF	—		—		—		1.9	HSF	—		—	
1968 26	23:58:34.40	SIZ	—	11	37.243	116.502	0.4	A	78	3.40	0.70	HSF	—		—		—		2.0	HSF	—		—	
1968 26	23:59:20.90	SIZ	—	8	37.252	116.510	0.7	A	92	4.40	0.70	HSF	—		—		—		1.8	HSF	—		—	
1968 27	0:17:18.60	SIZ	—	11	37.255	116.503	0.5	A	91	4.50	0.40	HSF	—		—		—		2.6	HSF	—		—	
1968 27	1:10:47.10	SIZ	—	20	37.253	116.507	0.2	A	76	4.60	0.20	HSF	—		—		—		3.2	HSF	—		—	
1968 27	3:22:37.40	SIZ	—	23	37.268	116.495	0.2	A	101	3.60	0.20	HSF	—		—		—		3.0	HSF	4.1	PDX	—	
1968 27	4: 9:32.10	SIZ	—	11	37.262	116.493	0.4	A	107	3.00	0.60	HSF	—		—		—		2.5	HSF	—		—	
1968 27	5:22:56.00	SIZ	—	11	37.223	116.507	0.3	A	94	3.30	0.50	HSF	—		—		—		2.3	HSF	—		—	
1968 27	5:34:47.10	SIZ	—	11	37.225	116.510	0.4	A	89	4.70	0.40	HSF	—		—		—		2.3	HSF	—		—	
1968 27	5:51:37.80	SIZ	—	10	37.255	116.507	0.5	B	121	4.50	0.50	HSF	—		—		—		1.8	HSF	—		—	
1968 27	7:37:59.20	SIZ	—	10	37.247	116.495	0.4	A	111	3.40	0.60	HSF	—		—		—		2.1	HSF	—		—	
1968 27	8:30:18.70	SIZ	—	9	37.202	116.508	0.4	B	123	0.10	2.30	HSF	—		—		—		2.1	HSF	—		—	
1968 27	9: 1:35.20	SIZ	—	9	37.205	116.513	0.6	B	127	1.30	4.90	HSF	—		—		—		2.0	HSF	—		—	
1968 27	9:11:44.80	SIZ	—	9	37.212	116.500	0.3	B	118	0.50	2.00	HSF	—		—		—		2.1	HSF	—		—	
1968 27	10: 0:30.90	SIZ	—	9	37.240	116.498	0.5	A	115	2.40	1.00	HSF	—		—		—		2.3	HSF	—		—	
1968 27	12:30:13.80	SIZ	—	9	37.178	116.510	0.3	B	120	3.10	0.60	HSF	—		—		—		2.4	HSF	—		—	
1968 27	14: 2:42.30	SIZ	—	9	37.237	116.510	0.6	B	127	3.20	1.00	HSF	—		—		—		2.2	HSF	—		—	
1968 27	14:38:48.10	SIZ	—	9	37.253	116.503	0.5	A	117	4.30	0.60	HSF	—		—		—		2.2	HSF	—		—	
1968 27	14:58:40.00	SIZ	—	9	37.237	116.510	0.5	B	126	2.30	1.20	HSF	—		—		—		2.3	HSF	—		—	
1968 27	16:20:24.80	SIZ	—	9	37.202	116.508	0.5	C	123	1.30	5.60	HSF	—		—		—		2.7	HSF	—		—	
1968 27	16:38:23.50	SIZ	—	7	37.238	116.512	0.6	B	128	1.90	0.90	HSF	—		—		—		2.0	HSF	—		—	
1968 27	19: 9:22.90	SIZ	—	9	37.220	116.507	0.4	B	95	1.50	0.60	HSF	—		—		—		2.2	HSF	—		—	
1968 27	20:35:38.50	SIZ	—	9	37.217	116.548	0.5	A	106	3.80	0.50	HSF	—		—		—		2.4	HSF	—		—	
1968 27	21: 4:55.30	SIZ	—	11	37.240	116.497	0.4	A	80	3.20	0.70	HSF	—		—		—		2.6	HSF	—		—	
1968 27	23:29: 2.40	SIZ	—	26	37.248	116.505	0.2	A	43	4.30	0.20	HSF	—		—		2.9	PAS	3.0	HSF	—		2.9	GDY
1968 27	23:45:22.60	SIZ	—	10	37.267	116.482	0.3	B	124	1.80	0.20	HSF	—		—		—		2.6	HSF	—		—	
1968 28	0:19:21.80	SIZ	—	10	37.245	116.495	1.0	C	151	0.00	0.90	HSF	—		—		—		2.1	HSF	—		—	
1968 28	0:24: 9.10	SIZ	—	11	37.248	116.508	0.4	A	88	4.50	0.40	HSF	—		—		—		1.6	HSF	—		—	
1968 28	1:38:25.80	SIZ	—	11	37.242	116.510	0.4	A	83	4.50	0.40	HSF	—		—		—		2.3	HSF	—		—	
1968 28	2:14:36.20	SIZ	—	11	37.237	116.480	0.3	A	85	2.80	0.50	HSF	—		—		—		2.1	HSF	—		—	
1968 28	2:29:28.40	SIZ	—	11	37.265	116.472	0.4	A	119	3.90	0.50	HSF	—		—		—		2.5	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1968 DEC 28	2:34:35.60	SIZ	—	11	37.202	116.507	0.3	A	103	3.20	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 28	2:43:33.40	SIZ	—	11	37.242	116.508	0.4	A	83	4.00	0.50	HSF	—		—		—		2.4	HSF	—		—	
1968 28	2:46:53.30	SIZ	—	11	37.243	116.510	0.4	A	83	4.20	0.50	HSF	—		—		—		2.6	HSF	—		—	
1968 28	3:33:17.70	SIZ	—	19	37.245	116.483	0.2	A	51	3.90	0.20	HSF	—		—		—		3.0	HSF	—		—	
1968 28	3:55:55.20	SIZ	—	9	37.183	116.498	0.4	B	193	1.90	0.60	HSF	—		—		—		1.6	HSF	—		—	
1968 28	4:19:37.40	SIZ	—	22	37.232	116.493	0.2	A	55	4.00	0.20	HSF	—		—		—		3.1	HSF	—		—	
1968 28	5:14:39.50	SIZ	—	11	37.222	116.507	0.3	A	95	3.00	0.50	HSF	—		—		—		2.3	HSF	—		—	
1968 28	5:58:18.20	SIZ	—	11	37.225	116.547	0.8	B	91	4.00	0.80	HSF	—		—		—		2.0	HSF	—		—	
1968 28	6: 2:25.70	SIZ	—	11	37.222	116.548	0.4	A	98	4.00	0.40	HSF	—		—		—		2.0	HSF	—		—	
1968 28	6:44:29.30	SIZ	—	11	37.250	116.508	0.4	A	89	4.90	0.40	HSF	—		—		—		1.9	HSF	—		—	
1968 28	6:49:17.30	SIZ	—	10	37.233	116.505	0.4	A	81	3.20	0.60	HSF	—		—		—		1.4	HSF	—		—	
1968 28	7:34:19.10	SIZ	—	11	37.247	116.510	0.4	A	88	4.50	0.40	HSF	—		—		—		2.2	HSF	—		—	
1968 28	8:48:17.80	SIZ	—	11	37.243	116.512	0.4	A	87	4.40	0.40	HSF	—		—		—		2.1	HSF	—		—	
1968 28	9:11:26.30	SIZ	—	11	37.233	116.500	0.3	A	85	3.40	0.50	HSF	—		—		—		2.7	HSF	—		—	
1968 28	11:18:45.60	SIZ	—	11	37.238	116.517	0.4	A	84	4.50	0.40	HSF	—		—		—		2.0	HSF	—		—	
1968 28	12: 4:58.80	SIZ	—	10	37.227	116.490	0.3	A	92	3.10	0.60	HSF	—		—		—		2.7	HSF	—		—	
1968 28	12:28: 2.70	SIZ	—	10	37.222	116.497	0.3	A	94	3.30	0.50	HSF	—		—		—		2.4	HSF	—		—	
1968 28	13: 0:42.30	SIZ	—	11	37.210	116.512	0.4	A	100	4.90	0.40	HSF	—		—		—		2.0	HSF	—		—	
1968 28	13: 4:52.40	SIZ	—	11	37.240	116.508	0.4	A	80	4.90	0.40	HSF	—		—		—		2.2	HSF	—		—	
1968 28	13: 7:39.40	SIZ	—	11	37.208	116.512	0.3	A	100	4.90	0.40	HSF	—		—		—		2.6	HSF	—		—	
1968 28	13: 9: 7.70	SIZ	—	11	37.210	116.512	0.4	A	100	4.90	0.40	HSF	—		—		—		2.4	HSF	—		—	
1968 28	13:13:36.00	SIZ	—	11	37.222	116.495	0.3	A	95	2.80	0.70	HSF	—		—		—		2.3	HSF	—		—	
1968 28	13:30:48.10	SIZ	—	11	37.205	116.512	0.9	B	102	4.20	1.10	HSF	—		—		—		2.0	HSF	—		—	
1968 28	13:34: 1.80	SIZ	—	11	37.242	116.495	0.8	B	80	1.40	1.20	HSF	—		—		—		2.4	HSF	—		—	
1968 28	13:35:38.70	SIZ	—	11	37.210	116.513	0.3	A	100	5.30	0.70	HSF	—		—		—		2.4	HSF	—		—	
1968 28	13:40:57.30	SIZ	—	11	37.245	116.503	0.4	A	79	3.10	0.70	HSF	—		—		—		2.1	HSF	—		—	
1968 28	13:44:18.10	SIZ	—	11	37.203	116.510	0.3	A	103	2.80	0.50	HSF	—		—		—		1.7	HSF	—		—	
1968 28	14:22:18.80	SIZ	—	11	37.248	116.485	0.3	A	77	2.20	0.40	HSF	—		—		—		1.9	HSF	—		—	
1968 28	14:49:13.60	SIZ	—	11	37.203	116.512	0.3	A	103	4.80	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 28	15: 4:30.60	SIZ	—	22	37.263	116.497	0.2	A	76	4.00	0.20	HSF	—		—		—		3.0	HSF	—		—	
1968 28	15:17:44.60	SIZ	—	11	37.218	116.502	0.3	A	96	1.80	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 28	15:24:32.80	SIZ	—	11	37.247	116.512	0.4	A	89	4.60	0.40	HSF	—		—		—		2.1	HSF	—		—	
1968 28	16: 7:46.30	SIZ	—	11	37.203	116.512	0.3	A	103	5.50	0.80	HSF	—		—		—		1.6	HSF	—		—	
1968 28	17: 6:20.70	SIZ	—	11	37.203	116.512	0.4	A	103	5.40	0.90	HSF	—		—		—		2.5	HSF	—		—	
1968 28	17:18:33.60	SIZ	—	11	37.252	116.508	0.4	A	91	4.60	0.40	HSF	—		—		—		1.8	HSF	—		—	
1968 28	17:34:34.20	SIZ	—	11	37.425	116.553	1.7	C	289	10.80	1.40	HSF	—		—		—		2.2	HSF	—		—	
1968 28	18:10:37.00	SIZ	—	11	37.198	116.492	1.1	C	105	2.20	2.30	HSF	—		—		—		2.0	HSF	—		—	
1968 28	19: 3:20.00	SIZ	—	11	37.263	116.495	0.4	A	110	3.90	0.50	HSF	—		—		—		2.2	HSF	—		—	
1968 28	19:22:25.60	SIZ	—	11	37.263	116.483	0.3	A	114	2.30	0.30	HSF	—		—		—		2.1	HSF	—		—	
1968 28	19:51:59.80	SIZ	—	11	37.202	116.485	0.1	A	104	2.00	0.30	HSF	—		—		—		2.6	HSF	—		—	
1968 28	19:54:14.50	SIZ	—	11	37.200	116.483	0.2	A	104	1.90	0.30	HSF	—		—		—		2.2	HSF	—		—	
1968 28	19:58:10.10	SIZ	—	10	37.197	116.502	0.3	A	106	2.60	0.50	HSF	—		—		—		1.9	HSF	—		—	
1968 28	21:48:18.40	SIZ	—	11	37.253	116.510	0.4	A	93	4.80	0.40	HSF	—		—		—		2.3	HSF	—		—	
1968 28	23: 3:51.60	SIZ	—	10	37.243	116.510	0.5	A	86	4.40	0.60	HSF	—		—		—		1.9	HSF	—		—	
1968 28	23:43:32.80	SIZ	—	10	37.212	116.500	0.2	A	99	2.50	0.30	HSF	—		—		—		1.7	HSF	—		—	
1968 29	1:21:34.90	SIZ	—	10	37.210	116.552	0.5	A	118	4.30	0.50	HSF	—		—		—		2.2	HSF	—		—	
1968 29	1:24:43.10	SIZ	—	11	37.218	116.548	0.4	A	105	3.80	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 29	1:28: 7.70	SIZ	—	11	37.227	116.500	0.4	A	93	3.80	0.60	HSF	—		—		—		2.1	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1968 DEC 29	2:12:34.40	SIZ	—	11	37.262	116.468	0.3	A	112	3.20	0.40	HSF	—		—		—		2.6	HSF	—		—	
1968 29	2:13:33.10	SIZ	—	23	37.267	116.470	0.2	A	73	3.20	0.20	HSF	—		—		—		3.0	HSF	—		—	
1968 29	2:22:57.00	SIZ	—	20	37.267	116.470	0.2	A	74	3.30	0.20	HSF	—		—		—		3.1	HSF	—		—	
1968 29	2:33: 1.30	SIZ	—	10	37.245	116.513	0.5	A	89	4.50	0.50	HSF	—		—		—		2.3	HSF	—		—	
1968 29	2:59:12.80	SIZ	—	9	37.268	116.513	0.4	A	101	5.40	0.90	HSF	—		—		—		2.0	HSF	—		—	
1968 29	2:59:45.30	SIZ	—	11	37.230	116.500	0.3	A	91	3.10	0.60	HSF	—		—		—		2.4	HSF	—		—	
1968 29	3:15: 0.90	SIZ	—	11	37.212	116.510	0.4	A	98	4.90	0.40	HSF	—		—		—		2.1	HSF	—		—	
1968 29	3:33: 4.40	SIZ	—	8	37.222	116.520	1.7	B	95	6.70	5.20	HSF	—		—		—		2.1	HSF	—		—	
1968 29	3:43:36.20	SIZ	—	10	37.265	116.468	0.4	A	120	2.90	0.70	HSF	—		—		—		2.7	HSF	—		—	
1968 29	3:51:29.00	SIZ	—	11	37.230	116.507	0.4	A	85	4.50	0.40	HSF	—		—		—		1.9	HSF	—		—	
1968 29	3:54: 5.00	SIZ	—	11	37.210	116.513	0.3	A	99	5.50	0.80	HSF	—		—		—		2.0	HSF	—		—	
1968 29	3:56:50.50	SIZ	—	9	37.243	116.510	0.6	A	86	4.40	0.70	HSF	—		—		—		2.0	HSF	—		—	
1968 29	4:50:14.60	SIZ	—	11	37.250	116.513	0.4	A	93	4.50	0.40	HSF	—		—		—		1.9	HSF	—		—	
1968 29	5:12: 9.90	SIZ	—	11	37.243	116.475	0.3	A	81	2.90	0.50	HSF	—		—		—		2.5	HSF	—		—	
1968 29	5:17:29.50	SIZ	—	11	37.273	116.483	0.3	B	137	2.20	0.40	HSF	—		—		—		2.4	HSF	—		—	
1968 29	5:21:28.10	SIZ	—	26	37.247	116.512	0.2	A	44	4.50	0.20	HSF	—		—		—		2.5	HSF	—		—	
1968 29	5:25:52.70	SIZ	—	11	37.235	116.488	0.3	A	86	3.10	0.60	HSF	—		—		—		2.2	HSF	—		—	
1968 29	5:27:59.90	SIZ	—	11	37.237	116.480	0.3	A	85	2.90	0.60	HSF	—		—		—		2.6	HSF	—		—	
1968 29	5:29:54.10	SIZ	—	26	37.240	116.480	0.3	B	40	3.60	0.30	HSF	—		—		—		3.1	HSF	—		—	
1968 29	5:33:20.40	SIZ	—	11	37.220	116.548	0.4	A	102	3.70	0.40	HSF	—		—		—		1.9	HSF	—		—	
1968 29	6:41:35.10	SIZ	—	10	37.233	116.502	0.5	A	85	3.10	0.80	HSF	—		—		—		1.4	HSF	—		—	
1968 29	6:55:46.00	SIZ	—	10	37.252	116.510	0.5	A	93	4.70	0.40	HSF	—		—		—		2.0	HSF	—		—	
1968 29	8:52: 0.00	SIZ	—	11	37.225	116.498	0.4	A	94	3.70	0.50	HSF	—		—		—		2.2	HSF	—		—	
1968 29	10:26:56.10	SIZ	—	11	37.218	116.503	0.3	A	96	3.30	0.50	HSF	—		—		—		1.7	HSF	—		—	
1968 29	11:35:37.40	SIZ	—	11	37.267	116.490	0.3	A	120	2.90	0.50	HSF	—		—		—		2.2	HSF	—		—	
1968 29	12:19:33.90	SIZ	—	11	37.217	116.548	0.4	A	107	3.80	0.50	HSF	—		—		—		2.0	HSF	—		—	
1968 29	13:24: 1.20	SIZ	—	12	37.255	116.512	0.4	A	97	4.80	0.30	HSF	—		—		—		2.3	HSF	—		—	
1968 29	13:34:36.30	SIZ	—	7	37.253	116.478	0.4	B	171	2.60	0.90	HSF	—		—		—		1.7	HSF	—		—	
1968 29	14:46:30.40	SIZ	—	11	37.238	116.498	0.3	A	81	3.40	0.50	HSF	—		—		—		2.4	HSF	—		—	
1968 29	15:51:47.10	SIZ	—	11	37.262	116.495	0.4	A	107	3.80	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 29	16:13:31.00	SIZ	—	11	37.252	116.503	0.4	A	85	4.40	0.40	HSF	—		—		—		2.4	HSF	—		—	
1968 29	16:17: 8.10	SIZ	—	11	37.252	116.500	0.4	A	88	4.30	0.40	HSF	—		—		—		2.1	HSF	—		—	
1968 29	16:59:19.10	SIZ	—	11	37.265	116.502	0.4	A	107	4.60	0.40	HSF	—		—		—		2.4	HSF	—		—	
1968 29	17:55:55.30	SIZ	—	10	37.248	116.512	0.5	A	89	4.80	0.40	HSF	—		—		—		1.5	HSF	—		—	
1968 29	18:48:19.10	SIZ	—	11	37.260	116.470	0.3	A	110	3.00	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 29	18:53:25.30	SIZ	—	11	37.242	116.507	0.5	A	79	3.80	0.60	HSF	—		—		—		1.7	HSF	—		—	
1968 29	19:24:23.30	SIZ	—	11	37.217	116.548	0.5	A	109	3.60	0.50	HSF	—		—		—		2.6	HSF	—		—	
1968 29	19:30:37.90	SIZ	—	11	37.265	116.517	0.9	B	113	4.70	0.80	HSF	—		—		—		1.5	HSF	—		—	
1968 29	21:17:18.50	SIZ	—	11	37.245	116.482	0.5	B	81	3.60	0.90	HSF	—		—		—		2.4	HSF	—		—	
1968 29	21:22:45.30	SIZ	—	11	37.218	116.547	0.5	A	105	4.10	0.50	HSF	—		—		—		2.3	HSF	—		—	
1968 29	21:27:51.50	SIZ	—	11	37.218	116.547	0.4	A	101	3.70	0.50	HSF	—		—		—		2.3	HSF	—		—	
1968 29	21:45: 8.90	SIZ	—	11	37.217	116.548	0.5	A	107	4.00	0.50	HSF	—		—		—		2.6	HSF	—		—	
1968 29	23:38:29.50	SIZ	—	11	37.237	116.507	0.4	A	76	3.40	0.60	HSF	—		—		—		2.0	HSF	—		—	
1968 29	23:51: 7.10	SIZ	—	11	37.245	116.503	0.4	A	81	3.10	0.80	HSF	—		—		—		1.8	HSF	—		—	
1968 30	0: 9:32.20	SIZ	—	11	37.250	116.510	0.5	A	92	4.60	0.50	HSF	—		—		—		2.1	HSF	—		—	
1968 30	0:15:57.10	SIZ	—	25	37.230	116.493	0.1	A	56	3.70	0.20	HSF	—		—		—		2.9	HSF	—		—	
1968 30	2: 3:32.80	SIZ	—	11	37.253	116.510	0.4	A	92	4.70	0.40	HSF	—		—		—		2.2	HSF	—		—	
1968 30	2:28:41.10	SIZ	—	11	37.220	116.547	0.4	A	100	4.10	0.40	HSF	—		—		—		2.3	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1968 DEC 30	2:46:34.70	SIZ	—	11	37.253	116.510	0.4	A	93	4.70	0.40	HSF	—		—		—		2.5	HSF	—		—	
1968 30	3: 1:58.90	SIZ	—	11	37.237	116.488	0.4	A	86	2.90	0.70	HSF	—		—		—		2.4	HSF	—		—	
1968 30	3:10:33.10	SIZ	—	11	37.247	116.500	0.4	A	81	3.30	0.70	HSF	—		—		—		2.6	HSF	—		—	
1968 30	4: 8:13.70	SIZ	—	11	37.213	116.505	0.3	A	99	3.50	0.50	HSF	—		—		—		1.9	HSF	—		—	
1968 30	4:13:27.00	SIZ	—	11	37.213	116.510	0.4	A	98	4.50	0.50	HSF	—		—		—		2.0	HSF	—		—	
1968 30	4:40:27.80	SIZ	—	11	37.217	116.550	0.4	A	111	4.10	0.40	HSF	—		—		—		2.6	HSF	—		—	
1968 30	4:58:33.00	SIZ	—	10	37.218	116.548	0.4	A	105	4.10	0.40	HSF	—		—		—		2.0	HSF	—		—	
1968 30	5:45:28.40	SIZ	—	11	37.240	116.515	0.5	A	86	4.50	0.50	HSF	—		—		—		2.6	HSF	—		—	
1968 30	5:54:59.00	SIZ	—	11	37.263	116.493	0.4	A	110	3.00	0.60	HSF	—		—		—		1.9	HSF	—		—	
1968 30	6:18:44.80	SIZ	—	11	37.230	116.505	0.3	A	87	3.30	0.50	HSF	—		—		—		1.7	HSF	—		—	
1968 30	6:40: 1.40	SIZ	—	11	37.238	116.512	0.5	A	81	4.20	0.60	HSF	—		—		—		1.5	HSF	—		—	
1968 30	8:42:15.40	SIZ	—	10	37.235	116.482	0.3	A	86	2.90	0.60	HSF	—		—		—		2.0	HSF	—		—	
1968 30	9: 0: 1.50	SIZ	—	10	37.238	116.513	0.4	A	83	4.60	0.50	HSF	—		—		—		1.8	HSF	—		—	
1968 30	9:33:38.40	SIZ	—	11	37.225	116.498	0.4	A	94	3.80	0.50	HSF	—		—		—		1.8	HSF	—		—	
1968 30	9:54:23.10	SIZ	—	9	37.218	116.553	0.4	A	116	3.90	0.40	HSF	—		—		—		1.8	HSF	—		—	
1968 30	10: 7: 2.40	SIZ	—	10	37.250	116.512	0.4	A	93	4.70	0.50	HSF	—		—		—		1.7	HSF	—		—	
1968 30	11: 9: 6.10	SIZ	—	11	37.233	116.483	0.3	A	87	3.00	0.50	HSF	—		—		—		1.8	HSF	—		—	
1968 30	13:16:38.00	SIZ	—	10	37.223	116.545	0.5	A	91	3.70	0.50	HSF	—		—		—		1.7	HSF	—		—	
1968 30	14:16:31.50	SIZ	—	11	37.220	116.512	0.4	A	96	4.60	0.50	HSF	—		—		—		2.4	HSF	—		—	
1968 30	15:30: 5.80	SIZ	—	10	37.250	116.473	0.4	A	90	3.30	0.80	HSF	—		—		—		1.6	HSF	—		—	
1968 30	16:51:19.20	SIZ	—	11	37.223	116.498	0.4	A	94	3.30	0.60	HSF	—		—		—		2.2	HSF	—		—	
1968 30	17: 0:10.80	SIZ	—	11	37.223	116.498	0.4	A	94	3.20	0.70	HSF	—		—		—		2.2	HSF	—		—	
1968 30	19:30:31.50	SIZ	—	11	37.227	116.510	0.5	A	86	4.40	0.60	HSF	—		—		—		2.7	HSF	—		—	
1968 30	20: 2: 7.00	SIZ	—	11	37.223	116.505	0.4	A	94	3.50	0.60	HSF	—		—		—		2.2	HSF	—		—	
1968 31	2: 4: 8.90	SIZ	—	10	37.228	116.505	0.5	A	89	3.70	0.70	HSF	—		—		—		2.4	HSF	—		—	
1968 31	3:28:13.10	SIZ	—	10	37.235	116.498	0.4	A	86	3.50	0.70	HSF	—		—		—		2.3	HSF	—		—	
1968 31	7: 2: 7.90	SIZ	—	10	37.232	116.507	0.5	A	82	3.20	0.80	HSF	—		—		—		2.0	HSF	—		—	
1968 31	8:43:30.10	SIZ	—	10	37.212	116.507	0.4	A	99	4.60	0.50	HSF	—		—		—		1.9	HSF	—		—	
1968 31	9:30:53.80	SIZ	—	10	37.225	116.490	0.3	A	93	3.00	0.60	HSF	—		—		—		2.2	HSF	—		—	
1968 31	10:32: 4.90	SIZ	—	10	37.250	116.508	0.5	A	88	4.50	0.50	HSF	—		—		—		2.5	HSF	—		—	
1968 31	10:58:52.90	SIZ	—	10	37.260	116.497	0.5	A	103	4.30	0.60	HSF	—		—		—		2.0	HSF	—		—	
1968 31	12:25:40.10	SIZ	—	10	37.240	116.507	0.5	A	79	3.30	0.70	HSF	—		—		—		2.0	HSF	—		—	
1968 31	12:27:49.40	SIZ	—	10	37.227	116.507	0.5	A	90	4.50	0.60	HSF	—		—		—		2.0	HSF	—		—	
1968 31	12:43:39.40	SIZ	—	10	37.243	116.503	0.5	A	79	3.20	0.80	HSF	—		—		—		2.0	HSF	—		—	
1968 31	13:52:17.80	SIZ	—	11	37.242	116.508	0.6	A	81	4.60	0.70	HSF	—		—		—		2.0	HSF	—		—	
1968 31	13:53:26.40	SIZ	—	11	37.210	116.508	0.4	A	100	4.60	0.40	HSF	—		—		—		2.1	HSF	—		—	
1968 31	14: 1:11.70	SIZ	—	10	37.243	116.505	0.5	A	79	3.50	0.70	HSF	—		—		—		1.9	HSF	—		—	
1968 31	16:29:18.10	SIZ	—	21	37.247	116.502	0.2	A	45	3.90	0.30	HSF	—		—		—		3.3	HSF	—		—	
1968 31	16:34:46.10	SIZ	—	22	37.247	116.498	0.2	A	43	3.80	0.20	HSF	—		—		—		3.1	HSF	—		—	
1968 31	18:12:51.90	SIZ	—	10	37.235	116.500	0.4	A	83	3.20	0.70	HSF	—		—		—		2.2	HSF	—		—	
1968 31	21:26:22.60	SIZ	—	25	37.277	116.483	0.2	A	56	2.10	0.20	HSF	—		—		—		3.0	HSF	—		—	
1968 31	22:14:41.50	SIZ	—	10	37.192	116.495	0.8	B	110	2.00	1.30	HSF	—		—		—		2.2	HSF	—		—	
1968 31	23:59:46.50	SIZ	—	11	37.190	116.512	0.3	A	110	2.40	0.50	HSF	—		—		—		2.4	HSF	—		—	
1969 JAN 1	3:48:32.10	SIZ	—	11	37.270	116.485	0.3	B	130	1.50	0.30	HSF	—		—		—		2.1	HSF	—		—	
1969 1	4:51:56.10	SIZ	—	11	37.258	116.537	1.1	B	146	9.10	1.90	HSF	—		—		—		1.8	HSF	—		—	
1969 1	4:52: 7.30	SIZ	—	10	37.252	116.500	0.4	A	114	4.60	0.50	HSF	—		—		—		2.7	HSF	—		—	
1969 1	5:11:47.40	SIZ	—	11	37.220	116.547	0.4	A	100	3.70	0.50	HSF	—		—		—		2.3	HSF	—		—	
1969 1	5:43:27.00	SIZ	—	11	37.212	116.552	0.4	A	117	4.30	0.40	HSF	—		—		—		2.5	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 JAN 1	5:57:28.80	SIZ	—	11	37.247	116.500	0.4	A	81	3.50	0.50	HSF	—		—		—		2.5	HSF	—		—	
1969 1	6:30: 7.60	SIZ	—	11	37.188	116.515	0.3	A	110	2.30	0.50	HSF	—		—		—		2.3	HSF	—		—	
1969 1	8:31:51.80	SIZ	—	11	37.248	116.498	0.4	A	83	3.60	0.60	HSF	—		—		—		2.2	HSF	—		—	
1969 1	9: 0:28.10	SIZ	—	11	37.213	116.567	1.2	C	146	0.30	1.10	HSF	—		—		—		2.0	HSF	—		—	
1969 1	9:44:15.10	SIZ	—	11	37.227	116.470	0.1	A	88	1.50	0.10	HSF	—		—		—		2.0	HSF	—		—	
1969 1	10: 5: 5.20	SIZ	—	11	37.213	116.508	0.4	A	98	4.50	0.50	HSF	—		—		—		2.1	HSF	—		—	
1969 1	13:46:17.80	SIZ	—	10	37.228	116.510	0.5	A	84	4.70	0.50	HSF	—		—		—		1.8	HSF	—		—	
1969 1	14:35: 0.00	SIZ	—	10	37.202	116.487	0.3	A	103	2.30	1.70	HSF	—		—		—		2.0	HSF	—		—	
1969 1	15:17:24.90	SIZ	—	9	37.252	116.503	0.5	A	87	4.30	0.60	HSF	—		—		—		1.7	HSF	—		—	
1969 1	16:11:27.50	SIZ	—	10	37.242	116.512	0.4	A	86	4.60	0.50	HSF	—		—		—		1.9	HSF	—		—	
1969 1	17:23:23.50	SIZ	—	10	37.253	116.495	0.4	B	92	3.40	0.80	HSF	—		—		—		2.5	HSF	—		—	
1969 1	20:12:40.90	SIZ	—	10	37.210	116.512	0.4	A	99	5.40	0.90	HSF	—		—		—		1.8	HSF	—		—	
1969 1	20:43:28.00	SIZ	—	10	37.190	116.512	0.4	A	109	2.50	0.70	HSF	—		—		—		1.9	HSF	—		—	
1969 1	20:43:58.00	SIZ	—	10	37.240	116.512	0.4	A	83	4.70	0.50	HSF	—		—		—		2.4	HSF	—		—	
1969 1	21: 8:48.80	SIZ	—	10	37.232	116.510	0.4	A	79	4.40	0.50	HSF	—		—		—		1.7	HSF	—		—	
1969 1	21:59:10.80	SIZ	—	10	37.265	116.472	0.4	A	118	4.00	0.50	HSF	—		—		—		1.9	HSF	—		—	
1969 1	23:33:39.10	SIZ	—	10	37.232	116.462	0.2	B	83	2.70	0.30	HSF	—		—		—		2.0	HSF	—		—	
1969 2	0:10: 6.30	SIZ	—	10	37.217	116.512	0.5	A	97	4.90	0.50	HSF	—		—		—		2.2	HSF	—		—	
1969 2	1:26:20.10	SIZ	—	10	37.252	116.503	0.3	B	85	4.40	0.40	HSF	—		—		—		2.0	HSF	—		—	
1969 2	1:52:39.40	SIZ	—	10	37.243	116.507	0.4	A	82	4.50	0.50	HSF	—		—		—		2.1	HSF	—		—	
1969 2	1:58:11.40	SIZ	—	10	37.188	116.512	0.3	A	111	2.50	0.50	HSF	—		—		—		2.4	HSF	—		—	
1969 2	3: 4:53.20	SIZ	—	9	37.210	116.552	0.7	A	119	3.80	0.60	HSF	—		—		—		1.9	HSF	—		—	
1969 2	3:26:36.90	SIZ	—	9	37.253	116.493	0.5	B	92	2.80	1.10	HSF	—		—		—		1.8	HSF	—		—	
1969 2	3:33:21.20	SIZ	—	10	37.250	116.505	0.5	A	85	4.60	0.60	HSF	—		—		—		1.9	HSF	—		—	
1969 2	6: 8:23.40	SIZ	—	10	37.247	116.495	0.4	A	83	3.10	0.80	HSF	—		—		—		2.1	HSF	—		—	
1969 2	6:58:23.00	SIZ	—	10	37.252	116.505	0.5	B	86	4.60	0.60	HSF	—		—		—		2.4	HSF	—		—	
1969 2	8:13:47.40	SIZ	—	10	37.250	116.495	0.4	B	88	2.90	0.80	HSF	—		—		—		2.1	HSF	—		—	
1969 2	8:31:26.60	SIZ	—	10	37.233	116.513	0.4	A	75	4.50	0.50	HSF	—		—		—		2.2	HSF	—		—	
1969 2	11:35: 4.60	SIZ	—	9	37.230	116.510	0.5	A	81	4.70	0.60	HSF	—		—		—		1.8	HSF	—		—	
1969 2	13: 2:18.40	SIZ	—	20	37.190	116.510	0.2	A	55	3.90	0.30	HSF	—		—		—		2.9	HSF	—		—	
1969 2	13: 4:12.00	SIZ	—	19	37.190	116.512	0.3	A	55	4.20	0.30	HSF	—		—		—		2.9	HSF	—		—	
1969 2	13:19: 1.00	SIZ	—	9	37.180	116.508	0.4	A	114	2.90	0.70	HSF	—		—		—		2.0	HSF	—		—	
1969 2	14:54:21.50	SIZ	—	10	37.188	116.510	0.4	A	110	3.60	0.60	HSF	—		—		—		2.0	HSF	—		—	
1969 2	15: 3:27.30	SIZ	—	9	37.240	116.488	0.4	A	84	2.80	0.90	HSF	—		—		—		1.9	HSF	—		—	
1969 2	15: 9:44.30	SIZ	—	10	37.187	116.510	0.5	A	111	4.00	0.60	HSF	—		—		—		2.2	HSF	—		—	
1969 2	15:10:46.20	SIZ	—	10	37.185	116.505	0.5	A	111	4.00	0.70	HSF	—		—		—		2.5	HSF	—		—	
1969 2	15:42:35.30	SIZ	—	10	37.183	116.512	0.4	A	113	3.80	0.50	HSF	—		—		—		1.9	HSF	—		—	
1969 2	19: 8:34.50	SIZ	—	9	37.183	116.500	0.2	A	113	2.00	0.30	HSF	—		—		—		2.3	HSF	—		—	
1969 2	19:16:24.30	SIZ	—	9	37.200	116.498	0.3	A	105	2.80	0.60	HSF	—		—		—		2.0	HSF	—		—	
1969 2	22:27:39.90	SIZ	—	10	37.240	116.507	1.1	B	78	3.20	1.90	HSF	—		—		—		2.0	HSF	—		—	
1969 2	23: 3:53.70	SIZ	—	10	37.218	116.513	0.6	A	97	4.50	0.60	HSF	—		—		—		1.9	HSF	—		—	
1969 2	23:10:51.00	SIZ	—	11	37.258	116.470	0.3	A	104	2.90	0.50	HSF	—		—		—		2.4	HSF	—		—	
1969 3	9:19:24.70	SIZ	—	11	37.272	116.483	0.3	B	134	2.10	0.40	HSF	—		—		—		2.4	HSF	—		—	
1969 3	9:23:10.60	SIZ	—	10	37.195	116.498	0.3	A	107	3.00	0.60	HSF	—		—		—		2.4	HSF	—		—	
1969 3	12:59:23.90	SIZ	—	11	37.228	116.460	0.3	A	84	0.20	0.50	HSF	—		—		—		1.9	HSF	—		—	
1969 4	4:32:53.70	SIZ	—	9	37.205	116.505	0.3	B	102	0.00	1.80	HSF	—		—		—		2.3	HSF	—		—	
1969 4	14:10:10.30	SIZ	—	20	37.230	116.510	0.4	B	71	4.40	0.40	HSF	—		—		—		2.7	HSF	—		—	
1969 5	1:38:11.50	SIZ	—	10	37.280	116.465	0.5	B	160	2.20	0.40	HSF	—		—		—		2.7	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 JAN 5	1:49:19.90	SIZ	—	10	37.238	116.507	0.4	B	87	2.00	3.00	HSF	—		—		—		2.7	HSF	—		—	
1969 5	5:24:21.10	SIZ	—	9	37.215	116.507	0.4	B	98	2.60	1.00	HSF	—		—		—		2.2	HSF	—		—	
1969 6	6:34:14.80	SIZ	—	17	37.245	116.508	0.3	B	84	4.20	0.30	HSF	—		—		4.5	PDX	3.7	HSF	4.6	PDX	4.6	GDY
1969 6	6:36: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.1	HSF	—		—	
1969 6	8: 3:10.40	SIZ	—	9	37.218	116.503	0.4	B	96	2.50	1.10	HSF	—		—		—		2.7	HSF	—		—	
1969 6	9:41:28.60	SIZ	—	9	37.187	116.478	0.2	B	111	2.80	0.40	HSF	—		—		—		2.1	HSF	—		—	
1969 6	15:57:17.20	SIZ	—	8	37.170	116.538	0.5	C	119	0.60*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 6	20:59:59.00	SIZ	—	10	37.245	116.517	0.6	B	134	4.80	0.50	HSF	—		—		—		2.7	HSF	—		—	
1969 7	0:48: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1969 7	11:15:16.60	SIZ	—	10	37.247	116.515	0.5	B	132	4.60	0.50	HSF	—		—		—		2.7	HSF	—		—	
1969 7	12: 1: 7.70	SIZ	—	11	37.213	116.563	1.1	B	140	7.60	2.00	HSF	—		—		—		2.4	HSF	—		—	
1969 7	12: 7:51.30	SIZ	—	11	37.197	116.550	0.9	B	121	4.20	0.90	HSF	—		—		—		2.3	HSF	—		—	
1969 7	13:50:48.10	SIZ	—	11	37.247	116.507	0.5	A	85	4.40	0.50	HSF	—		—		—		1.6	HSF	—		—	
1969 8	11:46:52.20	SIZ	—	17	37.275	116.490	0.3	A	99	3.10	0.30	HSF	—		—		—		3.2	HSF	3.9	PDX	3.9	GDY
1969 8	13: 3:40.00	SIZ	—	11	37.203	116.493	0.3	A	103	2.90	0.90	HSF	—		—		—		2.3	HSF	—		—	
1969 8	20:44:56.80	SIZ	—	7	37.220	116.515	0.5	D	226	0.00*	—	HSF	—		—		—		3.3	HSF	4.0	PDX	4.0	GDY
1969 8	21: 6:20.80	SIZ	—	7	37.215	116.513	0.6	C	225	0.60*	—	HSF	—		—		—		3.4	HSF	3.9	PDX	—	
1969 8	23:49:12.80	SIZ	—	19	37.215	116.508	0.3	A	98	4.50	0.30	HSF	5	BRP	4.0	BRP	—		3.4	HSF	4.1	PDX	4.1	GDY
1969 9	0: 5: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1969 9	0:13:18.10	SIZ	—	16	37.220	116.510	0.3	A	96	4.30	0.40	HSF	—		—		—		3.3	HSF	4.1	PDX	4.1	GDY
1969 9	0:15:14.20	SIZ	—	15	37.223	116.510	0.4	B	94	4.40	0.50	HSF	—		—		—		3.3	HSF	—		—	
1969 9	1:47: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1969 9	3: 8:58.10	SIZ	—	19	37.212	116.510	0.3	A	98	4.70	0.20	HSF	—		—		—		3.0	HSF	—		—	
1969 9	3:16: 0.80	SIZ	—	15	37.210	116.510	0.3	A	100	4.80	0.30	HSF	—		—		—		3.3	HSF	4.1	PDX	4.1	GDY
1969 9	3:19: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1969 9	5:52:28.90	SIZ	—	17	37.277	116.485	0.3	B	146	2.00	0.20	HSF	—		—		—		3.3	HSF	—		—	
1969 9	6:22:35.90	SIZ	—	19	37.223	116.510	0.3	A	89	4.60	0.30	HSF	—		—		—		3.3	HSF	3.9	PDX	—	
1969 9	7:46:32.30	SIZ	—	18	37.203	116.510	0.3	A	104	4.40	0.30	HSF	—		—		—		3.2	HSF	—		—	
1969 9	10:13:57.90	SIZ	—	13	37.197	116.513	0.3	A	106	5.60	0.80	HSF	—		—		—		3.4	HSF	4.2	PDX	4.2	GDY
1969 9	11: 8:53.40	SIZ	—	11	37.178	116.510	0.4	A	115	3.40	0.70	HSF	—		—		—		2.5	HSF	—		—	
1969 9	11:15:47.30	SIZ	—	11	37.188	116.513	1.2	B	110	10.30	3.30	HSF	—		—		—		2.2	HSF	—		—	
1969 9	11:19: 0.80	SIZ	—	11	37.177	116.510	0.5	A	116	3.70	0.80	HSF	—		—		—		1.8	HSF	—		—	
1969 9	12:41:16.40	SIZ	—	11	37.193	116.515	0.4	A	108	5.50	0.90	HSF	—		—		—		2.0	HSF	—		—	
1969 9	12:57:59.60	SIZ	—	13	37.210	116.515	0.3	A	99	5.30	0.80	HSF	—		—		—		2.8	HSF	—		—	
1969 9	13:16:24.60	SIZ	—	11	37.188	116.510	0.6	A	110	3.80	1.00	HSF	—		—		—		2.1	HSF	—		—	
1969 9	14:12:24.20	SIZ	—	11	37.222	116.537	1.2	B	84	5.30	1.20	HSF	—		—		—		2.4	HSF	—		—	
1969 9	18:39:29.40	SIZ	—	11	37.202	116.515	0.4	A	104	5.40	0.90	HSF	—		—		—		2.8	HSF	—		—	
1969 9	18:48:22.50	SIZ	—	11	37.200	116.513	0.4	A	104	4.80	0.50	HSF	—		—		—		2.0	HSF	—		—	
1969 9	20:16:48.80	SIZ	—	11	37.208	116.520	0.5	A	101	5.60	1.20	HSF	—		—		—		2.2	HSF	—		—	
1969 9	21:13:10.40	SIZ	—	10	37.188	116.515	0.4	A	110	5.40	1.20	HSF	—		—		—		2.2	HSF	—		—	
1969 10	8: 8:41.00	SIZ	—	19	37.180	116.513	0.2	A	115	2.10	0.50	HSF	—		—		—		3.0	HSF	—		—	
1969 10	9: 5: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1969 10	9:41:23.45	SIZ	—	—	37.134	116.482	—		—	8.00*	—	GDY	—		—		4.6	PDX	3.8	HSF	4.4	PDX	4.4	GDY
1969 10	9:59: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1969 10	10:52: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.2	HSF	—		—	
1969 10	10:54: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.2	HSF	—		—	
1969 10	11:47: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.1	HSF	—		—	
1969 10	12: 3: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 JAN 10	12: 8: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.2	HSF	—		—	
1969 10	12:21:34.10	SIZ	—	15	37.178	116.513	0.3	A	116	1.60	0.60	HSF	—		—		—		3.0	HSF	—		—	
1969 10	15:20:43.80	SIZ	—	10	37.170	116.513	0.5	A	120	3.50	0.80	HSF	—		—		—		2.7	HSF	—		—	
1969 10	15:33:59.00	SIZ	—	10	37.177	116.515	0.3	A	116	2.00	0.50	HSF	—		—		—		2.8	HSF	—		—	
1969 10	15:39:56.00	SIZ	—	15	37.173	116.513	0.2	A	118	2.30	0.40	HSF	—		—		—		2.8	HSF	—		—	
1969 10	17: 1:47.69	SIZ	—	—	37.100	116.291	—		—	8.00*	—	GDY	—		—		—		3.4	HSF	4.4	PDX	4.4	GDY
1969 10	17: 3: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.1	HSF	—		—	
1969 10	17: 7: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1969 10	17:14:17.30	SIZ	—	18	37.185	116.512	0.3	A	113	3.00	0.40	HSF	—		—		—		3.4	HSF	4.3	PDX	4.3	GDY
1969 10	17:23: 5.10	SIZ	—	10	37.165	116.548	0.7	B	137	6.50	2.60	HSF	—		—		—		2.8	HSF	—		—	
1969 10	17:27:44.30	SIZ	—	7	37.170	116.518	0.9	D	241	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 10	17:28:35.20	SIZ	—	17	37.195	116.510	0.3	A	107	3.70	0.40	HSF	—		—		—		3.0	HSF	—		—	
1969 11	1:28: 0.00	SIZ	—	—	37.200	116.500	—		—	0.00*	—	HSF*	—		—		—		3.2	HSF	—		—	
1969 11	9:52:29.20	SIZ	—	18	37.177	116.512	0.3	A	117	3.70	0.40	HSF	—		—		—		2.5	HSF	—		—	
1969 11	11: 7: 6.00	SIZ	—	11	37.170	116.508	0.2	A	120	1.60	0.40	HSF	—		—		—		2.4	HSF	—		—	
1969 11	17:39:45.10	SIZ	—	10	37.163	116.512	0.2	B	125	2.10	2.60	HSF	—		—		—		1.9	HSF	—		—	
1969 11	18:18:26.90	SIZ	—	11	37.165	116.517	0.3	B	124	1.70	0.50	HSF	—		—		—		2.1	HSF	—		—	
1969 11	22:28:36.30	SIZ	—	11	37.147	116.512	0.3	B	135	0.60	2.60	HSF	—		—		—		2.4	HSF	—		—	
1969 12	20:25:46.50	SIZ	—	10	37.242	116.515	0.6	B	132	4.30	0.60	HSF	—		—		—		2.3	HSF	—		—	
1969 12	22:44:48.40	SIZ	—	10	37.253	116.503	0.6	A	118	4.50	0.60	HSF	—		—		—		2.5	HSF	—		—	
1969 13	1:23:28.00	SIZ	—	20	37.188	116.495	0.2	A	110	2.30	0.30	HSF	—		—		—		2.7	HSF	—		—	
1969 13	2:30: 6.50	SIZ	—	20	37.177	116.513	0.2	A	116	1.90	0.30	HSF	—		—		—		3.2	HSF	—		—	
1969 13	2:45:10.40	SIZ	—	19	37.177	116.512	0.2	A	117	1.40	0.50	HSF	—		—		—		2.9	HSF	—		—	
1969 13	2:47:38.80	SIZ	—	20	37.175	116.513	0.2	A	117	1.60	0.40	HSF	—		—		—		2.8	HSF	—		—	
1969 13	3:13: 5.20	SIZ	—	9	37.155	116.513	0.4	B	130	2.70	0.90	HSF	—		—		—		1.9	HSF	—		—	
1969 13	4:43:35.50	SIZ	—	10	37.183	116.513	0.3	A	112	1.90	0.40	HSF	—		—		—		2.6	HSF	—		—	
1969 13	15:54:13.80	SIZ	—	10	37.247	116.492	0.4	A	108	2.70	0.80	HSF	—		—		—		2.6	HSF	—		—	
1969 14	8:35:20.80	SIZ	—	8	37.175	116.505	0.3	A	117	1.70	0.60	HSF	—		—		—		2.0	HSF	—		—	
1969 14	20:31:36.10	SIZ	—	10	37.158	116.515	0.3	B	128	2.10	0.50	HSF	—		—		—		2.0	HSF	—		—	
1969 15	1:24:42.40	SIZ	—	18	37.177	116.508	0.2	A	116	1.70	0.40	HSF	—		—		—		2.8	HSF	—		—	
1969 15	10:43: 4.10	SIZ	—	10	37.262	116.490	1.3	B	109	4.80	1.30	HSF	—		—		—		2.4	HSF	—		—	
1969 15	19:14:18.30	SIZ	—	9	37.185	116.498	0.4	C	191	2.20	2.10	HSF	—		—		—		3.0	HSF	—		—	
1969 15	20:13:41.00	CSNL	—	7	37.600	116.200	—		—	3.00*	—	ISC	—		—		—		—		—		3.5	ISC
1969 15	21: 7:44.30	SIZ	—	6	37.200	116.563	3.2	D	259	2.60	2.40	HSF	—		—		—		2.5	HSF	—		—	
1969 16	9:18: 6.00	SIZ	—	—	37.200	116.200	—		—	0.00*	—	HSF*	—		—		—		3.1	HSF	—		—	
1969 16	9:25:45.50	SIZ	—	8	37.160	116.512	0.4	B	127	2.40	1.10	HSF	—		—		—		2.8	HSF	—		—	
1969 17	12:15:59.50	SIZ	—	9	37.172	116.512	0.5	A	119	4.20	0.60	HSF	—		—		—		2.0	HSF	—		—	
1969 17	18: 1:22.90	SIZ	—	8	37.212	116.553	0.7	B	157	4.30	0.60	HSF	—		—		—		2.7	HSF	—		—	
1969 18	0:17:13.50	SIZ	—	6	37.208	116.498	2.0	D	267	0.60*	—	HSF	—		—		—		2.5	HSF	—		—	
1969 18	3:39:14.30	SIZ	—	7	37.235	116.490	0.6	B	197	3.10	0.90	HSF	—		—		—		2.4	HSF	—		—	
1969 18	3:40: 3.80	SIZ	—	7	37.240	116.482	1.2	C	185	3.70	1.60	HSF	—		—		—		2.5	HSF	—		—	
1969 18	3:54:56.60	SIZ	—	7	37.205	116.553	1.4	D	253	0.60*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 18	4: 0:33.00	SIZ	—	6	37.180	116.497	1.4	D	228	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 18	5: 9: 5.10	SIZ	—	7	37.230	116.512	1.0	B	220	3.30	1.10	HSF	—		—		—		2.4	HSF	—		—	
1969 18	6: 3:12.50	SIZ	—	6	37.162	116.483	1.0	D	260	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 18	7:35:16.40	SIZ	—	6	37.213	116.495	0.9	C	214	0.60*	—	HSF	—		—		—		1.5	HSF	—		—	
1969 18	8:22:30.90	SIZ	—	5	37.163	116.533	1.4	D	251	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 18	10:46:27.30	SIZ	—	6	37.163	116.525	0.9	D	247	0.60*	—	HSF	—		—		—		1.2	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 JAN 18	14:26:21.70	SIZ	—	7	37.170	116.510	0.9	D	238	0.60*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 18	14:48:29.90	SIZ	—	6	37.233	116.527	2.0	C	231	3.10	1.90	HSF	—		—		—		1.4	HSF	—		—	
1969 18	15:29:29.70	SIZ	—	7	37.232	116.510	0.9	B	217	2.80	1.30	HSF	—		—		—		2.3	HSF	—		—	
1969 18	16:26:56.70	SIZ	—	6	37.212	116.505	1.1	C	221	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 18	17:49: 2.30	SIZ	—	6	37.182	116.467	0.9	C	210	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 19	4:15:35.80	SIZ	—	6	37.280	116.492	0.5	B	148	3.20	0.70	HSF	—		—		—		2.1	HSF	—		—	
1969 19	5:57:12.80	SIZ	—	6	37.262	116.493	1.3	C	179	4.90	1.40	HSF	—		—		—		1.5	HSF	—		—	
1969 19	7: 2:31.30	SIZ	—	6	37.200	116.583	1.9	D	269	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 19	7: 7: 2.50		—	6	37.198	116.577	1.7	D	266	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 19	8: 7:52.90		—	6	37.198	116.567	1.6	D	261	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 19	9:23:25.20	SIZ	—	6	37.168	116.515	1.0	D	241	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 19	13:12:47.90	SIZ	—	6	37.200	116.562	1.6	D	259	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 19	13:39:44.20	SIZ	—	6	37.200	116.553	1.2	D	255	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 19	13:51:11.00	SIZ	—	7	37.200	116.555	1.2	D	255	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 19	14:35:27.70		—	6	37.195	116.575	1.7	D	265	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 19	17:15:25.50		—	6	37.198	116.555	1.3	D	255	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 19	19:18:15.90		—	6	37.193	116.585	1.3	D	270	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 19	19:33: 9.00		—	6	37.198	116.558	1.3	D	258	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 19	19:49:33.80		—	6	37.198	116.568	1.8	D	261	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 19	20: 3:18.50	SIZ	—	6	37.215	116.520	1.2	D	230	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 19	23:33:22.50		—	6	37.198	116.560	1.8	D	258	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 20	2:59:59.50		—	6	37.197	116.568	1.7	D	262	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 20	3:43:46.70		—	6	37.197	116.572	2.1	D	264	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 20	3:46: 7.40		—	6	37.195	116.565	1.5	D	260	0.60*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 20	3:49: 7.40		—	5	37.193	116.567	1.6	D	261	0.60*	—	HSF	—		—		—		1.5	HSF	—		—	
1969 20	5:52:33.30	SIZ	—	6	37.225	116.522	1.2	D	229	0.60*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 20	10:29:22.80	SIZ	—	6	37.190	116.540	2.2	D	247	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 20	13:23:23.40	SIZ	—	6	37.265	116.492	0.7	B	174	3.30	1.00	HSF	—		—		—		2.7	HSF	—		—	
1969 20	14:29: 0.00	SIZ	—	—	37.200	116.200	—		—	0.00*	—	HSF*	—		—		—		3.2	HSF	—		—	
1969 20	14:30:54.90	SIZ	—	6	37.175	116.505	1.0	D	233	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 20	15:44: 7.10	SIZ	—	5	37.197	116.543	3.0	D	286	0.60*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 20	16:49:36.40		—	6	37.193	116.577	1.4	D	266	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 20	17: 9:24.00	SIZ	—	6	37.262	116.507	0.7	B	195	4.60	0.70	HSF	—		—		—		2.5	HSF	—		—	
1969 21	1:54:13.60		—	5	37.195	116.573	2.3	D	265	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 21	7: 0:25.20	SIZ	—	5	37.195	116.490	0.7	D	218	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 21	8:24:41.60	SIZ	—	5	37.245	116.508	0.5	D	208	3.00*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 21	23:51:38.60	SIZ	—	5	37.222	116.523	0.9	D	230	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 22	1:51:58.80	SIZ	—	5	37.247	116.518	—	D	220	4.00	—	HSF	—		—		—		2.4	HSF	—		—	
1969 22	3: 4:33.30	SIZ	—	5	37.188	116.535	1.1	D	245	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 22	7:47:33.70	SIZ	—	5	37.200	116.522	0.5	D	235	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 22	8:15:21.00	SIZ	—	5	37.198	116.493	0.8	D	218	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 22	12:15: 4.10	SIZ	—	5	37.230	116.540	—	D	243	1.80	—	HSF	—		—		—		1.8	HSF	—		—	
1969 22	12:40:50.00	SIZ	—	5	37.162	116.533	1.2	D	251	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 22	13:24:31.30	SIZ	—	5	37.227	116.525	—	D	231	0.30	—	HSF	—		—		—		1.2	HSF	—		—	
1969 22	15: 0: 2.60	SIZ	—	—	37.000	116.000	—	A	—	20.00*	—	BRP	5	BRP	4.0	BRP	—		—		4.6	PDX	—	
1969 22	15:45:27.50	CSNL	—	—	37.000	116.000	—	A	—	33.00*	—	BRP	—		—		—		—		—		—	
1969 23	0: 0:21.20	SIZ	—	7	37.230	116.513	1.0	B	221	2.90	1.30	HSF	—		—		—		2.2	HSF	—		—	
1969 23	2:28:14.20	SIZ	—	7	37.195	116.478	0.7	C	212	0.60*	—	HSF	—		—		—		1.7	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE	ORIGIN TIME	HYPOCENTER											INTENSITY		MAGNITUDE									
(UTC)	HR MN SEC	FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	I	REF	MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 JAN 23	3:12: 2.40	SIZ	—	7	37.230	116.517	0.9	B	223	2.90	1.10	HSF	—		—		—		2.5	HSF	—		—	
1969 23	3:36:55.50	SIZ	—	7	37.185	116.512	0.7	D	233	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 23	6:24:48.90	SIZ	—	6	37.200	116.530	0.7	D	240	0.60*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 23	7:28:39.30	SIZ	—	5	37.230	116.498	—	D	207	3.40	—	HSF	—		—		—		1.9	HSF	—		—	
1969 23	12:14:11.60	SIZ	—	6	37.220	116.523	1.3	D	231	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 23	15: 8:35.10	SIZ	—	5	37.265	116.503	—	D	188	6.80	—	HSF	—		—		—		1.5	HSF	—		—	
1969 23	15:13:47.70	SIZ	—	7	37.203	116.553	1.2	D	254	0.60*	—	HSF	—		—		—		2.5	HSF	—		—	
1969 23	16:33:29.70	SIZ	—	6	37.195	116.485	0.8	C	215	0.60*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 23	17:15:51.90	SIZ	—	7	37.202	116.553	1.1	D	253	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 23	17:37:19.60	SIZ	—	7	37.202	116.545	1.1	D	249	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 23	18:25:57.90	SIZ	—	5	37.203	116.552	1.9	D	252	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 24	0:36:46.20	SIZ	—	5	37.262	116.470	—	D	157	3.40	—	HSF	—		—		—		1.7	HSF	—		—	
1969 24	1: 0:46.60	SIZ	—	6	37.217	116.477	0.8	D	251	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 24	1:54:46.00	SIZ	—	7	37.232	116.513	1.1	C	221	2.70	1.40	HSF	—		—		—		1.9	HSF	—		—	
1969 24	5:10:58.70	SIZ	—	6	37.230	116.517	1.4	C	223	3.20	1.50	HSF	—		—		—		1.4	HSF	—		—	
1969 24	6:31:16.80	SIZ	—	7	37.207	116.517	0.7	D	230	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 24	7:26: 5.00	SIZ	—	6	37.202	116.518	0.9	D	233	0.60*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 24	9:56:47.30	SIZ	—	6	37.243	116.528	1.1	C	231	4.80	1.00	HSF	—		—		—		1.3	HSF	—		—	
1969 24	11:45:21.50	SIZ	—	7	37.202	116.552	1.3	D	253	0.60*	—	HSF	—		—		—		2.9	HSF	—		—	
1969 24	12:40:31.30	SIZ	—	7	37.200	116.558	1.4	D	256	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 24	12:51:32.70	SIZ	—	7	37.192	116.513	0.9	D	232	0.60*	—	HSF	—		—		—		1.3	HSF	—		—	
1969 24	13:28:33.00	SIZ	—	7	37.207	116.548	1.4	D	251	0.60*	—	HSF	—		—		—		1.5	HSF	—		—	
1969 24	14:48:20.10	SIZ	—	5	37.238	116.532	—	D	236	4.50	—	HSF	—		—		—		1.5	HSF	—		—	
1969 24	14:52: 1.90	SIZ	—	6	37.203	116.548	1.6	D	250	0.60*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 24	17:27:49.80	SIZ	—	7	37.245	116.508	1.1	C	208	4.20	1.30	HSF	—		—		—		2.2	HSF	—		—	
1969 24	17:40:20.40		—	6	37.198	116.567	1.9	D	261	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 24	19:36:26.50	SIZ	—	6	37.200	116.573	1.8	D	264	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 24	21:47:51.10	SIZ	—	5	37.200	116.545	1.9	D	249	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 25	7:21:14.50	SIZ	—	7	37.205	116.548	1.4	D	251	0.60	—	HSF	—		—		—		2.0	HSF	—		—	
1969 25	7:35: 2.70	SIZ	—	7	37.203	116.548	1.2	D	250	0.60*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 25	10:23:34.40	SIZ	—	7	37.200	116.552	1.2	D	253	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 25	10:31: 8.40	SIZ	—	6	37.198	116.525	2.0	D	279	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 25	10:59: 7.00	SIZ	—	7	37.208	116.552	1.3	D	253	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 25	12:45:11.10	SIZ	—	6	37.203	116.515	1.0	D	230	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 25	17:18:49.80	SIZ	—	7	37.202	116.515	0.7	D	231	0.60*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 26	0:56: 5.70	SIZ	—	7	37.200	116.518	0.7	D	232	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 26	3: 9:42.40	SIZ	—	7	37.200	116.513	0.8	D	230	0.60*	—	HSF	—		—		—		2.5	HSF	—		—	
1969 26	5: 8:36.70	SIZ	—	7	37.153	116.510	1.0	D	244	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 27	3:20:32.00		—	6	37.198	116.572	1.7	D	264	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 27	6: 0:57.60	SIZ	—	7	37.190	116.527	0.8	D	241	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 27	7: 5:35.10	SIZ	—	7	37.213	116.557	1.7	D	255	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 27	7:14: 6.50	SIZ	—	7	37.212	116.552	1.6	D	253	0.60*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 27	11:26:51.30	SIZ	—	7	37.220	116.515	0.9	C	224	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 27	13: 2:20.70	SIZ	—	6	37.232	116.493	1.2	C	202	3.90	1.70	HSF	—		—		—		1.8	HSF	—		—	
1969 27	18:42:48.90	SIZ	—	5	37.215	116.525	0.5	D	233	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 28	6:15:48.90	SIZ	—	5	37.215	116.525	0.7	D	234	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 28	7:32:18.00	SIZ	—	6	37.248	116.505	1.0	C	203	3.10	1.30	HSF	—		—		—		1.9	HSF	—		—	
1969 28	7:59:47.20		—	6	37.102	116.578	2.8	D	280	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 JAN 28	9:26:31.30	SIZ	—	5	37.243	116.510	—	D	212	2.80	—	HSF	—		—		—		1.7	HSF	—		—	
1969 28	9:28:43.90	SIZ	—	6	37.197	116.522	1.3	D	236	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 28	14:10:17.80	SIZ	—	7	37.197	116.520	0.8	D	234	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 29	2:30:52.10	SIZ	—	7	37.197	116.492	0.4	C	218	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 29	4:38:52.60	SIZ	—	5	37.298	116.447	—	D	158	3.30	—	HSF	—		—		—		1.5	HSF	—		—	
1969 29	8: 2:17.10	SIZ	—	7	37.200	116.517	0.7	D	232	0.60*	—	HSF	—		—		—		2.5	HSF	—		—	
1969 29	12:52:37.10		—	6	37.228	116.647	4.2	D	299	0.60*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 29	13:32:48.34		—	—	37.354	116.706	—		—	8.00*	—	GOY	—		—		—		3.1	HSF	3.9	PDX	3.9	GOY
1969 29	19:24:50.40	SIZ	—	7	37.212	116.532	1.3	D	239	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 29	20:56:51.40	SIZ	—	6	37.242	116.488	1.1	C	190	1.60	5.10	HSF	—		—		—		1.9	HSF	—		—	
1969 29	22:31: 4.70	SIZ	—	7	37.200	116.555	1.3	D	255	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 29	23: 3: 7.70	SIZ	—	7	37.248	116.523	1.4	C	224	5.00	4.10	HSF	—		—		—		2.6	HSF	—		—	
1969 29	23:59:39.90	SIZ	—	7	37.255	116.502	0.7	B	193	2.50	1.00	HSF	—		—		—		2.4	HSF	—		—	
1969 30	0:40:46.50	SIZ	—	7	37.205	116.517	0.6	D	230	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 30	1: 3:54.50	SIZ	—	6	37.278	116.490	0.5	B	150	2.90	0.80	HSF	—		—		—		2.3	HSF	—		—	
1969 30	6:19:18.00	SIZ	—	7	37.258	116.517	1.3	C	211	6.30	3.20	HSF	—		—		—		2.0	HSF	—		—	
1969 30	6:20:10.60	SIZ	—	5	37.270	116.530	—	D	230	9.70	—	HSF	—		—		—		1.7	HSF	—		—	
1969 30	6:45:18.30	SIZ	—	7	37.207	116.513	0.7	D	228	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 30	8:45:36.90	SIZ	—	6	37.198	116.513	0.8	D	230	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 30	14:56:33.20	SIZ	—	7	37.245	116.510	0.9	C	210	3.00*	—	HSF	—		—		—		2.5	HSF	—		—	
1969 30	18:24:34.70	SIZ	—	7	37.200	116.520	0.9	D	234	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 30	18:58:35.00	SIZ	—	6	37.220	116.515	1.1	C	225	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 30	23:22:29.00	SIZ	—	7	37.218	116.517	0.7	D	227	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 30	23:38: 2.00	SIZ	—	6	37.258	116.502	1.2	C	192	3.40	1.60	HSF	—		—		—		2.1	HSF	—		—	
1969 31	2: 2:18.50	SIZ	—	7	37.200	116.518	1.2	D	232	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 31	3:58:45.20	SIZ	—	6	37.198	116.518	1.0	D	234	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 31	5:29: 5.30	SIZ	—	5	37.197	116.512	0.9	D	231	0.60*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 31	8: 1:18.50	SIZ	—	8	37.252	116.503	0.6	B	199	2.90	0.70	HSF	—		—		—		2.5	HSF	—		—	
1969 31	13:18:37.80	SIZ	—	6	37.247	116.497	0.8	B	195	2.70	1.30	HSF	—		—		—		1.6	HSF	—		—	
1969 31	15:34:40.10	SIZ	—	6	37.203	116.502	0.8	C	221	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 31	15:44:58.00	SIZ	—	6	37.202	116.550	1.4	D	252	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 31	15:52:50.10	SIZ	—	6	37.202	116.570	2.3	D	263	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 31	16: 8: 0.60	SIZ	—	6	37.202	116.552	1.7	D	253	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 31	16:21:43.10	SIZ	—	6	37.265	116.488	0.4	C	170	3.00*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 31	22:56:41.90	SIZ	—	7	37.193	116.507	0.9	D	229	0.60*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 FEB 1	2:18:50.50	SIZ	—	7	37.197	116.518	0.7	D	234	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 1	10: 5:31.70	SIZ	—	6	37.248	116.517	1.7	C	216	3.40	2.30	HSF	—		—		—		1.2	HSF	—		—	
1969 1	16:12: 2.00	SIZ	—	6	37.232	116.513	1.2	C	219	2.50	4.80	HSF	—		—		—		1.6	HSF	—		—	
1969 1	16:49: 4.70		—	7	37.162	116.570	1.5	D	266	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 1	22:32:37.90	SIZ	—	7	37.207	116.510	0.7	D	227	0.60*	—	HSF	—		—		—		2.6	HSF	—		—	
1969 1	23:31:16.40	SIZ	—	7	37.250	116.527	1.8	D	229	5.10	8.50	HSF	—		—		—		2.1	HSF	—		—	
1969 1	23:44:54.80	SIZ	—	5	37.238	116.488	—	D	193	6.20	—	HSF	—		—		—		2.0	HSF	—		—	
1969 2	2:11:56.80	SIZ	—	5	37.242	116.522	1.6	D	225	3.00*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 2	8:25:22.60	SIZ	—	6	37.275	116.488	0.6	B	155	3.00	0.80	HSF	—		—		—		3.5	HSF	—		—	
1969 2	8:27: 0.00	SIZ	—	—	37.200	116.200	—		—	0.00*	—	HSF*	—		—		—		3.2	HSF	—		—	
1969 2	8:48: 0.40	SIZ	—	5	37.275	116.490	—	D	157	2.90	—	HSF	—		—		—		1.6	HSF	—		—	
1969 2	10:28:58.70	SIZ	—	6	37.202	116.522	1.3	D	234	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 2	12:22:14.90	SIZ	—	6	37.250	116.512	1.0	C	209	4.60	1.10	HSF	—		—		—		2.3	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 FEB 2	12:59:38.50	SIZ	—	6	37.240	116.518	0.9	B	223	4.20	1.00	HSF	—		—		—		1.6	HSF	—		—	
1969 2	13:40:26.50	SIZ	—	7	37.270	116.488	0.4	C	163	3.00*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 2	18:30:25.40	SIZ	—	5	37.200	116.513	1.1	D	230	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 2	18:42: 6.60	SIZ	—	7	37.255	116.502	1.2	C	195	4.00	1.40	HSF	—		—		—		2.3	HSF	—		—	
1969 2	19:15:40.80	SIZ	—	7	37.243	116.528	1.6	C	230	6.20	5.00	HSF	—		—		—		2.9	HSF	—		—	
1969 2	19:21: 7.20	SIZ	—	5	37.267	116.492	—	D	172	3.20	—	HSF	—		—		—		2.1	HSF	—		—	
1969 2	21: 8: 0.90	SIZ	—	6	37.253	116.498	0.7	C	192	2.20	3.10	HSF	—		—		—		1.6	HSF	—		—	
1969 3	1:11:57.50	SIZ	—	6	37.252	116.485	1.6	C	179	5.40	5.70	HSF	—		—		—		2.4	HSF	—		—	
1969 3	15:41:54.70	SIZ	—	7	37.198	116.517	0.7	D	232	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 4	1:32:40.90	SIZ	—	5	37.202	116.538	1.1	D	245	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 4	5:59:53.20	SIZ	—	6	37.233	116.533	1.2	C	237	4.40	1.30	HSF	—		—		—		1.2	HSF	—		—	
1969 4	6: 0: 4.60	SIZ	—	6	37.235	116.527	1.2	C	231	4.30	1.30	HSF	—		—		—		1.3	HSF	—		—	
1969 4	8: 3:47.40	SIZ	—	5	37.233	116.528	—	D	233	2.50	—	HSF	—		—		—		1.6	HSF	—		—	
1969 4	9:31: 8.40	SIZ	—	5	37.198	116.522	1.9	D	235	0.60*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 4	12: 3:56.80	SIZ	—	7	37.232	116.515	1.2	C	222	2.80	1.50	HSF	—		—		—		1.8	HSF	—		—	
1969 4	15: 0: 1.18	SIZ	—	—	37.023	115.955	—		—	8.00*	—	GDY	—		—		—		—		—		3.7	GDY
1969 4	21:17: 5.80	SIZ	—	5	37.273	116.492	—	D	162	3.40	—	HSF	—		—		—		2.4	HSF	—		—	
1969 6	9:13:10.20	SIZ	—	5	37.257	116.510	—	D	202	4.30	—	HSF	—		—		—		1.6	HSF	—		—	
1969 6	9:52:51.60	SIZ	—	6	37.245	116.515	1.0	C	217	3.00*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 7	17: 7: 7.70	SIZ	—	6	37.227	116.470	0.5	B	186	2.60	0.70	HSF	—		—		—		2.3	HSF	—		—	
1969 8	3:18: 6.40	SIZ	—	7	37.207	116.515	0.7	D	229	0.60*	—	HSF	—		—		—		2.5	HSF	—		—	
1969 8	4: 7:56.00	SIZ	—	7	37.207	116.512	0.8	D	227	0.60*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 8	4:38: 1.60	SIZ	—	6	37.200	116.527	0.6	D	238	0.60*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 8	5:48:30.40	SIZ	—	7	37.207	116.513	0.8	D	228	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 8	6:36:40.60	SIZ	—	6	37.200	116.518	1.2	D	234	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 8	10:52:43.40	SIZ	—	6	37.203	116.577	1.9	D	266	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 8	10:56:48.60	SIZ	—	6	37.245	116.523	1.4	C	225	4.20	1.50	HSF	—		—		—		1.7	HSF	—		—	
1969 8	12:32:24.00	SIZ	—	7	37.207	116.512	0.9	D	227	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 8	16:59:38.10	SIZ	—	6	37.207	116.513	1.4	D	228	0.60*	—	HSF	—		—		—		1.5	HSF	—		—	
1969 8	19: 4:29.30	SIZ	—	6	37.263	116.505	2.0	C	192	6.90	6.00	HSF	—		—		—		1.8	HSF	—		—	
1969 8	19:49: 6.20	SIZ	—	6	37.225	116.492	1.1	C	205	3.70	1.20	HSF	—		—		—		1.6	HSF	—		—	
1969 9	0:51: 4.00	SIZ	—	6	37.213	116.513	0.9	C	225	0.60*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 9	8:56:25.60	SIZ	—	7	37.202	116.518	0.7	D	232	0.60*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 9	12:48:17.50	SIZ	—	6	37.243	116.502	0.4	B	203	1.00	1.30	HSF	—		—		—		1.8	HSF	—		—	
1969 9	13:15:42.50	SIZ	—	7	37.248	116.498	0.6	B	195	2.50	1.00	HSF	—		—		—		2.3	HSF	—		—	
1969 9	14:11:18.50	SIZ	—	5	37.200	116.533	1.1	D	242	0.60*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 10	2:18:46.10	SIZ	—	5	37.203	116.570	2.5	D	263	0.60*	—	HSF	—		—		—		1.3	HSF	—		—	
1969 10	3:20: 1.00	SIZ	—	6	37.232	116.472	0.3	B	184	2.80	0.40	HSF	—		—		—		2.1	HSF	—		—	
1969 10	12:27:16.20	SIZ	—	6	37.282	116.532	3.5	D	244	5.50	4.90	HSF	—		—		—		1.6	HSF	—		—	
1969 10	14:56:51.30	SIZ	—	5	37.213	116.522	0.9	D	232	0.60*	—	HSF	—		—		—		1.0	HSF	—		—	
1969 12	23: 1:25.90	SIZ	—	5	37.252	116.518	—	D	235	4.90	—	HSF	—		—		—		2.4	HSF	—		—	
1969 13	5:18:32.70	SIZ	—	6	37.235	116.522	1.2	C	243	2.10	4.40	HSF	—		—		—		2.1	HSF	—		—	
1969 13	7:20: 6.60	SIZ	—	5	37.195	116.522	1.5	D	254	0.60*	—	HSF	—		—		—		1.3	HSF	—		—	
1969 13	9:33:51.60	SIZ	—	5	37.220	116.518	1.6	D	246	0.60*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 13	22:37:44.13		—	—	35.758	117.488	—	C	—	1.00*	—	PAS	1	BRP	2.4	BRP	3.4	PAS	—		—		—	
1969 14	2: 9:58.70	SIZ	—	5	37.242	116.513	1.9	D	234	3.00*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 14	10:55:44.70	SIZ	—	5	37.247	116.502	—	D	221	3.00	—	HSF	—		—		—		2.2	HSF	—		—	
1969 14	14:17:29.90	SIZ	—	5	37.223	116.522	2.1	D	246	0.60*	—	HSF	—		—		—		1.2	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 FEB 14	15:11:35.10	SIZ	—	5	37.190	116.528	1.8	D	259	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 15	8:15:27.30	SIZ	—	5	37.225	116.520	1.9	D	245	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 15	11:31:18.30	SIZ	—	5	37.222	116.520	2.1	D	246	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 15	19:40:48.90	SIZ	—	5	37.223	116.520	1.9	D	246	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 16	1: 1:46.80	SIZ	—	5	37.255	116.505	—	D	217	4.60	—	HSF	—		—		—		1.6	HSF	—		—	
1969 16	4: 5: 1.60	SIZ	—	5	37.210	116.545	3.1	D	265	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 16	7:11:16.80		—	5	37.198	116.560	2.8	D	273	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 16	14: 3:41.60	SIZ	—	5	37.225	116.518	1.8	D	245	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 16	22:19:49.40	SIZ	—	5	37.203	116.502	0.8	D	242	0.60*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 17	11:36:40.30	SIZ	—	5	37.208	116.520	1.8	D	250	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 17	13:24:31.00	SIZ	—	5	37.208	116.517	1.8	D	248	0.60*	—	HSF	—		—		—		2.5	HSF	—		—	
1969 17	13:25:39.60	SIZ	—	5	37.208	116.535	1.9	D	259	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 17	14:51:36.90	SIZ	—	5	37.235	116.495	—	D	222	2.90	—	HSF	—		—		—		2.0	HSF	—		—	
1969 17	15:18: 6.40	SIZ	—	5	37.208	116.515	1.9	D	246	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 18	5:47:27.60	SIZ	—	6	37.235	116.527	1.3	C	232	4.40	1.40	HSF	—		—		—		2.0	HSF	—		—	
1969 18	6:27:12.80	SIZ	—	7	37.217	116.513	0.8	C	225	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 18	14:58: 4.14		—	—	35.769	117.671	—	B	—	1.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1969 18	16:37:58.60	SIZ	—	7	37.252	116.502	0.8	C	196	3.00*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 19	9:11:38.40	SIZ	—	6	37.265	116.485	0.4	C	166	3.00*	—	HSF	—		—		—		2.5	HSF	—		—	
1969 19	10:50:27.60	SIZ	—	7	37.213	116.515	1.0	D	227	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 19	12: 1:54.10	SIZ	—	6	37.197	116.507	1.0	D	228	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 19	14:58: 3.80	SIZ	—	7	37.243	116.517	0.9	C	219	3.00*	—	HSF	—		—		—		2.5	HSF	—		—	
1969 20	7:26:23.00	SIZ	—	5	37.227	116.497	1.3	D	207	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 20	12: 4:31.20	SIZ	—	7	37.202	116.490	0.5	C	215	0.60*	—	HSF	—		—		—		2.6	HSF	—		—	
1969 20	15:31: 3.48		—	—	35.770	117.671	—	B	—	1.00*	—	PAS	—		1.1	BRP	2.4	PAS	—		—		—	
1969 21	4: 8:39.60	SIZ	—	7	37.207	116.512	0.8	D	227	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 21	4:56: 5.30	SIZ	—	7	37.187	116.508	0.7	D	231	0.60*	—	HSF	—		—		—		2.5	HSF	—		—	
1969 21	10:49:17.30	SIZ	—	7	37.232	116.517	1.1	C	222	2.90	1.30	HSF	—		—		—		1.8	HSF	—		—	
1969 21	11: 5:35.90	SIZ	—	7	37.230	116.515	0.9	B	222	2.60	1.20	HSF	—		—		—		2.0	HSF	—		—	
1969 21	11: 9:50.70	SIZ	—	7	37.228	116.518	1.2	C	225	0.80	4.90	HSF	—		—		—		1.5	HSF	—		—	
1969 21	12:30:50.20	SIZ	—	7	37.168	116.513	0.8	D	240	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 21	16:27:36.10	SIZ	—	7	37.247	116.500	1.0	B	198	3.50	1.40	HSF	—		—		—		2.3	HSF	—		—	
1969 21	23:11: 4.70	SIZ	—	7	37.338	116.343	1.5	C	168	3.00*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 22	0:10: 2.70	SIZ	—	7	37.247	116.513	1.1	C	213	3.20	1.50	HSF	—		—		—		2.1	HSF	—		—	
1969 22	2:17:39.60	SIZ	—	5	37.205	116.512	0.4	D	227	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 22	3:30:57.80	SIZ	—	5	37.277	116.462	—	D	135	3.40	—	HSF	—		—		—		1.1	HSF	—		—	
1969 22	4: 8:54.60	SIZ	—	7	37.223	116.510	0.8	C	220	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 22	4:14:43.50	SIZ	—	7	37.208	116.510	0.7	C	225	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 22	5:33:47.30	SIZ	—	6	37.202	116.525	0.9	D	237	0.60*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 22	6:35: 3.40	SIZ	—	7	37.177	116.507	0.8	D	234	0.60*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 22	11:47:40.90	SIZ	—	6	37.220	116.520	1.3	D	229	0.60*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 22	13:41:39.40	SIZ	—	6	37.243	116.517	1.1	C	220	3.00*	—	HSF	—		—		—		1.3	HSF	—		—	
1969 22	14:49: 7.20	SIZ	—	6	37.235	116.470	0.4	C	181	3.00*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 23	10:15:27.00	SIZ	—	6	37.232	116.527	1.1	C	233	4.20	1.30	HSF	—		—		—		1.8	HSF	—		—	
1969 23	22: 2:47.90	SIZ	—	6	37.275	116.523	3.7	C	216	8.70	9.20	HSF	—		—		—		2.4	HSF	—		—	
1969 25	2:37:17.80	SIZ	—	5	37.225	116.528	0.9	D	234	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 25	8:36:50.10	SIZ	—	5	37.223	116.525	0.8	D	232	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 25	21:26:17.20	SIZ	—	7	37.238	116.515	1.3	C	219	1.00	3.60	HSF	—		—		—		1.8	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 FEB 26	6: 3: 0.60	SIZ	—	5	37.208	116.533	0.7	D	287	0.60*	—	HSF	—		—		—		1.3	HSF	—		—	
1969 MAR 8	8:52:32.90	SIZ	—	6	37.217	116.517	1.2	D	227	0.60*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 8	8:54:50.80	SIZ	—	6	37.218	116.517	0.9	D	227	0.20*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 8	13: 9:55.90	SIZ	—	6	37.272	116.498	1.1	C	172	3.00*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 11	7:27:14.60	SIZ	—	6	37.193	116.515	1.3	D	234	1.30	8.00	HSF	—		—		—		1.8	HSF	—		—	
1969 11	8:17:36.70	SIZ	—	6	37.193	116.517	1.5	D	234	2.00	7.30	HSF	—		—		—		2.1	HSF	—		—	
1969 11	12:28:55.80	SIZ	—	6	37.242	116.517	1.0	C	220	3.00*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 11	15:38:48.10	SIZ	—	6	37.242	116.517	0.9	C	220	3.00*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 12	9:59:24.60	SIZ	—	5	37.235	116.520	—	D	225	1.80	—	HSF	—		—		—		1.2	HSF	—		—	
1969 12	22:51:29.60	SIZ	—	5	37.295	116.457	—	D	208	4.70	—	HSF	—		—		—		2.5	HSF	—		—	
1969 12	23:21:13.20	SIZ	—	5	37.232	116.540	—	D	242	2.00	—	HSF	—		—		—		2.3	HSF	—		—	
1969 14	11:31: 2.90	SIZ	—	6	37.210	116.513	0.8	D	227	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 14	11:43:54.90	SIZ	—	6	37.210	116.513	0.8	D	227	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 14	13:15:55.00	SIZ	—	6	37.265	116.477	1.7	C	158	5.80	4.80	HSF	—		—		—		1.8	HSF	—		—	
1969 14	21:16:59.80	SIZ	—	6	37.222	116.508	0.8	C	220	0.90*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 15	2: 8:46.50	SIZ	—	5	37.193	116.515	—	D	234	1.30	—	HSF	—		—		—		1.6	HSF	—		—	
1969 16	13:30:39.10	SIZ	—	5	37.187	116.532	1.0	D	244	0.80*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 16	21: 5:11.40	SIZ	—	5	37.218	116.518	—	D	228	1.30	—	HSF	—		—		—		1.8	HSF	—		—	
1969 18	4:50:55.40	SIZ	—	6	37.203	116.523	1.0	D	235	0.10*	—	HSF	—		—		—		1.5	HSF	—		—	
1969 18	13:35: 6.10	SIZ	—	6	37.195	116.545	1.3	D	250	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 18	14:40: 1.68	SIZ	—	—	37.114	116.039	—		—	8.00*	—	GDY	5	BRP	4.0	BRP	4.0	PDX	—		4.4	PDX	4.4	GDY
1969 20	4:40:35.40	SIZ	—	5	37.212	116.485	—	D	208	1.60	—	HSF	—		—		—		2.0	HSF	—		—	
1969 21	5:47:16.70	SIZ	—	5	37.200	116.492	—	D	218	2.80	—	HSF	—		—		—		1.3	HSF	—		—	
1969 21	6:34:29.30		—	5	37.120	116.392	—	D	213	3.10	—	HSF	—		—		—		1.7	HSF	—		—	
1969 21	13:42: 8.90	SIZ	—	5	37.257	116.440	—	D	140	3.30	—	HSF	—		—		—		1.4	HSF	—		—	
1969 22	2:12:56.90	SIZ	—	5	37.222	116.527	—	D	233	2.50	—	HSF	—		—		—		1.3	HSF	—		—	
1969 22	12:13:25.10	SIZ	—	5	37.225	116.530	—	D	235	1.20	—	HSF	—		—		—		1.7	HSF	—		—	
1969 24	13:42:57.00	SIZ	—	5	37.240	116.525	—	D	228	2.00	—	HSF	—		—		—		2.1	HSF	—		—	
1969 29	6: 3:35.20	SIZ	—	6	37.193	116.517	0.8	C	234	1.80	2.80	HSF	—		—		—		2.3	HSF	—		—	
1969 29	11:12:31.50	SIZ	—	7	37.247	116.513	1.2	C	214	3.40	1.60	HSF	—		—		—		2.2	HSF	—		—	
1969 30	6:57:56.60	SIZ	—	5	37.195	116.513	1.0	D	232	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 30	9:58:35.90	SIZ	—	5	37.208	116.525	—	D	235	1.50	—	HSF	—		—		—		2.0	HSF	—		—	
1969 31	7:16:57.00		—	5	37.125	116.388	—	D	208	3.30	—	HSF	—		—		—		2.1	HSF	—		—	
1969 31	10:56: 0.50	SIZ	—	5	37.213	116.530	—	D	237	1.80	—	HSF	—		—		—		1.6	HSF	—		—	
1969 APR 2	20:56:33.30	SIZ	—	5	37.218	116.527	—	D	234	2.50	—	HSF	—		—		—		2.1	HSF	—		—	
1969 3	3:12: 4.10	SIZ	—	5	37.250	116.507	—	D	203	1.50	—	HSF	—		—		—		1.6	HSF	—		—	
1969 4	2:49:33.50	SIZ	—	5	37.195	116.492	—	D	219	2.30	—	HSF	—		—		—		1.5	HSF	—		—	
1969 4	9: 2:35.20	SIZ	—	5	37.203	116.523	—	D	235	2.20	—	HSF	—		—		—		1.4	HSF	—		—	
1969 8	7:59:16.30	SIZ	—	6	37.245	116.497	2.1	C	197	6.00	11.80	HSF	—		—		—		1.6	HSF	—		—	
1969 8	11:40:13.70	SIZ	—	5	37.260	116.500	—	D	187	1.40	—	HSF	—		—		—		1.8	HSF	—		—	
1969 13	7:45:41.76		—	—	36.129	117.973	—		—	8.00*	—	GDY	—		1.8	BRP	3.0	PDX	—		—		3.0	GDY
1969 18	13:30:12.10	SIZ	—	6	37.208	116.515	1.5	D	228	1.30	9.50	HSF	—		—		—		2.0	HSF	—		—	
1969 18	13:41: 5.70	SIZ	—	6	37.207	116.518	1.7	D	232	2.00	8.00	HSF	—		—		—		1.6	HSF	—		—	
1969 24	13: 4: 2.13	SIZ	—	—	37.101	116.084	—		—	8.00*	—	GDY	—		—		3.8	PAS	—		—		3.8	GDY
1969 28	2:42:53.10	SIZ	—	5	37.203	116.515	0.5	D	230	0.60*	—	HSF	—		—		—		1.3	HSF	—		—	
1969 29	20:47: 0.70		—	5	37.210	116.630	6.5	D	306	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 MAY 2	3:41:29.65		—	—	35.841	116.640	—	C	—	1.40	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1969 3	8:26:16.50	SIZ	—	6	37.177	116.500	0.9	D	230	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR	MN	SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 MAY 3	12	33	30.42		—	—	35.808	116.904	—	C	—	10.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1969 4	11	12	6.80	SIZ	—	6	37.215	116.413	0.3	C	149	5.00*	—	HSF	—		—		—		1.3	HSF	—		—	
1969 4	11	52	9.80	SIZ	—	5	37.228	116.522	—	D	227	2.10	—	HSF	—		—		—		1.2	HSF	—		—	
1969 5	18	7	8.20	SIZ	—	5	37.265	116.467	—	D	151	2.30	—	HSF	—		—		—		1.4	HSF	—		—	
1969 7	7	0	1.50	SIZ	—	6	37.223	116.520	1.3	D	228	0.60*	—	HSF	—		—		—		1.0	HSF	—		—	
1969 7	15	4	32.80	SIZ	—	7	37.280	116.502	0.5	B	163	0.50	0.80	HSF	—		—		—		3.0	HSF	—		—	
1969 7	16	31	44.20	SIZ	—	6	37.270	116.498	0.6	B	174	3.50	0.80	HSF	—		—		—		2.1	HSF	—		—	
1969 7	17	41	1.80	SIZ	—	5	37.282	116.502	—	D	160	0.80	—	HSF	—		—		—		1.9	HSF	—		—	
1969 7	18	8	35.10	SIZ	—	7	37.273	116.488	0.8	B	158	3.00	1.10	HSF	—		—		—		2.0	HSF	—		—	
1969 7	18	33	37.10	SIZ	—	5	37.273	116.458	2.4	D	260	2.00*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 7	19	11	47.40	SIZ	—	6	37.292	116.493	1.3	C	151	0.20	2.00	HSF	—		—		—		2.0	HSF	—		—	
1969 7	20	23	39.30	SIZ	—	6	37.278	116.462	0.6	B	132	2.70	1.10	HSF	—		—		—		2.0	HSF	—		—	
1969 7	20	59	51.50	SIZ	—	6	37.278	116.462	0.7	B	132	2.60	1.40	HSF	—		—		—		2.1	HSF	—		—	
1969 7	21	7	44.00	SIZ	—	7	37.280	116.462	0.3	B	133	2.80	0.40	HSF	—		—		—		1.7	HSF	—		—	
1969 8	1	5	14.50	SIZ	—	6	37.265	116.498	1.9	C	182	5.90	8.30	HSF	—		—		—		1.7	HSF	—		—	
1969 8	1	24	38.40	SIZ	—	6	37.277	116.463	0.2	B	134	2.60	0.50	HSF	—		—		—		2.0	HSF	—		—	
1969 8	2	49	47.20	SIZ	—	7	37.278	116.463	0.6	B	133	2.40	1.10	HSF	—		—		—		2.0	HSF	—		—	
1969 8	4	31	47.90	SIZ	—	5	37.278	116.463	—	D	133	3.60	—	HSF	—		—		—		1.8	HSF	—		—	
1969 8	5	19	35.20	SIZ	—	5	37.277	116.468	—	D	138	2.40	—	HSF	—		—		—		1.4	HSF	—		—	
1969 8	5	24	56.30	SIZ	—	7	37.282	116.465	1.3	B	135	2.30	1.60	HSF	—		—		—		1.3	HSF	—		—	
1969 8	5	56	6.10	SIZ	—	7	37.277	116.508	0.8	B	180	0.70	1.20	HSF	—		—		—		1.9	HSF	—		—	
1969 8	9	52	5.40	SIZ	—	5	37.222	116.517	1.1	D	228	0.60*	—	HSF	—		—		—		1.5	HSF	—		—	
1969 8	12	35	23.70	SIZ	—	5	37.265	116.493	—	D	175	1.20	—	HSF	—		—		—		1.2	HSF	—		—	
1969 8	12	42	22.90	SIZ	—	6	37.275	116.493	0.7	B	161	3.40	0.80	HSF	—		—		—		1.8	HSF	—		—	
1969 9	0	8	21.90	SIZ	—	5	37.275	116.465	—	D	139	3.30	—	HSF	—		—		—		1.2	HSF	—		—	
1969 9	9	38	52.80	SIZ	—	6	37.255	116.515	1.0	B	212	4.90	0.90	HSF	—		—		—		1.6	HSF	—		—	
1969 9	10	12	30.10	SIZ	—	5	37.270	116.472	—	D	148	1.70	—	HSF	—		—		—		1.2	HSF	—		—	
1969 9	11	25	48.20	SIZ	—	5	37.223	116.600	5.0	D	280	2.00*	—	HSF	—		—		—		1.0	HSF	—		—	
1969 9	11	52	16.60	SIZ	—	7	37.237	116.527	2.7	D	229	2.00*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 11	14	48	39.90	SIZ	—	6	37.258	116.502	0.4	B	189	2.60	0.50	HSF	—		—		—		1.7	HSF	—		—	
1969 11	21	11	59.90	SIZ	—	5	37.242	116.490	0.4	D	192	2.00*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 12	1	28	34.60		—	6	37.065	116.440	2.6	D	270	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 13	6	40	17.90	SIZ	—	6	37.212	116.488	0.5	C	210	0.60*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 13	12	55	2.20	SIZ	—	5	37.222	116.527	0.6	D	233	0.60*	—	HSF	—		—		—		1.1	HSF	—		—	
1969 14	20	34	1.10	SIZ	—	6	37.222	116.482	1.5	D	257	0.60*	—	HSF	—		—		—		2.9	HSF	—		—	
1969 14	20	50	10.70		—	4	37.198	116.597	—	D	276	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 14	21	9	4.90	SIZ	—	5	37.218	116.480	3.0	D	255	0.60*	—	HSF	—		—		—		2.5	HSF	—		—	
1969 14	21	25	22.70	SIZ	—	5	37.218	116.523	1.6	D	232	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 14	21	28	1.90	SIZ	—	4	37.217	116.522	—	D	231	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 14	21	29	51.60	SIZ	—	5	37.223	116.517	0.8	D	226	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 14	21	58	10.80	SIZ	—	6	37.223	116.473	2.1	C	248	1.60	4.90	HSF	—		—		—		2.3	HSF	—		—	
1969 14	22	16	1.20	SIZ	—	6	37.222	116.523	0.8	D	231	0.60*	—	HSF	—		—		—		2.6	HSF	—		—	
1969 14	23	43	57.00	SIZ	—	4	37.222	116.522	—	D	230	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 15	0	53	1.60	SIZ	—	7	37.223	116.515	1.0	C	225	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 15	2	48	12.40	SIZ	—	4	37.225	116.522	—	D	228	0.60*	—	HSF	—		—		—		1.5	HSF	—		—	
1969 15	3	0	30.60	SIZ	—	4	37.223	116.525	—	D	232	0.60*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 15	3	17	14.90	SIZ	—	4	37.222	116.528	—	D	235	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 15	3	24	25.60	SIZ	—	7	37.225	116.513	1.5	C	223	0.60*	—	HSF	—		—		—		2.5	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 MAY 15	3:26: 6.60	SIZ	—	5	37.203	116.582	4.0	D	268	0.60*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 15	3:29: 0.00	SIZ	—	4	37.215	116.547	—	D	248	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 15	3:31: 0.00	SIZ	—	5	37.220	116.535	1.9	D	240	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 15	9:20:57.10	SIZ	—	5	37.227	116.525	1.0	D	232	0.60*	—	HSF	—		—		—		1.2	HSF	—		—	
1969 15	17:59:59.30	SIZ	—	—	37.031	115.922	—		—	3.00*	—	BRP	5	BRP	4.0	BRP	4.6	PDX	—		4.5	BRP	4.0	PDX
1969 15	20:28:22.70	SIZ	—	6	37.223	116.522	1.4	D	230	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 16	9: 4: 7.40	SIZ	—	5	37.283	116.515	—	D	182	1.30	—	HSF	—		—		—		2.0	HSF	—		—	
1969 17	2:22:52.56		—	—	36.105	117.811	—	A	—	10.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1969 18	9:57:52.40	SIZ	—	5	37.340	116.523	—	D	301	12.50	—	HSF	—		—		—		1.6	HSF	—		—	
1969 19	4:23:58.30	SIZ	—	6	37.245	116.493	0.5	C	193	0.10	2.80	HSF	—		—		—		2.1	HSF	—		—	
1969 20	11:26:10.20	SIZ	—	5	37.145	116.520	5.4	D	251	0.60*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 22	6:29:19.93		—	—	35.927	117.596	—	B	—	10.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		—	
1969 23	18: 9:59.10	SIZ	—	4	37.220	116.538	—	D	242	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 25	4: 2:37.76		—	—	35.791	117.656	—	B	—	10.00*	—	PAS	—		1.1	BRP	2.4	PAS	—		—		—	
1969 25	9: 3: 1.93		—	—	35.802	117.651	—	B	—	10.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		—	
1969 27	1:18:31.87		—	—	35.826	117.640	—	B	—	9.50	—	PAS	—		0.9	BRP	2.3	PAS	—		—		—	
1969 28	4:51:41.30	SIZ	—	4	37.253	116.512	—	D	226	3.60	—	HSF	—		—		—		1.8	HSF	—		—	
1969 30	17:20:44.10	SIZ	—	4	37.252	116.512	—	D	209	1.40	—	HSF	—		—		—		1.8	HSF	—		—	
1969 JUN 1	16:54:32.60	SIZ	—	5	37.205	116.520	1.9	D	237	0.60*	—	HSF	—		—		—		1.1	HSF	—		—	
1969 4	6: 1:22.20	SIZ	—	6	37.255	116.503	0.9	B	196	3.10	1.20	HSF	—		—		—		2.5	HSF	—		—	
1969 6	2:50:23.30	SIZ	—	6	37.198	116.545	2.6	D	250	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 7	13:43:18.40	SIZ	—	5	37.240	116.522	—	D	226	2.50	—	HSF	—		—		—		2.0	HSF	—		—	
1969 9	22:53:46.80	SIZ	—	6	37.202	116.477	0.2	B	207	3.20	0.20	HSF	—		—		—		2.0	HSF	—		—	
1969 11	18:20:19.80	SIZ	—	7	37.278	116.533	1.4	D	261	0.60*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 12	11:38: 7.20	SIZ	—	7	37.263	116.505	0.7	B	193	4.50	0.50	HSF	—		—		—		1.8	HSF	—		—	
1969 13	1:20:19.49		—	—	37.198	117.766	—		—	8.00*	—	GOY	1	BRP	2.5	BRP	3.5	PAS	—		3.9	PDX	3.8	BRK
1969 13	8:17: 4.40	SIZ	—	7	37.207	116.510	1.6	C	226	7.90	2.40	HSF	—		—		—		1.2	HSF	—		—	
1969 13	12: 0:21.80	SIZ	—	7	37.218	116.517	2.1	C	227	7.90	2.80	HSF	—		—		—		1.7	HSF	—		—	
1969 13	19:27:59.50	SIZ	—	5	37.193	116.538	2.0	D	246	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 13	19:43:15.00	SIZ	—	8	37.195	116.548	1.0	D	238	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 19	7:35:19.20	SIZ	—	7	37.180	116.458	0.3	C	194	1.50*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 19	10:52: 3.00	SIZ	—	7	37.215	116.518	1.7	C	229	5.30	1.90	HSF	—		—		—		1.6	HSF	—		—	
1969 20	11: 5:11.90	SIZ	—	7	37.260	116.518	0.7	B	183	5.30	1.20	HSF	—		—		—		1.7	HSF	—		—	
1969 22	12:12:24.30	SIZ	—	10	37.268	116.502	0.3	A	105	4.60	0.30	HSF	—		—		—		2.2	HSF	—		—	
1969 22	22:36: 5.50	SIZ	—	5	37.190	116.482	0.3	D	211	3.00*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 23	5:58:37.30	SIZ	—	9	37.200	116.528	0.9	C	203	0.60*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 23	23:29: 2.70	SIZ	—	11	37.145	116.522	0.6	D	226	0.60*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 26	16: 0: 1.58	SIZ	—	—	37.101	116.039	—		—	8.00*	—	GOY	5	BRP	4.2	BRP	4.4	PDX	—		4.4	PDX	4.4	GOY
1969 28	6:16:54.00	SIZ	—	7	37.148	116.532	0.9	D	228	0.60*	—	HSF	—		—		—		1.2	HSF	—		—	
1969 30	3:14:39.60	SIZ	—	6	37.292	116.507	0.9	B	133	2.10	0.80	HSF	—		—		—		1.7	HSF	—		—	
1969 JUL 4	12:50:24.40	SIZ	—	9	37.262	116.518	0.6	B	159	5.70	1.20	HSF	—		—		—		0.4	HSF	—		—	
1969 5	4:23:41.50	SIZ	—	9	37.163	116.432	2.2	C	185	3.00*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 5	4:26: 2.60	SIZ	—	8	37.153	116.433	1.9	C	192	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1969 5	5: 0: 6.20	SIZ	—	9	37.160	116.438	2.2	C	191	3.00*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 5	5:55:18.00	SIZ	—	9	37.153	116.445	2.1	C	197	3.00*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 5	7:34:53.90	SIZ	—	8	37.153	116.432	1.9	C	192	3.00*	—	HSF	—		—		—		1.5	HSF	—		—	
1969 5	9:16:30.40	SIZ	—	9	37.155	116.442	2.2	C	194	3.00*	—	HSF	—		—		—		1.3	HSF	—		—	
1969 5	11:30:14.70	SIZ	—	8	37.173	116.423	1.7	C	175	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 JUL 5	13:35:44.80	SIZ	—	9	37.157	116.443	2.2	C	194	3.00*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 5	13:37:17.40	SIZ	—	8	37.150	116.438	1.7	C	197	3.00*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 5	13:38:44.80	SIZ	—	9	37.157	116.442	2.3	C	193	3.00*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 5	22:24:53.80	SIZ	—	8	37.260	116.520	0.5	C	162	5.00*	—	HSF	—		—		—		0.8	HSF	—		—	
1969 6	3:27:27.40	SIZ	—	9	37.293	116.510	0.5	B	133	1.70	0.40	HSF	—		—		—		2.1	HSF	—		—	
1969 8	20:50:25.77		—	—	35.664	117.612	—	B	—	10.00*	—	PAS	1	BRP	2.2	BRP	3.3	PAS	—		—		—	
1969 9	8: 8:47.30	SIZ	—	7	37.288	116.455	0.8	B	124	4.80	1.50	HSF	—		—		—		1.5	HSF	—		—	
1969 12	3:59:27.40	SIZ	—	9	37.162	116.443	1.6	3	191	3.00*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 12	4: 0:51.30	SIZ	—	8	37.153	116.437	1.6	C	194	3.00*	—	HSF	—		—		—		1.3	HSF	—		—	
1969 12	4:26:46.60	SIZ	—	9	37.162	116.418	0.7	B	182	14.60	1.70	HSF	—		—		—		0.5	HSF	—		—	
1969 12	4:36:33.70	SIZ	—	10	37.158	116.438	1.7	C	191	3.00*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 12	10:11:29.90	SIZ	—	7	37.160	116.428	0.8	C	186	3.00*	—	HSF	—		—		—		0.4	HSF	—		—	
1969 12	13:28:14.50	SIZ	—	9	37.165	116.423	1.4	C	181	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1969 12	23:16:39.40	SIZ	—	8	37.155	116.433	1.7	C	192	3.00*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 13	3:20:25.60	SIZ	—	10	37.175	116.420	1.4	C	169	3.00*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 13	3:45:33.60	SIZ	—	9	37.160	116.442	1.7	C	191	3.00*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 13	9:27:29.00		—	7	36.000	118.000	—		—	—	—	BRK	1	BRP	2.4	BRP	3.4	BRK	—		—		—	
1969 14	9:33:46.00	SIZ	—	7	37.258	116.518	0.7	B	161	6.80	1.60	HSF	—		—		—		2.1	HSF	—		—	
1969 14	10:38:35.60	SIZ	—	7	37.173	116.438	1.6	C	182	3.00*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 14	17: 6:20.30	SIZ	—	6	37.212	116.437	0.5	C	153	5.40*	—	HSF	—		—		—		1.1	HSF	—		—	
1969 14	20:45: 7.80	SIZ	—	7	37.200	116.553	0.9	C	174	3.00*	—	HSF	—		—		—		0.8	HSF	—		—	
1969 16	2:25:27.20	SIZ	—	8	37.140	116.510	1.8	D	171	1.60*	—	HSF	—		—		—		1.0	HSF	—		—	
1969 16	10: 2:23.80	SIZ	—	10	37.293	116.513	0.4	A	99	1.90	0.40	HSF	—		—		—		2.1	HSF	—		—	
1969 19	2:26:59.70	SIZ	—	5	37.232	116.498	—	D	166	3.20	—	HSF	—		—		—		2.4	HSF	—		—	
1969 21	12:46:28.70	SIZ	—	3	37.232	116.512	—	D	280	0.60*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 26	17:19: 8.75		—	—	37.280	114.926	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1969 28	21:29: 3.80	SIZ	—	6	37.258	116.517	2.5	D	254	3.00*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 29	17:20:23.60	SIZ	—	7	37.262	116.507	0.3	B	93	7.00	0.80	HSF	—		—		—		1.1	HSF	—		—	
1969 AUG 1	7:41:56.80	SIZ	—	8	37.287	116.512	0.6	C	83	2.00	6.00	HSF	—		—		—		2.2	HSF	—		—	
1969 1	7:52:12.30	SIZ	—	7	37.283	116.505	0.5	B	111	1.20	2.20	HSF	—		—		—		2.2	HSF	—		—	
1969 2	2:12:37.50	SIZ	—	5	37.153	116.435	2.0	C	149	3.00*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 2	17:53: 9.50	SIZ	—	5	37.258	116.527	1.1	C	114	3.00*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 5	14:20:30.40	SIZ	—	5	37.208	116.523	0.8	C	121	3.00*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 5	14:42: 6.20	SIZ	—	5	37.213	116.522	0.5	C	117	5.00*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 5	14:43: 6.20	SIZ	—	4	37.193	116.535	—	D	209	0.60*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 5	14:58: 7.10	SIZ	—	6	37.205	116.523	0.5	C	123	3.00*	—	HSF	—		—		—		1.9	HSF	—		—	
1969 5	15: 9: 4.90	SIZ	—	5	37.230	116.510	—	D	108	7.30	—	HSF	—		—		—		1.6	HSF	—		—	
1969 6	3:18:55.70	SIZ	—	5	37.213	116.522	—	D	118	4.70	—	HSF	—		—		—		1.5	HSF	—		—	
1969 6	3:50:58.00	SIZ	—	5	37.213	116.523	—	D	118	4.50	—	HSF	—		—		—		1.9	HSF	—		—	
1969 6	9: 4: 2.50	SIZ	—	5	37.215	116.520	—	D	117	5.00	—	HSF	—		—		—		2.0	HSF	—		—	
1969 7	10:58:50.50	SIZ	—	5	37.212	116.522	0.5	C	119	5.20*	—	HSF	—		—		—		0.9	HSF	—		—	
1969 7	11: 5:31.00	SIZ	—	5	37.212	116.523	0.4	C	119	4.50*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 7	12:28:40.60	SIZ	—	5	37.297	116.462	—	D	222	4.70	—	HSF	—		—		—		2.1	HSF	—		—	
1969 7	12:36: 6.10	SIZ	—	5	37.212	116.523	—	D	119	4.50	—	HSF	—		—		—		0.4	HSF	—		—	
1969 7	12:52:51.00	SIZ	—	4	37.290	116.478	—	D	193	3.50	—	HSF	—		—		—		1.1	HSF	—		—	
1969 9	2:49:24.90	SIZ	—	5	37.148	116.442	1.8	C	154	0.60*	—	HSF	—		—		—		1.2	HSF	—		—	
1969 9	2:51:18.40	SIZ	—	5	37.150	116.438	1.9	C	151	0.60*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 9	3: 8:16.10	SIZ	—	6	37.155	116.427	1.7	C	146	0.60*	—	HSF	—		—		—		1.5	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 AUG 9	13:37: 9.50	SIZ	—	5	37.260	116.515	0.3	C	136	5.10*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 10	23:26:31.50	SIZ	—	5	37.302	116.458	—	D	225	4.80	—	HSF	—		—		—		2.1	HSF	—		—	
1969 11	7: 2: 8.10	SIZ	—	6	37.263	116.485	0.4	B	148	3.90	0.50	HSF	—		—		—		2.4	HSF	—		—	
1969 11	9:16: 4.30	SIZ	—	5	37.220	116.515	—	D	188	6.50	—	HSF	—		—		—		1.1	HSF	—		—	
1969 13	15:45:15.30	SIZ	—	5	37.265	116.482	—	D	147	4.10	—	HSF	—		—		—		2.7	HSF	—		—	
1969 16	11:57:46.89		—	—	35.707	117.648	—		—	8.00*	—	GDY	1	BRP	2.4	BRP	3.4	PAS	—		4.0	PDX	4.0	GDY
1969 16	12: 0:15.64		—	—	35.794	117.645	—	C	—	7.70	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1969 16	14:32:48.00	SIZ	—	5	37.240	116.530	0.4	D	181	3.00*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 16	14:51:55.50	SIZ	—	5	37.240	116.530	0.4	C	180	3.00*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 16	16: 3:46.50	SIZ	—	4	37.200	116.532	—	D	205	0.60*	—	HSF	—		—		—		0.3	HSF	—		—	
1969 17	7: 3:54.50	SIZ	—	5	37.232	116.522	0.1	D	183	5.20*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 18	0:34:26.20		—	5	37.187	116.570	—	D	227	2.50	—	HSF	—		—		—		1.4	HSF	—		—	
1969 18	1:27: 6.90		—	4	37.185	116.570	—	D	228	0.60*	—	HSF	—		—		—		0.8	HSF	—		—	
1969 18	20:33:19.50	SIZ	—	4	37.205	116.397	—	D	149	0.20*	—	HSF	—		—		—		3.0	HSF	—		—	
1969 18	20:51:43.90	SIZ	—	4	37.215	116.393	—	D	152	9.60	—	HSF	—		—		—		2.9	HSF	—		—	
1969 18	23:15:52.70	SIZ	—	5	37.203	116.408	—	D	154	6.50	—	HSF	—		—		—		2.2	HSF	—		—	
1969 18	23:24:25.30	SIZ	—	5	37.210	116.398	—	D	147	9.10	—	HSF	—		—		—		1.6	HSF	—		—	
1969 19	1:27:53.40	SIZ	—	5	37.203	116.408	0.8	C	153	5.50*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 19	1:32: 9.90	SIZ	—	5	37.202	116.407	0.7	C	155	5.50*	—	HSF	—		—		—		1.6	HSF	—		—	
1969 19	2:51: 3.30	SIZ	—	5	37.203	116.407	0.7	C	153	6.00*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 19	2:58: 0.70	SIZ	—	5	37.205	116.407	0.6	C	153	5.20*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 19	5: 4: 0.60	SIZ	—	5	37.203	116.405	0.6	C	153	5.30*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 19	5:48: 7.60	SIZ	—	5	37.205	116.405	0.8	C	152	5.20*	—	HSF	—		—		—		1.5	HSF	—		—	
1969 19	10:30:17.60	SIZ	—	5	37.198	116.412	0.9	C	158	6.00*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 19	13: 9:10.90		—	5	37.185	116.575	—	D	230	6.10	—	HSF	—		—		—		1.9	HSF	—		—	
1969 20	5: 8:48.80	SIZ	—	5	37.213	116.388	—	D	179	12.90	—	HSF	—		—		—		1.5	HSF	—		—	
1969 20	18:53:22.50	SIZ	—	4	37.177	116.552	—	D	144	3.00*	—	HSF	—		—		—		1.7	HSF	—		—	
1969 20	23: 3: 0.90	SIZ	—	6	37.210	116.403	0.8	C	169	5.70*	—	HSF	—		—		—		2.0	HSF	—		—	
1969 20	23:17:35.10	SIZ	—	6	37.200	116.410	0.8	C	159	5.80*	—	HSF	—		—		—		1.2	HSF	—		—	
1969 21	2: 3:43.60	SIZ	—	6	37.213	116.397	0.8	B	174	6.70	1.30	HSF	—		—		—		2.3	HSF	—		—	
1969 21	2: 8:15.60	SIZ	—	5	37.198	116.413	—	D	155	7.00	—	HSF	—		—		—		1.3	HSF	—		—	
1969 21	2:13:22.40	SIZ	—	6	37.205	116.405	0.7	C	165	6.20*	—	HSF	—		—		—		0.8	HSF	—		—	
1969 21	3:32:22.30	SIZ	—	6	37.208	116.400	1.1	C	169	6.00	2.50	HSF	—		—		—		1.1	HSF	—		—	
1969 21	7:58:16.60	SIZ	—	5	37.197	116.407	—	D	159	7.20	—	HSF	—		—		—		1.0	HSF	—		—	
1969 21	9:28:38.50	SIZ	—	7	37.202	116.398	0.6	B	166	6.70	1.20	HSF	—		—		—		2.0	HSF	—		—	
1969 21	11:48:20.70	SIZ	—	5	37.187	116.415	—	D	152	6.80	—	HSF	—		—		—		1.0	HSF	—		—	
1969 21	12:38:57.30	SIZ	—	7	37.195	116.408	0.6	B	156	6.80	1.10	HSF	—		—		—		2.1	HSF	—		—	
1969 21	21:47:16.40	SIZ	—	8	37.198	116.400	0.5	B	166	7.70	1.20	HSF	—		—		—		2.2	HSF	—		—	
1969 21	22:37:13.10	SIZ	—	7	37.202	116.398	0.4	B	169	7.40	0.80	HSF	—		—		—		0.9	HSF	—		—	
1969 22	0: 1:50.70	SIZ	—	9	37.203	116.402	0.4	A	116	6.80	1.00	HSF	—		—		—		2.2	HSF	—		—	
1969 22	0:10:51.40	SIZ	—	9	37.203	116.400	0.4	A	116	6.80	1.50	HSF	—		—		—		2.1	HSF	—		—	
1969 22	0:14:29.10	SIZ	—	8	37.208	116.380	0.5	B	187	8.70	1.10	HSF	—		—		—		1.0	HSF	—		—	
1969 22	2:19:30.40	SIZ	—	10	37.205	116.398	0.4	A	118	6.70	1.00	HSF	—		—		—		1.5	HSF	—		—	
1969 22	3:16:52.80	SIZ	—	11	37.203	116.398	0.3	A	117	6.80	0.80	HSF	—		—		—		1.4	HSF	—		—	
1969 22	4:35:11.50	SIZ	—	12	37.203	116.400	0.4	A	117	7.90	1.10	HSF	—		—		—		1.6	HSF	—		—	
1969 22	7:58:58.90	SIZ	—	6	37.195	116.550	1.9	C	180	12.00	7.00	HSF	—		—		—		0.8	HSF	—		—	
1969 22	11:31:42.50	SIZ	—	12	37.203	116.400	0.4	A	116	7.70	1.00	HSF	—		—		—		1.9	HSF	—		—	
1969 22	12:45: 9.00	SIZ	—	12	37.205	116.402	0.4	A	117	8.00	1.00	HSF	—		—		—		1.6	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 AUG 22	14:37:26.10		—	10	37.188	116.568	0.7	D	226	5.10*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 23	1:45:20.40	SIZ	—	11	37.208	116.398	0.2	A	119	6.50	0.70	HSF	—		—		—		2.1	HSF	—		—	
1969 23	3:33:24.40	SIZ	—	12	37.208	116.400	0.4	A	119	7.80	0.90	HSF	—		—		—		2.0	HSF	—		—	
1969 23	3:36:37.60	SIZ	—	10	37.208	116.400	0.3	A	118	7.10	0.80	HSF	—		—		—		1.5	HSF	—		—	
1969 23	3:47:12.70	SIZ	—	10	37.207	116.400	0.3	A	118	6.30	1.20	HSF	—		—		—		1.1	HSF	—		—	
1969 23	3:56:53.80	SIZ	—	9	37.208	116.403	0.3	A	118	6.60	0.90	HSF	—		—		—		1.0	HSF	—		—	
1969 23	4:15:51.30	SIZ	—	7	37.203	116.403	0.5	B	138	7.10	1.10	HSF	—		—		—		0.8	HSF	—		—	
1969 23	5: 4:25.30	SIZ	—	12	37.203	116.402	0.4	A	116	7.60	1.00	HSF	—		—		—		2.0	HSF	—		—	
1969 23	5:33: 3.90	SIZ	—	11	37.205	116.402	0.5	A	117	7.10	1.20	HSF	—		—		—		1.0	HSF	—		—	
1969 23	6:16:54.60		—	10	37.198	116.563	0.3	B	126	7.40	0.90	HSF	—		—		—		1.4	HSF	—		—	
1969 23	8:17:42.70	SIZ	—	11	37.157	116.403	0.6	B	133	5.00	0.60	HSF	—		—		—		1.8	HSF	—		—	
1969 23	11:27:47.40	SIZ	—	10	37.203	116.402	0.2	A	116	6.60	0.70	HSF	—		—		—		2.1	HSF	—		—	
1969 23	16:57:39.60	SIZ	—	10	37.203	116.400	0.2	A	116	6.30	0.70	HSF	—		—		—		1.4	HSF	—		—	
1969 24	5:12:54.10	SIZ	—	10	37.205	116.400	0.5	A	117	6.90	1.30	HSF	—		—		—		2.2	HSF	—		—	
1969 24	5:41:41.40	SIZ	—	10	37.205	116.398	0.5	B	118	6.60	2.60	HSF	—		—		—		1.5	HSF	—		—	
1969 26	3:16:18.70		—	8	37.192	116.560	0.6	B	139	7.30	3.70	HSF	—		—		—		1.4	HSF	—		—	
1969 27	5:16:41.40	SIZ	—	6	37.178	116.410	0.2	B	118	6.50	0.60	HSF	—		—		—		1.1	HSF	—		—	
1969 27	14:44:51.70	SIZ	—	5	37.177	116.415	—	D	147	5.90	—	HSF	—		—		—		1.0	HSF	—		—	
1969 28	1: 0: 7.10	SIZ	—	6	37.247	116.507	0.8	B	185	3.20	1.30	HSF	—		—		—		1.9	HSF	—		—	
1969 28	5: 2: 7.20	SIZ	—	5	37.205	116.380	0.4	C	155	1.60*	—	HSF	—		—		—		1.3	HSF	—		—	
1969 31	19:29:27.20	SIZ	—	5	37.262	116.620	5.6	D	319	1.60*	—	HSF	—		—		—		1.0	HSF	—		—	
1969 SEP 3	3:44:13.80	SIZ	—	5	37.208	116.385	0.8	C	153	2.30*	—	HSF	—		—		—		0.9	HSF	—		—	
1969 3	4: 3:28.00	SIZ	—	5	37.208	116.385	0.6	C	153	1.60*	—	HSF	—		—		—		0.8	HSF	—		—	
1969 3	4:13:45.00	SIZ	—	5	37.208	116.385	0.6	C	153	1.60*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 5	1:26:38.80	SIZ	—	7	37.275	116.505	0.9	B	219	4.10	0.60	HSF	—		—		—		1.8	HSF	—		—	
1969 6	22:38:38.80	SIZ	—	9	37.240	116.498	0.5	A	115	4.90	0.30	HSF	—		—		—		1.5	HSF	—		—	
1969 8	11:34: 6.38		—	—	36.125	117.908	—	B	—	3.50	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1969 11	1:38: 4.70	SIZ	—	7	37.198	116.500	0.8	B	192	3.10	1.20	HSF	—		—		—		1.9	HSF	—		—	
1969 13	21: 1:33.60	SIZ	—	9	37.262	116.525	0.1	A	73	6.10	0.30	HSF	—		—		—		1.1	HSF	—		—	
1969 16	14: 4:47.40	SIZ	—	9	37.258	116.510	0.3	B	122	4.80	0.20	HSF	—		—		—		1.7	HSF	—		—	
1969 16	14:48:24.80	SIZ	—	13	37.315	116.462	0.1	C	62	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	14:52:40.30	SIZ	—	7	37.312	116.438	1.1	C	196	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	14:56:56.50	SIZ	—	13	37.317	116.457	0.4	C	81	0.60*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 16	14:57:39.60	SIZ	—	13	37.320	116.457	0.1	C	64	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	14:58:11.00	SIZ	—	10	37.318	116.453	0.5	C	90	0.60*	—	HSF	—		—		—		3.0	HSF	—		—	
1969 16	14:59:36.50	SIZ	—	9	37.287	116.455	0.3	C	91	0.00*	—	HSF	—		—		—		2.9	HSF	—		—	
1969 16	15: 1:35.40	SIZ	—	14	37.318	116.452	0.2	C	64	0.60*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 16	15: 4:59.30	SIZ	—	14	37.317	116.457	0.2	C	63	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	15:10:32.70	SIZ	—	15	37.315	116.455	0.2	C	62	0.60*	—	HSF	—		—		—		2.9	HSF	—		—	
1969 16	15:14:58.70	SIZ	—	20	37.322	116.460	0.3	D	68	0.60	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	15:16: 0.70	SIZ	—	14	37.318	116.457	0.5	C	67	0.60*	—	HSF	—		—		—		3.0	HSF	—		—	
1969 16	15:21:32.10	SIZ	—	12	37.313	116.460	0.3	C	61	0.60*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 16	15:22:43.10	SIZ	—	13	37.315	116.462	0.2	C	63	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	15:28:39.30	SIZ	—	12	37.328	116.453	0.4	C	68	0.60*	—	HSF	—		—		—		2.5	HSF	—		—	
1969 16	15:31:53.10	SIZ	—	13	37.320	116.458	0.4	C	68	0.60*	—	HSF	—		—		—		3.2	HSF	4.1	PDX	—	
1969 16	15:34:50.60	SIZ	—	15	37.315	116.460	0.1	C	62	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	15:39:16.10	SIZ	—	10	37.317	116.463	0.3	C	86	0.60*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 16	15:43:39.10	SIZ	—	15	37.313	116.457	0.3	C	62	0.60*	—	HSF	—		—		—		4.3	HSF	4.9	PDX	—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE	ORIGIN TIME	HYPOCENTER											INTENSITY		MAGNITUDE							
(UTC)	HR MN SEC	FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	I	REF	MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 SEP 16	15:45:29.90	SIZ	—	6	37.318	116.458	0.6	C	83	0.60*	—	HSF	—		—		—		2.5	HSF	—		—	
1969 16	15:46:27.60	SIZ	—	9	37.312	116.455	0.5	C	107	0.60*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 16	15:50:16.50	SIZ	—	14	37.315	116.458	0.2	C	62	0.60*	—	HSF	—		—		—		2.9	HSF	—		—	
1969 16	15:51:41.40	SIZ	—	10	37.327	116.453	0.5	C	113	0.60*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 16	15:53:56.00	SIZ	—	10	37.318	116.460	0.4	C	68	0.60*	—	HSF	—		—		—		2.6	HSF	—		—	
1969 16	15:54:53.60	SIZ	—	7	37.312	116.450	0.7	C	139	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	15:55: 0.00	SIZ	—	—	37.300	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1969 16	15:56:36.90	SIZ	—	10	37.298	116.443	0.3	C	92	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 16	15:58:20.40	SIZ	—	9	37.318	116.460	0.2	C	84	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	16: 2: 1.90	SIZ	—	9	37.317	116.455	0.3	C	90	0.60*	—	HSF	—		—		—		3.0	HSF	—		—	
1969 16	16: 3:38.60	SIZ	—	13	37.315	116.455	0.2	C	63	0.60*	—	HSF	—		—		—		3.0	HSF	—		—	
1969 16	16: 7:26.20	SIZ	—	15	37.312	116.458	0.2	C	61	0.60*	—	HSF	—		—		—		2.9	HSF	—		—	
1969 16	16:14:23.60	SIZ	—	10	37.315	116.458	0.4	C	68	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	16:18:42.10	SIZ	—	12	37.315	116.455	0.4	C	112	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	16:19:33.10	SIZ	—	9	37.305	116.432	0.2	C	71	0.60*	—	HSF	—		—		—		2.1	HSF	—		—	
1969 16	16:21: 0.50	SIZ	—	8	37.332	116.443	0.6	C	74	0.60*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 16	16:22:26.80	SIZ	—	8	37.315	116.473	0.4	C	91	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	16:23:53.40	SIZ	—	12	37.312	116.455	0.3	C	61	0.60*	—	HSF	—		—		3.7	PDX	3.6	HSF	4.4	PDX	4.4	GDY
1969 16	16:34: 9.20	SIZ	—	11	37.318	116.453	0.3	C	64	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 16	16:38:39.30	SIZ	—	13	37.315	116.458	0.2	C	91	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	16:42:28.10	SIZ	—	14	37.312	116.463	0.1	C	61	0.60*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 16	16:46: 7.90	SIZ	—	17	37.318	116.460	0.2	C	63	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	16:47:58.30	SIZ	—	14	37.317	116.453	0.3	C	63	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	16:49:19.90	SIZ	—	11	37.317	116.453	0.2	C	63	0.60*	—	HSF	—		—		—		2.4	HSF	—		—	
1969 16	16:51:45.30	SIZ	—	16	37.313	116.462	0.2	C	62	0.60*	—	HSF	—		—		—		3.0	HSF	—		—	
1969 16	16:56:16.60	SIZ	—	17	37.315	116.458	0.1	B	55	1.90	1.00	HSF	—		—		—		2.7	HSF	—		—	
1969 16	17: 2:45.30	SIZ	—	19	37.313	116.458	0.2	C	55	1.70*	—	HSF	—		—		—		2.7	HSF	—		—	
1969 16	17: 8: 2.50	SIZ	—	13	37.318	116.457	0.3	C	64	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	17:11:39.40	SIZ	—	15	37.318	116.462	0.2	B	61	2.60	0.30	HSF	—		—		—		2.8	HSF	—		—	
1969 16	17:16:15.00	SIZ	—	15	37.318	116.460	0.2	C	64	0.60*	—	HSF	—		—		—		3.1	HSF	—		—	
1969 16	17:17:37.90	SIZ	—	15	37.315	116.460	0.2	C	63	0.60*	—	HSF	—		—		—		3.0	HSF	—		—	
1969 16	17:21: 0.00	SIZ	—	—	37.300	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1969 16	17:23:10.30	SIZ	—	10	37.317	116.457	0.2	C	105	0.60*	—	HSF	—		—		—		2.8	HSF	—		—	
1969 16	17:24:12.50	SIZ	—	14	37.315	116.462	0.2	C	62	0.60*	—	HSF	—		—		—		3.2	HSF	—		—	
1969 16	17:31:14.20	SIZ	—	10	37.317	116.460	0.6	C	84	0.60*	—	HSF	—		—		4.2	PDX	4.4	HSF	5.0	PDX	5.0	GDY
1969 16	18: 3: 9.60	SIZ	—	14	37.320	116.452	0.2	C	65	0.60*	—	HSF	—		—		—		2.9	HSF	—		—	
1969 16	18:14: 2.10	SIZ	—	9	37.312	116.447	0.3	C	65	0.60*	—	HSF	—		—		—		2.9	HSF	—		—	
1969 16	18:15:39.10	SIZ	—	13	37.317	116.455	0.3	C	64	0.60*	—	HSF	—		—		4.2	PDX	3.9	HSF	4.6	PDX	4.6	GDY
1969 16	18:37:41.40	SIZ	—	9	37.290	116.448	0.3	B	85	4.70	0.70	HSF	—		—		—		1.1	HSF	—		—	
1969 16	19:28: 5.60	SIZ	—	18	37.293	116.440	0.2	B	76	3.60	0.30	HSF	—		—		—		2.7	HSF	—		—	
1969 16	20: 7:34.50	SIZ	—	15	37.303	116.432	0.2	B	87	3.90	0.30	HSF	—		—		—		2.6	HSF	—		—	
1969 16	20:18:17.20	SIZ	—	17	37.305	116.430	0.2	B	48	3.80	0.30	HSF	—		—		—		2.6	HSF	—		—	
1969 16	21:19:34.40	SIZ	—	13	37.290	116.447	0.2	A	53	4.50	0.30	HSF	—		—		—		2.0	HSF	—		—	
1969 16	21:46:42.40	SIZ	—	15	37.287	116.450	0.2	A	47	4.10	0.20	HSF	—		—		—		1.9	HSF	—		—	
1969 16	23: 4:10.70	SIZ	—	15	37.325	116.450	0.2	A	69	2.40	0.90	HSF	—		—		—		2.4	HSF	—		—	
1969 16	23:22:24.50	SIZ	—	8	37.308	116.473	0.2	A	76	3.80	0.20	HSF	—		—		—		2.3	HSF	—		—	
1969 16	23:56:29.20	SIZ	—	5	37.325	116.458	1.2	D	237	3.00*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 17	0:25:12.90	SIZ	—	14	37.285	116.443	0.2	A	80	2.30	0.30	HSF	—		—		—		1.1	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 SEP 17	0:34:38.00	SIZ	—	4	37.312	116.473	—	D	123	3.00*	—	HSF	—		—		—		2.2	HSF	—		—	
1969 17	1:20:20.30	SIZ	—	10	37.312	116.467	0.2	B	137	0.80	0.20	HSF	—		—		—		2.7	HSF	—		—	
1969 17	2: 7: 4.20	SIZ	—	14	37.313	116.468	0.1	A	70	1.10	0.20	HSF	—		—		—		2.6	HSF	—		—	
1969 17	3:15:25.00	SIZ	—	7	37.323	116.468	0.4	B	122	2.70	1.10	HSF	—		—		—		2.8	HSF	—		—	
1969 17	3:29:37.10	SIZ	—	5	37.245	116.400	0.9	C	154	3.00*	—	HSF	—		—		—		2.3	HSF	—		—	
1969 17	3:46:44.80	SIZ	—	6	37.308	116.473	0.6	B	111	3.30	4.00	HSF	—		—		—		2.0	HSF	—		—	
1969 17	3:53: 4.70	SIZ	—	13	37.315	116.465	0.2	A	58	1.00	0.30	HSF	—		—		—		2.6	HSF	—		—	
1969 17	4:38:31.20	SIZ	—	12	37.318	116.467	0.1	A	74	1.10	0.20	HSF	—		—		—		2.5	HSF	—		—	
1969 17	6: 6:38.00	SIZ	—	15	37.315	116.468	0.2	A	65	1.50	0.20	HSF	—		—		—		2.4	HSF	—		—	
1969 17	6:47:38.00	SIZ	—	17	37.323	116.458	0.2	A	61	1.70	0.20	HSF	—		—		—		2.7	HSF	—		—	
1969 17	6:48:31.00	SIZ	—	16	37.287	116.445	0.2	A	48	4.10	0.20	HSF	—		—		—		2.5	HSF	—		—	
1969 17	6:53:57.70	SIZ	—	14	37.312	116.470	0.2	A	68	1.40	0.30	HSF	—		—		—		2.7	HSF	—		—	
1969 17	7:12:38.80	SIZ	—	17	37.327	116.467	0.1	A	66	2.30	0.30	HSF	—		—		—		2.5	HSF	—		—	
1969 17	9:37:30.80	SIZ	—	13	37.317	116.467	0.3	A	62	0.80	0.40	HSF	—		—		—		2.7	HSF	—		—	
1969 17	9:49:37.20	SIZ	—	14	37.315	116.462	0.2	A	62	0.50	0.30	HSF	—		—		—		2.7	HSF	—		—	
1969 17	11:12:57.50	SIZ	—	12	37.315	116.465	0.2	A	64	1.40	0.30	HSF	—		—		—		2.5	HSF	—		—	
1969 17	11:13:39.90	SIZ	—	16	37.325	116.465	0.2	A	65	2.10	0.30	HSF	—		—		—		2.7	HSF	—		—	
1969 17	15: 4: 3.40	SIZ	—	13	37.287	116.457	0.3	A	67	3.20	0.30	HSF	—		—		—		1.7	HSF	—		—	
1969 17	16:34: 2.80	SIZ	—	15	37.317	116.457	0.2	A	63	1.20	0.50	HSF	—		—		—		2.7	HSF	—		—	
1969 17	17:41:48.10	SIZ	—	17	37.290	116.447	0.2	A	54	4.50	0.20	HSF	—		—		—		1.7	HSF	—		—	
1969 17	19:58:41.10	SIZ	—	18	37.290	116.453	0.2	A	56	4.30	0.20	HSF	—		—		—		2.2	HSF	—		—	
1969 17	20:52:16.80	SIZ	—	17	37.325	116.467	0.1	A	66	2.20	0.30	HSF	—		—		—		2.7	HSF	—		—	
1969 17	21:12: 2.20	SIZ	—	17	37.323	116.448	0.1	A	56	1.60	0.10	HSF	—		—		—		2.6	HSF	—		—	
1969 17	21:33:59.70	SIZ	—	17	37.297	116.435	0.2	A	73	4.00	0.30	HSF	—		—		—		2.2	HSF	—		—	
1969 17	21:52:22.40	SIZ	—	18	37.298	116.437	0.2	A	72	4.40	0.20	HSF	—		—		—		2.5	HSF	—		—	
1969 17	23:34:44.10	SIZ	—	22	37.278	116.465	0.2	A	49	2.40	0.30	HSF	—		—		—		2.3	HSF	—		—	
1969 18	0:24:10.40	SIZ	—	21	37.300	116.435	0.2	A	42	4.20	0.20	HSF	—		—		—		2.3	HSF	—		—	
1969 18	2:14: 1.40	SIZ	—	21	37.307	116.427	0.1	A	44	3.80	0.20	HSF	—		—		—		2.6	HSF	—		—	
1969 18	2:27: 6.80	SIZ	—	19	37.307	116.425	0.1	A	44	3.80	0.20	HSF	—		—		—		2.1	HSF	—		—	
1969 18	3:42:42.40	SIZ	—	18	37.285	116.483	0.2	A	65	1.40	0.30	HSF	—		—		—		1.9	HSF	—		—	
1969 18	5:52:53.20	SIZ	—	23	37.308	116.427	0.2	A	44	3.80	0.20	HSF	—		—		—		2.6	HSF	—		—	
1969 18	6:30:23.80	SIZ	—	15	37.287	116.448	0.2	A	96	3.90	0.20	HSF	—		—		—		0.5	HSF	—		—	
1969 18	7: 0:52.20	SIZ	—	18	37.283	116.463	0.2	A	67	2.30	0.20	HSF	—		—		—		1.3	HSF	—		—	
1969 18	7: 1:49.70	SIZ	—	18	37.285	116.463	0.2	A	53	2.00	0.20	HSF	—		—		—		1.5	HSF	—		—	
1969 18	7: 3:28.30	SIZ	—	15	37.325	116.467	0.2	A	65	2.10	0.30	HSF	—		—		—		1.5	HSF	—		—	
1969 18	7:27:30.50	SIZ	—	18	37.297	116.437	0.2	A	74	4.10	0.20	HSF	—		—		—		2.0	HSF	—		—	
1969 18	8: 9: 6.00	SIZ	—	17	37.287	116.450	0.2	A	86	4.30	0.20	HSF	—		—		—		0.5	HSF	—		—	
1969 18	9:32:19.60	SIZ	—	19	37.278	116.465	0.2	A	101	2.40	0.30	HSF	—		—		—		1.9	HSF	—		—	
1969 18	10:24:12.50	SIZ	—	21	37.327	116.452	0.1	A	58	2.00	0.40	HSF	—		—		—		2.0	HSF	—		—	
1969 18	14: 7:37.40	SIZ	—	15	37.288	116.448	0.3	A	96	4.40	0.30	HSF	—		—		—		0.8	HSF	—		—	
1969 18	16:28: 8.60	SIZ	—	14	37.308	116.467	0.2	A	86	3.40	0.30	HSF	—		—		—		2.0	HSF	—		—	
1969 18	19:57:38.60	SIZ	—	21	37.308	116.475	0.2	A	58	2.50	0.30	HSF	—		—		—		2.1	HSF	—		—	
1969 18	22:25:13.70	SIZ	—	20	37.323	116.468	0.1	A	64	2.70	0.20	HSF	—		—		—		2.7	HSF	—		—	
1969 19	0:33:45.50	SIZ	—	19	37.315	116.465	0.2	A	58	2.70	0.30	HSF	—		—		—		1.4	HSF	—		—	
1969 19	3:50:20.70	SIZ	—	11	37.280	116.453	0.6	B	143	4.50	0.40	HSF	—		—		—		0.1	HSF	—		—	
1969 19	4:25: 0.60	SIZ	—	18	37.312	116.470	0.2	A	59	2.40	0.40	HSF	—		—		—		1.2	HSF	—		—	
1969 19	6:10:38.40	SIZ	—	21	37.318	116.465	0.2	A	60	0.70	0.20	HSF	—		—		—		2.0	HSF	—		—	
1969 19	6:14:28.70	SIZ	—	19	37.290	116.455	0.2	A	72	2.80	0.40	HSF	—		—		—		1.9	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 SEP 19	6:22:27.60	SIZ	—	19	37.328	116.467	0.2	A	67	1.90	0.30	HSF	—		—		—		1.5	HSF	—		—	
1969 19	6:31:16.10	SIZ	—	17	37.277	116.463	0.2	A	70	2.20	0.20	HSF	—		—		—		1.5	HSF	—		—	
1969 19	6:56:57.50	SIZ	—	16	37.290	116.457	0.2	A	71	2.40	0.50	HSF	—		—		—		1.1	HSF	—		—	
1969 19	8:38: 8.80	SIZ	—	17	37.318	116.443	0.2	A	86	1.10	0.90	HSF	—		—		—		1.6	HSF	—		—	
1969 19	8:50:37.10	SIZ	—	14	37.310	116.465	0.2	A	72	1.60	0.30	HSF	—		—		—		1.0	HSF	—		—	
1969 19	14: 9:44.30	SIZ	—	15	37.305	116.467	0.2	A	76	2.60	0.30	HSF	—		—		—		1.2	HSF	—		—	
1969 19	22:55: 2.70	SIZ	—	19	37.320	116.458	0.2	B	77	1.70	0.30	HSF	—		—		—		2.0	HSF	—		—	
1969 19	22:59:54.30	SIZ	—	18	37.315	116.458	0.1	A	60	1.50	0.20	HSF	—		—		—		2.6	HSF	—		—	
1969 20	0:55:20.30	SIZ	—	21	37.342	116.410	0.2	A	59	2.70	0.30	HSF	—		—		—		2.1	HSF	—		—	
1969 20	2:50:24.30	SIZ	—	16	37.318	116.463	0.2	A	84	1.10	0.40	HSF	—		—		—		1.5	HSF	—		—	
1969 20	8:37:22.30	SIZ	—	14	37.280	116.460	0.2	A	98	2.50	0.50	HSF	—		—		—		1.4	HSF	—		—	
1969 20	9:27:33.60	SIZ	—	16	37.315	116.465	0.1	A	66	1.20	0.20	HSF	—		—		—		1.2	HSF	—		—	
1969 20	10:19: 6.30	SIZ	—	14	37.280	116.463	0.1	A	67	2.60	0.20	HSF	—		—		—		1.3	HSF	—		—	
1969 20	12:24:56.50	SIZ	—	17	37.227	116.595	0.2	C	83	0.60*	—	HSF	—		—		—		1.2	HSF	—		—	
1969 20	13:36:16.80	SIZ	—	21	37.310	116.465	0.1	A	56	0.90	0.40	HSF	—		—		—		2.4	HSF	—		—	
1969 20	13:46:16.90	SIZ	—	19	37.308	116.465	0.1	A	55	0.60	0.20	HSF	—		—		—		1.4	HSF	—		—	
1969 20	14:30: 1.69	SIZ	—	—	37.148	116.066	—		—	8.00*	—	GDY	5	BRP	3.7	BRP	3.7	PDX	—		4.3	PDX	4.3	GDY
1969 20	19:33: 9.40	SIZ	—	19	37.308	116.477	0.2	A	59	2.90	0.30	HSF	—		—		—		1.3	HSF	—		—	
1969 20	20: 1: 1.70	SIZ	—	21	37.308	116.457	0.1	A	52	0.60	0.10	HSF	—		—		—		2.1	HSF	—		—	
1969 20	20:43:55.70	SIZ	—	20	37.323	116.452	0.1	A	57	1.60	0.10	HSF	—		—		—		1.5	HSF	—		—	
1969 20	21: 7:29.20	SIZ	—	21	37.298	116.440	0.2	A	44	4.00	0.20	HSF	—		—		—		1.5	HSF	—		—	
1969 20	23:53:11.70	SIZ	—	21	37.315	116.465	0.1	A	59	1.00	0.20	HSF	—		—		—		1.9	HSF	—		—	
1969 21	0:54:20.40	SIZ	—	17	37.307	116.477	0.1	A	58	2.40	0.20	HSF	—		—		—		1.3	HSF	—		—	
1969 21	1: 5: 9.30	SIZ	—	14	37.327	116.465	0.2	A	66	1.90	0.20	HSF	—		—		—		0.6	HSF	—		—	
1969 21	1:14: 1.70	SIZ	—	15	37.297	116.445	0.2	A	78	4.70	0.20	HSF	—		—		—		—		—		—	
1969 21	1:15:53.70	SIZ	—	12	37.300	116.462	0.2	A	86	1.70	0.30	HSF	—		—		—		0.2	HSF	—		—	
1969 21	6:16: 3.30	SIZ	—	15	37.307	116.463	0.2	A	78	2.10	0.20	HSF	—		—		—		1.3	HSF	—		—	
1969 21	7:19:15.40	SIZ	—	14	37.318	116.468	0.2	A	72	2.80	0.30	HSF	—		—		—		0.2	HSF	—		—	
1969 21	9:46:58.60	SIZ	—	18	37.288	116.468	0.2	A	99	2.50	0.30	HSF	—		—		—		1.1	HSF	—		—	
1969 21	10:23:19.10	SIZ	—	18	37.317	116.462	0.1	A	58	0.70	0.20	HSF	—		—		—		1.6	HSF	—		—	
1969 21	11:38:46.10	SIZ	—	17	37.327	116.462	0.2	A	65	2.00	0.20	HSF	—		—		—		1.5	HSF	—		—	
1969 21	16:37:49.60	SIZ	—	15	37.318	116.465	0.2	A	60	2.40	0.40	HSF	—		—		—		0.6	HSF	—		—	
1969 21	18:21:49.40	SIZ	—	15	37.310	116.475	0.2	A	59	2.90	0.30	HSF	—		—		—		0.4	HSF	—		—	
1969 21	18:48:39.20	SIZ	—	17	37.325	116.467	0.1	A	65	2.20	0.30	HSF	—		—		—		1.5	HSF	—		—	
1969 21	22: 4:52.60	SIZ	—	17	37.315	116.443	0.2	A	61	3.00	0.30	HSF	—		—		—		1.4	HSF	—		—	
1969 22	1:39: 4.00	SIZ	—	13	37.302	116.443	0.3	A	82	2.40	1.10	HSF	—		—		—		1.4	HSF	—		—	
1969 22	4:25:53.30	SIZ	—	14	37.327	116.442	0.1	A	90	1.50	0.20	HSF	—		—		—		1.3	HSF	—		—	
1969 22	16:47:26.40	SIZ	—	12	37.315	116.468	0.1	A	87	1.40	0.20	HSF	—		—		—		1.6	HSF	—		—	
1969 22	17: 4:44.50	SIZ	—	16	37.330	116.447	0.3	B	88	2.50	0.70	HSF	—		—		—		1.9	HSF	—		—	
1969 22	17: 7:26.40	SIZ	—	17	37.330	116.445	0.1	A	89	2.40	1.00	HSF	—		—		—		1.7	HSF	—		—	
1969 22	18: 2:11.20	SIZ	—	11	37.323	116.470	0.3	A	87	2.30	0.50	HSF	—		—		—		1.0	HSF	—		—	
1969 22	18:45:58.90	SIZ	—	14	37.287	116.472	0.2	A	64	3.60	0.20	HSF	—		—		—		1.1	HSF	—		—	
1969 22	20:49:14.20	SIZ	—	15	37.298	116.442	0.3	B	78	4.20	0.30	HSF	—		—		—		0.5	HSF	—		—	
1969 22	23:32:22.80	SIZ	—	15	37.297	116.447	0.2	A	75	4.90	0.10	HSF	—		—		—		0.2	HSF	—		—	
1969 23	0:48:44.20	SIZ	—	9	37.307	116.433	0.2	A	103	4.40	0.30	HSF	—		—		—		—		—		—	
1969 23	5:33:12.40	SIZ	—	13	37.318	116.465	0.2	A	88	0.80	0.70	HSF	—		—		—		1.4	HSF	—		—	
1969 23	9:15:49.90	SIZ	—	8	37.310	116.465	0.3	A	109	2.70	0.70	HSF	—		—		—		—		—		—	
1969 23	20:24:58.40	SIZ	—	12	37.312	116.470	0.2	A	106	1.50	0.20	HSF	—		—		—		1.9	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 SEP 23	21:25: 4.80	SIZ	—	11	37.143	116.492	0.5	C	166	0.60*	—	HSF	—		—		—		0.9	HSF	—		—	
1969 24	0:48:28.40	SIZ	—	5	37.325	116.473	0.1	C	117	2.00*	—	HSF	—		—		—		0.2	HSF	—		—	
1969 24	5: 6:16.80	SIZ	—	8	37.305	116.450	0.2	A	90	1.70	0.40	HSF	—		—		—		0.8	HSF	—		—	
1969 24	5:34:36.50	SIZ	—	6	37.313	116.470	0.5	B	105	0.00	0.90	HSF	—		—		—		1.2	HSF	—		—	
1969 24	10: 7:25.30	SIZ	—	6	37.323	116.462	—	C	85	1.90*	—	HSF	—		—		—		0.6	HSF	—		—	
1969 24	11:54:58.70	SIZ	—	14	37.285	116.457	0.1	A	71	4.50	0.10	HSF	—		—		—		2.1	HSF	—		—	
1969 24	13:13:57.20	SIZ	—	14	37.327	116.455	0.1	B	84	3.10	0.30	HSF	—		—		—		2.1	HSF	—		—	
1969 24	13:27:39.40	SIZ	—	6	37.322	116.473	0.4	B	101	1.50	0.60	HSF	—		—		—		0.1	HSF	—		—	
1969 24	22: 9:21.90	SIZ	—	13	37.285	116.453	0.2	A	81	4.50	0.20	HSF	—		—		—		1.6	HSF	—		—	
1969 24	22:46:41.20	SIZ	—	14	37.323	116.458	0.1	B	82	1.60	0.30	HSF	—		—		—		1.9	HSF	—		—	
1969 25	1:53: 6.30	SIZ	—	8	37.320	116.453	0.3	B	83	2.40*	—	HSF	—		—		—		1.3	HSF	—		—	
1969 25	2:12:32.20	SIZ	—	13	37.290	116.452	0.2	A	85	4.30	0.20	HSF	—		—		—		1.6	HSF	—		—	
1969 25	2:53:49.20	SIZ	—	8	37.283	116.455	0.2	B	100	4.40	0.30	HSF	—		—		—		1.2	HSF	—		—	
1969 25	3:53:30.20	SIZ	—	11	37.308	116.435	0.2	B	145	4.40	0.20	HSF	—		—		—		1.4	HSF	—		—	
1969 25	7:31:29.50	SIZ	—	7	37.290	116.453	0.1	B	95	4.40	0.10	HSF	—		—		—		0.4	HSF	—		—	
1969 26	7:57:55.80	SIZ	—	13	37.192	116.515	0.5	B	132	4.60	0.60	HSF	—		—		—		1.0	HSF	—		—	
1969 26	13:56:27.80	SIZ	—	11	37.303	116.440	0.3	A	97	4.00	0.40	HSF	—		—		—		1.5	HSF	—		—	
1969 27	6: 7:55.70	SIZ	—	13	37.333	116.448	0.2	A	88	1.30	0.40	HSF	—		—		—		2.1	HSF	—		—	
1969 27	11:46: 9.80	SIZ	—	10	37.332	116.445	0.3	A	114	1.20	0.90	HSF	—		—		—		1.4	HSF	—		—	
1969 27	20:57:39.40	SIZ	—	14	37.323	116.457	0.2	B	82	2.50	0.40	HSF	—		—		—		2.0	HSF	—		—	
1969 28	6:15:47.50	SIZ	—	11	37.283	116.507	0.2	A	101	0.90	0.20	HSF	—		—		—		1.8	HSF	—		—	
1969 28	10:22: 9.60	SIZ	—	7	37.280	116.457	0.3	B	119	4.50	0.20	HSF	—		—		—		0.1	HSF	—		—	
1969 28	13: 4:59.70	SIZ	—	5	37.310	116.472	—	D	119	3.50	—	HSF	—		—		—		0.7	HSF	—		—	
1969 28	20:22:50.10	SIZ	—	14	37.325	116.455	0.2	B	84	3.20	0.30	HSF	—		—		—		2.4	HSF	—		—	
1969 30	1:38: 6.30	SIZ	—	13	37.345	116.415	0.2	A	113	3.80	0.30	HSF	—		—		—		2.0	HSF	—		—	
1969 30	4:26:14.70	SIZ	—	9	37.337	116.413	0.3	A	112	3.90	0.40	HSF	—		—		—		1.0	HSF	—		—	
1969 30	4:40: 5.90	SIZ	—	11	37.235	116.513	0.3	B	162	4.30	0.20	HSF	—		—		—		0.9	HSF	—		—	
1969 30	10:56:33.10	SIZ	—	11	37.208	116.398	0.3	B	127	5.10	1.10	HSF	—		—		—		0.5	HSF	—		—	
1969 30	23:29:32.40	SIZ	—	12	37.293	116.443	0.1	A	79	4.20	0.20	HSF	—		—		—		1.6	HSF	—		—	
1969 OCT 1	0:52:46.80	SIZ	—	13	37.343	116.407	0.4	A	119	3.00	0.70	HSF	—		—		—		1.9	HSF	—		—	
1969 1	13:20:56.40	SIZ	—	5	37.272	116.463	—	D	122	1.80	—	HSF	—		—		—		0.4	HSF	—		—	
1969 1	13:43:39.80	SIZ	—	6	37.313	116.472	0.2	B	122	3.30	0.60	HSF	—		—		—		0.4	HSF	—		—	
1969 2	2:41:48.30	SIZ	—	8	37.212	116.515	0.4	B	191	5.20	0.60	HSF	—		—		—		—		—		—	
1969 2	7:12:52.20	SIZ	—	13	37.250	116.500	0.2	A	108	3.60	0.20	HSF	—		—		—		1.6	HSF	—		—	
1969 2	17: 2: 5.20	SIZ	—	6	37.207	116.485	0.5	B	190	3.70	0.50	HSF	—		—		—		0.4	HSF	—		—	
1969 2	23:59:19.00	SIZ	—	7	37.322	116.462	0.3	B	122	1.10	1.00	HSF	—		—		—		0.3	HSF	—		—	
1969 3	14: 9:51.60	SIZ	—	11	37.317	116.472	0.4	A	75	0.10	0.60	HSF	—		—		—		2.0	HSF	—		—	
1969 4	9:15: 7.40	SIZ	—	7	37.313	116.415	0.3	B	156	4.50	0.30	HSF	—		—		—		0.8	HSF	—		—	
1969 5	10:42:58.20	SIZ	—	6	37.290	116.472	0.3	B	198	4.30	0.20	HSF	—		—		—		0.1	HSF	—		—	
1969 7	9:27: 6.60	SIZ	—	11	37.207	116.490	0.3	B	122	2.80	0.40	HSF	—		—		—		1.4	HSF	—		—	
1969 7	15: 7:56.10	SIZ	—	13	37.315	116.452	0.2	A	92	3.30	0.30	HSF	—		—		—		1.7	HSF	—		—	
1969 8	1:22:54.10	SIZ	—	12	37.223	116.517	0.4	B	186	3.30	0.30	HSF	—		—		—		1.4	HSF	—		—	
1969 8	9:57: 7.60	SIZ	—	10	37.322	116.477	0.5	C	73	5.00*	—	HSF	—		—		—		1.3	HSF	—		—	
1969 8	15:55: 1.51		—	—	37.504	115.488	—	D	—	10.00*	—	PAS	—		—		3.7	PAS	—		—		—	
1969 9	4:50:45.00	SIZ	—	6	37.250	116.443	0.4	B	135	0.10	0.50	HSF	—		—		—		1.5	HSF	—		—	
1969 10	3:38: 1.40	SIZ	—	11	37.323	116.458	0.2	B	82	1.20	0.50	HSF	—		—		—		1.6	HSF	—		—	
1969 10	4:38:55.50	SIZ	—	11	37.280	116.438	0.2	A	74	2.40	0.20	HSF	—		—		—		1.6	HSF	—		—	
1969 10	17:50:17.80	SIZ	—	8	37.252	116.500	0.4	A	108	4.10	0.40	HSF	—		—		—		1.6	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 OCT 12	16:53:32.80	SIZ	—	7	37.255	116.437	0.1	B	113	0.30	0.10	HSF	—		—		—		1.8	HSF	—		—	
1969 12	20:27:26.50	SIZ	—	10	37.327	116.457	0.3	B	121	1.30	0.80	HSF	—		—		—		1.7	HSF	—		—	
1969 14	10:56: 2.10	SIZ	—	5	37.313	116.470	0.4	C	120	2.10*	—	HSF	—		—		—		0.4	HSF	—		—	
1969 14	23:57:18.60	SIZ	—	8	37.302	116.438	0.2	A	107	3.00	0.30	HSF	—		—		—		1.0	HSF	—		—	
1969 15	22:25:36.80	SIZ	—	11	37.313	116.470	0.3	A	74	3.40	0.40	HSF	—		—		—		1.8	HSF	—		—	
1969 16	2:26:44.90	SIZ	—	12	37.313	116.470	0.2	A	75	3.40	0.40	HSF	—		—		—		1.9	HSF	—		—	
1969 17	5:15: 9.20	SIZ	—	7	37.288	116.465	0.2	B	100	3.20	0.60	HSF	—		—		—		1.1	HSF	—		—	
1969 20	20:48:43.70	SIZ	—	7	37.295	116.470	0.2	B	96	2.80	1.50	HSF	—		—		—		0.4	HSF	—		—	
1969 21	9:40:53.40	SIZ	—	11	37.308	116.472	0.4	B	74	3.80	0.60	HSF	—		—		—		1.6	HSF	—		—	
1969 21	23:22:10.40	SIZ	—	9	37.322	116.405	0.2	B	139	4.00	0.20	HSF	—		—		—		0.6	HSF	—		—	
1969 21	23:37: 5.60	SIZ	—	7	37.253	116.442	0.3	B	103	0.40	0.30	HSF	—		—		—		0.5	HSF	—		—	
1969 22	17:58:38.40	SIZ	—	12	37.307	116.448	0.2	A	81	3.40	0.40	HSF	—		—		—		1.8	HSF	—		—	
1969 22	19:26: 7.80	SIZ	—	8	37.282	116.465	0.2	A	111	3.70	0.30	HSF	—		—		—		0.5	HSF	—		—	
1969 23	15: 8:23.40	SIZ	—	5	37.255	116.432	0.5	C	123	0.00*	—	HSF	—		—		—		0.9	HSF	—		—	
1969 23	21: 5:26.10	SIZ	—	5	37.322	116.473	—	D	117	0.80	—	HSF	—		—		—		0.6	HSF	—		—	
1969 23	22:55: 2.50	SIZ	—	5	37.270	116.457	—	D	167	4.10	—	HSF	—		—		—		0.1	HSF	—		—	
1969 25	6:10:36.50	SIZ	—	6	37.320	116.470	0.3	B	126	1.30	0.50	HSF	—		—		—		1.1	HSF	—		—	
1969 25	8:59:44.10	SIZ	—	8	37.225	116.500	0.4	B	151	4.30	0.40	HSF	—		—		—		0.2	HSF	—		—	
1969 25	9:54:30.70	SIZ	—	13	37.320	116.470	0.2	B	75	3.40	0.40	HSF	—		—		—		2.3	HSF	—		—	
1969 25	10:58: 1.90	SIZ	—	12	37.282	116.453	0.1	A	79	4.40	0.10	HSF	—		—		—		2.4	HSF	—		—	
1969 25	16:21:45.00	SIZ	—	6	37.282	116.450	0.5	B	101	4.00	0.60	HSF	—		—		—		0.1	HSF	—		—	
1969 26	0:21:47.60	SIZ	—	12	37.282	116.505	0.2	A	102	0.90	0.20	HSF	—		—		—		1.8	HSF	—		—	
1969 26	17:19:21.30	SIZ	—	12	37.212	116.513	0.3	B	190	4.20	0.30	HSF	—		—		—		1.2	HSF	—		—	
1969 26	23: 1:42.20	SIZ	—	12	37.283	116.453	0.1	A	72	4.50	0.10	HSF	—		—		—		2.2	HSF	—		—	
1969 26	23:13:21.50	SIZ	—	8	37.280	116.453	0.1	A	120	4.50	0.10	HSF	—		—		—		0.5	HSF	—		—	
1969 26	23:28:18.10	SIZ	—	13	37.283	116.455	0.1	A	71	4.70	0.10	HSF	—		—		—		2.4	HSF	—		—	
1969 26	23:31:46.40	SIZ	—	13	37.283	116.452	0.2	A	72	4.70	0.20	HSF	—		—		—		1.9	HSF	—		—	
1969 27	20:31:32.54		—	—	36.693	116.672	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1969 27	21:43:59.80		—	—	36.700	116.100	—	A	—	2.00*	—	BRP	—		—		—		—		—		—	
1969 28	2:32:11.19		—	—	37.166	117.966	—		—	8.00*	—	GDY	1	BRP	2.8	BRP	3.7	PAS	—		4.2	PDX	4.2	KKG
1969 28	11: 6: 0.60	SIZ	—	7	37.280	116.450	0.3	B	121	4.50	0.20	HSF	—		—		—		1.0	HSF	—		—	
1969 28	13:39: 0.20	SIZ	—	14	37.280	116.450	0.1	A	72	4.30	0.10	HSF	—		—		—		2.0	HSF	—		—	
1969 28	14:12:21.70	SIZ	—	8	37.258	116.457	0.2	A	75	2.10	0.40	HSF	—		—		—		0.1	HSF	—		—	
1969 28	14:18:47.40	SIZ	—	9	37.280	116.452	0.2	A	101	4.40	0.20	HSF	—		—		—		0.7	HSF	—		—	
1969 28	14:34:58.50	SIZ	—	14	37.282	116.448	0.1	A	72	4.20	0.10	HSF	—		—		2.8	PAS	2.7	HSF	3.1	PDX	3.1	GDY
1969 28	14:48:33.30	SIZ	—	6	37.282	116.453	0.4	B	135	4.90	0.30	HSF	—		—		—		—		—		—	
1969 28	17:50:17.50	SIZ	—	8	37.283	116.452	0.2	A	103	4.50	0.20	HSF	—		—		—		0.8	HSF	—		—	
1969 28	19:47: 8.90	SIZ	—	6	37.282	116.453	0.5	B	137	4.80	0.30	HSF	—		—		—		0.9	HSF	—		—	
1969 29	8: 5:13.90	SIZ	—	9	37.283	116.450	0.4	B	201	4.20	0.30	HSF	—		—		—		1.3	HSF	—		—	
1969 29	10:53:28.90	SIZ	—	5	37.328	116.482	0.4	C	143	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1969 29	12:25: 7.60	SIZ	—	6	37.260	116.460	0.3	B	135	3.80	0.70	HSF	—		—		—		0.8	HSF	—		—	
1969 29	20:41:15.50	SIZ	—	11	37.280	116.450	0.1	A	71	4.30	0.10	HSF	—		—		—		1.4	HSF	—		—	
1969 31	10:47:22.90	SIZ	—	11	37.323	116.465	0.5	B	79	3.30	0.90	HSF	—		—		—		1.8	HSF	—		—	
1969 NOV 2	3:35:50.45		—	7	38.329	116.221	—		—	5.00*	—	SHJ	—		—		—		1.5	SHJ	—		—	
1969 4	3: 1:58.80	SIZ	—	6	37.290	116.473	0.2	B	143	4.00	0.20	HSF	—		—		—		0.4	HSF	—		—	
1969 4	5:54:18.20	SIZ	—	5	37.302	116.477	0.6	C	116	3.00*	—	HSF	—		—		—		0.2	HSF	—		—	
1969 4	9:51:53.10	SIZ	—	6	37.253	116.438	0.4	B	108	0.20	0.40	HSF	—		—		—		0.1	HSF	—		—	
1969 5	18:58: 9.50	SIZ	—	10	37.255	116.438	0.3	A	101	0.30	0.40	HSF	—		—		—		1.9	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR	MN	SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 NOV 6	6	9	25.40	SIZ	—	12	37.325	116.462	0.4	B	92	1.00	1.00	HSF	—		—		—		2.0	HSF	—		—	
1969 8	6	58	2.36		—	—	37.151	114.978	—		—	8.00*	—	GDY	3	BRP	3.0	BRP	—		—		3.3	PDX	3.3	KKG
1969 8	8	37	27.90	SIZ	—	9	37.305	116.447	0.2	A	88	6.50	0.40	HSF	—		—		—		0.4	HSF	—		—	
1969 9	12	53	14.20	SIZ	—	5	37.333	116.428	1.0	D	247	3.00*	—	HSF	—		—		—		0.3	HSF	—		—	
1969 10	6	30	44.50	SIZ	—	5	37.237	116.525	0.6	D	181	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1969 11	20	27	31.80	SIZ	—	7	37.298	116.542	2.8	D	261	8.00*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 14	6	38	9.20	SIZ	—	6	37.202	116.553	1.2	D	291	4.70*	—	HSF	—		—		—		1.1	HSF	—		—	
1969 14	6	51	6.30	SIZ	—	6	37.215	116.523	7.0	D	282	4.70	2.70	HSF	—		—		—		0.5	HSF	—		—	
1969 14	7	17	17.80	SIZ	—	6	37.207	116.523	2.0	C	280	6.30	2.10	HSF	—		—		—		1.2	HSF	—		—	
1969 14	8	45	39.56		—	—	35.944	117.558	—	C	—	10.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1969 14	12	51	5.30	SIZ	—	7	37.205	116.557	2.4	D	293	6.50*	—	HSF	—		—		—		1.8	HSF	—		—	
1969 14	13	39	23.20	SIZ	—	6	37.202	116.555	2.4	D	291	5.00*	—	HSF	—		—		—		1.0	HSF	—		—	
1969 14	15	58	15.70	SIZ	—	7	37.203	116.547	1.1	D	289	4.90*	—	HSF	—		—		—		1.4	HSF	—		—	
1969 15	8	12	15.10	SIZ	—	4	37.208	116.542	—	D	287	5.80*	—	HSF	—		—		—		0.5	HSF	—		—	
1969 15	9	45	12.00	SIZ	—	5	37.242	116.490	0.7	D	269	5.10*	—	HSF	—		—		—		0.5	HSF	—		—	
1969 16	7	23	59.27		—	—	35.815	117.637	—	B	—	10.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1969 17	6	28	32.87		—	—	36.174	117.366	—	B	—	10.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1969 17	8	3	35.70	SIZ	—	6	37.198	116.532	2.7	D	282	3.30	1.00	HSF	—		—		—		0.7	HSF	—		—	
1969 17	17	27	57.40		—	6	37.182	116.630	1.5	D	308	1.20*	—	HSF	—		—		—		0.6	HSF	—		—	
1969 19	13	3	11.20	SIZ	—	5	37.197	116.522	3.9	D	278	0.80*	—	HSF	—		—		—		0.1	HSF	—		—	
1969 19	14	9	5.80	SIZ	—	5	37.195	116.520	2.5	D	277	3.00*	—	HSF	—		—		—		0.4	HSF	—		—	
1969 20	13	50	24.50	SIZ	—	6	37.200	116.508	3.3	D	271	3.00*	—	HSF	—		—		—		1.0	HSF	—		—	
1969 21	12	21	11.20	SIZ	—	9	37.205	116.580	0.5	B	117	3.80	0.80	HSF	—		—		—		1.3	HSF	—		—	
1969 21	19	31	42.70	SIZ	—	8	37.143	116.505	0.1	B	167	3.50	0.20	HSF	—		—		—		1.3	HSF	—		—	
1969 23	5	43	3.40	SIZ	—	7	37.282	116.453	0.4	B	101	4.60	0.30	HSF	—		—		—		0.6	HSF	—		—	
1969 25	19	6	20.15		—	—	35.987	117.629	—	B	—	10.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1969 30	12	28	21.50	SIZ	—	10	37.210	116.397	0.2	B	123	4.80	0.20	HSF	—		—		—		1.1	HSF	—		—	
1969 DEC 1	6	41	22.27		—	—	35.909	117.604	—	B	—	10.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1969 4	13	44	43.04		—	—	35.942	117.576	—	B	—	10.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1969 6	23	19	58.68		—	—	35.940	117.902	—	B	—	10.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1969 7	0	36	43.24		—	—	35.919	117.896	—	C	—	10.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1969 7	14	57	13.70	SIZ	—	5	37.315	116.472	0.4	C	123	1.40*	—	HSF	—		—		—		0.4	HSF	—		—	
1969 7	22	24	12.00	SIZ	—	10	37.210	116.393	0.2	B	82	4.50	0.30	HSF	—		—		—		0.6	HSF	—		—	
1969 8	2	26	25.53		—	—	37.142	116.961	—		—	8.00*	—	GDY	—		—		3.6	BRK	—		—		3.5	PAS
1969 8	9	41	16.80	SIZ	—	5	37.322	116.465	0.1	C	125	4.20*	—	HSF	—		—		—		0.7	HSF	—		—	
1969 8	18	40	28.60	SIZ	—	7	37.212	116.393	0.5	B	118	5.00	0.40	HSF	—		—		—		0.5	HSF	—		—	
1969 9	6	41	21.40	SIZ	—	9	37.210	116.513	0.3	B	191	4.80	0.20	HSF	—		—		—		1.0	HSF	—		—	
1969 9	20	22	17.80	SIZ	—	8	37.315	116.472	0.3	B	124	1.60	0.40	HSF	—		—		—		1.4	HSF	—		—	
1969 10	8	5	53.90	SIZ	—	7	37.243	116.515	0.6	B	172	4.80	0.60	HSF	—		—		—		0.7	HSF	—		—	
1969 10	15	30	1.88	SIZ	—	—	37.148	116.010	—		—	8.00*	—	GDY	—		—		—		—		—		4.6	GDY
1969 12	5	3	48.40	SIZ	—	8	37.255	116.515	0.3	A	95	4.80	0.30	HSF	—		—		—		1.2	HSF	—		—	
1969 12	12	55	30.90	SIZ	—	9	37.313	116.462	0.6	A	116	4.70	0.60	HSF	—		—		—		1.4	HSF	—		—	
1969 12	14	49	45.20	SIZ	—	5	37.228	116.482	1.2	D	235	0.50*	—	HSF	—		—		—		0.8	HSF	—		—	
1969 12	15	53	21.30	SIZ	—	6	37.315	116.468	0.4	C	122	2.50*	—	HSF	—		—		—		0.8	HSF	—		—	
1969 15	2	34	48.10	SIZ	—	9	37.325	116.460	0.3	B	87	2.90	0.80	HSF	—		—		—		1.6	HSF	—		—	
1969 15	14	43	4.60	SIZ	—	5	37.280	116.465	0.1	D	185	3.10*	—	HSF	—		—		—		0.1	HSF	—		—	
1969 15	23	46	19.20	SIZ	—	8	37.247	116.520	0.2	B	173	4.30	0.20	HSF	—		—		—		0.1	HSF	—		—	
1969 16	1	45	4.30	SIZ	—	12	37.317	116.472	0.4	B	75	3.80	0.50	HSF	—		—		—		1.7	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1969 DEC 16	17:37:57.00		—	6	36.400	117.900	—		—	—	—	BRK	—		1.8	BRP	3.0	BRK	—		—		—	
1969 17	12:23:57.90	SIZ	—	6	37.313	116.472	0.3	C	104	2.70*	—	HSF	—		—		—		0.4	HSF	—		—	
1969 17	15:47:53.00	CSNL	—	16	37.000	116.000	—		—	—	—	ISC	—		—		—		—		4.3	ISC	—	
1969 17	22:37: 5.90	SIZ	—	7	37.313	116.470	0.4	C	92	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1969 18	22:33:38.80	SIZ	—	12	37.212	116.513	0.4	B	191	4.50	0.30	HSF	—		—		—		2.3	HSF	—		—	
1969 18	22:36:17.30	SIZ	—	13	37.208	116.513	0.4	B	192	4.70	0.30	HSF	—		—		—		2.2	HSF	—		—	
1969 19	5:36:59.60	SIZ	—	14	37.213	116.512	0.2	A	118	4.40	0.20	HSF	—		—		—		1.8	HSF	—		—	
1969 19	5:53:56.50	SIZ	—	14	37.212	116.513	0.2	A	119	4.40	0.20	HSF	—		—		—		1.8	HSF	—		—	
1969 19	6:23:58.10	SIZ	—	13	37.220	116.502	0.4	A	115	4.50	0.40	HSF	—		—		—		1.9	HSF	—		—	
1969 19	10:49:20.90	SIZ	—	9	37.218	116.505	0.5	B	114	6.70*	—	HSF	—		—		—		0.2	HSF	—		—	
1969 20	12:42:51.10	SIZ	—	6	37.293	116.455	0.7	C	127	2.50*	—	HSF	—		—		—		0.2	HSF	—		—	
1969 22	7:32: 0.80	SIZ	—	8	37.225	116.515	0.3	B	184	4.80	0.20	HSF	—		—		—		0.7	HSF	—		—	
1969 25	8:44:27.00	SIZ	—	11	37.167	116.312	0.5	B	131	4.00	0.70	HSF	—		—		—		1.2	HSF	—		—	
1969 25	11:41:19.10	SIZ	—	6	37.282	116.435	0.4	B	126	4.50	0.50	HSF	—		—		—		0.4	HSF	—		—	
1969 30	12:23:26.60	SIZ	—	9	37.250	116.517	0.4	A	96	4.80	0.50	HSF	—		—		—		1.1	HSF	—		—	
1969 31	0:22:54.10	SIZ	—	5	37.323	116.460	0.6	C	147	4.00*	—	HSF	—		—		—		1.2	HSF	—		—	
1969 31	7:27:35.60	SIZ	—	13	37.252	116.515	0.1	A	69	5.10	0.40	HSF	—		—		—		1.5	HSF	—		—	
1969 31	18:13:27.10	SIZ	—	10	37.208	116.515	0.4	C	121	3.80*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 JAN 1	16:44:24.70	SIZ	—	6	37.263	116.433	0.8	C	123	7.70*	—	HSF	—		—		—		1.0	HSF	—		—	
1970 1	22:47:55.20	SIZ	—	12	37.255	116.502	0.2	A	111	4.10	0.20	HSF	—		—		—		1.9	HSF	—		—	
1970 2	5: 6:43.50	SIZ	—	9	37.257	116.502	0.2	A	107	3.90	0.30	HSF	—		—		—		1.5	HSF	—		—	
1970 2	7: 8:15.80	SIZ	—	11	37.295	116.400	0.1	A	96	5.70	0.30	HSF	—		—		—		1.4	HSF	—		—	
1970 2	20: 1:31.60		0.69	13	37.418	114.963	—		—	—	—	RYN	—		—		4.0	RYN	—		—		—	
1970 2	21:47:56.04		—	—	35.744	117.849	—	C	—	10.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1970 3	19:33:17.30	SIZ	—	7	37.267	116.472	0.2	B	135	3.50	0.70	HSF	—		—		—		1.0	HSF	—		—	
1970 4	10:52: 3.10	SIZ	—	9	37.253	116.513	0.5	B	95	5.20	0.70	HSF	—		—		—		0.7	HSF	—		—	
1970 4	11:44:22.90	SIZ	—	8	37.250	116.515	0.4	B	139	5.00	0.30	HSF	—		—		—		0.4	HSF	—		—	
1970 4	19: 5: 4.30	SIZ	—	7	37.312	116.468	0.4	B	91	3.80	0.60	HSF	—		—		—		1.4	HSF	—		—	
1970 5	6:36:47.20	SIZ	—	5	37.267	116.518	0.9	C	171	4.30*	—	HSF	—		—		—		0.6	HSF	—		—	
1970 5	9:58: 9.40	SIZ	—	11	37.252	116.515	0.2	A	69	4.80	0.20	HSF	—		—		—		1.7	HSF	—		—	
1970 5	12: 1:51.90	SIZ	—	11	37.228	116.513	0.3	A	109	4.70	0.30	HSF	—		—		—		1.6	HSF	—		—	
1970 5	14:25:34.40	SIZ	—	8	37.227	116.510	0.2	C	110	5.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 5	16:23:49.40	SIZ	—	6	37.252	116.517	0.5	C	166	4.80*	—	HSF	—		—		—		0.7	HSF	—		—	
1970 5	16:38:47.20	SIZ	—	13	37.227	116.512	0.2	A	110	4.70	0.20	HSF	—		—		—		1.5	HSF	—		—	
1970 7	3:25:26.92		—	—	35.711	117.675	—	C	—	10.00*	—	PAS	—		1.1	BRP	2.4	PAS	—		—		—	
1970 8	2:33:16.60	SIZ	—	14	37.237	116.492	0.1	A	93	3.70	0.10	HSF	—		—		—		2.0	HSF	—		—	
1970 8	8: 0:29.00	SIZ	—	13	37.252	116.515	0.2	A	69	4.70	0.20	HSF	—		—		—		2.4	HSF	—		—	
1970 8	9: 0:58.90	SIZ	—	5	37.252	116.518	0.3	D	192	4.60*	—	HSF	—		—		—		0.3	HSF	—		—	
1970 10	19:57:52.20	SIZ	—	13	37.252	116.515	0.2	A	69	5.30	0.40	HSF	—		—		—		1.1	HSF	—		—	
1970 11	15:52:15.40	SIZ	—	11	37.203	116.500	0.3	B	124	2.80	0.60	HSF	—		—		—		1.4	HSF	—		—	
1970 12	11:24:10.30		—	11	37.043	116.423	0.8	C	240	9.80	1.70	HSF	—		—		—		1.4	HSF	—		—	
1970 12	19: 4:15.09		—	—	35.858	117.641	—	A	—	10.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		—	
1970 13	5: 0: 9.50	SIZ	—	7	37.212	116.577	0.4	C	144	5.00*	—	HSF	—		—		—		0.4	HSF	—		—	
1970 13	5:41:19.40	SIZ	—	6	37.212	116.580	0.6	C	156	5.00*	—	HSF	—		—		—		0.3	HSF	—		—	
1970 13	11:23:15.50	SIZ	—	7	37.213	116.582	0.6	C	142	5.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 14	9:35:26.90	SIZ	—	6	37.265	116.455	0.3	B	117	3.50	0.90	HSF	—		—		—		0.8	HSF	—		—	
1970 15	2:40:27.20	SIZ	—	12	37.252	116.518	0.1	A	71	4.70	0.10	HSF	—		—		—		1.0	HSF	—		—	
1970 15	2:46: 8.00	SIZ	—	13	37.253	116.515	0.2	A	69	5.30	0.50	HSF	—		—		—		1.5	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 JAN 15	3:10:50.40	SIZ	—	13	37.228	116.513	0.1	A	109	4.80	0.10	HSF	—		—		—		1.8	HSF	—		—	
1970 20	0:31:33.30	SIZ	—	6	37.215	116.588	1.5	C	149	5.60	8.00	HSF	—		—		—		0.4	HSF	—		—	
1970 20	0:32: 2.20	SIZ	—	6	37.215	116.580	0.2	B	148	4.10	0.30	HSF	—		—		—		0.2	HSF	—		—	
1970 20	1:10: 9.70	SIZ	—	9	37.212	116.578	0.3	B	113	4.00	0.40	HSF	—		—		—		1.4	HSF	—		—	
1970 20	1:57: 5.90	SIZ	—	11	37.210	116.577	0.3	C	148	5.10*	—	HSF	—		—		—		1.3	HSF	—		—	
1970 21	3:47:13.60	SIZ	—	8	37.257	116.442	0.3	B	145	0.00	0.30	HSF	—		—		—		1.6	HSF	—		—	
1970 24	2:29:53.50	SIZ	—	9	37.230	116.473	0.3	B	123	1.60	0.30	HSF	—		—		—		0.8	HSF	—		—	
1970 25	9:24:22.80	SIZ	—	7	37.252	116.515	0.3	B	134	5.30	0.70	HSF	—		—		—		0.6	HSF	—		—	
1970 26	10:58:32.30		0.08	5	37.506	115.136	—		—	—	—	RYN	—		—		—		—		—		—	
1970 30	17: 9:55.00	CSNL	—	13	36.900	116.000	—		—	—	—	ISC	—		—		—		—		—		3.7	ISC
1970 30	17:47:29.80		—	9	37.192	116.590	0.4	C	235	2.70	0.60	HSF	—		—		—		1.2	HSF	—		—	
1970 31	6:42:27.50	SIZ	—	6	37.223	116.500	0.6	B	166	3.90	0.70	HSF	—		—		—		1.2	HSF	—		—	
1970 FEB 3	10:29:23.71		—	—	36.134	117.686	—	A	—	10.00*	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		—	
1970 3	10:41:26.10	SIZ	—	8	37.315	116.443	0.1	B	148	7.80	0.30	HSF	—		—		—		1.3	HSF	—		—	
1970 4	17:30:47.00	CSNL	—	11	36.900	116.000	—		—	—	—	ISC	—		—		—		—		—		3.9	ISC
1970 4	18: 7:20.00	CSNL	—	13	37.700	116.800	—		—	33.00*	—	ISC	—		—		—		—		—		4.4	ISC
1970 4	19:31:46.90	SIZ	—	9	37.200	116.488	0.3	B	203	2.60	0.40	HSF	—		—		—		1.8	HSF	—		—	
1970 5	4:35:57.70	SIZ	—	8	37.262	116.493	0.3	B	126	3.30	0.40	HSF	—		—		—		1.0	HSF	—		—	
1970 5	19:37: 4.00	CPDX	—	19	37.164	116.039	—		—	—	—	PDX	5	BRP	4.0	BRP	—		—		4.3	PDX	—	
1970 6	20: 2:48.63		—	4	38.476	116.074	—		—	12.20	—	SHJ	—		—		—		1.0	SHJ	—		—	
1970 7	10:50:17.20	SIZ	—	5	37.303	116.390	1.2	C	132	7.50*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 8	15:56:26.60		0.77	8	37.317	115.402	—		—	—	—	RYN	—		—		3.5	RYN	—		—		—	
1970 10	16:39:54.20	SIZ	—	5	37.248	116.497	1.1	C	142	3.00*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 10	20:28:31.02		—	7	38.487	116.620	—		—	5.00*	—	SHJ	—		—		—		1.0	SHJ	—		—	
1970 12	13:23:57.12	SIZ	—	—	36.842	115.971	—	C	—	10.00*	—	PAS	—		—		2.6	PAS	—		—		—	
1970 12	19:17:23.50	SIZ	—	7	37.318	116.477	0.2	B	103	2.50	1.80	HSF	—		—		—		1.8	HSF	—		—	
1970 13	12:30:13.10		0.29	7	38.411	117.906	—		—	—	—	RYN	—		—		3.1	RYN	—		—		—	
1970 13	17:40:22.70	SIZ	—	8	37.200	116.483	0.2	B	196	2.00	0.20	HSF	—		—		—		2.0	HSF	—		—	
1970 15	5:10:10.80	SIZ	—	5	37.255	116.490	0.1	C	125	3.50*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 15	7:20:11.30	SIZ	—	9	37.142	116.492	0.4	C	239	2.90	0.30	HSF	—		—		—		1.1	HSF	—		—	
1970 15	14:32:33.20	SIZ	—	5	37.215	116.563	1.1	D	270	3.90*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 15	15:14:23.61		—	3	38.478	116.229	—		—	5.00*	—	SHJ	—		—		—		0.7	SHJ	—		—	
1970 16	13:51: 3.40	SIZ	—	6	37.278	116.447	0.5	B	120	3.10	0.60	HSF	—		—		—		0.8	HSF	—		—	
1970 17	12:18: 0.90	SIZ	—	6	37.205	116.527	2.4	C	244	3.80	1.90	HSF	—		—		—		—		—		—	
1970 18	22:16: 4.30	SIZ	—	8	37.142	116.492	0.5	C	239	2.10	1.10	HSF	—		—		—		2.0	HSF	—		—	
1970 18	22:16:40.40		—	6	37.095	116.657	6.8	D	300	0.60*	—	HSF	—		—		—		2.2	HSF	—		—	
1970 19	9:46:38.80	SIZ	—	8	37.315	116.465	0.3	B	141	2.80	0.60	HSF	—		—		—		1.8	HSF	—		—	
1970 20	19:56: 0.40		—	9	37.198	116.592	0.4	D	251	0.70*	—	HSF	—		—		—		1.5	HSF	—		—	
1970 21	4:16:40.60	SIZ	—	10	37.145	116.488	0.5	C	237	1.10	1.60	HSF	—		—		—		2.1	HSF	—		—	
1970 23	9: 5: 5.50	SIZ	—	5	37.178	116.468	0.2	D	203	3.50*	—	HSF	—		—		—		0.3	HSF	—		—	
1970 24	5:58:30.50	SIZ	—	3	37.263	116.460	—	D	143	3.00*	—	HSF	—		—		—		0.4	HSF	—		—	
1970 24	6:50: 3.00	SIZ	—	9	37.227	116.510	0.3	B	216	4.70	0.20	HSF	—		—		—		1.9	HSF	—		—	
1970 26	17:43: 4.90	CSNL	—	12	37.580	116.110	—		—	—	—	ISC	—		—		—		—		—		3.9	ISC
1970 27	0:13:58.56	SIZ	—	—	37.022	116.096	—		—	8.00*	—	GDY	—		—		—		—		—		3.5	GDY
1970 27	3:21: 7.60	SIZ	—	5	37.210	116.578	1.1	D	262	1.90*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 27	10: 6:46.90	SIZ	—	9	37.255	116.515	0.2	B	133	5.20	0.30	HSF	—		—		—		0.5	HSF	—		—	
1970 27	18:12:40.40		—	8	37.193	116.590	0.5	D	234	0.60*	—	HSF	—		—		—		1.8	HSF	—		—	
1970 MAR 1	5:44:22.90		—	—	36.333	117.416	—		—	8.00	—	PDX	—		—		2.9	PDX	—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MO	REF	mb	REF	OTH	REF
1970 MAR 2	4:56:60.00	SIZ	—	5	37.283	116.535	0.8	D	279	4.40*	—	HSF	—		—		—		1.4	HSF	—		—	
1970 4	18:10:52.60	SIZ	—	8	37.250	116.513	0.3	B	190	4.60	0.20	HSF	—		—		—		1.6	HSF	—		—	
1970 5	7:47:58.40		—	5	37.197	116.607	1.3	D	285	2.20*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 6	7:20:46.90	SIZ	—	8	37.207	116.492	0.4	B	121	1.30	0.70	HSF	—		—		—		0.5	HSF	—		—	
1970 6	9:27:11.00	SIZ	—	7	37.202	116.582	0.9	C	163	1.00	6.20	HSF	—		—		—		0.6	HSF	—		—	
1970 7	1:31: 7.98		—	4	37.481	117.962	—		—	3.00*	—	PHM	—		—		—		0.5	PHM	—		—	
1970 8	5:11:30.40		—	4	37.673	116.455	—	D	267	3.20	—	HSF	—		—		—		0.4	HSF	—		—	
1970 8	18:15:56.00	SIZ	—	6	37.240	116.545	1.7	C	226	4.20	1.10	HSF	—		—		—		0.3	HSF	—		—	
1970 9	2:40:34.90		—	4	37.068	116.457	—	D	270	3.00*	—	HSF	—		—		—		—		—		—	
1970 9	3:14: 8.16		—	5	37.479	117.958	—		—	5.80	—	PHM	—		—		—		—		—		—	
1970 9	20:21:32.48		—	5	37.545	117.891	—		—	3.00*	—	PHM	—		—		—		0.9	PHM	—		—	
1970 10	4:54:28.89		—	4	37.493	117.983	—		—	3.00*	—	PHM	—		—		—		0.4	PHM	—		—	
1970 11	8:24:57.04		—	4	37.493	117.979	—		—	3.00*	—	PHM	—		—		—		0.7	PHM	—		—	
1970 13	4:41: 5.80		—	4	37.486	117.982	—		—	3.00*	—	PHM	—		—		—		0.5	PHM	—		—	
1970 14	18:37:34.66		—	4	37.495	117.971	—		—	3.00*	—	PHM	—		—		—		—		—		—	
1970 14	20:59:34.00		—	7	37.420	117.850	—		—	—	—	BRK	—		1.8	BRP	3.0	BRK	—		—		—	
1970 15	17:32:44.25		—	4	37.262	117.691	—		—	3.00*	—	PHM	—		—		—		0.4	PHM	—		—	
1970 16	3:24:21.80	SIZ	—	9	37.220	116.488	0.3	A	113	1.60	0.50	HSF	—		—		—		1.4	HSF	—		—	
1970 16	4:47:29.80	SIZ	—	13	37.220	116.490	0.2	A	113	1.30	0.40	HSF	—		—		—		1.8	HSF	—		—	
1970 16	8:18:48.50	SIZ	—	8	37.202	116.493	0.7	B	212	2.70	0.80	HSF	—		—		—		0.4	HSF	—		—	
1970 17	11: 6:24.66		—	3	37.505	117.996	—		—	6.60	—	PHM	—		—		—		0.9	PHM	—		—	
1970 19	11:18:46.90	SIZ	—	8	37.285	116.533	0.5	A	106	3.70	0.90	HSF	—		—		—		0.1	HSF	—		—	
1970 19	16:29:19.95	CSNL	—	—	36.838	116.254	—	C	—	8.00*	—	PAS	—		—		3.7	PAS	—		—		—	
1970 19	17:31:44.30	SIZ	—	9	37.285	116.455	0.3	B	147	1.70	0.30	HSF	—		—		—		—		—		—	
1970 20	11:22:13.00		—	4	36.930	117.980	—		—	—	—	BRK	1	BRP	2.0	BRP	3.1	BRK	—		—		—	
1970 20	16:47:57.22		—	—	35.791	117.667	—	B	—	10.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1970 21	7:57:29.01		—	5	37.486	117.974	—		—	6.50	—	PHM	—		—		—		0.4	PHM	—		—	
1970 21	8:53:30.10	SIZ	—	12	37.227	116.507	0.3	A	78	3.20	0.50	HSF	—		—		—		0.6	HSF	—		—	
1970 21	9: 4:44.39		—	4	37.480	117.954	—		—	4.40	—	PHM	—		—		—		—		—		—	
1970 21	10:35:11.10	SIZ	—	11	37.198	116.485	0.4	B	147	2.00	0.50	HSF	—		—		—		0.4	HSF	—		—	
1970 21	18:35:50.60	SIZ	—	7	37.290	116.407	0.8	B	150	0.50	0.70	HSF	—		—		—		1.3	HSF	—		—	
1970 22	0: 3: 7.40	SIZ	—	13	37.200	116.482	0.2	A	86	1.60	0.50	HSF	—		—		—		1.6	HSF	—		—	
1970 22	4:15: 6.90	SIZ	—	16	37.255	116.515	0.2	A	69	5.10	0.50	HSF	—		—		—		1.1	HSF	—		—	
1970 22	10: 2:21.80	SIZ	—	14	37.255	116.515	0.2	A	69	5.30	0.60	HSF	—		—		—		1.9	HSF	—		—	
1970 23	19:52:11.90		—	—	37.711	115.987	—		—	8.00*	—	GOY	5	BRP	4.0	BRP	4.0	PAS	—		4.3	PDX	4.3	KKG
1970 24	1:15:31.70	SIZ	0.61	5	37.233	116.155	—		—	—	—	RYN	—		—		4.5	RYN	—		—		—	
1970 24	7:55:55.48		—	4	37.459	117.917	—		—	5.80	—	PHM	—		—		—		—		—		—	
1970 25	1:40:54.60	SIZ	—	17	37.268	116.452	0.2	A	50	2.60	0.40	HSF	—		—		—		1.5	HSF	—		—	
1970 25	6:31:54.34		—	5	37.484	117.964	—		—	3.00*	—	PHM	—		—		—		—		—		—	
1970 25	15:38:54.00	SIZ	—	8	37.283	116.435	1.0	C	246	6.10	1.50	HSF	—		—		—		0.1	HSF	—		—	
1970 26	19:24:41.00	SIZ	—	7	37.285	116.587	1.0	C	120	0.60*	—	HSF	—		—		—		2.7	HSF	—		—	
1970 26	20: 9:32.20	SIZ	—	9	37.218	116.503	0.3	A	81	2.80	0.40	HSF	—		—		—		2.3	HSF	—		—	
1970 26	20:19:33.90	SIZ	—	12	37.298	116.535	0.1	A	66	1.40	0.30	HSF	—		—		—		2.0	HSF	—		—	
1970 26	20:23:51.30	SIZ	—	13	37.305	116.535	0.2	A	60	1.70	0.40	HSF	—		—		—		2.1	HSF	—		—	
1970 26	20:31:57.70	SIZ	—	7	37.287	116.535	0.7	C	194	1.30	2.30	HSF	—		—		—		0.3	HSF	—		—	
1970 27	0:14:38.50		1.64	7	37.577	116.793	—		—	—	—	RYN	—		—		3.4	RYN	—		—		—	
1970 27	5:51:16.00		1.52	13	37.532	116.753	—		—	—	—	RYN	—		—		3.8	RYN	—		—		4.0	PAS
1970 27	7:44:58.40	SIZ	—	8	37.295	116.562	0.4	B	134	3.00	0.70	HSF	—		—		—		2.7	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 MAR 27	9:38: 7.80	SIZ	—	8	37.277	116.533	0.2	B	132	1.60	0.40	HSF	—		—		—		2.8	HSF	—		—	
1970 27	14:23: 0.00	SIZ	—	—	37.300	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1970 27	14:58:48.50	SIZ	—	7	37.292	116.560	1.2	C	211	4.80*	—	HSF	—		—		—		2.3	HSF	—		—	
1970 27	15:45: 5.50	SIZ	—	10	37.307	116.547	0.3	A	72	3.60	0.50	HSF	—		—		3.8	RYN	2.8	HSF	—		—	
1970 27	16: 3: 0.00	SIZ	—	—	37.300	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1970 27	16:14:42.00		—	6	36.900	116.600	—		—	—	—	ISC	—		—		—		—		—		3.4	ISC
1970 27	16:42:18.80		—	—	37.503	116.456	—		—	8.00*	—	GDY	—		—		—		3.8	HSF	—		4.1	GDY
1970 27	16:50: 0.00	SIZ	—	—	37.300	116.500	—		—	0.00*	—	HSF*	—		—		—		3.1	HSF	—		—	
1970 27	17: 7: 0.00	SIZ	—	—	37.300	116.500	—		—	0.00*	—	HSF*	—		—		—		3.0	HSF	—		—	
1970 27	18: 8:25.70	SIZ	—	—	37.235	116.609	—		—	8.00*	—	GDY	—		—		—		3.8	HSF	—		4.2	GDY
1970 27	18:18:32.63	SIZ	—	—	37.243	116.593	—		—	8.00*	—	GDY	—		—		—		3.8	HSF	—		4.9	GDY
1970 27	18:33:26.30		0.45	10	36.623	116.115	—		—	—	—	RYN	—		—		4.0	RYN	—		—		—	
1970 27	18:33:30.00	SIZ	—	11	37.310	116.543	0.2	A	62	4.00	0.40	HSF	—		—		—		2.7	HSF	—		—	
1970 27	19:41:10.50	SIZ	—	6	37.307	116.547	0.2	B	115	4.70	0.10	HSF	—		—		—		1.1	HSF	—		—	
1970 27	19:48:30.40	SIZ	—	10	37.295	116.550	0.4	A	83	1.70	0.90	HSF	—		—		—		1.8	HSF	—		—	
1970 27	20:11:11.50	SIZ	—	14	37.283	116.575	0.2	A	101	2.90	0.20	HSF	—		—		—		1.5	HSF	—		—	
1970 27	21: 9: 9.00	SIZ	—	11	37.297	116.547	0.2	A	81	3.00	0.50	HSF	—		—		—		1.1	HSF	—		—	
1970 27	21:44: 8.10	SIZ	—	10	37.287	116.567	0.3	A	71	0.60	0.40	HSF	—		—		—		1.2	HSF	—		—	
1970 28	0: 4: 4.00	SIZ	—	13	37.293	116.542	0.2	A	89	0.60	0.20	HSF	—		—		—		1.5	HSF	—		—	
1970 28	0:17:58.20	SIZ	—	18	37.302	116.550	0.1	A	59	2.90	0.20	HSF	—		—		—		2.3	HSF	—		—	
1970 28	0:42:21.10	SIZ	—	13	37.283	116.545	0.2	A	108	2.70	0.40	HSF	—		—		—		0.7	HSF	—		—	
1970 28	1:25:10.80	SIZ	—	14	37.310	116.542	0.2	A	60	3.80	0.20	HSF	—		—		—		1.3	HSF	—		—	
1970 28	1:29:44.50	SIZ	—	18	37.278	116.607	0.2	A	73	1.30	0.90	HSF	—		—		—		1.7	HSF	—		—	
1970 28	1:36: 2.00	SIZ	—	20	37.310	116.547	0.2	A	59	3.90	0.20	HSF	—		—		—		1.5	HSF	—		—	
1970 28	2: 5:41.30	SIZ	—	13	37.295	116.543	0.3	A	80	3.10	0.60	HSF	—		—		—		0.9	HSF	—		—	
1970 28	2:57: 0.40	SIZ	—	9	37.282	116.598	0.4	B	166	2.20	0.40	HSF	—		—		—		1.0	HSF	—		—	
1970 28	3:33:16.80	SIZ	—	12	37.277	116.550	0.3	A	116	4.40	0.30	HSF	—		—		—		—		—		—	
1970 28	4:14:19.10	SIZ	—	14	37.277	116.548	0.2	A	116	4.80	0.20	HSF	—		—		—		—		—		—	
1970 28	4:25:48.30	SIZ	—	20	37.265	116.580	0.2	A	65	2.00	0.20	HSF	—		—		—		1.7	HSF	—		—	
1970 28	4:29:54.10	SIZ	—	20	37.307	116.545	0.1	A	58	3.70	0.20	HSF	—		—		—		2.7	HSF	—		—	
1970 28	4:44:49.30	SIZ	—	20	37.283	116.548	0.1	A	57	3.10	0.20	HSF	—		—		—		2.3	HSF	—		—	
1970 28	4:46:48.90	SIZ	—	14	37.283	116.548	0.2	A	108	3.30	0.30	HSF	—		—		—		0.7	HSF	—		—	
1970 28	5: 3:13.10	SIZ	—	20	37.310	116.545	0.2	A	57	3.50	0.30	HSF	—		—		—		1.9	HSF	—		—	
1970 28	5: 6:29.89		—	—	35.954	117.785	—	A	—	10.00*	—	PAS	—		1.1	BRP	2.4	PAS	—		—		—	
1970 28	5:18:59.60	SIZ	—	19	37.310	116.547	0.2	B	57	3.70	0.30	HSF	—		—		—		2.2	HSF	—		—	
1970 28	5:31:19.90	SIZ	—	18	37.307	116.547	0.2	A	67	3.50	0.20	HSF	—		—		—		2.1	HSF	—		—	
1970 28	5:39:50.40	SIZ	—	11	37.275	116.597	0.3	B	126	2.40	0.40	HSF	—		—		—		0.7	HSF	—		—	
1970 28	6:37:53.30	SIZ	—	19	37.302	116.567	0.1	A	62	1.80	0.10	HSF	—		—		—		2.4	HSF	—		—	
1970 28	6:42:55.30	SIZ	—	12	37.277	116.553	0.3	B	130	2.80	0.60	HSF	—		—		—		0.6	HSF	—		—	
1970 28	7:10:42.70	SIZ	—	18	37.297	116.573	0.1	A	62	2.70	0.20	HSF	—		—		—		1.9	HSF	—		—	
1970 28	7:40:49.90	SIZ	—	17	37.308	116.547	0.3	A	60	3.60	0.40	HSF	—		—		—		1.3	HSF	—		—	
1970 28	8:32:10.50	SIZ	—	11	37.297	116.572	0.3	B	145	2.70	0.40	HSF	—		—		—		0.2	HSF	—		—	
1970 28	10:35:29.80	SIZ	—	16	37.290	116.475	0.3	A	87	4.40	0.30	HSF	—		—		—		0.7	HSF	—		—	
1970 28	11:23:57.40	SIZ	—	20	37.200	116.585	0.2	B	96	3.40	0.30	HSF	—		—		—		1.9	HSF	—		—	
1970 28	11:27:42.40	SIZ	—	18	37.308	116.547	0.2	A	65	3.80	0.20	HSF	—		—		—		1.4	HSF	—		—	
1970 28	14: 3:14.20	SIZ	—	19	37.275	116.548	0.2	A	60	4.60	0.20	HSF	—		—		—		1.1	HSF	—		—	
1970 28	14: 6:48.50	SIZ	—	12	37.327	116.450	0.3	B	122	1.10	1.00	HSF	—		—		—		1.5	HSF	—		—	
1970 28	14:54:31.90	SIZ	—	20	37.285	116.543	0.1	A	57	2.90	0.20	HSF	—		—		—		1.9	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE	ORIGIN TIME	HYPOCENTER											INTENSITY		MAGNITUDE									
(UTC)	HR MN SEC	FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	I	REF	MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 MAR 28	15: 9:22.30	SIZ	—	8	37.313	116.543	0.3	B	121	2.90	0.70	HSF	—		—		—		—		—		—	
1970 28	17:28:44.40	SIZ	—	15	37.300	116.552	0.3	A	68	3.80	0.40	HSF	—		—		—		1.2	HSF	—		—	
1970 28	18:31:42.60	SIZ	—	21	37.305	116.552	0.1	A	60	3.80	0.20	HSF	—		—		—		1.5	HSF	—		—	
1970 28	21:19:51.30	SIZ	—	9	37.295	116.542	0.2	A	120	3.00	0.40	HSF	—		—		—		1.2	HSF	—		—	
1970 28	21:25:52.90	SIZ	—	14	37.302	116.567	0.2	A	92	1.60	0.30	HSF	—		—		—		1.8	HSF	—		—	
1970 28	21:59:47.80	SIZ	—	21	37.308	116.548	0.2	A	61	3.90	0.20	HSF	—		—		—		1.8	HSF	—		—	
1970 28	22:43:45.40	SIZ	—	12	37.310	116.548	0.3	A	99	3.90	0.40	HSF	—		—		—		0.7	HSF	—		—	
1970 28	23:17: 2.40	SIZ	—	17	37.307	116.552	0.2	A	60	3.90	0.20	HSF	—		—		—		1.6	HSF	—		—	
1970 29	0: 7:40.10	SIZ	—	14	37.277	116.552	0.3	A	77	2.60	0.50	HSF	—		—		—		1.4	HSF	—		—	
1970 29	0:33: 6.60	SIZ	—	20	37.302	116.563	0.1	A	61	1.50	0.20	HSF	—		—		—		2.1	HSF	—		—	
1970 29	0:43:16.90	SIZ	—	10	37.285	116.580	0.2	B	145	2.50	0.20	HSF	—		—		—		0.4	HSF	—		—	
1970 29	1:14: 8.00	SIZ	—	15	37.290	116.553	0.2	A	103	3.80	0.20	HSF	—		—		—		0.5	HSF	—		—	
1970 29	1:17:44.30	SIZ	—	16	37.292	116.552	0.2	A	107	3.50	0.20	HSF	—		—		—		0.7	HSF	—		—	
1970 29	3: 2:18.50	SIZ	—	10	37.293	116.547	0.2	A	106	2.90	0.40	HSF	—		—		—		0.1	HSF	—		—	
1970 29	3:27:25.10	SIZ	—	12	37.297	116.550	0.4	A	79	4.00	0.50	HSF	—		—		—		0.6	HSF	—		—	
1970 29	5:31:39.10	SIZ	—	15	37.312	116.540	0.2	A	60	3.10	0.40	HSF	—		—		—		1.2	HSF	—		—	
1970 29	6:31: 0.50	SIZ	—	16	37.300	116.565	0.1	A	69	1.50	0.20	HSF	—		—		—		1.7	HSF	—		—	
1970 29	7:16:12.80	SIZ	—	14	37.308	116.548	0.3	A	69	3.90	0.40	HSF	—		—		—		0.6	HSF	—		—	
1970 29	9:15:30.80	SIZ	—	16	37.277	116.565	0.2	A	119	2.60	0.30	HSF	—		—		—		1.4	HSF	—		—	
1970 29	9:51:36.20	SIZ	—	12	37.290	116.550	0.4	A	89	2.80	0.70	HSF	—		—		—		0.9	HSF	—		—	
1970 29	10:10:35.60	SIZ	—	15	37.308	116.543	0.3	A	60	3.50	0.50	HSF	—		—		—		0.4	HSF	—		—	
1970 29	10:41:33.20	SIZ	—	16	37.293	116.550	0.2	A	79	3.40	0.30	HSF	—		—		—		1.2	HSF	—		—	
1970 29	10:42:39.30	SIZ	—	19	37.293	116.557	0.3	B	73	2.80	0.40	HSF	—		—		—		2.3	HSF	—		—	
1970 29	14:23:49.70	SIZ	—	16	37.290	116.547	0.2	A	87	3.30	0.30	HSF	—		—		—		1.2	HSF	—		—	
1970 29	15:41:22.90	SIZ	—	15	37.298	116.573	0.2	A	89	2.40	0.20	HSF	—		—		—		0.9	HSF	—		—	
1970 29	16:33:41.90	SIZ	—	15	37.297	116.545	0.2	A	77	3.20	0.30	HSF	—		—		—		1.7	HSF	—		—	
1970 29	18:24:39.00	SIZ	—	19	37.310	116.538	0.1	A	51	3.10	0.20	HSF	—		—		—		1.7	HSF	—		—	
1970 29	19:11:55.90	SIZ	—	13	37.287	116.498	0.5	A	112	4.20	0.50	HSF	—		—		—		0.3	HSF	—		—	
1970 29	19:34:15.30	SIZ	—	12	37.297	116.543	0.2	A	66	3.40	0.50	HSF	—		—		—		0.5	HSF	—		—	
1970 29	19:35:59.00	SIZ	—	10	37.308	116.552	0.4	A	100	3.50	0.60	HSF	—		—		—		0.2	HSF	—		—	
1970 29	19:49: 1.80	SIZ	—	19	37.328	116.402	0.2	B	92	2.60	1.30	HSF	—		—		—		1.8	HSF	—		—	
1970 29	20:32:57.30	SIZ	—	13	37.303	116.548	0.2	A	68	2.20	0.30	HSF	—		—		—		1.4	HSF	—		—	
1970 29	23:51:18.70	SIZ	—	17	37.312	116.545	0.2	A	55	3.90	0.30	HSF	—		—		—		1.1	HSF	—		—	
1970 30	4:52:50.30	SIZ	—	12	37.295	116.465	0.2	A	70	3.40	0.30	HSF	—		—		—		1.8	HSF	—		—	
1970 30	5: 4:37.30	SIZ	—	19	37.300	116.537	0.1	A	77	1.20	0.20	HSF	—		—		—		2.1	HSF	—		—	
1970 30	5:14:29.20	SIZ	—	18	37.302	116.563	0.5	B	90	3.70	0.60	HSF	—		—		—		1.0	HSF	—		—	
1970 30	5:37:40.10	SIZ	—	13	37.300	116.560	0.2	B	122	2.50	0.40	HSF	—		—		—		1.2	HSF	—		—	
1970 30	5:52: 5.10	SIZ	—	20	37.308	116.543	0.1	A	54	3.60	0.20	HSF	—		—		—		1.5	HSF	—		—	
1970 30	8: 1:10.50	SIZ	—	19	37.310	116.548	0.2	A	60	3.90	0.20	HSF	—		—		—		1.3	HSF	—		—	
1970 30	8:10:26.60	SIZ	—	8	37.203	116.568	1.3	C	220	2.60	1.60	HSF	—		—		—		0.7	HSF	—		—	
1970 30	8:33:28.60	SIZ	—	11	37.302	116.557	0.4	A	80	3.40	1.00	HSF	—		—		—		0.6	HSF	—		—	
1970 30	9:39: 5.90	SIZ	—	8	37.255	116.463	1.1	B	125	3.80	1.20	HSF	—		—		—		0.4	HSF	—		—	
1970 30	9:43: 1.40	SIZ	—	18	37.307	116.553	0.2	A	72	4.30	0.20	HSF	—		—		—		1.3	HSF	—		—	
1970 30	10:20:49.80		—	13	37.198	116.585	0.4	B	97	3.20	0.60	HSF	—		—		—		0.4	HSF	—		—	
1970 30	10:52:30.60	SIZ	—	20	37.288	116.573	0.2	A	73	2.00	0.20	HSF	—		—		—		1.8	HSF	—		—	
1970 30	11: 4:39.80	SIZ	—	16	37.312	116.470	0.1	A	73	2.70	0.20	HSF	—		—		—		0.9	HSF	—		—	
1970 30	11:28:20.30	SIZ	—	14	37.207	116.482	0.3	A	82	3.00	0.50	HSF	—		—		—		0.8	HSF	—		—	
1970 30	11:31:12.80	SIZ	—	21	37.285	116.545	0.1	A	57	3.00	0.20	HSF	—		—		—		2.0	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 MAR 30	13:23:35.90	SIZ	—	19	37.310	116.548	0.2	A	61	3.80	0.20	HSF	—		—		—		0.8	HSF	—		—	
1970 30	14:48:58.60	SIZ	—	15	37.310	116.545	0.2	A	102	4.00	0.30	HSF	—		—		—		0.6	HSF	—		—	
1970 30	17:10:55.80	SIZ	—	17	37.312	116.470	0.2	A	73	2.50	0.30	HSF	—		—		—		1.3	HSF	—		—	
1970 30	18:58:45.40	SIZ	—	20	37.310	116.548	0.2	A	60	3.90	0.20	HSF	—		—		—		1.4	HSF	—		—	
1970 30	19: 0:19.80	SIZ	—	11	37.308	116.552	0.3	A	98	4.00	0.40	HSF	—		—		—		—		—		—	
1970 30	20:23:41.30	SIZ	—	16	37.290	116.552	0.2	A	85	3.50	0.30	HSF	—		—		—		0.9	HSF	—		—	
1970 30	20:53: 9.30	SIZ	—	16	37.292	116.547	0.2	A	110	3.50	0.20	HSF	—		—		—		1.2	HSF	—		—	
1970 30	23:56:24.50	SIZ	—	16	37.243	116.602	0.3	A	74	1.70	0.60	HSF	—		—		—		2.2	HSF	—		—	
1970 31	0: 2:21.10	SIZ	—	15	37.303	116.527	0.2	A	72	1.90	0.30	HSF	—		—		—		0.9	HSF	—		—	
1970 31	0:25:32.40	SIZ	—	12	37.283	116.540	0.4	A	106	2.70	0.70	HSF	—		—		—		1.0	HSF	—		—	
1970 31	0:55:22.30	SIZ	—	16	37.288	116.562	0.2	A	85	2.80	0.40	HSF	—		—		—		1.5	HSF	—		—	
1970 31	3:18: 4.33		—	8	38.486	115.870	—		—	0.60	—	SHJ	—		—		—		1.0	SHJ	—		—	
1970 31	4:16: 6.80	SIZ	—	20	37.293	116.463	0.2	A	70	3.00	0.30	HSF	—		—		—		2.3	HSF	—		—	
1970 31	7:30: 0.40	SIZ	—	17	37.298	116.548	0.2	A	72	2.10	0.20	HSF	—		—		—		1.4	HSF	—		—	
1970 31	7:31:41.40	SIZ	—	16	37.302	116.552	0.3	A	73	4.20	0.30	HSF	—		—		—		1.1	HSF	—		—	
1970 31	7:38:10.20	SIZ	—	8	37.293	116.552	0.2	A	80	3.40	0.30	HSF	—		—		—		2.6	HSF	—		—	
1970 31	8:19:58.40	SIZ	—	17	37.297	116.558	0.2	A	77	1.90	0.20	HSF	—		—		—		1.3	HSF	—		—	
1970 31	10:42:44.10	SIZ	—	7	37.302	116.557	0.6	B	133	1.90	0.60	HSF	—		—		—		0.7	HSF	—		—	
1970 31	10:56:37.50	SIZ	—	7	37.208	116.485	0.8	B	119	4.30	1.30	HSF	—		—		—		0.6	HSF	—		—	
1970 31	12:26:10.00	SIZ	—	17	37.303	116.547	0.3	A	65	3.00	0.60	HSF	—		—		—		1.2	HSF	—		—	
1970 31	13:37:23.30	SIZ	—	16	37.295	116.562	0.2	A	79	3.40	0.20	HSF	—		—		—		1.3	HSF	—		—	
1970 31	13:45:27.50	SIZ	—	11	37.293	116.563	0.3	A	81	3.60	0.30	HSF	—		—		—		0.7	HSF	—		—	
1970 31	16:22:36.90	SIZ	—	7	37.335	116.478	0.3	B	217	1.40	0.50	HSF	—		—		—		0.9	HSF	—		—	
1970 31	17:57:38.20	SIZ	—	16	37.283	116.548	0.3	A	107	2.90	0.30	HSF	—		—		—		1.4	HSF	—		—	
1970 31	20:20:31.90	SIZ	—	13	37.293	116.558	0.3	A	74	2.50	0.60	HSF	—		—		—		1.0	HSF	—		—	
1970 31	20:29:18.90	SIZ	—	13	37.282	116.570	0.2	A	112	1.80	0.20	HSF	—		—		—		1.3	HSF	—		—	
1970 31	20:48:10.40	SIZ	—	10	37.283	116.548	0.3	B	121	3.60	0.30	HSF	—		—		—		0.6	HSF	—		—	
1970 31	21:35:35.50	SIZ	—	12	37.298	116.558	0.4	A	80	1.70	0.50	HSF	—		—		—		0.7	HSF	—		—	
1970 31	23:50:35.20	SIZ	—	17	37.290	116.548	0.2	A	89	3.80	0.20	HSF	—		—		—		1.8	HSF	—		—	
1970 31	23:57:21.20	SIZ	—	15	37.307	116.542	0.2	A	63	2.40	0.40	HSF	—		—		—		1.6	HSF	—		—	
1970 APR 1	3:36:51.10	SIZ	—	18	37.303	116.552	0.3	A	73	3.80	0.30	HSF	—		—		—		0.9	HSF	—		—	
1970 1	6:31: 9.10	SIZ	—	16	37.292	116.535	0.2	A	71	1.60	0.30	HSF	—		—		—		1.6	HSF	—		—	
1970 1	7:32: 8.20	SIZ	—	7	37.307	116.540	0.1	B	114	4.30	0.20	HSF	—		—		—		0.8	HSF	—		—	
1970 1	10:30:41.60	SIZ	—	8	37.302	116.570	0.4	A	91	2.00	0.60	HSF	—		—		—		0.8	HSF	—		—	
1970 1	11: 9:11.50	SIZ	—	7	37.293	116.552	0.1	B	133	3.50	0.10	HSF	—		—		—		0.1	HSF	—		—	
1970 1	14:18:54.60	SIZ	—	19	37.298	116.545	0.1	A	74	3.40	0.20	HSF	—		—		—		1.9	HSF	—		—	
1970 1	14:40:20.30	SIZ	—	18	37.282	116.552	0.2	A	58	2.90	0.40	HSF	—		—		—		1.7	HSF	—		—	
1970 1	16: 8:37.30	SIZ	—	9	37.298	116.545	0.4	A	95	3.10	1.10	HSF	—		—		—		0.9	HSF	—		—	
1970 1	17:59:10.80	SIZ	—	16	37.215	116.505	0.4	A	83	3.60	0.60	HSF	—		—		—		1.0	HSF	—		—	
1970 1	19:10:12.80	SIZ	—	20	37.303	116.553	0.2	A	74	4.20	0.20	HSF	—		—		—		2.1	HSF	—		—	
1970 1	19:42:51.50	SIZ	—	19	37.293	116.547	0.2	A	61	3.60	0.20	HSF	—		—		—		2.1	HSF	—		—	
1970 2	0:22:59.10	SIZ	—	9	37.287	116.552	0.3	B	126	3.70	0.30	HSF	—		—		—		0.4	HSF	—		—	
1970 2	1:55:48.40	SIZ	—	14	37.277	116.583	0.3	B	123	2.80	0.40	HSF	—		—		—		0.8	HSF	—		—	
1970 2	1:56:19.40	SIZ	—	18	37.307	116.545	0.2	A	58	3.70	0.30	HSF	—		—		—		1.1	HSF	—		—	
1970 2	8:58:40.60	SIZ	—	11	37.303	116.543	0.2	A	101	3.10	0.40	HSF	—		—		—		0.2	HSF	—		—	
1970 2	9:31: 2.30	SIZ	—	15	37.302	116.555	0.2	A	78	4.50	0.20	HSF	—		—		—		2.1	HSF	—		—	
1970 2	9:34:48.60	SIZ	—	17	37.303	116.553	0.2	A	74	4.30	0.20	HSF	—		—		—		0.9	HSF	—		—	
1970 2	10:55:44.60	SIZ	—	14	37.305	116.548	0.3	A	82	3.80	0.30	HSF	—		—		—		0.9	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE	ORIGIN TIME	HYPOCENTER											INTENSITY		MAGNITUDE									
(UTC)	HR MN SEC	FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	I	REF	MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 APR 2	13:23:24.70	SIZ	—	14	37.328	116.405	0.3	B	92	4.00	0.30	HSF	—		—		—		1.1	HSF	—		—	
1970 2	14:11:46.60	SIZ	—	17	37.277	116.585	0.3	A	106	1.90	0.30	HSF	—		—		—		1.2	HSF	—		—	
1970 2	14:54:13.40	SIZ	—	8	37.298	116.562	0.2	A	108	3.70	0.40	HSF	—		—		—		0.1	HSF	—		—	
1970 2	15: 6:37.70	SIZ	—	16	37.297	116.548	0.2	A	75	3.50	0.30	HSF	—		—		—		0.8	HSF	—		—	
1970 2	15:53: 1.10	SIZ	—	9	37.315	116.467	0.2	B	125	2.80	0.50	HSF	—		—		—		0.1	HSF	—		—	
1970 2	20:20:32.10	SIZ	—	17	37.312	116.548	0.2	A	60	4.50	0.20	HSF	—		—		—		1.2	HSF	—		—	
1970 2	20:22:49.90	SIZ	—	10	37.303	116.550	0.3	B	179	4.00	0.30	HSF	—		—		—		0.5	HSF	—		—	
1970 2	22:13:37.40	SIZ	—	12	37.272	116.600	0.3	A	96	1.80	0.30	HSF	—		—		—		0.4	HSF	—		—	
1970 3	1:17:10.40	SIZ	—	12	37.288	116.552	0.2	A	106	3.30	0.30	HSF	—		—		—		0.9	HSF	—		—	
1970 3	2: 9:13.10	SIZ	—	12	37.298	116.560	0.4	A	84	3.00	0.70	HSF	—		—		—		0.9	HSF	—		—	
1970 3	2: 9:38.10	SIZ	—	10	37.293	116.558	0.3	A	116	3.00	0.60	HSF	—		—		—		1.0	HSF	—		—	
1970 3	3:35: 9.40	SIZ	—	12	37.308	116.545	0.2	A	62	3.50	0.30	HSF	—		—		—		1.1	HSF	—		—	
1970 3	3:55:44.90	SIZ	—	6	37.297	116.558	0.4	B	117	1.60	1.10	HSF	—		—		—		0.1	HSF	—		—	
1970 3	4:56:56.10	SIZ	—	5	37.278	116.553	0.2	C	150	1.50	—	HSF	—		—		—		—		—		—	
1970 3	6: 2:36.40	SIZ	—	15	37.297	116.545	0.2	A	77	3.50	0.30	HSF	—		—		—		1.1	HSF	—		—	
1970 3	6:54:20.90	SIZ	—	12	37.298	116.552	0.4	A	70	3.20	0.70	HSF	—		—		—		0.6	HSF	—		—	
1970 3	8:16: 5.30	SIZ	—	7	37.315	116.542	0.3	B	99	2.40	0.40	HSF	—		—		—		0.1	HSF	—		—	
1970 3	9:16:54.30	SIZ	—	6	37.298	116.528	0.3	C	163	2.40*	—	HSF	—		—		—		0.4	HSF	—		—	
1970 3	9:49:12.80	SIZ	—	5	37.303	116.585	—	D	98	1.80	—	HSF	—		—		—		—		—		—	
1970 3	10:30:44.90	SIZ	—	13	37.290	116.557	0.2	A	94	2.20	0.30	HSF	—		—		—		1.0	HSF	—		—	
1970 3	11:42: 8.30	SIZ	—	9	37.310	116.538	0.2	A	84	3.40	0.50	HSF	—		—		—		0.7	HSF	—		—	
1970 3	11:53:37.00	SIZ	—	7	37.305	116.527	0.2	B	87	2.30	0.20	HSF	—		—		—		0.4	HSF	—		—	
1970 3	15:37:32.60	SIZ	—	9	37.310	116.540	0.4	A	98	2.20	0.50	HSF	—		—		—		1.4	HSF	—		—	
1970 3	15:43:14.40	SIZ	—	16	37.310	116.550	0.3	A	93	3.90	0.30	HSF	—		—		—		1.6	HSF	—		—	
1970 3	16:33:30.90	SIZ	—	12	37.298	116.558	0.2	A	84	2.80	0.30	HSF	—		—		—		1.7	HSF	—		—	
1970 3	16:42:53.80	SIZ	—	14	37.300	116.562	0.2	A	86	3.30	0.30	HSF	—		—		—		1.4	HSF	—		—	
1970 3	17:56:43.40	SIZ	—	7	37.285	116.550	0.3	B	137	2.00	0.30	HSF	—		—		—		0.4	HSF	—		—	
1970 3	20: 1:16.10	SIZ	—	10	37.297	116.547	0.3	A	89	3.90	0.40	HSF	—		—		—		0.5	HSF	—		—	
1970 3	21:51:40.80	SIZ	—	9	37.275	116.512	0.3	A	112	3.60	0.40	HSF	—		—		—		0.7	HSF	—		—	
1970 3	22:35: 0.80	SIZ	—	9	37.297	116.553	0.3	B	168	3.00	0.40	HSF	—		—		—		1.5	HSF	—		—	
1970 4	1:59:21.00	SIZ	—	18	37.297	116.560	0.2	A	79	3.20	0.30	HSF	—		—		—		1.5	HSF	—		—	
1970 4	2:24: 6.50		—	14	37.198	116.597	0.5	C	212	4.80*	—	HSF	—		—		—		0.8	HSF	—		—	
1970 4	3:15: 7.90	SIZ	—	15	37.202	116.587	0.4	B	111	3.90	0.50	HSF	—		—		—		0.7	HSF	—		—	
1970 4	3:34: 8.10	SIZ	—	13	37.283	116.547	0.2	A	107	2.70	0.50	HSF	—		—		—		0.9	HSF	—		—	
1970 4	5:38:41.30		—	12	37.193	116.590	1.1	C	243	2.80	1.00	HSF	—		—		—		0.9	HSF	—		—	
1970 4	6:34: 0.20	SIZ	—	16	37.200	116.587	0.3	B	111	3.40	0.40	HSF	—		—		—		1.1	HSF	—		—	
1970 4	6:36:16.20	SIZ	—	13	37.202	116.590	0.3	B	115	4.10	0.40	HSF	—		—		—		0.6	HSF	—		—	
1970 4	7:39:21.00	SIZ	—	14	37.210	116.577	0.4	B	108	2.20	1.70	HSF	—		—		—		0.5	HSF	—		—	
1970 4	9: 6:16.00		—	14	37.197	116.580	0.3	C	104	0.60*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 4	9:54:19.00	SIZ	—	9	37.190	116.398	1.0	C	233	5.10	0.60	HSF	—		—		—		0.2	HSF	—		—	
1970 4	10:14:53.20	SIZ	—	13	37.203	116.588	0.5	B	123	4.50	0.60	HSF	—		—		—		0.4	HSF	—		—	
1970 4	12:20:20.60	SIZ	—	8	37.218	116.578	0.8	C	167	5.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 4	14:37:35.70	SIZ	—	14	37.293	116.553	0.2	A	84	4.10	0.20	HSF	—		—		—		0.6	HSF	—		—	
1970 4	14:56:25.40	SIZ	—	10	37.285	116.555	0.2	A	110	1.90	0.20	HSF	—		—		—		—		—		—	
1970 4	18:30: 6.90	SIZ	—	10	37.295	116.550	0.6	A	97	3.60	1.10	HSF	—		—		—		—		—		—	
1970 4	18:59:25.30	SIZ	—	8	37.298	116.548	0.2	A	91	3.20	0.60	HSF	—		—		—		0.4	HSF	—		—	
1970 4	20:51: 0.70	SIZ	—	7	37.293	116.552	0.6	B	107	4.40	0.80	HSF	—		—		—		0.1	HSF	—		—	
1970 4	21: 0: 7.20	SIZ	—	11	37.300	116.565	0.2	B	125	3.20	0.30	HSF	—		—		—		0.7	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 APR 4	21:27:15.10	SIZ	—	6	37.292	116.548	0.6	B	127	4.30	0.80	HSF	—		—		—		0.1	HSF	—		—	
1970 4	23:25:20.20	SIZ	—	10	37.300	116.552	0.5	A	90	3.70	1.00	HSF	—		—		—		0.8	HSF	—		—	
1970 5	0:56:58.60	SIZ	—	12	37.247	116.582	0.3	A	116	1.70	0.60	HSF	—		—		—		1.9	HSF	—		—	
1970 5	2:40:24.50	SIZ	—	16	37.300	116.552	0.2	A	84	2.90	0.30	HSF	—		—		—		1.4	HSF	—		—	
1970 5	4:22:28.90	SIZ	—	12	37.308	116.555	0.4	A	97	4.50	0.40	HSF	—		—		—		0.3	HSF	—		—	
1970 5	4:30:22.10	SIZ	—	8	37.292	116.557	0.3	B	157	4.70	0.20	HSF	—		—		—		0.1	HSF	—		—	
1970 5	12:18:14.70	SIZ	—	12	37.305	116.553	0.4	A	87	3.70	0.50	HSF	—		—		—		0.4	HSF	—		—	
1970 5	12:25:51.90	SIZ	—	16	37.285	116.545	0.2	A	112	2.50	0.30	HSF	—		—		—		1.5	HSF	—		—	
1970 5	13:54: 5.80	SIZ	—	13	37.267	116.585	0.2	A	88	2.40	0.40	HSF	—		—		—		1.3	HSF	—		—	
1970 5	15:51:42.20	SIZ	—	8	37.200	116.485	1.4	C	229	3.60	1.10	HSF	—		—		—		0.5	HSF	—		—	
1970 5	18:24:37.00	SIZ	—	7	37.293	116.565	0.6	B	114	1.80	0.60	HSF	—		—		—		0.7	HSF	—		—	
1970 5	22:12:14.60	SIZ	—	13	37.293	116.565	0.4	B	79	1.50	0.70	HSF	—		—		—		1.0	HSF	—		—	
1970 5	23:18:14.90	SIZ	—	8	37.313	116.548	0.6	A	103	3.40	1.30	HSF	—		—		—		—		—		—	
1970 6	0: 4:48.90	SIZ	—	13	37.292	116.548	0.3	A	118	3.90	0.40	HSF	—		—		—		1.2	HSF	—		—	
1970 6	2:37:13.40	SIZ	—	11	37.313	116.537	0.1	A	96	2.90	0.30	HSF	—		—		—		1.4	HSF	—		—	
1970 6	6:34:20.50	SIZ	—	11	37.308	116.550	0.4	A	105	3.90	0.50	HSF	—		—		—		0.9	HSF	—		—	
1970 6	14: 8:40.20	SIZ	—	15	37.310	116.542	0.1	A	84	3.00	0.20	HSF	—		—		—		2.4	HSF	—		—	
1970 6	15:13:39.30	SIZ	—	9	37.298	116.552	0.5	A	116	3.60	0.60	HSF	—		—		—		0.8	HSF	—		—	
1970 6	15:34:40.10	SIZ	—	7	37.217	116.503	0.6	B	156	4.60	0.50	HSF	—		—		—		0.1	HSF	—		—	
1970 6	15:41:16.60	SIZ	—	7	37.295	116.552	0.7	B	126	4.70	0.60	HSF	—		—		—		—		—		—	
1970 6	17:21:30.50	SIZ	—	9	37.202	116.590	0.5	B	117	4.50	0.80	HSF	—		—		—		1.5	HSF	—		—	
1970 6	18:54:59.10	SIZ	—	7	37.298	116.543	1.0	B	84	3.80	1.70	HSF	—		—		—		0.8	HSF	—		—	
1970 6	21:34:21.60	SIZ	—	7	37.305	116.555	0.9	B	111	4.70	0.90	HSF	—		—		—		0.2	HSF	—		—	
1970 6	23:15:42.40	SIZ	—	5	37.310	116.563	—	D	108	0.10	—	HSF	—		—		—		0.3	HSF	—		—	
1970 6	23:44:48.50	SIZ	—	7	37.282	116.545	0.7	B	164	2.10	0.70	HSF	—		—		—		0.5	HSF	—		—	
1970 7	0:17:14.70	SIZ	—	9	37.213	116.502	0.3	B	185	4.10	0.30	HSF	—		—		—		0.4	HSF	—		—	
1970 7	10:59: 5.10	SIZ	—	8	37.312	116.553	0.4	A	103	3.60	0.60	HSF	—		—		—		0.9	HSF	—		—	
1970 7	12: 4:58.70	SIZ	—	11	37.310	116.543	0.4	A	101	3.20	0.70	HSF	—		—		—		0.9	HSF	—		—	
1970 7	12:48:12.20	SIZ	—	14	37.298	116.550	0.3	A	82	4.50	0.30	HSF	—		—		—		1.3	HSF	—		—	
1970 7	15:58: 0.80	SIZ	—	8	37.313	116.548	0.4	A	104	2.90	0.80	HSF	—		—		—		0.7	HSF	—		—	
1970 7	17:47:16.40	SIZ	—	16	37.215	116.507	0.3	A	120	5.00	0.30	HSF	—		—		—		2.1	HSF	—		—	
1970 7	17:59:25.70	SIZ	—	12	37.212	116.507	0.5	B	119	4.70	0.50	HSF	—		—		—		0.9	HSF	—		—	
1970 7	18:16:33.10	SIZ	—	12	37.313	116.547	0.3	A	100	3.90	0.30	HSF	—		—		—		1.4	HSF	—		—	
1970 7	18:57: 0.10	SIZ	—	13	37.210	116.512	0.3	A	120	4.90	0.30	HSF	—		—		—		0.8	HSF	—		—	
1970 7	19:10:43.60	SIZ	—	9	37.218	116.575	0.5	B	147	3.40	0.90	HSF	—		—		—		0.3	HSF	—		—	
1970 7	19:36:29.00	SIZ	—	6	37.295	116.548	0.8	B	148	4.40	0.70	HSF	—		—		—		0.4	HSF	—		—	
1970 7	20:39:52.00	SIZ	—	8	37.312	116.545	0.4	A	104	3.40	0.70	HSF	—		—		—		0.9	HSF	—		—	
1970 7	23:51: 6.30	SIZ	—	5	37.302	116.545	—	D	140	4.40	—	HSF	—		—		—		1.5	HSF	—		—	
1970 8	1:30:32.00	SIZ	—	16	37.307	116.550	0.3	A	106	4.00	0.30	HSF	—		—		—		—		—		—	
1970 8	1:40:25.80	SIZ	—	5	37.167	116.460	1.9	D	308	1.50*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 8	1:58: 7.80	SIZ	—	6	37.295	116.560	0.5	B	129	5.00	0.40	HSF	—		—		—		—		—		—	
1970 8	2:45: 6.80	SIZ	—	5	37.302	116.545	—	D	195	3.50	—	HSF	—		—		—		—		—		—	
1970 8	2:48:54.20	SIZ	—	5	37.275	116.552	—	D	206	4.80	—	HSF	—		—		—		0.1	HSF	—		—	
1970 8	4:11: 5.50	SIZ	—	5	37.240	116.567	3.6	D	258	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 8	4:42:25.30	SIZ	—	10	37.308	116.542	0.5	B	128	2.90	0.80	HSF	—		—		—		1.0	HSF	—		—	
1970 8	4:43: 9.70	SIZ	—	15	37.308	116.542	0.2	B	128	3.70	0.20	HSF	—		—		—		2.3	HSF	—		—	
1970 8	7:46:17.50	SIZ	—	8	37.310	116.548	0.5	B	129	1.80	0.80	HSF	—		—		—		0.8	HSF	—		—	
1970 8	8:42: 7.90	SIZ	—	10	37.302	116.550	0.2	B	135	1.40	0.50	HSF	—		—		—		1.7	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 APR 8	9:38: 5.10		—	9	37.198	116.588	0.5	B	179	3.10	0.80	HSF	—		—		—		0.7	HSF	—		—	
1970 8	11: 5:31.60	SIZ	—	5	37.422	116.577	4.1	D	261	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 8	13:58:17.50	SIZ	—	9	37.300	116.553	0.4	B	124	4.50	0.30	HSF	—		—		—		0.9	HSF	—		—	
1970 8	16:18:12.30	SIZ	—	10	37.313	116.545	0.4	B	157	4.00	0.40	HSF	—		—		—		1.1	HSF	—		—	
1970 8	16:46:18.90	SIZ	—	8	37.297	116.560	0.4	B	176	5.00	0.30	HSF	—		—		—		—		—		—	
1970 8	17:53:26.40	SIZ	—	4	37.220	116.595	—	D	139	0.60*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 9	1:46:10.80	SIZ	—	11	37.310	116.547	0.3	B	144	3.70	0.40	HSF	—		—		—		0.5	HSF	—		—	
1970 9	5:12: 7.60	SIZ	—	5	37.248	116.560	—	D	237	3.90	—	HSF	—		—		—		0.2	HSF	—		—	
1970 9	8:20:49.10		—	3	37.454	117.978	—		—	3.00*	—	PHM	—		—		—		—		—		—	
1970 9	16:20:55.30	SIZ	—	7	37.297	116.560	0.7	C	263	1.80	0.70	HSF	—		—		—		0.1	HSF	—		—	
1970 9	23: 7:41.00	SIZ	—	9	37.298	116.560	0.3	B	140	1.80	0.30	HSF	—		—		—		1.6	HSF	—		—	
1970 10	1:29:59.90	SIZ	—	6	37.340	116.538	0.8	B	168	2.50	1.60	HSF	—		—		—		0.1	HSF	—		—	
1970 10	1:49:19.10		—	3	37.453	117.978	—		—	3.00*	—	PHM	—		—		—		—		—		—	
1970 10	4:14:33.50	SIZ	—	12	37.107	116.317	0.7	B	130	3.10	0.90	HSF	—		—		—		1.9	HSF	—		—	
1970 10	5:15:49.50	SIZ	—	6	37.105	116.305	1.1	C	177	4.40	1.20	HSF	—		—		—		0.3	HSF	—		—	
1970 10	6:12:56.20	SIZ	—	4	37.250	116.548	—	D	245	5.00	—	HSF	—		—		—		0.1	HSF	—		—	
1970 10	6:21:26.30	SIZ	—	6	37.295	116.548	0.5	B	132	4.50	0.50	HSF	—		—		—		0.1	HSF	—		—	
1970 10	10: 8:14.80	SIZ	—	7	37.273	116.383	0.7	C	160	1.20	2.20	HSF	—		—		—		0.9	HSF	—		—	
1970 10	11:16:13.00	SIZ	—	5	37.262	116.510	—	D	173	5.00	—	HSF	—		—		—		0.2	HSF	—		—	
1970 10	14: 3: 2.30	SIZ	—	5	37.255	116.607	—	D	126	0.20	—	HSF	—		—		—		1.4	HSF	—		—	
1970 10	22: 3:49.10		—	7	37.193	116.592	0.6	C	181	3.00*	—	HSF	—		—		—		1.2	HSF	—		—	
1970 10	23:26:29.70		—	6	37.192	116.583	0.9	D	231	0.60*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 10	23:48:16.90		—	7	37.193	116.585	1.0	D	232	3.00*	—	HSF	—		—		—		1.2	HSF	—		—	
1970 11	1:10:41.80	SIZ	—	7	37.302	116.552	1.3	C	194	3.70	1.40	HSF	—		—		—		0.8	HSF	—		—	
1970 11	2:59:48.80	SIZ	—	9	37.307	116.553	0.3	B	146	4.60	0.30	HSF	—		—		—		1.1	HSF	—		—	
1970 11	3:11:47.00	SIZ	—	13	37.205	116.568	0.4	B	120	3.50	0.60	HSF	—		—		—		1.8	HSF	—		—	
1970 11	4:14:31.90	SIZ	—	14	37.277	116.555	0.3	B	133	2.80	0.50	HSF	—		—		—		2.1	HSF	—		—	
1970 11	4:18:10.10	SIZ	—	5	37.270	116.560	—	D	162	1.50	—	HSF	—		—		—		0.1	HSF	—		—	
1970 11	4:23:11.90	SIZ	—	8	37.308	116.570	1.2	B	132	4.50	1.80	HSF	—		—		—		2.3	HSF	—		—	
1970 11	4:57:45.50	SIZ	—	15	37.290	116.557	0.2	A	112	1.70	0.30	HSF	—		—		—		2.3	HSF	—		—	
1970 11	5: 8: 6.30	SIZ	—	3	37.242	116.552	—	D	154	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 11	5:10:39.40	SIZ	—	6	37.213	116.567	2.3	C	200	4.70	2.00	HSF	—		—		—		0.9	HSF	—		—	
1970 11	5:31:48.90	SIZ	—	10	37.208	116.570	0.6	B	171	3.90	0.90	HSF	—		—		—		1.3	HSF	—		—	
1970 11	5:34:16.10		—	9	37.198	116.567	0.6	B	179	3.80	0.80	HSF	—		—		—		1.1	HSF	—		—	
1970 11	7:43:21.20	SIZ	—	4	37.283	116.547	—	D	153	4.50	—	HSF	—		—		—		—		—		—	
1970 11	10:38:30.00		—	12	37.198	116.573	0.5	B	177	2.40	1.90	HSF	—		—		—		2.1	HSF	—		—	
1970 11	10:41:37.00	SIZ	—	7	37.212	116.568	0.9	B	169	3.60	1.00	HSF	—		—		—		1.6	HSF	—		—	
1970 11	11:21:50.10	SIZ	—	12	37.207	116.573	0.7	C	173	2.80	1.10	HSF	—		—		—		2.1	HSF	—		—	
1970 11	11:32:24.10	SIZ	—	11	37.207	116.570	0.4	B	119	3.20	0.60	HSF	—		—		—		2.0	HSF	—		—	
1970 11	11:34:59.50	SIZ	—	5	37.277	116.505	—	D	151	4.60	—	HSF	—		—		—		0.2	HSF	—		—	
1970 12	0:39:30.80	SIZ	—	9	37.213	116.582	0.5	B	112	4.30	0.70	HSF	—		—		—		2.1	HSF	—		—	
1970 12	1:15:52.70	SIZ	—	6	37.293	116.560	0.3	B	179	2.50	0.50	HSF	—		—		—		1.8	HSF	—		—	
1970 12	2:44:30.20	SIZ	—	6	37.200	116.595	2.8	D	234	3.00*	—	HSF	—		—		—		1.0	HSF	—		—	
1970 12	4:36:51.40	SIZ	—	7	37.297	116.575	0.3	B	137	2.70	0.50	HSF	—		—		—		1.1	HSF	—		—	
1970 12	6:41:22.80	SIZ	—	12	37.273	116.563	0.3	A	97	1.50	0.90	HSF	3	BRP	3.0	BRP	3.6	RYN	2.9	HSF	3.2	PDX	3.2	KKG
1970 12	6:59:46.70	SIZ	—	9	37.275	116.563	0.5	A	103	2.60	1.10	HSF	—		—		—		2.0	HSF	—		—	
1970 12	8:35:17.10		—	5	37.195	116.582	0.1	D	230	0.60*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 12	13:46:48.00	SIZ	—	10	37.273	116.565	0.4	A	101	2.50	0.80	HSF	—		—		—		1.9	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 APR 12	23:24:57.90	SIZ	—	12	37.278	116.567	0.3	A	103	2.50	1.60	HSF	—		—		—		2.2	HSF	—		—	
1970 13	0:55:15.10	SIZ	—	11	37.310	116.553	0.3	B	147	4.30	0.30	HSF	—		—		—		1.8	HSF	—		—	
1970 13	2: 6:36.70	SIZ	—	7	37.290	116.550	0.6	B	177	3.80	0.50	HSF	—		—		—		0.2	HSF	—		—	
1970 13	2:31:42.00	SIZ	—	10	37.285	116.542	0.4	A	118	2.80	0.60	HSF	—		—		—		1.5	HSF	—		—	
1970 13	5: 9:18.30		—	4	37.193	116.585	—	D	232	0.50*	—	HSF	—		—		—		0.6	HSF	—		—	
1970 13	7:56:38.00	SIZ	—	7	37.212	116.577	0.5	B	113	4.70	0.70	HSF	—		—		—		1.3	HSF	—		—	
1970 13	9:19:33.20	SIZ	—	6	37.300	116.557	0.7	B	191	4.80	0.50	HSF	—		—		—		0.1	HSF	—		—	
1970 13	22: 0:11.10	SIZ	—	7	37.292	116.548	0.8	B	177	3.70	0.80	HSF	—		—		—		1.4	HSF	—		—	
1970 14	1:35: 3.30	SIZ	—	9	37.290	116.548	0.4	A	119	3.60	0.50	HSF	—		—		—		1.4	HSF	—		—	
1970 14	5:30:13.60	SIZ	—	5	37.270	116.568	—	D	196	0.00	—	HSF	—		—		—		0.3	HSF	—		—	
1970 14	5:32: 7.20	SIZ	—	5	37.265	116.560	—	D	197	0.00	—	HSF	—		—		—		0.1	HSF	—		—	
1970 14	12:22:14.20	SIZ	—	9	37.298	116.553	0.4	B	138	3.10	0.60	HSF	—		—		—		1.5	HSF	—		—	
1970 14	15:39:42.40	SIZ	—	7	37.213	116.512	0.6	B	189	4.40	0.50	HSF	—		—		—		0.3	HSF	—		—	
1970 14	16: 3:21.10	SIZ	—	5	37.290	116.550	—	D	169	2.90	—	HSF	—		—		—		1.4	HSF	—		—	
1970 14	16:48:47.50	SIZ	—	5	37.305	116.560	—	D	142	4.00	—	HSF	—		—		—		0.6	HSF	—		—	
1970 14	22:32:22.80	SIZ	—	6	37.310	116.540	0.8	B	209	3.80	0.40	HSF	—		—		—		1.7	HSF	—		—	
1970 15	4:29:53.90	SIZ	—	5	37.273	116.557	—	D	183	0.50	—	HSF	—		—		—		0.1	HSF	—		—	
1970 15	7:14:52.20	SIZ	—	9	37.310	116.547	0.6	B	153	3.80	0.60	HSF	—		—		—		1.4	HSF	—		—	
1970 15	11:27:33.90	SIZ	—	9	37.298	116.555	0.7	B	180	4.30	0.50	HSF	—		—		—		1.9	HSF	—		—	
1970 15	12:16:11.60	SIZ	—	8	37.300	116.555	0.4	B	140	4.10	0.30	HSF	—		—		—		1.7	HSF	—		—	
1970 15	17:14:29.40	SIZ	—	9	37.310	116.548	0.4	B	154	4.40	0.30	HSF	—		—		—		1.4	HSF	—		—	
1970 16	0:41: 9.20	SIZ	—	10	37.295	116.557	0.3	B	142	4.20	0.30	HSF	—		—		—		1.4	HSF	—		—	
1970 16	4:55:34.50	SIZ	—	5	37.307	116.515	—	D	136	1.90	—	HSF	—		—		—		0.2	HSF	—		—	
1970 16	5:55: 1.30	SIZ	—	6	37.308	116.550	0.4	B	152	3.50	0.70	HSF	—		—		—		0.7	HSF	—		—	
1970 16	12:15:25.70	SIZ	—	8	37.207	116.490	0.4	C	184	3.00*	—	HSF	—		—		—		1.0	HSF	—		—	
1970 16	15:51: 9.40	SIZ	—	5	37.283	116.558	—	D	170	5.10	—	HSF	—		—		—		0.1	HSF	—		—	
1970 17	10:53:23.40	SIZ	—	3	37.148	116.518	—	D	206	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 17	22: 7:44.00	SIZ	—	7	37.295	116.558	0.8	B	175	4.20	0.60	HSF	—		—		—		2.2	HSF	—		—	
1970 18	4:25:51.40	SIZ	—	6	37.293	116.557	0.4	B	125	1.40	1.20	HSF	—		—		—		1.3	HSF	—		—	
1970 18	5:48:13.20	SIZ	—	6	37.315	116.547	1.7	C	216	3.90	0.80	HSF	—		—		—		1.2	HSF	—		—	
1970 18	11:11:30.90	SIZ	—	5	37.298	116.573	0.4	C	141	2.50*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 18	15:26:21.10	SIZ	—	9	37.310	116.543	0.3	B	143	3.90	0.30	HSF	—		—		—		2.0	HSF	—		—	
1970 19	9: 9:48.80	SIZ	—	5	37.298	116.550	—	D	137	4.00	—	HSF	—		—		—		1.0	HSF	—		—	
1970 19	10:29:31.70	SIZ	—	6	37.302	116.557	0.8	B	143	3.40	1.10	HSF	—		—		—		1.8	HSF	—		—	
1970 19	13:39:59.98		—	3	37.285	117.958	—		—	3.00*	—	PHM	—		—		—		0.6	PHM	—		—	
1970 19	16:25:29.10	SIZ	—	7	37.302	116.545	0.4	B	135	4.00	0.40	HSF	—		—		—		1.2	HSF	—		—	
1970 20	11: 5:18.26		—	—	36.505	117.993	—	B	—	0.80	—	PAS	—		0.8	BRP	2.2	PAS	—		—		—	
1970 20	19:21:47.20	SIZ	—	4	37.300	116.545	—	D	156	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 20	19:55:14.30	SIZ	—	5	37.252	116.563	1.4	D	218	3.00*	—	HSF	—		—		—		0.4	HSF	—		—	
1970 20	21:16:48.90	SIZ	—	21	37.295	116.573	0.7	B	62	3.40	1.20	HSF	—		—		3.4	RYN	2.8	HSF	—		—	
1970 21	1:15:17.10		—	5	37.193	116.592	1.8	D	235	3.00*	—	HSF	—		—		—		0.3	HSF	—		—	
1970 21	5:22: 2.50	SIZ	—	4	37.313	116.568	—	D	166	3.00*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 21	6:49:28.10	SIZ	—	6	37.298	116.558	1.1	B	136	3.40	1.70	HSF	—		—		—		1.3	HSF	—		—	
1970 21	7:58:24.40	SIZ	—	4	37.293	116.543	—	D	139	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 22	18:34:16.20	SIZ	—	4	37.307	116.480	—	D	137	3.00*	—	HSF	—		—		—		0.8	HSF	—		—	
1970 23	6:10:41.50	SIZ	—	5	37.290	116.560	1.7	C	173	3.00*	—	HSF	—		—		—		1.0	HSF	—		—	
1970 23	6:20:19.10	SIZ	—	6	37.255	116.513	1.3	C	164	6.30	4.90	HSF	—		—		—		0.6	HSF	—		—	
1970 23	7:37:39.10	SIZ	—	5	37.292	116.547	2.0	C	179	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 APR 23	14: 5:45.90	SIZ	—	4	37.237	116.517	—	D	177	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 23	16:34:36.00	SIZ	—	4	37.275	116.583	—	D	185	3.00*	—	HSF	—		—		—		1.9	HSF	—		—	
1970 24	5:38:24.90	SIZ	—	3	37.207	116.555	—	D	212	3.00*	—	HSF	—		—		—		—		—		—	
1970 24	14: 3:11.30	SIZ	—	3	37.260	116.490	—	D	185	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 25	2:55:29.60	SIZ	—	6	37.280	116.582	0.4	C	137	3.00*	—	HSF	—		—		—		1.6	HSF	—		—	
1970 25	8:25:50.10	LM	—	—	36.000	114.700	—	A	—	5.00*	—	BRP	—		—		3.0	PDX	—		—		3.0	KKG
1970 25	8:26:20.60	SIZ	—	6	37.122	116.305	2.1	C	141	3.00*	—	HSF	—		—		—		1.5	HSF	—		—	
1970 25	10:54:37.60	SIZ	—	5	37.300	116.547	—	D	193	3.80	—	HSF	—		—		—		0.9	HSF	—		—	
1970 26	2:27:14.80	SIZ	—	6	37.315	116.543	3.1	C	216	3.70	1.30	HSF	—		—		—		0.5	HSF	—		—	
1970 26	2:29:36.10	LM	—	—	36.000	114.700	—	A	—	5.00*	—	BRP	—		—		2.7	PDX	—		—		2.7	KKG
1970 27	2: 1:53.90	SIZ	—	5	37.300	116.548	—	D	184	2.80	—	HSF	—		—		—		2.4	HSF	—		—	
1970 27	15:22: 7.60	SIZ	—	6	37.293	116.552	0.3	B	142	4.00	0.30	HSF	—		—		—		0.4	HSF	—		—	
1970 27	18:51: 0.40	SIZ	—	6	37.295	116.548	0.4	B	123	2.40	0.70	HSF	—		—		—		0.1	HSF	—		—	
1970 27	19: 2:47.80	SIZ	—	5	37.308	116.540	—	D	120	2.50	—	HSF	—		—		—		0.5	HSF	—		—	
1970 28	4:15:38.60	SIZ	—	8	37.298	116.557	0.2	B	123	2.80	0.70	HSF	—		—		—		1.0	HSF	—		—	
1970 28	5:48:29.80	SIZ	—	6	37.297	116.555	0.2	B	125	4.50	0.20	HSF	—		—		—		—		—		—	
1970 28	22: 2:15.80	SIZ	—	5	37.293	116.572	0.9	C	142	3.00*	—	HSF	—		—		—		—		—		—	
1970 29	15:32:59.00	SIZ	—	7	37.202	116.577	0.4	B	120	3.50	0.70	HSF	—		—		—		0.9	HSF	—		—	
1970 30	6:22:14.00	SIZ	—	9	37.275	116.555	0.4	A	81	3.10	0.80	HSF	—		—		—		1.4	HSF	—		—	
1970 30	14:15:28.70	SIZ	—	8	37.295	116.553	0.3	B	126	3.10	0.70	HSF	—		—		—		0.4	HSF	—		—	
1970 30	18:58:43.30	SIZ	—	11	37.290	116.557	0.3	B	136	2.90	0.50	HSF	—		—		—		2.1	HSF	—		—	
1970 30	23: 1:19.90	SIZ	—	8	37.287	116.555	0.4	B	138	1.50	0.50	HSF	—		—		—		1.1	HSF	—		—	
1970 30	23:49:36.10	SIZ	—	13	37.288	116.558	0.3	B	138	2.90	0.50	HSF	—		—		—		2.3	HSF	—		—	
1970 MAY 1	0:51: 6.00	SIZ	—	5	37.288	116.553	0.7	C	135	3.00*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 1	4:55:22.40	SIZ	—	5	37.292	116.502	1.0	C	126	3.00*	—	HSF	—		—		—		—		—		—	
1970 1	6:37:26.10	SIZ	—	13	37.207	116.572	0.2	B	118	3.40	0.40	HSF	—		—		—		2.3	HSF	—		—	
1970 1	10:17:45.90	SIZ	—	13	37.207	116.573	0.3	B	118	3.20	0.50	HSF	—		—		—		2.5	HSF	—		—	
1970 1	10:45:52.10	SIZ	—	12	37.297	116.560	0.3	A	82	3.30	0.50	HSF	—		—		—		2.1	HSF	—		—	
1970 1	11:42:11.90	SIZ	—	7	37.205	116.572	1.0	B	220	3.60	0.90	HSF	—		—		—		0.6	HSF	—		—	
1970 1	13: 8: 8.30	SIZ	—	13	37.298	116.560	0.2	A	83	2.90	0.40	HSF	—		—		—		1.9	HSF	—		—	
1970 1	14:49: 1.10	CSNL	0.60	7	37.300	116.037	—		—	—	—	RYN	—		—		4.0	RYN	—		—		3.8	GDY
1970 1	14:55:48.30	CSNL	0.67	6	37.306	116.023	—		—	—	—	RYN	—		—		—		—		—		—	
1970 1	18:28:13.00	SIZ	—	5	37.287	116.555	0.2	C	163	3.00*	—	HSF	—		—		—		—		—		—	
1970 2	21:34:50.60		—	5	37.207	116.652	0.7	D	183	3.00*	—	HSF	—		—		—		1.9	HSF	—		—	
1970 3	1: 6:36.40	SIZ	—	5	37.270	116.558	2.2	C	166	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 3	4:49: 6.10	SIZ	—	11	37.295	116.547	0.3	B	132	3.50	0.40	HSF	—		—		—		1.2	HSF	—		—	
1970 3	13: 4:12.80	SIZ	—	6	37.285	116.558	0.6	B	145	1.40	0.90	HSF	—		—		—		1.4	HSF	—		—	
1970 3	19:39:44.80	SIZ	—	4	37.277	116.508	—	D	152	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 4	19:43:54.30	SIZ	—	5	37.300	116.550	1.5	D	193	3.00*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 5	10:46:18.60	SIZ	—	6	37.257	116.458	0.4	B	127	3.80	0.60	HSF	—		—		—		0.1	HSF	—		—	
1970 5	15:58:19.80	SIZ	—	4	37.222	116.237	—	D	226	3.00*	—	HSF	—		—		—		0.3	HSF	—		—	
1970 6	1:27:44.90	SIZ	—	8	37.297	116.553	0.6	B	128	2.80	1.20	HSF	—		—		—		1.3	HSF	—		—	
1970 7	13:10:10.30	SIZ	—	5	37.283	116.547	0.7	C	157	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 8	8: 5: 6.70	SIZ	—	13	37.302	116.555	0.2	A	87	3.80	0.20	HSF	—		—		—		2.1	HSF	—		—	
1970 8	9: 3:24.40	SIZ	—	3	37.298	116.558	—	D	165	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 8	11:10:54.60	SIZ	—	11	37.305	116.550	0.3	A	88	3.70	0.40	HSF	—		—		—		1.1	HSF	—		—	
1970 9	0:27:39.30		—	5	37.197	116.582	1.2	D	229	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 9	18:45:39.60	SIZ	—	9	37.207	116.565	0.6	B	118	4.50	0.80	HSF	—		—		—		1.2	HSF	—		—	

DATE	ORIGIN TIME	HYPOCENTER											INTENSITY		MAGNITUDE									
(UTC)	HR MN SEC	FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	I	REF	MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 MAY 10	12:45: 4.10	SIZ	—	9	37.258	116.525	0.7	B	91	5.40	2.40	HSF	—		—		—		0.4	HSF	—		—	
1970 10	21:27:49.30	SIZ	—	5	37.313	116.540	0.6	C	155	3.00*	—	HSF	—		—		—		0.7	HSF	—		—	
1970 11	12:58:23.70	SIZ	—	7	37.290	116.560	0.7	C	139	3.00*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 11	20:59:39.50	SIZ	—	4	37.290	116.558	—	D	173	3.00*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 12	7:36:48.10	SIZ	—	8	37.235	116.500	1.1	B	105	3.00*	—	HSF	—		—		—		0.4	HSF	—		—	
1970 12	7:47:19.20	SIZ	—	6	37.232	116.507	0.8	B	125	5.00	1.00	HSF	—		—		—		—		—		—	
1970 13	3:55:45.60	SIZ	—	9	37.228	116.507	0.4	A	120	5.10	0.60	HSF	—		—		—		1.6	HSF	—		—	
1970 13	6:30: 9.60	SIZ	—	6	37.285	116.560	0.8	B	145	5.60	3.40	HSF	—		—		—		0.4	HSF	—		—	
1970 13	6:32:43.00	SIZ	—	12	37.290	116.553	0.3	B	74	4.10	0.30	HSF	—		—		—		1.2	HSF	—		—	
1970 13	14:59: 7.90	SIZ	—	11	37.293	116.560	0.2	B	78	3.30	0.30	HSF	—		—		—		1.7	HSF	—		—	
1970 14	2: 7:32.20	SIZ	—	5	37.290	116.552	1.2	C	133	3.00*	—	HSF	—		—		—		0.7	HSF	—		—	
1970 14	4:15:13.40	SIZ	—	7	37.308	116.548	0.1	B	104	3.40	0.30	HSF	—		—		—		0.9	HSF	—		—	
1970 15	0: 9:13.60	SIZ	—	7	37.310	116.547	0.9	B	197	4.10	0.90	HSF	—		—		—		0.7	HSF	—		—	
1970 15	0:14:18.70	SIZ	—	4	37.303	116.547	—	D	198	3.00*	—	HSF	—		—		—		—		—		—	
1970 15	4: 2:49.30	SIZ	—	10	37.290	116.588	0.5	A	91	4.30	0.60	HSF	—		—		—		0.7	HSF	—		—	
1970 15	7:58:22.70	SIZ	—	11	37.305	116.553	0.3	B	90	3.70	0.40	HSF	—		—		—		2.0	HSF	—		—	
1970 15	13:57:23.43	CSNL	—	—	37.163	116.036	—		—	8.00*	—	GDY	—		—		—		—		—		3.5	GDY
1970 15	15:19:38.00	CSNL	—	4	36.100	116.000	—		—	—	—	BRK	2	BRP	3.2	BRP	4.0	BRK	—		—		—	
1970 15	15:53: 2.90	SIZ	—	11	37.292	116.553	0.3	B	121	4.00	0.40	HSF	—		—		—		2.4	HSF	—		—	
1970 15	16:41:35.70	SIZ	—	8	37.290	116.555	0.5	B	120	4.20	0.60	HSF	—		—		—		0.9	HSF	—		—	
1970 15	19:25: 5.10	SIZ	—	8	37.292	116.555	0.4	B	128	4.10	0.40	HSF	—		—		—		1.1	HSF	—		—	
1970 16	1:24:40.50	SIZ	—	9	37.290	116.553	0.3	B	127	4.00	0.40	HSF	—		—		—		0.7	HSF	—		—	
1970 16	19:34:10.60	SIZ	—	10	37.292	116.555	0.3	B	95	3.80	0.40	HSF	—		—		—		2.3	HSF	—		—	
1970 16	21:56: 8.80	SIZ	—	10	37.290	116.555	0.3	B	95	3.80	0.40	HSF	—		—		—		1.9	HSF	—		—	
1970 17	1:55:54.90	SIZ	—	9	37.290	116.585	0.4	A	89	4.00	0.40	HSF	—		—		—		1.2	HSF	—		—	
1970 17	5:56:27.00	SIZ	—	4	37.298	116.553	—	D	121	3.00*	—	HSF	—		—		—		0.3	HSF	—		—	
1970 17	8:23:37.60	SIZ	—	5	37.293	116.553	0.7	C	128	3.00*	—	HSF	—		—		—		0.2	HSF	—		—	
1970 17	8:58:37.40	SIZ	—	5	37.160	116.522	2.2	D	220	3.00*	—	HSF	—		—		—		0.2	HSF	—		—	
1970 17	11: 2: 8.00	SIZ	—	5	37.292	116.553	0.5	C	130	3.00*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 17	16:17:22.60	SIZ	—	9	37.290	116.555	0.4	B	168	3.70	0.50	HSF	—		—		—		2.1	HSF	—		—	
1970 17	16:29:19.40	SIZ	—	5	37.288	116.550	1.3	C	174	3.00*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 17	16:35:24.40	SIZ	—	7	37.290	116.553	0.5	B	175	3.10	0.60	HSF	—		—		—		1.7	HSF	—		—	
1970 17	16:40:20.80	SIZ	—	9	37.287	116.557	0.3	B	165	3.70	0.40	HSF	—		—		—		2.4	HSF	—		—	
1970 17	17:23: 8.82		—	6	38.482	116.104	—		—	12.00	—	SHJ	—		—		—		1.1	SHJ	—		—	
1970 17	17:59:17.50	SIZ	—	6	37.288	116.555	0.9	B	171	4.10	0.90	HSF	—		—		—		1.4	HSF	—		—	
1970 17	23:11:36.80	SIZ	—	9	37.293	116.555	0.4	B	130	4.10	0.40	HSF	—		—		—		1.7	HSF	—		—	
1970 18	2:50:47.60	SIZ	—	6	37.295	116.552	0.5	C	104	3.00*	—	HSF	—		—		—		—		—		—	
1970 18	5:13: 6.90	SIZ	—	4	37.250	116.475	—	D	114	3.00*	—	HSF	—		—		—		—		—		—	
1970 18	15:40:11.40	SIZ	—	17	37.295	116.557	0.5	B	79	4.10	0.60	HSF	—		—		—		2.7	HSF	—		—	
1970 18	16:52:39.30	SIZ	—	10	37.277	116.555	0.6	B	136	2.70	1.10	HSF	—		—		—		1.9	HSF	—		—	
1970 18	20:10:42.37		—	—	36.378	117.920	—		—	8.00*	—	GDY	1	BRP	2.8	BRP	3.7	PAS	—		3.7	PDX	3.7	KKG
1970 19	11:12:31.60	SIZ	—	4	37.275	116.553	—	D	156	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 19	13:48:29.20	SIZ	—	5	37.267	116.562	1.7	D	311	3.00*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 19	14:23: 4.90	SIZ	—	4	37.300	116.547	—	D	125	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 19	15:39: 4.60	SIZ	—	5	37.288	116.553	1.2	C	168	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 19	15:45:40.60	SIZ	—	6	37.275	116.557	1.2	C	157	3.30	2.30	HSF	—		—		—		0.1	HSF	—		—	
1970 19	16:38:37.60	SIZ	—	7	37.303	116.545	0.4	B	188	4.30	0.30	HSF	—		—		—		0.9	HSF	—		—	
1970 19	21:44:42.60	SIZ	—	8	37.308	116.545	0.7	B	206	4.00	0.50	HSF	—		—		—		0.9	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 MAY 20	4: 6:17.90	SIZ	—	10	37.290	116.553	0.3	A	101	4.00	0.30	HSF	—		—		—		1.3	HSF	—		—	
1970 20	8:44:14.90	SIZ	—	11	37.293	116.555	0.3	A	96	4.10	0.30	HSF	—		—		—		1.9	HSF	—		—	
1970 20	10:18:48.50	SIZ	—	5	37.295	116.555	0.7	C	126	3.00*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 20	11:34:44.30	SIZ	—	4	37.297	116.552	—	D	123	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 20	15:19:38.30	SIZ	—	11	37.290	116.557	0.3	B	168	3.70	0.20	HSF	—		—		—		2.5	HSF	—		—	
1970 21	2:26:24.70	SIZ	—	13	37.293	116.555	0.3	A	77	4.30	0.30	HSF	—		—		—		1.9	HSF	—		—	
1970 21	3:40:12.90	SIZ	—	9	37.290	116.548	0.4	B	129	3.90	0.40	HSF	—		—		—		0.5	HSF	—		—	
1970 21	6: 1:17.90	SIZ	—	6	37.292	116.553	0.4	B	131	4.20	0.60	HSF	—		—		—		0.4	HSF	—		—	
1970 21	14:28:30.80	SIZ	—	5	37.157	116.255	2.0	D	258	3.00*	—	HSF	—		—		3.1	RYN	2.7	HSF	—		—	
1970 21	23:14:51.90	SIZ	—	5	37.297	116.552	0.8	C	123	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 22	0:48: 4.90	SIZ	—	5	37.305	116.550	0.4	C	113	3.00*	—	HSF	—		—		—		—		—		—	
1970 22	17: 5: 6.90	SIZ	—	4	37.297	116.552	—	D	123	3.00*	—	HSF	—		—		—		—		—		—	
1970 22	18: 8:24.60	SIZ	—	5	37.295	116.552	0.3	C	124	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 23	0:12:13.10	SIZ	—	10	37.298	116.555	0.9	B	122	3.50	1.10	HSF	—		—		—		1.7	HSF	—		—	
1970 23	4:21:56.00	SIZ	—	4	37.315	116.550	—	D	122	3.00*	—	HSF	—		—		—		0.2	HSF	—		—	
1970 23	5:45:37.60	SIZ	—	8	37.207	116.505	0.6	B	221	4.80	0.40	HSF	—		—		—		0.3	HSF	—		—	
1970 24	5:48:13.40	SIZ	—	5	37.285	116.567	0.9	C	157	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 24	15:58:39.80	SIZ	—	4	37.288	116.555	—	D	169	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 24	19: 2:33.40	SIZ	—	10	37.203	116.537	0.5	B	205	3.30	0.50	HSF	—		—		—		1.4	HSF	—		—	
1970 25	0: 0: 9.40	SIZ	—	7	37.200	116.542	0.8	B	209	3.10	1.20	HSF	—		—		—		0.9	HSF	—		—	
1970 25	4:50:37.50	SIZ	—	6	37.288	116.550	0.6	B	133	4.30	0.60	HSF	—		—		—		0.6	HSF	—		—	
1970 25	21:43: 0.30	SIZ	—	7	37.278	116.550	0.6	B	146	2.90	0.90	HSF	—		—		—		1.6	HSF	—		—	
1970 26	11:25:43.80	SIZ	—	11	37.308	116.552	0.2	A	106	4.40	0.20	HSF	—		—		—		1.9	HSF	—		—	
1970 26	11:51:18.40	SIZ	—	11	37.308	116.552	0.3	A	106	4.40	0.30	HSF	—		—		—		1.9	HSF	—		—	
1970 26	12:54:19.60	SIZ	—	9	37.112	116.298	1.2	C	226	3.30	0.90	HSF	—		—		—		1.4	HSF	—		—	
1970 27	5:58:44.60	SIZ	—	12	37.295	116.555	0.4	A	97	4.20	0.30	HSF	—		—		—		1.2	HSF	—		—	
1970 27	6:16:32.60	SIZ	—	6	37.293	116.555	0.6	B	102	4.30	0.80	HSF	—		—		—		1.2	HSF	—		—	
1970 27	9: 7:56.00	SIZ	—	10	37.305	116.552	0.4	A	110	4.40	0.40	HSF	—		—		—		0.6	HSF	—		—	
1970 28	12: 0: 1.81	SIZ	—	—	37.200	116.049	—		—	8.00*	—	GDY	—		—		4.2	RYN	—		4.2	PDX	4.2	GDY
1970 30	1:29:16.10		—	5	37.193	116.580	0.6	C	171	3.00*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 30	10:54:16.70		—	6	37.198	116.578	0.9	B	176	3.70	1.00	HSF	—		—		—		—		—		—	
1970 30	12:23:34.00	SIZ	—	5	37.303	116.545	6.6	D	318	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 JUN 1	17: 7: 2.60	SIZ	—	5	37.283	116.588	1.5	C	178	3.00*	—	HSF	—		—		—		—		—		—	
1970 2	5:51:28.50	SIZ	—	7	37.173	116.250	1.1	C	223	2.40	2.10	HSF	—		—		—		—		—		—	
1970 2	12:11:13.80	SIZ	—	8	37.322	116.468	0.3	B	125	4.40	0.40	HSF	—		—		—		1.4	HSF	—		—	
1970 4	17:35:54.90	SIZ	—	12	37.298	116.548	0.3	A	82	3.30	0.40	HSF	—		—		—		0.7	HSF	—		—	
1970 5	7:13: 3.70	SIZ	—	4	37.297	116.555	—	D	186	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 7	3: 2:24.60	SIZ	—	13	37.290	116.550	0.2	A	73	3.60	0.30	HSF	—		—		—		1.6	HSF	—		—	
1970 7	3:28:34.40	SIZ	—	4	37.287	116.552	—	D	164	3.00*	—	HSF	—		—		—		—		—		—	
1970 7	10:19:10.20	SIZ	—	5	37.300	116.557	0.5	C	109	3.00*	—	HSF	—		—		—		1.3	HSF	—		—	
1970 8	18:59:54.30	SIZ	—	8	37.115	116.282	1.7	C	205	3.80	1.30	HSF	—		—		—		1.5	HSF	—		—	
1970 9	13:34:54.80		0.40	4	38.205	117.814	—		—	—	—	RYN	—		—		—		—		—		—	
1970 9	19:39:15.20	SIZ	—	4	37.283	116.548	—	D	142	3.00*	—	HSF	—		—		—		0.2	HSF	—		—	
1970 10	0:21:52.80	SIZ	—	5	37.298	116.547	0.6	C	117	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 11	14:56:10.20	SIZ	—	6	37.310	116.547	0.3	B	194	3.60	0.40	HSF	—		—		—		0.3	HSF	—		—	
1970 12	20: 2:41.30	SIZ	—	6	37.190	116.475	0.8	B	196	3.30	1.30	HSF	—		—		—		—		—		—	
1970 13	2:39: 4.30	SIZ	—	4	37.218	116.578	—	D	259	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 13	2:47:47.90	SIZ	—	6	37.207	116.583	0.9	C	227	3.30	1.10	HSF	—		—		—		—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 JUN 16	6:35:53.00	SIZ	—	6	37.292	116.552	0.8	B	177	4.30	0.70	HSF	—		—		—		0.1	HSF	—		—	
1970 17	12: 8:21.71		—	—	35.901	117.743	—	A	—	8.00*	—	PAS	—		—		2.4	PAS	—		—		—	
1970 18	13:52:25.80	SIZ	—	6	37.298	116.557	0.3	B	122	3.60	1.40	HSF	—		—		—		0.4	HSF	—		—	
1970 18	20: 4:45.20		—	6	37.487	116.533	3.8	D	276	11.80	5.00	HSF	—		—		—		0.7	HSF	—		—	
1970 19	13:13:55.80	SIZ	—	4	37.287	116.548	—	D	163	3.00*	—	HSF	—		—		—		—		—		—	
1970 19	13:41:56.60	SIZ	—	4	37.292	116.555	—	D	181	3.00*	—	HSF	—		—		—		0.4	HSF	—		—	
1970 20	1:30: 2.40	SIZ	—	4	37.283	116.450	—	D	170	3.00*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 20	14: 4:55.90	SIZ	—	5	37.293	116.548	2.5	D	184	3.00*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 21	13:24:11.30	SIZ	—	4	37.312	116.547	—	D	141	3.00*	—	HSF	—		—		—		—		—		—	
1970 24	0:28:25.60	SIZ	—	10	37.217	116.522	1.2	C	192	4.30	0.80	HSF	—		—		—		2.2	HSF	—		—	
1970 24	10:45:33.00	SIZ	—	11	37.292	116.553	0.3	B	131	3.60	0.30	HSF	—		—		—		2.0	HSF	—		—	
1970 25	2:28:24.90	SIZ	—	6	37.218	116.520	0.4	B	189	3.20	0.60	HSF	—		—		—		0.3	HSF	—		—	
1970 25	10:20:13.10	SIZ	—	7	37.220	116.515	0.7	B	223	5.30	1.10	HSF	—		—		—		0.4	HSF	—		—	
1970 25	11:51:40.80	SIZ	—	7	37.288	116.555	0.5	B	138	4.20	0.60	HSF	—		—		—		0.5	HSF	—		—	
1970 25	20:52:53.60	SIZ	—	7	37.210	116.563	0.6	C	117	3.00*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 25	21:21:19.60	SIZ	—	14	37.303	116.555	0.5	B	88	3.40	0.70	HSF	—		—		—		2.1	HSF	—		—	
1970 26	3: 6:30.70	SIZ	—	4	37.292	116.452	—	D	124	3.00*	—	HSF	—		—		—		0.3	HSF	—		—	
1970 26	12:50:52.20	SIZ	—	7	37.202	116.588	0.6	B	148	4.00	0.80	HSF	—		—		—		0.6	HSF	—		—	
1970 26	14:52:40.50	SIZ	—	5	37.203	116.585	0.8	C	165	3.00*	—	HSF	—		—		—		—		—		—	
1970 26	15:19:39.80	SIZ	—	6	37.202	116.593	0.5	C	146	4.90*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 28	4:55:32.70	SIZ	—	4	37.207	116.520	—	D	242	3.00*	—	HSF	—		—		—		—		—		—	
1970 28	8: 3: 4.10	SIZ	—	6	37.308	116.460	0.3	B	111	3.00	0.90	HSF	—		—		—		1.2	HSF	—		—	
1970 29	7:25:10.90	SIZ	—	4	37.153	116.290	—	D	133	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 30	1:13:29.70	SIZ	—	4	37.215	116.577	—	D	262	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 30	5:10:45.50		—	—	35.687	117.579	—	A	—	8.00*	—	PAS	—		—		2.3	PAS	—		—		—	
1970 30	13: 7: 1.50	SIZ	—	9	37.310	116.542	0.5	B	100	3.40	1.10	HSF	—		—		—		0.9	HSF	—		—	
1970 30	16: 1:31.50	SIZ	—	5	37.315	116.562	0.9	D	329	3.00*	—	HSF	—		—		—		1.9	HSF	—		—	
1970 JUL 2	17:36: 8.86		—	7	37.558	117.721	—		—	6.60	—	PHM	—		—		—		1.6	PHM	—		—	
1970 3	1: 5:42.10	SIZ	—	8	37.285	116.540	2.3	D	292	1.50*	—	HSF	—		—		—		1.8	HSF	—		—	
1970 3	2:11:51.00	SIZ	—	5	37.202	116.507	0.9	D	232	3.00*	—	HSF	—		—		—		0.7	HSF	—		—	
1970 3	2:14:12.20	SIZ	—	5	37.195	116.493	0.9	D	216	3.00*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 3	2:58:41.40	SIZ	—	6	37.297	116.560	1.5	C	264	3.30	0.80	HSF	—		—		—		1.2	HSF	—		—	
1970 3	10:13:29.60	SIZ	—	6	37.187	116.513	0.6	C	238	3.20	0.80	HSF	—		—		—		1.3	HSF	—		—	
1970 5	9:38:48.60	SIZ	—	5	37.237	116.593	4.0	D	292	3.00*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 5	21:23:47.59		—	—	36.024	117.867	—	B	—	8.00*	—	PAS	—		—		2.6	PAS	—		—		—	
1970 7	10:48:34.85		—	—	36.036	117.677	—		—	8.00*	—	GDY	—		—		3.1	PAS	—		3.4	PDX	3.4	KKG
1970 8	0:53:16.60	SIZ	—	4	37.278	116.468	—	D	167	3.00*	—	HSF	—		—		—		1.8	HSF	—		—	
1970 8	19:11:29.80	SIZ	—	5	37.238	116.533	0.9	D	247	3.00*	—	HSF	—		—		—		0.4	HSF	—		—	
1970 10	2: 4:50.10	SIZ	—	4	37.287	116.510	—	D	202	3.00*	—	HSF	—		—		—		1.0	HSF	—		—	
1970 12	16:32:52.30	SIZ	—	8	37.300	116.568	1.4	C	270	3.10	0.80	HSF	—		—		—		2.3	HSF	—		—	
1970 13	0:41:58.00	SIZ	—	5	37.283	116.515	1.5	D	202	3.00*	—	HSF	—		—		—		1.4	HSF	—		—	
1970 13	17:49:21.46		—	4	37.438	117.935	—		—	3.00*	—	PHM	—		—		—		—		—		—	
1970 14	13:57:36.40	SIZ	—	8	37.288	116.558	1.7	C	267	2.50	1.10	HSF	—		—		—		2.3	HSF	—		—	
1970 15	9:20:55.80	SIZ	—	9	37.263	116.575	0.9	C	272	3.30	0.50	HSF	—		—		—		1.6	HSF	—		—	
1970 16	3: 0:21.00		0.12	5	37.037	117.602	—		—	—	—	RYN	—		—		2.4	RYN	—		—		—	
1970 17	12:47:41.13		—	12	37.454	117.993	—		—	3.00*	—	PHM	—		—		3.1	RYN	2.5	PHM	—		3.9	BRK
1970 18	22:50: 5.90	SIZ	—	4	37.220	116.492	—	D	213	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 18	22:53:32.90	SIZ	—	6	37.223	116.510	0.6	C	226	5.00	0.30	HSF	—		—		—		1.1	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 JUL 19	1:33:43.90	SIZ	—	6	37.312	116.598	2.4	D	325	3.00*	—	HSF	—		—		—		1.0	HSF	—		—	
1970 19	9:53: 0.20	SIZ	—	12	37.295	116.555	0.3	B	191	3.40	0.30	HSF	—		—		—		2.5	HSF	—		—	
1970 19	11:35:34.80	SIZ	—	18	37.297	116.557	0.4	A	82	3.70	0.60	HSF	—		—		3.2	PAS	2.9	HSF	—		—	
1970 19	12:32:26.90	SIZ	—	8	37.293	116.567	1.8	C	314	3.70	0.70	HSF	—		—		—		1.1	HSF	—		—	
1970 19	13:57:49.10	SIZ	—	10	37.297	116.567	0.5	C	261	3.70	0.30	HSF	—		—		—		2.1	HSF	—		—	
1970 19	14:51:19.10	SIZ	—	8	37.293	116.557	1.7	C	261	3.70	0.70	HSF	—		—		—		1.1	HSF	—		—	
1970 19	15:32:49.30	SIZ	—	7	37.292	116.548	0.4	C	249	3.80	0.10	HSF	—		—		—		1.1	HSF	—		—	
1970 19	16: 1: 8.90	SIZ	—	9	37.297	116.560	0.7	C	257	3.80	0.30	HSF	—		—		—		0.9	HSF	—		—	
1970 19	17:52:47.90	SIZ	—	4	37.278	116.517	—	D	285	3.00*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 19	20:58:20.90	SIZ	—	6	37.288	116.552	1.0	C	304	3.70	0.30	HSF	—		—		—		1.8	HSF	—		—	
1970 20	2:27: 9.00	SIZ	—	11	37.292	116.562	0.4	B	193	3.50	0.40	HSF	—		—		—		2.2	HSF	—		—	
1970 20	2:33:18.40	SIZ	—	5	37.278	116.545	3.3	D	281	3.00*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 20	3:54:25.90	SIZ	—	4	37.285	116.492	—	D	163	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 20	10:46:17.00	SIZ	—	8	37.295	116.560	0.5	C	155	3.00*	—	HSF	—		—		—		2.5	HSF	—		—	
1970 20	11:26:27.50	SIZ	—	4	37.288	116.512	—	D	232	3.00*	—	HSF	—		—		—		0.8	HSF	—		—	
1970 21	11:14:33.20		—	—	36.101	117.828	—	A	—	8.00*	—	PAS	—		—		2.5	PAS	—		—		—	
1970 28	16:25:47.40	SIZ	—	10	37.283	116.547	0.4	B	137	3.10	0.50	HSF	—		—		—		2.5	HSF	—		—	
1970 28	17: 2:10.23		—	—	36.947	114.965	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1970 29	1:23:16.87		—	—	35.969	117.658	—		—	8.00*	—	GDY	—		—		3.0	PAS	—		3.5	PDX	3.0	KKG
1970 29	6:16: 1.70	SIZ	—	4	37.310	116.563	—	D	217	3.00*	—	HSF	—		—		—		0.8	HSF	—		—	
1970 29	18:10:57.40	SIZ	—	6	37.285	116.557	1.8	C	190	3.00*	—	HSF	—		—		—		2.4	HSF	—		—	
1970 29	18:10:59.10		0.16	6	37.197	117.311	—		—	—	—	RYN	—		—		3.2	RYN	—		—		—	
1970 29	18:15:55.10	SIZ	—	4	37.283	116.560	—	D	169	3.00*	—	HSF	—		—		—		2.5	HSF	—		—	
1970 29	19:10:39.50	SIZ	—	5	37.302	116.543	0.1	C	110	3.00*	—	HSF	—		—		—		2.1	HSF	—		—	
1970 30	0:51:19.40	SIZ	—	4	37.298	116.560	—	D	335	3.00*	—	HSF	—		—		—		1.6	HSF	—		—	
1970 30	20:16:35.40	SIZ	—	10	37.283	116.560	—	C	103	0.60*	—	HSF	5	BRP	4.0	BRP	4.3	RYN	3.2	HSF	4.1	PDX	4.4	PAS
1970 30	23: 2:58.30	SIZ	—	5	37.290	116.548	0.4	C	144	3.00*	—	HSF	—		—		—		1.9	HSF	—		—	
1970 31	4:44:54.20	SIZ	—	5	37.297	116.553	0.3	C	166	3.00*	—	HSF	—		—		—		1.5	HSF	—		—	
1970 31	4:56: 5.30	SIZ	—	6	37.302	116.553	0.7	C	145	3.00*	—	HSF	—		—		—		2.2	HSF	—		—	
1970 31	8:44:25.40	SIZ	—	4	37.292	116.550	—	D	157	3.00*	—	HSF	—		—		—		1.7	HSF	—		—	
1970 31	14:35: 9.80	SIZ	—	5	37.295	116.550	1.7	C	154	3.00*	—	HSF	—		—		—		1.8	HSF	—		—	
1970 AUG 1	3:12:51.40	SIZ	—	4	37.307	116.573	—	D	158	3.00*	—	HSF	—		—		—		1.8	HSF	—		—	
1970 1	16:11: 2.70	SIZ	—	5	37.293	116.555	0.6	C	155	3.00*	—	HSF	—		—		—		1.4	HSF	—		—	
1970 2	7:25:31.00	SIZ	—	4	37.287	116.555	—	D	192	3.00*	—	HSF	—		—		—		0.2	HSF	—		—	
1970 2	11:38:55.80	SIZ	—	5	37.292	116.563	0.8	D	186	3.00*	—	HSF	—		—		—		1.6	HSF	—		—	
1970 2	13:14:33.40	SIZ	—	5	37.272	116.575	1.1	C	127	3.00*	—	HSF	—		—		—		1.0	HSF	—		—	
1970 2	13:35:27.50	SIZ	—	5	37.288	116.565	1.1	D	191	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 3	9:15:46.00	SIZ	—	4	37.228	116.548	—	D	262	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 3	23:47:53.80	SIZ	—	4	37.287	116.552	—	D	190	3.00*	—	HSF	—		—		—		0.6	HSF	—		—	
1970 4	11:43:46.20	SIZ	—	5	37.288	116.555	0.3	C	163	3.00*	—	HSF	—		—		—		1.6	HSF	—		—	
1970 5	8:29:58.40	SIZ	—	5	37.300	116.558	0.4	C	149	3.00*	—	HSF	—		—		—		1.0	HSF	—		—	
1970 5	11: 1:44.00	SIZ	—	7	37.288	116.560	0.5	B	165	3.80	0.50	HSF	—		—		—		2.1	HSF	—		—	
1970 5	14:58:24.40	SIZ	—	5	37.290	116.555	0.6	D	184	3.00*	—	HSF	—		—		—		0.8	HSF	—		—	
1970 7	6:11:36.00	SIZ	—	4	37.287	116.548	—	D	194	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 9	9:32:20.30	SIZ	—	4	37.277	116.538	—	D	230	3.00*	—	HSF	—		—		—		1.2	HSF	—		—	
1970 10	0:20:46.60	SIZ	—	6	37.283	116.555	0.6	C	169	3.00*	—	HSF	—		—		—		1.9	HSF	—		—	
1970 10	0:46:37.40	SIZ	—	6	37.322	116.465	0.8	B	125	4.50	0.90	HSF	—		—		—		1.7	HSF	—		—	
1970 10	10:48:57.54		—	—	37.196	115.864	—		—	8.00*	—	GDY	4	KKG	3.0	BRP	3.9	RYN	—		4.1	PDX	3.9	PAS

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 AUG 10	14:42: 6.70	SIZ	—	4	37.290	116.553	—	D	184	3.00*	—	HSF	—		—		—		1.5	HSF	—		—	
1970 10	15:51:20.70	SIZ	—	5	37.275	116.550	1.1	D	188	3.00*	—	HSF	—		—		—		1.8	HSF	—		—	
1970 10	21:33:31.50	SIZ	—	6	37.277	116.455	0.6	B	161	3.60	1.00	HSF	—		—		—		1.8	HSF	—		—	
1970 12	11:45: 2.12		—	—	36.059	118.000	—	A	—	8.00*	—	PAS	—		—		2.7	PAS	—		—		—	
1970 13	21:12:16.40	SIZ	—	8	37.310	116.540	0.3	A	117	3.80	0.50	HSF	—		—		—		2.4	HSF	—		—	
1970 15	3:31:40.90	SIZ	—	7	37.292	116.557	0.6	B	144	4.00	0.50	HSF	—		—		—		2.2	HSF	—		—	
1970 15	4:25:26.00	SIZ	—	4	37.290	116.552	—	D	186	3.00*	—	HSF	—		—		—		1.7	HSF	—		—	
1970 15	5:47:34.55		—	—	35.915	117.589	—	B	—	8.00*	—	PAS	—		—		3.0	PAS	—		—		—	
1970 16	11:28:24.60	SIZ	—	5	37.282	116.548	0.3	C	179	3.00*	—	HSF	—		—		—		2.1	HSF	—		—	
1970 16	13:12: 2.80	SIZ	—	5	37.280	116.547	0.6	D	181	3.00*	—	HSF	—		—		—		2.5	HSF	—		—	
1970 20	11:26: 0.20		0.22	4	37.221	117.551	—		—	—	—	RYN	—		—		—		—		—		—	
1970 21	2:45:42.90		1.05	6	37.520	117.411	—		—	—	—	RYN	—		—		2.8	RYN	—		—		2.6	PAS
1970 21	14:40: 8.30		0.39	5	37.363	117.594	—		—	—	—	RYN	—		—		—		—		—		—	
1970 23	0:36:36.58		—	—	36.006	117.762	—	A	—	8.00*	—	PAS	—		—		2.6	PAS	—		—		—	
1970 24	2:51:32.50	SIZ	—	5	37.293	116.553	0.3	C	176	3.00*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 25	5:42:12.40	SIZ	—	5	37.292	116.562	1.2	D	185	3.00*	—	HSF	—		—		—		1.5	HSF	—		—	
1970 26	16:59: 2.20		—	—	35.897	117.987	—		—	8.00	—	PDX	—		—		2.7	PDX	—		—		—	
1970 30	15:25:52.70		0.39	4	37.522	117.532	—		—	—	—	RYN	—		—		2.5	RYN	—		—		—	
1970 31	7:26:43.10		0.16	5	37.336	117.526	—		—	—	—	RYN	—		—		2.6	RYN	—		—		—	
1970 SEP 1	6:20: 1.80	SIZ	—	4	37.300	116.560	—	D	162	3.00*	—	HSF	—		—		—		1.0	HSF	—		—	
1970 2	2:34: 1.00	SIZ	—	5	37.292	116.547	0.7	C	157	3.00*	—	HSF	—		—		—		1.5	HSF	—		—	
1970 4	4: 6:26.70	SIZ	—	8	37.290	116.557	0.5	B	135	4.00	0.50	HSF	—		—		—		1.9	HSF	—		—	
1970 6	3:24: 9.30		0.69	10	37.445	117.671	—		—	—	—	RYN	—		—		2.9	RYN	—		—		—	
1970 6	6:41:42.60		0.31	4	37.434	117.689	—		—	—	—	RYN	—		—		2.5	RYN	—		—		—	
1970 6	13:11:49.10		0.34	6	37.429	117.677	—		—	—	—	RYN	—		—		3.1	RYN	—		—		2.9	PAS
1970 6	15:59:41.50		0.38	8	37.507	117.759	—		—	—	—	RYN	—		—		2.9	RYN	—		—		2.9	PAS
1970 7	9:24:40.40		0.18	6	37.376	117.700	—		—	—	—	RYN	—		—		2.9	RYN	—		—		2.9	PAS
1970 8	14:33:59.90		1.97	6	37.864	117.758	—		—	—	—	RYN	—		—		3.0	RYN	—		—		—	
1970 11	11:13:32.90	SIZ	—	5	37.287	116.550	0.4	C	166	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 11	13:39:41.44		—	7	38.174	116.400	—		—	5.00*	—	SHJ	—		—		—		0.6	SHJ	—		—	
1970 13	5:44:51.90	SIZ	—	5	37.312	116.552	0.5	C	157	3.00*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 13	6:15:48.90	SIZ	—	8	37.198	116.490	0.7	B	189	2.00	0.60	HSF	—		—		—		2.7	HSF	—		—	
1970 15	3: 7:11.90		0.29	5	37.305	117.568	—		—	—	—	RYN	—		—		2.9	RYN	—		—		2.7	PAS
1970 18	5: 5:25.60	SIZ	—	7	37.182	116.455	0.7	B	184	3.60	1.00	HSF	—		—		—		1.2	HSF	—		—	
1970 19	16:27:28.11		—	—	37.012	117.855	—		—	8.00*	—	GDY	—		—		3.1	PAS	—		—		3.8	BRK
1970 20	13: 1:25.66		—	3	38.436	116.033	—		—	5.00*	—	SHJ	—		—		—		0.2	SHJ	—		—	
1970 20	17: 4:10.50	SIZ	—	5	37.285	116.553	0.4	C	158	3.00*	—	HSF	—		—		—		—		—		—	
1970 21	14:59:40.70	SIZ	—	15	37.290	116.553	0.3	A	74	3.60	0.40	HSF	—		—		—		2.9	HSF	—		—	
1970 21	15:18:46.90	SIZ	—	11	37.290	116.550	0.3	B	131	4.00	0.30	HSF	—		—		—		2.0	HSF	—		—	
1970 21	15:22:55.00	SIZ	—	5	37.287	116.555	0.4	C	163	3.00*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 21	15:32:41.10	SIZ	—	5	37.287	116.553	0.5	C	166	3.00*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 22	9:30:33.60	SIZ	—	5	37.285	116.555	0.9	C	158	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 22	14: 2: 8.90	SIZ	—	5	37.287	116.555	0.4	C	163	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 22	17:26:28.40	SIZ	—	7	37.287	116.555	0.4	B	138	3.40	0.50	HSF	—		—		—		1.2	HSF	—		—	
1970 23	3:26:18.50	SIZ	—	5	37.285	116.553	0.4	C	159	3.00*	—	HSF	—		—		—		—		—		—	
1970 26	1:15:42.50		0.64	6	38.143	116.139	—		—	—	—	RYN	—		—		2.4	RYN	—		—		—	
1970 26	6:40:20.60	SIZ	—	5	37.285	116.555	0.4	C	160	3.00*	—	HSF	—		—		—		0.5	HSF	—		—	
1970 27	8:37:35.30	SIZ	—	6	37.283	116.555	0.6	B	156	3.10	0.80	HSF	—		—		—		0.4	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 SEP 28	0:47:15.60	SIZ	—	5	37.295	116.540	0.5	C	132	3.00*	—	HSF	—		—		—		0.6	HSF	—		—	
1970 28	8: 0:23.00		—	5	37.022	116.382	4.4	D	262	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 28	10:46: 9.62		—	11	38.217	116.393	—		—	5.00*	—	SHJ	—		—		—		1.4	SHJ	—		—	
1970 30	3: 6: 8.80	SIZ	—	9	37.192	116.202	2.4	D	268	0.60*	—	HSF	—		—		—		1.5	HSF	—		—	
1970 30	6: 3:19.90	SIZ	—	6	37.135	116.205	2.2	C	272	4.10	0.70	HSF	—		—		—		1.2	HSF	—		—	
1970 30	20: 2:29.60	SIZ	—	4	37.288	116.552	—	D	168	3.00*	—	HSF	—		—		—		0.2	HSF	—		—	
1970 OCT 1	0: 5:31.40	SIZ	—	11	37.252	116.515	0.3	A	70	5.30	0.60	HSF	—		—		—		0.9	HSF	—		—	
1970 2	11:55:20.10	SIZ	—	5	37.200	116.585	0.8	C	121	3.00*	—	HSF	—		—		—		0.2	HSF	—		—	
1970 3	8:31:26.50	SIZ	—	7	37.202	116.588	0.4	C	119	5.00*	—	HSF	—		—		—		0.7	HSF	—		—	
1970 3	8:50:46.90	SIZ	—	5	37.203	116.588	0.4	C	117	4.20*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 5	12:20:48.40	SIZ	—	4	37.292	116.558	—	D	176	3.00*	—	HSF	—		—		—		0.4	HSF	—		—	
1970 5	13:53:24.70	SIZ	—	5	37.292	116.548	0.4	C	127	3.00*	—	HSF	—		—		—		1.2	HSF	—		—	
1970 5	14:22:46.85		—	9	37.463	117.999	—		—	1.40	—	PHM	—		—		—		0.9	PHM	—		—	
1970 5	19: 9:25.00	SIZ	—	7	37.295	116.553	0.4	B	133	3.00	0.70	HSF	—		—		—		1.8	HSF	—		—	
1970 6	12:37:59.80	SIZ	—	11	37.308	116.543	0.2	A	104	3.60	0.30	HSF	—		—		—		1.8	HSF	—		—	
1970 8	4: 0:20.00		—	7	37.152	116.590	0.6	C	169	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 9	2: 7:15.80	SIZ	—	6	37.210	116.543	0.6	B	124	2.40	1.30	HSF	—		—		—		0.7	HSF	—		—	
1970 10	13:16:47.50	SIZ	—	8	37.298	116.547	0.3	B	129	3.30	0.30	HSF	—		—		—		1.2	HSF	—		—	
1970 13	15: 5: 1.48	SIZ	—	—	37.110	116.675	—		—	8.00*	—	GDY	—		—		3.8	PAS	—		—		3.8	GDY
1970 14	10:44:39.10	SIZ	—	7	37.285	116.557	0.9	B	159	3.60	1.00	HSF	—		—		—		1.1	HSF	—		—	
1970 14	11:41:51.85		—	5	37.305	117.706	—		—	3.00*	—	PHM	—		—		—		—		—		—	
1970 14	15:22:21.00	CSNL	—	22	36.900	115.700	—		—	—	—	ISC	—		—		—		—		—		4.4	ISC
1970 16	17:48: 3.70		—	9	37.158	116.665	1.2	C	151	3.00*	—	HSF	—		—		—		0.8	HSF	—		—	
1970 17	1:35:38.60	SIZ	—	4	37.328	116.402	—	D	178	3.00*	—	HSF	—		—		—		—		—		—	
1970 17	5:17:48.10	SIZ	—	7	37.285	116.553	0.4	B	159	3.50	0.50	HSF	—		—		—		0.9	HSF	—		—	
1970 17	19: 1:41.19		—	—	36.009	117.984	—	B	—	8.00*	—	PAS	—		—		2.7	PAS	—		—		—	
1970 18	11: 3:54.50		1.54	8	37.686	117.383	—		—	—	—	RYN	—		—		3.2	RYN	—		—		2.9	PAS
1970 19	14:17:18.60	SIZ	—	12	37.305	116.552	0.3	A	88	4.20	0.30	HSF	—		—		—		1.8	HSF	—		—	
1970 19	16:25:55.90	SIZ	—	11	37.290	116.547	0.3	A	119	3.60	0.30	HSF	—		—		—		1.8	HSF	—		—	
1970 19	16:49:10.50	SIZ	—	12	37.305	116.553	0.3	A	89	4.30	0.30	HSF	—		—		—		1.8	HSF	—		—	
1970 21	11:11:22.90	SIZ	—	11	37.302	116.557	0.3	A	88	4.10	0.30	HSF	—		—		—		1.9	HSF	—		—	
1970 21	11:30: 1.90	SIZ	—	11	37.300	116.555	0.2	A	85	4.20	0.20	HSF	—		—		—		2.0	HSF	—		—	
1970 21	14:55:53.00		—	5	37.053	116.653	3.5	D	280	3.00*	—	HSF	—		—		—		—		—		—	
1970 23	2: 7: 6.00		—	7	37.361	117.698	—		—	3.00*	—	PHM	—		—		—		0.5	PHM	—		—	
1970 23	13:10: 0.40	SIZ	—	6	37.285	116.552	0.9	B	159	3.20	1.10	HSF	—		—		—		0.9	HSF	—		—	
1970 23	17:19:44.70	SIZ	—	6	37.283	116.552	0.5	B	153	3.10	0.70	HSF	—		—		—		0.9	HSF	—		—	
1970 28	8:44:45.46		—	6	37.458	117.947	—		—	7.60	—	PHM	—		—		—		0.6	PHM	—		—	
1970 29	14:49: 2.00		—	5	37.485	117.985	—		—	6.60	—	PHM	—		—		—		—		—		—	
1970 30	3:13: 8.90		0.29	8	38.306	117.454	—		—	—	—	RYN	—		—		2.6	RYN	—		—		—	
1970 31	16:34:27.53		—	6	37.468	117.949	—		—	9.50	—	PHM	—		—		—		0.4	PHM	—		—	
1970 NOV 1	19:10:22.80		—	—	36.203	117.915	—	B	—	8.00*	—	PAS	—		—		3.0	PAS	—		—		—	
1970 2	23:53: 7.40	SIZ	—	7	37.145	116.243	1.9	C	268	2.70	1.00	HSF	—		—		—		0.1	HSF	—		—	
1970 3	2:12:28.00		—	4	37.175	116.605	—	D	194	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 3	2:19: 9.60		—	9	37.177	116.602	0.4	B	140	2.60	0.80	HSF	—		—		—		2.1	HSF	—		—	
1970 3	2:51:11.80	SIZ	—	6	37.303	116.383	0.2	B	137	3.90	0.40	HSF	—		—		—		0.6	HSF	—		—	
1970 3	16:41:25.00		0.83	9	37.521	115.306	—		—	—	—	RYN	—		—		3.8	RYN	—		—		—	
1970 5	16: 1: 0.00	CSNL	—	2	37.000	116.000	—		—	—	—	ISC	—		—		—		—		4.5	ISC	—	
1970 6	0: 2:11.70		—	7	37.100	116.488	1.5	D	257	3.00*	—	HSF	—		—		—		0.9	HSF	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 NOV 7	2:52:47.72		—	9	37.378	117.728	—		—	3.00*	—	PHM	—		—		—		1.1	PHM	—		—	
1970 7	22:41:52.02		—	5	37.341	117.698	—		—	3.00*	—	PHM	—		—		—		—		—		—	
1970 8	7:28:29.20	SIZ	—	5	37.262	116.570	2.6	C	104	2.20*	—	HSF	—		—		—		0.6	HSF	—		—	
1970 8	20: 7:44.40	SIZ	—	5	37.297	116.550	1.6	D	193	3.00*	—	HSF	—		—		—		—		—		—	
1970 9	8:32:39.20	SIZ	—	5	37.285	116.555	0.3	C	161	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 10	22:49:24.50	SIZ	—	13	37.123	116.267	0.7	B	225	4.00	0.40	HSF	—		—		—		1.8	HSF	—		—	
1970 12	22:56: 9.10	SIZ	—	8	37.295	116.563	0.4	B	212	3.90	0.30	HSF	—		—		—		1.8	HSF	—		—	
1970 13	1:58:47.60		—	5	37.058	116.440	2.4	D	227	3.00*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 13	2:37:41.10		—	6	37.070	116.430	0.6	B	219	7.60	1.60	HSF	—		—		—		0.7	HSF	—		—	
1970 13	10:13: 9.00		—	6	37.060	116.430	1.5	C	226	8.30	4.70	HSF	—		—		—		0.5	HSF	—		—	
1970 14	2:43:34.00		—	14	37.045	116.443	0.8	D	227	3.00*	—	HSF	—		—		—		2.2	HSF	—		—	
1970 14	3: 9:39.30		—	9	37.060	116.440	1.0	D	226	3.00*	—	HSF	—		—		—		1.2	HSF	—		—	
1970 15	7:56:39.00	SIZ	—	5	37.287	116.548	0.6	C	166	3.00*	—	HSF	—		—		—		0.7	HSF	—		—	
1970 15	9: 3:36.70	SIZ	—	5	37.287	116.548	0.6	C	165	3.00*	—	HSF	—		—		—		0.7	HSF	—		—	
1970 15	11: 1:55.59		—	5	37.251	117.673	—		—	3.00*	—	PHM	—		—		—		1.6	PHM	—		—	
1970 15	14:44:48.30	SIZ	—	6	37.283	116.552	2.3	C	305	3.20	0.60	HSF	—		—		—		2.0	HSF	—		—	
1970 16	9: 5:18.20	SIZ	—	6	37.283	116.560	0.4	C	239	3.20	0.40	HSF	—		—		—		1.4	HSF	—		—	
1970 16	12: 4:32.60	SIZ	—	7	37.287	116.565	0.3	C	243	2.70	0.20	HSF	—		—		—		1.9	HSF	—		—	
1970 17	21:24:13.70		—	5	37.007	116.572	0.8	D	266	3.00*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 19	15: 0: 0.00	SIZ	—	16	37.000	116.000	—		—	—	—	ISC	—		—		—		—		4.7	ISC	—	
1970 19	15:23:50.82	CSNL	—	—	36.877	116.134	—		—	8.00*	—	GDY	—		—		—		—		—		3.5	GDY
1970 19	23: 7:40.88		—	6	37.459	117.861	—		—	3.00*	—	PHM	—		—		—		—		—		—	
1970 22	0: 5: 2.00	SIZ	—	5	37.280	116.563	0.6	C	157	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 23	0:41:56.50	SIZ	—	6	37.173	116.472	0.6	B	141	10.80	2.30	HSF	—		—		—		0.2	HSF	—		—	
1970 25	8:32:13.03		—	6	37.469	117.952	—		—	11.30	—	PHM	—		—		—		0.6	PHM	—		—	
1970 25	21:49:33.80		1.51	8	37.965	116.283	—		—	—	—	RYN	—		—		3.1	RYN	—		—		—	
1970 27	6:40:20.90	SIZ	—	5	37.253	116.490	0.5	C	91	3.00*	—	HSF	—		—		—		0.4	HSF	—		—	
1970 DEC 1	9:24:15.10	SIZ	—	8	37.283	116.562	0.8	D	232	3.00*	—	HSF	—		—		2.5	RYN	2.6	HSF	—		—	
1970 1	10:47:46.90	SIZ	—	10	37.290	116.558	0.4	A	75	4.10	0.40	HSF	—		—		—		2.1	HSF	—		—	
1970 1	11:38: 9.70	SIZ	—	8	37.290	116.560	0.5	A	97	3.90	0.70	HSF	—		—		—		1.7	HSF	—		—	
1970 1	13: 8: 5.80	SIZ	—	4	37.292	116.555	—	D	177	3.00*	—	HSF	—		—		—		1.2	HSF	—		—	
1970 1	14:12:33.70	SIZ	—	5	37.282	116.560	0.3	C	152	3.00*	—	HSF	—		—		—		0.7	HSF	—		—	
1970 2	12:23:34.67	LM	—	—	36.032	114.719	—		—	8.00*	—	GDY	—		—		3.4	PDX	—		—		—	
1970 3	15: 6:59.40		1.48	7	37.152	115.524	—		—	—	—	RYN	—		—		3.1	RYN	—		—		—	
1970 3	15: 7: 3.70	SIZ	—	6	37.120	116.268	1.9	D	226	3.00*	—	HSF	—		—		—		2.7	HSF	—		—	
1970 5	1:15:12.40	SIZ	—	6	37.163	116.375	0.8	B	104	3.50	1.50	HSF	—		—		—		0.3	HSF	—		—	
1970 6	2:58:10.60	SIZ	—	5	37.282	116.563	0.3	C	153	3.00*	—	HSF	—		—		—		—		—		—	
1970 6	10:45:13.40	SIZ	—	12	37.290	116.562	0.2	A	74	3.90	0.20	HSF	—		—		—		2.2	HSF	—		—	
1970 6	18:27:25.80	SIZ	—	8	37.175	116.473	0.3	B	141	10.20	0.90	HSF	—		—		—		0.4	HSF	—		—	
1970 8	4:15:34.93		—	6	37.442	117.825	—		—	8.60	—	PHM	—		—		—		0.8	PHM	—		—	
1970 10	11: 8:53.50	SIZ	—	7	37.298	116.528	0.4	B	78	2.70	0.70	HSF	—		—		—		1.8	HSF	—		—	
1970 14	1:55:50.80	SIZ	—	5	37.285	116.563	0.3	C	156	2.40*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 15	17:47:57.40	SIZ	—	10	37.293	116.558	0.2	B	131	4.20	0.20	HSF	—		—		—		1.7	HSF	—		—	
1970 15	18:11:45.70	SIZ	—	5	37.290	116.558	0.6	C	174	3.00*	—	HSF	—		—		—		0.1	HSF	—		—	
1970 16	0:39:47.90	SIZ	—	6	37.103	116.300	0.9	C	193	3.00*	—	HSF	—		—		—		1.1	HSF	—		—	
1970 16	16:13: 0.00	CSNL	—	—	37.100	116.000	—		—	—	—	ISC	—		—		—		—		4.6	ISC	—	
1970 16	16:32: 0.00	CSNL	—	—	37.100	116.000	—		—	—	—	ISC	—		—		—		—		4.3	ISC	—	
1970 17	2:17:45.10	SIZ	—	6	37.283	116.553	0.4	B	156	2.80	0.90	HSF	—		—		—		1.0	HSF	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1970 DEC 17	2:23:13.40	SIZ	—	5	37.295	116.555	0.5	D	183	3.00*	—	HSF	—		—		—		0.7	HSF	—		—	
1970 17	13:27: 0.30	SIZ	—	7	37.287	116.550	0.5	C	170	3.00*	—	HSF	—		—		—		0.6	HSF	—		—	
1970 17	16:20:44.00	CSNL	—	5	36.500	116.300	—		—	—	—	ISC	—		—		—		—		—		—	
1970 18	4: 1:25.00	LM	—	—	36.000	114.800	—	A	—	3.00*	—	BRP	—		—		2.6	PDX	—		—		2.6	KKG
1970 18	8:21:30.60	LM	—	—	36.000	114.800	—	A	—	7.00*	—	BRP	—		—		3.0	PDX	—		—		—	
1970 18	9:18:34.20	LM	—	—	35.990	114.788	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	3.1	PDX	—		3.7	PDX	3.7	GDY
1970 18	11: 0:52.60	LM	—	—	36.000	114.800	—	A	—	3.00*	—	BRP	—		—		2.3	PDX	—		—		2.3	KKG
1970 18	12:35:30.70		—	6	37.195	116.595	0.4	B	122	3.70	0.70	HSF	—		—		—		0.3	HSF	—		—	
1970 23	23:24:15.30		—	12	37.483	116.607	0.9	C	279	11.80	1.00	HSF	—		—		—		1.8	HSF	—		—	
1970 25	11:27: 4.27		—	—	36.117	117.599	—		—	8.00*	—	GDY	—		—		3.1	PAS	—		—		3.1	GDY
1970 28	6:47:40.15		—	—	35.735	117.374	—	C	—	8.00*	—	PAS	—		—		2.9	PAS	—		—		—	
1970 29	7:16: 3.20		—	6	37.087	116.450	0.4	D	241	0.60*	—	HSF	—		—		—		0.9	HSF	—		—	
1970 29	15:30:36.20	SIZ	—	8	37.317	116.545	0.7	B	219	3.70	0.40	HSF	—		—		—		0.8	HSF	—		—	
1970 30	5:57:49.60	SIZ	—	11	37.288	116.557	0.5	A	72	2.80	0.80	HSF	—		—		—		2.0	HSF	—		—	
1970 30	13: 4:48.80		—	—	35.725	117.572	—		—	8.00*	—	GDY	5	PDX	3.7	BRP	4.4	PAS	—		4.8	PDX	4.6	PDX
1970 30	16:25:42.74		—	—	35.884	117.588	—	C	—	8.00*	—	PAS	—		—		2.6	PAS	—		—		—	
1970 31	4:52: 8.40	SIZ	—	5	37.332	116.452	0.7	D	270	3.00*	—	HSF	—		—		—		0.6	HSF	—		—	
1970 31	13:52:50.56		—	—	35.783	117.583	—	C	—	8.00*	—	PAS	—		—		3.2	PAS	—		—		—	
1971 JAN 1	6: 7:47.79		—	10	37.276	117.941	—		—	1.10	—	PHM	—		—		—		1.3	PHM	—		—	
1971 2	2:19:13.00		—	—	35.737	117.535	—	C	—	8.00	—	PAS	—		—		2.8	PAS	—		—		—	
1971 2	2:37:50.30		—	—	35.806	117.532	—	C	—	8.00	—	PAS	—		—		3.0	PAS	—		—		—	
1971 2	2:51:35.53		—	6	37.348	117.934	—		—	3.00*	—	PHM	—		—		—		0.9	PHM	—		—	
1971 2	7:59: 8.00		—	—	35.689	117.554	—	A	—	8.00	—	PAS	—		—		2.8	PAS	—		—		—	
1971 2	11:19:28.70		—	—	35.867	117.506	—	C	—	8.00	—	PAS	—		—		3.0	PAS	—		—		—	
1971 4	5:37:56.40		—	—	35.882	117.543	—	C	—	8.00	—	PAS	—		—		3.0	PAS	—		—		—	
1971 9	1:43:20.55		—	—	35.865	117.557	—	B	—	8.00*	—	PAS	—		—		2.9	PAS	—		—		—	
1971 9	16:52:46.67		—	—	35.711	117.549	—	B	—	8.00*	—	PAS	—		—		3.1	PAS	—		—		—	
1971 15	22:33:30.13		—	—	35.875	117.461	—	B	—	8.00*	—	PAS	—		—		3.2	PAS	—		—		—	
1971 21	3: 2:49.92		—	—	35.777	117.579	—	B	—	8.00*	—	PAS	—		—		2.7	PAS	—		—		—	
1971 21	5:38:20.98		—	—	35.806	117.545	—	C	—	8.00*	—	PAS	—		—		3.0	PAS	—		—		—	
1971 FEB 2	15:42: 3.51		—	—	35.906	117.382	—	B	—	8.00*	—	PAS	—		—		3.0	PAS	—		—		—	
1971 10	1:32:20.50		0.18	5	38.397	117.859	—		—	—	—	RYN	—		—		3.0	RYN	—		—		—	
1971 10	4:39:45.30		0.15	5	38.354	117.841	—		—	—	—	RYN	—		—		2.2	RYN	—		—		—	
1971 11	12:31:37.63		—	—	36.640	117.170	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 12	17: 3:59.75		—	—	37.158	114.838	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1971 13	1:36:21.22		—	—	36.390	117.330	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 14	7:37:58.56	SIZ	—	—	37.280	116.550	—		—	0.00*	—	KKG	—		—		2.6	RYN	—		—		—	
1971 16	9:11:49.57		—	—	36.530	116.220	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 20	10:48:49.20		—	—	38.500	116.710	—		—	8.00*	—	KKG	—		—		—		—		4.2	KKG	—	
1971 22	13:57:15.13		—	—	36.075	117.749	—		—	8.00*	—	GDY	—		—		3.1	PAS	—		—		3.1	GDY
1971 MAR 1	3:47:18.96		—	—	37.330	117.640	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 1	5:56: 6.53		—	—	37.810	117.880	—		—	16.50	—	KKG	—		—		—		—		—		—	
1971 1	6:16:58.56		—	—	37.680	117.860	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 1	10:16:11.22		—	—	37.830	117.910	—		—	20.00	—	KKG	—		—		—		—		—		—	
1971 3	3:27:44.30		—	—	37.010	117.500	—		—	10.80	—	KKG	—		—		—		—		—		—	
1971 5	1:27:41.24		—	—	37.390	115.420	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1971 8	13:24:23.77	LM	—	—	35.920	114.780	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 8	21: 4:52.27	SIZ	—	—	37.280	116.550	—		—	5.00*	—	KKG	—		—		—		—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1971 MAR 8	21:12:42.34	SIZ	—	—	37.280	116.590	—		—	19.40	—	KKG	—		—		—		—		—		—	
1971 9	17:41:48.85		—	—	35.670	115.730	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 12	11:23:59.60		—	—	37.310	117.740	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 13	23: 1:31.90		—	—	37.160	117.350	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 16	18: 2:43.73	SIZ	—	—	37.250	116.420	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1971 17	9:27:34.70	SIZ	—	—	37.270	116.580	—		—	1.00*	—	KKG	—		—		3.1	RYN	—		—		—	
1971 21	13:55:27.99	SIZ	—	—	37.100	116.240	—		—	4.50	—	KKG	—		—		—		—		—		—	
1971 24	0:44:48.93		—	—	36.380	117.330	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 25	10:17:16.10		—	—	36.700	115.730	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 25	19:30:46.67		—	—	35.810	117.570	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 26	16:45: 0.00	SIZ	—	—	37.000	116.000	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1971 27	17:32:37.02		—	—	36.670	115.480	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 27	20:18:26.26		—	—	35.910	117.240	—		—	14.20	—	KKG	—		—		—		—		—		—	
1971 29	13:22:36.01	LM	—	—	35.980	114.710	—		—	6.20	—	KKG	—		—		2.1	PDX	—		—		2.1	GDY
1971 APR 2	0: 2:56.15		—	—	35.960	117.030	—		—	20.60	—	KKG	—		—		—		—		—		—	
1971 2	3: 6: 3.81	SIZ	—	—	37.080	116.010	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 3	7:54:26.87		—	—	36.200	117.810	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 6	18: 7:50.59	SIZ	—	—	37.150	116.550	—		—	8.60	—	KKG	—		—		—		—		—		—	
1971 9	19:25:21.95		—	—	35.940	117.570	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 9	22:28:47.39		—	—	37.480	115.400	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 14	20: 5: 8.41		—	—	37.050	116.490	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 15	2:12:35.19		—	—	35.910	115.010	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 20	8:28:34.75	SIZ	—	—	37.080	116.210	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1971 22	7: 3:40.80		—	20	38.416	117.932	—		—	15.00*	—	ISC	—		—		—		—		—		—	
1971 23	0:29: 1.00	SIZ	—	—	37.000	116.000	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1971 23	11:26:37.91	SIZ	—	—	37.080	115.950	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 24	5:32:20.00		0.09	4	38.063	117.980	—		—	—	—	RYN	—		—		1.9	RYN	—		—		—	
1971 25	9:58:34.06		—	—	37.300	117.900	—		—	9.00	—	KKG	—		—		—		—		—		—	
1971 25	19:21:12.33	SIZ	—	—	37.220	116.600	—		—	6.50	—	KKG	—		—		—		—		—		—	
1971 27	20:55: 8.83		—	—	37.100	117.440	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 29	19: 0: 0.00	HE	—	13	37.122	116.333	—		—	—	—	PDX	—		—		—		—		—		—	
1971 MAY 2	0:23:13.65		—	—	35.920	115.510	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 4	1:10:22.39		—	—	37.310	117.080	—		—	0.00*	—	KKG	—		—		2.9	RYN	—		—		—	
1971 4	1:14:25.22		—	—	37.300	117.100	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 4	1:15:31.73		—	—	37.310	117.140	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 6	6:12:55.83		—	—	37.140	117.350	—		—	0.00*	—	KKG	—		—		2.3	RYN	—		—		—	
1971 6	22:32:39.35	LM	—	—	36.450	114.500	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1971 7	0:22:23.40		—	—	37.170	117.390	—		—	5.00*	—	KKG	—		—		2.3	RYN	—		—		—	
1971 8	20:56:31.93		—	—	36.440	115.660	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 9	8:29:29.08		—	—	37.130	117.380	—		—	0.00*	—	KKG	—		—		2.8	RYN	—		—		3.0	BRK
1971 10	0: 4:58.94		—	—	37.520	117.940	—		—	13.80	—	KKG	—		—		2.3	RYN	—		—		—	
1971 10	2:47:21.17		—	—	37.540	117.940	—		—	13.10	—	KKG	—		—		2.2	RYN	—		—		—	
1971 10	8:44:28.46		—	—	37.290	116.870	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1971 11	17:11:55.90		0.02	4	37.581	117.963	—		—	—	—	RYN	—		—		2.8	RYN	—		—		—	
1971 13	23:40:34.90		0.23	5	37.177	116.750	—		—	—	—	RYN	—		—		3.1	RYN	—		—		—	
1971 22	15:44:31.26		—	—	37.260	117.610	—		—	0.00*	—	KKG	—		—		2.2	RYN	—		—		—	
1971 23	18:46:17.50		—	—	35.967	117.753	—	B	—	8.00*	—	PAS	—		—		2.4	PAS	—		—		—	
1971 23	19:13:26.88		—	—	38.480	116.810	—		—	0.00*	—	KKG	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1971 MAY 23	19:49:34.03		—	—	36.510	116.790	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 24	4:10:31.15		—	—	36.680	117.640	—		—	5.00*	—	KKG	—		—		2.6	PAS	—		—		2.6	GDY
1971 24	5:20:30.59		—	—	36.130	117.868	—	C	—	8.00*	—	PAS	—		—		2.9	PAS	—		—		—	
1971 JUN 5	1:14: 4.60		0.06	4	38.478	117.847	—		—	—	—	RYN	—		—		2.0	RYN	—		—		—	
1971 10	0:17:25.57		—	—	35.660	116.630	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 11	7:18:31.30		—	—	37.270	117.900	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 19	7:54:58.98		—	—	36.620	115.980	—		—	8.30	—	KKG	—		—		—		—		—		—	
1971 23	15:29: 0.09	SIZ	—	—	37.090	116.000	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 24	10:30:13.00		—	8	37.100	117.900	—		—	—	—	BRK	—		—		3.2	BRK	—		—		—	
1971 24	14:45:24.98		—	—	35.975	117.932	—	B	—	1.00*	—	PAS	—		—		2.3	PAS	—		—		—	
1971 26	5:19: 0.30		—	—	35.870	116.720	—		—	8.00*	—	KKG	—		—		3.3	PAS	—		—		3.3	GDY
1971 28	19: 0:45.39		—	—	36.760	116.280	—		—	5.40	—	KKG	—		—		—		—		—		—	
1971 30	11:16:30.90		—	—	37.340	116.070	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 JUL 6	6: 5:35.78	SIZ	—	—	37.280	116.550	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 6	7:23:32.25	SIZ	—	—	37.300	116.560	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 6	19:22:40.12		—	—	37.510	116.530	—		—	15.00*	—	KKG	4	BRP	3.0	BRP	3.3	RYN	—		3.6	KKG	3.6	GDY
1971 7	4: 8:10.62	SIZ	—	—	36.730	116.040	—		—	6.20	—	KKG	—		—		—		—		—		—	
1971 7	9:44:35.27		—	—	37.780	116.190	—		—	38.70	—	KKG	—		—		2.5	RYN	—		—		—	
1971 9	14: 0: 2.40	SIZ	—	4	37.037	116.143	—		—	15.00*	—	ISC	—		—		—		—		—		—	
1971 14	22:29:39.43	SIZ	—	—	37.210	116.200	—		—	9.00	—	KKG	—		—		—		—		—		—	
1971 14	23:27:44.22		—	—	35.820	115.320	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 17	20: 2: 8.63		—	—	37.120	115.830	—		—	12.90	—	KKG	—		—		—		—		—		—	
1971 21	19:36:10.80		0.25	6	38.417	117.841	—		—	—	—	RYN	—		—		2.1	RYN	—		—		—	
1971 24	8: 9:45.10		0.39	5	35.610	117.993	—		—	—	—	RYN	—		—		—		—		—		—	
1971 24	14:55:30.50		—	—	35.919	117.280	—		—	8.00*	—	GDY	—		—		2.9	PAS	—		—		2.9	GDY
1971 25	23:47:59.29		—	—	36.960	117.760	—		—	7.50	—	KKG	—		—		—		—		—		—	
1971 27	2:11:52.28	SIZ	—	—	36.840	115.920	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 28	11:14:59.15		—	—	37.690	116.000	—		—	10.00*	—	KKG	—		—		2.0	RYN	—		—		—	
1971 29	5:19:29.20		—	—	36.740	116.260	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 29	5:40: 9.50		—	—	35.710	116.490	—		—	15.40	—	KKG	—		—		3.2	PAS	—		—		2.8	GDY
1971 31	0:15:10.59		—	—	37.430	115.090	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 AUG 5	17:58:17.66	SIZ	0.18	20	36.916	115.990	0.8	B	92	4.60	2.80	FPH	4	KKG	4.0	BRP	4.8	RYN	3.5	FPH	4.3	KKG	4.5	KKG
1971 5	18:13:25.62	SIZ	—	—	36.910	115.990	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 5	18:18:11.18	SIZ	0.09	8	36.886	116.000	0.8	C	173	6.10	4.00	FPH	—		—		—		2.6	FPH	—		—	
1971 5	18:41:40.41	SIZ	0.09	7	36.915	115.984	7.2	D	282	6.80	6.80	FPH	—		—		—		1.3	FPH	—		—	
1971 5	18:43: 9.14	SIZ	—	—	36.910	115.980	—		—	2.90	—	KKG	—		—		—		—		—		—	
1971 5	18:44: 5.09	SIZ	—	—	36.930	115.980	—		—	5.00	—	KKG	—		—		—		—		—		—	
1971 5	18:53:13.09	SIZ	—	—	36.910	115.980	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 5	18:55:35.91	SIZ	—	—	36.890	115.980	—		—	6.00	—	KKG	—		—		—		—		—		—	
1971 5	19: 8:13.00	SIZ	—	—	36.910	115.960	—		—	4.30	—	KKG	—		—		—		—		—		—	
1971 5	19:15: 4.35	SIZ	—	—	36.920	115.980	—		—	10.00	—	KKG	—		—		—		—		—		—	
1971 5	19:16:12.91	SIZ	0.06	5	36.901	115.992	1.3	C	174	9.70	1.50	FPH	—		—		—		1.7	FPH	—		—	
1971 5	19:17:29.40	SIZ	—	—	36.910	115.960	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 5	19:24: 9.88	SIZ	—	—	36.910	115.990	—		—	5.90	—	KKG	—		—		—		—		—		—	
1971 5	19:36:29.34	SIZ	—	—	36.910	115.960	—		—	2.70	—	KKG	—		—		—		—		—		—	
1971 5	20: 2:15.67	SIZ	0.13	10	36.894	116.010	0.9	B	114	10.00	1.40	FPH	—		—		—		2.2	FPH	—		—	
1971 5	20: 8: 2.48	SIZ	—	—	36.920	116.010	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 5	20:46:36.89	SIZ	0.16	10	36.897	116.010	1.1		114	7.70	2.20	FPH	4	BRP	3.0	BRP	—		3.0	FPH	3.9	KKG	—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1971 AUG 5	20:47:38.03		—	—	38.030	115.990	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 5	20:56:16.38	SIZ	—	—	36.900	115.980	—		—	6.20	—	KKG	—		—		—		—		—		—	
1971 5	21:41:36.09	SIZ	—	—	36.910	115.970	—		—	-0.10	—	KKG	—		—		—		—		—		—	
1971 5	22:20: 2.91	SIZ	0.49	13	36.893	115.938	2.5	C	81	9.00	3.90	FPH	—		—		—		3.1	FPH	—		—	
1971 5	22:41:41.59	SIZ	0.09	9	36.889	115.986	0.7	B	119	10.40	1.40	FPH	—		—		—		2.8	FPH	—		—	
1971 5	22:43:40.99	SIZ	0.13	10	36.890	116.006	0.9	B	115	10.00	1.70	FPH	—		—		3.3	RYN	2.9	FPH	—		—	
1971 5	22:56:16.85	SIZ	—	—	36.900	115.990	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 5	23: 6:34.60	SIZ	0.11	8	36.909	116.009	1.2	C	163	8.50	1.40	FPH	—		—		—		1.5	FPH	—		—	
1971 6	0: 1:19.17	SIZ	—	—	36.910	116.020	—		—	6.40	—	KKG	—		—		—		—		—		—	
1971 6	0: 6:53.61	SIZ	0.04	5	36.909	116.009	1.4	C	216	10.40	1.10	FPH	—		—		—		1.8	FPH	—		—	
1971 6	0:11:42.09	SIZ	—	—	36.890	115.970	—		—	5.20	—	KKG	—		—		—		—		—		—	
1971 6	0:27:47.09	SIZ	0.10	5	36.909	116.000	28.6	D	286	7.10	23.40	FPH	—		—		—		1.9	FPH	—		—	
1971 6	0:31:33.74	SIZ	—	—	36.900	115.990	—		—	6.80	—	KKG	—		—		—		—		—		—	
1971 6	0:55:49.47	SIZ	0.12	8	36.879	116.000	2.0	C	229	10.40	1.70	FPH	—		—		—		1.8	FPH	—		—	
1971 6	0:56:50.21	SIZ	—	—	36.890	115.980	—		—	6.60	—	KKG	—		—		—		—		—		—	
1971 6	0:58:17.70	SIZ	0.03	4	36.919	115.997	0.4	C	275	7.80	—	FPH	—		—		—		1.3	FPH	—		—	
1971 6	1:31:26.03	SIZ	—	—	36.900	116.030	—		—	6.70	—	KKG	—		—		—		—		—		—	
1971 6	1:42:50.06	SIZ	—	—	36.880	115.990	—		—	6.20	—	KKG	—		—		—		—		—		—	
1971 6	1:47: 3.80	SIZ	0.09	7	36.888	116.004	2.0	C	224	9.20	1.50	FPH	—		—		—		1.7	FPH	—		—	
1971 6	2:11:51.81	SIZ	—	—	36.870	115.980	—		—	5.80	—	KKG	—		—		—		—		—		—	
1971 6	2:41:46.56	SIZ	—	—	36.890	115.980	—		—	4.50	—	KKG	—		—		—		—		—		—	
1971 6	2:44:23.91	SIZ	0.07	8	36.875	115.998	1.5	C	234	10.30	1.30	FPH	—		—		—		2.1	FPH	—		—	
1971 6	3:15: 4.09	SIZ	0.05	5	36.866	115.959	2.6	D	248	10.70	2.00	FPH	—		—		—		1.5	FPH	—		—	
1971 6	5:41:50.51	SIZ	—	—	36.880	115.940	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 6	6:19:31.12	SIZ	—	—	36.900	115.970	—		—	10.00	—	KKG	—		—		—		—		—		—	
1971 6	6:28:26.48	SIZ	—	—	36.880	115.940	—		—	3.00	—	KKG	—		—		—		—		—		—	
1971 6	6:33:52.36	SIZ	—	—	36.880	115.970	—		—	4.40	—	KKG	—		—		—		—		—		—	
1971 6	7:50:12.23	SIZ	—	—	36.890	115.960	—		—	1.10	—	KKG	—		—		—		—		—		—	
1971 6	8:39: 0.51	SIZ	—	—	36.890	115.960	—		—	6.80	—	KKG	—		—		—		—		—		—	
1971 6	9: 8:12.72	SIZ	—	—	36.890	115.980	—		—	8.00	—	KKG	—		—		—		—		—		—	
1971 6	10: 6:42.35	SIZ	—	—	36.900	115.970	—		—	8.00	—	KKG	—		—		—		—		—		—	
1971 6	11: 6:46.89	SIZ	—	—	36.890	115.920	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 6	21:11:27.60	SIZ	—	—	36.900	115.980	—		—	0.10	—	KKG	—		—		—		—		—		—	
1971 6	22:38:35.06	SIZ	—	—	36.890	115.950	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 7	1:26:36.82	SIZ	—	—	36.880	115.950	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 7	2:21:12.73	SIZ	—	—	36.890	115.980	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 7	15:36: 1.67	SIZ	—	—	36.890	115.960	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 8	2:32: 6.55	SIZ	0.02	5	36.898	116.041	0.4		164	9.40	0.50	FPH	4	BRP	3.0	BRP	3.2	RYN	2.5	FPH	3.7	KKG	3.7	GDY
1971 9	1:52:17.01	SIZ	—	—	36.900	115.940	—		—	0.00*	—	KKG	—		—		3.6	RYN	—		—		—	
1971 10	0: 2:25.58		—	—	37.430	116.000	—		—	6.30	—	KKG	—		—		—		—		—		—	
1971 10	6:21:39.02	SIZ	—	—	36.890	115.850	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 10	8:16:50.75	SIZ	—	—	36.890	115.870	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 11	11:35:47.17	SIZ	—	—	36.880	115.960	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 11	14:20:52.71	SIZ	—	—	36.890	115.970	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 12	0:36: 8.42	SIZ	—	—	36.910	115.990	—		—	5.20	—	KKG	—		—		—		—		—		—	
1971 12	19:53: 6.65	SIZ	—	—	36.890	115.970	—		—	9.60	—	KKG	—		—		—		—		—		—	
1971 15	7:51:41.71	SIZ	—	—	36.900	115.990	—		—	6.30	—	KKG	—		—		—		—		—		—	
1971 15	17: 0:40.99	SIZ	—	—	36.910	115.990	—		—	10.00	—	KKG	—		—		—		—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1971 AUG 15	17:43:23.56	SIZ	—	—	36.870	115.930	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 16	4: 1:15.92		—	—	37.360	114.680	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1971 16	10:41:52.52	SIZ	—	—	36.910	115.980	—		—	3.60	—	KKG	—		—		—		—		—		—	
1971 18	14:38: 8.85		—	—	36.730	116.080	—		—	10.40	—	KKG	—		—		—		—		—		—	
1971 18	15:46:56.46	SIZ	—	—	36.900	115.970	—		—	9.90	—	KKG	—		—		—		—		—		—	
1971 18	22:30:38.37		—	—	37.980	116.360	—		—	10.00*	—	KKG	—		—		2.6	RYN	—		—		—	
1971 21	20:27: 6.26	SIZ	—	—	36.780	115.900	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 22	6:23:47.08	SIZ	—	—	36.910	115.940	—		—	0.00*	—	KKG	—		—		2.3	RYN	—		—		—	
1971 25	2:23:46.30		0.51	4	36.816	116.242	—		—	—	—	RYN	—		—		2.5	RYN	—		—		—	
1971 28	17:49:56.90		0.37	6	38.296	116.000	—		—	—	—	RYN	—		—		3.9	RYN	—		—		3.4	GDY
1971 28	18:16: 0.12		—	—	38.210	115.840	—		—	8.90	—	KKG	—		—		—		—		—		—	
1971 29	11:31:15.11		—	—	36.970	117.430	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 31	3: 9:26.30		0.39	7	38.464	117.872	—		—	—	—	RYN	—		—		2.7	RYN	—		—		—	
1971 31	5:57:25.70		0.27	6	38.491	117.928	—		—	—	—	RYN	—		—		2.6	RYN	—		—		—	
1971 31	6:52:38.20		0.20	5	38.482	117.905	—		—	—	—	RYN	—		—		2.3	RYN	—		—		—	
1971 31	7:11:20.70		0.24	5	38.473	117.890	—		—	—	—	RYN	—		—		3.1	RYN	—		—		—	
1971 31	7:14:53.10		0.11	4	38.495	117.906	—		—	—	—	RYN	—		—		2.2	RYN	—		—		—	
1971 31	7:24:20.20	SIZ	—	—	36.870	115.940	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 31	17:25:49.60		—	—	36.740	117.580	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 SEP 4	13:44:28.15	SIZ	—	—	36.900	115.970	—		—	3.90	—	KKG	—		—		—		—		—		—	
1971 4	14:28: 1.53	SIZ	—	—	36.900	115.970	—		—	1.60	—	KKG	—		—		—		—		—		—	
1971 5	3:50:38.36		—	—	36.520	116.940	—		—	16.70	—	KKG	—		—		—		—		—		—	
1971 5	20:30:16.26		—	—	37.300	117.350	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1971 7	8:53:11.58	SIZ	—	—	37.060	116.190	—		—	3.30	—	KKG	—		—		—		—		—		—	
1971 10	1: 8:20.70		1.62	5	38.425	116.468	—		—	—	—	RYN	—		—		2.6	RYN	—		—		—	
1971 10	6:34:20.19	SIZ	—	—	36.900	115.980	—		—	8.10	—	KKG	—		—		—		—		—		—	
1971 10	11:22:24.12	SIZ	—	—	37.020	116.010	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 10	13:39:20.84	SIZ	—	—	37.020	116.020	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 11	23:23:28.60		0.06	4	38.262	117.833	—		—	—	—	RYN	—		—		2.3	RYN	—		—		—	
1971 13	1:15:46.89		—	—	36.620	117.120	—		—	13.90	—	KKG	—		—		—		—		—		—	
1971 13	1:24:32.16		—	—	36.620	117.130	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 13	1:42:46.48		—	—	36.630	117.130	—		—	12.40	—	KKG	—		—		—		—		—		—	
1971 19	15:39:38.59		—	—	36.790	115.730	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 22	10:29:50.00		—	—	36.500	116.500	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1971 22	10:39:53.31		—	—	35.616	117.872	—		—	8.00*	—	GDY	—		—		3.1	PAS	—		—		3.1	GDY
1971 22	13:59:59.10	SIZ	1.76	6	36.965	115.921	—		—	—	—	RYN	—		—		3.9	RYN	—		—		—	
1971 22	14:46:40.30		—	—	37.300	117.340	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 23	11:12:53.66	SIZ	—	—	36.880	115.940	—		—	3.90	—	KKG	—		—		—		—		—		—	
1971 26	3:32:43.77	SIZ	—	—	37.340	116.570	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 OCT 6	22:23:34.11	SIZ	—	—	36.910	115.950	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 7	5:51:20.17	SIZ	—	—	36.900	115.960	—		—	6.10	—	KKG	—		—		—		—		—		—	
1971 7	9:27:58.17	SIZ	—	—	36.880	116.010	—		—	0.00*	—	KKG	4	BRP	3.0	BRP	3.3	RYN	—		3.9	KKG	3.9	GDY
1971 7	9:55:22.31	SIZ	—	—	36.890	115.960	—		—	9.30	—	KKG	—		—		—		—		—		—	
1971 7	16:21:31.71	SIZ	—	—	36.890	116.020	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 7	21:28:49.84	SIZ	—	—	36.890	116.020	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 10	9:27:25.03	SIZ	—	—	37.200	116.290	—		—	1.00	—	KKG	—		—		—		—		—		—	
1971 12	11: 2: 1.60	SIZ	—	—	36.870	115.970	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 14	14:30: 1.02	SIZ	—	—	37.146	116.031	—		—	8.00*	—	GDY	5	BRP	4.0	BRP	—		—		4.4	PDX	4.4	GDY

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1971 OCT 17	3:41:45.23	SIZ	—	—	36.910	115.980	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 19	21:20:12.60		—	—	37.450	117.860	—		—	17.50	—	KKG	—		—		—		—		—		—	
1971 22	7:31:19.79	SIZ	—	—	36.880	115.960	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 23	16:13:49.21		—	—	36.960	117.020	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 23	20: 0:53.63		—	—	37.130	117.290	—		—	10.00*	—	KKG	—		—		2.2	RYN	—		—		—	
1971 28	2:17: 8.69		—	—	36.960	117.520	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 28	23:57:58.20		0.07	5	37.514	117.915	—		—	—	—	RYN	—		—		—		—		—		—	
1971 30	5:42:57.60		0.29	5	38.452	117.855	—		—	—	—	RYN	—		—		2.8	RYN	—		—		—	
1971 30	17:11:22.72	SIZ	—	—	36.890	115.970	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1971 NOV 1	10: 8:31.90		—	—	36.590	115.190	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 1	17:28:43.92	SIZ	—	—	38.890	115.950	—		—	1.50	—	KKG	—		—		—		—		—		—	
1971 9	13:42:47.04		—	—	36.062	117.717	—	A	—	8.00*	—	PAS	—		—		2.5	PAS	—		—		—	
1971 16	23:31:29.91	SIZ	—	—	36.890	116.000	—		—	5.30	—	KKG	—		—		—		—		—		—	
1971 17	4:23:31.18	SIZ	—	—	36.900	116.010	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 17	5:29: 9.30	SIZ	—	—	36.880	116.000	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 17	12:50:49.45		—	—	37.200	114.600	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 18	12:53: 2.97		—	—	37.300	115.250	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 22	10:50:31.54		—	—	37.320	115.290	—		—	18.20	—	KKG	—		—		—		—		—		—	
1971 22	14: 3:33.79		—	—	37.720	114.930	—		—	13.10	—	KKG	—		—		—		—		—		—	
1971 23	0:44:50.01	SIZ	—	—	36.870	115.990	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1971 24	9:57:54.80		0.98	4	38.500	117.869	—		—	—	—	RYN	—		—		1.6	RYN	—		—		—	
1971 24	20:15:20.00		—	—	35.867	117.133	—	D	—	16.00*	—	PAS	—		—		3.8	PAS	—		—		—	
1971 25	16:24:40.03		—	—	37.190	116.690	—		—	10.70	—	KKG	—		—		—		—		—		—	
1971 25	18:27:25.00		0.70	7	37.795	114.950	—		—	—	—	RYN	—		—		3.7	RYN	—		—		—	
1971 28	6: 0: 6.58		—	—	37.170	116.670	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 30	15:45: 1.41	SIZ	—	—	37.136	116.090	—		—	8.00*	—	GDY	6	BRP	5.0	BRP	4.3	BRK	—		4.7	PDX	4.7	GDY
1971 DEC 3	18:52:54.10		0.13	5	38.479	117.855	—		—	—	—	RYN	—		—		1.8	RYN	—		—		—	
1971 8	15:23:52.91		—	—	37.710	115.080	—		—	10.100	—	KKG	—		—		3.5	RYN	—		—		—	
1971 8	15:26:33.20		—	—	37.760	115.080	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 8	15:33:44.73		—	—	37.720	115.060	—		—	9.80	—	KKG	—		—		—		—		—		3.6	KKG
1971 8	15:33:59.90		1.07	5	38.126	115.978	—		—	—	—	RYN	—		—		3.6	RYN	—		—		—	
1971 8	15:41:16.16		—	—	37.770	115.070	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 8	15:43:55.25		—	—	37.760	115.070	—		—	0.00	—	KKG	—		—		—		—		—		—	
1971 8	16: 2:41.54		—	—	37.770	115.080	—		—	13.10	—	KKG	—		—		—		—		—		—	
1971 8	17:18:40.91		—	—	38.330	114.600	—		—	0.00*	—	KKG	4	KKG	—		4.7	PAS	—		4.8	KKG	4.8	GDY
1971 8	17:38: 6.64		—	—	37.710	114.990	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 8	18:15:12.02		—	—	37.730	115.050	—		—	0.00*	—	KKG	—		—		2.6	RYN	—		—		—	
1971 8	18:18: 8.08		—	—	37.750	115.080	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 8	18:27: 4.57		—	—	37.810	114.940	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 8	18:32:28.02		—	—	37.720	115.130	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 8	19:45:30.92		—	—	37.600	114.760	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1971 8	19:55: 1.03		—	—	37.730	115.040	—		—	0.00	—	KKG	—		—		—		—		—		—	
1971 8	21:35:12.91		—	—	37.710	115.040	—		—	0.00	—	KKG	—		—		—		—		—		—	
1971 8	21:43:29.15		—	—	37.720	115.040	—		—	0.00	—	KKG	—		—		—		—		—		—	
1971 8	22:46:10.54		—	—	37.720	115.050	—		—	0.00	—	KKG	—		—		—		—		—		—	
1971 9	0:47:20.65		—	—	37.770	115.070	—		—	11.60	—	KKG	—		—		—		—		—		—	
1971 9	0:53:20.41		—	—	37.700	114.960	—		—	16.50	—	KKG	—		—		—		—		—		—	
1971 9	1: 4:24.51		—	—	37.720	114.950	—		—	10.00*	—	KKG	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1971 DEC 9	2: 1:59.78		—	—	37.750	115.030	—		—	0.00	—	KKG	—		—		—		—		—		—	
1971 9	2:41:17.87		—	—	37.750	115.040	—		—	0.00	—	KKG	—		—		—		—		—		—	
1971 9	4: 6: 1.61		—	—	37.710	115.000	—		—	0.00	—	KKG	—		—		—		—		—		—	
1971 9	4:16:30.56		—	—	37.720	115.020	—		—	0.00	—	KKG	—		—		—		—		—		—	
1971 9	6:51:11.01		—	—	37.760	115.040	—		—	13.80	—	KKG	—		—		—		—		—		—	
1971 9	10: 3:12.77		—	—	37.700	115.060	—		—	0.00	—	KKG	—		—		—		—		—		—	
1971 9	15: 7:23.74		—	—	37.770	115.090	—		—	8.80	—	KKG	—		—		—		—		—		—	
1971 9	15:42: 4.77		—	—	37.710	114.950	—		—	16.20	—	KKG	—		—		—		—		—		—	
1971 9	23:48:18.46		—	—	37.740	115.050	—		—	17.80	—	KKG	—		—		—		—		—		—	
1971 11	9:12: 3.11		—	—	37.680	115.030	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 12	9:40:17.41		—	—	37.720	114.960	—		—	13.20	—	KKG	—		—		—		—		—		—	
1971 12	22:11: 2.30		0.05	5	38.161	116.989	—		—	—	—	RYN	—		—		2.1	RYN	—		—		—	
1971 15	0:11: 1.50		0.26	6	38.053	117.192	—		—	—	—	RYN	—		—		1.7	RYN	—		—		—	
1971 15	4:36:22.55		—	—	36.980	116.900	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 15	20:28:39.98	SIZ	—	—	37.120	116.320	—		—	5.00*	—	KKG	—		—		3.0	RYN	—		—		—	
1971 16	10: 5: 3.76		—	—	37.680	115.020	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 17	18:21:32.63		—	—	37.690	115.020	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 17	22: 1:45.07		—	—	37.730	115.060	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1971 18	1:34:47.93	LM	—	—	38.050	114.760	—		—	0.00	—	KKG	—		—		—		—		—		—	
1971 19	0:45:53.40		0.03	4	38.169	117.018	—		—	—	—	RYN	—		—		1.9	RYN	—		—		—	
1971 19	11:24:25.24		—	—	37.600	115.080	—		—	23.10	—	KKG	—		—		—		—		—		—	
1971 19	18:15:54.20		—	—	38.000	115.170	—		—	23.00	—	KKG	—		—		—		—		—		—	
1971 24	9:12:31.73	LM	—	—	36.050	114.700	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1971 24	13:19:12.94		—	—	37.650	115.050	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1971 26	0:12:12.83		—	—	37.740	115.060	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1971 26	6: 3:55.30		0.06	5	37.342	114.331	—		—	—	—	RYN	5	BRP	4.0	BRP	4.2	RYN	—		4.1	ISC	4.1	GDY
1971 27	0:43:51.10		0.34	7	38.422	117.831	—		—	—	—	RYN	—		—		2.7	RYN	—		—		—	
1971 28	0:43:49.47		—	—	38.420	117.970	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 29	8: 5: 6.63		—	—	36.390	117.850	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1971 30	8:44:19.08	SIZ	—	—	36.940	115.970	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1971 30	16: 2:47.60		0.41	5	38.146	117.963	—		—	—	—	RYN	—		—		1.5	RYN	—		—		—	
1972 JAN 2	8:42:29.08		—	—	37.690	114.980	—		—	13.60	—	KKG	—		—		—		—		—		—	
1972 2	16:35:14.37		—	—	36.270	117.330	—		—	25.20	—	KKG	—		—		—		—		—		—	
1972 6	10:10:40.31		—	—	35.740	117.710	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 6	23:59: 5.86		—	—	37.400	116.080	—		—	13.90	—	KKG	—		—		—		—		—		—	
1972 8	8:15:19.85		—	—	36.600	115.780	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 8	12:22: 0.02		—	—	36.860	117.560	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 8	14: 7: 8.08	SIZ	—	—	37.030	116.070	—		—	8.30	—	KKG	—		—		—		—		—		—	
1972 10	14:18:54.22		—	—	37.740	115.090	—		—	13.00	—	KKG	—		—		—		—		—		—	
1972 10	14:48:30.40		—	—	37.750	115.100	—		—	14.90	—	KKG	—		—		—		—		—		—	
1972 10	15: 4:23.26		—	—	37.730	115.090	—		—	17.10	—	KKG	—		—		—		—		—		—	
1972 12	7:32: 8.62		—	—	37.720	115.120	—		—	16.40	—	KKG	—		—		—		—		—		—	
1972 13	16:22:34.71		—	—	37.330	117.450	—		—	20.00	—	KKG	—		—		2.2	RYN	—		—		—	
1972 14	10: 6: 9.75		—	—	37.770	115.110	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 15	20:51:57.80	SIZ	—	—	36.990	115.980	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 19	2: 0:33.30		—	—	35.940	115.210	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 19	15:43:58.50	SIZ	—	—	36.960	115.880	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 21	22:36:37.18		—	—	36.710	115.320	—		—	10.00*	—	KKG	—		—		—		—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 JAN 22	0:40:29.57		—	—	36.780	115.400	—	—	—	1.00	—	KKG	—		—		—		—		—		—	
1972 22	23:11:51.60		—	—	36.750	115.400	—	—	—	0.00*	—	KKG	—		—		—		—		—		—	
1972 24	10:59: 7.15		—	—	37.250	115.900	—	—	—	1.00	—	KKG	—		—		—		—		—		—	
1972 24	13:30:54.41		—	—	36.750	115.460	—	—	—	14.80	—	KKG	—		—		3.6	RYN	—		—		3.2	PAS
1972 26	14:56:22.76		—	—	36.110	117.940	—	—	—	0.00*	—	KKG	—		1.2	BRP	2.5	PAS	—		—		—	
1972 27	8:45:12.67		—	—	36.040	117.960	—	—	—	10.00*	—	KKG	—		—		—		—		—		—	
1972 28	15:26:51.23		—	—	37.230	117.330	—	—	—	15.00	—	KKG	—		—		—		—		—		—	
1972 30	18:17:57.75	SIZ	—	—	37.210	116.600	—	—	—	0.00	—	KKG	—		—		—		—		—		—	
1972 FEB 1	13:49: 5.93	SIZ	—	—	36.920	115.970	—	—	—	3.40	—	KKG	—		—		—		—		—		—	
1972 6	6:35:40.84	SIZ	—	—	36.930	115.980	—	—	—	5.70	—	KKG	—		—		—		—		—		—	
1972 8	7:51:41.71		—	—	36.690	116.340	—	—	—	6.80	—	KKG	—		—		—		—		—		—	
1972 8	11:17:42.53		—	—	36.590	116.600	—	—	—	7.30	—	KKG	—		—		—		—		—		—	
1972 10	23:47:12.06		—	—	35.940	115.510	—	—	—	5.00*	—	KKG	—		—		—		—		—		—	
1972 14	2:10:17.03	SIZ	—	—	37.240	116.520	—	—	—	5.50	—	KKG	—		—		—		—		—		—	
1972 14	12: 5:52.06		—	—	36.860	116.270	—	—	—	7.60	—	KKG	—		—		—		—		—		—	
1972 17	0:35:24.56		—	—	37.170	117.570	—	—	—	5.00*	—	KKG	—		—		2.3	RYN	—		—		—	
1972 17	7:55:32.66		—	—	37.170	117.560	—	—	—	15.00	—	KKG	1	BRP	2.1	BRP	3.3	RYN	—		—		3.6	BRK
1972 17	11:57:46.69		—	—	37.180	117.540	—	—	—	5.00*	—	KKG	—		—		—		—		—		—	
1972 17	14:49:30.06		—	—	37.130	117.590	—	—	—	10.00*	—	KKG	—		—		—		—		—		—	
1972 17	19: 2: 1.61	SIZ	—	—	37.144	116.065	—	—	—	8.00*	—	GDY	5	BRP	4.0	BRP	—		—		4.6	PDX	4.6	GDY
1972 18	7:13:24.32		—	—	36.140	117.710	—	—	—	15.00	—	KKG	—		—		—		—		—		—	
1972 18	13: 3:35.67	SIZ	—	—	37.150	116.280	—	—	—	0.00	—	KKG	—		—		—		—		—		—	
1972 19	10:59: 1.16	SIZ	—	—	36.910	115.970	—	—	—	5.90	—	KKG	—		—		—		—		—		—	
1972 22	2:33:56.89		—	—	36.490	115.620	—	—	—	5.00*	—	KKG	—		—		—		—		—		—	
1972 22	5: 5: 4.44	SIZ	—	—	36.950	115.920	—	—	—	12.80	—	KKG	—		—		—		—		—		—	
1972 24	15:57:24.82		—	—	37.010	117.910	—	—	—	0.00*	—	KKG	—		—		—		—		—		—	
1972 25	13:52:31.33	SIZ	—	—	37.300	115.970	—	—	—	16.60	—	KKG	—		—		—		—		—		—	
1972 25	22: 2:37.05		—	—	37.280	115.860	—	—	—	10.00*	—	KKG	—		—		—		—		—		—	
1972 26	0: 6:43.64		—	—	37.260	117.570	—	—	—	15.00*	—	KKG	—		—		—		—		—		—	
1972 26	4:19:18.60		0.22	7	38.057	116.930	—	—	—	—	—	RYN	—		—		2.0	RYN	—		—		—	
1972 26	5:45:49.24		—	—	36.340	116.490	—	—	—	25.00*	—	KKG	—		—		—		—		—		—	
1972 26	23:27: 9.17	SIZ	—	—	36.840	115.830	—	—	—	25.00*	—	KKG	—		—		—		—		—		—	
1972 27	14: 3: 5.36	SIZ	—	—	36.740	115.990	—	—	—	14.30	—	KKG	—		—		—		—		—		—	
1972 28	23:17:42.26		—	—	36.410	114.730	—	—	—	12.00	—	KKG	—		—		—		—		—		—	
1972 MAR 2	7:16:59.80		—	—	37.850	115.690	—	—	—	0.00	—	KKG	—		—		—		—		—		—	
1972 2	10:18:26.62	SIZ	—	—	36.740	116.020	—	—	—	5.00*	—	KKG	—		—		—		—		—		—	
1972 2	10:47:19.71	SIZ	—	—	36.740	115.980	—	—	—	12.10	—	KKG	—		—		—		—		—		—	
1972 2	10:53:38.50		—	—	36.040	117.430	—	—	—	8.70	—	KKG	—		—		—		—		—		—	
1972 3	13:57:51.23		—	—	36.830	116.240	—	—	—	5.00*	—	KKG	—		—		—		—		—		—	
1972 4	1:55:23.77		—	—	35.830	117.800	—	—	—	15.50	—	KKG	1	BRP	2.1	BRP	3.2	PAS	—		—		—	
1972 4	13:56:52.13		—	—	36.870	116.260	—	—	—	8.20	—	KKG	—		—		—		—		—		—	
1972 4	18:17:38.93		—	—	36.000	115.470	—	—	—	0.00	—	KKG	—		—		—		—		—		—	
1972 7	3: 9:57.38		—	—	36.510	117.000	—	—	—	17.90	—	KKG	—		—		—		—		—		—	
1972 10	3:43:13.41	SIZ	—	—	37.190	116.310	—	—	—	0.00	—	KKG	—		—		—		—		—		—	
1972 10	10: 1:22.60		—	—	37.460	115.540	—	—	—	10.00*	—	KKG	—		—		—		—		—		—	
1972 10	11:32:36.51		—	—	37.050	116.700	—	—	—	0.00	—	KKG	—		—		—		—		—		—	
1972 11	15: 2:52.53		—	—	37.460	114.620	—	—	—	0.00*	—	KKG	—		—		—		—		—		—	
1972 11	16:21:28.64	SIZ	—	—	37.240	116.390	—	—	—	0.00	—	KKG	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 MAR 12	9:34:46.83		—	—	37.010	117.660	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 12	12:18:42.59		—	—	37.010	117.640	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 13	0:38:23.50		0.32	12	38.463	117.888	—		—	—	—	RYN	—		—		2.5	RYN	—		—		—	
1972 13	13:35:13.84		—	—	35.980	118.000	—		—	1.00*	—	KKG	—		—		—		—		—		—	
1972 15	4:29:39.57		—	—	36.490	117.060	—		—	15.70	—	KKG	—		—		—		—		—		—	
1972 15	23:19:42.39		—	—	35.810	115.310	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 16	3: 9: 0.65		—	—	35.640	117.760	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 17	5:49:58.44	SIZ	—	—	37.350	116.550	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 17	8:35:45.91		—	—	37.110	116.990	—		—	12.20	—	KKG	—		—		—		—		—		—	
1972 17	18: 7:42.80		0.48	5	38.469	117.841	—		—	—	—	RYN	—		—		1.8	RYN	—		—		—	
1972 18	0:10:33.32		—	—	36.170	117.540	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 18	15:56:40.04	LM	—	—	35.920	114.970	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 20	23:18:42.19		—	—	36.330	114.930	—		—	18.00	—	KKG	—		—		—		—		—		—	
1972 21	1:21:11.78		—	—	35.980	117.680	—		—	8.40	—	KKG	1	BRP	2.4	BRP	3.4	PAS	—		—		3.4	KKG
1972 21	1:27:23.37		—	—	36.340	117.860	—		—	4.50	—	KKG	—		—		—		—		—		—	
1972 21	1:36: 1.75	SIZ	—	—	37.030	116.010	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 22	16: 4:28.80		0.22	6	37.701	114.583	—		—	—	—	RYN	—		—		—		—		—		—	
1972 23	20:38:11.28	SIZ	—	—	37.250	116.210	—		—	13.30	—	KKG	—		—		—		—		—		—	
1972 25	13:31: 8.41		—	—	37.170	117.410	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 25	13:41:37.55	SIZ	—	—	37.290	116.410	—		—	0.00*	—	KKG	—		—		3.3	RYN	—		—		—	
1972 25	14:28:35.64	SIZ	—	—	37.330	116.410	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 25	14:30:32.37	SIZ	—	—	37.400	116.480	—		—	32.10	—	KKG	—		—		—		—		—		—	
1972 25	14:41:23.14	SIZ	—	—	37.360	116.410	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 25	14:48:13.28	SIZ	—	—	37.360	116.410	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 25	14:57: 8.09	SIZ	—	—	36.880	115.960	—		—	6.10	—	KKG	—		—		—		—		—		—	
1972 25	15:37:36.40	SIZ	—	—	37.350	116.410	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 25	15:46:13.26	SIZ	—	—	37.320	116.400	—		—	11.60	—	KKG	—		—		—		—		—		—	
1972 25	16:16:53.15	SIZ	—	—	37.370	116.410	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 25	16:22:56.62	SIZ	—	—	37.350	116.420	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 25	17:51:27.66	SIZ	—	—	37.220	116.410	—		—	17.00	—	KKG	—		—		—		—		—		—	
1972 25	18:14:45.25	SIZ	—	—	37.320	116.400	—		—	9.50	—	KKG	—		—		—		—		—		—	
1972 25	18:15:35.87	SIZ	—	—	37.390	116.430	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 25	18:20:24.94	SIZ	—	—	37.360	116.410	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 25	18:30:36.19	SIZ	—	—	37.220	116.410	—		—	14.90	—	KKG	—		—		—		—		—		—	
1972 25	20:13:44.52	SIZ	—	—	37.260	116.410	—		—	11.00	—	KKG	—		—		—		—		—		—	
1972 25	22:26:10.28	SIZ	—	—	37.180	116.240	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 26	0: 0: 8.10	SIZ	—	—	37.350	116.410	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 26	2: 1:18.87	LM	—	—	36.060	114.860	—		—	3.50	—	KKG	—		—		—		—		—		—	
1972 26	2: 7:42.92	SIZ	—	—	37.310	116.410	—		—	13.40	—	KKG	—		—		—		—		—		—	
1972 26	7:22:53.07	SIZ	—	—	37.310	116.580	—		—	29.30	—	KKG	—		—		—		—		—		—	
1972 26	11:22: 6.42		—	—	36.050	117.760	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 26	13: 2:55.30		—	—	36.090	117.720	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 26	23:52:23.02	SIZ	—	—	36.890	115.970	—		—	9.40	—	KKG	—		—		—		—		—		—	
1972 28	2:30:43.86	SIZ	—	—	37.360	116.420	—		—	8.30	—	KKG	—		—		—		—		—		—	
1972 28	12:37:26.29	SIZ	—	—	37.410	116.420	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 28	23:40:59.41	SIZ	—	—	37.210	116.310	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 29	2:31:28.15		—	—	36.420	115.400	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 29	5:16:39.15	SIZ	—	—	37.320	116.480	—		—	24.70	—	KKG	—		—		—		—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 MAR 29	13:12: 2.01		—	—	36.280	115.440	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 30	8:31:15.11		—	—	36.390	115.410	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 30	14: 7:26.44		—	—	37.300	114.800	—		—	9.40	—	KKG	—		—		—		—		—		—	
1972 30	21: 0: 1.20	SIZ	—	—	37.000	116.000	—	A	—	10.00*	—	BRP	5	BRP	4.0	BRP	—		—		4.6	PDX	—	
1972 30	21: 0:17.80		1.44	6	37.684	116.955	—		—	—	—	RYN	—		—		4.3	RYN	—		—		—	
1972 30	22:14:45.30	SIZ	—	—	36.950	116.060	—		—	8.10	—	KKG	—		—		—		—		—		—	
1972 30	23:25:57.81	SIZ	—	—	37.320	116.400	—		—	15.50	—	KKG	—		—		—		—		—		—	
1972 31	9:48:47.03	SIZ	—	—	37.380	116.410	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 31	11: 1: 9.13	SIZ	—	—	37.360	116.400	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 31	13:17:53.72	SIZ	—	—	37.400	116.410	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 APR 1	19:34:11.57		—	—	36.440	115.390	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 6	8:16:40.87		—	—	37.520	117.430	—		—	14.70	—	KKG	—		—		3.3	RYN	—		—		—	
1972 6	9:38:51.30		0.34	8	37.532	117.426	—		—	—	—	RYN	—		—		3.2	RYN	—		—		—	
1972 7	6: 2:44.86	SIZ	—	—	37.070	116.150	—		—	7.90	—	KKG	—		—		—		—		—		—	
1972 7	22:21:29.15		—	—	36.480	114.690	—		—	1.50	—	KKG	—		—		—		—		—		—	
1972 9	6:41: 0.64		—	—	36.870	116.290	—		—	4.60	—	KKG	—		—		—		—		—		—	
1972 9	9:50:22.53	SIZ	—	—	37.010	116.130	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 9	10: 0:53.43	SIZ	—	—	37.010	116.130	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 9	15:37:47.42		—	—	37.600	117.460	—		—	5.00*	—	KKG	—		—		1.9	RYN	—		—		—	
1972 11	20:51:47.80		0.29	5	38.424	117.840	—		—	—	—	RYN	—		—		1.6	RYN	—		—		—	
1972 11	21:40:12.50		0.14	4	38.417	117.840	—		—	—	—	RYN	—		—		1.5	RYN	—		—		—	
1972 14	23:33:48.75		—	—	35.730	116.040	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 15	23:38: 1.31		—	—	37.900	117.400	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 15	23:39:33.43		—	—	37.900	117.420	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 16	12: 4:25.28	SIZ	—	—	36.990	116.160	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 16	14:37: 8.28	SIZ	—	—	36.990	116.160	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 17	14:39:11.92	SIZ	—	—	36.980	116.140	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 18	0: 7:25.42	SIZ	—	—	37.240	116.520	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 19	0:38:28.19		—	—	37.340	117.790	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 19	8:50:29.45		—	—	37.730	115.100	—		—	25.50	—	KKG	—		—		—		—		—		—	
1972 19	13: 7: 1.56		—	—	36.720	115.820	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 19	21: 6:45.08	LM	—	—	36.020	114.760	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 19	23: 8:39.04		—	—	35.740	115.370	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 20	11: 2: 7.25	LM	—	—	35.980	114.870	—		—	3.80	—	KKG	—		—		—		—		—		—	
1972 21	5: 7: 8.58		—	—	35.998	117.436	—	C	—	8.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1972 21	8:17:20.79		—	—	35.973	117.464	—	C	—	8.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1972 21	13:43:37.30		—	—	36.070	117.550	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 21	20:58:39.16		—	—	37.530	115.320	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 21	22: 8:36.43		—	—	36.340	114.880	—		—	10.60	—	KKG	—		—		—		—		—		—	
1972 21	22:48:38.89		—	—	37.800	115.210	—		—	0.00*	—	KKG	—		—		3.0	RYN	—		—		—	
1972 21	22:56:38.13		—	—	36.350	116.750	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 22	4:56: 5.93		—	—	37.740	115.970	—		—	5.00*	—	KKG	—		—		2.3	RYN	—		—		—	
1972 22	4:57:54.41		—	—	37.780	115.980	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 22	6: 0:43.28		—	—	37.740	116.060	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 22	6:14: 3.57		—	—	37.810	116.060	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 22	15:41:31.09	SIZ	—	—	36.900	115.960	—		—	4.00	—	KKG	—		—		—		—		—		—	
1972 23	4:43:17.70		—	—	36.140	117.740	—		—	8.00	—	KKG	—		—		—		—		—		—	
1972 24	2:12:31.72		—	—	37.710	115.040	—		—	20.00	—	KKG	—		—		3.0	RYN	—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 APR 25	9:59: 9.73	SIZ	—	—	37.220	116.510	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 26	2:12:26.79		—	—	37.090	115.830	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 26	8: 9:40.98		—	—	37.190	116.800	—		—	6.80	—	KKG	—		—		—		—		—		—	
1972 26	10: 7:52.08		—	—	36.740	115.440	—		—	0.00	—	KKG	—		—		3.0	RYN	—		—		—	
1972 26	14: 0:56.15	SIZ	—	—	36.760	115.950	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 27	14:21:14.36		—	—	37.310	117.590	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 27	14:44:39.14		—	—	37.290	117.580	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 27	14:51:25.41		—	—	37.400	117.760	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 28	0: 7:25.42	SIZ	—	—	37.240	116.520	—		—	12.00	—	KKG	—		—		—		—		—		—	
1972 29	19: 2:32.46		—	—	37.640	117.350	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 30	0: 3:15.10		—	—	37.310	114.810	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 30	18:36:35.30		0.27	6	38.459	117.865	—		—	—	—	RYN	—		—		1.1	RYN	—		—		—	
1972 MAY 1	12:45:41.05	SIZ	—	—	36.870	115.990	—		—	3.50	—	KKG	—		—		—		—		—		—	
1972 1	13:51:44.81	SIZ	—	—	37.020	116.080	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 2	14:54: 4.96		—	—	37.890	115.030	—		—	16.80	—	KKG	—		—		—		—		—		—	
1972 2	19:55: 8.40	SIZ	—	—	37.270	116.410	—		—	11.10	—	KKG	—		—		—		—		—		—	
1972 4	14:22:46.36		—	—	37.040	115.830	—		—	31.00	—	KKG	—		—		—		—		—		—	
1972 4	21:27:40.31		—	—	36.810	117.660	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 6	6:50:40.89		—	—	36.530	117.840	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 6	15:52:48.92	SIZ	—	—	37.180	116.300	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 7	11:43:51.76		—	—	37.280	114.780	—		—	17.10	—	KKG	—		—		—		—		—		—	
1972 7	13:30:13.87		—	—	37.400	117.120	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 8	4:31:37.10		0.12	6	38.467	117.872	—		—	—	—	RYN	—		—		1.3	RYN	—		—		—	
1972 8	14:56:56.12	SIZ	—	—	37.210	116.030	—		—	34.50	—	KKG	—		—		—		—		—		—	
1972 8	22:41: 7.98		—	—	35.690	116.060	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 9	3:36:25.70	SIZ	—	—	36.760	115.960	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 9	15:39:51.66		—	—	35.921	117.788	—	B	—	8.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1972 10	3:24:58.83		—	—	37.270	115.220	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 10	12: 0: 0.00	HE	—	—	37.010	116.200	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 12	18:50:42.15	SIZ	—	—	36.870	115.960	—		—	5.40	—	KKG	—		—		—		—		—		—	
1972 13	1:49:58.00	SIZ	—	—	37.160	116.290	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 13	20:46:40.70		0.18	5	38.044	116.213	—		—	—	—	RYN	—		—		2.3	RYN	—		—		—	
1972 15	1:59:16.67		—	—	37.180	116.740	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 15	5: 9:39.25		—	—	37.230	116.970	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 15	8:55:22.20		0.62	5	37.987	116.079	—		—	—	—	RYN	—		—		1.9	RYN	—		—		—	
1972 15	8:55:23.49		—	—	37.170	117.270	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 15	17:17:42.20		0.80	5	38.471	116.534	—		—	—	—	RYN	—		—		—		—		—		—	
1972 16	1:16:58.13		—	—	36.340	116.730	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 16	5:46:30.63		—	—	37.130	116.410	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 16	15:31:30.15		—	—	36.740	116.260	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 16	15:36:37.33		—	—	36.760	116.260	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 16	16:14: 8.06		—	—	36.720	116.290	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 18	12: 0:40.01	SIZ	—	—	37.130	116.100	—		—	19.00	—	KKG	—		—		—		—		—		—	
1972 20	23:44: 6.97		—	—	35.710	115.990	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 21	12:26:38.24		—	—	37.020	117.400	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 21	12:30:54.60		—	—	37.380	117.170	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 21	22:24:56.11		—	—	37.010	115.630	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 22	8:57:10.08		—	—	37.350	117.260	—		—	0.00	—	KKG	—		—		—		—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 MAY 22	12:48: 0.60		—	—	36.400	114.970	—	—	—	0.00	—	KKG	—		—		—		—		—		—	
1972 22	16: 3:40.44	SIZ	—	—	37.170	116.190	—	—	—	27.00	—	KKG	—		—		—		—		—		—	
1972 22	23:28:56.00	HE	—	—	37.120	116.330	—	—	—	0.00*	—	KKG	—		—		—		—		—		—	
1972 22	23:53:58.09		—	—	36.370	116.770	—	—	—	5.00*	—	KKG	—		—		—		—		—		—	
1972 23	6:47:59.60		—	—	36.820	117.240	—	—	—	0.00*	—	KKG	—		—		—		—		—		—	
1972 23	12:57:11.67	SIZ	—	—	36.740	116.000	—	—	—	10.90	—	KKG	—		—		—		—		—		—	
1972 23	22:15:38.00	HE	—	—	37.120	116.330	—	—	—	0.00*	—	KKG	—		—		—		—		—		—	
1972 23	22:45:35.86		—	—	37.600	117.540	—	—	—	10.00*	—	KKG	—		—		—		—		—		—	
1972 24	15:37:27.41		—	—	37.380	117.140	—	—	—	5.00*	—	KKG	—		—		—		—		—		—	
1972 24	16:59:48.18		—	—	37.200	116.850	—	—	—	0.00	—	KKG	—		—		—		—		—		—	
1972 24	21:21:19.00	HE	—	—	37.120	116.330	—	—	—	0.00*	—	KKG	—		—		—		—		—		—	
1972 25	4:34:59.66		—	—	37.390	117.120	—	—	—	0.00	—	KKG	—		—		—		—		—		—	
1972 25	4:40:45.47		—	—	37.370	117.100	—	—	—	20.00*	—	KKG	—		—		—		—		—		—	
1972 25	4:42:36.05		—	—	37.290	116.770	—	—	—	0.00	—	KKG	—		—		—		—		—		—	
1972 25	4:45: 0.11		—	—	37.380	117.130	—	—	—	0.00	—	KKG	—		—		—		—		—		—	
1972 25	5:26:25.65		—	—	37.380	117.070	—	—	—	5.00*	—	KKG	—		—		—		—		—		—	
1972 25	7: 3:31.33		—	—	37.360	117.020	—	—	—	5.00*	—	KKG	—		—		—		—		—		—	
1972 25	8:37: 7.35		—	—	38.270	117.070	—	—	—	25.00*	—	KKG	—		—		—		—		—		—	
1972 25	8:59:28.25	SIZ	—	—	37.020	116.160	—	—	—	5.00*	—	KKG	—		—		—		—		—		—	
1972 25	20:30:59.00	HE	—	—	37.120	116.330	—	—	—	0.00*	—	KKG	—		—		—		—		—		—	
1972 26	16:47:12.19		—	—	37.110	115.790	—	—	—	20.00*	—	KKG	—		—		—		—		—		—	
1972 26	18:43: 1.71		—	—	36.350	114.870	—	—	—	14.50	—	KKG	—		—		—		—		—		—	
1972 26	19:15:42.00	HE	—	—	37.120	116.330	—	—	—	0.00*	—	KKG	—		—		—		—		—		—	
1972 30	9: 1:34.04		—	—	36.720	115.760	—	—	—	7.50	—	KKG	—		—		—		—		—		—	
1972 JUN 2	8:39:32.18		—	—	36.310	117.910	—	—	—	13.20	—	KKG	—		—		—		—		—		—	
1972 2	11:46:22.87		—	—	38.500	117.640	—	—	—	5.00*	—	KKG	—		—		—		—		—		—	
1972 5	8:47:49.90		—	—	35.760	116.240	—	—	—	10.00*	—	KKG	—		—		—		—		—		—	
1972 5	11: 3:46.20		—	—	36.890	117.520	—	—	—	11.50	—	KKG	—		—		—		—		—		—	
1972 5	23:59:54.78		—	—	37.218	117.875	—	—	—	8.00*	—	GDY	—		1.8	BRP	3.0	BRK	—		—		3.0	GDY
1972 6	0: 0:56.76		—	—	37.180	117.760	—	—	—	10.00*	—	KKG	—		—		—		—		—		—	
1972 6	0:54: 7.85		—	—	37.230	117.840	—	—	—	0.00	—	KKG	—		—		—		—		—		—	
1972 6	1: 1:38.20		—	—	37.230	117.830	—	—	—	5.00*	—	KKG	—		—		—		—		—		—	
1972 6	1:10:55.67		—	—	37.230	117.870	—	—	—	10.00*	—	KKG	—		—		—		—		—		—	
1972 7	22:57:32.90		—	—	35.740	115.990	—	—	—	15.00*	—	KKG	—		—		—		—		—		—	
1972 9	18:37:38.43		—	—	36.880	114.570	—	—	—	24.30	—	KKG	—		—		—		—		—		—	
1972 10	15:25:10.59		—	—	36.910	116.780	—	—	—	10.00*	—	KKG	—		—		—		—		—		—	
1972 12	4:47:49.50		—	—	37.170	116.780	—	—	—	0.00	—	KKG	—		—		—		—		—		—	
1972 12	6:11:47.80		—	—	36.750	115.380	—	—	—	0.00*	—	KKG	—		—		—		—		—		—	
1972 13	6:59:55.15		—	—	36.730	115.400	—	—	—	10.00*	—	KKG	—		—		—		—		—		—	
1972 16	13: 3: 7.20	SIZ	—	—	37.290	116.560	—	—	—	5.00*	—	KKG	—		—		2.2	RYN	—		—		—	
1972 17	22:31:48.35		—	—	37.220	117.380	—	—	—	15.00*	—	KKG	—		—		—		—		—		—	
1972 18	10:38:36.42		—	—	36.810	117.610	—	—	—	0.00	—	KKG	—		—		—		—		—		—	
1972 18	19:23:43.98		—	—	37.030	116.480	—	—	—	9.90	—	KKG	—		—		—		—		—		—	
1972 19	10:51:40.40		—	—	36.800	117.630	—	—	—	0.00*	—	KKG	—		—		—		—		—		—	
1972 21	4:27: 5.06		—	—	36.500	117.140	—	—	—	22.60	—	KKG	—		—		—		—		—		—	
1972 22	4:50:47.64		—	—	36.440	115.870	—	—	—	15.00*	—	KKG	—		—		—		—		—		—	
1972 24	9:38:16.88		—	—	36.010	117.890	—	—	—	5.00*	—	KKG	—		—		—		—		—		—	
1972 26	6:13:21.26		—	—	35.856	117.643	—	—	—	8.00*	—	GDY	—		1.7	BRP	2.9	PAS	—		—		2.9	GDY

SGB HISTORICAL HYPOCENTER SUMMARY 1868–1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 JUN 26	9:21:14.34		—	—	35.847	117.846	—		—	8.00*	—	GDY	—		—		3.0	PAS	—		—		3.0	GDY
1972 28	3:51: 6.94		—	—	37.740	115.250	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 28	5:29:10.44		—	—	35.786	117.608	—		—	8.00*	—	GDY	1	BRP	—		3.2	PAS	—		—		3.2	GDY
1972 28	16:18:29.63	SIZ	—	—	36.870	115.940	—		—	13.60	—	KKG	—		—		—		—		—		—	
1972 28	16:30: 2.06	SIZ	—	—	37.104	116.068	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1972 29	13:53:10.89		—	—	37.250	114.710	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 30	6:18:12.12		—	—	37.250	114.740	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 30	21:10: 3.94		—	—	36.330	114.950	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 JUL 1	2:40: 4.98		—	—	35.808	117.592	—	C	—	8.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1972 1	13:34:57.20		0.97	9	38.213	116.426	—		—	—	—	RYN	—		—		—		—		—		—	
1972 2	10:52:24.72		—	—	37.970	116.240	—		—	18.20	—	KKG	—		—		—		—		—		—	
1972 4	3:51:39.20		0.06	5	38.323	117.847	—		—	—	—	RYN	—		—		1.9	RYN	—		—		—	
1972 4	5:12:16.28		—	—	37.980	116.230	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 4	8:19:59.62		—	—	35.630	117.800	—		—	5.00*	—	KKG	2	BRP	—		4.0	PAS	—		4.4	PDX	4.4	GDY
1972 4	8:26:13.11		—	—	35.883	117.585	—	C	—	8.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1972 4	8:37:15.87		—	—	35.798	117.573	—		—	8.00*	—	GDY	1	BRP	—		3.4	PAS	—		—		3.4	GDY
1972 5	2:37:18.36		—	—	37.700	116.080	—		—	14.00	—	KKG	—		—		2.2	RYN	—		—		—	
1972 5	4:38:51.11	SIZ	—	—	37.150	116.290	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 6	9:39:12.79		—	—	36.360	117.520	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 8	7:30:12.84		—	—	36.820	115.340	—		—	14.50	—	KKG	—		—		—		—		—		—	
1972 8	8: 8:47.33		—	—	36.790	115.370	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 8	9:50:41.79		—	—	36.790	115.370	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 8	19:59:48.91		—	—	36.370	116.730	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 8	20: 4:47.45		—	—	37.230	114.800	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 9	3:19:53.68		—	—	37.420	117.370	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 9	6:45:16.47		—	—	37.460	117.470	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 10	14:54:25.65		—	—	36.450	115.790	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 10	23:59:56.51	LM	—	5	35.982	114.782	1.6	C	158	5.76	3.80	RWL	—		—		—		1.6	RWL	—		—	
1972 12	22:10:38.07	LM	—	6	36.087	114.676	1.0	C	149	5.00*	2.80	RWL	—		—		—		1.4	RWL	—		—	
1972 16	2:52:29.90	LM	—	—	35.930	114.990	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 16	7:56: 7.84	LM	—	7	36.109	114.808	0.6	C	229	7.32	0.90	RWL	—		—		—		1.6	RWL	—		—	
1972 19	8: 5:26.72		—	—	37.180	117.450	—		—	18.80	—	KKG	—		—		—		—		—		—	
1972 19	14:34:31.22		—	—	37.150	117.410	—		—	15.80	—	KKG	—		—		—		—		—		—	
1972 19	17: 1:34.23		—	—	36.770	116.280	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 20	12:40:37.63		—	—	38.260	116.130	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 21	3:53:37.85	LM	—	5	36.093	114.637	3.7	D	166	3.60	2.80	RWL	—		—		—		1.3	RWL	—		—	
1972 21	17:52:40.27	LM	—	7	36.000	114.788	0.6	B	138	4.27	1.50	RWL	—		—		—		1.4	RWL	—		—	
1972 22	12:59:55.28	LM	—	6	36.003	114.831	0.4	C	215	9.32	0.70	RWL	—		—		—		1.4	RWL	—		—	
1972 23	7:40:52.07		—	—	35.790	117.690	—		—	10.40	—	KKG	—		—		—		—		—		—	
1972 23	14:14:54.79		—	—	37.310	117.450	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 24	18:32:28.05	LM	—	5	35.911	114.667	0.7	C	280	6.93	0.40	RWL	—		—		—		1.4	RWL	—		—	
1972 25	13:30: 1.76	SIZ	—	—	36.953	116.009	—		—	8.00*	—	GDY	5	BRP	4.0	BRP	—		—		4.0	PDX	4.0	GDY
1972 25	16:47:12.81	LM	—	5	36.685	114.763	2.5	D	207	12.97	2.70	RWL	—		—		—		1.2	RWL	—		—	
1972 25	20:50:17.21	LM	—	7	36.047	114.718	0.3	B	103	9.53	0.90	RWL	—		—		—		2.3	RWL	—		—	
1972 26	21:14:46.17		—	—	36.320	114.900	—		—	13.90	—	KKG	—		—		—		—		—		—	
1972 27	11:35:39.42	LM	—	7	36.067	114.741	1.0	C	180	7.09	2.20	RWL	—		—		—		1.5	RWL	—		—	
1972 27	20:18:16.34		—	—	37.450	115.640	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 28	1:37:45.57	SIZ	—	—	37.240	116.130	—		—	5.00*	—	KKG	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 JUL 28	2:36:43.75	LM	—	6	35.944	114.660	0.3	C	230	4.72	0.40	RWL	—		—		—		2.1	RWL	—		—	
1972 28	23:22: 6.75	SIZ	—	—	37.250	116.220	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 29	4:45: 3.76		—	—	35.950	117.350	—		—	0.00*	—	KKG	—		—		3.0	PAS	—		—		3.0	GDY
1972 29	9:49:39.73	LM	—	6	36.114	114.685	0.3	B	179	6.44	0.30	RWL	—		—		—		1.5	RWL	—		—	
1972 29	22:40:16.50		—	—	37.770	117.890	—		—	12.30	—	KKG	—		—		—		—		—		—	
1972 29	23:54: 9.35	SIZ	—	—	37.100	116.190	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 30	6:40: 7.62		—	—	37.460	114.990	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 30	6:41:46.45		—	—	37.460	115.000	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 30	9: 4:38.69		—	—	37.450	115.000	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 30	14: 9:54.82		—	—	35.814	117.591	—		—	8.00*	—	GDY	—		—		3.0	PAS	—		—		3.0	GDY
1972 30	19: 2:14.72		—	—	35.775	117.639	—		—	8.00*	—	GDY	1	BRP	—		3.4	PAS	—		—		3.4	GDY
1972 30	21:17: 5.39		—	—	35.780	117.640	—		—	8.00*	—	GDY	1	BRP	—		3.3	PAS	—		—		3.3	GDY
1972 30	23:17:53.53	SIZ	—	—	37.100	116.210	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 31	4:26:28.80		0.59	8	38.130	116.217	—		—	—	—	RYN	—		—		2.8	RYN	—		—		—	
1972 31	4:27:29.16		—	—	38.030	116.240	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 AUG 1	3:14:33.01		—	—	36.150	117.656	—		—	8.00*	—	GDY	—		1.5	BRP	2.7	PAS	—		—		2.7	GDY
1972 1	5:16:59.70		—	—	36.940	117.550	—		—	8.80	—	KKG	—		—		—		—		—		—	
1972 1	22:40: 8.02	LM	—	4	36.047	114.768	—	C	236	3.99	—	RWL	—		—		—		2.5	RWL	—		—	
1972 1	22:50: 8.16	LM	—	5	36.017	114.779	3.1	D	261	8.72	9.20	RWL	—		—		—		2.1	RWL	—		—	
1972 2	0:28:36.32		—	—	36.030	115.420	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 3	1: 8:52.92	SIZ	—	—	37.330	116.220	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 3	7:19:16.59	SIZ	—	—	36.890	116.060	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 3	9:42:12.93		—	—	36.910	117.490	—		—	15.50	—	KKG	—		—		—		—		—		—	
1972 3	12:53:30.42	LM	—	4	36.130	114.622	—	C	173	0.73	—	RWL	—		—		—		1.0	RWL	—		—	
1972 3	15:34: 5.54		—	—	36.840	116.260	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 3	20:52:49.41		—	—	37.410	117.840	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 3	23:28:18.07	LM	—	4	36.052	114.742	—	C	220	9.29	—	RWL	—		—		—		1.1	RWL	—		—	
1972 4	14:17:24.42		—	—	37.430	114.840	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 4	18:59:52.75	SIZ	—	—	36.890	116.040	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 4	20:44:25.65		—	—	37.730	115.080	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 4	21:50: 6.09		—	—	36.100	115.370	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 5	0: 5:59.49		—	—	35.700	115.990	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 5	12:37:13.35		—	—	36.520	116.080	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 7	4:21: 6.81		—	—	38.020	116.230	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 8	6:23:35.46	SIZ	—	—	37.000	116.280	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 9	20:25:52.95		—	—	35.860	117.760	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 11	11:48:32.90		1.17	8	38.100	116.272	—		—	—	—	RYN	—		—		2.2	RYN	—		—		—	
1972 13	5:34:12.62		—	—	37.700	115.090	—		—	19.60	—	KKG	—		—		2.4	RYN	—		—		—	
1972 13	14: 1:39.30		—	—	37.400	114.660	—		—	18.00	—	KKG	—		—		—		—		—		—	
1972 13	20:13:40.58	SIZ	—	—	36.910	116.080	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 14	7:59:45.76		—	—	37.200	117.540	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 14	18: 1:25.85		—	—	37.250	114.970	—		—	12.70	—	KKG	—		—		—		—		—		—	
1972 15	3:36:42.10		—	—	37.700	116.010	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 15	7:12:53.00		0.79	7	38.435	117.845	—		—	—	—	RYN	—		—		—		—		—		—	
1972 15	18:28:51.75		—	—	37.480	115.290	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 16	2:40:34.23		—	—	36.370	116.130	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 16	6:17:56.17	SIZ	—	—	37.250	116.450	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 16	19:34:24.69		—	—	37.520	117.070	—		—	5.00*	—	KKG	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 AUG 19	3:32:30.98		—	—	38.260	117.070	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 19	10:28: 7.86		—	—	37.020	116.490	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 19	15:13:49.83		—	—	37.260	114.710	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 19	20:12: 0.79		—	—	35.950	115.530	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 19	23: 1:51.99		—	—	36.890	117.880	—		—	17.20	—	KKG	—		—		—		—		—		—	
1972 20	1:20:34.84		—	—	36.670	116.200	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 22	2:14:56.21		—	—	38.470	116.050	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 22	10:58: 7.99		—	—	38.190	117.070	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 22	12:19:44.85	SIZ	—	—	37.280	116.180	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 23	2:14:53.91	LM	—	6	36.006	114.790	0.4	C	223	6.43	1.00	RWL	—		—		—		1.4	RWL	—		—	
1972 23	8: 6:30.61	SIZ	—	—	36.880	116.000	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 23	8:58:43.35	SIZ	—	—	36.920	116.070	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 23	10:56:22.18	SIZ	—	—	36.860	115.940	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 23	12:36:52.15	SIZ	—	—	36.880	115.990	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 23	20:59:33.37	SIZ	—	—	36.890	116.010	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 23	23:20:52.30	SIZ	—	—	36.820	115.900	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 24	2:20: 4.40		—	—	37.730	114.970	—		—	16.90	—	KKG	—		—		—		—		—		—	
1972 24	22:32:32.81		—	—	35.821	117.596	—	B	—	8.00*	—	PAS	—		1.1	BRP	2.4	PAS	—		—		—	
1972 24	23:41:12.12	LM	—	4	35.978	114.788	—	C	173	8.45	—	RWL	—		—		—		1.5	RWL	—		—	
1972 25	3:28:32.78	SIZ	—	—	37.160	116.100	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 25	10: 4: 2.26	SIZ	—	—	36.900	116.040	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 25	22:20:42.45	LM	—	6	35.968	114.622	0.5	C	240	4.67	0.50	RWL	—		—		—		1.1	RWL	—		—	
1972 25	23: 9:24.01		—	—	38.080	116.200	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 26	0: 2: 7.45	SIZ	—	—	37.360	116.210	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 26	4:41:11.55	SIZ	—	—	37.280	116.430	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 27	11:17:10.80		—	—	38.200	115.850	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 27	11:31: 2.71		—	—	38.230	115.940	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 27	17:23:29.66		—	—	38.230	115.940	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 29	4:15:15.47		—	—	36.370	116.870	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 29	4:41:22.69		—	—	36.660	117.250	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 31	11:23:30.57		—	—	37.490	116.390	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 31	21:36:37.92		—	—	36.870	117.420	—		—	16.40	—	KKG	—		—		—		—		—		—	
1972 SEP 1	0: 5:17.91		—	—	35.740	116.500	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 1	4:42: 1.10		—	—	37.340	116.810	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 1	6:13:15.63		—	—	35.680	117.580	—		—	8.00	—	KKG	—		—		—		—		—		—	
1972 2	14: 7:51.37	LM	—	4	36.134	114.637	—	C	116	0.69	—	RWL	—		—		—		0.8	RWL	—		—	
1972 3	21: 5: 6.75		—	—	35.740	115.970	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 3	22:49:55.67		—	—	36.560	116.310	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 4	9: 4:48.24		—	—	36.570	116.330	—		—	11.20	—	KKG	—		—		—		—		—		—	
1972 4	14:35: 0.05	LM	—	6	36.049	114.724	0.2	B	162	8.53	0.30	RWL	—		—		—		1.2	RWL	—		—	
1972 4	17:20:34.21	LM	—	6	36.049	114.715	0.5	B	153	7.44	1.00	RWL	—		—		—		1.1	RWL	—		—	
1972 5	11:16: 6.30		—	—	37.270	117.840	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 5	20:55:59.54		—	—	37.180	117.740	—		—	11.40	—	KKG	—		—		—		—		—		—	
1972 6	2:54:22.79	LM	—	6	36.069	114.708	0.1	B	148	7.82	0.10	RWL	—		—		—		1.6	RWL	—		—	
1972 6	3:53:53.43		—	—	37.130	117.610	—		—	14.00	—	KKG	—		—		3.2	RYN	—		—		2.7	PAS
1972 6	20: 7:47.57	LM	—	7	36.019	114.654	0.4	B	105	6.63	1.00	RWL	—		—		—		1.1	RWL	—		—	
1972 7	4:39:47.75	LM	—	6	36.047	114.726	0.2	B	164	8.25	0.30	RWL	—		—		—		1.4	RWL	—		—	
1972 7	7:55:40.06	LM	—	7	36.070	114.699	0.6	B	139	6.72	1.10	RWL	—		—		—		1.2	RWL	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 SEP 7	18:27:20.11	LM	—	7	36.062	114.707	0.5	B	147	4.92	0.90	RWL	—		—		—		1.8	RWL	—		—	
1972 7	19:31:56.52		—	—	37.840	116.220	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 7	20:38:26.74	SIZ	—	—	37.040	115.980	—		—	11.50	—	KKG	—		—		—		—		—		—	
1972 7	21:26:25.51	LM	—	5	36.006	114.829	0.6	C	254	8.77	0.90	RWL	—		—		—		1.5	RWL	—		—	
1972 7	21:58:55.56		—	—	37.080	115.520	—		—	10.00*	—	KKG	—		—		3.6	RYN	—		—		—	
1972 9	20:52:21.00		0.01	8	38.088	117.983	—		—	—	—	RYN	—		—		2.2	RYN	—		—		—	
1972 10	2:31:34.95	SIZ	—	—	36.920	116.010	—		—	0.60	—	KKG	—		—		—		—		—		—	
1972 10	6:42:37.72		—	—	36.780	115.390	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 12	14: 3:30.96		—	—	37.000	117.580	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 12	14: 4:14.65		—	—	36.990	117.600	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 12	22: 3:22.32		—	—	36.990	117.570	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 12	22:50:58.70		—	—	37.350	117.210	—		—	5.00*	—	KKG	—		—		2.0	RYN	—		—		—	
1972 12	23:19: 1.00		—	—	37.490	116.390	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 13	8:23: 5.00		0.77	13	37.196	117.869	—		—	—	—	RYN	—		—		2.2	RYN	—		—		—	
1972 13	11:26:35.90		0.97	10	37.000	115.148	—		—	—	—	RYN	—		—		2.3	RYN	—		—		—	
1972 13	16:44: 4.15		—	—	37.320	117.270	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 14	1:40:42.35		—	—	37.100	115.560	—		—	31.80	—	KKG	—		—		—		—		—		—	
1972 14	4:53:55.69		—	—	37.110	115.540	—		—	22.80	—	KKG	—		—		—		—		—		—	
1972 14	7:11:51.69	LM	—	7	36.031	114.787	0.7	C	218	9.62	0.80	RWL	—		—		—		1.3	RWL	—		—	
1972 14	14: 1:49.42	LM	—	7	36.067	114.699	0.8	B	140	6.59	1.20	RWL	—		—		—		1.8	RWL	—		—	
1972 14	17:39:56.80		—	—	37.500	117.580	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 14	18:41:51.90		—	—	37.350	117.170	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 14	23:29:54.71		—	—	37.490	117.580	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 14	23:56:58.36		—	—	37.310	117.010	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 15	0:45:35.62		—	—	37.370	117.170	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 15	0:57:52.90		—	—	37.490	117.520	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 15	4:49:27.99		—	—	37.400	117.260	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 15	4:58:33.23		—	—	37.490	117.540	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 15	12: 9:54.73		—	—	37.310	115.250	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 15	13:53: 9.53		—	—	37.430	117.360	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 15	14:13:57.99		—	—	37.230	115.140	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 15	22:15:27.34		—	—	36.320	114.930	—		—	17.70	—	KKG	—		—		—		—		—		—	
1972 16	17:47:33.57		—	—	37.520	115.700	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 17	7:14:30.86		—	—	37.850	117.960	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 18	12: 5:38.92		—	—	37.420	116.940	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 19	5:28:48.67	LM	—	7	36.103	114.679	0.3	B	110	4.37	0.50	RWL	—		—		—		1.6	RWL	—		—	
1972 19	8:36:17.82	LM	—	6	36.098	114.671	1.0	C	182	5.34	1.50	RWL	—		—		—		1.0	RWL	—		—	
1972 19	19:54:20.35		—	—	35.900	115.590	—		—	21.00*	—	KKG	—		—		—		—		—		—	
1972 19	22:13:14.24		—	—	36.320	114.920	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 19	22:46:38.92		—	—	35.630	116.050	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 20	7:22:48.51		—	—	38.020	117.830	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 21	4:41:18.82	LM	—	9	36.099	114.676	0.8	B	110	6.28	1.80	RWL	—		—		—		1.7	RWL	—		—	
1972 21	18:59:48.99	SIZ	—	—	37.100	116.030	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 22	8:48:25.86		—	—	37.840	117.760	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 22	9:11:40.64	LM	—	9	36.019	114.803	0.7	C	232	8.78	0.90	RWL	—		—		—		1.8	RWL	—		—	
1972 22	16:13:50.65	LM	—	6	36.020	114.790	1.2	C	222	8.43	1.60	RWL	—		—		—		1.6	RWL	—		—	
1972 22	16:22:19.78		—	—	36.560	115.230	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 23	1:29:51.64	LM	—	7	36.095	114.666	1.0	B	105	5.00*	2.70	RWL	—		—		—		1.5	RWL	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 SEP 23	6:14:48.08	SIZ	—	—	36.770	115.840	—		—	10.80	—	KKG	—		—		2.8	RYN	—		—		3.0	PAS
1972 23	13:14:31.69	LM	—	6	36.065	114.708	0.3	B	148	5.07	0.60	RWL	—		—		—		1.2	RWL	—		—	
1972 23	15:58:47.96	SIZ	—	—	37.140	116.430	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 23	16: 0:38.81	SIZ	—	—	37.180	116.410	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 23	19: 5:20.93	SIZ	—	—	37.160	116.420	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 24	6:35: 6.84		—	—	36.740	116.080	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 24	7:59:11.89	SIZ	—	—	36.740	116.070	—		—	11.20	—	KKG	—		—		—		—		—		—	
1972 24	8:50:48.90	LM	—	5	36.021	114.787	1.0	C	219	8.55	1.30	RWL	—		—		—		1.6	RWL	—		—	
1972 24	20:42: 0.69	LM	—	7	36.051	114.720	0.5	B	159	6.78	1.00	RWL	—		—		—		1.4	RWL	—		—	
1972 26	2: 1:56.44	SIZ	—	—	36.850	116.060	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 26	2:14: 5.46	LM	—	5	36.085	114.671	0.1	C	211	4.62	0.20	RWL	—		—		—		1.1	RWL	—		—	
1972 26	5:10:34.83		—	—	37.060	117.390	—		—	16.10	—	KKG	—		—		—		—		—		—	
1972 26	6:27:25.33	LM	—	10	36.021	114.808	0.8	C	236	8.51	1.30	RWL	—		—		—		1.8	RWL	—		—	
1972 26	6:28:31.79	LM	—	9	36.019	114.811	0.8	C	239	8.97	1.40	RWL	—		—		—		1.9	RWL	—		—	
1972 26	8:14: 6.73	LM	—	5	36.016	114.801	0.8	C	156	9.35	1.10	RWL	—		—		—		0.9	RWL	—		—	
1972 26	12:55:14.41		—	—	37.010	116.400	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 26	15:54:51.44	SIZ	—	—	37.100	116.140	—		—	25.00	—	KKG	—		—		—		—		—		—	
1972 26	17:15:59.11		—	—	36.900	116.410	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 26	21:50:15.94	SIZ	—	—	36.890	116.020	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 26	21:54:38.78	SIZ	—	—	36.890	116.030	—		—	4.50	—	KKG	—		—		—		—		—		—	
1972 27	12:29:49.00		1.94	8	38.479	114.814	—		—	—	—	RYN	—		—		3.8	RYN	—		—		—	
1972 27	17:37:22.95		—	—	37.370	115.490	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 27	20:41:17.20	SIZ	—	—	36.880	116.000	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 27	22: 5: 4.45		—	—	38.260	115.630	—		—	30.40	—	KKG	—		—		—		—		—		—	
1972 28	1:36:20.20	SIZ	—	—	36.940	116.060	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 28	10: 2:36.56	SIZ	—	—	36.870	115.960	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 29	0:43:25.43	LM	—	3	36.077	114.688	—	C	219	5.00*	—	RWL	—		—		—		0.5	RWL	—		—	
1972 29	4:33:39.75		—	—	36.760	116.140	—		—	4.20	—	KKG	—		—		—		—		—		—	
1972 29	5:23:53.12	LM	—	4	36.009	114.787	—	C	220	6.64	—	RWL	—		—		—		1.3	RWL	—		—	
1972 29	7:43:45.59		—	—	36.850	117.490	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 29	10:34:24.04	LM	—	8	36.096	114.673	0.8	B	110	5.00*	2.20	RWL	—		—		—		1.7	RWL	—		—	
1972 29	12:29:53.61		—	—	37.360	115.250	—		—	13.80	—	KKG	—		—		—		—		—		—	
1972 30	20:20: 4.64		—	—	35.890	117.370	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 OCT 1	5:28: 8.83	SIZ	—	—	37.190	116.280	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 1	11:47:15.16		—	—	36.560	117.550	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 1	12:48:31.32		—	—	35.930	117.340	—		—	14.70	—	KKG	—		—		—		—		—		—	
1972 2	17:55:16.35	LM	—	3	36.077	114.688	—	C	219	5.00*	—	RWL	—		—		—		1.1	RWL	—		—	
1972 3	13:22:36.49	SIZ	—	—	37.190	116.290	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 3	18:15:52.78		—	—	37.520	116.500	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 3	21:12:15.40		0.41	7	38.343	116.561	—		—	—	—	RYN	—		—		3.0	RYN	—		—		—	
1972 4	10:31: 5.10		0.06	7	38.313	116.351	—		—	—	—	RYN	—		—		2.7	RYN	—		—		—	
1972 5	22:20:52.50		—	—	35.980	115.100	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 6	0:22:50.54		—	—	37.270	115.330	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 6	12:28:23.22	LM	—	6	36.027	114.661	0.2	B	110	7.31	0.30	RWL	—		—		—		0.9	RWL	—		—	
1972 6	22:51:59.69	LM	—	—	35.840	114.760	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 7	1:22: 3.39		—	—	37.820	117.040	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 7	3:53:33.09		—	—	37.330	117.710	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 7	14:17: 7.42		—	—	36.400	117.520	—		—	0.00*	—	KKG	—		—		—		—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 OCT 7	21:16:45.40		0.51	8	38.242	116.400	—		—	—	—	RYN	—		—		2.9	RYN	—		—		—	
1972 8	1:21:31.22		—	—	38.330	116.470	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 8	2:48:26.48		—	—	38.000	115.580	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 8	4:47:31.34		—	—	36.670	116.220	—		—	1.10	—	KKG	—		—		—		—		—		—	
1972 8	9:55:18.94		—	—	37.130	117.010	—		—	12.40	—	KKG	—		—		—		—		—		—	
1972 8	17:25:48.86		—	—	38.150	115.950	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 8	19:25:34.35		—	—	35.830	115.880	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 9	9:37:53.56		—	—	37.330	117.780	—		—	7.10*	—	KKG	—		—		—		—		—		—	
1972 10	3:59:56.61		—	—	37.330	117.780	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 10	7: 5:13.11		—	—	37.250	117.680	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 10	8: 5:55.51		—	—	37.310	117.760	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 10	11:40:41.99		—	—	37.290	117.720	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 10	11:55:52.68		—	—	37.360	117.580	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 10	12: 2: 0.36		—	—	37.040	116.850	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 10	12:47:21.63		—	—	37.120	115.540	—		—	19.60	—	KKG	—		—		—		—		—		—	
1972 10	15:45:58.15	LM	—	4	35.950	114.657	—	C	153	13.62	—	RWL	—		—		—		1.2	RWL	—		—	
1972 10	18: 6:28.64	LM	—	4	35.946	114.773	—	C	228	1.68	—	RWL	—		—		—		1.1	RWL	—		—	
1972 11	1:47:20.16	SIZ	—	—	37.130	116.040	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 11	20:50:33.90		0.73	7	38.247	116.407	—		—	—	—	RYN	—		—		3.2	RYN	—		—		—	
1972 12	1:39:54.67		—	—	37.240	114.860	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 12	8:49:11.23		—	—	37.240	114.870	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 12	13:12:32.19		—	—	38.320	116.460	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 12	13:28:54.39	LM	—	8	36.070	114.708	0.3	B	103	7.98	0.80	RWL	—		—		—		1.4	RWL	—		—	
1972 12	14:42: 7.03		—	—	38.180	115.960	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 13	1:30:57.69	LM	—	6	36.021	114.688	0.3	C	183	9.26	0.40	RWL	—		—		—		0.9	RWL	—		—	
1972 13	16: 4:32.15		—	—	37.170	115.340	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 13	21:18:11.50		0.12	6	38.301	116.414	—		—	—	—	RYN	—		—		1.8	RYN	—		—		—	
1972 13	21:42: 9.84		—	—	38.270	115.990	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 14	0:59: 4.59	LM	—	6	36.002	114.723	0.7	B	121	7.63	1.40	RWL	—		—		—		1.2	RWL	—		—	
1972 14	7:35:26.60		0.15	5	38.315	116.419	—		—	—	—	RYN	—		—		2.9	RYN	—		—		—	
1972 14	7:49:10.51		—	—	38.310	116.410	—		—	10.10	—	KKG	—		—		—		—		—		—	
1972 14	13:30:15.10	SIZ	—	—	36.890	115.940	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 14	15:25: 1.77	SIZ	—	—	37.330	116.650	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 14	16:11:44.02		—	—	37.510	114.750	—		—	18.20	—	KKG	—		—		—		—		—		—	
1972 14	16:37:30.57		—	—	36.410	115.020	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 14	18:35:54.30		—	—	38.100	116.000	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 15	14: 8: 2.65	LM	—	8	35.893	114.828	1.6	C	289	3.79	2.40	RWL	—		—		—		1.9	RWL	—		—	
1972 16	7:33:30.57		—	—	37.700	115.050	—		—	15.80	—	KKG	—		—		—		—		—		—	
1972 17	3:35:14.86	LM	—	4	36.071	114.738	—	C	258	8.10	—	RWL	—		—		—		1.4	RWL	—		—	
1972 17	10:27:44.13		—	—	37.220	114.630	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 17	12:46:42.07		—	—	37.210	114.630	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 17	15:27:38.22		—	—	37.330	114.680	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 17	19:22: 2.28		—	—	38.270	116.150	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 18	0:18:56.74	LM	—	4	36.014	114.808	—	C	125	7.21	—	RWL	—		—		—		1.0	RWL	—		—	
1972 19	5:17:22.45		—	—	37.440	117.880	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 19	16:42:58.46		—	—	37.260	114.840	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 20	18:38: 6.63		—	—	36.370	114.850	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 20	23:16: 6.80	LM	—	6	36.094	114.678	0.5	B	161	4.61	0.60	RWL	—		—		—		1.6	RWL	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 OCT 21	6:14:36.79		—	—	37.470	115.650	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 21	22:35:11.07		—	—	37.080	115.530	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 22	0: 5:59.77	LM	—	5	36.119	114.659	0.6	C	200	5.05	1.30	RWL	—		—		—		1.8	RWL	—		—	
1972 22	4:45:47.13		—	—	37.090	114.880	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 22	11:49:24.95		—	—	37.230	114.820	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 22	12:33:30.75		—	—	37.290	114.610	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 22	14:33:26.30	SIZ	—	—	36.980	116.020	—		—	8.90	—	KKG	—		—		—		—		—		—	
1972 23	2:13:48.26		—	—	36.760	116.270	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 23	8: 2: 9.33		—	—	37.200	114.840	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 23	8:30:48.43		—	—	37.690	114.870	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 23	14:50:58.92		—	—	37.310	116.930	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 23	15:11:27.55		—	—	37.380	114.790	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 23	19:39:58.71		—	—	37.280	114.930	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 24	5:50:19.60		—	—	37.290	114.970	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 24	13:21:47.49		—	—	37.220	114.810	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 24	21: 2: 2.85	LM	—	4	36.114	114.738	—	C	210	7.34	—	RWL	—		—		—		1.6	RWL	—		—	
1972 27	6:53:21.32		—	—	36.380	116.350	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 27	8:26: 9.13		—	—	36.040	115.110	—		—	15.60	—	KKG	—		—		—		—		—		—	
1972 27	15:33:25.17		—	—	37.240	114.840	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 28	19: 1:24.98		—	—	37.260	114.840	—		—	17.50	—	KKG	—		—		3.4	PDX	—		—		3.4	GDY
1972 28	21:17:56.95	SIZ	—	—	37.040	115.900	—		—	13.50	—	KKG	—		—		—		—		—		—	
1972 28	21:20: 5.53	SIZ	—	—	37.060	115.970	—		—	11.80	—	KKG	—		—		—		—		—		—	
1972 28	23: 6:19.90		—	—	37.850	114.900	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 29	1:34:18.41		—	—	37.720	114.830	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 29	7: 3:28.18		—	—	37.390	114.840	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 29	11:35: 7.74		—	—	37.240	114.860	—		—	0.00*	—	KKG	—		—		3.5	RYN	—		—		3.2	PDX
1972 29	13:12:10.66		—	—	37.350	114.850	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 29	20:27: 4.35		—	—	37.300	114.810	—		—	20.00*	—	KKG	—		—		3.2	RYN	—		—		3.1	PDX
1972 30	2: 7:21.10		—	—	37.200	114.820	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 30	7: 8:21.40		—	—	37.210	114.810	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 30	8:13: 9.60		—	—	37.210	114.830	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 30	14: 3: 6.88		—	—	37.200	114.820	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 31	4: 2:50.85		—	—	37.260	114.840	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 31	5:26:50.36	SIZ	—	—	36.820	115.930	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 NOV 1	18:57:27.25		—	—	37.200	114.820	—		—	5.30	—	KKG	—		—		3.4	RYN	—		—		—	
1972 1	20: 2:13.33		—	—	37.230	114.830	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 1	20:10:34.18		—	—	37.570	114.610	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 1	20:15:27.27		—	—	37.250	114.820	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 1	23: 4:35.38		—	—	37.250	114.810	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 2	1:18:12.11		—	—	36.750	116.080	—		—	6.40	—	KKG	—		—		—		—		—		—	
1972 2	11:58:33.28		—	—	37.220	114.820	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 2	13:28:36.08		—	—	37.230	114.830	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 2	22:49:26.52		—	—	37.240	114.810	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 3	12:11:13.30	LM	—	4	36.171	114.718	—	C	246	5.92	—	RWL	—		—		—		1.9	RWL	—		—	
1972 3	20:55:39.60		—	—	36.770	116.120	—		—	6.10	—	KKG	—		—		—		—		—		—	
1972 5	2: 4:42.01		—	—	37.540	115.990	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 5	21:28:42.67		—	—	37.150	117.510	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 6	0: 5:25.96		—	—	37.230	114.830	—		—	0.00*	—	KKG	—		—		—		—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 NOV 6	1:19:36.68		—	—	36.790	115.450	—		—	20.80	—	KKG	—		—		—		—		—		—	
1972 6	11:32: 2.08		—	—	36.780	115.430	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 6	17:29:26.05		—	—	37.140	117.850	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 6	17:57:19.67		—	—	37.180	114.540	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 6	18:10:31.98		—	—	37.090	114.550	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 7	11:38: 4.77	SIZ	—	—	37.170	116.260	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 7	12:30:24.39	SIZ	—	—	37.040	116.260	—		—	5.20	—	KKG	—		—		—		—		—		—	
1972 7	23:45:20.23		—	—	35.730	115.980	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 8	10:15:10.47		—	—	36.920	117.920	—		—	0.00*	—	KKG	1	BRP	2.0	BRP	3.1	BRK	—		—		3.1	GDY
1972 9	11: 0:24.56	SIZ	—	—	37.150	115.950	—		—	8.60	—	KKG	—		—		—		—		—		—	
1972 9	14:43: 9.66		—	—	37.130	115.870	—		—	9.40	—	KKG	—		—		—		—		—		—	
1972 9	18:43:34.11		—	—	36.540	115.350	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 10	18:40: 2.45	LM	—	6	35.986	114.708	0.2	B	146	5.43	0.70	RWL	—		—		—		2.4	RWL	—		—	
1972 10	18:58:57.90	LM	—	6	35.970	114.709	1.0	C	164	9.76	2.40	RWL	—		—		—		1.7	RWL	—		—	
1972 11	3:45: 6.37		—	—	37.880	117.000	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 11	21:23:45.14		—	—	36.010	115.150	—		—	10.20	—	KKG	—		—		—		—		—		—	
1972 12	0:23:25.85		—	—	36.200	115.480	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 12	1: 7: 4.54		—	—	36.670	116.140	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 12	9:43:47.69	SIZ	—	—	36.910	115.970	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 12	15:46:54.48	SIZ	—	—	36.980	116.090	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 12	16:46:21.85	SIZ	—	—	36.980	116.080	—		—	5.00	—	KKG	—		—		—		—		—		—	
1972 12	22:22:16.42	LM	—	6	35.918	114.642	0.6	C	240	8.38	1.80	RWL	—		—		—		2.3	RWL	—		—	
1972 13	1:18: 8.32		—	—	35.950	117.930	—		—	8.50	—	KKG	—		—		2.9	PAS	—		—		2.9	GDY
1972 13	14:13:59.48	LM	—	4	36.137	114.733	—	C	224	9.04	—	RWL	—		—		—		2.2	RWL	—		—	
1972 14	7:25:53.30		—	—	35.970	117.670	—		—	25.00	—	KKG	—		0.8	BRP	2.2	PAS	—		—		—	
1972 14	15: 8:36.61		—	—	36.660	116.040	—		—	11.50	—	KKG	—		—		—		—		—		—	
1972 14	15:39:30.55	LM	—	4	36.146	114.734	—	C	230	9.65	—	RWL	—		—		—		2.2	RWL	—		—	
1972 15	20:15:14.70		—	—	35.770	115.930	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 16	13:57:48.76	LM	—	4	35.921	114.808	—	C	284	5.76	—	RWL	—		—		—		1.8	RWL	—		—	
1972 16	16:23:33.58		—	—	37.280	114.850	—		—	25.00	—	KKG	—		—		—		—		—		—	
1972 16	22: 8:58.01		—	—	35.880	115.560	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 16	23:14: 4.88		—	—	38.100	115.060	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 17	7:39:21.05		—	—	37.780	115.100	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 17	7:46:58.66		—	—	37.780	115.100	—		—	17.20	—	KKG	—		—		3.7	RYN	—		—		—	
1972 17	9:29: 8.89		—	—	37.780	115.080	—		—	18.00	—	KKG	—		—		3.5	RYN	—		—		—	
1972 17	9:50: 4.44		—	—	37.780	115.100	—		—	18.20	—	KKG	5	BRP	4.0	BRP	3.6	RYN	—		4.6	PDX	4.6	GDY
1972 17	10: 2:27.28		—	—	37.760	115.060	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 17	10:22:18.73		—	—	38.080	117.000	—		—	10.00	—	KKG	—		—		—		—		—		—	
1972 17	10:48:40.90		—	—	37.730	115.100	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 17	11:11: 9.12		—	—	37.760	115.070	—		—	17.40	—	KKG	—		—		—		—		—		—	
1972 17	11:16:38.59		—	—	37.750	115.070	—		—	17.60	—	KKG	—		—		—		—		—		—	
1972 17	11:20:46.44		—	—	37.770	115.070	—		—	16.20	—	KKG	—		—		—		—		—		—	
1972 17	11:43:29.35		—	—	37.790	115.130	—		—	13.70	—	KKG	—		—		2.8	RYN	—		—		—	
1972 17	13:42:41.30		—	—	37.770	115.040	—		—	16.60	—	KKG	—		—		—		—		—		—	
1972 17	13:43:34.87		—	—	36.700	115.480	—		—	22.40	—	KKG	—		—		—		—		—		—	
1972 17	18: 9:52.65		—	—	38.200	114.920	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 17	18:27:56.79		—	—	35.870	116.160	—		—	0.00	—	KKG	—		1.3	BRP	2.6	PAS	—		—		2.6	GDY
1972 17	23:18:42.95		—	—	37.790	115.120	—		—	14.20	—	KKG	—		—		3.8	RYN	—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 NOV 18	2:10:29.47		—	—	36.030	117.530	—		—	12.20	—	KKG	—		—		3.5	PDX	—		—		3.5	GDY
1972 18	13:17:17.13		—	—	36.770	115.440	—		—	10.90	—	KKG	—		—		—		—		—		—	
1972 18	17:18:10.47		—	—	36.680	116.080	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 18	22:34:45.56		—	—	37.780	115.020	—		—	17.60	—	KKG	—		—		—		—		—		—	
1972 19	4:38:57.20		—	—	36.660	116.030	—		—	15.00	—	KKG	—		—		—		—		—		—	
1972 19	5:31:11.77		—	—	36.800	115.740	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 19	6:58:24.24		—	—	36.530	117.090	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 19	11:44:58.21		—	—	37.780	115.020	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 19	15:41: 3.31		—	—	36.750	115.330	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 19	15:41:27.96		—	—	36.740	115.370	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 19	15:46:24.98		—	—	37.770	115.120	—		—	16.30	—	KKG	—		—		2.9	RYN	—		—		—	
1972 19	15:53:28.27		—	—	37.760	115.080	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 19	18: 8: 4.16		—	—	37.780	115.110	—		—	14.70	—	KKG	—		—		—		—		—		—	
1972 19	20:10:29.19		—	—	36.690	115.380	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 19	21:10:36.27		—	—	37.780	115.110	—		—	14.70	—	KKG	—		—		—		—		—		—	
1972 20	17:52:15.05		—	—	37.730	115.080	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 21	13:35:58.38	LM	—	4	36.010	114.844	—	C	297	8.00*	—	RWL	—		—		—		1.3	RWL	—		—	
1972 21	13:57:14.96	LM	—	4	36.024	114.792	—	C	234	6.75	—	RWL	—		—		—		0.7	RWL	—		—	
1972 22	1:14:53.51		—	—	37.760	115.080	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 22	3: 3:14.89		—	—	36.810	117.660	—		—	11.70	—	KKG	—		—		—		—		—		—	
1972 22	5:33:21.64		—	—	37.790	115.200	—		—	10.80	—	KKG	—		—		—		—		—		—	
1972 22	9:27:32.89		—	—	36.730	117.240	—		—	19.00	—	KKG	—		—		—		—		—		—	
1972 23	5:52: 5.70		—	—	37.790	115.120	—		—	16.50	—	KKG	—		—		3.8	RYN	—		—		—	
1972 23	11:18:22.60		—	—	36.880	117.520	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 24	4:42:40.61		—	—	36.510	117.020	—		—	25.00	—	KKG	—		—		—		—		—		—	
1972 24	13:26:13.69		—	—	36.710	116.240	—		—	8.40	—	KKG	—		—		—		—		—		—	
1972 24	16:22:46.94	LM	—	5	36.047	114.813	2.0	D	131	5.00*	5.30	RWL	—		—		—		1.1	RWL	—		—	
1972 25	0:33:10.07		—	—	37.100	114.660	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 25	9:57:18.00		—	—	37.660	117.110	—		—	10.00	—	KKG	—		—		—		—		—		—	
1972 25	19:31:38.00		—	—	36.670	117.880	—	B	—	—	—	BRK	—		1.3	BRP	3.2	BRK	—		—		—	
1972 27	2:48:31.01	SIZ	—	—	36.940	116.020	—		—	6.00	—	KKG	—		—		—		—		—		—	
1972 27	7:40:12.70		—	—	37.140	117.100	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 27	13:49:30.82		—	—	36.610	116.160	—		—	13.10	—	KKG	—		—		—		—		—		—	
1972 28	5:47:40.76		—	—	36.750	116.680	—		—	11.30	—	KKG	—		—		—		—		—		—	
1972 29	5:45:37.12		—	—	37.840	114.530	—		—	0.00	—	KKG	—		—		3.7	RYN	—		—		2.9	PDX
1972 29	5:53:20.27		—	—	37.798	114.510	—		—	8.00*	—	GDY	—		—		3.9	RYN	—		—		3.0	PDX
1972 30	6:42:48.67		—	—	36.520	115.490	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 30	9:35:18.19		—	—	36.730	115.380	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 30	13:45:16.12		—	—	36.730	115.380	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 30	15:51: 2.34	LM	—	6	36.046	114.757	0.4	B	146	7.24	0.90	RWL	—		—		—		1.6	RWL	—		—	
1972 30	19:57:41.30		—	—	36.850	116.220	—		—	7.40	—	KKG	—		—		—		—		—		—	
1972 30	23:38:54.98	LM	—	6	36.046	114.758	0.4	B	147	7.14	0.90	RWL	—		—		—		1.7	RWL	—		—	
1972 DEC 1	7:42: 4.68	LM	—	4	36.151	114.647	—	C	239	0.77	—	RWL	—		—		—		1.2	RWL	—		—	
1972 1	10:31:44.12		—	—	37.160	114.580	—		—	15.60	—	KKG	—		—		—		—		—		—	
1972 1	13:41:15.59	SIZ	—	—	37.240	116.290	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 1	13:41:44.27	SIZ	—	—	37.240	116.280	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 1	21:54:31.67	LM	—	6	36.047	114.756	0.4	B	146	5.54	1.00	RWL	—		—		—		2.0	RWL	—		—	
1972 1	22:38:49.90	LM	—	5	36.048	114.762	0.1	C	144	7.53	0.20	RWL	—		—		—		1.5	RWL	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 DEC 2	20:26:31.09		—	—	35.730	115.980	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 2	21:45:58.01	LM	—	6	36.045	114.758	0.5	B	147	7.44	0.90	RWL	—		—		—		1.7	RWL	—		—	
1972 5	12:58:15.05		—	—	37.160	116.600	—		—	14.30	—	KKG	—		—		—		—		—		—	
1972 6	1:22:20.72	LM	—	6	36.038	114.813	0.2	B	174	5.88	0.40	RWL	—		—		—		2.1	RWL	—		—	
1972 6	2:15:10.45		—	—	37.270	117.850	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 6	8: 1:21.89		—	—	37.120	115.080	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 6	10:56:31.67		—	—	35.822	117.668	—	A	—	8.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1972 6	17:25:54.31		—	—	37.710	114.910	—		—	14.10	—	KKG	—		—		—		—		—		—	
1972 6	18:48:51.09		—	—	37.760	114.810	—		—	13.40	—	KKG	—		—		—		—		—		—	
1972 7	3:34: 5.26		—	—	37.120	115.600	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 7	4: 5:22.36		—	—	37.850	115.070	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 8	0:48: 9.76		—	—	36.040	115.420	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 8	2:11: 4.04		—	—	37.250	114.560	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 8	14:32:29.61	SIZ	—	—	37.130	115.910	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 8	19:56:13.21	LM	—	4	36.036	114.811	—	C	168	6.53	—	RWL	—		—		—		1.6	RWL	—		—	
1972 9	3:30:46.52	LM	—	8	36.042	114.799	0.4	B	95	2.62	1.80	RWL	—		—		—		2.0	RWL	—		—	
1972 9	3:31:10.79	LM	—	7	36.041	114.798	0.3	B	161	3.23	1.90	RWL	—		—		—		2.8	RWL	—		—	
1972 9	3:34:22.97	LM	—	7	36.044	114.808	0.3	B	176	4.40	0.80	RWL	—		—		—		2.0	RWL	—		—	
1972 9	3:43:27.07	LM	—	6	36.042	114.804	0.4	B	167	3.13	1.50	RWL	—		—		—		2.2	RWL	—		—	
1972 9	3:45:35.35	LM	—	6	36.041	114.809	0.5	B	172	4.12	1.40	RWL	—		—		—		1.8	RWL	—		—	
1972 9	4:22:50.13	LM	—	6	36.043	114.806	0.5	B	172	2.82	1.80	RWL	—		—		—		1.5	RWL	—		—	
1972 9	6:46:40.66	LM	—	8	36.042	114.801	0.4	B	97	3.08	1.60	RWL	—		—		—		2.6	RWL	—		—	
1972 9	7: 3:10.07	LM	—	8	36.041	114.803	0.3	B	165	3.19	0.90	RWL	—		—		—		2.1	RWL	—		—	
1972 9	10:57:51.75	LM	—	7	36.043	114.810	0.3	B	176	4.92	0.60	RWL	—		—		—		1.7	RWL	—		—	
1972 9	15:26:43.05	LM	—	8	36.038	114.807	0.4	B	166	3.84	1.10	RWL	—		—		—		1.8	RWL	—		—	
1972 10	22: 0:23.00	LM	—	8	36.040	114.798	0.6	B	91	5.00*	1.60	RWL	—		—		—		1.2	RWL	—		—	
1972 11	14:29:14.32	LM	—	5	36.036	114.808	1.5	C	137	5.00*	3.30	RWL	—		—		—		0.9	RWL	—		—	
1972 12	2:16:25.21		—	—	36.780	116.130	—		—	30.30	—	KKG	—		—		—		—		—		—	
1972 12	9:52: 5.40		—	—	37.330	116.000	—		—	11.70	—	KKG	—		—		—		—		—		—	
1972 12	16:30: 2.70	SIZ	0.08	4	37.081	116.039	—		—	—	—	RYN	—		—		4.0	RYN	—		—		—	
1972 12	20:54:55.17		—	—	36.580	115.150	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 13	4:42:48.97	LM	—	3	36.022	114.814	—	C	167	5.00*	—	RWL	—		—		—		1.4	RWL	—		—	
1972 14	11: 1:45.42		—	—	36.220	117.850	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 14	18:50:30.24	SIZ	—	—	37.120	116.160	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 14	19:31: 5.74		—	—	36.650	116.390	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 15	1:35:49.71		—	—	35.800	115.800	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 16	1: 9:38.78		—	—	36.340	116.720	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1972 16	16:36:24.71	SIZ	—	—	37.160	116.100	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 16	23: 3:23.69	LM	—	4	36.032	114.803	—	C	148	2.61	—	RWL	—		—		—		1.6	RWL	—		—	
1972 17	0:20:50.80		—	—	37.780	115.090	—		—	0.00*	—	KKG	—		—		3.0	RYN	—		—		—	
1972 18	4:52:28.17		—	—	37.770	115.070	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1972 18	4:57: 2.10		—	—	37.800	115.010	—		—	0.00	—	KKG	—		—		—		—		—		—	
1972 18	6:30: 4.20	LM	—	4	36.084	114.760	—	C	154	0.86	—	RWL	—		—		—		1.6	RWL	—		—	
1972 18	23:30:25.28	LM	—	4	36.086	114.759	—	C	151	0.54	—	RWL	—		—		—		1.4	RWL	—		—	
1972 19	5:20:25.28	LM	—	10	36.052	114.797	0.9	B	84	1.02	2.80	RWL	—		—		—		2.8	RWL	—		—	
1972 19	5:21:51.44	LM	—	5	36.041	114.799	0.5	D	133	0.97	14.80	RWL	—		—		—		2.6	RWL	—		—	
1972 19	5:22: 8.71	LM	—	5	36.045	114.803	1.4	D	124	1.72	13.60	RWL	—		—		—		2.6	RWL	—		—	
1972 19	5:26: 0.04	LM	—	10	36.050	114.797	0.8	B	85	1.12	2.70	RWL	—		—		—		2.9	RWL	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1972 DEC 19	5:43:48.03	LM	—	5	36.044	114.798	0.8	D	129	0.58	—	RWL	—		—		—		1.6	RWL	—		—	
1972 19	6:45:30.22	LM	—	4	36.085	114.757	—	C	151	4.27	—	RWL	—		—		—		1.8	RWL	—		—	
1972 19	9:57: 5.23	LM	—	4	36.034	114.805	—	C	142	3.46	—	RWL	—		—		—		1.5	RWL	—		—	
1972 19	23: 4:19.46		—	—	36.310	114.930	—		—	11.20	—	KKG	—		—		—		2.7	RWL	—		—	
1972 20	2:18: 5.55	LM	—	4	36.105	114.650	—	C	220	5.91	—	RWL	—		—		—		1.3	RWL	—		—	
1972 20	18:11:10.39		—	—	35.950	117.810	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 21	0:52:34.88		—	—	35.810	117.680	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 21	2:37:54.62		—	—	35.930	117.760	—		—	11.30	—	KKG	4	BRP	—		3.9	PAS	—		4.6	PDX	3.9	GDY
1972 21	2:50: 6.27		—	—	35.910	117.800	—		—	5.00	—	KKG	1	BRP	—		3.3	PAS	—		—		3.3	GDY
1972 21	2:56:41.59		—	—	36.340	117.620	—		—	0.00	—	KKG	1	BRP	—		3.3	PAS	—		—		3.3	GDY
1972 21	5:15:53.22		—	—	35.950	117.740	—		—	12.20	—	KKG	4	BRP	—		3.6	PAS	—		—		3.6	GDY
1972 21	6:56:11.04		—	—	36.090	117.930	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 21	7: 2:31.38		—	—	35.930	117.800	—		—	5.20	—	KKG	—		—		—		—		—		—	
1972 21	7:22:12.37		—	—	36.090	117.960	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 21	10:31:27.09		—	—	35.920	117.750	—		—	11.10	—	KKG	1	BRP	—		3.7	PAS	—		—		3.7	GDY
1972 21	11:26: 5.01		—	—	35.950	117.810	—		—	8.40	—	KKG	—		—		—		—		—		—	
1972 22	0:52:35.57		—	—	35.980	117.767	—	B	—	8.00*	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1972 22	1: 8:40.93		—	—	36.010	117.820	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 22	1:55:57.96		—	—	36.230	117.940	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1972 22	2:37: 3.78		—	—	35.965	117.759	—	B	—	8.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1972 22	2:37:44.73		—	—	35.959	117.771	—		—	8.00*	—	GDY	1	BRP	—		3.2	PAS	—		—		2.6	GDY
1972 22	3:13: 3.40	LM	—	6	36.035	114.802	0.3	B	92	2.06	1.40	RWL	—		—		—		1.7	RWL	—		—	
1972 23	0:41:41.19	SIZ	—	—	36.780	115.940	—		—	9.10	—	KKG	—		—		—		—		—		—	
1972 23	2:37: 0.08	LM	—	5	35.953	114.656	0.4	C	204	4.47	1.80	RWL	—		—		—		1.4	RWL	—		—	
1972 23	8:24:27.66	LM	—	4	36.114	114.715	—	C	147	5.00*	—	RWL	—		—		—		1.9	RWL	—		—	
1972 23	11:58: 0.03		—	—	37.430	115.000	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1972 25	7:21:10.60	LM	—	4	36.085	114.758	—	C	152	4.33	—	RWL	—		—		—		1.8	RWL	—		—	
1972 25	16:24:41.99		—	—	36.140	117.720	—		—	5.00*	—	KKG	—		—		2.9	PAS	—		—		—	
1972 26	10:36:18.17	LM	—	4	36.085	114.757	—	C	151	4.27	—	RWL	—		—		—		2.0	RWL	—		—	
1972 26	11:20: 4.96	LM	—	4	36.085	114.757	—	C	151	4.27	—	RWL	—		—		—		1.5	RWL	—		—	
1972 26	14:41:20.87		—	—	35.945	117.782	—	B	—	8.00*	—	PAS	—		1.1	BRP	2.4	PAS	—		—		—	
1972 27	15:10: 8.83		—	—	37.120	116.960	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 27	15:27:49.25		—	—	37.130	116.930	—		—	0.00*	—	KKG	—		—		3.1	RYN	—		—		—	
1972 27	15:31:52.67		—	—	37.120	116.970	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1972 28	10:54:51.22		—	—	37.220	117.200	—		—	2.30	—	KKG	—		—		—		—		—		—	
1972 30	12: 2:31.05	SIZ	—	—	36.850	115.910	—		—	4.70	—	KKG	—		—		—		—		—		—	
1972 30	18:50:52.99	LM	—	3	35.983	114.702	—	C	199	5.00*	—	RWL	—		—		—		1.3	RWL	—		—	
1972 31	4:31:21.10	LM	—	8	35.987	114.707	0.3	B	145	4.85	0.70	RWL	—		—		—		2.3	RWL	—		—	
1972 31	7:21:57.68		—	—	37.230	114.960	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1972 31	13:20:10.32	LM	—	4	36.135	114.699	—	C	204	3.35	—	RWL	—		—		—		1.5	RWL	—		—	
1973 JAN 1	4:58:40.41		—	—	37.280	115.610	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 3	3:59:13.17	LM	—	5	35.962	114.786	0.1	C	199	7.38	0.10	RWL	—		—		—		1.7	RWL	—		—	
1973 3	6:48:13.39	LM	—	5	35.961	114.787	—	C	202	7.57	—	RWL	—		—		—		2.0	RWL	—		—	
1973 3	9:58:40.13	SIZ	—	—	36.930	116.070	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1973 3	12:43:15.31	SIZ	—	—	37.180	116.020	—		—	21.70	—	KKG	—		—		—		—		—		—	
1973 3	14: 8:25.88		—	—	37.200	114.940	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 3	16:54:44.61	LM	—	4	35.964	114.786	—	C	195	6.50	—	RWL	—		—		—		1.2	RWL	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 JAN 3	21: 6:43.43		—	—	37.050	115.870	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1973 4	1:40:47.45	LM	—	3	35.966	114.788	—	C	194	5.00*	—	RWL	—		—		—		1.4	RWL	—		—	
1973 4	15:33:52.40		—	—	36.480	115.710	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 6	3:33:30.99		—	—	36.380	117.890	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 7	15:45: 3.54	LM	—	5	35.959	114.787	0.1	C	208	7.83	0.20	RWL	—		—		—		2.0	RWL	—		—	
1973 7	18:24:36.74		—	—	36.270	117.850	—		—	12.90	—	KKG	—		—		—		—		—		—	
1973 7	22: 7:41.34		—	—	37.100	117.020	—		—	12.10	—	KKG	—		—		—		—		—		—	
1973 7	23:24:10.82		—	—	35.720	115.980	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 8	22:46:16.34		—	—	37.100	117.000	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 8	23:29:19.20		—	—	35.780	116.580	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1973 9	0:32:45.08	SIZ	—	—	37.000	116.110	—		—	14.20	—	KKG	—		—		—		—		—		—	
1973 9	22:32:14.53		—	—	36.350	115.010	—		—	13.80	—	KKG	—		—		—		—		—		—	
1973 10	12:18:38.29	LM	—	6	36.110	114.652	0.2	B	99	5.22	0.50	RWL	—		—		—		1.9	RWL	—		—	
1973 11	1:49:44.33		—	—	37.040	115.190	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 11	3:49:26.52		—	—	36.590	115.360	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1973 11	13:25:42.05	LM	—	3	36.080	114.643	—	C	255	5.00*	—	RWL	—		—		—		1.2	RWL	—		—	
1973 11	16:20:37.14		—	—	37.070	117.360	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1973 11	23:25:47.25		—	—	35.950	115.190	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 12	2:30:47.24	LM	—	4	35.979	114.702	—	C	203	7.33	—	RWL	—		—		—		1.8	RWL	—		—	
1973 12	23:37:38.32		—	—	36.950	114.520	—		—	23.70	—	KKG	—		—		—		—		—		—	
1973 13	0:20:55.11		—	—	37.180	117.330	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 13	0:28:49.28		—	—	37.230	117.290	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 13	1:28:18.49	LM	—	7	35.954	114.789	0.6	C	219	8.86	0.70	RWL	—		—		—		2.3	RWL	—		—	
1973 13	1:29: 0.67	LM	—	4	35.946	114.800	—	C	245	9.09	—	RWL	—		—		—		1.9	RWL	—		—	
1973 13	1:30:52.50		—	—	37.130	117.890	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 13	5:22:34.68	SIZ	—	—	37.080	115.940	—		—	15.00	—	KKG	—		—		—		—		—		—	
1973 13	6:55:11.85	LM	—	4	36.000	114.782	—	C	131	2.47	—	RWL	—		—		—		1.5	RWL	—		—	
1973 13	7:30:49.59		—	—	37.080	115.530	—		—	15.10	—	KKG	—		—		—		—		—		—	
1973 13	10: 0:18.88	LM	—	7	35.955	114.789	0.5	C	217	8.82	0.70	RWL	—		—		—		2.5	RWL	—		—	
1973 13	10:12:21.29	LM	—	5	35.960	114.789	0.8	C	208	7.87	1.30	RWL	—		—		—		1.8	RWL	—		—	
1973 13	10:55:14.09		—	—	37.320	115.480	—		—	3.00	—	KKG	—		—		—		—		—		—	
1973 13	11: 8:52.36	LM	—	4	35.952	114.793	—	C	229	9.48	—	RWL	—		—		—		1.8	RWL	—		—	
1973 13	11:38:39.31	LM	—	5	35.946	114.794	3.5	D	242	9.82	4.60	RWL	—		—		—		2.1	RWL	—		—	
1973 13	14: 1:33.90	LM	—	4	35.952	114.793	—	C	228	9.53	—	RWL	—		—		—		1.5	RWL	—		—	
1973 13	18:26:20.34		—	—	37.100	115.530	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 13	22:56:48.52	LM	—	—	35.960	114.880	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 14	16:52:56.54		—	—	36.870	116.120	—		—	11.60	—	KKG	—		—		—		—		—		—	
1973 14	21: 2: 5.19		—	—	36.650	115.650	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 15	19:32:39.92		—	—	36.320	114.910	—		—	11.60	—	KKG	—		—		—		—		—		—	
1973 16	14:39:48.73	SIZ	—	—	37.120	116.200	—		—	4.60	—	KKG	—		—		—		—		—		—	
1973 17	23:59:33.64	SIZ	—	—	37.070	116.170	—		—	5.50	—	KKG	—		—		—		—		—		—	
1973 18	4:26:23.93	LM	—	6	35.931	114.645	0.7	C	229	3.86	2.40	RWL	—		—		—		2.0	RWL	—		—	
1973 18	15:30: 8.23		—	—	36.700	115.590	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 18	15:31:17.86		—	—	35.930	117.820	—		—	10.10	—	KKG	—		1.5	BRP	2.7	PAS	—		—		—	
1973 18	15:54:31.97	LM	—	6	35.926	114.648	0.8	C	232	3.42	3.40	RWL	—		—		—		2.0	RWL	—		—	
1973 18	20:10:25.10		—	—	36.030	116.050	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 18	20:58:58.07	SIZ	—	—	37.110	116.250	—		—	7.80	—	KKG	—		—		—		—		—		—	
1973 19	0:57: 5.95	SIZ	—	—	37.110	116.230	—		—	5.00	—	KKG	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 JAN 19	4: 2:32.66	LM	—	5	35.890	114.820	2.2	D	287	0.54	53.60	RWL	—		—		—		1.7	RWL	—		—	
1973 20	17:36: 0.06	SIZ	—	—	37.210	116.360	—		—	15.00	—	KKG	—		—		—		—		—		—	
1973 21	9:13: 9.98		—	—	36.970	117.600	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1973 21	10:58:40.49		—	—	36.510	116.130	—		—	6.70	—	KKG	—		—		—		—		—		—	
1973 21	22:28:14.00	LM	—	7	36.043	114.799	0.5	C	95	0.37	86.70	RWL	—		—		—		2.0	RWL	—		—	
1973 22	3: 2:56.96	LM	—	4	36.062	114.708	—	C	191	6.34	—	RWL	—		—		—		1.3	RWL	—		—	
1973 22	3:19: 5.40	LM	—	4	36.061	114.707	—	C	189	6.67	—	RWL	—		—		—		1.4	RWL	—		—	
1973 22	3:32: 3.55	LM	—	4	36.061	114.707	—	C	189	6.67	—	RWL	—		—		—		1.8	RWL	—		—	
1973 22	5:11:17.00	SIZ	—	—	37.090	115.930	—		—	19.00	—	KKG	—		—		—		—		—		—	
1973 22	9:24:57.72	LM	—	5	36.066	114.708	0.3	C	102	6.75	0.50	RWL	—		—		—		2.0	RWL	—		—	
1973 22	15:44:58.02	SIZ	—	—	37.170	116.470	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 22	23:42: 0.29		—	—	35.730	115.980	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 23	4: 9:11.80		—	—	36.540	116.070	—		—	14.60	—	KKG	—		—		—		—		—		—	
1973 23	19:28: 3.49	LM	—	3	36.091	114.638	—	C	264	5.00*	—	RWL	—		—		—		1.7	RWL	—		—	
1973 24	14:55:40.73		—	—	36.540	116.080	—		—	13.40	—	KKG	—		—		—		—		—		—	
1973 25	0:49:33.89		—	—	36.780	115.720	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 26	7:57:58.34	LM	—	5	36.043	114.814	0.2	C	116	3.75	0.50	RWL	—		—		—		1.5	RWL	—		—	
1973 26	13: 3:17.66	LM	—	5	36.044	114.813	0.1	C	115	3.12	0.20	RWL	—		—		—		1.7	RWL	—		—	
1973 26	15:41:51.18	LM	—	6	36.047	114.810	0.5	B	112	2.19	3.10	RWL	—		—		—		1.9	RWL	—		—	
1973 26	18:17: 3.27	LM	—	4	35.952	114.794	—	C	229	9.48	—	RWL	—		—		—		1.4	RWL	—		—	
1973 26	19:51:28.93		—	—	35.730	115.980	—		—	10.00	—	KKG	—		—		—		—		—		—	
1973 26	20:42:19.28	LM	—	4	35.947	114.798	—	C	243	10.75	—	RWL	—		—		—		1.2	RWL	—		—	
1973 27	0:27: 5.67	LM	—	4	35.953	114.794	—	C	228	9.62	—	RWL	—		—		—		1.0	RWL	—		—	
1973 27	11: 1:54.00		—	—	37.190	117.320	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 27	11:21:37.62		—	—	38.140	117.130	—		—	25.00	—	KKG	—		—		—		—		—		—	
1973 27	18: 1:43.35		—	—	36.680	115.850	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1973 28	1:12:16.02		—	—	36.340	117.830	—		—	0.00*	—	KKG	—		1.5	BRP	2.7	PAS	—		—		—	
1973 28	1:58:41.22		—	—	36.320	117.860	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 28	19: 6:26.78		—	—	36.780	116.280	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 29	14: 8:50.41	SIZ	—	—	36.850	115.980	—		—	7.80	—	KKG	—		—		—		—		—		—	
1973 29	14:38:46.85		—	—	37.880	114.730	—		—	11.30	—	KKG	—		—		—		—		—		—	
1973 29	15:47:43.66		—	—	37.120	114.890	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 29	20: 4:33.52	SIZ	—	—	36.850	116.000	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 31	23:56:57.23	LM	—	4	36.082	114.823	—	C	123	2.00*	—	RWL	—		—		—		2.0	RWL	—		—	
1973 FEB 1	15:14:50.20	SIZ	—	—	36.810	115.910	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 1	21:39:48.90		1.42	5	36.799	117.213	—		—	—	—	RYN	—		—		—		3.0	RYN	—		—	
1973 2	0:10:30.67	LM	—	4	36.082	114.820	—	C	120	2.03	—	RWL	—		—		—		1.7	RWL	—		—	
1973 2	0:43:50.27		—	—	36.330	117.820	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 2	23:24:15.35	LM	—	5	36.032	114.779	2.0	C	231	8.54	3.00	RWL	—		—		—		1.9	RWL	—		—	
1973 3	5:15:27.03		—	—	37.400	115.670	—		—	12.10	—	KKG	—		—		—		3.9	RYN	—		—	
1973 3	7: 2:23.56	LM	—	3	36.068	114.711	—	C	180	5.00*	—	RWL	—		—		—		1.6	RWL	—		—	
1973 3	13:14:50.64		—	—	36.710	115.810	—		—	-0.60	—	KKG	—		—		—		—		—		—	
1973 4	2:22:13.35	LM	—	3	35.972	114.758	—	C	219	5.00*	—	RWL	—		—		—		2.1	RWL	—		—	
1973 4	4:34:31.17		—	—	37.310	114.690	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 6	13:48: 5.36	LM	—	7	36.012	114.766	0.2	B	100	2.57	0.90	RWL	—		—		—		2.0	RWL	—		—	
1973 6	18: 7:17.34	LM	—	4	36.012	114.766	—	C	246	0.97	—	RWL	—		—		—		1.5	RWL	—		—	
1973 7	7:12: 8.01	LM	—	4	35.971	114.796	—	C	196	4.31	—	RWL	—		—		—		1.2	RWL	—		—	
1973 8	0:18: 4.31	LM	—	4	36.016	114.765	—	C	150	5.22	—	RWL	—		—		—		1.2	RWL	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 FEB 8	7:58:40.62	LM	—	9	36.037	114.771	0.3	A	75	9.32	0.80	RWL	—		—		—		2.3	RWL	—		—	
1973 8	16:34:59.59		—	—	36.040	115.370	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 9	5:46:19.09	SIZ	—	—	36.800	115.860	—		—	1.50	—	KKG	—		—		—		—		—		—	
1973 9	23: 9:51.62	SIZ	—	—	36.820	115.900	—		—	13.10	—	KKG	—		—		1.9	KKG	—		—		—	
1973 9	23:10:33.88	SIZ	—	—	36.820	115.900	—		—	5.00*	—	KKG	3	KKG	—		4.0	KKG	4.3	RYN	—		4.0	PAS
1973 9	23:15:59.94	SIZ	—	—	36.810	115.920	—		—	-1.00	—	KKG	—		—		—		—		—		—	
1973 10	3:48: 5.26		—	—	36.820	116.270	—		—	4.30	—	KKG	—		—		—		—		—		—	
1973 10	6: 2:24.27	SIZ	—	—	36.820	115.870	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 11	1:54:41.60		—	—	36.740	116.090	—		—	5.00	—	KKG	—		—		—		—		—		—	
1973 11	4: 2:39.99	SIZ	—	—	36.750	116.020	—		—	9.60	—	KKG	—		—		—		—		—		—	
1973 11	4:13:33.63	SIZ	—	—	36.750	116.020	—		—	14.00	—	KKG	—		—		—		—		—		—	
1973 11	6:38:55.26	SIZ	—	—	36.810	115.910	—		—	3.60	—	KKG	—		—		—		—		—		—	
1973 11	6:54: 0.57	SIZ	—	—	37.100	116.030	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 11	9:43:22.40	SIZ	—	—	36.770	116.010	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 11	10:15:34.77	SIZ	—	—	36.810	115.920	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 11	10:18:53.36	SIZ	—	—	36.810	115.870	—		—	1.00	—	KKG	—		—		—		—		—		—	
1973 11	10:30:18.57	SIZ	—	—	36.820	115.880	—		—	0.80	—	KKG	—		—		—		—		—		—	
1973 11	11:27:39.71	SIZ	—	—	36.810	115.910	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 11	12:39: 4.00	SIZ	—	—	36.820	115.910	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 11	21:43:12.03	LM	—	3	36.057	114.731	—	C	165	5.00*	—	RWL	—		—		—		2.0	RWL	—		—	
1973 12	1:44:24.90	SIZ	—	—	36.760	116.030	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 12	3:11:57.72		—	—	36.200	117.960	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 12	20:21:43.97		—	—	36.700	117.250	—		—	4.80	—	KKG	—		—		—		—		—		—	
1973 13	20:21:50.28	SIZ	—	—	36.810	115.900	—		—	1.70	—	KKG	—		—		—		—		—		—	
1973 13	23: 4:38.68	SIZ	—	—	36.810	115.900	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 14	3:52:11.17	LM	—	4	36.071	114.715	—	C	127	1.03	—	RWL	—		—		—		2.1	RWL	—		—	
1973 14	7:53:31.30	SIZ	—	—	37.210	116.190	—		—	5.70	—	KKG	—		—		—		—		—		—	
1973 14	9:16:45.12		—	—	36.830	116.280	—		—	0.70	—	KKG	—		—		—		—		—		—	
1973 14	9:28: 1.20		—	—	36.790	115.580	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 14	19: 1:56.17	SIZ	—	—	37.320	116.440	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 15	0:15:46.12	SIZ	—	—	36.820	115.900	—		—	1.60	—	KKG	—		—		—		—		—		—	
1973 15	0:30:52.69		—	—	36.330	114.890	—		—	19.80	—	KKG	—		—		—		—		—		—	
1973 15	1:38: 7.11	SIZ	—	—	36.810	115.890	—		—	1.00	—	KKG	—		—		—		—		—		—	
1973 15	4:19:17.72	SIZ	—	—	36.810	115.900	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 15	9:52:57.11	SIZ	—	—	36.820	115.900	—		—	1.10	—	KKG	—		—		—		—		—		—	
1973 15	10: 9:56.17	SIZ	—	—	36.820	115.890	—		—	0.50	—	KKG	—		—		—		—		—		—	
1973 15	17:56:48.49	LM	—	3	36.126	114.633	—	C	262	5.00*	—	RWL	—		—		—		1.6	RWL	—		—	
1973 15	21:21:52.62	LM	—	4	35.992	114.770	—	C	128	2.93	—	RWL	—		—		—		1.1	RWL	—		—	
1973 15	23: 6: 8.88	SIZ	—	—	36.820	115.910	—		—	16.30	—	KKG	3	KKG	—		3.5	KKG	3.7	RYN	—		—	
1973 15	23:14:57.13	SIZ	—	—	36.810	115.910	—		—	11.70	—	KKG	3	KKG	—		4.0	KKG	3.4	RYN	—		—	
1973 16	0: 0:55.48	SIZ	—	—	36.810	115.900	—		—	8.50	—	KKG	—		—		—		—		—		—	
1973 16	2:12: 4.10	SIZ	—	—	36.790	116.020	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 16	3:12:47.57	SIZ	—	—	36.800	115.930	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 16	4:10: 5.17	SIZ	—	—	36.810	115.880	—		—	5.50	—	KKG	—		—		—		—		—		—	
1973 16	4:55:11.98	SIZ	—	—	36.810	115.900	—		—	2.50	—	KKG	—		—		—		—		—		—	
1973 16	6:32:53.76	SIZ	—	—	36.810	115.920	—		—	8.00	—	KKG	—		—		—		—		—		—	
1973 16	7: 1:42.07		—	—	36.940	116.810	—		—	0.00*	—	KKG	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)			ORIGIN TIME HR	MN	SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973	FEB	16	10	33	42.15	SIZ	—	—	36.810	115.840	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973		16	10	59	33.51	LM	—	3	35.946	114.798	—	C	244	5.00*	—	RWL	—		—		—		1.5	RWL	—		—	
1973		16	13	15	23.65	LM	—	7	35.898	114.831	3.7	D	281	2.17	6.80	RWL	—		—		—		1.8	RWL	—		—	
1973		16	15	24	57.90	SIZ	—	—	36.820	115.870	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973		17	4	1	20.86	LM	—	4	36.130	114.718	—	C	166	7.28	—	RWL	—		—		—		1.1	RWL	—		—	
1973		17	4	56	12.43		—	—	36.690	115.970	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973		17	10	56	42.13	LM	—	3	35.933	114.774	—	C	249	5.00*	—	RWL	—		—		—		1.4	RWL	—		—	
1973		17	18	30	49.92	LM	—	3	36.068	114.804	—	C	267	5.00*	—	RWL	—		—		—		1.0	RWL	—		—	
1973		17	19	53	18.88	SIZ	—	—	36.800	115.880	—		—	-0.80	—	KKG	—		—		—		—		—		—	
1973		18	1	18	6.84		—	—	36.870	116.320	—		—	15.70	—	KKG	—		—		—		—		—		—	
1973		18	7	57	24.80		—	—	36.650	115.720	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973		18	18	4	44.23	SIZ	—	—	36.820	115.910	—		—	17.70	—	KKG	—		—		4.0	KKG	3.8	RYN	—		4.0	PAS
1973		18	18	31	10.80	SIZ	—	—	36.810	115.880	—		—	5.20	—	KKG	—		—		—		—		—		—	
1973		18	20	9	30.09	SIZ	—	—	36.820	115.930	—		—	2.20	—	KKG	—		—		—		—		—		—	
1973		18	21	14	16.94	SIZ	—	—	36.810	115.930	—		—	0.70	—	KKG	—		—		—		—		—		—	
1973		18	21	44	10.52	SIZ	—	—	36.810	115.940	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973		19	2	26	55.82	SIZ	—	—	36.810	115.930	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973		19	3	10	41.67	SIZ	—	—	36.820	115.900	—		—	16.30	—	KKG	—		—		2.9	KKG	3.4	RYN	—		3.0	PAS
1973		19	3	13	10.50	SIZ	—	—	36.810	115.910	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973		19	7	26	29.83	SIZ	—	—	36.810	115.890	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973		19	10	12	1.47		—	—	36.900	115.480	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973		19	11	15	21.51	SIZ	—	—	36.830	115.880	—		—	16.30	—	KKG	5	BRP	4.0	BRP	4.1	PAS	—		4.3	PDX	—	
1973		19	11	18	42.39	SIZ	—	—	36.830	115.900	—		—	5.00	—	KKG	—		—		3.0	PAS	2.9	RYN	—		—	
1973		19	11	20	48.44	SIZ	—	—	36.810	115.930	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973		19	11	26	50.51	SIZ	—	—	36.820	115.900	—		—	15.60	—	KKG	—		—		3.7	PAS	—		—		—	
1973		19	11	33	6.13	SIZ	—	—	36.820	115.920	—		—	-0.10	—	KKG	—		—		—		—		—		—	
1973		19	11	34	10.66	SIZ	—	—	36.820	115.930	—		—	1.10	—	KKG	—		—		—		—		—		—	
1973		19	11	36	7.73	SIZ	—	—	36.820	115.930	—		—	0.50	—	KKG	—		—		—		—		—		—	
1973		19	11	39	0.21	SIZ	—	—	36.820	115.900	—		—	15.80	—	KKG	—		—		3.2	PAS	—		—		—	
1973		19	11	41	32.48	SIZ	—	—	36.820	115.880	—		—	3.50	—	KKG	—		—		—		—		—		—	
1973		19	11	47	46.57	SIZ	—	—	36.830	115.890	—		—	6.40	—	KKG	—		—		—		—		—		—	
1973		19	11	49	39.25		—	—	36.790	115.800	—		—	15.90	—	KKG	—		—		—		—		—		—	
1973		19	11	50	34.89	SIZ	—	—	36.820	115.910	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973		19	12	1	36.50	SIZ	—	—	36.810	115.880	—		—	7.70	—	KKG	—		—		—		—		—		—	
1973		19	12	11	37.00	SIZ	—	—	36.810	115.880	—		—	1.90	—	KKG	—		—		—		—		—		—	
1973		19	12	16	44.05	SIZ	—	—	36.820	115.920	—		—	-0.30	—	KKG	—		—		—		—		—		—	
1973		19	12	19	20.44	SIZ	—	—	36.810	115.900	—		—	4.30	—	KKG	—		—		—		—		—		—	
1973		19	12	20	58.99	SIZ	—	—	36.820	115.930	—		—	1.40	—	KKG	—		—		—		—		—		—	
1973		19	12	22	31.54	SIZ	—	—	36.810	115.890	—		—	16.10	—	KKG	—		—		3.1	PAS	—		—		—	
1973		19	12	41	49.36	SIZ	—	—	36.810	115.900	—		—	4.70	—	KKG	—		—		—		—		—		—	
1973		19	12	55	56.62	SIZ	—	—	36.820	115.920	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973		19	13	43	18.98	SIZ	—	—	36.830	115.880	—		—	17.80	—	KKG	—		—		3.8	PAS	4.2	RYN	—		—	
1973		19	14	6	4.69	SIZ	—	—	36.810	115.840	—		—	16.20	—	KKG	—		—		—		—		—		—	
1973		19	14	41	8.00	SIZ	—	—	36.820	115.900	—		—	3.30	—	KKG	—		—		—		—		—		—	
1973		19	15	17	16.50	SIZ	—	—	36.820	115.900	—		—	1.70	—	KKG	—		—		—		—		—		—	
1973		19	16	11	58.51	SIZ	—	—	36.810	115.890	—		—	1.90	—	KKG	—		—		—		—		—		—	
1973		19	16	29	38.78	SIZ	—	—	36.820	115.910	—		—	5.20	—	KKG	—		—		—		—		—		—	
1973		19	17	19	49.87	SIZ	—	—	36.810	115.900	—		—	2.80	—	KKG	—		—		—		—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 FEB 19	17:27: 6.62	SIZ	—	—	36.810	115.890	—		—	11.80	—	KKG	—		—		—		—		—		—	
1973 19	17:32:33.61	SIZ	—	—	36.820	115.910	—		—	1.60	—	KKG	—		—		—		—		—		—	
1973 19	17:39:52.67	SIZ	—	—	36.820	115.930	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 19	17:44:25.31	SIZ	—	—	36.810	115.930	—		—	1.30	—	KKG	—		—		—		—		—		—	
1973 19	17:46:13.06	SIZ	—	—	36.820	115.900	—		—	2.30	—	KKG	—		—		—		—		—		—	
1973 19	18: 4:33.25	SIZ	—	—	36.820	115.900	—		—	15.00	—	KKG	—		—		—		—		—		—	
1973 19	18:25: 2.14	SIZ	—	—	36.810	115.890	—		—	2.60	—	KKG	—		—		—		—		—		—	
1973 19	18:44:45.30	SIZ	—	—	36.810	115.890	—		—	2.10	—	KKG	—		—		—		—		—		—	
1973 19	18:50: 4.36	SIZ	—	—	36.820	115.950	—		—	-0.30	—	KKG	—		—		—		—		—		—	
1973 19	18:53: 3.59	SIZ	—	—	36.810	115.920	—		—	2.70	—	KKG	—		—		—		—		—		—	
1973 19	19:17:26.99	SIZ	—	—	36.820	115.900	—		—	3.80	—	KKG	—		—		—		—		—		—	
1973 19	19:21:13.40	SIZ	—	—	36.820	115.910	—		—	2.50	—	KKG	—		—		—		—		—		—	
1973 19	19:35:46.91	SIZ	—	—	36.810	115.900	—		—	8.50	—	KKG	—		—		—		—		—		—	
1973 19	19:46:35.33	SIZ	—	—	36.820	115.850	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 19	20: 1:37.67	SIZ	—	—	36.810	115.900	—		—	-0.10	—	KKG	—		—		—		—		—		—	
1973 19	20:43:33.04	SIZ	—	—	36.820	115.930	—		—	0.90	—	KKG	—		—		—		—		—		—	
1973 19	20:58: 8.48	SIZ	—	—	36.820	115.900	—		—	13.60	—	KKG	—		—		3.3	KKG	—		—		—	
1973 19	21:41:26.17	SIZ	—	—	36.820	115.940	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 19	22:15: 5.06	SIZ	—	—	36.810	115.950	—		—	1.60	—	KKG	—		—		—		—		—		—	
1973 19	22:27:46.70	SIZ	—	—	36.810	115.920	—		—	-1.20	—	KKG	—		—		—		—		—		—	
1973 19	23:10:21.00	SIZ	—	—	36.820	115.910	—		—	1.40	—	KKG	—		—		—		—		—		—	
1973 19	23:38:19.50	SIZ	—	—	36.820	115.860	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 19	23:42:18.98	SIZ	—	—	36.820	115.920	—		—	-0.40	—	KKG	—		—		—		—		—		—	
1973 19	23:53: 6.98	SIZ	—	—	36.810	115.950	—		—	-0.10	—	KKG	—		—		—		—		—		—	
1973 20	1:44:36.63	SIZ	—	—	36.820	115.930	—		—	0.50	—	KKG	—		—		—		—		—		—	
1973 20	3:21:56.47	SIZ	—	—	36.810	115.880	—		—	2.20	—	KKG	—		—		—		—		—		—	
1973 20	5: 0:21.79	SIZ	—	—	36.890	116.000	—		—	1.40	—	KKG	—		—		—		—		—		—	
1973 20	7: 4:40.11	SIZ	—	—	36.820	115.900	—		—	0.30	—	KKG	—		—		—		—		—		—	
1973 20	7:29:11.53	SIZ	—	—	36.810	115.950	—		—	0.10	—	KKG	—		—		—		—		—		—	
1973 20	8:36: 4.40	SIZ	—	—	36.810	115.900	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 20	8:55:35.49	LM	—	10	36.089	114.677	0.4	A	77	6.34	0.90	RWL	—		—		—		1.9	RWL	—		—	
1973 20	9:47:15.05	SIZ	—	—	36.820	115.930	—		—	-0.10	—	KKG	—		—		—		—		—		—	
1973 20	10: 3:29.03	SIZ	—	—	36.820	115.890	—		—	0.90	—	KKG	—		—		—		—		—		—	
1973 20	10: 8:16.08	SIZ	—	—	36.820	115.940	—		—	0.10	—	KKG	—		—		—		—		—		—	
1973 20	10:42:36.60	SIZ	—	—	36.820	115.910	—		—	0.10	—	KKG	—		—		—		—		—		—	
1973 20	13:19:21.52	LM	—	4	36.090	114.671	—	C	160	0.05	—	RWL	—		—		—		1.6	RWL	—		—	
1973 20	14:24: 9.90	LM	—	7	35.982	114.702	0.9	B	98	6.59	3.20	RWL	—		—		—		1.9	RWL	—		—	
1973 20	14:48:59.28	SIZ	—	—	36.820	115.900	—		—	9.90	—	KKG	—		—		—		—		—		—	
1973 20	15:43: 8.47	SIZ	—	—	36.830	115.880	—		—	5.00*	—	KKG	—		—		3.5	KKG	—		—		—	
1973 20	16: 5:32.51	SIZ	—	—	36.810	115.910	—		—	6.70	—	KKG	—		—		—		—		—		—	
1973 20	16:36:14.79	SIZ	—	—	36.810	115.900	—		—	2.20	—	KKG	—		—		—		—		—		—	
1973 20	17:44:16.82	SIZ	—	—	36.810	115.890	—		—	8.30	—	KKG	—		—		—		—		—		—	
1973 20	20: 4:22.57	SIZ	—	—	36.820	115.920	—		—	0.20	—	KKG	—		—		—		—		—		—	
1973 20	21:53: 3.01	SIZ	—	—	36.820	115.930	—		—	2.10	—	KKG	—		—		—		2.8	RYN	—		—	
1973 20	22: 9:21.56	SIZ	—	—	36.820	115.890	—		—	1.60	—	KKG	—		—		—		—		—		—	
1973 20	22:44:58.09	SIZ	—	—	36.810	115.950	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 21	0:28: 9.53	SIZ	—	—	36.810	115.890	—		—	5.00*	—	KKG	—		—		—		2.9	RYN	—		—	
1973 21	2:29:33.70	SIZ	—	—	36.810	115.890	—		—	2.00	—	KKG	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 FEB 21	3: 5: 9.80	SIZ	—	—	36.810	115.850	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 21	4:25:24.85	SIZ	—	—	36.810	115.940	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 21	4:30:10.98	SIZ	—	—	36.820	115.890	—		—	1.00	—	KKG	—		—		—		—		—		—	
1973 21	6:43: 0.13	SIZ	—	—	36.820	115.930	—		—	0.80	—	KKG	—		—		—		—		—		—	
1973 21	7:43:51.02	SIZ	—	—	36.810	115.930	—		—	1.50	—	KKG	—		—		—		—		—		—	
1973 21	7:59:48.10	LM	—	4	36.004	114.727	—	C	156	0.03	—	RWL	—		—		—		1.6	RWL	—		—	
1973 21	9:57:46.84	SIZ	—	—	36.810	115.910	—		—	3.70	—	KKG	—		—		—		—		—		—	
1973 21	10: 1: 7.51	SIZ	—	—	36.820	115.900	—		—	3.70	—	KKG	—		—		—		—		—		—	
1973 21	11: 5: 8.76	SIZ	—	—	36.820	115.920	—		—	2.80	—	KKG	—		—		—		—		—		—	
1973 21	17: 0: 2.30	LM	—	5	35.991	114.711	0.2	C	97	3.51	0.80	RWL	—		—		—		1.1	RWL	—		—	
1973 21	18:15:46.32	SIZ	—	—	36.810	115.900	—		—	8.50	—	KKG	—		—		—		2.7	RYN	—		—	
1973 22	0:29:14.92	SIZ	—	—	36.820	115.880	—		—	1.00	—	KKG	—		—		—		—		—		—	
1973 22	0:47:24.83	SIZ	—	—	37.180	116.280	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 22	1:23:24.29	SIZ	—	—	36.810	115.920	—		—	-0.02	—	KKG	—		—		—		—		—		—	
1973 22	5:37:49.67	SIZ	—	—	37.300	116.510	—		—	-0.10	—	KKG	—		—		—		—		—		—	
1973 22	6:17:24.47	SIZ	—	—	37.310	116.520	—		—	15.00	—	KKG	—		—		—		—		—		—	
1973 22	10: 2:49.00	SIZ	—	—	36.810	115.900	—		—	4.10	—	KKG	—		—		—		—		—		—	
1973 22	12:48:27.71	SIZ	—	—	36.810	115.910	—		—	4.30	—	KKG	—		—		—		—		—		—	
1973 22	23: 9:10.14		—	—	35.900	115.250	—		—	20.00	—	KKG	—		—		—		—		—		—	
1973 23	0:20:41.81	SIZ	—	—	36.820	115.910	—		—	1.30	—	KKG	—		—		—		—		—		—	
1973 23	0:52:24.51	SIZ	—	—	36.820	115.910	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 23	0:56:24.89	SIZ	—	—	36.810	115.920	—		—	2.10	—	KKG	—		—		—		—		—		—	
1973 23	4:13:19.35	SIZ	—	—	36.810	115.910	—		—	2.40	—	KKG	—		—		—		—		—		—	
1973 23	11:36:31.95	LM	—	6	36.110	114.688	0.1	B	171	6.55	0.20	RWL	—		—		—		1.8	RWL	—		—	
1973 23	12:13:33.23	LM	—	4	36.115	114.683	—	C	181	5.97	—	RWL	—		—		—		1.3	RWL	—		—	
1973 23	12:30:35.57	LM	—	5	36.113	114.689	0.4	C	174	6.89	0.80	RWL	—		—		—		1.5	RWL	—		—	
1973 23	14:26:11.02	SIZ	—	—	36.820	115.890	—		—	3.10	—	KKG	—		—		—		—		—		—	
1973 23	16:58:19.82	SIZ	—	—	36.810	115.900	—		—	0.10	—	KKG	—		—		—		—		—		—	
1973 23	18: 1:18.63	SIZ	—	—	36.810	115.940	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 23	18:53:12.46	LM	—	6	36.093	114.676	1.0	B	113	2.92	3.20	RWL	—		—		—		2.1	RWL	—		—	
1973 23	19:27:11.30	SIZ	—	—	36.820	115.870	—		—	4.10	—	KKG	—		—		—		—		—		—	
1973 23	19:57:18.95	SIZ	—	—	36.820	115.910	—		—	0.30	—	KKG	—		—		—		—		—		—	
1973 23	20: 9:51.13	SIZ	—	—	36.810	115.910	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 23	20:56:56.47		—	—	36.820	115.810	—		—	1.00	—	KKG	—		—		—		—		—		—	
1973 24	2:49: 0.89	SIZ	—	—	36.820	115.920	—		—	0.80	—	KKG	—		—		—		—		—		—	
1973 24	5:55: 8.27	SIZ	—	—	36.810	115.890	—		—	1.20	—	KKG	—		—		—		—		—		—	
1973 24	13:40: 8.56	SIZ	—	—	36.820	115.920	—		—	0.90	—	KKG	—		—		—		—		—		—	
1973 24	17:51:24.43	LM	—	8	36.037	114.651	0.2	A	83	5.33	0.40	RWL	—		—		—		2.0	RWL	—		—	
1973 24	18:28: 1.27	SIZ	—	—	36.820	115.910	—		—	0.60	—	KKG	—		—		—		—		—		—	
1973 24	21:56:58.00		—	—	36.330	114.930	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 24	23:24:22.35		—	—	37.370	117.640	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1973 25	2: 4:27.95	LM	—	4	36.100	114.635	—	C	191	5.04	—	RWL	—		—		—		1.5	RWL	—		—	
1973 25	4: 9:26.08	SIZ	—	—	36.820	115.890	—		—	3.70	—	KKG	—		—		—		—		—		—	
1973 25	4:11:31.47	SIZ	—	—	36.820	115.910	—		—	1.20	—	KKG	—		—		—		—		—		—	
1973 25	6:35:58.97	SIZ	—	—	36.820	115.950	—		—	0.40	—	KKG	—		—		—		—		—		—	
1973 25	6:49:23.61	LM	—	3	35.928	114.601	—	C	258	5.00*	—	RWL	—		—		—		1.4	RWL	—		—	
1973 25	6:57: 2.50	SIZ	—	—	36.810	115.930	—		—	0.80	—	KKG	—		—		—		—		—		—	
1973 25	7:34:15.16		—	—	37.390	115.680	—		—	14.50	—	KKG	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 FEB 25	7:38:26.65	SIZ	—	—	36.810	115.980	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 25	12:39:32.14	SIZ	—	—	36.810	115.940	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 25	13: 0:41.25	SIZ	—	—	36.780	115.910	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 25	15:38:37.59	SIZ	—	—	36.780	115.960	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 25	20:25:42.79	SIZ	—	—	36.780	115.970	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 26	3:55:19.32	SIZ	—	—	36.820	115.900	—		—	2.00	—	KKG	4	BRP	3.0	BRP	—		—		3.6	PDX	3.6	GDY
1973 26	4: 9: 8.25	SIZ	—	—	36.810	115.900	—		—	4.70	—	KKG	—		—		—		—		—		—	
1973 26	6:34:51.55	SIZ	—	—	36.810	115.890	—		—	1.50	—	KKG	—		—		—		—		—		—	
1973 26	8:34:47.98	SIZ	—	—	36.820	115.910	—		—	1.20	—	KKG	—		—		—		—		—		—	
1973 26	10:59:37.97	SIZ	—	—	36.800	115.890	—		—	0.50	—	KKG	—		—		—		—		—		—	
1973 26	20:51:28.87	LM	—	4	35.959	114.623	—	C	192	4.13	—	RWL	—		—		—		1.5	RWL	—		—	
1973 27	1:55:48.09	SIZ	—	—	36.820	115.890	—		—	1.30	—	KKG	—		—		—		—		—		—	
1973 27	2:43: 9.78	SIZ	—	—	36.810	115.920	—		—	2.10	—	KKG	—		—		—		—		—		—	
1973 27	3:43:28.68	SIZ	—	—	36.810	115.940	—		—	2.30	—	KKG	—		—		—		—		—		—	
1973 27	4:10:54.19	LM	—	4	35.976	114.812	—	C	211	8.04	—	RWL	—		—		—		1.2	RWL	—		—	
1973 27	5:38: 6.42	LM	—	8	35.993	114.792	0.3	B	154	3.70	1.00	RWL	—		—		—		2.1	RWL	—		—	
1973 27	8:38:49.95	SIZ	—	—	36.820	115.920	—		—	2.90	—	KKG	—		—		—		—		—		—	
1973 27	8:48:35.08	SIZ	—	—	36.810	115.900	—		—	1.70	—	KKG	—		—		—		—		—		—	
1973 27	9:47: 7.86	SIZ	—	—	36.820	115.920	—		—	2.30	—	KKG	—		—		—		—		—		—	
1973 27	9:55:22.29	SIZ	—	—	36.810	115.850	—		—	16.70	—	KKG	—		—		—		—		—		—	
1973 27	10: 2:11.29	LM	—	7	36.043	114.799	0.3	C	95	0.54	59.50	RWL	—		—		—		1.8	RWL	—		—	
1973 27	11:34:37.31	SIZ	—	—	36.780	115.930	—		—	-0.10	—	KKG	—		—		—		—		—		—	
1973 27	11:45:32.53	LM	—	7	36.044	114.799	0.4	B	96	1.58	4.30	RWL	—		—		—		1.8	RWL	—		—	
1973 27	11:50:35.51	SIZ	—	—	36.780	115.920	—		—	0.60	—	KKG	—		—		—		—		—		—	
1973 27	13: 3: 1.38	SIZ	—	—	36.820	115.910	—		—	4.00	—	KKG	—		—		—		—		—		—	
1973 27	13:28:32.88	SIZ	—	—	36.820	115.900	—		—	0.90	—	KKG	—		—		—		—		—		—	
1973 27	14:28: 3.11	SIZ	—	—	36.990	116.250	—		—	7.00	—	KKG	—		—		—		—		—		—	
1973 27	19: 0:21.33	SIZ	—	—	36.820	115.900	—		—	1.40	—	KKG	—		—		—		—		—		—	
1973 27	19: 1:40.32	SIZ	—	—	36.820	115.920	—		—	0.80	—	KKG	—		—		—		—		—		—	
1973 27	19:49:18.51	SIZ	—	—	36.810	115.930	—		—	-0.60	—	KKG	—		—		—		—		—		—	
1973 27	19:58:17.20	SIZ	—	—	36.820	115.930	—		—	1.50	—	KKG	—		—		—		—		—		—	
1973 28	0:31:21.16	SIZ	—	—	36.810	115.940	—		—	3.90	—	KKG	—		—		—		—		—		—	
1973 28	2: 0:34.31	SIZ	—	—	36.820	115.930	—		—	0.20	—	KKG	—		—		—		—		—		—	
1973 28	3:34:18.04	SIZ	—	—	36.820	115.910	—		—	2.40	—	KKG	—		—		—		—		—		—	
1973 28	5:31:32.84	SIZ	—	—	36.820	115.930	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 28	8: 0: 7.09	SIZ	—	—	36.810	115.900	—		—	12.30	—	KKG	—		—		—		—		—		—	
1973 28	10:44:16.84	SIZ	—	—	36.810	115.940	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 28	10:59:32.52	SIZ	—	—	36.820	115.910	—		—	3.40	—	KKG	—		—		—		—		—		—	
1973 28	11: 1:15.78	SIZ	—	—	36.810	115.900	—		—	0.20	—	KKG	—		—		—		—		—		—	
1973 MAR 1	2: 6:55.96	SIZ	—	—	36.820	115.870	—		—	5.10	—	KKG	—		—		—		—		—		—	
1973 1	2: 9:56.73	SIZ	—	—	36.820	115.890	—		—	1.50	—	KKG	—		—		—		—		—		—	
1973 1	3:16:15.60	SIZ	—	—	36.820	115.910	—		—	1.10	—	KKG	—		—		—		—		—		—	
1973 1	4:14:27.95	LM	—	7	36.094	114.735	0.3	B	99	5.13	0.90	RWL	—		—		—		1.9	RWL	—		—	
1973 1	6:12:27.29	SIZ	—	—	36.820	115.930	—		—	2.10	—	KKG	—		—		—		—		—		—	
1973 1	11: 7:30.75	SIZ	—	—	36.810	115.920	—		—	1.60	—	KKG	—		—		—		—		—		—	
1973 1	14: 0:55.41	SIZ	—	—	36.810	115.910	—		—	1.00	—	KKG	—		—		—		—		—		—	
1973 1	14:57:20.37	SIZ	—	—	36.820	115.930	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 1	18:42:44.37	SIZ	—	—	36.820	115.950	—		—	1.80	—	KKG	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 MAR 1	18:46: 0.57	SIZ	—	—	36.810	115.950	—		—	-0.40	—	KKG	—		—		—		—		—		—	
1973 1	18:52:32.72	SIZ	—	—	36.810	115.920	—		—	3.30	—	KKG	—		—		—		—		—		—	
1973 1	22: 1:27.33	SIZ	—	—	36.810	115.910	—		—	9.00	—	KKG	—		—		—		—		—		—	
1973 1	23:54:24.48	SIZ	—	—	36.820	115.920	—		—	1.80	—	KKG	—		—		—		—		—		—	
1973 2	0:10:57.12	SIZ	—	—	36.820	115.930	—		—	0.80	—	KKG	—		—		—		—		—		—	
1973 2	4:26: 9.82	SIZ	—	—	36.820	115.920	—		—	1.70	—	KKG	—		—		—		—		—		—	
1973 2	8:14:42.37	LM	—	6	36.092	114.734	0.4	B	179	5.92	1.10	RWL	—		—		—		1.7	RWL	—		—	
1973 2	14:11: 1.56	LM	—	8	36.093	114.735	0.3	B	99	5.09	1.00	RWL	—		—		—		2.3	RWL	—		—	
1973 2	18:21:36.37	LM	—	7	36.094	114.736	0.3	B	99	5.17	0.90	RWL	—		—		—		1.8	RWL	—		—	
1973 3	1:18:44.11	LM	—	6	36.035	114.776	1.2	B	131	9.55	3.10	RWL	—		—		—		1.5	RWL	—		—	
1973 3	1:23:29.12	LM	—	6	36.093	114.737	0.5	B	97	5.61	1.30	RWL	—		—		—		1.6	RWL	—		—	
1973 3	3:19:31.55	LM	—	8	36.095	114.735	0.3	B	99	5.35	0.90	RWL	—		—		—		2.0	RWL	—		—	
1973 3	9:50: 9.14	LM	—	5	35.958	114.798	1.2	C	221	5.21	1.80	RWL	—		—		—		1.3	RWL	—		—	
1973 4	11:12:51.40		0.31	7	38.063	115.185	—		—	—	—	RYN	—		—		—		2.8	RYN	—		—	
1973 4	13:13:24.04	SIZ	—	—	36.820	115.910	—		—	1.60	—	KKG	—		—		—		—		—		—	
1973 4	14:45:16.62	LM	—	7	36.096	114.735	0.5	B	100	5.52	1.40	RWL	—		—		—		1.7	RWL	—		—	
1973 4	19:43: 5.41	LM	—	8	36.095	114.733	0.5	B	102	5.01	1.50	RWL	—		—		—		1.9	RWL	—		—	
1973 4	19:44:51.98	LM	—	5	36.091	114.734	0.1	C	128	5.62	0.20	RWL	—		—		—		1.9	RWL	—		—	
1973 4	20:27:21.72	LM	—	6	36.092	114.735	0.3	B	98	5.53	0.90	RWL	—		—		—		1.6	RWL	—		—	
1973 5	4:22:45.02	SIZ	—	—	36.810	115.930	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 5	8:34:14.78		—	—	36.950	115.060	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 5	8:49:55.39		—	—	36.970	115.070	—		—	0.60	—	KKG	—		—		—		—		—		—	
1973 5	9:24:17.57	LM	—	9	36.095	114.735	0.2	A	83	5.28	0.50	RWL	—		—		—		2.6	RWL	—		—	
1973 5	9:25:11.76	LM	—	7	36.093	114.731	0.7	B	103	6.02	1.70	RWL	—		—		—		1.9	RWL	—		—	
1973 5	9:33: 2.43	LM	—	9	36.095	114.735	0.2	B	82	5.07	0.70	RWL	—		—		—		2.8	RWL	—		—	
1973 5	9:37:47.63	LM	—	8	36.095	114.735	0.3	B	100	5.19	0.90	RWL	—		—		—		2.3	RWL	—		—	
1973 5	9:39:39.03	LM	—	5	36.096	114.739	0.5	C	144	6.24	1.10	RWL	—		—		—		1.5	RWL	—		—	
1973 5	9:41:26.58	LM	—	8	36.095	114.735	0.2	B	82	5.04	0.70	RWL	—		—		—		2.0	RWL	—		—	
1973 5	10:23:26.42	SIZ	—	—	36.820	115.930	—		—	0.70	—	KKG	—		—		—		—		—		—	
1973 5	13:18:47.09	LM	—	5	36.097	114.739	0.5	C	144	6.11	1.20	RWL	—		—		—		1.5	RWL	—		—	
1973 5	13:50: 9.80	SIZ	—	—	36.820	115.930	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 5	16:52:17.04	LM	—	6	36.093	114.735	0.5	B	99	5.14	1.40	RWL	—		—		—		1.9	RWL	—		—	
1973 5	23:58: 8.35	LM	—	9	36.096	114.734	0.2	B	82	5.09	0.60	RWL	—		—		—		2.4	RWL	—		—	
1973 6	0: 9: 4.04	SIZ	—	—	36.820	115.870	—		—	6.50	—	KKG	—		—		—		—		—		—	
1973 6	5:28: 9.52		—	—	36.790	116.280	—		—	7.30	—	KKG	—		—		—		—		—		—	
1973 6	7: 5: 2.83		—	—	37.400	116.690	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 6	7:48:57.37	LM	—	6	35.904	114.654	1.3	C	251	5.77	1.20	RWL	—		—		—		1.7	RWL	—		—	
1973 6	9:57:25.91	LM	—	8	36.096	114.731	0.6	B	105	5.86	1.60	RWL	—		—		—		1.6	RWL	—		—	
1973 6	10:37:41.52	LM	—	3	36.096	114.744	—	C	223	5.00*	—	RWL	—		—		—		1.2	RWL	—		—	
1973 6	12:11:36.22	LM	—	4	36.129	114.643	—	C	290	6.00*	—	RWL	—		—		—		1.2	RWL	—		—	
1973 6	15:44:22.41	LM	—	9	36.096	114.736	0.2	A	83	5.32	0.60	RWL	—		—		—		2.4	RWL	—		—	
1973 6	20:11:44.92	LM	—	4	36.085	114.736	—	C	227	6.80	—	RWL	—		—		—		1.5	RWL	—		—	
1973 7	8:13: 4.50	LM	—	8	36.048	114.809	0.5	B	111	5.05	1.50	RWL	—		—		—		2.3	RWL	—		—	
1973 7	9:31:50.14	LM	—	8	36.098	114.733	0.3	B	104	5.11	0.80	RWL	—		—		—		2.0	RWL	—		—	
1973 7	15:30:15.55	SIZ	—	—	36.800	115.910	—		—	-0.50	—	KKG	—		—		—		—		—		—	
1973 8	1:20:20.49		—	—	37.620	117.750	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 8	2: 4:43.57		—	—	37.180	117.300	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1973 8	11:12:16.48	LM	—	3	36.092	114.890	—	C	281	5.00*	—	RWL	—		—		—		—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 MAR 8	23:11:54.20	LM	—	5	36.099	114.731	0.3	C	120	5.14	0.70	RWL	—		—		—		1.8	RWL	—		—	
1973 9	4:39: 8.98	SIZ	—	—	36.820	115.870	—		—	0.60	—	KKG	—		—		—		—		—		—	
1973 9	6:17: 3.23	LM	—	4	35.991	114.738	—	C	154	0.28	—	RWL	—		—		—		1.5	RWL	—		—	
1973 9	7:50:34.38	LM	—	5	36.091	114.734	0.1	C	178	6.50	0.30	RWL	—		—		—		1.4	RWL	—		—	
1973 9	10:34:30.80		—	—	37.420	117.010	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 9	14:35:49.41	LM	—	5	35.979	114.784	0.6	C	165	5.33	1.50	RWL	—		—		—		1.6	RWL	—		—	
1973 9	20:52:20.35	SIZ	—	—	36.810	115.890	—		—	-0.10	—	KKG	—		—		—		—		—		—	
1973 9	23:42:34.09		—	—	35.710	116.010	—		—	10.00	—	KKG	—		—		—		—		—		—	
1973 11	2: 6:53.99	LM	—	6	36.095	114.733	0.5	B	102	5.29	1.30	RWL	—		—		—		1.6	RWL	—		—	
1973 11	5:37:57.15	LM	—	9	36.096	114.735	0.2	A	83	5.26	0.50	RWL	—		—		—		2.8	RWL	—		—	
1973 11	5:39: 0.87	LM	—	4	36.096	114.732	—	C	123	5.45	—	RWL	—		—		—		1.7	RWL	—		—	
1973 11	6:13:58.99	LM	—	6	36.090	114.735	0.4	B	97	5.43	1.00	RWL	—		—		—		1.3	RWL	—		—	
1973 11	6:43:49.47	LM	—	4	36.090	114.736	—	C	188	6.86	—	RWL	—		—		—		1.1	RWL	—		—	
1973 11	6:43:50.64	LM	—	4	36.092	114.735	—	C	189	7.15	—	RWL	—		—		—		1.8	RWL	—		—	
1973 11	7:26:55.13		—	—	35.920	114.860	—		—	-0.60	—	KKG	—		—		—		2.8	RWL	—		—	
1973 11	7:28: 3.13	LM	—	5	36.094	114.633	0.2	C	112	6.89	0.30	RWL	—		—		—		1.6	RWL	—		—	
1973 11	9:41:26.83	LM	—	5	36.093	114.734	0.3	C	180	5.85	0.70	RWL	—		—		—		1.4	RWL	—		—	
1973 11	10:36:13.85	LM	—	4	36.126	114.710	—	C	218	0.37	—	RWL	—		—		—		1.5	RWL	—		—	
1973 11	11:17:44.02	LM	—	5	36.068	114.746	0.4	C	135	6.00*	0.80	RWL	—		—		—		1.5	RWL	—		—	
1973 12	4: 2:14.96	LM	—	5	36.095	114.733	0.3	C	182	6.62	0.70	RWL	—		—		—		1.4	RWL	—		—	
1973 12	6:38:29.46	LM	—	4	35.950	114.601	—	C	222	4.01	—	RWL	—		—		—		0.7	RWL	—		—	
1973 12	12: 7:57.56	LM	—	4	36.102	114.675	—	C	172	4.41	—	RWL	—		—		—		1.3	RWL	—		—	
1973 12	13:15:12.07	LM	—	9	36.091	114.735	0.4	B	81	4.37	1.60	RWL	—		—		—		1.9	RWL	—		—	
1973 12	13:57:53.03	LM	—	4	35.989	114.713	—	C	155	4.07	—	RWL	—		—		—		1.1	RWL	—		—	
1973 12	14:29: 3.26	LM	—	7	36.097	114.733	0.6	B	104	5.57	1.60	RWL	—		—		—		1.6	RWL	—		—	
1973 12	15: 8:31.55		—	—	35.750	117.300	—		—	10.00*	—	KKG	1	BRP	2.2	BRP	3.3	PAS	—		—		3.3	GDY
1973 13	2:26:48.75	SIZ	—	—	36.810	115.890	—		—	1.70	—	KKG	—		—		—		—		—		—	
1973 13	4: 8:46.94	SIZ	—	—	37.140	115.890	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 13	4:31:18.86	SIZ	—	—	36.820	115.870	—		—	4.70	—	KKG	—		—		—		—		—		—	
1973 13	5:25:51.89	LM	—	4	36.128	114.668	—	C	207	4.81	—	RWL	—		—		—		1.3	RWL	—		—	
1973 13	7: 4:12.40	LM	—	3	36.102	114.660	—	C	279	5.00*	—	RWL	—		—		—		0.9	RWL	—		—	
1973 13	7:43:40.53	LM	—	3	36.102	114.661	—	C	279	5.00*	—	RWL	—		—		—		0.6	RWL	—		—	
1973 13	11:17: 5.95	SIZ	—	—	36.810	115.900	—		—	7.60	—	KKG	—		—		—		—		—		—	
1973 13	21:43: 0.58	SIZ	—	—	36.810	115.910	—		—	2.20	—	KKG	—		—		—		—		—		—	
1973 13	22:31:33.50	SIZ	—	—	36.810	115.910	—		—	14.70	—	KKG	—		—		—		3.4	RYN	—		—	
1973 13	22:37: 3.92	SIZ	—	—	36.810	115.900	—		—	4.80	—	KKG	—		—		—		—		—		—	
1973 13	22:39: 7.51	SIZ	—	—	36.810	115.900	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 14	0:25: 7.50	SIZ	—	—	36.810	115.910	—		—	7.90	—	KKG	—		—		—		—		—		—	
1973 14	9:20:46.50	SIZ	—	—	36.820	115.880	—		—	3.30	—	KKG	—		—		—		—		—		—	
1973 14	18:51:14.55	LM	—	7	36.097	114.733	0.3	B	103	5.32	1.00	RWL	—		—		—		1.9	RWL	—		—	
1973 14	21:32: 8.24	SIZ	—	—	36.780	115.910	—		—	-0.70	—	KKG	—		—		—		—		—		—	
1973 15	0:29:17.02	SIZ	—	—	36.820	115.900	—		—	2.20	—	KKG	—		—		—		—		—		—	
1973 15	16:11:10.48	LM	—	3	36.036	114.702	—	C	154	5.00*	—	RWL	—		—		—		1.4	RWL	—		—	
1973 15	23: 6:51.88		—	—	35.820	115.340	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1973 16	7:40: 7.68	LM	—	4	36.086	114.734	—	C	228	6.61	—	RWL	—		—		—		1.2	RWL	—		—	
1973 17	2:22:43.08	SIZ	—	—	36.810	115.910	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 17	17:18:39.57	LM	—	3	36.095	114.739	—	C	214	5.00*	—	RWL	—		—		—		1.4	RWL	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 MAR 18	6:44:42.91		—	—	37.600	114.580	—		—	0.60	—	KKG	—		—		—		—		—		—	
1973 18	19:40:25.85	LM	—	3	36.095	114.735	—	C	183	5.00*	—	RWL	—		—		—		1.4	RWL	—		—	
1973 19	1:50: 3.65	SIZ	—	—	36.810	115.910	—		—	1.50	—	KKG	—		—		—		—		—		—	
1973 19	1:53:38.00	SIZ	—	—	36.810	115.910	—		—	2.60	—	KKG	—		—		—		—		—		—	
1973 19	3: 6:54.28	SIZ	—	—	36.810	115.900	—		—	1.60	—	KKG	—		—		—		—		—		—	
1973 19	3:12:49.38	SIZ	—	—	36.810	115.890	—		—	1.80	—	KKG	—		—		—		—		—		—	
1973 19	13:34:17.52	SIZ	—	—	36.810	115.880	—		—	1.80	—	KKG	—		—		—		—		—		—	
1973 19	22:40: 7.64	SIZ	—	—	36.810	115.900	—		—	1.20	—	KKG	—		—		—		—		—		—	
1973 20	13:22:17.93	LM	—	4	36.113	114.684	—	C	178	6.06	—	RWL	—		—		—		1.4	RWL	—		—	
1973 20	13:34:59.44	SIZ	—	—	36.820	115.900	—		—	0.70	—	KKG	—		—		—		—		—		—	
1973 20	21:34: 7.35	LM	—	6	36.010	114.752	0.3	C	141	1.58	3.60	RWL	—		—		—		1.9	RWL	—		—	
1973 21	21:44: 3.23		—	—	36.790	116.290	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 22	3:49:10.77	LM	—	4	36.092	114.739	—	C	131	0.11	—	RWL	—		—		—		1.1	RWL	—		—	
1973 22	8:58: 2.55	SIZ	—	—	36.810	115.890	—		—	1.80	—	KKG	—		—		—		—		—		—	
1973 22	10:50:10.20		0.21	4	37.365	117.715	—		—	—	—	RYN	—		—		—		2.2	RYN	—		—	
1973 22	22:59:50.75	LM	—	5	36.097	114.737	0.2	C	142	6.08	0.40	RWL	—		—		—		1.5	RWL	—		—	
1973 23	8:14:36.72	SIZ	—	—	36.800	115.940	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 23	18: 9:49.70	LM	—	6	36.008	114.720	0.3	B	116	4.19	0.70	RWL	—		—		—		2.1	RWL	—		—	
1973 23	19:44:35.50	LM	—	3	35.973	114.702	—	C	210	5.00*	—	RWL	—		—		—		1.5	RWL	—		—	
1973 24	9:21: 6.24	LM	—	3	36.070	114.666	—	C	219	5.00*	—	RWL	—		—		—		0.9	RWL	—		—	
1973 24	18:18:37.86		—	—	36.790	117.620	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 25	3:30:24.23		—	—	36.770	115.800	—		—	14.30	—	KKG	—		—		—		—		—		—	
1973 25	5:58:59.13		—	—	36.770	115.790	—		—	12.10	—	KKG	—		—		—		—		—		—	
1973 25	6:56:12.53	LM	—	4	36.091	114.638	—	C	157	5.09	—	RWL	—		—		—		1.4	RWL	—		—	
1973 26	1: 9:27.44	LM	—	4	36.095	114.734	—	C	124	3.66	—	RWL	—		—		—		2.3	RWL	—		—	
1973 26	9:49: 3.00		—	—	37.010	117.520	—		—	19.20	—	KKG	—		—		—		—		—		—	
1973 26	13: 9:17.70	LM	—	7	36.098	114.733	0.4	B	104	5.35	1.10	RWL	—		—		—		1.5	RWL	—		—	
1973 26	20:52:45.19	LM	—	7	36.095	114.736	0.3	B	99	5.42	0.80	RWL	—		—		—		1.9	RWL	—		—	
1973 27	0:59:19.20		0.44	6	37.431	115.736	—		—	—	—	RYN	—		—		—		2.8	RYN	—		—	
1973 27	1: 0:18.11		—	—	37.500	115.680	—		—	-1.00	—	KKG	—		—		—		—		—		—	
1973 27	1: 1:59.78	LM	—	3	36.070	114.665	—	C	218	5.00*	—	RWL	—		—		—		1.3	RWL	—		—	
1973 27	2:21:44.10	SIZ	—	—	36.810	115.950	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 27	3:32:50.46		—	—	38.220	115.590	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 27	5: 3:21.68	LM	—	9	36.098	114.733	0.2	B	81	5.06	0.70	RWL	—		—		—		2.4	RWL	—		—	
1973 27	7:59: 8.13	SIZ	—	—	36.820	115.840	—		—	4.10	—	KKG	—		—		—		—		—		—	
1973 27	14:58: 6.71	LM	—	9	36.094	114.735	0.2	B	82	5.11	0.60	RWL	—		—		—		2.2	RWL	—		—	
1973 27	20:22:54.50	LM	—	—	36.290	114.880	—		—	11.20	—	KKG	—		—		—		—		—		—	
1973 28	8:54:58.95	LM	—	4	35.993	114.571	—	C	176	8.58	—	RWL	—		—		—		1.5	RWL	—		—	
1973 28	10:41:59.71	SIZ	—	—	36.990	115.900	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1973 28	11:51:41.82	SIZ	—	—	36.810	115.920	—		—	1.90	—	KKG	—		—		—		—		—		—	
1973 28	16: 7:17.89	SIZ	—	—	36.810	115.890	—		—	0.60	—	KKG	—		—		—		—		—		—	
1973 28	16:37:52.44	SIZ	—	—	36.820	115.890	—		—	1.10	—	KKG	—		—		—		—		—		—	
1973 29	1:59:10.05	SIZ	—	—	36.820	115.880	—		—	2.00	—	KKG	—		—		—		—		—		—	
1973 29	6: 7: 5.11	SIZ	—	—	36.770	116.070	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 30	3:21:14.61	SIZ	—	—	36.810	115.920	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 30	14:16:33.00		0.25	6	38.464	117.879	—		—	—	—	RYN	—		—		—		3.1	RYN	—		—	
1973 31	23: 7: 2.62		—	—	37.760	116.020	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 APR 1	1:32:10.82	SIZ	—	—	36.770	116.070	—		—	0.00*	—	KKG	—		—		—		—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 APR 1	14:56:53.26	SIZ	—	—	36.810	115.940	—		—	1.30	—	KKG	—		—		—		—		—		—	
1973 2	15: 5:54.99		—	—	37.170	117.590	—		—	5.90	—	KKG	—		—		—		2.8	RYN	—		—	
1973 2	21:17: 2.25	SIZ	—	—	36.800	115.950	—		—	3.10	—	KKG	—		—		—		—		—		—	
1973 3	10:18:47.14	SIZ	—	—	36.810	115.890	—		—	0.40	—	KKG	—		—		—		—		—		—	
1973 4	19:42:34.93		—	—	36.410	115.780	—		—	20.60	—	KKG	—		—		—		—		—		—	
1973 6	6:41:21.12		—	—	37.470	115.650	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1973 6	18:13: 8.24	LM	—	6	36.118	114.712	0.1	B	146	6.77	0.30	RWL	—		—		—		1.8	RWL	—		—	
1973 7	2:59:29.07	SIZ	—	—	36.860	115.860	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1973 7	5:50:27.85		—	—	36.530	117.860	—		—	10.20	—	KKG	—		—		—		—		—		—	
1973 7	21:24:24.94		—	—	36.670	116.250	—		—	15.70	—	KKG	—		—		—		—		—		—	
1973 8	5: 9:47.45		—	—	36.680	116.250	—		—	14.10	—	KKG	—		—		—		—		—		—	
1973 8	5:21:59.95		—	—	36.790	116.290	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 8	10:48: 3.37	LM	—	5	36.051	114.819	0.9	C	199	5.02	2.10	RWL	—		—		—		1.5	RWL	—		—	
1973 8	11:56:13.25	LM	—	4	36.014	114.711	—	C	174	5.00*	—	RWL	—		—		—		1.4	RWL	—		—	
1973 9	4: 7:31.43		—	—	36.670	116.250	—		—	14.40	—	KKG	—		—		—		—		—		—	
1973 9	10:14: 3.99		—	—	37.290	114.830	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 9	10:19:20.93	LM	—	5	36.000	114.706	0.4	C	88	4.22	1.20	RWL	—		—		—		1.2	RWL	—		—	
1973 9	10:46:59.16	LM	—	5	36.097	114.735	0.2	C	139	6.18	0.40	RWL	—		—		—		1.3	RWL	—		—	
1973 9	14:45:51.31	LM	—	5	36.013	114.752	0.3	C	144	2.27	1.80	RWL	—		—		—		1.1	RWL	—		—	
1973 10	4:27:35.47	LM	—	5	36.121	114.712	0.2	C	161	5.98	0.30	RWL	—		—		—		1.4	RWL	—		—	
1973 10	4:28:35.53		—	—	36.820	116.300	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 10	6:55: 6.88		—	—	36.820	116.310	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 10	9:25:20.79		—	—	37.340	114.680	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1973 10	16:18:40.94	LM	—	6	36.001	114.707	0.3	A	90	3.35	0.90	RWL	—		—		—		1.7	RWL	—		—	
1973 10	16:19:54.25	LM	—	8	36.001	114.707	0.2	A	74	3.23	0.50	RWL	—		—		—		2.1	RWL	—		—	
1973 10	17:53:38.07		—	—	36.750	116.230	—		—	14.00	—	KKG	—		—		—		—		—		—	
1973 10	18:37: 2.82		—	—	36.830	116.280	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 10	18:37:13.21		—	—	36.830	116.280	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 10	20: 1:10.41	LM	—	8	36.084	114.754	0.4	A	89	10.07	0.90	RWL	—		—		—		1.9	RWL	—		—	
1973 10	21:54:58.74	LM	—	6	36.031	114.734	1.2	C	170	8.78	2.20	RWL	—		—		—		1.3	RWL	—		—	
1973 10	23:24:14.66		—	—	35.900	115.240	—		—	19.70	—	KKG	—		—		—		—		—		—	
1973 11	3:50:26.99		—	—	37.460	114.950	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1973 11	5:56: 5.16		—	—	36.670	116.300	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 11	12:36:33.55		—	—	37.130	115.680	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 11	15:43:56.21	LM	—	5	36.063	114.819	0.4	D	126	1.11	8.70	RWL	—		—		—		1.7	RWL	—		—	
1973 11	22:34:37.58	SIZ	—	—	36.810	115.910	—		—	1.80	—	KKG	—		—		—		—		—		—	
1973 12	0:33:28.13	SIZ	—	—	36.810	115.930	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 12	8:55:11.28	LM	—	5	36.090	114.753	1.0	C	143	10.87	1.70	RWL	—		—		—		1.2	RWL	—		—	
1973 12	10:20:34.33		—	—	36.740	116.470	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1973 12	12:24: 6.60		—	—	36.740	116.490	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1973 12	13:33:33.48	SIZ	—	—	36.810	115.890	—		—	0.30	—	KKG	—		—		—		—		—		—	
1973 12	14:19:34.40	LM	—	7	36.092	114.678	0.2	B	116	6.00*	0.30	RWL	—		—		—		1.6	RWL	—		—	
1973 13	3:31: 8.20		0.32	5	38.169	117.095	—		—	—	—	RYN	—		—		—		2.7	RYN	—		—	
1973 13	4:36:59.16		—	—	35.990	116.130	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1973 13	8:45:30.71		—	—	35.630	116.560	—		—	0.00*	—	KKG	—		—		3.0	PAS	—		—		3.0	GDY
1973 13	10:50:12.42		—	—	36.820	115.420	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1973 13	17:59:25.40		—	—	36.010	116.090	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1973 13	18:11: 5.86	LM	—	4	35.983	114.782	—	C	157	5.05	—	RWL	—		—		—		1.5	RWL	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE	ORIGIN TIME	HYPOCENTER											INTENSITY		MAGNITUDE									
(UTC)	HR MN SEC	FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	I	REF	MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 APR 13	19:33: 6.88		—	—	36.820	116.180	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 13	19:43:55.96		—	—	36.800	116.280	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 13	21:57:17.12		—	—	36.050	115.410	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 14	1:21: 9.15	LM	—	4	36.098	114.739	—	C	213	6.79	—	RWL	—		—		—		1.5	RWL	—		—	
1973 14	12:31:57.96	LM	—	6	35.975	114.801	0.9	C	196	5.58	1.70	RWL	—		—		—		1.7	RWL	—		—	
1973 14	13:26:29.53	LM	—	3	36.080	114.674	—	C	253	5.00*	—	RWL	—		—		—		1.1	RWL	—		—	
1973 15	1: 7:50.86		—	—	36.620	116.080	—		—	16.60	—	KKG	—		—		—		—		—		—	
1973 15	6:29:12.38	LM	—	8	36.060	114.823	0.6	C	133	1.60	6.40	RWL	—		—		—		—		—		—	
1973 15	7:22:31.99	LM	—	5	35.927	114.642	1.5	C	232	3.39	1.20	RWL	—		—		—		1.6	RWL	—		—	
1973 15	14:19:49.01		—	—	38.200	115.920	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 15	21: 6:45.71		—	—	36.740	115.780	—		—	1.30	—	KKG	—		—		—		—		—		—	
1973 15	21: 7:24.00		—	—	36.730	115.760	—		—	9.90	—	KKG	—		—		—		—		—		—	
1973 15	23:10:14.05	SIZ	—	—	36.810	115.890	—		—	-0.60	—	KKG	—		—		—		—		—		—	
1973 16	1:25:21.71	LM	—	3	35.940	114.835	—	C	275	5.00*	—	RWL	—		—		—		1.4	RWL	—		—	
1973 16	17:26: 9.45	LM	—	6	36.010	114.750	0.3	B	140	3.93	1.00	RWL	—		—		—		1.5	RWL	—		—	
1973 16	17:28:32.18	LM	—	5	36.013	114.754	0.2	C	144	2.64	1.00	RWL	—		—		—		1.4	RWL	—		—	
1973 16	17:40:58.46	LM	—	5	36.011	114.752	0.2	C	142	2.47	1.10	RWL	—		—		—		1.0	RWL	—		—	
1973 16	21:52:37.54	SIZ	—	—	36.810	115.930	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 17	6:55:30.80	LM	—	5	36.010	114.750	0.1	C	140	1.44	2.00	RWL	—		—		—		1.2	RWL	—		—	
1973 17	7:42:46.24	SIZ	—	—	36.790	116.000	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 17	7:50:17.93	SIZ	—	—	36.790	115.970	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1973 17	7:53:59.67	SIZ	—	—	36.790	115.970	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 17	8: 8:38.39	SIZ	—	—	36.790	115.980	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 17	9: 1: 6.19	SIZ	—	—	36.790	115.980	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 17	12:30:30.29	SIZ	—	—	37.110	116.170	—		—	1.70	—	KKG	—		—		—		—		—		—	
1973 18	5:31:57.73	LM	—	9	36.085	114.603	0.1	B	132	4.22	0.20	RWL	—		—		—		2.8	RWL	—		—	
1973 18	12:45: 0.01	LM	—	6	36.040	114.792	0.8	B	151	9.54	1.70	RWL	—		—		—		1.3	RWL	—		—	
1973 18	18:26:45.27	LM	—	8	36.011	114.753	0.2	B	91	4.06	0.70	RWL	—		—		—		1.7	RWL	—		—	
1973 19	3:46:35.41	LM	—	4	36.040	114.797	—	C	227	6.94	—	RWL	—		—		—		1.3	RWL	—		—	
1973 19	10:24:36.39		—	—	36.920	116.500	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1973 20	0: 0:34.12	LM	—	6	36.092	114.679	0.1	B	122	5.86	0.10	RWL	—		—		—		1.6	RWL	—		—	
1973 20	0:49:33.97		—	—	36.534	117.985	—		—	8.00*	—	GDY	—		1.8	BRP	3.0	PAS	—		—		3.3	BRK
1973 20	1:46:50.88	SIZ	—	—	36.810	115.910	—		—	11.00	—	KKG	—		—		—		—		—		—	
1973 20	3:13: 7.79	LM	—	7	36.043	114.800	0.4	C	96	1.33	5.60	RWL	—		—		—		1.8	RWL	—		—	
1973 21	5:15:43.35	SIZ	—	—	36.770	115.840	—		—	8.30	—	KKG	—		—		—		—		—		—	
1973 21	5:54:40.14	SIZ	—	—	36.770	115.870	—		—	12.20	—	KKG	—		—		—		—		—		—	
1973 21	23:41:19.78	LM	—	7	36.074	114.633	0.2	B	106	5.23	0.40	RWL	—		—		—		1.5	RWL	—		—	
1973 22	0:11: 9.35	LM	—	5	36.092	114.678	0.2	C	157	6.18	0.30	RWL	—		—		—		1.0	RWL	—		—	
1973 22	0:19:12.98	LM	—	5	36.011	114.752	0.1	C	142	2.74	0.70	RWL	—		—		—		1.3	RWL	—		—	
1973 22	13: 5: 0.28	LM	—	7	36.099	114.730	0.4	B	109	5.61	1.00	RWL	—		—		—		1.6	RWL	—		—	
1973 22	14:37: 5.13		—	—	36.850	116.280	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 22	17:48:31.24	SIZ	—	—	36.810	115.890	—		—	1.00	—	KKG	—		—		—		—		—		—	
1973 22	21:13: 9.15	LM	—	5	36.092	114.641	0.2	C	106	5.00*	0.50	RWL	—		—		—		1.1	RWL	—		—	
1973 23	6:58:34.91		—	—	37.430	115.200	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 23	8:35:38.93		—	—	37.470	115.220	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 23	17:47:13.11	LM	—	6	35.947	114.828	0.3	C	255	1.68	1.20	RWL	—		—		—		1.8	RWL	—		—	
1973 24	8:43:58.08	LM	—	8	36.091	114.733	0.4	B	79	5.07	1.10	RWL	—		—		—		1.9	RWL	—		—	
1973 24	12:15:59.67	LM	—	7	36.094	114.733	0.3	B	102	5.95	0.70	RWL	—		—		—		1.5	RWL	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 APR 25	0:11: 3.70	LM	—	6	36.001	114.719	0.5	C	106	0.31	99.70	RWL	—		—		—		2.0	RWL	—		—	
1973 25	0:12:21.15	LM	—	4	36.003	114.730	—	C	197	0.49	—	RWL	—		—		—		1.6	RWL	—		—	
1973 25	0:59:41.18	LM	—	7	36.092	114.679	0.1	B	116	5.98	0.30	RWL	—		—		—		1.5	RWL	—		—	
1973 25	16:26:12.84	LM	—	5	36.001	114.707	0.4	C	91	4.16	1.10	RWL	—		—		—		1.2	RWL	—		—	
1973 25	20:52:15.69	LM	—	4	36.005	114.734	—	C	206	0.46	—	RWL	—		—		—		1.5	RWL	—		—	
1973 26	9:29:49.51		—	—	36.040	116.630	—		—	5.60	—	KKG	—		—		—		—		—		—	
1973 26	15:15: 2.00	SIZ	—	—	36.985	116.008	—		—	8.00*	—	GDY	5	BRP	4.0	BRP	—		—		4.1	PDX	4.1	GDY
1973 26	17:47:25.21	LM	—	4	35.978	114.781	—	C	162	4.49	—	RWL	—		—		—		1.3	RWL	—		—	
1973 27	2:27:27.77	LM	—	4	36.018	114.805	—	C	173	12.84	—	RWL	—		—		—		1.4	RWL	—		—	
1973 27	2:31:26.36		—	—	37.450	114.900	—		—	25.00*	—	KKG	—		—		—		—		—		—	
1973 27	6:56:43.46		—	—	38.270	115.920	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1973 27	7:14:21.48		—	—	37.810	115.110	—		—	24.30	—	KKG	—		—		—		—		—		—	
1973 27	20:43: 8.17		—	—	37.580	115.260	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 28	1: 0: 1.17	LM	—	5	35.982	114.781	0.8	C	156	4.55	2.30	RWL	—		—		—		1.7	RWL	—		—	
1973 28	6: 0:51.17		—	—	37.440	115.200	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 29	11:12:42.91	LM	—	4	35.978	114.785	—	C	169	5.00*	—	RWL	—		—		—		1.0	RWL	—		—	
1973 29	13:20:38.35	LM	—	5	36.014	114.840	0.7	C	259	7.61	0.90	RWL	—		—		—		1.7	RWL	—		—	
1973 30	16:46:21.12	LM	—	7	36.011	114.759	0.3	B	97	7.60	0.80	RWL	—		—		—		1.8	RWL	—		—	
1973 30	18:46:25.66	LM	—	4	36.006	114.757	—	C	140	5.02	—	RWL	—		—		—		1.3	RWL	—		—	
1973 30	20:35: 5.44	LM	—	4	36.065	114.710	—	C	195	5.93	—	RWL	—		—		—		1.4	RWL	—		—	
1973 30	20:42:54.25	LM	—	3	36.051	114.702	—	C	174	5.00*	—	RWL	—		—		—		1.2	RWL	—		—	
1973 MAY 1	0:15: 7.17	LM	—	9	36.066	114.708	0.2	A	55	6.51	0.40	RWL	—		—		—		2.1	RWL	—		—	
1973 1	0:20:33.68	LM	—	6	36.093	114.678	0.2	B	115	6.15	0.50	RWL	—		—		—		1.4	RWL	—		—	
1973 1	0:36:46.79	LM	—	8	35.948	114.822	1.8	C	253	4.41	2.20	RWL	—		—		—		2.0	RWL	—		—	
1973 1	0:49:58.81	LM	—	5	36.064	114.707	0.3	C	194	6.35	0.50	RWL	—		—		—		1.3	RWL	—		—	
1973 1	2: 0: 0.86	LM	—	4	36.077	114.670	—	C	243	4.26	—	RWL	—		—		—		1.1	RWL	—		—	
1973 1	11:52:23.28		—	—	36.540	116.570	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1973 1	11:57:25.49		—	—	36.470	116.700	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1973 1	12:17: 1.08		—	—	36.470	116.660	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1973 1	13: 0:35.46	LM	—	5	36.106	114.688	0.1	C	167	5.96	0.20	RWL	—		—		—		1.5	RWL	—		—	
1973 1	21:18:51.42		—	—	36.320	114.940	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 2	1:58:36.60	LM	—	6	36.099	114.735	0.3	B	140	5.38	0.80	RWL	—		—		—		1.3	RWL	—		—	
1973 2	8:25:17.56	LM	—	4	35.977	114.785	—	C	170	5.00*	—	RWL	—		—		—		1.3	RWL	—		—	
1973 2	17: 3:50.59		—	—	36.560	115.680	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1973 2	18:58:14.84	LM	—	7	36.012	114.760	0.5	B	97	8.35	1.30	RWL	—		—		—		1.9	RWL	—		—	
1973 2	22:14:23.73	LM	—	8	36.067	114.708	0.2	B	102	6.72	0.40	RWL	—		—		—		1.7	RWL	—		—	
1973 2	22:14:51.13	LM	—	5	36.066	114.708	0.4	C	101	6.27	0.70	RWL	—		—		—		1.4	RWL	—		—	
1973 3	0:52:49.35	SIZ	—	—	36.770	115.860	—		—	-0.30	—	KKG	—		—		—		—		—		—	
1973 3	3:31:29.55	SIZ	—	—	37.440	116.590	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 3	3:52:50.18	LM	—	6	36.107	114.688	0.1	B	126	6.03	0.20	RWL	—		—		—		1.6	RWL	—		—	
1973 3	13:22: 1.49		—	—	36.690	116.390	—		—	10.10	—	KKG	—		—		—		—		—		—	
1973 3	15:27:29.07	LM	—	4	35.975	114.807	—	C	205	5.63	—	RWL	—		—		—		1.1	RWL	—		—	
1973 3	16:52: 5.34	LM	—	6	36.065	114.708	0.2	B	102	6.40	0.40	RWL	—		—		—		1.7	RWL	—		—	
1973 3	22:49:38.21		—	—	35.980	115.810	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 3	23:54:43.43	LM	—	6	35.976	114.812	1.7	C	211	6.19	2.90	RWL	—		—		—		1.7	RWL	—		—	
1973 4	1:22:56.26	LM	—	7	36.084	114.766	0.4	C	96	1.28	10.20	RWL	—		—		—		1.6	RWL	—		—	
1973 4	2: 1:11.03	LM	—	9	36.086	114.767	0.3	B	98	3.35	1.80	RWL	—		—		—		2.4	RWL	—		—	
1973 4	2: 2:42.36	LM	—	6	35.911	114.787	1.7	D	269	0.95	8.50	RWL	—		—		—		1.7	RWL	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 MAY 4	7:18: 2.34		—	—	36.010	117.830	—	A	—	8.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1973 4	8:12:22.84		—	—	35.998	117.853	—	A	—	8.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1973 4	9: 4: 1.11	LM	—	4	36.130	114.608	—	C	148	0.22	—	RWL	—		—		—		1.0	RWL	—		—	
1973 5	3:25: 1.12	LM	—	7	36.013	114.752	0.3	B	95	3.53	1.00	RWL	—		—		—		1.9	RWL	—		—	
1973 5	13:17:51.45	LM	—	5	35.981	114.801	0.7	C	186	3.84	1.90	RWL	—		—		—		1.0	RWL	—		—	
1973 5	14: 5:47.32	SIZ	—	—	36.780	115.820	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 5	14: 8:54.91	SIZ	—	—	36.770	115.830	—		—	5.00	—	KKG	—		—		—		—		—		—	
1973 5	17:35: 7.89	SIZ	—	—	36.850	115.970	—		—	25.00	—	KKG	—		—		—		—		—		—	
1973 5	21:13:57.87	LM	—	6	36.103	114.730	0.3	B	134	5.93	0.60	RWL	—		—		—		1.8	RWL	—		—	
1973 6	3:28:30.28	SIZ	—	—	36.770	115.830	—		—	-0.70	—	KKG	—		—		—		—		—		—	
1973 6	6:17: 2.50	LM	—	7	36.098	114.725	0.3	B	114	5.23	0.80	RWL	—		—		—		1.5	RWL	—		—	
1973 6	14:23:41.80	LM	—	3	36.077	114.587	—	C	227	5.00*	—	RWL	—		—		—		1.1	RWL	—		—	
1973 6	16:46:58.67		—	—	36.840	116.760	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 6	17:40:56.23	LM	—	7	36.087	114.770	0.5	B	100	3.10	3.20	RWL	—		—		—		1.8	RWL	—		—	
1973 6	21:13:19.32	LM	—	6	36.108	114.652	0.2	B	99	5.42	0.50	RWL	—		—		—		1.5	RWL	—		—	
1973 6	23: 0:55.37	LM	—	—	36.080	115.050	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 7	2:42:13.70		—	—	36.650	117.020	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 7	16:53:56.55	LM	—	4	36.010	114.750	—	C	140	2.26	—	RWL	—		—		—		1.3	RWL	—		—	
1973 7	17:27:35.77	LM	—	6	36.011	114.751	0.4	B	141	4.10	1.20	RWL	—		—		—		1.5	RWL	—		—	
1973 7	18:54:51.47	LM	—	7	36.013	114.752	0.3	B	95	3.47	1.00	RWL	—		—		—		1.8	RWL	—		—	
1973 7	19: 0:21.53	LM	—	7	36.088	114.769	0.5	B	173	4.05	1.80	RWL	—		—		—		1.9	RWL	—		—	
1973 7	22:54: 6.25		—	—	35.850	115.230	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 8	11:15:53.11	LM	—	3	36.082	114.707	—	C	298	5.00*	—	RWL	—		—		—		1.4	RWL	—		—	
1973 8	11:28:27.85	LM	—	8	36.088	114.766	0.4	B	99	4.29	1.80	RWL	—		—		—		1.7	RWL	—		—	
1973 8	12:45:59.65	SIZ	—	—	36.820	115.870	—		—	7.00	—	KKG	—		—		—		—		—		—	
1973 8	14:10:29.66	LM	—	6	36.012	114.752	0.3	B	143	3.15	1.10	RWL	—		—		—		1.6	RWL	—		—	
1973 8	16:33:59.13	LM	—	5	35.981	114.803	0.8	C	190	4.25	2.10	RWL	—		—		—		1.7	RWL	—		—	
1973 8	17:30:59.31	LM	—	8	36.085	114.767	0.4	B	96	4.25	1.60	RWL	—		—		—		2.1	RWL	—		—	
1973 8	22:17:47.11	LM	—	4	36.110	114.693	—	C	167	6.67	—	RWL	—		—		—		1.3	RWL	—		—	
1973 9	4: 7:12.54	LM	—	5	36.100	114.724	0.4	C	187	5.27	0.90	RWL	—		—		—		1.7	RWL	—		—	
1973 9	5:44:46.13		—	—	37.800	116.190	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 9	9:43:17.84	SIZ	—	—	36.810	115.890	—		—	1.30	—	KKG	—		—		—		—		—		—	
1973 9	14: 1:38.38	SIZ	—	—	36.750	115.860	—		—	12.40	—	KKG	—		—		—		—		—		—	
1973 9	21: 0:27.43	LM	—	5	35.996	114.709	0.1	C	89	5.60	0.20	RWL	—		—		—		1.4	RWL	—		—	
1973 9	21:25:22.33	LM	—	5	36.108	114.688	0.1	C	169	6.00*	0.30	RWL	—		—		—		1.6	RWL	—		—	
1973 10	0:35:11.99	LM	—	3	35.977	114.788	—	C	174	5.00*	—	RWL	—		—		—		1.3	RWL	—		—	
1973 10	5:32:23.16		—	—	35.940	117.230	—		—	10.00*	—	KKG	1	BRP	—		3.1	PAS	—		—		3.1	GDY
1973 10	9:29:31.21	SIZ	—	—	36.770	115.830	—		—	7.90	—	KKG	—		—		—		—		—		—	
1973 10	17: 1:50.26	LM	—	5	36.012	114.753	0.2	C	143	1.56	2.80	RWL	—		—		—		1.5	RWL	—		—	
1973 10	21:34:19.54		—	—	36.800	116.310	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1973 10	22:26:21.82	LM	—	5	35.981	114.800	0.6	C	186	3.86	1.50	RWL	—		—		—		1.4	RWL	—		—	
1973 10	23:34: 1.12	LM	—	4	36.112	114.693	—	C	169	7.04	—	RWL	—		—		—		1.2	RWL	—		—	
1973 11	2:48:38.69	LM	—	3	35.984	114.702	—	C	198	5.00*	—	RWL	—		—		—		1.0	RWL	—		—	
1973 11	5:35:11.89	LM	—	4	36.124	114.733	—	C	201	7.17	—	RWL	—		—		—		1.6	RWL	—		—	
1973 11	21:38:27.97	LM	—	6	36.008	114.731	0.4	B	129	1.91	2.30	RWL	—		—		—		1.7	RWL	—		—	
1973 11	22: 8:50.54		—	—	35.970	115.200	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 12	2:33:46.15	LM	—	5	36.110	114.688	0.2	C	171	6.41	0.40	RWL	—		—		—		1.5	RWL	—		—	
1973 12	3:36:12.03		—	—	36.440	117.720	—		—	10.00*	—	KKG	—		—		—		—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 MAY 12	3:49: 1.56		—	—	36.450	117.740	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 12	5:53: 4.47	LM	—	7	36.109	114.688	0.2	B	170	6.31	0.30	RWL	—		—		—		1.9	RWL	—		—	
1973 12	6: 5: 7.08	LM	—	5	36.109	114.688	—	C	169	6.35	0.10	RWL	—		—		—		1.4	RWL	—		—	
1973 14	9:34:36.35		—	—	38.060	114.800	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1973 15	15:21: 1.50		—	—	37.870	114.770	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 16	9: 8:42.08		—	—	37.370	115.920	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 17	14:36:25.87	SIZ	—	—	36.810	115.890	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 18	0:29:31.14		—	—	38.790	115.740	—		—	11.90	—	KKG	—		—		—		—		—		—	
1973 18	19:58:21.66	SIZ	—	—	36.800	115.920	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 19	1: 6: 9.43	SIZ	—	—	36.810	115.900	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 19	10:14:39.11	SIZ	—	—	36.820	115.970	—		—	7.80	—	KKG	—		—		—		—		—		—	
1973 19	12:57:58.26	SIZ	—	—	36.810	115.910	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 20	7:52:21.15	SIZ	—	—	36.820	115.890	—		—	1.50	—	KKG	—		—		—		—		—		—	
1973 20	15: 9:42.38	SIZ	—	—	36.820	115.880	—		—	7.10	—	KKG	—		—		—		—		—		—	
1973 21	16:49:42.71		—	—	35.751	117.115	—	B	—	8.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1973 22	3:25:20.49		—	—	36.780	115.770	—		—	18.30	—	KKG	—		—		—		—		—		—	
1973 22	4:29:16.09		—	—	36.780	115.730	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 22	12: 5:30.27		—	—	36.780	115.720	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 22	12:11: 4.99		—	—	36.780	115.730	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 23	2:36:16.92		—	—	36.780	115.730	—		—	5.50	—	KKG	—		—		—		—		—		—	
1973 23	19: 3:23.91	LM	—	4	36.108	114.686	—	C	171	5.43	—	RWL	—		—		—		0.9	RWL	—		—	
1973 24	0:25:33.78	LM	—	6	36.008	114.734	0.7	C	130	0.65	—	RWL	—		—		—		1.7	RWL	—		—	
1973 24	5:41:41.47	LM	—	8	36.110	114.688	0.1	B	93	5.92	0.20	RWL	—		—		—		—		—		—	
1973 24	9:21:11.42	LM	—	5	36.109	114.686	0.1	C	172	5.56	0.10	RWL	—		—		—		1.4	RWL	—		—	
1973 24	9:45:26.09	LM	—	5	36.108	114.687	0.1	C	170	5.62	0.20	RWL	—		—		—		1.5	RWL	—		—	
1973 24	13:30: 1.58	SIZ	—	—	37.145	116.088	—		—	8.00*	—	GDY	6	BRP	5.0	BRP	3.9	PDX	—		4.8	PDX	4.8	GDY
1973 24	21: 9:36.06	LM	—	6	36.006	114.733	0.7	C	127	0.69	—	RWL	—		—		—		2.0	RWL	—		—	
1973 25	8:30:51.54	LM	—	4	36.138	114.612	—	C	156	4.28	—	RWL	—		—		—		1.0	RWL	—		—	
1973 25	10:36: 1.46	LM	—	5	35.995	114.729	0.4	C	107	2.85	2.20	RWL	—		—		—		1.5	RWL	—		—	
1973 25	12:14:34.87	LM	—	6	35.970	114.801	1.3	C	205	8.66	2.10	RWL	—		—		—		1.7	RWL	—		—	
1973 25	19:45:41.94	LM	—	4	35.978	114.787	—	C	171	5.00*	—	RWL	—		—		—		1.4	RWL	—		—	
1973 25	19:52:35.50	LM	—	6	36.110	114.686	0.1	B	122	5.84	0.20	RWL	—		—		—		1.7	RWL	—		—	
1973 26	0: 4:49.02		—	—	38.990	117.560	—		—	-0.30	—	KKG	—		—		—		—		—		—	
1973 26	22:19:31.48	SIZ	—	—	36.820	115.860	—		—	0.50	—	KKG	—		—		—		—		—		—	
1973 26	22:40:17.62	LM	—	7	36.067	114.707	0.2	B	101	7.72	0.80	RWL	—		—		—		1.7	RWL	—		—	
1973 27	2:39:26.92		—	—	37.300	115.050	—		—	18.00	—	KKG	—		—		—		3.7	RYN	—		3.3	KKG
1973 27	10:12:40.49		—	—	37.340	115.080	—		—	21.90	—	KKG	—		—		—		—		—		—	
1973 29	23:13:29.06		—	—	36.310	117.900	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1973 31	9:51:35.66		—	—	36.640	116.430	—		—	19.70	—	KKG	—		—		—		—		—		—	
1973 31	9:52:41.56		—	—	36.630	116.440	—		—	18.80	—	KKG	—		—		—		—		—		—	
1973 JUN 5	6:35: 3.08		—	—	37.040	115.840	—		—	20.00*	—	KKG	—		—		—		—		—		—	
1973 5	20:57:35.04	SIZ	—	—	36.800	115.880	—		—	15.00*	—	KKG	—		—		—		—		—		—	
1973 6	14:19:29.92	SIZ	—	—	37.270	116.360	—		—	2.60	—	KKG	—		—		—		—		—		—	
1973 6	21:12:41.85	SIZ	—	—	37.250	116.350	—		—	4.00	—	KKG	—		—		—		—		—		—	
1973 6	22: 8:16.43		—	—	36.000	115.500	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 6	22:38: 9.49	LM	—	8	36.064	114.767	0.4	A	79	9.46	1.10	RWL	—		—		—		1.8	RWL	—		—	
1973 6	22:52:48.67	LM	—	8	36.064	114.768	0.3	A	79	9.70	0.90	RWL	—		—		—		2.1	RWL	—		—	
1973 7	3:35:29.60	SIZ	—	—	36.970	116.110	—		—	1.00	—	KKG	—		—		—		—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 JUN 7	5:24:37.11	SIZ	—	—	37.180	116.410	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 7	10:39: 2.08	SIZ	—	—	37.220	116.340	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 7	13:25:32.17	SIZ	—	—	37.240	116.410	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 7	15:23:59.65	LM	—	4	36.105	114.743	—	C	220	5.00*	—	RWL	—		—		—		1.5	RWL	—		—	
1973 7	23:41:49.02	LM	—	5	36.127	114.713	0.1	C	171	5.51	0.20	RWL	—		—		—		2.1	RWL	—		—	
1973 8	1:46:24.22		—	—	36.210	117.680	—		—	20.00*	—	KKG	—		1.7	BRP	2.9	PAS	—		—		—	
1973 8	10:18:56.82		—	—	38.290	117.220	—		—	10.00*	—	KKG	—		—		—		—		—		—	
1973 8	15: 7:44.41	LM	—	4	36.105	114.694	—	C	161	6.73	—	RWL	—		—		—		1.1	RWL	—		—	
1973 8	18:47:40.59	SIZ	—	—	37.300	116.440	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 9	3:11:35.35	SIZ	—	—	37.270	116.450	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 9	5:11:30.36	SIZ	—	—	36.970	116.120	—		—	3.90	—	KKG	—		—		—		—		—		—	
1973 9	6:11: 0.09	SIZ	—	—	37.240	116.370	—		—	5.00	—	KKG	—		—		—		—		—		—	
1973 9	21: 1:50.65	SIZ	—	—	37.250	116.360	—		—	2.20	—	KKG	—		—		—		2.8	RYN	—		—	
1973 10	5:57:16.10		0.27	6	37.686	114.917	—		—	—	—	RYN	—		—		—		3.0	RYN	—		—	
1973 10	6:38:17.21		—	—	36.220	117.990	—		—	15.80	—	KKG	—		—		—		—		—		2.9	GDY
1973 10	22:22: 7.00	SIZ	—	—	37.230	116.360	—		—	0.70	—	KKG	—		—		3.8	PAS	3.9	RYN	—		3.8	GDY
1973 11	7:56:21.06	SIZ	—	—	37.240	116.350	—		—	0.00*	—	KKG	—		—		3.2	PAS	3.3	RYN	—		3.2	GDY
1973 12	6:48:51.14	SIZ	—	—	37.250	116.360	—		—	0.00*	—	KKG	—		—		3.4	PAS	3.3	RYN	—		3.4	GDY
1973 12	8:15:48.92	SIZ	—	—	37.230	116.360	—		—	2.60	—	KKG	—		—		4.5	PAS	4.5	RYN	4.8	PDX	4.8	GDY
1973 12	12:54:38.65		—	—	35.915	117.712	—	C	—	8.00*	—	PAS	—		0.7	BRP	2.1	PAS	—		—		—	
1973 14	6:18: 8.40		0.38	4	38.233	117.874	—		—	—	—	RYN	—		—		—		1.8	RYN	—		—	
1973 16	14:36:43.63	SIZ	—	—	37.240	116.350	—		—	1.40	—	KKG	—		—		—		—		—		—	
1973 16	15:48:13.67	SIZ	—	—	37.240	116.340	—		—	-0.30	—	KKG	—		—		—		—		—		—	
1973 16	20: 0:55.35		—	—	36.790	115.340	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 17	21:34:19.90	SIZ	—	—	36.810	115.910	—		—	1.10	—	KKG	—		—		—		—		—		—	
1973 17	21:36:39.11	SIZ	—	—	36.830	115.930	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 17	22:38:14.91	SIZ	—	—	36.810	115.890	—		—	12.40	—	KKG	—		—		—		—		—		—	
1973 18	4:42: 2.52	SIZ	—	—	36.800	115.970	—		—	5.00*	—	KKG	—		—		—		—		—		—	
1973 18	5:38:30.81	SIZ	—	—	36.810	115.930	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 18	12:14:59.96	SIZ	—	—	37.240	116.470	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 18	20:34:17.87		—	—	37.470	116.650	—		—	0.40	—	KKG	—		—		—		3.2	RYN	—		—	
1973 19	4:25: 8.99		—	—	37.350	115.560	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 20	10:29:36.16	LM	—	8	36.108	114.703	1.2	C	156	7.83	1.00	RWL	—		—		—		0.5	RWL	—		—	
1973 20	12:54: 9.13	LM	—	7	36.109	114.685	0.9	B	121	4.56	1.70	RWL	—		—		—		1.3	RWL	—		—	
1973 21	14:45: 0.61	SIZ	—	—	37.071	116.005	—		—	8.00*	—	GDY	6	BRP	5.0	BRP	5.4	PDX	—		5.3	PDX	5.3	GDY
1973 22	7:31:28.70	LM	—	8	35.980	114.799	0.7	C	191	4.70	1.30	RWL	—		—		—		1.7	RWL	—		—	
1973 22	15:57:11.43	LM	—	8	36.097	114.736	0.6	C	178	1.42	6.00	RWL	—		—		—		1.7	RWL	—		—	
1973 22	17:20:50.46		—	—	37.130	116.950	—		—	0.80	—	KKG	—		—		—		—		—		—	
1973 23	9:21:10.21	LM	—	7	36.101	114.750	1.3	C	227	5.08	2.90	RWL	—		—		—		1.1	RWL	—		—	
1973 23	11:48:13.34	LM	—	7	36.088	114.747	1.0	C	190	7.81	1.50	RWL	—		—		—		1.3	RWL	—		—	
1973 23	12:11: 1.93	LM	—	8	36.090	114.751	0.8	C	195	7.26	1.30	RWL	—		—		—		1.2	RWL	—		—	
1973 23	13: 5:51.59	LM	—	7	36.086	114.760	0.6	C	204	8.10	1.10	RWL	—		—		—		1.8	RWL	—		—	
1973 23	13: 8:58.39	LM	—	9	36.089	114.749	0.6	C	192	7.78	0.90	RWL	—		—		—		1.3	RWL	—		—	
1973 23	14: 8:38.77	LM	—	7	36.089	114.748	1.1	C	192	7.84	1.30	RWL	—		—		—		0.4	RWL	—		—	
1973 23	15: 3:32.00		—	—	36.045	117.716	—	D	—	8.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1973 23	17:47:55.17		—	—	36.060	115.370	—		—	0.00	—	KKG	—		—		—		—		—		—	
1973 24	0: 5:46.69	LM	—	—	36.020	114.760	—		—	16.50	—	KKG	—		—		—		2.4	RWL	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 JUN 24	2:23: 2.41	LM	—	9	36.091	114.683	0.5	B	120	6.53	1.10	RWL	—		—		—		1.1	RWL	—		—	
1973 24	3:21:14.65	SIZ	—	—	36.930	116.030	—		—	8.90	—	KKG	—		—		—		—		—		—	
1973 24	6: 7:46.06		—	—	36.750	116.090	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 24	11:37:37.22		—	—	37.480	116.640	—		—	5.00*	—	KKG	5	BRP	4.0	BRP	—		—		4.2	PDX	4.2	GDY
1973 25	21:32:51.73	LM	—	6	36.063	114.794	0.8	C	227	5.85	2.00	RWL	—		—		—		1.1	RWL	—		—	
1973 26	14:40: 3.95	LM	—	8	36.111	114.733	1.1	C	176	6.38	2.40	RWL	—		—		—		1.0	RWL	—		—	
1973 26	23:32:13.94	LM	—	7	35.982	114.716	1.0	B	97	7.95	2.10	RWL	—		—		—		0.3	RWL	—		—	
1973 27	0:16:33.42	LM	—	6	36.010	114.750	0.3	C	91	0.58	61.00	RWL	—		—		—		1.3	RWL	—		—	
1973 27	17: 7:25.86		—	—	37.150	116.970	—		—	4.10	—	KKG	—		—		—		—		—		—	
1973 28	2:51:54.84	SIZ	—	—	36.810	115.880	—		—	0.00*	—	KKG	—		—		—		—		—		—	
1973 28	3:17:29.77	SIZ	—	—	37.260	116.610	—		—	5.00*	—	KKG	—		—		—		2.7	RYN	—		—	
1973 28	7:50:46.99	SIZ	—	—	37.270	116.610	—		—	5.00*	—	KKG	—		—		—		2.4	RYN	—		—	
1973 28	19:45: 0.50	SIZ	—	—	37.100	116.000	—	A	—	5.00*	—	BRP	—		—		—		—		—		—	
1973 30	2:46:35.88	SIZ	—	—	36.920	116.120	—		—	11.00	—	KKG	—		—		—		—		—		—	
1973 JUL 1	0:28:39.11	LM	—	6	35.928	114.817	1.8	C	320	9.56	2.50	RWL	—		—		—		1.4	RWL	—		—	
1973 1	14:15:14.03	LM	—	7	35.972	114.788	1.0	C	238	7.68	1.80	RWL	—		—		—		1.0	RWL	—		—	
1973 1	15:58:34.00	LM	—	7	36.159	114.583	1.3	C	194	3.90	2.30	RWL	—		—		—		1.5	RWL	—		—	
1973 1	18:11:59.96	LM	—	6	36.207	114.753	2.0	C	198	6.17	3.40	RWL	—		—		—		2.4	RWL	—		—	
1973 4	23: 3:19.92	LM	—	6	35.997	114.759	1.4	C	235	7.55	1.80	RWL	—		—		—		0.8	RWL	—		—	
1973 5	13:37:31.92	LM	—	5	36.109	114.737	1.6	C	210	6.94	2.60	RWL	—		—		—		0.7	RWL	—		—	
1973 5	16: 0:21.57	LM	—	4	36.169	114.733	—	C	267	5.00*	—	RWL	—		—		—		2.1	RWL	—		—	
1973 6	3:14:23.64	LM	—	5	35.973	114.823	0.6	C	299	6.48	1.10	RWL	—		—		—		0.8	RWL	—		—	
1973 6	3:52:15.34	LM	—	6	36.099	114.733	0.2	C	175	0.37	17.90	RWL	—		—		—		1.4	RWL	—		—	
1973 7	16:32:24.65	LM	—	8	36.103	114.712	0.6	B	145	6.72	1.50	RWL	—		—		—		1.2	RWL	—		—	
1973 7	22: 2: 1.80		0.88	7	37.603	115.730	—		—	—	—	RYN	—		—		—		3.5	RYN	—		—	
1973 7	23:30: 6.74	LM	—	6	36.066	114.804	0.8	D	253	0.67	89.90	RWL	—		—		—		1.3	RWL	—		—	
1973 8	2:19:53.63	LM	—	6	36.060	114.801	1.1	C	232	5.00*	3.90	RWL	—		—		—		1.8	RWL	—		—	
1973 9	0: 4: 7.31	LM	—	5	36.102	114.743	0.2	C	232	0.62	0.10	RWL	—		—		—		1.4	RWL	—		—	
1973 11	5:55:32.40		0.43	5	38.255	117.891	—		—	—	—	RYN	—		—		—		2.5	RYN	—		—	
1973 11	13:41: 4.66	LM	—	5	36.019	114.825	4.2	D	265	0.80	—	RWL	—		—		—		1.8	RWL	—		—	
1973 13	0: 2:54.39	SIZ	—	—	37.210	116.333	—		—	8.00*	—	GDY	—		—		—		—		—		—	
1973 14	7:51:54.94	LM	—	12	36.101	114.721	0.4	B	121	7.01	0.80	RWL	—		—		—		1.2	RWL	—		—	
1973 17	9: 3:44.30	LM	—	6	36.157	114.596	1.1	C	166	3.52	2.30	RWL	—		—		—		1.0	RWL	—		—	
1973 17	10: 2:40.44	LM	—	7	36.163	114.603	0.9	B	153	6.02	1.50	RWL	—		—		—		0.9	RWL	—		—	
1973 17	21: 9: 3.97	LM	—	6	36.149	114.700	0.8	B	175	8.19	0.90	RWL	—		—		—		0.8	RWL	—		—	
1973 18	8: 9:37.92	LM	—	6	36.096	114.665	1.4	B	109	7.42	3.00	RWL	—		—		—		1.1	RWL	—		—	
1973 19	8:47:52.84	LM	—	8	36.165	114.599	0.6	B	164	5.89	1.00	RWL	—		—		—		0.9	RWL	—		—	
1973 19	20:13:29.63		—	—	36.186	117.608	—	B	—	8.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1973 20	20:34:12.01	LM	—	10	36.015	114.619	0.3	C	116	1.10	11.20	RWL	—		—		—		1.5	RWL	—		—	
1973 20	21: 1:43.79	LM	—	6	36.039	114.637	1.7	B	99	8.06	4.00	RWL	—		—		—		1.0	RWL	—		—	
1973 22	12:26:39.57	LM	—	8	35.929	114.642	0.6	C	231	5.14	1.10	RWL	—		—		—		0.9	RWL	—		—	
1973 22	17: 5:52.85	LM	—	7	36.090	114.765	0.3	B	171	4.60	0.90	RWL	—		—		—		1.5	RWL	—		—	
1973 23	8:19:42.22	LM	—	7	36.109	114.658	0.4	C	188	6.57	0.60	RWL	—		—		—		0.4	RWL	—		—	
1973 23	10: 2: 1.82	LM	—	10	36.097	114.774	0.3	C	186	5.83	0.50	RWL	—		—		—		1.2	RWL	—		—	
1973 24	17:21:58.88	LM	—	6	36.159	114.652	1.1	C	168	0.41	—	RWL	—		—		—		1.7	RWL	—		—	
1973 24	23:49:38.68	LM	—	8	36.089	114.768	0.3	B	174	2.89	1.40	RWL	—		—		—		1.5	RWL	—		—	
1973 25	3:36:26.68	LM	—	11	36.098	114.773	0.5	C	186	5.94	1.10	RWL	—		—		—		0.7	RWL	—		—	
1973 25	8:56:45.67	LM	—	8	36.160	114.652	0.7	C	170	0.90	14.80	RWL	—		—		—		1.8	RWL	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 JUL 25	10: 6:19.85	LM	—	8	36.163	114.655	0.9	C	177	1.00*	13.00	RWL	—		—		—		2.5	RWL	—		—	
1973 25	10:27:11.29	LM	—	8	36.166	114.658	0.7	D	185	1.10	8.90	RWL	—		—		—		1.9	RWL	—		—	
1973 25	10:31: 5.19	LM	—	10	36.176	114.654	0.9	C	204	5.47	1.90	RWL	—		—		—		1.5	RWL	—		—	
1973 25	20:52:27.10	LM	—	9	36.015	114.764	0.8	B	101	8.78	2.20	RWL	—		—		—		1.3	RWL	—		—	
1973 26	5: 4:48.31	LM	—	9	36.182	114.652	1.5	C	214	5.92	2.80	RWL	—		—		—		1.7	RWL	—		—	
1973 28	20:32:58.58	LM	—	7	36.218	114.835	4.7	D	308	5.00*	3.10	RWL	—		—		—		2.1	RWL	—		—	
1973 29	4:10:12.02	LM	—	8	36.104	114.735	0.4	B	142	4.39	1.10	RWL	—		—		—		0.9	RWL	—		—	
1973 29	12: 7:53.87	LM	—	11	36.026	114.870	0.4	C	304	6.80	0.30	RWL	—		—		—		0.8	RWL	—		—	
1973 29	16:51:35.75	LM	—	6	36.163	114.603	1.1	C	153	6.04	1.10	RWL	—		—		—		0.6	RWL	—		—	
1973 29	16:51:43.09	LM	—	6	36.174	114.608	0.6	B	149	6.83	0.80	RWL	—		—		—		1.0	RWL	—		—	
1973 30	9:18:43.20		—	—	37.624	115.139	—		—	8.00*	—	GDY	—		—		3.5	PDX	—		—		3.5	GDY
1973 31	22:16:24.43	LM	—	7	36.161	114.599	0.6	B	161	4.94	0.70	RWL	—		—		—		0.6	RWL	—		—	
1973 AUG 1	2:22:36.20	LM	—	7	36.162	114.596	0.4	B	169	5.18	0.70	RWL	—		—		—		0.9	RWL	—		—	
1973 1	9:14:53.07		—	—	36.258	117.890	—	B	—	8.00*	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1973 1	14:27:11.59	LM	—	7	36.093	114.730	1.4	B	131	6.13	3.50	RWL	—		—		—		0.6	RWL	—		—	
1973 3	9:34: 6.08	LM	—	11	36.067	114.840	0.4	C	235	5.88	0.90	RWL	—		—		—		1.0	RWL	—		—	
1973 4	2:19:47.04	LM	—	8	35.982	114.789	0.4	B	169	6.64	1.00	RWL	—		—		—		0.9	RWL	—		—	
1973 4	3:32:22.88	LM	—	8	35.929	114.647	0.9	C	230	5.00*	1.10	RWL	—		—		—		1.2	RWL	—		—	
1973 4	19: 9: 3.73	LM	—	11	36.112	114.692	0.3	B	95	6.56	0.60	RWL	—		—		—		0.8	RWL	—		—	
1973 4	19:18:16.01	LM	—	12	36.075	114.725	0.3	B	119	6.36	1.00	RWL	—		—		—		1.0	RWL	—		—	
1973 6	9: 2:35.95	LM	—	8	35.925	114.645	0.4	C	233	4.09	0.40	RWL	—		—		—		0.4	RWL	—		—	
1973 6	10: 9:54.14	LM	—	6	36.083	114.702	1.0	B	159	6.96	1.20	RWL	—		—		—		0.2	RWL	—		—	
1973 6	22:24:58.83	LM	—	8	36.089	114.712	1.0	B	110	7.13	2.20	RWL	—		—		—		0.4	RWL	—		—	
1973 7	11:57: 0.03	LM	—	7	36.104	114.738	0.3	B	147	3.69	0.80	RWL	—		—		—		0.3	RWL	—		—	
1973 9	4:12:14.05	LM	—	8	35.938	114.834	0.6	C	274	5.48	1.10	RWL	—		—		—		0.9	RWL	—		—	
1973 9	18:28:48.97	LM	—	7	35.932	114.648	0.5	B	165	5.00*	0.80	RWL	—		—		—		1.7	RWL	—		—	
1973 9	20: 5:41.58	LM	—	8	35.922	114.639	0.5	C	282	4.87	0.40	RWL	—		—		—		0.5	RWL	—		—	
1973 9	20: 5:46.98	LM	—	9	35.930	114.640	0.5	C	210	4.96	0.60	RWL	—		—		—		1.8	RWL	—		—	
1973 10	2:50:43.63	LM	—	8	36.096	114.725	1.2	B	125	3.28	4.10	RWL	—		—		—		0.5	RWL	—		—	
1973 10	8:43:28.17	LM	—	11	36.090	114.670	0.5	B	85	1.71	2.80	RWL	—		—		—		1.3	RWL	—		—	
1973 11	2:11:53.30		0.16	5	38.493	117.874	—		—	—	—	RYN	—		—		—		1.7	RYN	—		—	
1973 11	13: 5:14.54	LM	—	9	35.957	114.951	1.2	C	324	5.00*	4.00	RWL	—		—		—		1.3	RWL	—		—	
1973 13	1:50:55.00	LM	—	6	35.990	114.712	—	B	87	3.85	0.20	RWL	—		—		—		0.6	RWL	—		—	
1973 14	11:42:20.50	LM	—	8	36.145	114.703	0.3	C	229	5.00*	0.50	RWL	—		—		—		0.8	RWL	—		—	
1973 14	23:48:41.53	LM	—	7	36.100	114.725	0.5	B	127	5.16	1.50	RWL	—		—		—		0.6	RWL	—		—	
1973 15	9:15: 1.68	LM	—	9	36.113	114.726	0.3	B	128	6.22	0.70	RWL	—		—		—		0.4	RWL	—		—	
1973 16	1: 1:13.39		—	—	35.932	116.928	—	B	—	8.00*	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1973 17	7:11:33.20		0.89	6	37.000	117.946	—		—	—	—	RYN	—		—		—		3.4	RYN	—		—	
1973 19	11:58:21.30		0.01	6	38.451	117.860	—		—	—	—	RYN	—		—		—		2.5	RYN	—		—	
1973 21	2:36:48.40		0.26	5	37.337	115.834	—		—	—	—	RYN	—		—		—		3.4	RYN	—		—	
1973 21	3:42:41.10		0.21	4	37.474	115.731	—		—	—	—	RYN	—		—		—		3.0	RYN	—		—	
1973 22	8: 4:50.82	LM	—	9	36.151	114.714	1.5	C	198	7.11	2.30	RWL	—		—		—		0.8	RWL	—		—	
1973 22	15:43:30.36	LM	—	5	36.138	114.733	0.2	C	215	5.00*	0.20	RWL	—		—		—		0.5	RWL	—		—	
1973 24	1:10: 8.12	LM	—	6	35.973	114.825	0.7	C	299	7.75	1.30	RWL	—		—		—		0.7	RWL	—		—	
1973 24	8:15:21.61	LM	—	8	36.014	114.773	0.7	B	149	7.18	1.00	RWL	—		—		—		0.5	RWL	—		—	
1973 26	10:31:39.97	LM	—	7	36.151	114.605	0.7	C	247	3.01	2.00	RWL	—		—		—		1.6	RWL	—		—	
1973 26	13:51:25.50	LM	—	8	36.123	114.650	0.2	C	208	3.33	0.60	RWL	—		—		—		0.4	RWL	—		—	
1973 26	15:27:33.47	LM	—	6	36.067	114.694	0.6	B	102	8.28	1.00	RWL	—		—		—		0.5	RWL	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 AUG 26	18:58:27.16	LM	—	4	36.084	114.613	—	C	243	5.00*	—	RWL	—		—		—		1.1	RWL	—		—	
1973 27	1:53:38.75	LM	—	6	36.053	114.705	0.4	C	227	7.98	0.50	RWL	—		—		—		0.9	RWL	—		—	
1973 27	4:50:22.27	LM	—	8	36.161	114.594	0.8	C	282	4.14	3.10	RWL	—		—		—		1.4	RWL	—		—	
1973 27	4:50:51.44	LM	—	10	36.151	114.590	1.1	C	250	6.97	2.40	RWL	—		—		—		1.2	RWL	—		—	
1973 27	5: 9: 5.98	LM	—	6	36.160	114.600	1.9	C	301	8.23	3.70	RWL	—		—		—		1.4	RWL	—		—	
1973 27	6:44: 6.43	LM	—	9	36.152	114.596	0.2	C	249	3.70	0.90	RWL	—		—		—		1.4	RWL	—		—	
1973 27	16:46: 6.67	LM	—	7	36.071	114.702	0.4	B	104	7.03	0.80	RWL	—		—		—		1.4	RWL	—		—	
1973 28	13: 5:56.23	LM	—	9	35.974	114.816	0.3	C	219	7.31	0.30	RWL	—		—		—		0.1	RWL	—		—	
1973 29	14:41:44.60	LM	—	9	36.107	114.703	0.4	B	154	8.28	0.50	RWL	—		—		—		0.3	RWL	—		—	
1973 29	20:41: 2.81	LM	—	6	36.015	114.650	0.5	B	95	4.36	1.50	RWL	—		—		—		0.4	RWL	—		—	
1973 31	11:42:38.33	LM	—	9	35.951	114.966	1.5	D	313	1.91	12.60	RWL	—		—		—		1.7	RWL	—		—	
1973 SEP 1	2: 3:24.24	LM	—	6	36.123	114.655	0.4	C	206	4.04	1.10	RWL	—		—		—		0.8	RWL	—		—	
1973 1	5: 2:41.33	LM	—	7	36.064	114.840	0.5	C	234	5.73	1.00	RWL	—		—		—		0.9	RWL	—		—	
1973 1	7:38:55.06	LM	—	9	36.067	114.841	0.4	C	236	6.14	0.90	RWL	—		—		—		1.1	RWL	—		—	
1973 1	8:40:18.76	LM	—	7	36.119	114.653	0.4	C	203	1.72	2.40	RWL	—		—		—		1.2	RWL	—		—	
1973 2	6:13:43.07	LM	—	7	36.120	114.652	0.2	C	204	2.89	0.80	RWL	—		—		—		1.1	RWL	—		—	
1973 2	19: 6:10.42	LM	—	7	36.089	114.678	0.3	B	151	5.61	0.70	RWL	—		—		—		1.7	RWL	—		—	
1973 2	20:54:35.68	LM	—	9	36.095	114.672	0.6	B	167	7.48	1.30	RWL	—		—		—		0.8	RWL	—		—	
1973 3	8:13:51.45	LM	—	8	36.088	114.677	0.3	B	150	5.69	0.60	RWL	—		—		—		1.7	RWL	—		—	
1973 5	8:57: 0.56	LM	—	7	36.066	114.768	0.3	B	155	7.83	0.70	RWL	—		—		—		1.6	RWL	—		—	
1973 5	16:16: 6.23	LM	—	6	35.984	114.795	0.7	B	173	6.77	1.40	RWL	—		—		—		1.2	RWL	—		—	
1973 5	20:44:57.39	LM	—	7	36.065	114.763	0.2	B	149	7.38	0.50	RWL	—		—		—		1.6	RWL	—		—	
1973 6	4:19:53.04	LM	—	9	35.953	114.823	0.3	B	168	3.48	1.00	RWL	—		—		—		1.7	RWL	—		—	
1973 6	23:41:28.23	LM	—	6	35.962	114.946	4.4	D	258	5.00*	9.20	RWL	—		—		—		1.6	RWL	—		—	
1973 8	8: 3:24.47	LM	—	7	36.158	114.595	1.0	C	169	5.09	1.10	RWL	—		—		—		0.3	RWL	—		—	
1973 8	12:57:50.59	LM	—	7	36.090	114.602	0.6	B	135	3.01	2.00	RWL	—		—		—		1.4	RWL	—		—	
1973 8	23:28:55.91	LM	—	8	35.945	114.976	0.4	C	322	3.39	1.70	RWL	—		—		—		1.8	RWL	—		—	
1973 9	6: 8:42.98	LM	—	7	35.921	114.646	0.3	C	237	4.21	0.70	RWL	—		—		—		0.8	RWL	—		—	
1973 9	7: 9:24.97	LM	—	8	36.018	114.802	0.4	B	160	8.00*	0.70	RWL	—		—		—		0.4	RWL	—		—	
1973 10	6:14: 0.54	LM	—	7	36.012	114.731	0.5	C	119	0.37	76.60	RWL	—		—		—		1.6	RWL	—		—	
1973 10	11:29:35.81	LM	—	8	36.058	114.803	0.3	C	202	9.27	0.60	RWL	—		—		—		1.3	RWL	—		—	
1973 10	16:20:28.41	LM	—	9	35.969	114.808	0.5	C	215	6.91	0.60	RWL	—		—		—		0.6	RWL	—		—	
1973 12	9:52:37.87	LM	—	8	35.929	114.648	0.6	C	230	4.07	0.80	RWL	—		—		—		1.6	RWL	—		—	
1973 12	16:33: 5.77	LM	—	6	36.233	114.798	1.3	C	295	9.53	1.60	RWL	—		—		—		1.8	RWL	—		—	
1973 13	10:49:16.69		—	—	35.772	117.662	—	B	—	8.00*	—	PAS	—		1.1	BRP	2.4	PAS	—		—		—	
1973 13	11:37: 5.26	LM	—	6	36.118	114.717	0.9	C	310	6.84	0.80	RWL	—		—		—		0.5	RWL	—		—	
1973 14	11:37:19.96	LM	—	6	36.118	114.651	0.9	C	187	4.20	2.10	RWL	—		—		—		0.6	RWL	—		—	
1973 14	22:19: 4.50		0.36	5	37.443	115.053	—		—	—	—	RYN	—		—		—		3.8	RYN	—		—	
1973 14	23:45:18.18	LM	—	6	36.170	114.597	0.9	B	177	6.92	1.30	RWL	—		—		—		1.0	RWL	—		—	
1973 14	23:45:44.07	LM	—	7	36.161	114.603	0.9	B	152	5.90	0.80	RWL	—		—		—		0.3	RWL	—		—	
1973 15	4:56:53.69	LM	—	7	36.156	114.597	1.0	C	163	4.66	2.20	RWL	—		—		—		0.9	RWL	—		—	
1973 15	11:14: 8.44	LM	—	8	36.110	114.726	0.4	B	164	4.13	0.80	RWL	—		—		—		0.1	RWL	—		—	
1973 16	2:22: 0.61	LM	—	6	36.016	114.605	0.8	B	124	4.70	3.40	RWL	—		—		—		0.1	RWL	—		—	
1973 17	9:13:33.57	LM	—	9	35.971	114.810	0.3	C	215	6.48	0.40	RWL	—		—		—		0.2	RWL	—		—	
1973 18	0:55: 3.76	LM	—	7	36.097	114.748	0.4	B	156	6.21	0.70	RWL	—		—		—		0.1	RWL	—		—	
1973 18	22:17:44.84	LM	—	8	36.153	114.599	1.0	C	158	2.17	3.80	RWL	—		—		—		2.3	RWL	—		—	
1973 19	0: 9: 9.06	LM	—	10	36.112	114.687	0.3	B	97	6.47	0.60	RWL	—		—		—		0.3	RWL	—		—	
1973 19	16:48:53.02		—	—	35.606	117.483	—		—	8.00*	—	GDY	1	BRP	2.0	BRP	3.1	PAS	—		—		3.1	GDY

SGB HISTORICAL HYPOCENTER SUMMARY 1868–1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 SEP 19	16:59: 3.37	LM	—	7	36.076	114.632	0.2	B	108	4.50	0.30	RWL	—		—		—		1.1	RWL	—		—	
1973 20	1:47:30.31	LM	—	6	36.164	114.609	1.0	B	170	4.26	1.70	RWL	—		—		—		1.2	RWL	—		—	
1973 20	3:40: 4.05	LM	—	7	35.958	114.970	1.3	C	312	6.68	2.00	RWL	—		—		—		1.8	RWL	—		—	
1973 20	4:37:34.49	LM	—	7	35.926	114.824	0.6	C	274	5.65	1.10	RWL	—		—		—		0.6	RWL	—		—	
1973 20	10:43:41.72	LM	—	6	35.974	114.809	0.5	C	209	8.08	0.80	RWL	—		—		—		0.6	RWL	—		—	
1973 20	15: 7:50.37	LM	—	6	36.088	114.702	1.1	C	157	4.91	2.40	RWL	—		—		—		0.3	RWL	—		—	
1973 21	18:48:34.41	LM	—	8	36.086	114.723	0.7	B	121	8.77	0.90	RWL	—		—		—		0.2	RWL	—		—	
1973 28	2:43:36.34	LM	—	6	35.972	114.805	1.0	C	208	8.18	1.70	RWL	—		—		—		1.3	RWL	—		—	
1973 28	14:20:21.30		0.21	4	38.201	117.460	—		—	—	—	RYN	—		—		—		2.3	RYN	—		—	
1973 OCT 1	14:49: 8.99	LM	—	7	35.951	114.961	1.2	C	312	6.92	2.00	RWL	—		—		—		1.9	RWL	—		—	
1973 2	1:39:53.78	LM	—	8	35.973	114.815	0.8	C	219	7.21	0.90	RWL	—		—		—		0.2	RWL	—		—	
1973 2	15:15: 0.00		—	—	37.200	115.800	—		—	—	—	ISC	—		—		—		—		—		—	
1973 3	13:49:54.58	LM	—	7	35.924	114.646	0.4	C	235	4.47	0.90	RWL	—		—		—		0.3	RWL	—		—	
1973 3	14:22:30.72	LM	—	8	35.875	114.593	0.8	D	274	0.75	—	RWL	—		—		—		0.6	RWL	—		—	
1973 3	22:35:36.18	LM	—	6	36.111	114.724	0.1	C	182	7.14	0.10	RWL	—		—		—		0.4	RWL	—		—	
1973 4	7:51:42.51	LM	—	5	36.044	114.702	2.2	C	91	7.62	2.70	RWL	—		—		—		0.6	RWL	—		—	
1973 4	10:14: 3.72	LM	—	6	36.085	114.699	0.2	A	81	4.12	0.90	RWL	—		—		—		0.7	RWL	—		—	
1973 4	17:54:59.17	LM	—	7	36.122	114.653	0.3	B	109	2.20	1.40	RWL	—		—		—		1.4	RWL	—		—	
1973 5	3:11:37.70	LM	—	8	36.119	114.652	0.2	B	105	2.46	1.20	RWL	—		—		—		1.8	RWL	—		—	
1973 5	10:50:22.41	LM	—	7	36.071	114.721	0.2	B	114	9.46	0.50	RWL	—		—		—		1.8	RWL	—		—	
1973 6	7:36:10.53		—	—	36.062	117.408	—		—	8.00*	—	GDY	—		—		2.7	PAS	—		—		2.7	GDY
1973 9	8:21:55.20		0.12	5	38.472	117.912	—		—	—	—	RYN	—		—		—		1.5	RYN	—		—	
1973 9	14:32:36.86	LM	—	7	36.098	114.738	0.7	B	143	9.23	1.60	RWL	—		—		—		1.1	RWL	—		—	
1973 9	20:13:32.76	LM	—	7	36.120	114.652	0.5	B	106	4.45	1.30	RWL	—		—		—		1.8	RWL	—		—	
1973 9	20:14: 1.98	LM	—	7	36.123	114.648	0.7	B	108	3.54	2.90	RWL	—		—		—		1.2	RWL	—		—	
1973 9	20:16: 6.61	LM	—	6	36.122	114.650	0.1	B	108	3.30	0.50	RWL	—		—		—		1.0	RWL	—		—	
1973 9	23:43: 0.19	LM	—	8	36.116	114.650	0.1	B	101	3.17	0.50	RWL	—		—		—		1.5	RWL	—		—	
1973 10	7:48:28.15	LM	—	6	36.116	114.649	0.3	B	100	4.00*	0.80	RWL	—		—		—		1.6	RWL	—		—	
1973 11	15:12:49.70		0.07	5	38.029	116.181	—		—	—	—	RYN	—		—		—		3.1	RYN	—		—	
1973 11	18:37:17.22	LM	—	5	36.016	114.693	2.3	C	183	7.76	2.70	RWL	—		—		—		1.2	RWL	—		—	
1973 12	21:19:22.57	LM	—	6	36.092	114.679	0.4	B	116	5.32	0.80	RWL	—		—		—		0.8	RWL	—		—	
1973 12	22:15:53.57	LM	—	5	36.094	114.678	0.4	C	114	5.76	0.90	RWL	—		—		—		0.4	RWL	—		—	
1973 13	6:57:15.57	LM	—	6	36.125	114.663	0.9	B	116	4.81	3.30	RWL	—		—		—		0.3	RWL	—		—	
1973 14	11:53: 1.99	LM	—	7	36.000	114.615	0.3	C	135	0.44	60.40	RWL	—		—		—		1.9	RWL	—		—	
1973 14	12: 2:25.09	LM	—	5	35.998	114.616	0.3	C	137	3.58	0.90	RWL	—		—		—		1.1	RWL	—		—	
1973 14	19:18: 3.24	LM	—	8	35.998	114.613	0.7	C	139	3.33	2.40	RWL	—		—		—		0.9	RWL	—		—	
1973 16	7:43:27.31	LM	—	8	35.955	114.758	0.8	B	142	4.04	1.40	RWL	—		—		—		1.3	RWL	—		—	
1973 19	0:22:32.69	LM	—	8	36.107	114.652	0.6	B	99	6.26	1.40	RWL	—		—		—		1.0	RWL	—		—	
1973 21	14:37:22.70		—	—	37.267	117.512	—	D	—	8.00*	—	PAS	—		—		2.5	PAS	—		—		—	
1973 22	15:35: 4.66	LM	—	8	36.120	114.650	0.3	B	105	4.46	0.70	RWL	—		—		—		1.7	RWL	—		—	
1973 22	15:40:39.01	LM	—	7	36.122	114.650	0.5	B	108	3.51	1.80	RWL	—		—		—		1.3	RWL	—		—	
1973 22	17: 1:23.26	LM	—	8	35.925	114.805	0.8	C	266	5.04	1.40	RWL	—		—		—		1.3	RWL	—		—	
1973 26	18:36:39.53	LM	—	6	36.144	114.671	0.6	B	151	4.99	1.50	RWL	—		—		—		1.4	RWL	—		—	
1973 28	7:56:45.38	LM	—	8	35.927	114.826	0.5	C	274	5.98	0.80	RWL	—		—		—		1.3	RWL	—		—	
1973 28	18: 2: 0.32	LM	—	9	36.087	114.763	0.3	B	167	10.31	0.40	RWL	—		—		—		0.6	RWL	—		—	
1973 30	3:14: 0.61	LM	—	7	35.958	114.959	1.1	C	311	3.69	3.00	RWL	—		—		—		2.0	RWL	—		—	
1973 30	13:33:15.20	LM	—	9	36.094	114.674	0.5	A	86	7.20	1.30	RWL	—		—		—		0.7	RWL	—		—	
1973 30	15: 2:10.34	LM	—	7	36.091	114.677	0.1	A	80	6.32	0.30	RWL	—		—		—		1.5	RWL	—		—	

DATE (UTC)	ORIGIN TIME HR	MN	SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 OCT 30	15	47	40.10	LM	—	8	36.091	114.680	0.2	A	81	6.45	0.40	RWL	—		—		—		1.6	RWL	—		—	
1973 30	17	41	52.70	LM	—	9	36.096	114.676	0.5	B	112	7.38	0.90	RWL	—		—		—		1.0	RWL	—		—	
1973 30	17	51	48.52	LM	—	8	36.093	114.679	0.3	A	81	6.14	0.60	RWL	—		—		—		2.6	RWL	—		—	
1973 30	18	11	22.87	LM	—	8	36.093	114.679	0.2	A	80	5.70	0.50	RWL	—		—		—		1.8	RWL	—		—	
1973 30	19	52	46.83	LM	—	10	36.093	114.677	0.3	A	82	5.97	0.70	RWL	—		—		—		1.6	RWL	—		—	
1973 30	20	15	47.65	LM	—	10	36.093	114.677	0.3	A	83	6.32	0.60	RWL	—		—		—		1.2	RWL	—		—	
1973 30	21	19	52.13	LM	—	11	36.095	114.676	0.2	A	85	6.28	0.60	RWL	—		—		—		1.5	RWL	—		—	
1973 30	23	32	41.70	LM	—	8	36.093	114.677	0.3	A	82	6.27	0.60	RWL	—		—		—		1.2	RWL	—		—	
1973 31	4	22	7.97	LM	—	7	36.093	114.677	0.4	B	114	5.38	1.00	RWL	—		—		—		0.7	RWL	—		—	
1973 31	5	3	40.61	LM	—	8	36.094	114.680	0.2	A	81	5.77	0.40	RWL	—		—		—		2.5	RWL	—		—	
1973 31	5	5	19.92	LM	—	7	36.096	114.675	0.4	B	116	6.77	1.00	RWL	—		—		—		0.5	RWL	—		—	
1973 31	5	12	4.21	LM	—	8	36.097	114.674	0.5	B	110	5.48	1.40	RWL	—		—		—		0.6	RWL	—		—	
1973 31	5	30	37.50	LM	—	10	36.095	114.677	0.2	A	84	6.27	0.40	RWL	—		—		—		1.4	RWL	—		—	
1973 31	5	32	12.24	LM	—	7	36.093	114.676	0.3	B	118	6.04	0.70	RWL	—		—		—		0.9	RWL	—		—	
1973 31	5	32	29.55	LM	—	8	36.093	114.678	0.2	A	81	5.99	0.50	RWL	—		—		—		1.7	RWL	—		—	
1973 31	6	12	47.56	LM	—	7	36.090	114.676	0.2	B	115	5.44	0.60	RWL	—		—		—		0.6	RWL	—		—	
1973 31	6	24	8.05	LM	—	11	36.098	114.678	0.3	A	83	6.72	0.70	RWL	—		—		—		1.7	RWL	—		—	
1973 31	9	0	5.31	LM	—	6	36.094	114.677	0.1	B	114	5.92	0.20	RWL	—		—		—		0.5	RWL	—		—	
1973 31	9	7	16.49	LM	—	7	36.095	114.677	0.3	B	113	6.20	0.70	RWL	—		—		—		0.9	RWL	—		—	
1973 31	12	36	38.82	LM	—	8	36.093	114.680	0.4	A	81	5.91	0.80	RWL	—		—		—		1.5	RWL	—		—	
1973 31	13	38	16.63	LM	—	9	36.092	114.674	0.3	A	84	6.16	0.80	RWL	—		—		—		1.8	RWL	—		—	
1973 31	20	44	16.64	LM	—	8	36.092	114.676	0.2	A	82	6.12	0.50	RWL	—		—		—		2.3	RWL	—		—	
1973 31	22	45	30.68	LM	—	12	36.095	114.677	0.3	A	84	7.61	0.70	RWL	—		—		—		0.9	RWL	—		—	
1973 NOV 1	5	17	26.94	LM	—	11	36.089	114.674	0.4	A	81	6.40	1.00	RWL	—		—		—		1.2	RWL	—		—	
1973 1	5	35	21.10	LM	—	7	36.090	114.678	0.2	B	116	5.97	0.50	RWL	—		—		—		0.2	RWL	—		—	
1973 1	9	17	4.96	LM	—	12	36.094	114.672	0.4	A	87	7.83	1.00	RWL	—		—		—		1.6	RWL	—		—	
1973 2	3	6	7.54	LM	—	7	36.093	114.677	0.3	A	82	5.80	0.60	RWL	—		—		—		1.5	RWL	—		—	
1973 2	7	20	58.10	LM	—	8	36.094	114.679	0.3	A	82	6.18	0.60	RWL	—		—		—		1.8	RWL	—		—	
1973 2	8	53	51.90	LM	—	8	36.092	114.680	0.2	A	81	6.22	0.40	RWL	—		—		—		2.1	RWL	—		—	
1973 2	11	26	38.21	LM	—	5	36.093	114.675	0.4	C	113	6.64	0.80	RWL	—		—		—		0.8	RWL	—		—	
1973 3	15	49	28.97	LM	—	6	35.957	114.804	0.7	C	230	9.56	1.00	RWL	—		—		—		1.8	RWL	—		—	
1973 4	8	36	41.42	LM	—	6	36.090	114.676	0.2	B	114	6.14	0.50	RWL	—		—		—		0.8	RWL	—		—	
1973 5	2	50	22.20		0.26	5	37.959	115.110	—		—	—	—	RYN	—		—		—		3.0	RYN	—		—	
1973 5	10	3	17.80	LM	—	7	36.119	114.651	0.3	B	104	4.93	0.90	RWL	—		—		—		2.5	RWL	—		—	
1973 5	10	15	45.00	LM	—	6	36.118	114.652	0.3	B	103	3.98	1.00	RWL	—		—		—		1.4	RWL	—		—	
1973 5	19	39	5.12	LM	—	6	36.120	114.649	0.1	B	134	4.25	0.30	RWL	—		—		—		1.6	RWL	—		—	
1973 5	20	6	41.87	LM	—	7	36.117	114.651	0.3	B	102	4.00*	0.80	RWL	—		—		—		0.8	RWL	—		—	
1973 5	20	9	11.53	LM	—	7	36.122	114.651	0.2	B	108	3.02	0.80	RWL	—		—		—		2.4	RWL	—		—	
1973 7	1	11	42.67	LM	—	5	36.040	114.775	1.0	C	136	9.93	2.60	RWL	—		—		—		1.2	RWL	—		—	
1973 7	7	13	30.33	LM	—	7	36.120	114.648	0.2	B	105	5.07	0.60	RWL	—		—		—		2.2	RWL	—		—	
1973 7	7	26	47.92	LM	—	7	36.116	114.650	0.3	B	101	4.65	0.70	RWL	—		—		—		1.7	RWL	—		—	
1973 7	7	27	25.38	LM	—	7	36.115	114.648	0.3	B	101	3.99	0.90	RWL	—		—		—		1.5	RWL	—		—	
1973 7	7	29	6.49	LM	—	7	36.118	114.648	0.2	B	102	4.58	0.40	RWL	—		—		—		1.9	RWL	—		—	
1973 7	13	11	43.21	LM	—	6	36.114	114.648	0.3	B	102	3.36	0.90	RWL	—		—		—		1.2	RWL	—		—	
1973 7	15	15	46.80	LM	—	6	36.004	114.838	1.3	C	234	11.06	1.90	RWL	—		—		—		1.3	RWL	—		—	
1973 8	18	58	51.13	LM	—	6	36.118	114.646	0.3	B	139	3.23	0.80	RWL	—		—		—		1.2	RWL	—		—	
1973 9	17	1	32.33	LM	—	7	36.094	114.676	0.3	A	84	5.98	0.60	RWL	—		—		—		1.5	RWL	—		—	
1973 9	20	27	33.73	LM	—	6	36.094	114.674	0.3	B	111	6.94	0.60	RWL	—		—		—		1.3	RWL	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 NOV 10	16:45:38.88	LM	—	6	36.106	114.738	0.5	B	148	4.56	1.20	RWL	—		—		—		1.7	RWL	—		—	
1973 10	19:12:17.75	LM	—	7	36.108	114.651	0.3	B	100	6.59	0.50	RWL	—		—		—		1.5	RWL	—		—	
1973 11	19:12:37.78	LM	—	7	36.091	114.679	0.4	A	80	5.40	0.90	RWL	—		—		—		1.8	RWL	—		—	
1973 11	21:32:50.78	LM	—	6	36.092	114.677	—	B	114	5.77	0.10	RWL	—		—		—		0.5	RWL	—		—	
1973 11	21:39:38.82	LM	—	5	36.005	114.755	0.5	C	134	3.51	2.10	RWL	—		—		—		0.9	RWL	—		—	
1973 12	2:56:52.45	LM	—	5	36.007	114.750	0.2	C	136	2.47	1.10	RWL	—		—		—		0.8	RWL	—		—	
1973 13	0:47:15.92	LM	—	8	36.089	114.673	0.4	A	82	6.09	0.90	RWL	—		—		—		0.8	RWL	—		—	
1973 13	7: 4:13.29	LM	—	8	36.044	114.878	1.2	C	276	4.67	2.10	RWL	—		—		—		1.5	RWL	—		—	
1973 13	8:29:37.16	LM	—	7	35.985	114.770	0.8	B	137	7.48	1.60	RWL	—		—		—		1.9	RWL	—		—	
1973 13	20:38: 5.24	LM	—	8	35.960	114.810	0.8	C	232	8.32	1.30	RWL	—		—		—		1.7	RWL	—		—	
1973 14	12:50:30.99	LM	—	6	36.097	114.681	0.1	B	115	5.45	0.30	RWL	—		—		—		1.1	RWL	—		—	
1973 14	15:19:10.10		0.30	4	37.993	116.042	—		—	—	—	RYN	—		—		—		3.0	RYN	—		—	
1973 14	18:26:17.00	LM	—	8	36.094	114.679	0.3	A	82	6.12	0.60	RWL	—		—		—		1.2	RWL	—		—	
1973 14	22:20:16.18	LM	—	6	35.946	114.835	0.8	C	269	2.35	3.60	RWL	—		—		—		1.4	RWL	—		—	
1973 15	7:37:11.43	LM	—	7	36.117	114.651	0.3	B	101	3.84	0.90	RWL	—		—		—		1.9	RWL	—		—	
1973 15	15:31:34.86	LM	—	8	35.959	114.796	0.5	C	218	8.94	0.80	RWL	—		—		—		1.5	RWL	—		—	
1973 16	5:14:46.98	LM	—	9	35.978	114.785	0.2	B	169	6.52	0.40	RWL	—		—		—		1.4	RWL	—		—	
1973 16	18:58:12.16	LM	—	9	35.976	114.792	0.4	C	181	7.61	0.50	RWL	—		—		—		1.6	RWL	—		—	
1973 17	7:49: 0.18	LM	—	8	35.978	114.785	0.3	B	168	7.25	0.40	RWL	—		—		—		1.0	RWL	—		—	
1973 17	8: 7: 5.55	LM	—	8	35.986	114.762	0.5	B	123	6.87	1.10	RWL	—		—		—		1.7	RWL	—		—	
1973 17	14:43:34.91	LM	—	7	35.986	114.758	0.7	B	117	7.01	1.60	RWL	—		—		—		1.4	RWL	—		—	
1973 17	19:20:34.44	LM	—	7	35.977	114.794	0.1	C	183	7.76	0.10	RWL	—		—		—		1.3	RWL	—		—	
1973 17	19:39:24.95	LM	—	7	35.976	114.793	0.2	C	184	7.47	0.40	RWL	—		—		—		1.5	RWL	—		—	
1973 17	22:54:42.30	LM	—	6	35.984	114.787	2.3	C	164	5.00*	6.10	RWL	—		—		—		1.4	RWL	—		—	
1973 19	1: 2:37.60	LM	—	9	35.975	114.792	0.5	C	183	8.65	0.80	RWL	—		—		—		1.8	RWL	—		—	
1973 19	2:21: 2.22	LM	—	9	35.959	114.990	1.3	C	315	6.73	3.00	RWL	—		—		—		1.9	RWL	—		—	
1973 20	8:20:16.31	LM	—	7	36.092	114.679	0.3	A	80	5.38	0.70	RWL	—		—		—		2.0	RWL	—		—	
1973 20	10: 5: 9.62	LM	—	7	36.092	114.675	0.3	B	160	6.33	0.30	RWL	—		—		—		0.5	RWL	—		—	
1973 20	10:46:30.46	LM	—	7	36.091	114.682	0.3	B	152	5.39	0.40	RWL	—		—		—		0.4	RWL	—		—	
1973 20	11:58:22.84	LM	—	10	36.094	114.673	0.4	A	87	6.52	1.00	RWL	—		—		—		1.7	RWL	—		—	
1973 20	23:22: 3.20	LM	—	8	36.093	114.676	0.2	A	83	5.69	0.50	RWL	—		—		—		1.8	RWL	—		—	
1973 20	23:58:13.32	LM	—	8	35.974	114.799	1.1	C	196	10.33	1.70	RWL	—		—		—		1.9	RWL	—		—	
1973 21	12:58: 3.65	LM	—	10	35.981	114.792	0.3	B	174	8.40	0.60	RWL	—		—		—		1.8	RWL	—		—	
1973 21	14:36:35.35	LM	—	12	36.098	114.675	0.3	A	85	8.12	0.80	RWL	—		—		—		1.8	RWL	—		—	
1973 21	14:42: 9.70	LM	—	8	35.980	114.792	1.4	C	176	8.31	2.40	RWL	—		—		—		2.0	RWL	—		—	
1973 22	5:46:20.73	LM	—	9	36.116	114.650	0.2	B	100	3.29	0.70	RWL	—		—		—		1.6	RWL	—		—	
1973 22	13:50:43.84	LM	—	10	36.115	114.652	0.3	B	100	4.37	0.90	RWL	—		—		—		1.4	RWL	—		—	
1973 23	15:47: 2.04	LM	—	10	35.979	114.793	0.3	B	178	8.36	0.60	RWL	—		—		—		1.5	RWL	—		—	
1973 24	1:32:57.75	LM	—	10	35.977	114.792	0.4	C	181	7.08	0.60	RWL	—		—		—		1.2	RWL	—		—	
1973 24	4:58:32.19	LM	—	8	36.115	114.649	0.2	B	101	4.69	0.50	RWL	—		—		—		2.7	RWL	—		—	
1973 24	9:29:55.48	LM	—	11	35.979	114.792	0.4	B	176	7.59	0.60	RWL	—		—		—		1.4	RWL	—		—	
1973 24	12: 1: 5.87	LM	—	11	36.093	114.673	0.3	A	86	7.85	0.80	RWL	—		—		—		1.6	RWL	—		—	
1973 24	21:20:34.61	LM	—	7	36.093	114.736	0.3	B	139	5.89	0.80	RWL	—		—		—		1.0	RWL	—		—	
1973 25	4:19: 5.37	LM	—	11	36.099	114.676	0.4	A	85	7.63	1.00	RWL	—		—		—		1.7	RWL	—		—	
1973 25	9:59:29.69	LM	—	9	36.081	114.766	0.9	B	165	7.95	1.40	RWL	—		—		—		0.6	RWL	—		—	
1973 25	22:32: 9.57	LM	—	7	36.012	114.611	0.3	B	156	3.72	1.20	RWL	—		—		—		2.0	RWL	—		—	
1973 26	3:50:26.63	LM	—	7	36.010	114.612	0.3	B	157	3.66	1.50	RWL	—		—		—		2.0	RWL	—		—	
1973 26	6:43:37.32	LM	—	7	35.970	114.795	0.6	C	198	9.64	1.10	RWL	—		—		—		1.5	RWL	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1973 NOV 26	8:33: 4.90	LM	—	7	36.113	114.651	0.2	B	99	4.14	0.60	RWL	—		—		—		2.2	RWL	—		—	
1973 26	12:42:33.69	LM	—	7	36.113	114.649	0.2	B	101	3.91	0.50	RWL	—		—		—		2.3	RWL	—		—	
1973 26	13:42:41.27	LM	—	10	35.980	114.754	0.6	B	116	6.53	1.90	RWL	—		—		—		1.5	RWL	—		—	
1973 27	18:47:19.50	LM	—	4	36.089	114.677	—	C	153	5.00*	—	RWL	—		—		—		1.9	RWL	—		—	
1973 27	19:47: 4.55	LM	—	6	36.089	114.766	1.6	C	252	8.63	1.80	RWL	—		—		—		0.9	RWL	—		—	
1973 28	1:44:19.99	LM	—	4	36.111	114.651	—	C	194	3.54	—	RWL	—		—		—		1.8	RWL	—		—	
1973 28	1:55:49.38	LM	—	5	36.113	114.654	0.4	C	195	4.02	0.90	RWL	—		—		—		1.6	RWL	—		—	
1973 28	5:12:38.39	LM	—	6	36.101	114.731	0.3	C	199	7.46	0.20	RWL	—		—		—		1.3	RWL	—		—	
1973 28	6:24:26.69	LM	—	4	36.110	114.653	—	C	193	3.06	—	RWL	—		—		—		2.7	RWL	—		—	
1973 28	7:15:34.36	LM	—	4	36.110	114.654	—	C	192	3.89	—	RWL	—		—		—		2.2	RWL	—		—	
1973 28	9:46:32.11	LM	—	6	36.109	114.652	1.2	C	192	6.01	1.90	RWL	—		—		—		1.6	RWL	—		—	
1973 28	10: 2: 3.93	LM	—	4	36.110	114.655	—	C	192	4.36	—	RWL	—		—		—		2.2	RWL	—		—	
1973 28	10:40:40.41	LM	—	7	36.084	114.758	1.0	C	243	9.04	0.80	RWL	—		—		—		0.8	RWL	—		—	
1973 28	10:44:16.69	LM	—	7	36.078	114.769	1.6	C	257	8.36	1.20	RWL	—		—		—		1.1	RWL	—		—	
1973 28	17:37: 4.49	LM	—	5	36.117	114.654	0.5	C	200	4.28	1.00	RWL	—		—		—		1.2	RWL	—		—	
1973 29	6:12:46.32	LM	—	4	36.108	114.653	—	C	191	3.09	—	RWL	—		—		—		2.7	RWL	—		—	
1973 29	6:13:36.50	LM	—	4	36.111	114.649	—	C	195	1.26	—	RWL	—		—		—		2.4	RWL	—		—	
1973 29	6:14:28.04	LM	—	5	36.114	114.650	0.3	C	199	3.73	0.70	RWL	—		—		—		1.3	RWL	—		—	
1973 29	6:18:31.32	LM	—	5	36.107	114.652	0.2	C	191	3.37	0.50	RWL	—		—		—		1.3	RWL	—		—	
1973 29	6:21:46.57	LM	—	5	36.110	114.651	0.6	C	194	4.99	1.30	RWL	—		—		—		1.6	RWL	—		—	
1973 29	6:23: 3.29	LM	—	5	36.110	114.654	0.3	C	192	3.12	0.60	RWL	—		—		—		1.7	RWL	—		—	
1973 29	7:23:39.03	LM	—	5	36.112	114.649	0.5	C	197	4.76	1.10	RWL	—		—		—		1.2	RWL	—		—	
1973 29	8: 7:47.74	LM	—	4	36.110	114.653	—	C	193	3.06	—	RWL	—		—		—		1.5	RWL	—		—	
1973 29	23:30:27.06	LM	—	6	36.087	114.758	1.3	C	243	9.51	1.20	RWL	—		—		—		1.2	RWL	—		—	
1973 30	6:19:28.11	LM	—	6	36.121	114.651	0.6	C	206	4.09	1.00	RWL	—		—		—		1.1	RWL	—		—	
1973 30	6:55:16.49	LM	—	4	36.111	114.651	—	C	194	3.54	—	RWL	—		—		—		1.9	RWL	—		—	
1973 DEC 1	3:38:24.01	LM	—	4	36.110	114.654	—	C	192	3.89	—	RWL	—		—		—		1.8	RWL	—		—	
1973 1	5: 4:17.90	LM	—	4	36.106	114.652	—	C	189	3.11	—	RWL	—		—		—		2.3	RWL	—		—	
1973 1	8:50:37.12	LM	—	5	36.110	114.649	0.4	C	194	4.59	0.90	RWL	—		—		—		1.1	RWL	—		—	
1973 1	8:52:43.28	LM	—	4	36.109	114.651	—	C	192	4.34	—	RWL	—		—		—		1.5	RWL	—		—	
1973 1	11: 6:49.17	LM	—	4	36.106	114.653	—	C	189	3.83	—	RWL	—		—		—		1.3	RWL	—		—	
1973 2	7:37:13.23	LM	—	7	36.070	114.759	1.8	C	251	11.50	1.40	RWL	—		—		—		1.1	RWL	—		—	
1973 3	18: 8:31.98	LM	—	6	36.090	114.741	1.3	C	218	7.85	0.80	RWL	—		—		—		1.3	RWL	—		—	
1973 3	20:33:16.43	LM	—	4	36.108	114.654	—	C	190	3.89	—	RWL	—		—		—		1.8	RWL	—		—	
1973 4	0:26:27.38	LM	—	6	36.090	114.742	1.2	C	220	8.12	0.80	RWL	—		—		—		1.1	RWL	—		—	
1973 4	15:48:41.38	LM	—	5	36.095	114.733	1.9	C	205	8.41	2.10	RWL	—		—		—		1.8	RWL	—		—	
1973 4	17:30:23.14	LM	—	5	36.114	114.650	0.2	C	199	3.69	0.70	RWL	—		—		—		1.0	RWL	—		—	
1973 4	17:35: 1.48	LM	—	7	36.084	114.767	1.3	C	254	10.20	0.90	RWL	—		—		—		0.9	RWL	—		—	
1973 5	5:47:20.42	LM	—	6	36.090	114.682	0.2	B	150	6.74	0.20	RWL	—		—		—		0.9	RWL	—		—	
1973 5	15:25:39.17	LM	—	4	36.085	114.748	—	C	231	9.06	—	RWL	—		—		—		2.0	RWL	—		—	
1973 6	15:54:51.83		—	—	35.702	117.471	—	B	—	8.00*	—	PAS	—		1.1	BRP	2.4	PAS	—		—		—	
1973 7	8:11:16.78		—	—	36.369	117.857	—	B	—	8.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1973 11	5:49:27.31		—	—	36.009	117.717	—	B	—	8.00*	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1973 12	19: 0: 0.50	SIZ	—	—	36.900	116.000	—	A	—	5.00*	—	BRP	5	BRP	4.0	BRP	4.4	PDX	—		4.5	PDX	—	
1973 19	6:10:14.30		0.54	6	38.251	117.015	—		—	—	—	RYN	—		—		—		2.9	RYN	—		—	
1973 19	6:59:31.10		0.60	5	38.222	117.018	—		—	—	—	RYN	—		—		—		—		—		—	
1973 19	19:16: 1.40	SIZ	0.35	6	37.013	116.032	—		—	—	—	RYN	—		—		—		3.2	RYN	—		—	
1973 26	6:18:16.60	LM	—	—	36.100	114.600	—	A	—	5.00*	—	BRP	—		—		3.1	PDX	—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1974 JAN 25	22:42:19.10		0.50	7	37.436	117.323	—		—	—	—	RYN	—		—		—		—		—		—	
1974 FEB 4	7:47: 1.70		0.72	5	38.096	117.068	—		—	—	—	RYN	—		—		—		2.4	RYN	—		—	
1974 21	6:20:11.33		—	—	35.827	117.642	—	B	—	4.83	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1974 24	2:52:49.39		—	—	35.925	117.684	—	B	—	8.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1974 28	2:56: 0.00	CSNL	—	—	37.100	116.050	—		—	—	—	ISC	—		—		—		—		—		3.7	ISC
1974 MAR 12	16:53: 8.19		—	—	36.934	116.608	—	D	—	11.10	—	PAS	—		—		3.0	PAS	—		—		—	
1974 16	17:52:45.55		—	—	35.815	117.694	—	B	—	4.58	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1974 20	10:39:57.70		—	—	37.034	116.677	—	D	—	24.90	—	PAS	—		—		3.0	PAS	—		—		—	
1974 APR 5	0:27:31.80		0.25	5	37.688	114.837	—		—	—	—	RYN	—		—		—		3.8	RYN	—		—	
1974 11	20:28:47.50		0.15	7	37.880	117.793	—		—	—	—	RYN	—		—		—		2.3	RYN	—		—	
1974 15	11:29:43.68		—	—	38.146	117.974	—	D	—	8.00*	—	PAS	—		—		3.1	PAS	—		—		—	
1974 23	15:13: 0.11	SIZ	—	—	37.006	116.221	—		—	8.00*	—	GDY	—		—		3.6	PAS	—		—		3.4	GDY
1974 MAY 13	8:46:19.44		—	—	36.851	117.820	—		—	8.00*	—	GDY	—		—		2.3	PAS	—		—		2.3	GDY
1974 13	8:46:21.00		0.42	5	38.399	115.779	—		—	—	—	RYN	—		—		—		—		—		—	
1974 13	10:11:48.60		—	—	38.400	116.830	—		—	6.00*	—	ISC	—		—		2.4	ISC	—		—		—	
1974 13	15:37:15.10		0.10	6	38.337	117.161	—		—	—	—	RYN	—		—		—		—		—		—	
1974 19	20: 3: 4.48		—	—	35.896	117.725	—	B	—	0.88	—	PAS	1	BRP	2.0	BRP	3.1	PAS	—		—		—	
1974 19	21:54:43.86		—	—	35.868	117.756	—	B	—	3.61	—	PAS	—		0.8	BRP	2.2	PAS	—		—		—	
1974 19	21:58: 2.57		—	—	35.897	117.745	—	B	—	3.81	—	PAS	—		0.5	BRP	2.0	PAS	—		—		—	
1974 19	22: 9:14.89		—	—	35.897	117.726	—	B	—	2.91	—	PAS	—		0.8	BRP	2.2	PAS	—		—		—	
1974 19	22:58:57.85		—	—	35.922	117.748	—	B	—	0.64	—	PAS	—		0.7	BRP	2.1	PAS	—		—		—	
1974 19	23:43:37.59		—	—	35.902	117.740	—	B	—	4.34	—	PAS	—		0.8	BRP	2.2	PAS	—		—		—	
1974 20	0:16: 1.49		—	—	35.904	117.714	—	B	—	4.42	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1974 20	0:27:17.07		—	—	35.899	117.745	—	B	—	3.64	—	PAS	—		0.8	BRP	2.2	PAS	—		—		—	
1974 20	3:27:55.01		—	—	35.885	117.735	—	B	—	2.31	—	PAS	—		0.7	BRP	2.1	PAS	—		—		—	
1974 20	6: 3:20.04		—	—	35.898	117.742	—	B	—	3.54	—	PAS	—		0.8	BRP	2.2	PAS	—		—		—	
1974 20	6:25: 5.94		—	—	35.895	117.756	—	B	—	8.00*	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1974 20	21:50:18.37		—	—	35.867	117.760	—	B	—	4.06	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1974 22	14:15: 1.29	SIZ	—	—	37.072	116.091	—		—	8.00*	—	GDY	5	BRP	4.0	BRP	4.3	PDX	—		4.4	PDX	4.4	GDY
1974 23	16:41:52.01		—	—	35.602	117.068	—	B	—	3.78	—	PAS	—		1.2	BRP	2.5	PAS	—		—		—	
1974 26	16:33:13.07		—	—	36.400	117.908	—	C	—	3.14	—	PAS	—		0.5	BRP	2.0	PAS	—		—		—	
1974 29	18:10:40.76	SIZ	—	—	36.835	115.897	—		—	8.00*	—	GDY	—		—		3.9	PAS	—		—		4.0	GDY
1974 29	19:23:31.36	SIZ	—	—	36.972	115.836	—		—	8.00*	—	GDY	3	PDX	—		3.8	PAS	—		—		4.0	GDY
1974 31	3:43:22.26		—	—	35.837	117.516	—	B	—	8.95	—	PAS	1	BRP	—		3.1	PAS	—		—		—	
1974 JUN 1	4:36:18.60	SIZ	0.47	6	36.730	116.041	—		—	—	—	RYN	—		—		—		—		—		—	
1974 6	14:40: 0.00	SIZ	—	—	37.000	116.000	—	A	—	2.00*	—	BRP	5	BRP	4.0	BRP	—		—		4.4	PDX	—	
1974 11	4:55: 7.41		—	—	35.637	115.683	—		—	8.00*	—	GDY	1	BRP	—		3.8	PAS	—		—		3.8	GDY
1974 11	12:40:45.10		0.60	8	37.902	115.514	—		—	—	—	RYN	5	BRP	4.0	BRP	—		4.6	RYN	4.4	PDX	4.4	GDY
1974 11	12:41: 4.70		—	6	38.130	117.190	—		—	—	—	BRK	—		—		3.5	BRK	—		—		—	
1974 11	12:53: 8.15		—	—	37.595	115.296	—		—	8.00*	—	GDY	4	BRP	3.0	BRP	—		—		3.9	PDX	3.9	GDY
1974 JUL 5	11:28: 0.00		—	—	36.170	116.830	—		—	—	—	RYN	—		—		—		3.3	RYN	—		—	
1974 5	13:10:32.79		—	—	35.937	117.088	—		—	8.00*	—	GDY	1	BRP	2.2	BRP	3.3	PAS	—		—		3.3	GDY
1974 7	7:22:52.66		—	—	35.909	117.827	—		—	8.00*	—	GDY	1	BRP	—		3.4	PAS	—		—		3.4	GDY
1974 7	7:44:13.22		—	—	35.780	117.700	—	B	—	8.00*	—	PAS	—		0.9	BRP	2.3	PAS	—		—		—	
1974 8	17:26:45.71		—	—	35.760	117.706	—	B	—	3.16	—	PAS	—		1.7	BRP	2.9	PAS	—		—		—	
1974 10	21: 9:45.30	CSNL	—	10	37.276	116.354	—		—	—	—	ISC	—		—		—		—		—		—	
1974 15	6: 6:18.78		—	—	35.957	117.982	—	B	—	4.31	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1974 18	14: 0: 1.30	SIZ	—	—	37.100	116.100	—	A	—	5.00*	—	BRP	5	BRP	4.0	BRP	4.2	PDX	—		4.1	PDX	—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1974 JUL 22	23:51:55.85		—	—	35.769	117.665	—	B	—	5.24	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1974 23	0: 2:12.44		—	—	35.819	117.571	—	C	—	11.10	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1974 29	3: 8: 2.40		0.10	6	37.747	115.969	—		—	—	—	RYN	—		—		—		2.4	RYN	—		—	
1974 29	17:54:40.70		0.39	8	38.028	116.132	—		—	—	—	RYN	—		—		—		3.0	RYN	—		—	
1974 31	7:31:27.45		—	—	35.695	117.691	—		—	8.00*	—	GDY	1	BRP	—		3.3	PAS	—		—		4.0	GDY
1974 AUG 3	1:51:26.19		—	—	35.739	117.701	—	B	—	0.59	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1974 9	5: 1:49.80		0.44	6	38.193	117.840	—		—	—	—	RYN	—		—		—		2.7	RYN	—		—	
1974 21	16:57:46.70		0.86	9	38.482	117.820	—		—	—	—	RYN	—		—		—		3.3	RYN	—		—	
1974 25	10:10:59.53		—	—	35.855	117.662	—		—	8.00*	—	GDY	1	BRP	2.9	BRP	3.8	PAS	—		4.1	PDX	4.1	GDY
1974 25	12:21:58.45		—	—	35.876	117.691	—		—	8.00*	—	GDY	1	BRP	—		3.6	PAS	—		—		3.7	GDY
1974 26	8: 5:41.70		0.76	6	37.325	115.199	—		—	—	—	RYN	—		—		—		3.6	RYN	—		—	
1974 29	17:15:59.50		—	—	35.776	117.726	—	B	—	3.98	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1974 SEP 13	16:29:28.67		—	—	35.902	117.248	—	C	—	9.38	—	PAS	1	BRP	2.1	BRP	3.2	PAS	—		—		—	
1974 17	1:28:37.27		—	—	36.120	117.731	—	C	—	1.73	—	PAS	—		1.5	BRP	2.7	PAS	—		—		—	
1974 21	20:16:17.79		—	—	35.818	117.712	—	C	—	16.10	—	PAS	—		0.8	BRP	2.2	PAS	—		—		—	
1974 25	14: 0: 0.30	SIZ	—	—	37.000	116.000	—	A	—	5.00*	—	BRP	5	BRP	4.0	BRP	—		—		4.4	PDX	—	
1974 25	15: 2:35.90	CSNL	—	6	37.023	116.970	—		—	—	—	ISC	—		—		—		—		—		—	
1974 27	3:10:35.70		—	—	35.885	117.683	—	B	—	8.00*	—	PAS	—		1.3	BRP	2.6	PAS	—		—		—	
1974 OCT 4	17:43:10.27		—	—	35.908	117.243	—	B	—	1.59	—	PAS	—		1.8	BRP	3.0	PAS	—		—		—	
1974 5	12:15:54.59		—	—	35.951	117.790	—	B	—	8.00*	—	PAS	—		0.9	BRP	2.3	PAS	—		—		—	
1974 24	3:54:53.21		—	—	35.920	117.239	—	B	—	4.56	—	PAS	—		1.6	BRP	2.8	PAS	—		—		—	
1974 NOV 14	16:20:41.15		—	—	37.735	117.994	—	D	—	8.00*	—	PAS	—		—		4.0	PAS	—		—		—	
1974 18	6:43:51.96		—	—	35.684	117.576	—	B	—	7.11	—	PAS	2	BRP	—		3.2	PAS	—		—		—	
1974 18	14:27:54.18		—	—	37.672	117.800	—	D	—	8.00*	—	PAS	—		—		3.2	PAS	—		—		—	
1974 DEC 7	10: 8:30.66		—	—	37.138	117.839	—		—	8.00*	—	GDY	1	BRP	2.4	BRP	4.0	BRK	—		—		3.4	PAS
1974 9	4:58: 1.30		0.26	6	37.302	117.865	—		—	—	—	RYN	—		—		—		3.2	RYN	—		—	
1974 14	22:40: 6.96		—	—	36.580	116.634	—	D	—	0.50	—	PAS	—		0.8	BRP	2.2	PAS	—		—		—	
1974 16	17:30: 0.50	SIZ	—	—	36.900	116.000	—	A	—	5.00*	—	BRP	5	BRP	4.0	BRP	—		—		4.3	PDX	—	
1974 27	4:49:45.95	SIZ	—	—	36.971	116.155	—	D	—	8.00*	—	PAS	—		—		3.4	PAS	—		—		—	
1975 JAN 1	45:54:47.20		0.09	15	38.284	117.840	—	C	—	3.59	—	RYN	—		—		—		2.9	RYN	—		—	
1975 2	18:40:15.10		0.05	7	38.285	117.868	—	C	—	7.27	—	RYN	—		—		—		1.7	RYN	—		—	
1975 4	5:28:32.83		—	8	35.818	117.727	—	C	—	8.00*	—	PAS	—		—		2.4	PAS	—		—		—	
1975 9	12:15:40.36		—	5	36.798	116.256	—	C	—	5.92	—	PAS	—		—		2.9	PAS	—		—		—	
1975 14	3:36:29.49		—	8	35.963	117.233	—	C	—	4.64	—	PAS	—		—		2.4	PAS	—		—		—	
1975 14	10:59: 3.70		0.35	7	37.351	117.673	—		—	—	—	RYN	—		—		—		2.4	RYN	—		—	
1975 14	21:54:48.50		0.29	13	37.343	117.650	—		—	—	—	RYN	—		—		—		2.8	RYN	—		—	
1975 15	20:42:58.40		0.22	10	37.339	117.648	—		—	—	—	RYN	—		—		—		2.6	RYN	—		—	
1975 FEB 4	4:58:38.70		0.20	13	37.614	117.671	—	D	—	4.59	—	RYN	—		—		—		2.5	RYN	—		—	
1975 6	15:30: 2.60		1.54	4	37.259	115.909	—		—	—	—	RYN	—		—		3.5	PAS	—		—		—	
1975 6	16:13: 1.60	SIZ	—	26	37.052	116.001	—		—	16.00*	—	ISC	—		—		—		—		—		—	
1975 7	13: 0: 1.30		0.24	17	38.485	117.843	—	C	—	8.90	—	RYN	—		—		—		2.2	RYN	—		—	
1975 8	11:46:40.98		—	10	36.509	117.382	—	B	—	5.28	—	PAS	—		—		2.7	PAS	—		—		—	
1975 25	11:13:22.40		—	—	37.100	117.900	—		—	—	—	RYN	5	BRP	4.0	BRP	4.2	BRK	4.0	RYN	4.1	PDX	3.8	PAS
1975 27	23:38: 6.53		—	10	35.835	117.760	—	B	—	0.04	—	PAS	—		—		2.4	PAS	—		—		—	
1975 MAR 4	12: 6:18.23		—	9	35.842	116.751	—	C	—	8.00*	—	PAS	4	BRP	3.6	BRP	3.6	PAS	—		—		—	
1975 4	18:25:42.70		0.09	8	38.462	116.189	—		—	—	—	RYN	—		—		—		2.8	RYN	—		—	
1975 21	9:33:25.40		0.08	6	38.203	117.807	—	D	—	0.74	—	RYN	—		—		—		1.6	RYN	—		—	
1975 26	4:29:53.52		—	15	36.237	115.764	—	C	—	11.40	—	PAS	—		—		3.6	PAS	—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1975 MAR 26	4:30:54.70		—	—	36.100	115.700	—		—	—	—	RYN	4	BRP	3.4	BRP	—		3.4	RYN	—		—	
1975 28	21: 0: 9.66		—	11	36.130	117.852	—	B	—	8.00*	—	PAS	—		—		3.0	PAS	—		—		—	
1975 APR 5	10:11:34.30		0.11	16	38.281	117.926	—	C	—	9.23	—	RYN	—		—		—		2.7	RYN	—		—	
1975 6	8:53:18.40		0.15	17	38.284	117.914	—	C	—	9.44	—	RYN	—		—		—		2.0	RYN	—		—	
1975 13	18:30:25.20		0.51	6	38.479	116.180	—		—	—	—	RYN	—		—		—		2.9	RYN	—		—	
1975 18	17:46:57.55		—	6	36.118	117.802	—	C	—	6.64	—	PAS	—		—		2.5	PAS	—		—		—	
1975 MAY 4	0:14:18.25		—	12	36.201	117.927	—	B	—	4.23	—	PAS	—		—		2.8	PAS	—		—		—	
1975 6	19:36:52.60		0.12	14	38.112	117.446	—	D	—	2.47	—	RYN	—		—		—		2.3	RYN	—		—	
1975 15	12: 2:20.93	SIZ	—	8	37.238	116.328	—	B	—	11.50	—	PAS	—		—		3.3	PAS	—		—		—	
1975 19	6:36: 6.20		0.08	11	37.715	117.804	—	D	—	1.60	—	RYN	—		—		—		2.3	RYN	—		—	
1975 JUN 11	0:14:42.60		—	19	35.678	117.565	—	B	—	8.39	—	PAS	—		—		2.9	PAS	—		—		—	
1975 14	16:54:29.54		—	9	36.128	117.835	—	B	—	6.05	—	PAS	—		—		2.2	PAS	—		—		—	
1975 20	2:22:29.67		—	7	37.826	115.446	—	C	—	1.92	—	PAS	—		—		4.2	PAS	—		—		—	
1975 22	15:19:54.29		—	4	37.245	115.859	—	D	—	8.00*	—	PAS	—		—		2.4	PAS	—		—		—	
1975 26	22:32:45.99	SIZ	—	14	37.145	116.284	—	B	—	2.56	—	PAS	—		—		3.7	PAS	—		—		—	
1975 27	4:56:34.20		—	10	37.436	116.149	—	D	—	12.80	—	PAS	—		—		3.3	PAS	—		—		—	
1975 27	7:26:45.06	SIZ	—	15	37.161	116.322	—	B	—	0.46	—	PAS	5	BRP	—		3.9	PAS	—		4.6	PDX	—	
1975 27	11:46:52.01	SIZ	—	13	37.158	116.316	—	B	—	8.00*	—	PAS	—		—		3.9	PAS	—		—		—	
1975 28	0:18:56.28	SIZ	—	8	37.148	116.242	—	B	—	2.61	—	PAS	—		—		4.0	PAS	—		—		—	
1975 28	9:47:34.57	SIZ	—	11	37.171	116.290	—	C	—	0.42	—	PAS	5	BRP	—		4.1	PAS	—		4.4	PDX	—	
1975 29	0:21: 0.08	SIZ	—	6	37.161	116.235	—	C	—	1.22	—	PAS	—		—		3.8	PAS	—		—		—	
1975 30	9:12: 6.17	SIZ	—	9	37.221	116.172	—	C	—	8.00*	—	PAS	—		—		3.5	PAS	—		—		—	
1975 JUL 1	4:50:31.13		—	11	37.325	116.135	—	C	—	12.00*	—	PAS	5	BRP	—		4.1	PAS	—		4.5	PDX	—	
1975 1	17:10:45.66	SIZ	—	9	37.201	116.369	—	C	—	8.00*	—	PAS	—		—		3.6	PAS	—		—		—	
1975 1	18:14: 8.14		—	9	37.336	116.178	—	C	—	13.50	—	PAS	6	BRP	—		4.5	PAS	—		4.7	PDX	—	
1975 4	4:13:40.10		—	9	37.614	116.994	—		—	5.00*	—	ISC	—		—		—		—		—		—	
1975 5	5: 5:52.60		0.37	7	38.129	116.780	—		—	—	—	RYN	—		—		—		2.8	RYN	—		—	
1975 7	18:27:12.10	SIZ	—	—	37.150	116.100	—		—	—	—	RYN	—		—		—		3.4	RYN	—		—	
1975 10	7: 5:46.70		0.22	22	38.303	117.842	—	D	—	4.87	—	RYN	—		—		—		2.2	RYN	—		—	
1975 15	18:23:44.50		0.12	9	38.472	117.858	—	C	—	7.60	—	RYN	—		—		—		1.5	RYN	—		—	
1975 27	11:46:54.00		0.21	5	37.120	117.894	—		—	—	—	RYN	3	BRP	2.7	BRP	3.3	BRK	3.2	RYN	—		2.7	PAS
1975 27	11:48:37.90		—	6	37.200	118.000	—		—	—	—	BRK	—		—		3.3	BRK	—		—		—	
1975 27	12:48:37.18		—	13	37.113	117.905	—	B	—	3.29	—	PAS	3	BRP	2.9	BRP	2.9	PAS	—		—		—	
1975 28	11:53: 8.05		—	6	37.397	117.969	—	C	—	8.00*	—	PAS	—		—		2.9	PAS	—		—		—	
1975 AUG 17	6:44:34.90		0.05	4	37.602	117.119	—		—	—	—	RYN	—		—		—		2.5	RYN	—		—	
1975 17	16:34:39.29		—	8	36.112	117.783	—	B	—	4.22	—	PAS	—		—		2.2	PAS	—		—		—	
1975 19	18: 6: 5.61		—	8	36.212	117.865	—	B	—	6.74	—	PAS	—		—		2.6	PAS	—		—		—	
1975 20	4:37:38.50		—	4	36.154	117.137	—		—	3.00*	—	ISC	—		—		—		—		—		—	
1975 23	19:28: 9.00		0.15	20	37.597	117.951	—	D	—	0.85	—	RYN	—		—		—		2.5	RYN	—		—	
1975 25	2:27:16.00		0.18	30	37.749	117.790	—	D	—	1.97	—	RYN	—		—		—		2.7	RYN	—		—	
1975 30	21:11:59.51	SIZ	—	6	37.280	116.211	—	D	—	8.00*	—	PAS	—		—		3.0	PAS	—		—		—	
1975 SEP 1	19: 8:46.04		—	7	35.971	117.757	—	C	—	5.16	—	PAS	—		—		2.4	PAS	—		—		—	
1975 3	4: 6:11.53		—	6	35.954	117.753	—	C	—	9.49	—	PAS	—		—		2.3	PAS	—		—		—	
1975 3	4: 7: 1.25		—	6	35.859	117.792	—	C	—	8.00*	—	PAS	—		—		2.3	PAS	—		—		—	
1975 3	4:45:49.52		—	8	35.965	117.769	—	C	—	3.46	—	PAS	—		—		2.5	PAS	—		—		—	
1975 22	13:23:10.90		0.05	8	38.495	117.837	—	C	—	5.18	—	RYN	—		—		—		1.8	RYN	—		—	
1975 26	1:36:19.77		—	7	35.868	117.730	—	C	—	4.33	—	PAS	—		—		2.0	PAS	—		—		—	
1975 28	21:20: 2.72		—	8	36.136	117.977	—	B	—	3.05	—	PAS	—		—		2.5	PAS	—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1975 SEP 28	21:36:53.00		—	9	36.134	117.826	—	B	—	5.68	—	PAS	—		—		2.6	PAS	—		—		—	
1975 OCT 8	22: 8: 9.81		—	5	35.783	117.582	—	B	—	0.48	—	PAS	—		—		1.8	PAS	—		—		—	
1975 10	17:39: 7.01		—	11	35.856	117.598	—	C	—	8.00*	—	PAS	—		—		2.4	PAS	—		—		—	
1975 14	11:32:28.70		0.23	18	38.234	117.880	—	C	—	8.35	—	RYN	—		—		—		2.3	RYN	—		—	
1975 15	17:22:13.87		—	5	35.826	117.585	—	B	—	5.51	—	PAS	—		—		2.1	PAS	—		—		—	
1975 15	18:58:30.18		—	5	35.805	117.577	—	B	—	3.56	—	PAS	—		—		2.2	PAS	—		—		—	
1975 16	19:55:42.68		—	7	35.782	117.594	—	A	—	1.46	—	PAS	—		—		2.2	PAS	—		—		—	
1975 19	6: 4:45.30		0.30	8	38.195	116.758	—		—	—	—	RYN	—		—		—		2.9	RYN	—		3.5	RYN
1975 19	6: 8:55.10		0.08	6	38.075	116.649	—	D	—	0.56	—	RYN	—		—		—		3.0	RYN	—		—	
1975 23	23:15: 5.41		—	4	35.831	117.724	—	D	—	1.97	—	PAS	—		—		1.7	PAS	—		—		—	
1975 24	3: 2: 9.90		0.09	10	38.160	117.866	—	C	—	9.96	—	RYN	—		—		—		1.9	RYN	—		—	
1975 24	22:15:45.70		0.05	7	38.281	117.871	—	C	—	—	—	RYN	—		—		—		1.4	RYN	—		—	
1975 28	15:16:58.02	SIZ	0.09	10	37.292	116.414	0.7	B	134	12.17	—	ROW	—		—		—		3.6	ROW	—		—	
1975 28	15:41:34.00		0.04	4	37.115	116.398	—		—	—	—	RYN	5	BRP	3.2	BRP	—		4.0	RYN	—		—	
1975 28	16: 4:54.42	SIZ	0.07	8	37.287	116.418	0.5	C	131	4.76	—	ROW	—		—		—		3.1	ROW	—		—	
1975 28	16: 9:11.21	SIZ	0.13	12	37.311	116.408	0.7	C	83	5.33	—	ROW	—		—		—		2.8	ROW	—		—	
1975 28	16:10:10.02	SIZ	0.13	10	37.280	116.411	0.8	B	122	7.88	—	ROW	—		—		—		3.3	ROW	—		—	
1975 28	16:55: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1975 28	16:57: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1975 28	16:57:50.48	SIZ	0.29	10	37.282	116.410	2.1	C	97	0.24	—	ROW	—		—		—		3.2	ROW	—		—	
1975 28	17: 3: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1975 28	17:41:55.43	SIZ	0.24	8	37.323	116.392	2.2	B	96	10.53	—	ROW	—		—		—		3.1	ROW	—		—	
1975 28	18:27:24.74	SIZ	0.14	11	37.274	116.416	0.8	C	119	5.07	—	ROW	—		—		—		3.1	ROW	—		—	
1975 28	19:30: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1975 28	19:36:35.24	SIZ	0.07	11	37.281	116.437	0.4	B	80	5.13	—	ROW	—		—		—		3.2	ROW	—		—	
1975 28	20: 3: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 28	20:11:43.01	SIZ	0.09	12	37.280	116.418	0.5	B	86	9.24	—	ROW	—		—		—		2.9	ROW	—		—	
1975 28	20:48:12.48	SIZ	0.18	11	37.278	116.420	1.1	B	88	10.91	—	ROW	—		—		—		3.1	ROW	—		—	
1975 28	20:58: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1975 28	21:22: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1975 28	21:55:26.17	SIZ	0.08	8	37.280	116.431	0.8	C	120	3.54	—	ROW	—		—		—		3.3	ROW	—		—	
1975 28	22: 9: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 28	22:46: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 28	22:48:51.76	SIZ	0.09	12	37.290	116.412	0.5	B	77	4.38	—	ROW	—		—		—		3.1	ROW	—		—	
1975 28	22:50:43.25	SIZ	0.27	12	37.286	116.413	1.2	C	75	0.67	—	ROW	—		—		—		3.3	ROW	—		—	
1975 28	23: 9: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1975 28	23:10:55.50	SIZ	0.32	11	37.286	116.375	2.1	C	95	11.43	—	ROW	—		—		—		3.0	ROW	—		—	
1975 29	0: 1: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 29	4:45: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 29	4:49:44.35	SIZ	0.17	13	37.284	116.421	0.8	B	77	7.34	—	ROW	—		—		—		2.7	ROW	—		—	
1975 29	4:56: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 29	5: 2: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 29	5:33: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 29	5:37: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1975 29	6: 3: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1975 29	6:23: 5.90	SIZ	0.15	12	37.292	116.412	0.7	C	77	5.23	—	ROW	—		—		—		3.1	ROW	—		—	
1975 29	7:24:19.07	SIZ	0.18	12	37.288	116.428	1.0	B	84	10.31	—	ROW	—		—		—		2.7	ROW	—		—	
1975 29	7:31: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1975 OCT 29	7:31:30.47	SIZ	0.15	12	37.277	116.419	1.0	B	98	6.59	—	ROW	—		—		—		2.9	ROW	—		—	
1975 29	7:40: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1975 29	7:50:46.85	SIZ	0.11	12	37.300	116.431	0.6	A	85	10.02	—	ROW	—		—		—		3.0	ROW	—		—	
1975 29	8:18: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 29	9:22: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 29	9:40:35.04	SIZ	0.15	13	37.270	116.449	0.7	A	79	8.08	—	ROW	—		—		—		2.7	ROW	—		—	
1975 29	10:12:56.96	SIZ	0.20	12	37.298	116.416	1.0	B	80	5.60	—	ROW	—		—		—		2.8	ROW	—		—	
1975 29	10:56:30.47	SIZ	0.11	13	37.273	116.450	0.5	B	80	6.77	—	ROW	—		—		—		3.0	ROW	—		—	
1975 29	12:16:55.82	SIZ	0.16	12	37.296	116.429	0.9	B	83	11.29	—	ROW	—		—		—		2.6	ROW	—		—	
1975 29	15:10:45.96	SIZ	0.05	6	37.288	116.422	0.8	B	132	17.67	—	ROW	—		—		—		2.6	ROW	—		—	
1975 29	17: 9: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 29	21:19:37.50	SIZ	0.17	13	37.285	116.425	0.8	B	78	6.11	—	ROW	—		—		—		2.7	ROW	—		—	
1975 29	23:24: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1975 30	2:36: 4.46		—	4	37.300	117.529	—	D	—	20.50	—	PAS	—		—		2.4	PAS	—		—		—	
1975 30	3:56: 8.72	SIZ	0.15	13	37.274	116.413	0.7	B	72	6.08	—	ROW	—		—		—		2.6	ROW	—		—	
1975 30	4:34:12.02	SIZ	0.12	8	37.280	116.420	0.9	C	136	6.67	—	ROW	—		—		—		2.8	ROW	—		—	
1975 30	5: 3:20.21	SIZ	0.27	10	37.277	116.417	1.6	B	88	11.02	—	ROW	—		—		—		2.8	ROW	—		—	
1975 30	5:17: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1975 30	7:15:59.86	SIZ	0.16	10	37.299	116.428	1.0	B	84	8.90	—	ROW	—		—		—		3.2	ROW	—		—	
1975 30	7:42:11.48	SIZ	0.09	11	37.276	116.418	0.5	B	89	9.16	—	ROW	—		—		—		3.0	ROW	—		—	
1975 30	15:39: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1975 30	17:37: 8.69	SIZ	0.32	8	37.326	116.417	1.9	C	93	0.61	—	ROW	—		—		—		2.5	ROW	—		—	
1975 30	17:43: 7.91	SIZ	0.21	9	37.308	116.411	—	B	83	12.52	—	ROW	—		—		3.0	PAS	3.4	ROW	—		—	
1975 30	18:10: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1975 30	18:10:59.74	SIZ	0.07	9	37.314	116.426	0.4	B	90	6.17	—	ROW	—		—		—		2.8	ROW	—		—	
1975 31	0:52:18.42	SIZ	0.31	6	37.302	116.456	4.5	C	159	0.59	—	ROW	—		—		—		2.8	ROW	—		—	
1975 31	5:13: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 31	6:22: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 31	8:20: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.5	ROW	—		—	
1975 31	8:48: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 31	18: 9: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1975 31	19:52: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1975 31	20:52: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1975 31	20:56: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1975 31	23:29:52.93	SIZ	0.12	7	37.282	116.422	1.0	B	127	7.57	—	ROW	—		—		—		2.2	ROW	—		—	
1975 31	23:35: 4.50	SIZ	0.14	10	37.292	116.414	0.9	B	133	6.69	—	ROW	—		—		—		2.8	ROW	—		—	
1975 NOV 1	2:52:34.37	SIZ	0.18	11	37.280	116.421	1.0	B	87	8.23	—	ROW	—		—		—		3.2	ROW	—		—	
1975 1	3:42:14.50	SIZ	0.10	6	37.282	116.420	1.3	B	126	10.80	—	ROW	—		—		—		2.9	ROW	—		—	
1975 1	4:39: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1975 1	6:44: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 1	14:37:13.48	SIZ	0.34	9	37.313	116.397	2.3	B	81	11.83	—	ROW	—		—		—		3.2	ROW	—		—	
1975 2	9:38:44.07	SIZ	0.13	7	37.281	116.397	1.0	B	119	2.53	—	ROW	—		—		—		2.9	ROW	—		—	
1975 2	12:41: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1975 2	14:16: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1975 2	14:53: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1975 2	16:37:48.21	SIZ	0.13	9	37.293	116.417	0.9	B	121	6.94	—	ROW	—		—		—		2.9	ROW	—		—	
1975 2	16:56: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 2	17:17:22.38	SIZ	0.25	9	37.288	116.411	1.6	C	121	2.71	—	ROW	—		—		—		2.6	ROW	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1975 NOV 2	18:51: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.7	ROW	—		—	
1975 2	20: 2: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1975 2	20:33: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 2	21: 1:36.69	SIZ	0.40	10	37.283	116.409	2.9	C	121	2.15	—	ROW	—		—		—		3.2	ROW	—		—	
1975 2	21:28: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1975 2	21:41: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1975 2	23:21: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.5	ROW	—		—	
1975 2	23:24: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 2	23:34:47.09	SIZ	0.13	12	37.291	116.406	0.7	B	122	4.16	—	ROW	—		—		—		3.8	ROW	—		—	
1975 3	2:19:47.00	CPDX	—	30	37.290	116.411	—		—	—	—	PDX	—		—		4.7	PDX	—		4.5	PDX	—	
1975 3	2:20: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		4.9	ROW	—		—	
1975 3	6:39:46.77	SIZ	0.13	10	37.297	116.344	0.9	B	141	7.85	—	ROW	—		—		—		2.5	ROW	—		—	
1975 3	17:20:35.20	SIZ	0.17	10	37.315	116.414	1.3	C	142	9.23	—	ROW	—		—		—		3.0	ROW	—		—	
1975 4	9:36:30.19	SIZ	0.09	10	37.281	116.424	0.7	B	129	12.11	—	ROW	—		—		—		2.8	ROW	—		—	
1975 4	11:34:18.97	SIZ	0.10	10	37.288	116.420	0.7	B	132	9.50	—	ROW	—		—		—		2.8	ROW	—		—	
1975 4	18:12: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 6	12:53:49.71	SIZ	0.11	9	37.275	116.581	1.1	C	172	1.60	—	ROW	—		—		—		2.5	ROW	—		—	
1975 8	3:45:57.33	SIZ	0.16	8	37.088	116.034	2.1	C	212	0.34	—	ROW	—		—		—		2.8	ROW	—		—	
1975 9	4:52:11.11	SIZ	0.08	8	37.301	116.427	0.7	B	136	11.59	—	ROW	—		—		—		2.7	ROW	—		—	
1975 9	7:24: 9.93	SIZ	0.10	8	37.302	116.423	0.8	B	137	9.88	—	ROW	—		—		—		2.4	ROW	—		—	
1975 10	7:31:40.97	SIZ	0.08	6	37.302	116.414	0.9	C	137	4.86	—	ROW	—		—		—		2.5	ROW	—		—	
1975 14	18:49:51.31	SIZ	0.09	8	37.299	116.434	0.8	B	135	13.10	—	ROW	—		—		—		3.2	ROW	—		—	
1975 14	18:57:35.33	SIZ	0.12	7	37.320	116.422	1.3	C	143	7.69	—	ROW	—		—		—		2.5	ROW	—		—	
1975 16	12:38: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 18	15:30: 0.30	SIZ	—	—	36.990	116.030	—	X	—	5.00*	—	BRP	5	BRP	4.1	BRP	3.8	PDX	—		4.4	PDX	—	
1975 18	16:23: 0.00	SIZ	—	—	37.290	116.411	—		—	0.00*	—	ROW*	—		—		—		3.9	ROW	—		—	
1975 20	10:59:19.90	SIZ	0.11	9	37.288	116.437	0.7	B	85	8.12	—	ROW	—		—		—		2.5	ROW	—		—	
1975 20	16:22: 0.00	SIZ	—	—	37.225	116.368	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1975 20	17:47:52.94	SIZ	0.24	10	37.233	116.357	1.3	B	85	3.04	—	ROW	—		—		—		3.1	ROW	—		—	
1975 20	17:49: 0.00	SIZ	—	—	37.225	116.368	—		—	0.00*	—	ROW*	—		—		—		3.5	ROW	—		—	
1975 20	18:42: 0.00	SIZ	—	—	37.225	116.368	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1975 20	19:44: 3.05	SIZ	0.14	11	37.223	116.353	0.8	A	85	2.97	—	ROW	—		—		—		3.4	ROW	—		—	
1975 20	20:17: 0.00	SIZ	—	—	37.225	116.368	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1975 20	20:38:38.46	SIZ	0.22	11	37.231	116.358	1.2	B	64	8.16	—	ROW	—		—		—		3.8	ROW	—		—	
1975 20	21: 3: 0.00	SIZ	—	—	37.225	116.368	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1975 20	21:16: 0.00	SIZ	—	—	37.225	116.368	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1975 20	21:33: 0.00	SIZ	—	—	37.225	116.368	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1975 20	21:44: 0.00	SIZ	—	—	37.225	116.368	—		—	0.00*	—	ROW*	—		—		—		3.5	ROW	—		—	
1975 20	22:10: 0.00	SIZ	—	—	37.225	116.368	—		—	0.00*	—	ROW*	—		—		—		3.6	ROW	—		—	
1975 20	22:18: 0.00	SIZ	—	—	37.225	116.368	—		—	0.00*	—	ROW*	—		—		—		4.2	ROW	—		—	
1975 20	23:11: 1.38	SIZ	0.26	9	37.235	116.376	1.7	C	111	5.65	—	ROW	—		—		—		—		—		—	
1975 20	23:14: 0.00	SIZ	—	—	37.225	116.368	—		—	0.00*	—	ROW*	—		—		—		4.3	ROW	—		—	
1975 21	4: 1: 8.86	SIZ	0.23	11	37.215	116.375	1.2	B	72	3.85	—	ROW	—		—		—		2.9	ROW	—		—	
1975 21	15: 7:16.33	SIZ	0.10	11	37.223	116.351	0.5	A	66	4.97	—	ROW	—		—		—		3.5	ROW	—		—	
1975 21	15:22:20.14	SIZ	0.17	12	37.230	116.344	0.8	B	63	5.55	—	ROW	—		—		—		3.5	ROW	—		—	
1975 23	7:28: 1.07	SIZ	0.12	12	37.310	116.420	0.7	A	86	11.12	—	ROW	—		—		—		2.9	ROW	—		—	
1975 23	23:21:15.23	SIZ	0.17	9	37.225	116.378	0.9	B	95	1.93	—	ROW	—		—		—		2.6	ROW	—		—	
1975 23	23:49:27.20	SIZ	0.11	11	37.229	116.347	0.6	A	82	5.09	—	ROW	—		—		—		2.7	ROW	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1975 NOV 25	1:37:18.90		0.06	4	37.949	116.330	—		—	—	—	RYN	—		—		—		2.0	RYN	—		—	
1975 26	16:35: 0.00	SIZ	—	—	37.117	116.019	—		—	0.00*	—	ROW*	—		—		—		4.0	ROW	—		—	
1975 DEC 2	2:15:47.03	SIZ	0.09	8	37.214	116.336	0.6	B	107	4.91	—	ROW	—		—		—		3.1	ROW	—		—	
1975 2	8: 6:13.92	SIZ	0.11	9	37.233	116.352	0.7	A	83	3.89	—	ROW	—		—		—		2.8	ROW	—		—	
1975 12	23:31:43.18		—	8	35.992	117.749	—	B	—	4.29	—	PAS	—		—		2.5	PAS	—		—		—	
1975 12	23:36: 3.90		—	9	35.978	117.772	—	B	—	5.05	—	PAS	—		—		2.4	PAS	—		—		—	
1975 13	0:38:43.98		—	8	35.986	117.755	—	B	—	7.37	—	PAS	—		—		2.6	PAS	—		—		—	
1975 13	4:17:19.13		—	8	35.979	117.760	—	B	—	8.00*	—	PAS	—		—		2.6	PAS	—		—		—	
1975 13	5:24:36.41		—	11	36.011	117.620	—	B	—	6.10	—	PAS	—		—		2.6	PAS	—		—		—	
1975 13	6:20: 3.33		—	8	36.014	117.762	—	B	—	10.80	—	PAS	—		—		2.2	PAS	—		—		—	
1975 15	21:49: 0.00	SIZ	—	—	37.117	116.019	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1975 16	14:18:19.80	SIZ	0.19	11	37.225	116.365	0.9	B	89	5.24	—	ROW	—		—		—		3.0	ROW	—		—	
1975 19	5: 2: 0.40		—	—	36.000	117.617	—		—	—	—	RYN	4	BRP	3.9	BRP	3.9	PAS	4.2	RYN	—		—	
1975 20	5: 9: 3.15		—	8	36.005	117.571	—	C	—	5.87	—	PAS	—		—		2.5	PAS	—		—		—	
1975 20	6:54:58.38		—	8	36.000	117.590	—	C	—	5.87	—	PAS	—		—		2.8	PAS	—		—		—	
1975 20	11:23:43.52		—	8	36.000	117.634	—	C	—	3.48	—	PAS	—		—		2.4	PAS	—		—		—	
1975 22	3:55: 5.60		—	11	35.998	117.606	—	B	—	6.24	—	PAS	—		—		2.7	PAS	—		—		—	
1975 22	6:54:58.40		—	—	36.000	117.580	—		—	6.00*	—	ISC	—		—		2.8	ISC	—		—		—	
1975 23	10:31:18.74	SIZ	0.14	9	37.212	116.371	0.8	B	94	2.85	—	ROW	—		—		—		2.6	ROW	—		—	
1975 28	18:13:28.39		—	7	35.818	117.612	—	C	—	12.80	—	PAS	—		—		2.1	PAS	—		—		—	
1976 JAN 3	20:17: 6.38	SIZ	0.12	7	37.311	116.314	1.0	C	126	1.05	—	ROW	—		—		—		3.3	ROW	—		—	
1976 3	20:40:31.29	SIZ	0.06	8	37.292	116.349	0.4	B	118	8.96	—	ROW	—		—		—		3.3	ROW	—		—	
1976 3	21: 0:38.39	SIZ	0.15	9	37.319	116.333	0.9	C	93	4.98	—	ROW	—		—		—		3.5	ROW	—		—	
1976 3	22: 3: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 3	22:10: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1976 3	22:20:25.00	CPDX	—	10	37.297	116.333	—		—	—	—	PDX	—		—		3.6	PDX	—		—		—	
1976 3	23: 8: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 3	23:21: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 3	23:24:54.24	SIZ	0.12	6	37.301	116.315	1.1	C	109	4.79	—	ROW	—		—		—		3.2	ROW	—		—	
1976 3	23:31:16.11	SIZ	0.10	8	37.308	116.288	0.8	B	134	6.38	—	ROW	—		—		—		3.0	ROW	—		—	
1976 3	23:39:45.85	SIZ	0.01	5	37.310	116.294	0.1	C	135	7.86	—	ROW	—		—		—		2.7	ROW	—		—	
1976 3	23:41:40.80	SIZ	0.07	7	37.319	116.324	1.0	C	214	10.37	—	ROW	—		—		—		2.3	ROW	—		—	
1976 3	23:53: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 3	23:55: 7.06	SIZ	0.05	7	37.297	116.326	0.4	B	98	8.23	—	ROW	—		—		—		3.2	ROW	—		—	
1976 4	0: 5:19.88	SIZ	0.15	10	37.341	116.321	1.8	B	123	11.85	—	ROW	—		—		—		4.0	ROW	—		—	
1976 4	0: 9:42.83	SIZ	0.15	8	37.296	116.291	1.1	B	98	6.17	—	ROW	—		—		—		3.2	ROW	—		—	
1976 4	0:19: 2.26	SIZ	0.16	6	37.314	116.322	1.5	B	83	7.36	—	ROW	—		—		—		3.0	ROW	—		—	
1976 4	0:22: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 4	1:15:39.53	SIZ	0.07	8	37.298	116.316	0.5	B	106	4.30	—	ROW	—		—		—		3.2	ROW	—		—	
1976 4	1:18:18.78	SIZ	0.14	12	37.329	116.330	—	A	78	8.29	—	ROW	5	BRP	4.5	BRP	—		4.0	ROW	4.1	PDX	—	
1976 4	1:22:24.83	SIZ	0.04	6	37.335	116.323	1.0	B	120	6.49	—	ROW	—		—		—		2.7	ROW	—		—	
1976 4	2: 0: 4.25	SIZ	0.10	9	37.335	116.324	0.8	B	118	8.31	—	ROW	—		—		—		2.9	ROW	—		—	
1976 4	2:29: 1.87	SIZ	0.13	8	37.295	116.313	0.8	B	87	3.66	—	ROW	—		—		—		2.8	ROW	—		—	
1976 4	2:33:23.69	SIZ	0.16	7	37.313	116.312	1.7	B	119	4.50	—	ROW	—		—		—		3.1	ROW	—		—	
1976 4	3:16:51.84	SIZ	0.10	6	37.306	116.313	1.0	B	112	4.10	—	ROW	—		—		—		2.9	ROW	—		—	
1976 4	3:23:24.70	CPDX	—	7	37.297	116.333	—		—	—	—	PDX	—		—		—		—		—		—	
1976 4	6:48:43.51	SIZ	0.12	11	37.297	116.320	0.6	B	83	3.60	—	ROW	—		—		—		3.1	ROW	—		—	
1976 4	6:58:50.43	SIZ	0.11	9	37.327	116.313	0.8	B	126	8.58	—	ROW	—		—		—		3.5	ROW	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1976 JAN 4	8: 5: 4.57	SIZ	0.14	9	37.318	116.312	0.8	B	91	7.14	—	ROW	—		—		—		3.0	ROW	—		—	
1976 4	8:48:44.70	SIZ	0.04	8	37.294	116.322	0.2	B	82	2.89	—	ROW	—		—		—		3.2	ROW	—		—	
1976 4	9:22:23.39	SIZ	0.28	9	37.304	116.343	1.6	C	71	7.25	—	ROW	—		—		—		3.2	ROW	—		—	
1976 4	10:47: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 4	11:14:37.90	SIZ	0.04	6	37.309	116.339	0.5	B	117	13.03	—	ROW	—		—		—		3.1	ROW	—		—	
1976 4	11:29:40.27	SIZ	0.12	8	37.303	116.325	1.1	C	179	8.55	—	ROW	—		—		—		3.1	ROW	—		—	
1976 4	12:44: 3.94	SIZ	0.14	11	37.295	116.350	0.8	A	68	10.20	—	ROW	—		—		—		3.5	ROW	—		—	
1976 4	12:47:24.32	SIZ	0.09	7	37.303	116.295	0.8	B	130	3.86	—	ROW	—		—		—		3.5	ROW	—		—	
1976 4	14:12:34.95	SIZ	0.15	10	37.301	116.297	0.8	B	96	6.69	—	ROW	—		—		—		3.3	ROW	—		—	
1976 4	14:51:59.61	SIZ	0.12	9	37.313	116.298	0.8	B	98	4.45	—	ROW	—		—		—		3.4	ROW	—		—	
1976 4	15:29: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 4	16:16: 9.00	CPDX	—	14	37.297	116.333	—		—	—	—	PDX	—		—		4.2	PDX	—		4.2	PDX	—	
1976 4	16:27: 6.71	SIZ	0.18	11	37.304	116.328	0.9	B	80	2.73	—	ROW	—		—		—		3.0	ROW	—		—	
1976 4	16:56:30.51	SIZ	0.12	11	37.331	116.326	0.7	A	81	9.02	—	ROW	—		—		—		3.7	ROW	—		—	
1976 4	17:39:28.17	SIZ	0.02	6	37.301	116.341	0.2	B	117	9.91	—	ROW	—		—		—		3.1	ROW	—		—	
1976 4	18:22: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 4	18:48: 4.91	SIZ	0.08	6	37.323	116.309	1.0	B	128	7.59	—	ROW	—		—		—		3.4	ROW	—		—	
1976 4	19:13:50.63	SIZ	0.05	9	37.333	116.327	0.3	A	80	9.84	—	ROW	—		—		—		2.7	ROW	—		—	
1976 4	20:33:24.88	SIZ	0.06	9	37.299	116.319	0.4	B	105	4.16	—	ROW	—		—		—		3.1	ROW	—		—	
1976 5	0:35:33.83	SIZ	0.13	7	37.321	116.313	1.0	C	90	4.98	—	ROW	—		—		—		3.0	ROW	—		—	
1976 5	3:39: 3.21	SIZ	0.14	11	37.316	116.313	0.8	B	89	7.19	—	ROW	—		—		—		2.9	ROW	—		—	
1976 5	12:18:17.07	SIZ	0.11	9	37.289	116.329	0.7	B	93	11.81	—	ROW	—		—		—		3.0	ROW	—		—	
1976 5	12:44:55.83	SIZ	0.12	10	37.316	116.310	0.6	B	92	4.33	—	ROW	—		—		—		2.9	ROW	—		—	
1976 5	14:19:44.12	SIZ	0.23	10	37.322	116.295	1.3	B	103	7.65	—	ROW	—		—		—		3.0	ROW	—		—	
1976 5	14:57:43.61	SIZ	0.13	10	37.295	116.313	0.7	C	87	5.29	—	ROW	—		—		3.2	PAS	3.5	ROW	—		—	
1976 5	18:21: 2.08	SIZ	0.16	10	37.298	116.320	0.8	B	83	4.10	—	ROW	—		—		3.0	PAS	3.4	ROW	—		—	
1976 5	21: 2: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.6	ROW	—		—	
1976 5	21: 2:52.96	SIZ	—	8	37.251	116.198	—	C	—	0.94	—	PAS	—		—		3.1	PAS	—		—		—	
1976 6	2:53:12.13	SIZ	0.10	8	37.332	116.314	0.6	B	91	3.43	—	ROW	—		—		—		2.9	ROW	—		—	
1976 6	3: 9:20.16	SIZ	0.13	9	37.301	116.339	—	A	73	10.11	—	ROW	—		—		3.0	PAS	3.5	ROW	—		—	
1976 6	3:14: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 6	5:15:14.94	SIZ	0.06	6	37.329	116.315	0.8	B	125	7.91	—	ROW	—		—		—		3.2	ROW	—		—	
1976 6	12:40:42.71	SIZ	0.10	10	37.275	116.405	0.6	B	86	8.78	—	ROW	—		—		—		3.5	ROW	—		—	
1976 6	16:55: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.5	ROW	—		—	
1976 7	0:30:41.66	SIZ	0.09	8	37.298	116.323	0.5	B	95	4.21	—	ROW	—		—		—		3.5	ROW	—		—	
1976 7	1: 2: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 7	2:33: 5.49	SIZ	0.12	11	37.295	116.312	0.6	B	87	5.81	—	ROW	—		—		—		3.4	ROW	—		—	
1976 7	6:52:47.19	SIZ	0.14	8	37.294	116.319	0.8	B	84	3.32	—	ROW	—		—		—		3.0	ROW	—		—	
1976 7	11:43:40.98	SIZ	0.11	9	37.295	116.316	0.6	B	90	4.04	—	ROW	—		—		—		3.0	ROW	—		—	
1976 7	14: 5:13.25	SIZ	0.13	9	37.303	116.305	0.8	B	92	4.45	—	ROW	—		—		—		3.0	ROW	—		—	
1976 7	17:51:11.05	SIZ	0.09	6	37.298	116.323	0.8	B	95	3.27	—	ROW	—		—		—		3.0	ROW	—		—	
1976 7	18: 4: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.5	ROW	—		—	
1976 7	22:41: 6.94	SIZ	0.02	5	37.300	116.335	0.3	C	144	5.97	—	ROW	—		—		—		3.5	ROW	—		—	
1976 7	23:24:24.88	SIZ	0.12	7	37.296	116.326	0.9	B	157	3.83	—	ROW	—		—		—		3.0	ROW	—		—	
1976 8	3:14:12.80	SIZ	0.10	7	37.299	116.332	0.9	C	162	4.72	—	ROW	—		—		3.2	PAS	3.5	ROW	—		—	
1976 8	8:56: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 8	9: 5: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 8	11:29:34.28	SIZ	0.15	6	37.310	116.306	2.6	C	121	11.14	—	ROW	—		—		—		3.4	ROW	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1976 JAN 8	12:51: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.7	ROW	—		—	
1976 8	12:51:45.75		—	8	37.415	116.046	—	D	—	8.00*	—	PAS	—		—		3.4	PAS	—		—		—	
1976 8	12:58: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1976 8	12:58:48.87		—	6	37.382	116.000	—	D	—	16.20	—	PAS	—		—		3.1	PAS	—		—		—	
1976 8	13: 0: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 8	13:10:28.95	SIZ	0.12	7	37.297	116.325	0.8	B	95	3.64	—	ROW	—		—		—		3.2	ROW	—		—	
1976 8	13:35: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.8	ROW	—		—	
1976 8	13:35:29.84	SIZ	—	11	37.290	116.046	—	C	—	8.00*	—	PAS	—		—		3.4	PAS	—		—		—	
1976 8	15:41: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1976 8	16: 1: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 8	16:14: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.8	ROW	—		—	
1976 8	16:14:19.90	SIZ	—	9	37.310	116.360	—		—	—	—	BRK	5	BRP	4.3	BRP	4.6	BRK	—		4.5	PDX	4.5	PAS
1976 8	20:18:17.19	SIZ	0.04	6	37.290	116.329	0.4	B	95	6.78	—	ROW	—		—		—		2.9	ROW	—		—	
1976 9	11:35:14.08	SIZ	0.10	7	37.304	116.334	1.3	B	104	13.12	—	ROW	—		—		—		3.4	ROW	—		—	
1976 9	11:36:51.68	SIZ	0.05	7	37.304	116.342	0.4	B	108	4.50	—	ROW	—		—		—		3.2	ROW	—		—	
1976 9	11:45:11.80	SIZ	0.39	12	37.288	116.353	—		—	6.50	—	RYN	—		—		3.2	PAS	3.1	RYN	—		—	
1976 9	11:46:47.90	SIZ	0.17	7	37.247	116.360	—		—	17.50	—	RYN	—		—		—		2.8	RYN	—		—	
1976 10	4:40:49.35	SIZ	0.11	9	37.292	116.338	0.8	A	89	12.87	—	ROW	—		—		—		3.0	ROW	—		—	
1976 12	22:59:51.80		0.22	8	38.208	116.968	—		—	6.20	—	RYN	—		—		—		4.0	RYN	—		—	
1976 13	6:47:36.21	SIZ	0.08	8	37.336	116.326	0.7	B	81	4.72	—	ROW	—		—		—		2.7	ROW	—		—	
1976 13	14:43:46.80	SIZ	0.47	9	37.275	116.254	—		—	8.30	—	RYN	—		—		3.3	PAS	3.5	RYN	—		—	
1976 13	23:43:31.50		0.28	8	38.212	116.957	—		—	—	—	RYN	—		—		—		4.0	RYN	—		—	
1976 14	0:42:48.24	SIZ	0.04	8	37.305	116.336	0.4	B	105	10.17	—	ROW	—		—		—		2.6	ROW	—		—	
1976 14	6:48:12.32	SIZ	0.08	8	37.301	116.325	0.8	B	102	9.42	—	ROW	—		—		—		2.8	ROW	—		—	
1976 15	3:17:10.57	SIZ	0.07	7	37.295	116.330	0.6	B	95	9.90	—	ROW	—		—		—		2.9	ROW	—		—	
1976 17	9:51:47.97	SIZ	0.12	7	37.284	116.371	0.8	B	74	3.82	—	ROW	—		—		—		3.1	ROW	—		—	
1976 17	21:39:33.05	SIZ	0.27	9	37.259	116.316	—	C	227	0.34	—	ROW	5	BRP	4.3	BRP	4.3	BRK	4.0	ROW	—		4.1	PAS
1976 17	22:36:31.38	SIZ	0.08	11	37.297	116.342	0.6	B	117	10.72	—	ROW	—		—		—		3.0	ROW	—		—	
1976 18	7:20:17.13	SIZ	0.14	12	37.298	116.334	—	B	94	14.06	—	ROW	5	BRP	4.4	BRP	4.4	BRK	4.0	ROW	4.4	PDX	4.0	PAS
1976 18	7:51:45.40	SIZ	0.41	10	37.261	116.336	—		—	4.20	—	RYN	—		—		—		1.5	RYN	—		—	
1976 18	7:52: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 18	8:11:51.05	SIZ	0.22	10	37.306	116.342	1.3	B	92	7.38	—	ROW	—		—		—		3.3	ROW	—		—	
1976 19	22:20: 0.80		0.34	8	38.194	117.010	—		—	7.40	—	RYN	—		—		—		1.6	RYN	—		—	
1976 20	2:43:58.94	SIZ	0.11	9	37.320	116.334	0.8	B	104	9.62	—	ROW	—		—		3.3	PAS	3.4	ROW	—		—	
1976 20	2:50:25.20	SIZ	0.15	10	37.318	116.333	1.0	B	104	6.30	—	ROW	—		—		—		2.8	ROW	—		—	
1976 20	3:18:15.94	SIZ	0.06	9	37.324	116.330	0.4	B	109	6.52	—	ROW	—		—		—		3.0	ROW	—		—	
1976 20	3:29:56.04	SIZ	0.11	10	37.320	116.336	0.7	B	102	8.60	—	ROW	—		—		—		3.0	ROW	—		—	
1976 20	3:37:18.71	SIZ	0.15	10	37.331	116.331	1.0	B	110	8.87	—	ROW	—		—		—		3.2	ROW	—		—	
1976 20	3:43:32.73	SIZ	0.07	7	37.328	116.334	0.8	B	114	7.91	—	ROW	—		—		3.1	PAS	3.4	ROW	—		—	
1976 20	5:35:11.32	SIZ	0.08	11	37.299	116.339	0.5	B	92	12.40	—	ROW	—		—		—		3.0	ROW	—		—	
1976 20	10:37:28.26	SIZ	0.10	10	37.297	116.339	0.7	B	91	11.62	—	ROW	—		—		—		—		—		—	
1976 20	10:38: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 22	9:57:14.10		0.28	13	38.286	117.747	—	C	—	6.45	—	RYN	—		—		—		2.5	RYN	—		—	
1976 23	23:30: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 23	23:30:37.69	SIZ	0.19	10	37.299	116.343	1.2	B	90	9.87	—	ROW	—		—		—		3.0	ROW	—		—	
1976 24	5: 3:47.01		—	29	35.639	117.496	—	C	—	6.75	—	PAS	3	BRP	3.2	BRP	3.2	PAS	—		—		—	
1976 24	6:54: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 24	6:54:42.59	SIZ	0.15	10	37.343	116.322	1.1	B	122	9.49	—	ROW	—		—		—		3.0	ROW	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1976 JAN 24	7: 2: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 24	7: 2:15.84	SIZ	0.09	10	37.329	116.325	0.5	B	116	4.05	—	ROW	—		—		—		2.7	ROW	—		—	
1976 26	3:26:11.00	SIZ	0.09	8	37.308	116.335	0.7	B	106	7.58	—	ROW	—		—		—		2.5	ROW	—		—	
1976 26	9: 2:54.63		—	11	36.120	117.863	—	C	—	5.12	—	PAS	—		—		2.8	PAS	—		—		—	
1976 28	1:12:24.89		—	9	35.826	117.898	—	C	—	3.76	—	PAS	—		—		2.6	PAS	—		—		—	
1976 28	4:52:54.16		—	8	35.851	117.894	—	B	—	5.05	—	PAS	3	BRP	3.1	BRP	3.3	PAS	—		—		—	
1976 29	3:58: 8.62	SIZ	0.08	8	37.335	116.329	0.7	B	116	5.00	—	ROW	—		—		—		3.0	ROW	—		—	
1976 29	9:22:54.38		0.09	7	36.715	116.355	0.8	B	124	3.76	—	ROW	—		—		—		2.2	ROW	—		—	
1976 30	12:54:42.11		0.43	12	36.829	115.775	2.3	C	103	6.35	—	ROW	—		—		—		2.4	ROW	—		—	
1976 FEB 1	15:17: 5.31	SIZ	0.17	12	37.339	116.303	1.0	B	104	8.79	—	ROW	—		—		—		2.9	ROW	—		—	
1976 3	0:14:27.27	SIZ	0.22	13	37.307	116.344	—	B	92	6.54	—	ROW	5	BRP	4.0	BRP	4.2	BRK	3.7	ROW	—		4.0	PAS
1976 3	0:31:11.15	SIZ	0.09	12	37.303	116.338	0.5	B	94	9.96	—	ROW	—		—		—		2.7	ROW	—		—	
1976 3	5:46:30.75	SIZ	0.11	12	37.301	116.338	0.6	B	94	11.18	—	ROW	—		—		—		3.0	ROW	—		—	
1976 3	11:13: 2.30	SIZ	0.08	10	37.304	116.338	0.5	B	95	10.58	—	ROW	—		—		—		3.4	ROW	—		—	
1976 3	12:29:47.31	SIZ	0.22	11	37.305	116.362	1.3	B	80	10.09	—	ROW	—		—		—		3.1	ROW	—		—	
1976 3	12:42:27.02	SIZ	0.09	11	37.308	116.339	0.6	B	96	10.03	—	ROW	—		—		—		2.7	ROW	—		—	
1976 3	20:53:41.62	SIZ	0.12	11	37.311	116.337	0.8	B	98	10.34	—	ROW	—		—		—		3.0	ROW	—		—	
1976 4	6:51:46.82	SIZ	0.17	13	37.304	116.340	0.9	B	73	13.97	—	ROW	4	BRP	3.7	BRP	4.2	BRK	3.9	ROW	—		3.8	PAS
1976 4	7:33: 0.00	SIZ	—	—	37.297	116.333	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 4	19:43: 0.00	SIZ	—	—	37.107	116.037	—		—	0.00*	—	ROW*	—		—		—		3.8	ROW	—		—	
1976 4	20: 9: 0.00	SIZ	—	—	37.107	116.037	—		—	0.00*	—	ROW*	—		—		—		4.3	ROW	—		—	
1976 5	8:32:46.40		0.08	16	38.263	117.850	—	C	—	2.03	—	RYN	—		—		—		2.5	RYN	—		—	
1976 5	22:43:14.29	SIZ	0.14	11	37.310	116.333	0.8	A	77	10.45	—	ROW	—		—		—		3.1	ROW	—		—	
1976 6	1:14:23.89	SIZ	0.11	11	37.299	116.339	—	B	92	12.89	—	ROW	5	BRP	4.2	BRP	4.0	BRK	3.9	ROW	—		3.8	PAS
1976 6	1:20: 0.00	SIZ	—	—	37.107	116.037	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 6	1:41: 0.00	SIZ	—	—	37.107	116.037	—		—	0.00*	—	ROW*	—		—		—		3.8	ROW	—		—	
1976 6	1:41:12.35	SIZ	—	10	37.230	116.299	—	D	—	1.52	—	PAS	4	BRP	2.5	BRP	3.6	PAS	—		—		—	
1976 7	7:36:55.31	SIZ	0.14	10	37.309	116.335	—	B	107	14.52	—	ROW	5	BRP	4.3	BRP	4.8	BRK	3.8	ROW	4.3	PDX	4.6	PAS
1976 7	15: 3:20.85	SIZ	0.21	12	37.322	116.283	1.5	B	120	4.76	—	ROW	—		—		—		2.9	ROW	—		—	
1976 8	2:35:36.93	SIZ	0.17	9	37.313	116.336	1.5	B	109	8.55	—	ROW	—		—		—		2.7	ROW	—		—	
1976 8	2:50:48.09	SIZ	0.13	10	37.289	116.344	0.9	B	102	8.15	—	ROW	—		—		—		2.5	ROW	—		—	
1976 8	4:17:53.33	SIZ	0.16	10	37.311	116.336	1.2	B	108	7.69	—	ROW	—		—		—		2.8	ROW	—		—	
1976 8	8:51:49.10	SIZ	0.10	9	37.305	116.338	0.9	B	106	10.62	—	ROW	—		—		—		3.0	ROW	—		—	
1976 8	14:34:28.70	SIZ	0.06	9	37.294	116.345	0.6	B	106	12.17	—	ROW	—		—		—		2.9	ROW	—		—	
1976 10	1: 7:12.55	SIZ	0.13	9	37.344	116.313	1.0	B	96	4.50	—	ROW	—		—		—		2.8	ROW	—		—	
1976 11	1:29:25.10	SIZ	0.11	10	37.306	116.341	0.8	B	93	12.97	—	ROW	—		—		—		3.2	ROW	—		—	
1976 11	1:32:38.29	SIZ	0.10	9	37.299	116.353	0.9	B	144	10.60	—	ROW	—		—		—		3.3	ROW	—		—	
1976 12	16:23: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.7	ROW	—		—	
1976 12	16:33: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.6	ROW	—		—	
1976 12	16:52:24.64	SIZ	0.13	9	37.280	116.483	1.2	B	102	12.56	—	ROW	—		—		—		4.2	ROW	—		—	
1976 12	17: 6: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 12	17:14: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.6	ROW	—		—	
1976 12	17:19:36.30	SIZ	0.32	9	37.295	116.487	2.7	C	102	9.87	—	ROW	—		—		—		3.4	ROW	—		—	
1976 12	17:37:29.00	CPDX	—	17	37.271	116.488	—		—	—	—	PDX	—		—		4.3	PDX	—		4.8	PDX	—	
1976 12	17:44: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.6	ROW	—		—	
1976 12	17:47: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 12	17:52: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 12	18:18:42.12	SIZ	0.22	12	37.251	116.490	1.2	B	90	3.72	—	ROW	—		—		—		2.6	ROW	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1976 FEB 12	18:23:18.04	SIZ	0.19	12	37.247	116.524	1.1	B	105	7.84	—	ROW	—		—		—		3.1	ROW	—		—	
1976 12	19: 1:16.01	SIZ	0.19	12	37.270	116.514	1.1	B	90	4.18	—	ROW	—		—		—		3.2	ROW	—		—	
1976 12	19:26: 2.27	SIZ	0.07	7	37.256	116.519	0.7	B	166	6.67	—	ROW	—		—		—		3.4	ROW	—		—	
1976 12	21:50: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1976 12	22:56: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 13	1:27: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1976 13	2: 4:57.25	SIZ	0.22	11	37.265	116.503	1.3	B	86	5.86	—	ROW	—		—		—		3.2	ROW	—		—	
1976 13	5:14: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 13	5:24: 2.72	SIZ	0.14	11	37.272	116.498	0.9	A	87	4.48	—	ROW	—		—		—		2.6	ROW	—		—	
1976 13	5:56: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 13	7:52:19.33	SIZ	0.17	11	37.258	116.504	1.1	B	96	8.55	—	ROW	4	BRP	2.5	BRP	3.5	BRP	3.9	ROW	—		—	
1976 13	11:40: 5.47	SIZ	0.06	6	37.250	116.492	1.3	C	154	3.48	—	ROW	—		—		—		3.3	ROW	—		—	
1976 13	14:54: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 13	16:37:35.71	SIZ	0.16	11	37.282	116.507	0.9	B	91	6.19	—	ROW	—		—		3.0	PAS	3.4	ROW	—		—	
1976 13	17:11: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 13	17:11:16.35	SIZ	—	5	37.298	116.450	—	D	—	8.00*	—	PAS	—		—		2.9	PAS	—		—		—	
1976 13	20: 5:23.93	SIZ	0.16	9	37.270	116.505	1.1	B	87	5.72	—	ROW	—		—		—		3.1	ROW	—		—	
1976 13	23:22:31.97	SIZ	0.13	11	37.262	116.512	0.8	B	100	6.19	—	ROW	—		—		—		3.3	ROW	—		—	
1976 14	2:23: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 14	3: 7:59.03	SIZ	0.17	11	37.300	116.368	0.9	B	90	8.70	—	ROW	—		—		—		2.6	ROW	—		—	
1976 14	3:54: 0.00	SIZ	—	—	37.271	116.488	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 14	4:19:53.36	SIZ	0.17	11	37.285	116.503	1.2	B	105	5.58	—	ROW	—		—		—		2.7	ROW	—		—	
1976 14	7:18: 5.47	SIZ	0.11	12	37.254	116.511	0.6	B	104	5.56	—	ROW	—		—		—		2.8	ROW	—		—	
1976 14	14:37:33.04	SIZ	0.05	10	37.234	116.420	0.3	B	74	6.68	—	ROW	—		—		—		3.5	ROW	—		—	
1976 14	14:49: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 14	15:23: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 14	15:23:49.82	SIZ	0.10	12	37.238	116.429	0.5	B	74	7.69	—	ROW	—		—		—		2.8	ROW	—		—	
1976 14	15:56: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 14	21:16: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 14	21:42: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.5	ROW	—		—	
1976 14	22:26: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 14	23: 0:28.56	SIZ	0.13	11	37.249	116.494	0.6	B	95	3.34	—	ROW	—		—		—		3.9	ROW	—		—	
1976 14	23:15: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 14	23:44: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 15	2:48: 1.75	SIZ	0.09	11	37.230	116.423	0.5	C	98	4.96	—	ROW	—		—		—		3.8	ROW	—		—	
1976 15	3:10: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1976 15	3:28: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 15	3:46: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 15	3:52:58.30	CSNL	—	9	37.464	116.577	—		—	—	—	ISC	—		—		—		—		—		—	
1976 15	5: 9:55.97	SIZ	0.13	10	37.294	116.340	0.9	B	91	10.27	—	ROW	—		—		—		2.7	ROW	—		—	
1976 15	6:24: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 16	4:42: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 16	6:58: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 16	6:58:28.95	SIZ	0.17	10	37.233	116.422	1.0	B	75	6.12	—	ROW	—		—		—		2.7	ROW	—		—	
1976 16	9:19:13.56	SIZ	0.12	9	37.235	116.428	—	B	134	9.18	—	ROW	—		—		2.9	PAS	3.2	ROW	—		—	
1976 17	7:51:14.79	SIZ	0.20	9	37.291	116.477	1.4	B	90	6.24	—	ROW	—		—		—		2.9	ROW	—		—	
1976 17	13: 1:53.27	SIZ	0.14	11	37.267	116.511	0.8	B	91	6.46	—	ROW	—		—		—		2.9	ROW	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1976 FEB 17	21:57:45.69	SIZ	0.15	10	37.243	116.510	1.0	B	104	6.22	—	ROW	—		—		—		3.8	ROW	—		—	
1976 17	23:18:17.02	SIZ	0.09	8	37.250	116.527	—	B	167	6.78	—	ROW	5	BRP	4.3	BRP	4.2	BRK	3.8	ROW	4.0	POX	3.8	PAS
1976 17	23:44:14.20	SIZ	0.14	9	37.254	116.522	1.2	C	167	8.19	—	ROW	—		—		—		3.4	ROW	—		—	
1976 18	3:23: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 18	10:38: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 18	10:48: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 18	12:41: 3.88	SIZ	0.12	9	37.239	116.512	0.9	B	104	6.44	—	ROW	—		—		—		3.1	ROW	—		—	
1976 18	17:54: 0.00	SIZ	—	—	37.243	116.420	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 19	8: 4:31.23	SIZ	0.18	9	37.243	116.510	1.1	B	104	0.04	—	ROW	—		—		—		3.1	ROW	—		—	
1976 19	16:44: 4.61	SIZ	0.15	8	37.252	116.515	1.1	B	104	6.62	—	ROW	—		—		—		3.3	ROW	—		—	
1976 19	17: 1: 1.38		—	9	36.254	117.606	—	D	—	4.12	—	PAS	4	BRP	3.9	BRP	3.9	PAS	—		—		4.2	BRK
1976 19	20:58:17.18		—	6	36.193	117.609	—	D	—	5.12	—	PAS	—		—		2.6	PAS	—		—		—	
1976 19	22:13: 4.58		—	7	36.185	117.619	—	C	—	5.95	—	PAS	—		—		2.7	PAS	—		—		—	
1976 19	22:47:59.51		—	7	36.210	117.586	—	C	—	5.90	—	PAS	—		—		2.6	PAS	—		—		—	
1976 20	0:20:49.19		—	9	36.216	117.742	—	D	—	8.00*	—	PAS	—		—		2.9	PAS	—		—		—	
1976 20	1: 0:13.15		—	8	36.208	117.598	—	D	—	4.04	—	PAS	—		—		2.5	PAS	—		—		—	
1976 20	14:54:51.21	SIZ	0.12	9	37.253	116.508	0.9	B	104	4.96	—	ROW	—		—		—		3.2	ROW	—		—	
1976 20	17:13:50.20		0.50	11	38.116	114.980	—		—	—	—	RYN	—		—		2.9	PAS	3.6	RYN	—		—	
1976 20	19:25:31.30		—	6	36.211	117.578	—	D	—	4.02	—	PAS	—		—		2.2	PAS	—		—		—	
1976 21	9:46:32.79		—	7	36.200	117.598	—	D	—	4.55	—	PAS	—		—		2.3	PAS	—		—		—	
1976 21	10:27:40.87		—	9	36.200	117.637	—	C	—	3.93	—	PAS	—		—		2.4	PAS	—		—		—	
1976 21	11:16: 1.47		—	9	36.174	117.648	—	C	—	4.30	—	PAS	—		—		2.4	PAS	—		—		—	
1976 21	16:34: 5.90	SIZ	0.17	10	37.269	116.513	1.1	B	90	6.61	—	ROW	—		—		—		3.0	ROW	—		—	
1976 23	4:51:34.25	SIZ	0.21	11	37.251	116.518	1.3	B	104	6.54	—	ROW	—		—		—		3.0	ROW	—		—	
1976 23	7: 6:13.96	SIZ	0.11	9	37.244	116.477	1.2	C	178	12.81	—	ROW	—		—		2.9	PAS	3.7	ROW	—		—	
1976 23	9:38:58.28		—	12	36.188	117.598	—	C	—	8.00*	—	PAS	—		—		3.0	PAS	—		—		—	
1976 23	14:44:33.19	SIZ	0.13	8	37.245	116.523	1.2	C	167	7.40	—	ROW	—		—		3.0	PAS	3.4	ROW	—		—	
1976 24	22:41:41.42		—	8	36.209	117.598	—	D	—	3.63	—	PAS	—		—		2.3	PAS	—		—		—	
1976 25	18:14: 7.53	SIZ	0.10	10	37.298	116.339	0.6	B	104	4.29	—	ROW	—		—		—		2.8	ROW	—		—	
1976 26	14:49:59.90	SIZ	—	14	37.010	115.970	—		—	—	—	BRK	5	BRP	4.1	BRP	4.1	BRK	—		4.2	POX	—	
1976 26	21:35:35.15		—	6	35.703	117.588	—	C	—	4.23	—	PAS	—		—		2.4	PAS	—		—		—	
1976 26	22:52:53.78	SIZ	0.36	10	37.263	116.404	2.1	C	106	4.33	—	ROW	—		—		—		2.6	ROW	—		—	
1976 28	23:26:13.44	SIZ	0.29	10	37.295	116.513	1.9	B	96	7.15	—	ROW	—		—		—		2.7	ROW	—		—	
1976 MAR 1	15: 7:48.02		—	6	35.657	117.715	—	D	—	12.30	—	PAS	—		—		2.1	PAS	—		—		—	
1976 3	2: 3:59.55	SIZ	0.12	9	37.309	116.339	0.9	B	96	11.79	—	ROW	—		—		—		2.9	ROW	—		—	
1976 3	7:32: 6.50		0.17	6	37.028	116.396	—		—	10.60	—	RYN	—		—		3.2	PAS	3.2	RYN	—		—	
1976 3	13:14:18.16	SIZ	0.17	10	37.298	116.337	1.1	B	93	9.75	—	ROW	—		—		3.4	PAS	3.7	ROW	—		—	
1976 3	13:47:28.59	SIZ	0.07	6	37.317	116.337	0.8	B	100	11.08	—	ROW	—		—		—		2.5	ROW	—		—	
1976 4	14: 3:17.62		—	6	36.225	117.894	—	C	—	12.00*	—	PAS	—		—		2.0	PAS	—		—		—	
1976 6	12:17: 8.56		—	12	35.895	117.801	—	C	—	3.23	—	PAS	3	BRP	1.8	BRP	3.0	PAS	—		—		—	
1976 7	11:58: 5.00		0.18	14	38.285	117.833	—	D	—	3.43	—	RYN	—		—		—		2.6	RYN	—		—	
1976 7	18:18: 7.49	SIZ	0.14	10	37.271	116.516	0.9	A	89	6.75	—	ROW	—		—		—		2.7	ROW	—		—	
1976 7	19:20:42.45	SIZ	0.12	10	37.270	116.515	0.8	B	91	6.53	—	ROW	—		—		—		—		—		—	
1976 8	0:40:13.96	SIZ	0.09	9	37.287	116.561	0.6	C	107	5.85	—	ROW	—		—		—		3.1	ROW	—		—	
1976 8	2:31:11.38	SIZ	0.13	11	37.241	116.511	0.8	B	104	4.77	—	ROW	—		—		2.7	PAS	3.3	ROW	—		—	
1976 8	9:13:18.91	SIZ	0.14	11	37.215	116.493	0.9	B	103	8.80	—	ROW	—		—		—		2.9	ROW	—		—	
1976 9	14:34: 0.00	SIZ	—	—	37.310	116.364	—		—	0.00*	—	ROW*	—		—		—		3.6	ROW	—		—	
1976 9	14:39: 0.00	SIZ	—	—	37.310	116.364	—		—	0.00*	—	ROW*	—		—		—		3.5	ROW	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1976 MAR 9	14:51: 0.81	SIZ	0.16	9	37.325	116.360	1.3	C	152	6.26	—	ROW	—		—		—		3.1	ROW	—		—	
1976 9	14:56: 0.00	SIZ	—	—	37.310	116.364	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 9	14:56: 0.00	SIZ	—	—	37.310	116.364	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1976 9	14:59:38.79	SIZ	0.19	9	37.342	116.359	1.2	B	82	5.81	—	ROW	—		—		—		3.4	ROW	—		—	
1976 9	15: 9: 0.00	SIZ	—	—	37.310	116.364	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 9	15:12: 0.00	SIZ	—	—	37.310	116.364	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 9	15:17:12.00	SIZ	0.09	10	37.317	116.358	0.6	B	85	5.89	—	ROW	—		—		—		—		—		—	
1976 9	16:33: 0.00	SIZ	—	—	37.310	116.364	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1976 9	16:41:49.02	SIZ	0.20	9	37.308	116.370	1.1	C	76	1.05	—	ROW	—		—		—		3.1	ROW	—		—	
1976 9	16:55: 2.00	CPDX	—	13	37.310	116.364	—		—	—	—	PDX	—		—		4.0	PDX	—		4.1	PDX	—	
1976 9	17:31: 5.14	SIZ	0.24	12	37.316	116.341	1.2	B	71	4.19	—	ROW	—		—		—		3.2	ROW	—		—	
1976 9	18:39:33.38	SIZ	0.11	12	37.321	116.353	0.5	B	63	3.20	—	ROW	—		—		—		2.8	ROW	—		—	
1976 9	20:54: 5.43	SIZ	0.25	9	37.335	116.300	—	C	141	0.31	—	ROW	5	BRP	4.1	BRP	4.2	BRK	4.1	ROW	4.1	PDX	—	
1976 9	21: 3:47.86	SIZ	0.10	12	37.328	116.320	0.5	B	86	4.07	—	ROW	—		—		—		3.2	ROW	—		—	
1976 9	21:41:18.61	SIZ	0.15	10	37.329	116.324	0.8	B	83	3.32	—	ROW	—		—		—		2.8	ROW	—		—	
1976 10	1:37:58.67	SIZ	0.12	8	37.306	116.338	0.9	B	74	7.40	—	ROW	—		—		—		2.8	ROW	—		—	
1976 10	4:28:32.35	SIZ	0.18	9	37.338	116.323	1.3	B	84	9.05	—	ROW	—		—		—		3.2	ROW	—		—	
1976 10	12:41: 5.63	SIZ	0.19	7	37.321	116.335	1.3	B	112	3.24	—	ROW	—		—		3.0	PAS	3.4	ROW	—		—	
1976 10	16:31:11.27		—	10	35.901	117.267	—	D	—	8.00*	—	PAS	—		—		2.3	PAS	—		—		—	
1976 10	16:51: 0.00	SIZ	—	—	37.310	116.364	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 10	22:45:20.59	SIZ	0.19	8	37.327	116.367	1.6	B	83	10.40	—	ROW	—		—		—		3.2	ROW	—		—	
1976 11	1:24:21.32	SIZ	0.10	9	37.316	116.358	0.8	B	126	8.12	—	ROW	—		—		—		3.1	ROW	—		—	
1976 11	1:43:42.84	SIZ	0.12	11	37.269	116.514	0.8	B	91	6.17	—	ROW	—		—		—		2.9	ROW	—		—	
1976 11	15:15: 9.28	SIZ	0.29	8	37.350	116.366	2.3	B	88	10.77	—	ROW	—		—		—		2.8	ROW	—		—	
1976 11	19:26: 0.00	SIZ	—	—	37.310	116.364	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1976 12	4:52:18.14	SIZ	0.14	7	37.292	116.557	1.5	C	168	10.12	—	ROW	—		—		—		2.6	ROW	—		—	
1976 12	5:39: 6.82	SIZ	0.15	8	37.267	116.518	1.2	B	101	7.19	—	ROW	—		—		—		3.0	ROW	—		—	
1976 12	22:35:49.09	SIZ	0.12	10	37.267	116.520	0.8	B	104	6.72	—	ROW	—		—		—		3.2	ROW	—		—	
1976 13	4:46:57.46	SIZ	0.15	10	37.322	116.315	0.8	B	89	4.15	—	ROW	—		—		—		2.9	ROW	—		—	
1976 13	9:48:34.59		—	8	36.008	117.895	—	C	—	5.40	—	PAS	—		—		2.2	PAS	—		—		—	
1976 13	14:16:35.35	SIZ	0.14	9	37.271	116.551	1.8	C	249	11.71	—	ROW	—		—		—		3.1	ROW	—		—	
1976 13	20:32:59.37	SIZ	0.18	7	37.271	116.488	2.5	C	162	13.20	—	ROW	—		—		—		2.6	ROW	—		—	
1976 14	13: 6: 0.00	SIZ	—	—	37.306	116.471	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 14	13:10: 0.00	SIZ	—	—	37.306	116.471	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1976 14	13:43: 0.00	SIZ	—	—	37.306	116.471	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 14	13:52:42.50	CPDX	—	10	37.306	116.471	—		—	—	—	PDX	—		—		—		—		—		—	
1976 14	14: 9:52.00	CPDX	—	14	37.306	116.471	—		—	—	—	PDX	—		—		—		—		4.3	PDX	—	
1976 14	14:18:15.00	CPDX	—	16	37.306	116.471	—		—	—	—	PDX	—		—		—		—		4.2	PDX	—	
1976 14	14:59:22.20	CPDX	—	11	37.306	116.471	—		—	—	—	PDX	—		—		—		—		4.3	PDX	—	
1976 14	15: 6: 0.00	SIZ	—	—	37.306	116.471	—		—	0.00*	—	ROW*	—		—		—		3.7	ROW	—		—	
1976 14	15: 8: 0.00	SIZ	—	—	37.306	116.471	—		—	0.00*	—	ROW*	—		—		—		3.9	ROW	—		—	
1976 14	15:24: 0.00	SIZ	—	—	37.306	116.471	—		—	0.00*	—	ROW*	—		—		—		4.6	ROW	—		—	
1976 14	15:24:28.80	CPDX	—	21	37.306	116.471	—		—	—	—	PDX	—		—		4.7	PDX	—		4.1	PDX	—	
1976 14	15:30: 0.00	SIZ	—	—	37.306	116.471	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 14	16:22:34.01	SIZ	0.18	12	37.295	116.479	1.0	B	92	6.55	—	ROW	—		—		—		3.3	ROW	—		—	
1976 14	18:18:13.46	SIZ	0.30	10	37.317	116.486	1.8	C	100	1.56	—	ROW	—		—		—		2.6	ROW	—		—	
1976 14	19:12:23.80	SIZ	0.34	12	37.326	116.487	1.8	C	104	0.21	—	ROW	—		—		—		2.8	ROW	—		—	
1976 14	19:27:52.40	SIZ	0.13	13	37.291	116.473	0.7	A	90	6.27	—	ROW	3	BRP	3.0	BRP	—		3.8	ROW	3.9	PDX	—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1976 MAR 14	19:38:35.83	SIZ	0.13	11	37.274	116.514	0.8	A	89	6.96	—	ROW	—		—		—		2.9	ROW	—		—	
1976 14	22:18:42.02	SIZ	0.26	8	37.322	116.483	1.8	B	102	3.17	—	ROW	—		—		—		2.5	ROW	—		—	
1976 15	0:16:12.95	SIZ	0.13	12	37.284	116.458	0.7	A	85	7.86	—	ROW	—		—		—		3.4	ROW	—		—	
1976 15	0:48: 0.00	SIZ	—	—	37.306	116.471	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 15	3:14: 0.00	SIZ	—	—	37.306	116.471	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 15	4:55:59.77	SIZ	0.14	11	37.287	116.459	0.8	A	86	8.72	—	ROW	—		—		—		3.0	ROW	—		—	
1976 15	7: 3:39.79	SIZ	0.08	8	37.317	116.499	0.6	B	103	6.56	—	ROW	—		—		—		2.7	ROW	—		—	
1976 15	12:20:36.37	SIZ	0.18	10	37.300	116.347	1.1	B	69	10.30	—	ROW	—		—		—		2.7	ROW	—		—	
1976 15	13:27:26.51	SIZ	0.33	10	37.319	116.477	1.8	C	100	2.50	—	ROW	—		—		—		2.7	ROW	—		—	
1976 15	22:50:59.15	SIZ	0.16	13	37.289	116.452	0.8	B	85	9.22	—	ROW	—		—		—		2.7	ROW	—		—	
1976 15	22:57:13.09	SIZ	0.13	8	37.312	116.475	0.8	B	97	3.05	—	ROW	—		—		—		2.8	ROW	—		—	
1976 15	23: 3: 5.77	SIZ	0.23	12	37.302	116.491	1.0	B	95	0.83	—	ROW	—		—		—		3.2	ROW	—		—	
1976 16	10: 0:33.94		—	16	36.189	117.559	—	B	—	8.00*	—	PAS	4	BRP	3.6	BRP	3.6	PAS	—		—		3.9	PDX
1976 16	13:33:11.01		—	10	36.226	117.568	—	C	—	8.00*	—	PAS	—		—		2.5	PAS	—		—		—	
1976 16	14:47:24.04		—	7	36.183	117.616	—	C	—	5.47	—	PAS	—		—		2.1	PAS	—		—		—	
1976 16	18: 5:53.53	SIZ	0.16	11	37.294	116.512	1.1	B	95	4.94	—	ROW	—		—		—		2.5	ROW	—		—	
1976 16	19:43:15.05		—	10	36.186	117.631	—	C	—	3.98	—	PAS	—		—		2.1	PAS	—		—		—	
1976 16	21:51:57.87	SIZ	0.14	8	37.311	116.484	1.0	B	98	5.78	—	ROW	—		—		—		2.8	ROW	—		—	
1976 16	22:57:30.55	SIZ	0.13	12	37.300	116.459	0.7	B	90	7.75	—	ROW	—		—		—		2.6	ROW	—		—	
1976 17	3:17:53.34		—	12	36.157	117.646	—	C	—	3.63	—	PAS	—		—		2.6	PAS	—		—		—	
1976 17	13: 1:38.97		—	7	36.186	117.605	—	C	—	7.44	—	PAS	—		—		2.2	PAS	—		—		—	
1976 17	15:59: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.7	ROW	—		—	
1976 17	16: 6: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 17	16:14: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 17	16:16: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 17	16:30: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.6	ROW	—		—	
1976 17	16:36: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 17	16:39: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.5	ROW	—		—	
1976 17	16:51: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1976 17	17: 8:47.57	SIZ	0.15	9	37.247	116.317	0.9	B	75	3.55	—	ROW	—		—		—		3.1	ROW	—		—	
1976 17	17:16: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1976 17	17:35: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 17	18: 0: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.8	ROW	—		—	
1976 17	18: 5: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.6	ROW	—		—	
1976 17	18:40: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1976 17	20:10: 4.75	SIZ	0.15	12	37.257	116.310	0.7	A	80	4.00	—	ROW	—		—		—		2.8	ROW	—		—	
1976 17	20:23: 7.08	SIZ	0.29	12	37.259	116.501	1.6	B	91	6.07	—	ROW	—		—		—		2.9	ROW	—		—	
1976 17	23:16: 4.80	SIZ	0.10	6	37.238	116.312	1.0	B	101	4.45	—	ROW	—		—		—		3.5	ROW	—		—	
1976 17	23:26:39.17	SIZ	0.23	12	37.252	116.327	1.0	B	74	3.41	—	ROW	—		—		—		3.3	ROW	—		—	
1976 18	1:12:26.75	SIZ	0.32	6	37.239	116.307	2.7	C	109	0.42	—	ROW	—		—		—		2.6	ROW	—		—	
1976 18	3: 4:37.00	SIZ	0.12	12	37.243	116.314	0.5	A	71	4.10	—	ROW	—		—		—		3.1	ROW	—		—	
1976 18	4:45:49.27		—	8	35.699	117.577	—	C	—	6.24	—	PAS	—		—		1.9	PAS	—		—		—	
1976 18	5:26: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 18	5:30:54.71	SIZ	0.33	9	37.289	116.288	1.7	C	98	0.99	—	ROW	—		—		—		3.2	ROW	—		—	
1976 18	9:37: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 18	16:41:47.38	SIZ	0.23	8	37.242	116.286	1.5	B	72	5.74	—	ROW	—		—		—		3.3	ROW	—		—	
1976 18	17: 7: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 18	17:18:59.04	SIZ	0.08	12	37.249	116.315	0.4	A	74	5.19	—	ROW	—		—		—		3.2	ROW	—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1976 MAR 18	17:47: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 18	17:52: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 18	21: 8: 4.87	SIZ	0.13	9	37.247	116.312	0.7	A	88	4.24	—	ROW	—		—		—		2.9	ROW	—		—	
1976 18	21:33:51.92	SIZ	0.27	7	37.256	116.327	1.9	B	97	2.59	—	ROW	—		—		—		3.0	ROW	—		—	
1976 18	23: 3: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 19	1:20:53.90	SIZ	0.28	9	37.265	116.319	1.2	B	95	0.51	—	ROW	—		—		—		3.3	ROW	—		—	
1976 19	4:54: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1976 19	5:31: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.3	ROW	—		—	
1976 19	5:47: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1976 19	5:50: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 19	5:51: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.2	ROW	—		—	
1976 19	6: 0: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 19	6: 8:34.56	SIZ	0.22	9	37.243	116.319	1.3	B	80	4.36	—	ROW	—		—		—		3.4	ROW	—		—	
1976 19	6:14: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 19	6:21:51.74	SIZ	0.11	9	37.238	116.311	0.6	A	82	3.56	—	ROW	—		—		—		3.8	ROW	—		—	
1976 19	7: 9: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 19	7:32: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.1	ROW	—		—	
1976 19	7:47: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.4	ROW	—		—	
1976 19	8:17: 3.20	SIZ	—	—	37.200	116.580	—	X	—	5.00*	—	BRP	5	BRP	4.0	BRP	—		—		4.1	PDX	—	
1976 19	10:33:11.49	SIZ	0.19	11	37.253	116.322	1.0	B	80	4.19	—	ROW	—		—		—		2.8	ROW	—		—	
1976 20	1:56:39.82	SIZ	0.38	9	37.345	116.491	2.6	C	112	3.55	—	ROW	—		—		—		2.7	ROW	—		—	
1976 20	6:23: 3.34	SIZ	0.20	13	37.275	116.511	—	B	89	7.49	—	ROW	5	BRP	4.0	BRP	3.6	PAS	3.9	ROW	4.0	PDX	—	
1976 20	6:35:11.16	SIZ	0.24	9	37.273	116.517	2.0	C	145	6.32	—	ROW	—		—		—		2.9	ROW	—		—	
1976 20	6:36:16.12	SIZ	0.20	11	37.277	116.510	1.2	B	90	5.57	—	ROW	—		—		—		3.0	ROW	—		—	
1976 20	7:36:39.45	SIZ	0.19	11	37.332	116.314	1.2	B	91	4.26	—	ROW	—		—		—		3.0	ROW	—		—	
1976 20	7:48:48.56	SIZ	0.23	11	37.276	116.521	1.4	B	90	0.35	—	ROW	—		—		—		3.1	ROW	—		—	
1976 20	8:36:27.64	SIZ	0.12	10	37.270	116.527	0.9	B	165	7.90	—	ROW	—		—		—		2.8	ROW	—		—	
1976 20	14:30:32.72	SIZ	0.16	12	37.277	116.507	1.0	B	89	5.37	—	ROW	—		—		—		3.0	ROW	—		—	
1976 20	20:31:51.62	SIZ	0.14	10	37.283	116.510	1.0	B	106	6.48	—	ROW	—		—		—		2.5	ROW	—		—	
1976 20	21:15:19.34		—	10	36.192	117.614	—	B	—	4.04	—	PAS	—		—		2.9	PAS	—		—		—	
1976 21	3:59:44.37	SIZ	0.15	11	37.275	116.510	0.9	B	89	6.75	—	ROW	—		—		2.8	PAS	3.0	ROW	—		—	
1976 21	4: 1: 5.67	SIZ	0.12	6	37.280	116.504	3.1	C	137	5.46	—	ROW	—		—		—		2.7	ROW	—		—	
1976 21	4:54: 0.76	SIZ	0.12	10	37.291	116.458	0.8	A	87	11.10	—	ROW	—		—		—		2.6	ROW	—		—	
1976 21	5:22:31.00	SIZ	0.24	11	37.277	116.497	1.4	B	88	5.53	—	ROW	—		—		—		2.8	ROW	—		—	
1976 21	16:15:42.87	SIZ	0.21	12	37.301	116.352	1.1	B	66	7.94	—	ROW	—		—		—		2.7	ROW	—		—	
1976 22	4:38:58.65		—	9	37.201	117.377	—	C	—	8.00*	—	PAS	—		—		2.7	PAS	—		—		—	
1976 23	2:48: 4.90	SIZ	0.23	12	37.296	116.348	1.2	B	69	6.26	—	ROW	5	BRP	4.4	BRP	3.6	PAS	3.6	ROW	—		4.4	PDX
1976 23	4:25:30.63	SIZ	0.19	12	37.319	116.338	1.0	B	73	10.27	—	ROW	—		—		—		2.8	ROW	—		—	
1976 23	5:56:56.38	SIZ	0.15	12	37.292	116.337	0.8	B	75	7.96	—	ROW	—		—		—		2.9	ROW	—		—	
1976 23	19:51:53.18		—	7	36.181	117.650	—	C	—	1.59	—	PAS	—		—		2.3	PAS	—		—		—	
1976 24	20:23:43.97	SIZ	0.16	11	37.273	116.323	0.8	B	81	4.89	—	ROW	—		—		—		2.8	ROW	—		—	
1976 25	13:30:18.48	SIZ	0.41	12	37.224	116.316	1.9	B	62	6.26	—	ROW	—		—		—		3.5	ROW	—		—	
1976 25	13:36: 0.00	SIZ	—	—	37.107	116.052	—		—	0.00*	—	ROW*	—		—		—		3.0	ROW	—		—	
1976 28	2:48: 7.45	SIZ	—	7	37.169	116.299	—	C	—	11.60	—	PAS	—		—		3.6	PAS	—		—		—	
1976 31	11:52:26.56	SIZ	0.24	14	37.244	116.498	1.3	B	102	3.50	—	ROW	—		—		—		3.0	ROW	—		—	
1976 31	12:41:34.29	SIZ	0.14	14	37.284	116.436	0.7	B	80	6.34	—	ROW	—		—		—		2.7	ROW	—		—	
1976 APR 1	4:28:35.98		—	10	36.102	117.758	—	B	—	6.04	—	PAS	—		—		2.4	PAS	—		—		—	
1976 1	8: 9:26.98	SIZ	0.16	11	37.261	116.505	1.1	C	150	6.71	—	ROW	—		—		—		2.7	ROW	—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1976 APR 4	1:11:53.65		—	5	35.778	117.572	—	D	—	7.26	—	PAS	—		—		1.7	PAS	—		—		—	
1976 4	2:38:26.39		—	5	35.717	117.120	—	D	—	8.00*	—	PAS	—		—		1.7	PAS	—		—		—	
1976 5	1: 2:39.46	SIZ	0.23	13	37.300	116.328	—	B	79	11.54	—	ROW	—		—		2.9	PAS	3.2	ROW	—		—	
1976 5	23:37:38.82	SIZ	0.14	12	37.299	116.344	0.8	A	71	10.67	—	ROW	—		—		—		2.8	ROW	—		—	
1976 7	12:48:41.12	SIZ	0.11	11	37.242	116.501	0.7	B	103	10.50	—	ROW	—		—		—		2.5	ROW	—		—	
1976 7	14:16:53.97	SIZ	0.29	11	37.230	116.504	2.0	C	103	7.59	—	ROW	—		—		—		3.1	ROW	—		—	
1976 9	3: 8:22.98		—	10	36.194	117.605	—	C	—	3.89	—	PAS	—		—		2.2	PAS	—		—		—	
1976 9	13:36:42.82	SIZ	0.24	9	37.305	116.361	1.5	C	124	4.05	—	ROW	—		—		—		2.5	ROW	—		—	
1976 9	13:43:31.47	SIZ	0.28	9	37.291	116.367	2.1	C	123	0.38	—	ROW	—		—		—		2.6	ROW	—		—	
1976 9	19: 2:40.70	SIZ	0.16	9	37.294	116.500	1.2	C	130	4.22	—	ROW	—		—		—		2.8	ROW	—		—	
1976 12	5:37:13.98		—	8	36.987	117.994	—	C	—	0.31	—	PAS	—		—		2.4	PAS	—		—		—	
1976 13	2:54:51.58		—	4	35.980	116.941	—	D	—	5.14	—	PAS	—		—		2.4	PAS	—		—		—	
1976 13	13:26:43.33	SIZ	0.38	10	37.294	116.314	2.4	C	124	10.22	—	ROW	—		—		—		2.6	ROW	—		—	
1976 17	6:10:32.98		—	6	36.118	117.911	—	D	—	8.00*	—	PAS	—		—		2.1	PAS	—		—		—	
1976 18	2:45:58.58		—	6	35.800	117.674	—	C	—	6.20	—	PAS	—		—		1.9	PAS	—		—		—	
1976 18	10:59:31.42		—	8	36.111	117.675	—	C	—	8.00*	—	PAS	—		—		2.1	PAS	—		—		—	
1976 20	4:19:14.59		—	10	36.160	117.973	—	B	—	0.28	—	PAS	—		—		2.7	PAS	—		—		—	
1976 21	1: 3:43.69		—	7	35.994	117.640	—	C	—	4.26	—	PAS	—		—		2.2	PAS	—		—		—	
1976 24	3:21:21.97		0.23	13	37.088	116.626	—	B	110	15.53	—	ROW	—		—		2.6	PAS	2.7	ROW	—		—	
1976 24	13:45:43.73		—	14	36.183	117.618	—	B	—	5.51	—	PAS	—		—		2.5	PAS	—		—		—	
1976 24	21: 4:26.65		—	11	36.159	117.943	—	B	—	6.13	—	PAS	—		—		2.9	PAS	—		—		—	
1976 MAY 3	3:35: 5.65	SIZ	0.13	10	37.293	116.490	0.9	B	160	5.62	—	ROW	—		—		—		2.5	ROW	—		—	
1976 8	13:16:37.48	SIZ	0.16	13	37.291	116.351	—	B	68	9.56	—	ROW	3	BRP	1.8	BRP	3.2	PAS	3.5	ROW	—		—	
1976 9	12: 0:25.44	SIZ	0.11	12	37.297	116.337	0.6	B	75	9.25	—	ROW	—		—		—		2.8	ROW	—		—	
1976 10	0: 2:47.60		—	5	36.990	117.950	—		—	—	—	BRK	—		—		3.0	BRK	—		—		2.4	PAS
1976 10	13: 7: 3.07	SIZ	0.18	12	37.279	116.370	0.9	B	62	9.58	—	ROW	—		—		—		2.6	ROW	—		—	
1976 14	12:48:24.75	SIZ	0.12	11	37.241	116.314	0.6	A	69	4.56	—	ROW	—		—		—		3.3	ROW	—		—	
1976 20	14: 7:38.91	SIZ	0.12	11	37.408	116.290	1.2	C	211	8.94	—	ROW	—		—		—		2.6	ROW	—		—	
1976 20	17:29:59.12		—	5	37.125	115.826	—	D	—	1.76	—	PAS	—		—		3.7	PAS	—		—		—	
1976 28	1:57:13.71	SIZ	0.19	12	37.339	116.315	1.1	B	92	4.66	—	ROW	—		—		—		2.9	ROW	—		—	
1976 30	23:28:49.01		—	8	35.817	117.944	—	C	—	8.00*	—	PAS	—		—		2.7	PAS	—		—		—	
1976 31	3:25:35.38	SIZ	0.13	10	37.293	116.461	0.8	A	88	8.02	—	ROW	—		—		—		2.8	ROW	—		—	
1976 31	7:47:31.76	SIZ	0.11	11	37.292	116.457	0.6	A	87	8.19	—	ROW	—		—		—		3.0	ROW	—		—	
1976 JUN 1	10:24:42.71		0.09	16	36.635	116.322	—	B	123	7.00	—	ROW	4	BRP	3.5	BRP	3.0	PAS	3.5	ROW	—		—	
1976 2	5:32:37.06		—	8	36.029	117.884	—	C	—	8.00*	—	PAS	—		—		2.2	PAS	—		—		—	
1976 2	6:19:56.23		—	7	36.029	117.853	—	C	—	8.00*	—	PAS	—		—		2.1	PAS	—		—		—	
1976 3	4:59:35.65	SIZ	0.30	12	37.290	116.497	1.7	B	92	6.22	—	ROW	—		—		—		2.8	ROW	—		—	
1976 5	14:41:26.56		—	10	36.028	117.865	—	B	—	4.32	—	PAS	—		—		2.5	PAS	—		—		—	
1976 6	12:45: 2.74		0.09	15	36.631	116.328	—	B	124	6.11	—	ROW	4	BRP	3.5	BRP	3.8	PAS	4.0	ROW	—		—	
1976 7	0:32:38.68		0.09	15	36.630	116.330	—	B	124	6.34	—	ROW	5	BRP	4.1	BRP	4.1	PAS	4.1	ROW	—		—	
1976 7	0:37:12.95		0.18	15	36.629	116.332	—	B	124	7.62	—	ROW	5	BRP	4.1	BRP	4.1	PAS	4.2	ROW	4.0	PDX	—	
1976 7	2:28: 6.67		0.14	14	36.629	116.337	0.7	C	124	0.17	—	ROW	—		—		—		3.1	ROW	—		—	
1976 8	5:56: 5.36		0.32	9	36.647	116.328	2.2	C	122	0.92	—	ROW	—		—		—		2.3	ROW	—		—	
1976 8	6:45:48.41		0.26	10	36.641	116.325	1.4	C	123	0.61	—	ROW	—		—		—		2.4	ROW	—		—	
1976 9	9:43: 6.74		0.17	10	36.629	116.317	1.2	B	124	7.12	—	ROW	—		—		—		2.5	ROW	—		—	
1976 9	22:12:58.54		0.38	12	36.620	116.329	2.3	C	124	9.32	—	ROW	—		—		—		3.1	ROW	—		—	
1976 11	11: 1: 2.22	SIZ	0.11	8	37.274	116.517	1.0	B	146	7.60	—	ROW	—		—		—		2.8	ROW	—		—	
1976 12	10:22:17.76		—	10	35.688	117.662	—	B	—	1.83	—	PAS	—		—		2.4	PAS	—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1976 JUN 13	0:26: 0.84		0.22	12	36.645	116.307	1.3	C	122	3.38	—	ROW	—		—		—		2.4	ROW	—		—	
1976 15	1:50:26.73	SIZ	0.18	8	37.269	116.518	1.6	B	123	6.69	—	ROW	—		—		—		2.7	ROW	—		—	
1976 16	15:35:24.72		0.15	11	36.637	116.335	—	C	123	4.93	—	ROW	—		—		2.6	PAS	2.9	ROW	—		—	
1976 17	18:44:30.57		—	8	36.367	117.919	—	C	—	8.00*	—	PAS	—		—		2.6	PAS	—		—		—	
1976 17	20: 3:49.35		—	11	36.395	117.891	—	C	—	8.00*	—	PAS	—		—		2.4	PAS	—		—		—	
1976 18	7:49:39.10		—	8	36.369	117.919	—	C	—	8.00*	—	PAS	—		—		1.9	PAS	—		—		—	
1976 19	6:49:57.96		0.18	11	36.630	116.323	1.1	C	124	0.45	—	ROW	—		—		—		2.4	ROW	—		—	
1976 19	10:26:55.80		0.08	12	36.647	116.322	—	C	122	4.65	—	ROW	—		—		3.7	PAS	3.9	ROW	—		—	
1976 19	10:48:48.24		0.14	9	36.632	116.319	1.0	C	123	0.51	—	ROW	—		—		—		2.5	ROW	—		—	
1976 20	18:30:58.26		0.14	9	36.625	116.321	—	C	124	0.20	—	ROW	3	BRP	3.0	BRP	3.0	PAS	3.4	ROW	—		—	
1976 20	20:28:21.30		0.19	11	36.640	116.326	—	C	123	5.89	—	ROW	—		—		2.8	PAS	3.4	ROW	—		—	
1976 22	23:39: 2.97		0.13	10	36.628	116.324	1.0	C	124	5.97	—	ROW	—		—		—		2.9	ROW	—		—	
1976 28	1:58:43.55		0.15	13	36.630	116.317	0.8	C	124	0.61	—	ROW	—		—		—		2.4	ROW	—		—	
1976 JUL 15	0:51:34.64		—	7	35.972	116.981	—	D	—	3.55	—	PAS	—		—		2.1	PAS	—		—		—	
1976 15	4:46:29.29		—	9	36.370	117.571	—	B	—	3.31	—	PAS	—		—		2.8	PAS	—		—		—	
1976 18	3: 1:37.41		—	7	36.543	117.868	—	C	—	8.00*	—	PAS	3	BRP	3.3	BRP	3.1	PAS	—		—		3.3	BRK
1976 29	21:54:32.71		—	8	36.540	117.894	—	C	—	5.29	—	PAS	—		—		2.2	PAS	—		—		—	
1976 AUG 2	4:27: 9.60		0.22	11	38.323	117.901	—	D	—	0.55	—	RYN	—		—		—		2.9	RYN	—		—	
1976 5	19:40:43.00		—	4	38.254	117.986	—	C	—	18.98	—	RYN	—		—		—		3.3	RYN	—		—	
1976 5	20:32:31.80		0.30	6	38.291	117.957	—	D	—	0.48	—	RYN	—		—		—		2.9	RYN	—		—	
1976 11	2:23:10.00		—	—	36.222	117.990	—	D	—	8.00*	—	PAS	—		—		2.2	PAS	—		—		—	
1976 13	6:55:51.94		—	—	36.515	117.894	—	D	—	8.00*	—	PAS	—		—		2.8	PAS	—		—		—	
1976 14	13: 5:58.40		0.09	6	38.475	117.813	—	D	—	8.19	—	RYN	—		—		—		3.3	RYN	—		—	
1976 16	16:37:21.40		—	—	36.194	117.655	—	D	—	8.00*	—	PAS	5	BRP	3.7	BRP	3.7	PAS	—		—		—	
1976 16	19:21:40.70		—	—	36.228	117.578	—	D	—	8.00*	—	PAS	—		—		2.4	PAS	—		—		—	
1976 18	23:16:41.90		—	7	35.884	117.893	—		—	33.00*	—	ISC	—		—		—		—		—		—	
1976 22	15:55:37.38		—	—	36.002	116.946	—	D	—	3.19	—	PAS	—		—		2.1	PAS	—		—		—	
1976 SEP 1	11:13:23.51		—	4	36.418	117.881	—	D	—	3.38	—	PAS	—		—		1.8	PAS	—		—		—	
1976 1	21:37:33.33		—	4	35.734	117.528	—	D	—	4.04	—	PAS	—		—		1.8	PAS	—		—		—	
1976 14	19: 0:19.14		—	15	35.836	117.728	—	B	—	4.54	—	PAS	—		—		2.8	PAS	—		—		—	
1976 16	21:14:14.23		—	5	36.003	116.947	—	D	—	3.50	—	PAS	—		—		1.7	PAS	—		—		—	
1976 23	2:46:53.54		—	7	36.514	117.865	—	C	—	6.19	—	PAS	3	BRP	3.0	BRP	3.4	PAS	—		—		3.7	BRK
1976 23	18:24:20.11		—	8	36.451	117.877	—	C	—	3.50	—	PAS	—		—		2.2	PAS	—		—		—	
1976 25	20: 9:42.30		—	8	35.797	117.685	—	C	—	10.50	—	PAS	—		—		1.8	PAS	—		—		—	
1976 27	13:18:17.76		—	8	35.765	117.698	—	C	—	3.68	—	PAS	—		—		2.0	PAS	—		—		—	
1976 27	17: 7:48.84		—	8	35.777	117.702	—	C	—	4.71	—	PAS	—		—		2.3	PAS	—		—		—	
1976 28	0:17: 8.85		—	9	35.755	117.694	—	B	—	3.13	—	PAS	—		—		2.7	PAS	—		—		—	
1976 28	0:23:45.82		—	5	35.786	117.718	—	C	—	3.35	—	PAS	—		—		1.9	PAS	—		—		—	
1976 28	0:34: 7.27		—	9	35.769	117.697	—	B	—	4.94	—	PAS	—		—		2.5	PAS	—		—		—	
1976 28	0:49:53.97		—	8	35.818	117.697	—	C	—	16.50	—	PAS	—		—		1.9	PAS	—		—		—	
1976 28	10:44:19.35		—	10	35.762	117.693	—	B	—	4.78	—	PAS	—		—		2.5	PAS	—		—		—	
1976 28	10:56:38.91		—	6	35.818	117.624	—	D	—	11.90	—	PAS	—		—		1.9	PAS	—		—		—	
1976 28	17:40:52.86		—	8	35.818	117.697	—	C	—	12.90	—	PAS	—		—		1.9	PAS	—		—		—	
1976 28	21:40:11.15		—	8	35.830	117.708	—	C	—	10.60	—	PAS	—		—		1.8	PAS	—		—		—	
1976 29	12:43:25.84		—	5	35.749	117.651	—	D	—	2.92	—	PAS	—		—		1.9	PAS	—		—		—	
1976 29	20:13: 6.74		—	16	35.778	117.695	—	C	—	4.94	—	PAS	—		—		2.7	PAS	—		—		—	
1976 29	20:17:50.24		—	6	35.725	117.648	—	C	—	8.00*	—	PAS	—		—		2.0	PAS	—		—		—	
1976 30	0: 4:23.27		—	6	35.785	117.691	—	C	—	4.84	—	PAS	—		—		1.9	PAS	—		—		—	

DATE (UTC)	ORIGIN TIME HR	MN	SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1976 SEP 30	1	26	2.93		—	6	35.819	117.674	—	C	—	7.43	—	PAS	—		—		1.7	PAS	—		—		—	
1976 30	2	55	8.40		—	6	35.761	117.701	—	D	—	6.12	—	PAS	—		—		1.9	PAS	—		—		—	
1976 30	5	34	12.44		—	6	35.811	117.686	—	C	—	8.00*	—	PAS	—		—		1.7	PAS	—		—		—	
1976 30	6	16	6.59		—	13	35.781	117.705	—	C	—	6.56	—	PAS	—		—		2.5	PAS	—		—		—	
1976 OCT 1	0	39	22.52		—	—	35.974	117.765	—	D	—	9.93	—	PAS	—		—		2.0	PAS	—		—		—	
1976 1	1	6	32.11		—	—	35.791	117.693	—	D	—	10.70	—	PAS	—		—		2.8	PAS	—		—		—	
1976 1	10	27	18.64		—	—	35.818	117.654	—	D	—	11.40	—	PAS	—		—		1.8	PAS	—		—		—	
1976 3	6	15	47.30		—	—	35.833	117.693	—	D	—	8.00*	—	PAS	—		—		1.7	PAS	—		—		—	
1976 3	6	57	17.92		—	—	35.818	117.688	—	D	—	9.15	—	PAS	—		—		1.8	PAS	—		—		—	
1976 3	14	44	5.11		—	—	35.852	117.703	—	D	—	8.00*	—	PAS	—		—		2.4	PAS	—		—		—	
1976 3	14	57	46.31		—	—	35.818	117.686	—	D	—	8.31	—	PAS	—		—		2.2	PAS	—		—		—	
1976 4	6	49	48.81		—	—	35.800	117.623	—	D	—	8.00*	—	PAS	—		—		2.0	PAS	—		—		—	
1976 4	14	48	39.00	LM	—	—	36.030	114.730	—	X	—	5.00*	—	BRP	3	BRP	1.8	BRP	3.0	POX	—		—		—	
1976 4	20	50	39.73		—	—	35.820	117.697	—	D	—	6.70	—	PAS	—		—		2.0	PAS	—		—		—	
1976 6	0	39	1.50		—	—	35.802	117.685	—	D	—	8.00*	—	PAS	—		—		2.1	PAS	—		—		—	
1976 9	12	28	20.14		—	—	35.883	117.688	—	D	—	9.89	—	PAS	—		—		2.0	PAS	—		—		—	
1976 9	21	34	57.93		—	—	35.801	117.696	—	D	—	8.00*	—	PAS	—		—		2.0	PAS	—		—		—	
1976 10	4	36	9.28		—	—	35.810	117.711	—	D	—	8.00*	—	PAS	—		—		1.9	PAS	—		—		—	
1976 10	22	51	24.18		—	—	35.820	117.686	—	D	—	3.33	—	PAS	—		—		2.3	PAS	—		—		—	
1976 15	8	39	51.73		—	—	35.848	117.687	—	D	—	10.00*	—	PAS	—		—		1.7	PAS	—		—		—	
1976 18	23	15	14.50		—	—	35.818	117.692	—	D	—	8.00*	—	PAS	—		—		2.5	PAS	—		—		—	
1976 19	1	59	10.60	LM	—	—	35.980	114.820	—	X	—	5.00*	—	BRP	3	BRP	3.0	BRP	—		—		—		—	
1976 19	5	34	9.71		—	—	35.810	117.985	—	D	—	8.39	—	PAS	—		—		1.8	PAS	—		—		—	
1976 20	23	14	56.30		—	7	37.600	118.000	—		—	—	—	BRK	—		—		3.4	BRK	—		—		—	
1976 30	9	19	51.11		—	—	36.076	116.853	—	D	—	1.31	—	PAS	—		—		2.1	PAS	—		—		—	
1976 30	22	56	14.76		—	—	35.847	117.715	—	D	—	7.90	—	PAS	—		—		2.4	PAS	—		—		—	
1976 31	8	18	58.88		—	—	35.807	117.705	—	D	—	6.06	—	PAS	—		—		2.3	PAS	—		—		—	
1976 NOV 5	5	16	51.70	SIZ	0.13	7	37.192	116.204	—		—	2.80	—	RYN	—		—		—		2.5	RYN	—		—	
1976 10	6	47	59.13		—	7	36.013	117.579	—	C	—	0.66	—	PAS	—		—		3.7	PAS	—		—		—	
1976 10	11	54	23.74		—	—	35.991	117.849	—	D	—	7.82	—	PAS	—		—		2.3	PAS	—		—		—	
1976 13	5	2	38.82		—	—	35.818	117.639	—	D	—	10.60	—	PAS	—		—		2.3	PAS	—		—		—	
1976 13	19	1	58.80		0.12	13	38.463	117.893	—	B	—	6.27	—	RYN	—		—		—		3.5	RYN	—		—	
1976 13	20	15	4.70		—	—	35.745	117.529	—	D	—	3.64	—	PAS	—		—		1.7	PAS	—		—		—	
1976 16	20	1	47.10		—	—	35.818	117.922	—	D	—	8.00*	—	PAS	—		—		2.2	PAS	—		—		—	
1976 21	3	54	9.60		0.20	7	37.507	117.968	—		—	—	—	RYN	—		—		—		1.8	RYN	—		—	
1976 22	1	36	57.86		—	—	35.898	117.051	—	D	—	3.30	—	PAS	—		—		2.0	PAS	—		—		—	
1976 24	16	51	17.04		—	—	35.833	117.588	—	D	—	8.00*	—	PAS	—		—		1.8	PAS	—		—		—	
1976 25	1	23	15.07	SIZ	—	—	36.850	115.986	—	D	—	3.00*	—	PAS	—		—		2.7	PAS	—		—		—	
1976 DEC 2	14	10	16.22		—	—	35.961	117.832	—	D	—	3.15	—	PAS	—		—		2.2	PAS	—		—		—	
1976 2	17	47	25.96		—	—	35.928	117.815	—	D	—	3.27	—	PAS	—		—		2.4	PAS	—		—		—	
1976 2	18	22	25.19		—	—	35.953	117.826	—	D	—	8.00*	—	PAS	—		—		1.9	PAS	—		—		—	
1976 2	19	44	7.17		—	—	35.964	117.818	—	D	—	3.06	—	PAS	—		—		2.2	PAS	—		—		—	
1976 2	21	2	8.04		—	—	36.045	117.797	—	D	—	2.88	—	PAS	—		—		2.7	PAS	—		—		—	
1976 4	23	28	7.10		—	—	35.801	117.718	—	D	—	3.30	—	PAS	—		—		2.7	PAS	—		—		—	
1976 5	7	1	11.69		—	—	35.781	117.719	—	D	—	6.11	—	PAS	—		—		2.1	PAS	—		—		—	
1976 10	22	23	18.86		—	—	35.818	117.707	—	D	—	8.00*	—	PAS	—		—		2.3	PAS	—		—		—	
1976 11	14	53	6.42		—	—	35.800	117.702	—	D	—	5.65	—	PAS	3	BRP	3.1	BRP	3.1	PAS	—		—		—	
1976 12	16	13	24.97		—	—	35.818	117.698	—	D	—	8.00*	—	PAS	—		—		2.7	PAS	—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1976 DEC 12	20:45: 5.20		—	—	35.867	117.715	—	D	—	4.02	—	PAS	—		—		1.9	PAS	—		—		—	
1976 13	1:12:43.98		—	—	35.885	117.684	—	D	—	3.28	—	PAS	—		—		2.3	PAS	—		—		—	
1976 16	18:15:37.10		—	—	35.771	117.697	—	D	—	8.00*	—	PAS	—		—		2.8	PAS	—		—		—	
1976 18	11:29: 3.19		—	—	35.818	117.861	—	D	—	8.00*	—	PAS	—		—		2.5	PAS	—		—		—	
1976 18	16:16: 1.46		—	—	36.367	117.867	—	D	—	8.00*	—	PAS	—		—		2.0	PAS	—		—		—	
1976 21	15:57:59.40	SIZ	0.42	18	37.120	115.879	—		—	1.00*	—	RYN	—		—		—		—		—		—	
1976 21	21: 4:54.90	SIZ	—	7	37.210	116.270	—		—	—	—	ISC	—		—		—		—		—		—	
1976 22	15:13: 7.34		—	—	36.242	117.922	—	D	—	1.25	—	PAS	—		—		2.8	PAS	—		—		—	
1976 22	16:49:53.99		—	—	36.316	117.839	—	D	—	1.22	—	PAS	—		—		2.2	PAS	—		—		—	
1976 25	4:50:40.10	SIZ	0.68	13	37.177	116.359	—		—	—	—	RYN	—		—		—		2.5	RYN	—		—	
1976 27	18:16:55.00		0.21	12	37.693	117.614	—		—	15.60	—	RYN	—		—		—		1.9	RYN	—		—	
1976 27	20:30:18.20		0.20	14	37.679	117.617	—	C	—	11.66	—	RYN	—		—		—		—		—		—	
1976 27	20:33:16.20		0.25	10	37.690	117.612	—		—	12.90	—	RYN	—		—		—		1.3	RYN	—		—	
1976 27	21: 2:11.40		0.12	8	37.679	117.611	—		—	19.30	—	RYN	—		—		—		1.5	RYN	—		—	
1976 27	21: 9:48.40		0.13	7	37.698	117.611	—		—	22.10	—	RYN	—		—		—		1.5	RYN	—		—	
1976 27	21:40:20.80		0.29	9	37.679	117.616	—		—	—	—	RYN	—		—		—		1.8	RYN	—		—	
1976 27	23: 3:43.30		0.34	19	37.699	117.611	—		—	—	—	RYN	—		—		—		2.5	RYN	—		—	
1976 28	2:33: 1.10		0.28	13	37.696	117.613	—		—	11.90	—	RYN	—		—		—		2.1	RYN	—		—	
1976 28	19:13:30.10		0.36	10	37.618	117.634	—	D	—	19.07	—	RYN	—		—		—		3.1	RYN	—		—	
1976 28	20:14:26.00	CPDX	—	11	37.100	116.036	—		—	—	—	PDX	—		—		—		—		3.5	PDX	—	
1976 28	20:29:26.00	CPDX	—	25	37.100	116.036	—		—	—	—	PDX	—		—		4.5	PDX	—		4.4	PDX	—	
1977 JAN 6	7:54:39.60		0.42	13	36.794	115.802	—		—	6.30	—	RYN	—		—		—		3.8	RYN	—		—	
1977 16	22:28:23.80		—	7	36.410	117.810	—		—	—	—	BRK	4	BRP	3.9	BRP	4.1	BRK	—		—		—	
1977 22	10:44:57.64		—	3	35.686	117.821	—	C	—	12.98	—	PAS	3	BRP	3.1	BRP	3.1	PAS	—		—		—	
1977 26	14:51: 1.01		—	—	35.762	117.714	—	D	—	5.65	—	PAS	—		—		2.6	PAS	—		—		—	
1977 FEB 9	4: 8:38.20		0.18	6	38.494	117.833	—	C	—	10.84	—	RYN	—		—		—		1.4	RYN	—		—	
1977 14	2:10: 2.54		—	14	35.818	117.598	—	D	—	8.00*	—	PAS	—		—		—		—		—		—	
1977 14	8:48:35.10		—	3	35.752	117.699	—	C	—	8.00*	—	PAS	—		—		3.0	PAS	—		—		—	
1977 14	13:58:40.30		—	—	35.720	117.700	—	X	—	3.00*	—	BRP	5	PDX	3.2	BRP	3.2	PDX	—		—		—	
1977 14	19: 3:47.22		—	4	35.692	117.754	—	C	—	12.44	—	PAS	—		—		2.5	PAS	—		—		—	
1977 16	17:53: 0.20	SIZ	—	—	37.000	116.040	—	X	—	5.00*	—	BRP	5	BRP	4.1	BRP	4.1	PDX	—		4.8	PDX	—	
1977 MAR 1	19:11:25.60		0.13	14	38.306	117.877	—	C	—	8.70	—	RYN	—		—		—		3.2	RYN	—		—	
1977 4	13:20:10.03		—	4	35.690	117.726	—	C	—	13.19	—	PAS	—		—		2.7	PAS	—		—		—	
1977 5	8:44:43.37		—	4	35.706	117.712	—	C	—	5.53	—	PAS	—		—		2.8	PAS	—		—		—	
1977 6	16:46: 6.35		—	3	35.665	117.728	—	C	—	8.00*	—	PAS	—		—		2.5	PAS	—		—		—	
1977 7	21:52:24.00		—	—	35.730	117.700	—	X	—	12.00*	—	BRP	5	PDX	3.0	BRP	3.0	PAS	—		—		—	
1977 7	22: 8:13.45		—	3	35.779	117.718	—	C	—	8.00*	—	PAS	—		—		—		—		—		—	
1977 7	23:21:30.80		—	4	35.696	117.721	—	C	—	5.95	—	PAS	3	BRP	3.2	BRP	3.0	PAS	—		—		—	
1977 8	0: 0:54.32		—	3	35.702	117.690	—	C	—	8.00*	—	PAS	—		—		2.1	PAS	—		—		—	
1977 8	14:24: 1.90	SIZ	—	—	37.240	116.260	—	X	—	5.00*	—	BRP	3	BRP	2.1	BRP	3.2	PDX	—		—		—	
1977 8	15:52: 1.30		—	3	35.667	117.727	—	C	—	8.00*	—	PAS	—		—		2.9	PAS	—		—		—	
1977 14	1:17:41.84		—	3	35.755	117.699	—	C	—	8.00*	—	PAS	—		—		2.7	PAS	—		—		—	
1977 19	10:37:49.70		—	—	35.700	117.720	—	X	—	2.00*	—	BRP	3	BRP	3.0	BRP	3.0	PDX	—		—		—	
1977 19	11:21:12.02		—	4	35.694	117.720	—	C	—	8.00*	—	PAS	—		—		2.6	PAS	—		—		—	
1977 20	21: 4:56.22		—	4	35.713	117.714	—	C	—	6.19	—	PAS	—		—		2.3	PAS	—		—		—	
1977 21	7:46:52.20		0.26	8	37.107	117.861	—		—	—	—	RYN	—		—		—		2.3	RYN	—		—	
1977 30	20:39:29.10		0.38	13	38.099	116.756	—		—	—	—	RYN	—		—		—		2.3	RYN	—		—	
1977 APR 5	16:57: 6.30	CPDX	—	26	37.120	116.062	—		—	—	—	PDX	—		—		4.4	PDX	—		4.6	PDX	—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1977 APR 8	6:45:34.80	SIZ	0.40	15	37.266	116.354	—		—	—	—	RYN	—		—		—		3.4	RYN	—		—	
1977 13	10:29: 1.48		—	3	35.642	117.895	—	C	—	8.00*	—	PAS	—		—		—		—		—		—	
1977 13	16:18:11.75		—	4	35.773	117.703	—	C	—	8.15	—	PAS	—		—		2.6	PAS	—		—		—	
1977 19	23:54:37.30		0.09	7	38.263	117.877	—	D	—	2.28	—	RYN	—		—		—		—		—		—	
1977 27	22:32:26.00		0.56	7	37.997	117.970	—	D	—	4.95	—	RYN	—		—		—		1.5	RYN	—		—	
1977 JUN 5	14: 8:31.90		—	5	36.540	116.410	—		—	—	—	BRK	4	BRP	3.7	BRP	3.7	BRK	—		—		—	
1977 9	1:15:24.00		0.16	9	38.454	117.864	—	C	—	12.34	—	RYN	—		—		—		1.3	RYN	—		—	
1977 14	4:37: 2.90		—	8	37.117	117.908	—		—	5.00*	—	PDX	—		—		3.1	PDX	—		—		—	
1977 27	2:34:30.00		—	9	37.390	115.410	—		—	—	—	ISC	—		—		—		—		—		—	
1977 JUL 1	11:23:15.93		—	—	35.706	117.615	—	D	—	5.71	—	PAS	—		—		1.9	PAS	—		—		—	
1977 2	1:40: 2.20	SIZ	0.09	8	37.247	116.075	—		—	1.00*	—	RYN	—		—		—		—		—		—	
1977 8	17: 1: 2.10		—	—	35.988	117.828	—	D	—	5.12	—	PAS	—		—		2.3	PAS	—		—		—	
1977 8	17:38:24.77		—	—	35.981	117.836	—	D	—	5.19	—	PAS	—		—		2.6	PAS	—		—		—	
1977 11	6:13:46.34		—	—	35.725	116.460	—	D	—	5.04	—	PAS	—		—		3.8	PAS	—		—		—	
1977 11	11:42: 8.75		—	—	35.861	116.525	—	D	—	3.38	—	PAS	—		—		3.4	PAS	—		—		—	
1977 21	16: 6:22.10		—	—	37.230	114.970	—	X	—	7.00*	—	BRP	3	BRP	2.2	BRP	3.3	PDX	—		—		—	
1977 21	16: 7: 2.54		—	—	36.005	117.835	—	D	—	5.00*	—	PAS	—		—		3.3	PAS	—		—		—	
1977 22	5:11: 3.24		—	—	36.343	117.017	—	D	—	5.00*	—	PAS	—		—		2.7	PAS	—		—		—	
1977 28	14: 7: 0.20	SIZ	—	—	37.110	116.080	—	X	—	5.00*	—	BRP	4	BRP	3.7	BRP	3.7	PDX	—		—		—	
1977 AUG 7	0:24:31.00		0.10	9	37.504	117.743	—	C	—	14.30	—	RYN	—		—		—		1.5	RYN	—		—	
1977 7	0:25:54.40		0.59	7	38.485	117.920	—	D	—	5.50	—	RYN	—		—		—		1.2	RYN	—		—	
1977 7	0:27:12.00		0.07	9	37.489	117.742	—	D	—	6.18	—	RYN	—		—		—		1.6	RYN	—		—	
1977 7	4:29:28.50		0.09	10	37.493	117.742	—	C	—	6.64	—	RYN	—		—		—		2.3	RYN	—		—	
1977 7	4:40:28.10		0.54	7	37.562	117.831	—	D	—	28.19	—	RYN	—		—		—		1.6	RYN	—		—	
1977 8	4:51:41.60		0.07	9	37.568	117.756	—	C	—	9.25	—	RYN	5	BRP	4.0	BRP	4.2	BRK	4.2	RYN	—		—	
1977 8	5: 0:13.10		0.04	6	37.514	117.722	—	C	—	13.71	—	RYN	—		—		—		—		—		—	
1977 8	5: 0:35.80		0.36	5	37.693	117.572	—	D	—	26.95	—	RYN	—		—		—		1.2	RYN	—		—	
1977 8	5:41: 4.80		0.10	10	37.495	117.748	—	C	—	7.26	—	RYN	—		—		—		2.3	RYN	—		—	
1977 8	23:24:21.60		0.05	5	37.428	117.585	—	D	—	3.04	—	RYN	—		—		—		—		—		—	
1977 15	1: 0:12.90		0.04	6	37.493	117.717	—	C	—	3.53	—	RYN	—		—		—		1.4	RYN	—		—	
1977 16	14:40:59.60	SIZ	0.74	16	37.031	115.944	—		—	1.00*	—	RYN	4	BRP	3.5	BRP	3.5	PDX	—		—		—	
1977 16	15:48:59.40	SIZ	0.46	13	37.052	115.949	—		—	1.00*	—	RYN	5	BRP	4.0	BRP	4.0	PDX	—		—		—	
1977 17	19:59:58.09		—	—	35.663	117.044	—	D	—	2.62	—	PAS	—		—		2.3	PAS	—		—		—	
1977 19	17:32: 0.10	SIZ	—	—	37.040	116.010	—	X	—	5.00*	—	BRP	4	BRP	3.5	BRP	3.5	PDX	—		—		—	
1977 21	6:40:31.80		0.16	7	37.511	117.737	—		—	—	—	RYN	—		—		—		1.3	RYN	—		—	
1977 21	8: 6:10.90		0.20	10	37.526	117.756	—		—	—	—	RYN	—		—		—		1.9	RYN	—		—	
1977 21	19:31:36.80		0.08	7	37.538	117.681	—		—	—	—	RYN	—		—		—		0.6	RYN	—		—	
1977 21	20: 4: 9.50		0.26	9	37.509	117.739	—		—	—	—	RYN	—		—		—		1.8	RYN	—		—	
1977 21	20: 5:40.90		0.27	9	37.089	117.271	—		—	5.70	—	RYN	—		—		—		2.6	RYN	—		—	
1977 22	22:46:36.70		0.13	7	37.499	117.737	—		—	—	—	RYN	—		—		—		1.5	RYN	—		—	
1977 30	2: 5:25.50		0.12	8	37.503	117.721	—		—	—	—	RYN	—		—		—		2.1	RYN	—		—	
1977 31	12:24:11.00		0.22	9	38.439	117.837	—	B	—	22.50	—	RYN	—		—		—		1.8	RYN	—		—	
1977 31	16: 5:40.90		0.17	8	37.504	117.742	—		—	—	—	RYN	—		—		—		2.3	RYN	—		—	
1977 SEP 12	13:59:22.28		—	—	35.625	117.525	—	C	—	4.28	—	PAS	3	BRP	3.1	BRP	3.0	PAS	—		—		—	
1977 OCT 7	9: 7:49.60		0.35	8	37.520	117.741	—		—	—	—	RYN	—		—		—		1.9	RYN	—		—	
1977 10	21:35:41.30		0.15	8	37.139	117.833	—		—	—	—	RYN	—		—		3.3	BRK	3.0	RYN	—		—	
1977 10	21:36: 8.29		—	—	35.675	116.445	—	D	—	4.89	—	PAS	—		—		—		—		—		—	
1977 11	0: 3:26.55		—	—	35.983	117.825	—	D	—	4.44	—	PAS	—		—		2.3	PAS	—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1977 OCT 11	11:20:45.70		—	—	36.495	117.026	—	D	—	5.00*	—	PAS	—		—		2.7	PAS	—		—		—	
1977 12	16:42: 6.62		—	—	35.753	117.568	—	D	—	5.36	—	PAS	—		—		2.5	PAS	—		—		—	
1977 26	6: 5:38.66		—	—	36.163	117.876	—	D	—	5.00*	—	PAS	—		—		2.2	PAS	—		—		—	
1977 NOV 5	19:25:14.91		—	—	36.391	117.143	—	D	—	4.51	—	PAS	—		—		—		—		—		—	
1977 10	2:35:24.13		—	—	36.098	117.908	—	D	—	4.73	—	PAS	4	BRP	3.6	BRP	3.6	PAS	—		—		—	
1977 11	6:27:27.88		—	—	36.050	117.928	—	D	—	5.00*	—	PAS	—		—		2.4	PAS	—		—		—	
1977 12	1:41:30.54		—	—	36.033	117.817	—	D	—	5.36	—	PAS	—		—		2.7	PAS	—		—		—	
1977 13	18:44:45.50		0.59	15	37.326	115.187	—		—	14.50	—	RYN	—		—		—		3.5	RYN	—		—	
1977 16	12:53:23.10		0.27	8	37.320	115.181	—		—	—	—	RYN	3	BRP	1.8	BRP	3.0	PDX	—		—		—	
1977 17	0:35:23.87		—	—	36.035	117.797	—	D	—	4.82	—	PAS	3	BRP	3.0	BRP	3.0	PAS	—		—		—	
1977 17	20:39:24.70	CPDX	—	11	37.021	116.025	—		—	—	—	PDX	—		—		3.4	PDX	—		3.8	PDX	—	
1977 24	3:51:36.85		—	—	35.824	117.743	—	D	—	4.99	—	PAS	—		—		2.4	PAS	—		—		—	
1977 DEC 5	0: 9:45.70		—	—	37.890	114.670	—	X	—	5.00*	—	BRP	3	BRP	2.1	BRP	3.2	PDX	—		—		—	
1977 7	23:27:34.18		—	—	36.009	117.924	—	D	—	4.93	—	PAS	—		—		2.7	PAS	—		—		—	
1977 8	3:36:25.11		—	—	36.029	117.882	—	D	—	5.00*	—	PAS	3	BRP	3.0	BRP	3.0	PAS	—		—		—	
1977 9	2:27:26.33		—	—	36.041	117.424	—	D	—	4.89	—	PAS	—		—		2.6	PAS	—		—		—	
1977 12	13:20: 2.58		—	—	36.033	117.424	—	D	—	5.46	—	PAS	3	BRP	3.0	BRP	3.0	PAS	—		—		—	
1977 14	15: 0: 0.00	SIZ	—	7	37.033	115.956	—		—	5.00*	—	PDX	—		—		3.4	PDX	—		—		—	
1977 14	16: 2:20.10		0.35	5	38.220	116.654	—		—	—	—	RYN	—		—		—		1.8	RYN	—		—	
1977 16	16:52:36.30		0.42	9	38.029	114.613	—		—	—	—	RYN	—		—		—		3.5	RYN	—		—	
1977 20	15:46:32.38		—	—	36.195	117.952	—	D	—	5.24	—	PAS	—		—		2.7	PAS	—		—		—	
1977 21	12:22:42.60		0.17	7	37.252	117.577	—		—	—	—	RYN	—		—		—		2.6	RYN	—		—	
1977 23	2:35:12.78		—	—	36.147	117.930	—	D	—	5.07	—	PAS	—		—		2.6	PAS	—		—		—	
1978 JAN 3	23:32:31.72		—	7	37.177	117.742	—	D	—	4.10	—	PAS	—		—		—		—		—		—	
1978 4	19: 5:38.24		—	7	35.856	117.627	—	D	—	6.00*	—	PAS	—		—		1.9	PAS	—		—		—	
1978 5	10:52:21.20		—	51	36.255	117.928	—	D	—	1.98	—	PAS	—		—		3.5	PAS	—		—		—	
1978 7	8:18: 3.20		—	12	36.263	117.900	—	D	—	4.96	—	PAS	—		—		—		—		—		—	
1978 7	17: 6:13.81		—	11	36.234	117.970	—	D	—	5.00*	—	PAS	—		—		2.0	PAS	—		—		—	
1978 8	1:48:36.46		—	18	36.248	117.918	—	C	—	5.06	—	PAS	—		—		2.3	PAS	—		—		—	
1978 8	4: 6:34.90		—	10	36.231	117.936	—	D	—	5.05	—	PAS	—		—		—		—		—		—	
1978 8	9: 1:41.29		—	10	36.233	117.965	—	D	—	3.00*	—	PAS	—		—		—		—		—		—	
1978 8	21:50:58.44		—	22	36.237	117.911	—	D	—	4.10	—	PAS	—		—		2.6	PAS	—		—		—	
1978 9	4:55:52.46		—	18	36.237	117.930	—	D	—	3.50	—	PAS	—		—		2.6	PAS	—		—		—	
1978 10	12:41:35.50		—	16	36.231	117.974	—	C	—	3.01	—	PAS	—		—		2.4	PAS	—		—		—	
1978 18	6:37: 3.70		0.27	8	37.628	117.851	—		—	12.60	—	RYN	—		—		—		3.4	RYN	—		—	
1978 18	8:53:32.50		0.27	10	37.577	117.846	—		—	7.50	—	RYN	—		—		3.4	PAS	—		—		3.7	PDX
1978 18	15:27: 6.34		—	24	35.769	117.452	—	C	—	6.11	—	PAS	—		—		2.3	PAS	—		—		—	
1978 20	15:17:42.06		—	10	36.238	117.965	—	D	—	6.00*	—	PAS	—		—		2.0	PAS	—		—		—	
1978 28	2:53: 7.17		—	33	35.741	117.556	—	B	—	5.37	—	PAS	—		—		—		—		—		—	
1978 29	1:55:50.40		0.22	10	37.147	117.871	—		—	5.20	—	RYN	—		—		—		2.9	RYN	—		—	
1978 FEB 4	3:19:40.77		—	18	36.163	117.825	—	C	—	4.67	—	PAS	—		—		—		—		—		—	
1978 7	8:36:58.84		—	12	36.821	117.747	—	C	—	6.00*	—	PAS	—		—		—		—		—		—	
1978 10	13:43:34.79		—	7	37.696	117.815	—	D	—	5.09	—	PAS	—		—		—		—		—		—	
1978 17	10:13:45.58		—	39	35.733	115.907	—	D	—	6.00*	—	PAS	—		—		2.6	PAS	—		—		—	
1978 21	19:18:38.29		—	12	36.001	117.726	—	D	—	5.89	—	PAS	—		—		—		—		—		—	
1978 22	13:51: 0.90		—	13	35.947	117.703	—	D	—	5.95	—	PAS	—		—		2.4	PAS	—		—		—	
1978 24	0: 9: 5.10	CSNL	—	12	37.044	115.871	—		—	41.00*	—	ISC	—		—		—		—		—		—	
1978 26	11:15: 8.35		—	18	36.051	117.726	—	C	—	5.69	—	PAS	—		—		2.3	PAS	—		—		—	

DATE (UTC)	ORIGIN TIME HR MN SEC	HYPOCENTER FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	INTENSITY I	REF	MAGNITUDE MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1978 FEB 26	14: 2:19.65		—	16	36.050	117.728	—	D	—	5.83	—	PAS	—		—		—		—		—		—	
1978 28	16:43:45.21		—	9	36.287	117.430	—	D	—	6.00*	—	PAS*	—		—		—		—		—		—	
1978 MAR 3	17:59:48.59		—	12	36.078	117.635	—	D	—	5.53	—	PAS	—		—		—		—		—		—	
1978 3	18: 0:16.11		—	6	36.070	117.624	—	D	—	5.31	—	PAS	—		—		—		—		—		—	
1978 3	18: 1: 8.64		—	16	36.082	117.625	—	D	—	4.92	—	PAS	—		—		—		—		—		—	
1978 3	18: 4:19.19		—	7	36.071	117.607	—	D	—	4.92	—	PAS	—		—		—		—		—		—	
1978 3	18:37:23.27		—	25	36.085	117.621	—	C	—	6.03	—	PAS	—		—		2.5	PAS	—		—		—	
1978 6	13:41:57.52		—	16	36.096	117.836	—	D	—	6.57	—	PAS	—		—		—		—		—		—	
1978 6	23:50:23.93		—	17	36.001	117.865	—	D	—	1.11	—	PAS	—		—		—		—		—		—	
1978 7	5:33:17.37		—	17	36.064	117.814	—	D	—	5.07	—	PAS	—		—		—		—		—		—	
1978 7	5:35:29.73		—	21	36.090	117.832	—	C	—	4.92	—	PAS	—		—		2.7	PAS	—		—		—	
1978 7	15:28:32.40		—	50	36.104	117.606	—	C	—	6.58	—	PAS	—		—		3.4	PAS	—		—		—	
1978 7	15:54:34.96		—	11	36.104	117.588	—	D	—	4.92	—	PAS	—		—		—		—		—		—	
1978 7	16:59:16.87		—	12	36.077	117.636	—	D	—	6.00*	—	PAS	—		—		—		—		—		—	
1978 8	1:20:14.40		—	12	36.079	117.644	—	D	—	6.01	—	PAS	—		—		—		—		—		—	
1978 8	23: 7:18.76		—	9	36.052	117.604	—	D	—	6.00*	—	PAS	—		—		1.7	PAS	—		—		—	
1978 9	1:45:41.49		—	11	36.047	117.618	—	D	—	6.00*	—	PAS	—		—		—		—		—		—	
1978 11	8:35:22.17		—	9	35.914	117.766	—	D	—	6.00*	—	PAS	—		—		1.3	PAS	—		—		—	
1978 11	16:41:29.12		—	19	36.395	117.949	—	C	—	3.67	—	PAS	—		—		2.2	PAS	—		—		—	
1978 14	8: 7:26.85		—	9	36.440	117.912	—	D	—	6.06	—	PAS	—		—		1.8	PAS	—		—		—	
1978 16	14:59:59.60	SIZ	—	16	37.100	116.057	—		—	2.00*	—	PDX	—		—		4.4	PDX	—		3.9	PDX	—	
1978 19	6:14:59.09		—	8	35.850	117.804	—	D	—	3.97	—	PAS	—		—		2.1	PAS	—		—		—	
1978 19	8:32:22.38		—	21	36.119	117.886	—	C	—	6.02	—	PAS	—		—		2.6	PAS	—		—		—	
1978 19	22:31:39.18		—	18	36.124	117.870	—	C	—	5.13	—	PAS	—		—		2.1	PAS	—		—		—	
1978 20	0: 7:55.12		—	45	36.133	117.870	—	D	—	3.28	—	PAS	—		—		3.0	PAS	—		—		—	
1978 20	3:34:50.53		—	12	35.959	117.984	—	D	—	5.08	—	PAS	—		—		2.0	PAS	—		—		—	
1978 24	2:47:15.30		0.12	11	38.426	117.843	—	B	—	15.97	—	RYN	—		—		—		2.8	RYN	—		—	
1978 26	10:56:23.20		0.15	8	36.907	117.461	—		—	7.60	—	RYN	—		—		2.8	PAS	3.1	RYN	—		—	
1978 26	10:59:36.98		—	11	36.918	117.440	—	D	—	5.07	—	PAS	—		—		2.4	PAS	—		—		—	
1978 27	4:29:19.90		0.26	5	37.139	117.853	—		—	—	—	RYN	—		—		3.1	PAS	2.9	RYN	—		—	
1978 28	16:41:47.80		—	28	36.217	117.950	—	B	—	1.96	—	PAS	—		—		2.7	PAS	—		—		—	
1978 28	18:57:37.77		—	5	36.218	117.950	—	D	—	5.00*	—	PAS	—		—		1.8	PAS	—		—		—	
1978 30	7:51:31.71		—	22	36.228	117.904	—	C	—	5.70	—	PAS	—		—		2.1	PAS	—		—		—	
1978 30	8:39:50.14		—	12	36.075	117.825	—	D	—	4.92	—	PAS	—		—		1.5	PAS	—		—		—	
1978 31	11: 7:28.13		—	16	36.032	117.810	—	C	—	5.59	—	PAS	—		—		1.5	PAS	—		—		—	
1978 APR 2	13:12: 6.19		—	35	36.229	117.905	—	B	—	2.85	—	PAS	—		—		2.5	PAS	—		—		—	
1978 3	18:43:59.83		—	10	36.008	116.929	—	D	—	2.91	—	PAS	—		—		2.0	PAS	—		—		—	
1978 4	11:44:15.37		—	15	36.230	117.948	—	D	—	3.97	—	PAS	—		—		2.0	PAS	—		—		—	
1978 5	6:22:57.21		—	13	36.431	117.868	—	D	—	4.92	—	PAS	—		—		2.1	PAS	—		—		—	
1978 10	5:17: 5.16		—	23	35.636	117.419	—	C	—	4.92	—	PAS	—		—		2.3	PAS	—		—		—	
1978 12	1:41:22.87	CSNL	—	13	37.180	116.262	—	D	—	4.36	—	PAS	—		—		2.9	PAS	—		—		—	
1978 12	2:28: 6.05	CSNL	—	8	37.239	116.153	—	D	—	3.52	—	PAS	—		—		2.8	PAS	—		—		—	
1978 12	3:46:56.12	CSNL	—	8	37.174	116.285	—	D	—	6.00*	—	PAS	—		—		3.6	PAS	—		—		—	
1978 20	13:15:47.30		—	5	35.800	114.900	—		—	10.00*	—	PDX	—		—		1.9	PDX	—		—		—	
1978 20	13:18:44.50		—	3	35.800	114.900	—		—	10.00*	—	PDX	—		—		—		—		—		1.9	PDX
1978 MAY 6	6:17:13.99		—	14	35.873	117.804	—	D	—	4.92	—	PAS	—		—		2.4	PAS	—		—		—	
1978 14	20:12: 1.11		—	20	35.997	117.931	—	C	—	1.36	—	PAS	—		—		2.6	PAS	—		—		—	
1978 18	22:16: 9.82		—	13	35.958	117.964	—	D	—	0.61	—	PAS	—		—		2.2	PAS	—		—		—	

SGB HISTORICAL HYPOCENTER SUMMARY 1868-1978

DATE	ORIGIN TIME	HYPOCENTER										INTENSITY		MAGNITUDE									
(UTC)	HR MN SEC	FLAG	RMS	NO	LATITUDE	LONGITUDE	ERH	Q	GAP	DEPTH	ERZ	REF	I	REF	MS	REF	ML	REF	MD	REF	mb	REF	OTH	REF
1978 MAY 27	16:29:23.87		—	9	36.399	116.217	—	D	—	9.96	—	PAS	—		—		—		—		—		—	
1978 31	11:14:40.73		—	34	36.004	117.020	—	D	—	5.95	—	PAS	—		—		2.7	PAS	—		—		—	
1978 JUN 1	17: 0: 3.70	SIZ	0.10	6	37.252	116.088	—		—	1.00*	—	RYN	—		—		3.4	PDX	4.2	RYN	—		—	
1978 7	18:44: 5.48		—	12	35.892	117.374	—	D	—	1.41	—	PAS	—		—		1.9	PAS	—		—		—	
1978 8	23:48:51.99		—	54	35.875	117.365	—	D	—	7.95	—	PAS	—		—		3.4	PAS	—		—		—	
1978 10	10:51:51.74		—	21	36.428	117.561	—	D	—	4.92	—	PAS	—		—		2.5	PAS	—		—		—	
1978 17	22:31:24.19		—	46	35.821	116.524	—	D	—	6.08	—	PAS	—		—		2.8	PAS	—		—		—	
1978 19	6:17:14.30		0.53	8	38.493	115.259	—		—	—	—	RYN	—		—		—		2.3	RYN	—		—	
1978 23	18:28:42.78		—	9	35.895	117.727	—	D	—	5.10	—	PAS	—		—		1.9	PAS	—		—		—	
1978 26	8:17:32.26		—	18	35.798	117.726	—	D	—	5.27	—	PAS	—		—		2.3	PAS	—		—		—	
1978 30	2:47:34.72		—	23	36.333	117.952	—	D	—	5.00*	—	PAS	—		—		2.6	PAS	—		—		—	
1978 JUL 3	23: 3:50.90		—	16	36.072	117.860	—	D	—	3.00*	—	PAS	—		—		2.3	PAS	—		—		—	
1978 4	19:46: 6.89		—	16	35.917	117.959	—	D	—	6.00*	—	PAS	—		—		2.1	PAS	—		—		—	
1978 5	15:31:59.85		—	19	36.098	117.824	—	D	—	5.12	—	PAS	—		—		2.3	PAS	—		—		—	
1978 7	13:59:59.30	SIZ	—	26	37.100	116.010	—		—	2.00*	—	PDX	—		—		4.3	PDX	—		4.0	PDX	—	
1978 13	13:56:30.84		—	8	35.903	117.367	—	D	—	4.66	—	PAS	—		—		2.4	PAS	—		—		—	
1978 20	17:10:47.40		0.14	7	38.434	117.858	—	C	—	14.64	—	RYN	—		—		—		1.4	RYN	—		—	
1978 20	22:56:48.50		—	7	36.017	117.730	—	D	—	9.19	—	PAS	—		—		—		—		—		—	
1978 20	23:14:30.26		—	4	35.794	117.649	—	D	—	4.86	—	PAS	—		—		—		—		—		—	
1978 20	23:25:58.11		—	39	35.890	117.755	—	D	—	4.88	—	PAS	—		—		2.8	PAS	—		—		—	
1978 22	7:15:39.88		—	4	35.858	117.738	—	D	—	5.05	—	PAS	—		—		1.7	PAS	—		—		—	
1978 23	17:56:11.91		—	8	35.710	116.630	—	D	—	5.11	—	PAS	—		—		2.3	PAS	—		—		—	
1978 27	2:36:54.04		—	6	35.984	117.970	—	D	—	5.68	—	PAS	—		—		—		—		—		—	
1978 29	7:53:16.57		—	8	36.028	117.854	—	D	—	4.00*	—	PAS	—		—		1.8	PAS	—		—		—	
1978 29	22:32: 8.10		—	40	38.389	115.229	—		—	5.00*	—	ISC	—		—		4.2	ISC	—		3.9	ISC	—	

APPENDIX C

List of the announced nuclear tests at NTS
19 November 1951 to 31 July 1978

Format description of the announced nuclear tests

Heading	Columns		Description
NAME	01–18		Event name assigned to the nuclear test.
DATE	21–24	(year)	The year, month, and day of the test detonation in Coordinated Universal Time (UTC).
	26–27	(month)	
	29–30	(day)	
TIME	32–33	(hour)	The time in UTC of the test detonation. Zero entries for the hour, minute, and second indicate the time of detonation is unknown.
	35–36	(minutes)	
	38–42	(seconds)	
LATITUDE	46–51		Latitude of the test location in degrees. A dash indicates the coordinate is unknown.
LONGITUDE	55–61		West longitude coordinate of the test location in degrees. A dash indicates the coordinate is unknown.
REF	64–66		Code identifying the primary source of the test location (see table 1 for source code).
TYPE	102–109		Description referring to the method of deployment of the nuclear device. A dash indicates the type is unknown. Explanation of these descriptions are:
		Balloon	A nuclear device suspended from a balloon and exploded in the atmosphere.
		Crater	A nuclear device placed shallow enough underground to produce a throw-out of earth when exploded.
		Shaft	A nuclear device exploded at the bottom of drilled or mined vertical hole.
		Surface	A nuclear device placed on or close to the earth's surface.
		Tower	A nuclear device mounted at the top of a steel or wooden tower and exploded in the atmosphere.
		Tunnel	A nuclear device exploded at the end of a long horizontal drift mined into a mountain or mesa in a way that places the burst point deep within the earth.

Format description of the announced nuclear tests— Continued

Heading	Columns	Description
YIELD	111–123	The total effective energy released in a nuclear explosion. It is usually expressed in terms of equivalent tonnage of TNT required to produce the same energy release in an explosion. NO YIELD means no yield information was released. A dash indicates the yield is not known. KT is the abbreviation for kiloton.
Magnitudes: (see table 1 for source codes)		
M_S	69–71	Surface wave magnitude.
REF	73–75	Source code for the M_S magnitude.
M_L	77–79	Local magnitude (Wood-Anderson).
REF	81–83	Source code for the M_L magnitude.
m_b	85–87	Body wave magnitude.
REF	89–91	Source code for the m_b magnitude.
OTH	93–95	Other magnitudes or magnitudes of an unidentified type.
REF	97–99	Source code for other magnitudes.

ANNOUNCED NUCLEAR TESTS AT NTS 1951-1978

EVENT NAME	DATE (UTC) YEAR	MT	DY	ORIGIN TIME HR	MN	SEC	LOCATION LATITUDE	LONGITUDE	REF	MAGNITUDE MS	REF	ML	REF	MB	REF	OTH	REF	DESCRIPTION TYPE	YIELD
ABLE	1951	10	22	14	0	0.00	37.084	116.024	GPS	—		—		—		—		TOWER	< 0.1KT
SUGAR	1951	11	19	16	59	59.70	37.132	116.039	GPS	—		—		—		—		SURFACE	1.2KT
UNCLE	1951	11	29	19	59	59.70	37.170	116.043	GPS	—		—		—		—		CRATER	1.2KT
EASY	1952	5	7	12	14	59.30	37.053	116.106	GPS	—		—		—		—		TOWER	12KT
FOX	1952	5	25	11	59	59.60	37.096	116.106	GPS	—		—		—		—		TOWER	11KT
GEORGE	1952	6	1	11	54	59.80	37.048	116.021	GPS	—		—		—		—		TOWER	15KT
HOW	1952	6	5	11	55	0.30	37.139	116.118	GPS	—		—		—		—		TOWER	14KT
ANNIE	1953	3	17	13	20	0.30	37.048	116.021	GPS	—		—		—		—		TOWER	16KT
NANCY	1953	3	24	13	10	0.00	37.096	116.103	GPS	—		—		—		—		TOWER	24KT
RUTH	1953	3	31	13	0	0.00	37.083	116.024	GPS	—		—		—		—		TOWER	0.2KT
RAY	1953	4	11	12	44	59.80	37.099	116.092	GPS	—		—		—		—		TOWER	0.2KT
BADGER	1953	4	18	12	35	0.00	37.138	116.118	GPS	—		—		—		—		TOWER	23KT
SIMON	1953	4	25	12	29	59.80	37.053	116.103	GPS	—		—		—		—		TOWER	43KT
HARRY	1953	5	19	12	4	59.50	37.040	116.025	GPS	—		—		—		—		TOWER	32KT
MOTH	1955	2	22	13	45	0.00	37.048	116.021	GPS	—		—		—		—		TOWER	2KT
TESLA	1955	3	1	13	30	0.30	37.109	116.048	GPS	—		—		—		—		TOWER	7KT
TURK	1955	3	7	13	20	0.20	37.138	116.118	GPS	—		—		—		—		TOWER	43KT
HORNET	1955	3	12	13	19	59.80	37.040	116.025	GPS	—		—		—		—		TOWER	4KT
BEE	1955	3	22	13	4	59.90	37.095	116.024	GPS	—		—		—		—		TOWER	8KT
ESS	1955	3	23	20	30	0.00	37.168	116.044	GPS	—		—		—		—		CRATER	1KT
APPLE-1	1955	3	29	12	55	0.10	37.096	116.103	GPS	—		—		—		—		TOWER	14KT
POST	1955	4	9	12	30	0.20	37.122	116.034	GPS	—		—		—		—		TOWER	2KT
MET	1955	4	15	19	15	0.30	36.798	115.929	GPS	—		—		—		—		TOWER	22KT
APPLE-2	1955	5	5	12	10	0.00	36.053	116.103	GPS	—		—		—		—		TOWER	29KT
ZUCCHINI	1955	5	15	11	59	59.90	37.095	116.024	GPS	—		—		—		—		TOWER	28KT
PROJECT 56, NO. 1	1955	11	1	0	0	0.00	—	—	ANT	—		—		—		—		SURFACE	ZERO
PROJECT 56, NO. 2	1955	11	3	0	0	0.00	—	—	ANT	—		—		—		—		SURFACE	ZERO
PROJECT 56, NO. 3	1955	11	5	0	0	0.00	—	—	ANT	—		—		—		—		SURFACE	NO YIELD
PROJECT 56, NO. 4	1956	1	18	21	30	0.00	—	—	ZAK	—		—		—		—		SURFACE	VERY SLIGHT
PROJECT 57, NO. 1	1957	4	24	0	0	0.00	—	—	ANT	—		—		—		—		SURFACE	ZERO
BOLTZMAN	1957	5	28	11	55	0.20	37.095	116.024	GPS	—		—		—		—		TOWER	12KT
FRANKLIN	1957	6	2	11	54	59.90	37.048	116.021	GPS	—		—		—		—		TOWER	140 TONS
LASSEN	1957	6	5	11	45	0.30	37.135	116.041	GPS	—		—		—		—		BALLOON	0.5 TONS
WILSON	1957	6	18	11	45	0.30	37.135	116.041	GPS	—		—		—		—		BALLOON	10KT
PRISCILLA	1957	6	24	13	30	0.10	37.798	115.929	GPS	—		—		—		—		BALLOON	37KT
COULOMB-A	1957	7	1	0	0	0.00	—	—	ANT	—		—		—		—		SURFACE	ZERO
HOOD	1957	7	5	11	40	0.10	37.135	116.041	GPS	—		—		—		—		BALLOON	74KT
DIABLO	1957	7	15	11	30	0.10	37.150	116.109	GPS	—		—		—		—		TOWER	17KT
KEPLER	1957	7	24	11	49	59.90	37.083	116.100	GPS	—		—		—		—		TOWER	10KT
OWENS	1957	7	25	13	29	59.70	37.135	116.041	GPS	—		—		—		—		BALLOON	9.7KT
PASCAL-A	1957	7	26	8	0	0.00	37.052	116.033	LLL	—		—		—		—		SHAFT	SLIGHT
STOKES	1957	8	7	12	25	0.20	37.087	116.024	GPS	—		—		—		—		BALLOON	19KT
SATURN	1957	8	10	0	59	55.10	37.194	116.033	GPS	—		—		—		—		TUNNEL	ZERO
SHASTA	1957	8	18	12	0	0.00	37.128	116.106	GPS	—		—		—		—		TOWER	17KT
DOPPLER	1957	8	23	12	30	0.10	37.087	116.024	GPS	—		—		—		—		BALLOON	11KT
PASCAL-B	1957	8	27	22	35	0.00	37.049	116.034	LLL	—		—		—		—		SHAFT	—
FRANKLIN PRIME	1957	8	30	12	39	59.90	37.087	116.024	GPS	—		—		—		—		BALLOON	4.7KT
SMOKY	1957	8	31	12	30	0.00	37.187	116.068	GPS	—		—		—		—		TOWER	44KT

ANNOUNCED NUCLEAR TESTS AT NTS 1951-1978

EVENT NAME	DATE (UTC) YEAR	MT	DY	ORIGIN TIME HR	MN	SEC	LOCATION LATITUDE	LONGITUDE	REF	MAGNITUDE MS	REF	ML	REF	MB	REF	OTH	REF	DESCRIPTION TYPE	YIELD
GALILEO	1957	9	2	12	40	0.00	37.053	116.103	GPS	—		—		—		—		TOWER	11KT
WHEELER	1957	9	6	12	45	0.00	37.135	116.041	GPS	—		—		—		—		BALLOON	197 TONS
COULOMB-B	1957	9	6	20	5	0.60	—	—	GPS	—		—		—		—		SURFACE	0.3KT
LAPLACE	1957	9	8	12	59	59.80	37.087	116.024	GPS	—		—		—		—		BALLOON	1KT
FIZEAU	1957	9	14	16	44	59.80	37.034	116.031	GPS	—		—		—		—		TOWER	11KT
NEWTON	1957	9	16	12	49	59.90	37.087	116.024	GPS	—		—		—		—		BALLOON	12KT
RAINIER	1957	9	19	16	59	59.50	37.196	116.203	GPS	—		—		—		—		TUNNEL	1.7KT
WHITNEY	1957	9	23	12	29	59.80	37.138	116.118	GPS	—		—		—		—		TOWER	19KT
CHARLESTON	1957	9	28	12	59	59.90	37.135	116.041	GPS	—		—		—		—		BALLOON	12KT
MORGAN	1957	10	7	13	0	0.00	37.135	116.041	GPS	—		—		—		—		BALLOON	8KT
PASCAL-C	1957	12	6	20	15	0.00	37.050	116.031	LLL	—		—		—		—		SHAFT	SLIGHT
COULOMB-C	1957	12	9	20	0	0.00	—	—	ZAK	—		—		—		—		SURFACE	0.5KT
VENUS	1958	2	22	0	0	0.00	—	—	LLL	—		—		—		—		TUNNEL	< 1 TON
URANUS	1958	3	14	0	0	0.00	—	—	LLL	—		—		—		—		TUNNEL	< 1 TON
OTERO	1958	9	12	20	0	0.20	37.050	116.032	GPS	—		—		—		—		SHAFT	38 TONS
BERNALILLO	1958	9	17	19	30	0.20	37.049	116.033	GPS	—		—		—		—		SHAFT	15 TONS
EDDY	1958	9	19	14	0	0.20	37.087	116.024	GPS	—		—		—		—		BALLOON	83 TONS
LUNA	1958	9	21	19	0	0.20	37.049	116.034	GPS	—		—		—		—		SHAFT	1.5 TONS
MERCURY	1958	9	23	0	0	0.00	—	—	LLL	—		—		—		—		TUNNEL	SLIGHT
VALENCIA	1958	9	26	20	0	0.20	37.050	116.030	GPS	—		—		—		—		SHAFT	2 TONS
MARS	1958	9	28	0	0	0.20	37.193	116.200	GPS	—		—		—		—		TUNNEL	13 TONS
MORA	1958	9	29	14	5	0.10	37.087	116.024	GPS	—		—		—		—		BALLOON	2KT
HIDALGO	1958	10	5	14	10	0.10	37.087	116.024	GPS	—		—		—		—		BALLOON	77 TONS
COLFAX	1958	10	5	16	15	0.20	37.049	116.034	GPS	—		—		—		—		SHAFT	5.5 TONS
TAMALPIAS	1958	10	8	22	0	0.10	37.195	116.200	GPS	—		—		—		—		TUNNEL	72 TONS
QUAY	1958	10	10	14	30	0.10	37.095	116.024	GPS	—		—		—		—		TOWER	79 TONS
LEA	1958	10	13	13	20	0.10	37.087	116.024	GPS	—		—		—		—		BALLOON	1.4KT
NEPTUNE	1958	10	14	18	0	0.20	37.194	116.200	GPS	—		—		—		—		TUNNEL	115 TONS
HAMILTON	1958	10	15	16	0	0.20	36.802	115.932	GPS	—		—		—		—		TOWER	1.2 TONS
LOGAN	1958	10	16	6	0	0.10	37.184	116.201	GPS	—		—		—		—		TUNNEL	5KT
DONA ANA	1958	10	16	14	20	0.10	37.087	116.024	GPS	—		—		—		—		BALLOON	37 TONS
VESTA	1958	10	17	23	0	0.20	37.123	116.035	GPS	—		—		—		—		SURFACE	24 TONS
RIO ARRIBA	1958	10	18	14	25	0.10	37.041	116.026	GPS	—		—		—		—		TOWER	90 TONS
SAN JUAN	1958	10	20	14	30	0.00	37.050	116.033	LLL	—		—		—		—		SHAFT	ZERO
SOCORRO	1958	10	22	13	30	0.20	37.087	116.024	GPS	—		—		—		—		BALLOON	6KT
WRANGELL	1958	10	22	16	50	0.10	36.798	115.929	GPS	—		—		—		—		BALLOON	115 TONS
RUSHMORE	1958	10	22	23	40	0.10	37.135	116.041	GPS	—		—		—		—		BALLOON	188 TONS
OBERON	1958	10	22	0	0	0.00	—	—	ANT	—		—		—		—		TOWER	ZERO
CATRON	1958	10	24	15	0	0.20	37.043	116.027	GPS	—		—		—		—		TOWER	21 TONS
JUNO	1958	10	24	16	1	0.20	37.123	116.038	GPS	—		—		—		—		SURFACE	1.7 TONS
CERES	1958	10	26	4	0	0.20	37.181	116.069	GPS	—		—		—		—		TOWER	0.7 TONS
SANFORD	1958	10	26	10	20	0.10	36.798	115.929	GPS	—		—		—		—		BALLOON	4.9KT
DE BACA	1958	10	26	16	0	0.10	37.087	116.024	GPS	—		—		—		—		BALLOON	2.2KT
CHAVEZ	1958	10	27	14	30	0.20	37.045	116.030	GPS	—		—		—		—		TOWER	0.6 TONS
EVANS	1958	10	29	0	0	0.20	37.195	116.205	GPS	—		—		—		—		TUNNEL	55 TONS
HUMBOLDT	1958	10	29	14	45	0.10	37.048	116.025	GPS	—		—		—		—		TOWER	7.8 TONS
MAZAMA	1958	10	29	0	0	0.00	—	—	ANT	—		—		—		—		TOWER	ZERO
SANTA FE	1958	10	30	3	0	0.10	37.087	116.024	GPS	—		—		—		—		BALLOON	1.3KT

ANNOUNCED NUCLEAR TESTS AT NTS 1951-1978

EVENT NAME	DATE (UTC) YEAR	MT	DY	ORIGIN TIME HR	MN	SEC	LOCATION LATITUDE	LONGITUDE	REF	MAGNITUDE MS	REF	ML	REF	MB	REF	OTH	REF	DESCRIPTION TYPE	YIELD
BLANCA	1958	10	30	15	0	0.20	37.186	116.202	GPS	—		—		—		—		TUNNEL	22KT
GANYMEDE	1958	10	30	0	0	0.00	—	—	ANT	—		—		—		—		SURFACE	ZERO
TITANIA	1958	10	30	20	34	0.20	37.177	116.069	GPS	—		—		—		—		TOWER	0.2 TONS
ANTLER	1961	9	15	17	0	0.00	37.188	116.208	SPK	—		—		—		—		TUNNEL	2.6KT
SHREW	1961	9	16	19	45	0.10	37.048	116.034	SPK	—		—		—		—		SHAFT	< 20KT
BOOMER	1961	10	1	22	30	0.10	37.048	116.035	LLL	—		—		—		—		SHAFT	< 20KT
CHENA	1961	10	10	18	0	0.10	37.194	116.207	SPK	—		—		—		—		TUNNEL	< 20KT
MINK	1961	10	29	18	30	0.10	37.048	116.031	SPK	—		—		—		—		SHAFT	< 20KT
FISHER	1961	12	3	23	4	59.60	37.045	116.028	SPK	—		—		—		—		SHAFT	13.4KT
MAD	1961	12	13	18	0	0.20	37.127	116.048	SPK	—		—		—		—		SHAFT	0.5KT
RINGTAIL	1961	12	17	16	35	0.10	37.043	116.026	SPK	—		—		—		—		SHAFT	< 20KT
FEATHER	1961	12	22	16	30	0.10	37.195	116.208	SPK	—		—		—		—		TUNNEL	< 20KT
STOAT	1962	1	9	16	30	0.10	37.044	116.035	SPK	—		—		—		—		SHAFT	5.1KT
AGOUTI	1962	1	18	18	0	0.10	37.047	116.034	SPK	—		—		—		—		SHAFT	6.4KT
DORMOUSE	1962	1	30	18	0	0.10	37.047	116.039	SPK	—		—		—		—		SHAFT	< 20KT
STILLWATER	1962	2	8	18	0	0.20	37.127	116.052	SPK	—		—		—		—		SHAFT	3.07KT
ARMADILLO	1962	2	9	16	30	0.10	37.043	116.038	SPK	—		—		—		6.2	PDX	SHAFT	7.1KT
HARD HAT	1962	2	15	18	0	0.10	37.227	116.059	SPK	—		—		—		—		SHAFT	5.7KT
CHINCHILLA	1962	2	19	16	30	0.10	37.049	116.029	SPK	—		—		—		—		SHAFT	1.9KT
CODSAW	1962	2	19	17	50	0.20	37.127	116.037	SPK	—		—		—		—		SHAFT	< 20KT
CIMARRON	1962	2	23	18	0	0.20	37.128	116.048	SPK	—		—		—		—		SHAFT	11.9KT
PLATYPUS	1962	2	24	16	30	0.10	37.048	116.032	SPK	—		—		—		—		SHAFT	< 20KT
PAMPAS	1962	3	1	19	10	0.10	37.041	116.029	SPK	—		—		—		—		SHAFT	< 20KT
DANNY BOY	1962	3	5	18	15	0.10	37.111	116.365	SPK	—		—		—		—		CRATER	0.43KT
ERMINE	1962	3	6	16	30	0.10	37.048	116.034	SPK	—		—		—		—		SHAFT	< 20KT
BRAZOS	1962	3	8	18	0	0.20	37.122	116.049	SPK	—		—		—		—		SHAFT	8.4KT
HOGNOSE	1962	3	15	16	30	0.10	37.044	116.031	SPK	—		—		—		—		SHAFT	< 20KT
HOOSIC	1962	3	28	18	0	0.20	37.124	116.034	SPK	—		—		—		—		SHAFT	3.4KT
CHINCHILLA II	1962	3	31	18	0	0.10	37.047	116.037	SPK	—		—		—		—		SHAFT	< 20KT
DORMOUSE II	1962	4	5	18	0	0.10	37.045	116.023	SPK	—		—		—		—		SHAFT	10.6KT
PASSAIC	1962	4	6	18	0	0.20	37.118	116.044	SPK	—		—		—		—		SHAFT	< 20KT
HUDSON	1962	4	12	18	0	0.20	37.127	116.045	SPK	—		—		—		—		SHAFT	< 20KT
PLATTE	1962	4	14	18	0	0.10	37.222	116.157	SPK	—		—		—		—		TUNNEL	1.85KT
DEAD	1962	4	21	18	40	0.20	37.118	116.032	SPK	—		—		—		—		SHAFT	< 20KT
BLACK	1962	4	27	18	0	0.20	37.118	116.038	SPK	—		—		—		—		SHAFT	< 20KT
PACA	1962	5	7	19	33	0.10	37.047	116.025	SPK	—		—		—		—		SHAFT	< 20KT
ARIKAREE	1962	5	10	15	0	0.20	37.128	116.048	LLL	—		—		—		—		SHAFT	< 20KT
AARDVARK	1962	5	12	19	0	0.10	37.065	116.030	SPK	—		—		—		—		SHAFT	40KT
EEL	1962	5	19	15	0	0.20	37.123	116.047	SPK	—		—		—		—		SHAFT	< 20KT
WHITE	1962	5	25	15	0	0.20	37.125	116.052	SPK	—		—		—		—		SHAFT	< 20KT
RACCOON	1962	6	1	17	0	0.10	37.045	116.034	SPK	—		—		—		—		SHAFT	< 20KT
PACKRAT	1962	6	6	17	0	0.10	37.046	116.039	SPK	—		—		—		—		SHAFT	< 20KT
DES MOINES	1962	6	13	21	0	0.10	37.222	116.162	SPK	—		—		—		—		TUNNEL	< 20KT
DAMAN I	1962	6	21	17	0	0.10	37.043	116.030	SPK	—		—		—		—		SHAFT	< 20KT
HAYMAKER	1962	6	27	18	0	0.10	37.042	116.035	SPK	—		—		—		—		SHAFT	87KT
MARSHMALLOW	1962	6	28	17	0	0.10	37.009	116.202	SPK	—		—		—		—		TUNNEL	< 20KT
SACRAMENTO	1962	6	30	21	30	0.20	37.117	116.047	SPK	—		—		—		—		SHAFT	< 20KT
SEDAN	1962	7	6	17	0	0.10	37.177	116.045	SPK	—		—		—		—		CRATER	104KT

ANNOUNCED NUCLEAR TESTS AT NTS 1951-1978

EVENT NAME	DATE (UTC) YEAR	MT	DY	ORIGIN TIME HR	MN	SEC	LOCATION LATITUDE	LONGITUDE	REF	MAGNITUDE MS	REF	ML	REF	MB	REF	OTH	REF	DESCRIPTION TYPE	YIELD
LITTLE FELLER II	1962	7	7	19:	0:	0.10	37.119	116.303	CGS	—		—		—		—		SURFACE	< 20KT
JOHNNIE BOY	1962	7	11	16:	45:	0.10	37.122	116.333	SPK	—		—		—		—		CRATER	0.5KT
MERRIMAC	1962	7	13	16:	0:	0.20	37.055	116.033	SPK	—		—		—		—		SHAFT	20 TO 200KT
SMALL BOY	1962	7	14	18:	30:	0.10	36.800	115.925	PDX	—		—		—		—		TOWER	< 20KT
LITTLE FELLER I	1962	7	17	17:	0:	0.50	37.109	116.317	CGS	—		—		—		—		SURFACE	< 20KT
WICHITA	1962	7	27	21:	0:	0.20	37.130	116.056	SPK	—		—		—		—		SHAFT	< 20KT
YORK	1962	8	24	15:	0:	0.10	37.119	116.039	SPK	—		—		—		—		SHAFT	< 20KT
BOBAC	1962	8	24	17:	0:	0.10	37.046	116.024	SPK	—		—		—		—		SHAFT	< 20KT
RARITAN	1962	9	6	17:	0:	0.20	37.130	116.045	LLL	—		—		—		—		SHAFT	< 20KT
HYRAX	1962	9	14	17:	10:	0.10	37.043	116.021	SPK	—		—		—		—		SHAFT	< 20KT
PEBA	1962	9	20	17:	0:	0.10	37.055	116.029	SPK	—		—		—		—		SHAFT	< 20KT
ALLEGHENY	1962	9	29	17:	0:	0.20	37.117	116.033	SPK	—		—		—		—		SHAFT	< 20KT
MISSISSIPPI	1962	10	5	17:	0:	0.20	37.139	116.050	SPK	—		—		—		—		SHAFT	115KT
ROANOKE	1962	10	12	15:	0:	0.20	37.122	116.051	SPK	—		—		—		—		SHAFT	< 20KT
WOLVERINE	1962	10	12	17:	0:	0.10	37.049	116.033	LLL	—		—		—		—		SHAFT	< 20KT
TIOGA	1962	10	18	15:	0:	0.10	37.129	116.040	LLL	—		—		—		—		SHAFT	< 20KT
BANDICOOT	1962	10	19	18:	0:	0.10	37.039	116.021	SPK	—		—		—		—		SHAFT	< 20KT
SANTEE	1962	10	27	15:	0:	0.10	37.149	116.053	SPK	—		—		—		—		SHAFT	< 20KT
ST. LAWRENCE	1962	11	9	18:	0:	0.20	37.164	116.073	LLL	—		—		—		—		SHAFT	< 20KT
GUNDI	1962	11	15	16:	30:	0.10	37.041	116.024	LLL	—		—		—		—		SHAFT	< 20KT
ANACOSTIA	1962	11	27	18:	0:	0.10	37.123	116.028	SPK	—		—		—		—		SHAFT	< 20KT
TAUNTON	1962	12	4	16:	0:	0.10	37.128	116.050	LLL	—		—		—		—		SHAFT	< 20KT
TENDRAC	1962	12	7	19:	0:	0.10	37.052	116.030	SPK	—		—		—		—		SHAFT	< 20KT
MADISON	1962	12	12	17:	25:	0.00	37.169	116.206	SPK	—		—		—		—		TUNNEL	< 20KT
NUMBAT	1962	12	12	18:	45:	0.10	37.046	116.015	SPK	—		—		—		—		SHAFT	< 20KT
MANATEE	1962	12	14	18:	0:	0.20	37.124	116.040	LLL	—		—		—		—		SHAFT	< 20KT
CASSELMAN	1963	2	8	16:	0:	0.20	37.149	116.052	SPK	—		—		—		—		SHAFT	< 20KT
HATCHIE	1963	2	8	16:	0:	1.20	37.126	116.039	LLL	—		—		—		—		SHAFT	< 20KT
FERRET	1963	2	8	18:	30:	0.10	37.058	116.029	LLL	—		—		—		—		SHAFT	< 20KT
ACUSHI	1963	2	8	18:	30:	0.10	37.046	116.021	SPK	—		—		—		—		SHAFT	< 20KT
CHIPMUNK	1963	2	15	17:	0:	0.10	37.049	116.032	LLL	—		—		—		—		SHAFT	< 20KT
KAWEAH	1963	2	21	19:	47:	0.10	37.120	116.046	SPK	—		—		—		—		SHAFT	< 20KT
CARMEL	1963	2	21	19:	47:	8.60	37.155	116.080	SPK	—		—		—		—		SHAFT	< 20KT
JERBOA	1963	3	1	19:	0:	0.10	37.045	116.026	LLL	—		—		—		—		SHAFT	< 20KT
TOYAH	1963	3	15	16:	22:	53.10	37.126	116.045	LLL	—		—		—		—		SHAFT	< 20KT
GERBIL	1963	3	29	15:	49:	0.10	37.042	116.018	SPK	—		—		—		—		SHAFT	< 20KT
FERRET PRIME	1963	4	5	17:	52:	0.10	37.037	116.024	SPK	—		—		—		—		SHAFT	< 20KT
COYPU	1963	4	10	16:	1:	30.10	37.049	116.030	LLL	—		—		—		—		SHAFT	< 20KT
CUMBERLAND	1963	4	11	16:	3:	0.20	37.157	116.071	LLL	—		—		—		—		SHAFT	< 20KT
KOOTANAI	1963	4	24	16:	9:	30.10	37.121	116.036	LLL	—		—		—		—		SHAFT	< 20KT
PAISANO	1963	4	24	16:	9:	30.10	37.121	116.036	LLL	—		—		—		—		SHAFT	< 20KT
GUNDI PRIME	1963	5	9	18:	19:	30.10	37.049	116.016	LLL	—		—		—		—		SHAFT	< 20KT
DOUBLE TRACKS	1963	5	15	0:	0:	0.00	—	—	ANT	—		—		—		—		SURFACE	ZERO
HARKEE	1963	5	17	14:	55:	0.10	37.044	116.016	LLL	—		—		—		—		SHAFT	< 20KT
TEJON	1963	5	17	14:	55:	0.10	37.048	116.032	LLL	—		—		—		—		SHAFT	< 20KT
STONES	1963	5	22	15:	40:	0.10	37.111	116.039	SPK	—		—		—		—		SHAFT	20 TO 200KT
CLEAN SLATE I	1963	5	25	0:	0:	0.00	—	—	ANT	—		—		—		—		SURFACE	ZERO
PLEASANT	1963	5	29	15:	3:	30.20	37.128	116.042	LLL	—		—		—		—		SHAFT	< 20KT

ANNOUNCED NUCLEAR TESTS AT NTS 1951-1978

EVENT NAME	DATE (UTC) YEAR	MT	DY	ORIGIN TIME HR	MN	SEC	LOCATION LATITUDE	LONGITUDE	REF	MAGNITUDE MS	REF	ML	REF	MB	REF	OTH	REF	DESCRIPTION TYPE	YIELD
CLEAN SLATE II	1963	5	31	0:	0:	0.00	—	—	ANT	—		—		—		—		SURFACE	ZERO
YUBA	1963	6	5	17:	0:	0.10	37.196	116.209	SPK	—		—		—		—		TUNNEL	< 20KT
HUTIA	1963	6	6	14:	0:	0.10	37.045	116.036	SPK	—		—		—		—		SHAFT	< 20KT
APSHAPA	1963	6	6	16:	58:	0.20	37.125	116.040	LLL	—		—		—		—		SHAFT	< 20KT
CLEAN SLATE III	1963	6	9	0:	0:	0.00	—	—	ANT	—		—		—		—		SURFACE	ZERO
MATACO	1963	6	14	14:	10:	0.10	37.046	116.018	SPK	—		—		—		—		SHAFT	< 20KT
KENNEBEC	1963	6	25	23:	0:	0.20	37.131	116.068	SPK	—		—		—		—		SHAFT	< 20KT
PEKAN	1963	8	12	23:	45:	0.10	37.042	116.016	SPK	—		—		—		—		SHAFT	< 20KT
SATSOP	1963	8	15	13:	0:	0.20	37.154	116.077	SPK	—		—		—		—		SHAFT	< 20KT
KOHOCTON	1963	8	23	13:	20:	0.10	37.125	116.035	SPK	—		—		—		—		SHAFT	< 20KT
AHTANUM	1963	9	13	13:	53:	0.20	37.163	116.081	SPK	—		—		—		—		SHAFT	< 20KT
BILBY	1963	9	13	17:	0:	0.10	37.060	116.022	SPK	—		—		—		—		SHAFT	249KT
GRUNION	1963	10	11	14:	0:	0.10	37.037	116.021	SPK	—		—		—		—		SHAFT	< 20KT
TORNILLO	1963	10	11	21:	0:	0.20	37.119	116.034	SPK	—		—		—		—		SHAFT	< 20KT
CLEARWATER	1963	10	16	17:	0:	0.10	37.198	116.230	SPK	—		—		—		—		SHAFT	20 TO 200KT
ANCHOVY	1963	11	14	16:	0:	0.10	37.040	116.019	SPK	—		—		—		—		SHAFT	< 20KT
MUSTANG	1963	11	15	15:	0:	0.20	37.132	116.046	SPK	—		—		—		—		SHAFT	< 20KT
GREYS	1963	11	22	17:	30:	0.10	37.119	116.045	SPK	—		—		—		—		SHAFT	20 TO 200KT
SARDINE	1963	12	4	16:	38:	30.10	37.039	116.029	SPK	—		—		—		—		SHAFT	< 20KT
EAGLE	1963	12	12	16:	2:	0.10	37.131	116.043	SPK	—		—		—		—		SHAFT	< 20KT
FORE	1964	1	16	16:	0:	0.10	37.142	116.048	SPK	—		—		—		—		SHAFT	20 TO 200KT
OCONTO	1964	1	23	16:	0:	0.20	37.126	116.036	SPK	—		—		—		—		SHAFT	< 20KT
KLICKITAT	1964	2	20	15:	30:	0.10	37.151	116.040	SPK	—		—		—		—		SHAFT	20 TO 200KT
PIKE	1964	3	13	16:	2:	0.10	37.050	116.011	SPK	—		—		—		—		SHAFT	< 20KT
HOOK	1964	4	14	14:	40:	0.10	37.129	116.030	SPK	—		—		—		—		SHAFT	< 20KT
STURGEON	1964	4	15	14:	30:	0.10	37.044	116.018	SPK	—		—		—		—		SHAFT	< 20KT
TURF	1964	4	24	20:	10:	0.20	37.150	116.055	SPK	—		—		—		—		SHAFT	20 TO 200KT
PIPEFISH	1964	4	29	20:	47:	0.10	37.040	116.027	SPK	—		—		—		—		SHAFT	< 20KT
BACKSWING	1964	5	14	14:	40:	0.20	37.117	116.039	SPK	—		—		—		—		SHAFT	< 20KT
MINNOW	1964	5	15	16:	15:	0.10	37.042	116.012	SPK	—		—		—		—		SHAFT	< 20KT
ACE	1964	6	11	16:	45:	0.20	37.149	116.076	SPK	—		—		—		—		SHAFT	< 20KT
FADE	1964	6	25	13:	30:	0.10	37.111	116.029	SPK	—		—		—		—		SHAFT	< 20KT
DUB	1964	6	30	13:	33:	0.10	37.174	116.056	SPK	—		—		—		—		SHAFT	< 20KT
BYE	1964	7	16	13:	15:	0.20	37.182	116.045	SPK	—		—		—		—		SHAFT	20 TO 200KT
CORMORANT	1964	7	17	17:	18:	30.00	37.018	116.030	SPK	—		—		—		—		SHAFT	< 20KT
ALVA	1964	8	19	16:	0:	0.10	37.159	116.083	SPK	—		—		—		—		SHAFT	< 20KT
CANVASBACK	1964	8	22	22:	17:	0.10	37.065	116.015	SPK	—		—		—		—		SHAFT	< 20KT
HADDOCK	1964	8	28	17:	6:	0.00	37.067	116.023	SPK	—		—		—		—		SHAFT	< 20KT
GUANAY	1964	9	4	18:	15:	0.10	37.018	116.023	SPK	—		—		—		—		SHAFT	< 20KT
AUK	1964	10	2	20:	3:	0.00	37.078	116.008	SPK	—		—		—		—		SHAFT	< 20KT
PAR	1964	10	9	14:	0:	0.10	37.151	116.077	SPK	—		—		—		—		SHAFT	38KT
BARBEL	1964	10	16	15:	59:	30.00	37.039	116.016	SPK	—		—		—		—		SHAFT	< 20KT
FOREST	1964	10	31	17:	4:	58.60	37.107	116.032	SPK	—		—		—		—		SHAFT	< 20KT
HANDCAR	1964	11	5	15:	0:	0.10	37.174	116.067	SPK	—		—		—		—		SHAFT	12KT
CREPE	1964	12	5	21:	15:	0.10	37.114	116.053	SPK	—		—		—		—		SHAFT	20 TO 200KT
DRILL	1964	12	5	21:	15:	0.00	37.134	116.070	LLL	—		—		—		—		SHAFT	3.4KT
PARROT	1964	12	16	20:	0:	0.00	37.035	116.012	SPK	—		—		—		—		SHAFT	1.3KT
MUDPACK	1964	12	16	20:	10:	0.10	37.178	116.067	SPK	—		—		—		—		SHAFT	2.7KT

ANNOUNCED NUCLEAR TESTS AT NTS 1951-1978

EVENT NAME	DATE (UTC) YEAR	MT	DY	ORIGIN TIME HR	MN	SEC	LOCATION LATITUDE	LONGITUDE	REF	MAGNITUDE MS	REF	ML	REF	MB	REF	OTH	REF	DESCRIPTION TYPE	YIELD
SULKY	1964	12	18	19	35	0.10	37.083	116.342	SPK	—		—		—		—		SHAFT	0.092KT
WOOL	1965	1	14	16	0	0.10	37.119	116.025	SPK	—		—		—		—		SHAFT	< 20KT
CASHMERE	1965	2	4	15	30	0.10	37.131	116.062	SPK	—		—		—		—		SHAFT	< 20KT
ALPACA	1965	2	12	15	10	29.50	37.165	116.077	SPK	—		—		—		—		SHAFT	< 20KT
MERLIN	1965	2	16	17	30	0.00	37.051	116.024	SPK	—		—		—		—		SHAFT	10.1KT
WISHBONE	1965	2	18	16	18	47.20	36.818	115.949	SPK	—		—		—		—		SHAFT	< 20KT
WAGTAIL	1965	3	3	19	13	0.00	37.064	116.037	SPK	—		—		—		—		SHAFT	20 TO 200KT
CUP	1965	3	26	15	34	8.20	37.148	116.043	SPK	—		—		—		—		SHAFT	20 TO 200KT
KESTREL	1965	4	5	21	0	0.00	37.026	116.023	SPK	—		—		—		—		SHAFT	< 20KT
PALANQUIN	1965	4	14	13	14	0.10	37.280	116.524	SPK	—		—		—		—		CRATER	4.3KT
GUMDROP	1965	4	21	22	0	0.00	37.007	116.202	SPK	—		—		—		—		TUNNEL	< 20KT
MUSCOVY	1965	4	23	21	44	0.40	37.017	115.995	ISC	—		—		—		—		—	—
TEE	1965	5	7	15	47	11.20	37.141	116.067	SPK	—		—		—		—		SHAFT	< 20KT
BUTEO	1965	5	12	18	15	0.10	37.243	116.431	SPK	—		—		—		—		SHAFT	< 20KT
CAMBRIC	1965	5	14	14	57	52.20	36.823	115.967	LLL	—		—		—		—		SHAFT	0.75KT
SCAUP	1965	5	14	17	32	36.20	37.059	116.010	SPK	—		—		—		—		SHAFT	< 20KT
TWEED	1965	5	21	13	8	52.10	37.119	116.028	SPK	—		—		—		—		SHAFT	< 20KT
PETREL	1965	6	11	19	45	0.00	37.043	116.017	SPK	—		—		—		—		SHAFT	1.3KT
DILUTED WATERS	1965	6	16	16	30	0.20	36.818	115.956	SPK	—		—		—		—		SHAFT	< 20KT
TINY TOT	1965	6	17	17	0	0.10	37.223	116.057	SPK	—		—		—		—		TUNNEL	< 20KT
BRONZE	1965	7	23	17	0	0.00	37.098	116.033	SPK	—		—		—		—		SHAFT	20 TO 200KT
MAUVE	1965	8	6	17	23	30.00	37.018	116.040	SPK	—		—		—		—		SHAFT	< 20KT
CENTAUR	1965	8	27	13	51	13.10	37.137	116.070	SPK	—		—		—		—		SHAFT	< 20KT
SCREAMER	1965	9	1	20	8	0.00	37.023	116.009	SPK	—		—		—		—		SHAFT	< 20KT
CHARCOAL	1965	9	10	17	12	0.00	37.078	116.017	SPK	—		—		—		—		SHAFT	20 TO 200KT
ELKHART	1965	9	17	15	8	23.10	37.111	116.035	SPK	—		—		—		—		SHAFT	< 20KT
SEPIA	1965	11	12	18	0	0.10	37.050	116.022	SPK	—		—		—		—		SHAFT	< 20KT
CORDUROY	1965	12	3	15	13	2.10	37.165	116.052	SPK	—		—		—		—		SHAFT	20 TO 200KT
EMERSON	1965	12	16	15	39	18.20	37.141	116.063	SPK	—		—		—		—		SHAFT	< 20KT
BUFF	1965	12	16	19	15	0.00	37.073	116.029	SPK	—		—		—		—		SHAFT	20 TO 200KT
MAXWELL	1966	1	13	15	37	43.10	37.116	116.028	SPK	—		—		—		—		SHAFT	< 20KT
LAMPBLACK	1966	1	18	18	35	0.00	37.092	116.019	SPK	—		—		—		—		SHAFT	20 TO 200KT
DOVEKIE	1966	1	21	18	28	0.00	37.032	116.015	SPK	—		—		—		—		SHAFT	< 20KT
PLAID II	1966	2	3	18	17	37.10	37.126	116.069	SPK	—		—		4.3	PDX	—		SHAFT	< 20KT
REX	1966	2	24	15	55	7.00	37.272	116.433	SPK	—		—		4.8	PDX	—		SHAFT	19KT
RED HOT	1966	3	5	18	15	0.10	37.175	116.208	SPK	—		—		—		—		TUNNEL	< 20KT
FINFOOT	1966	3	7	18	41	0.10	37.037	116.029	SPK	—		—		—		—		SHAFT	< 20KT
CLYMER	1966	3	12	18	4	13.10	37.143	116.052	SPK	—		—		—		—		SHAFT	< 20KT
PURPLE	1966	3	18	19	0	0.00	37.009	116.009	SPK	—		—		—		—		SHAFT	< 20KT
TEMPLAR	1966	3	24	14	55	28.10	37.113	116.031	SPK	—		—		—		—		SHAFT	< 20KT
LIME	1966	4	1	18	40	0.00	37.102	116.020	SPK	—		—		—		—		SHAFT	< 20KT
STUTZ	1966	4	6	13	57	17.10	37.139	116.141	SPK	—		—		—		—		SHAFT	< 20KT
TOMATO	1966	4	7	22	27	30.00	37.018	115.992	SPK	—		—		—		—		SHAFT	< 20KT
DURYEA	1966	4	14	14	13	43.10	37.242	116.431	SPK	—		—		—		—		SHAFT	70KT
PIN STRIPE	1966	4	25	18	38	0.00	36.887	115.940	SPK	—		—		—		—		SHAFT	< 20KT
TRAVELER	1966	5	4	13	32	17.00	37.137	116.137	SPK	—		—		5.5	PDX	—		SHAFT	< 20KT
CYCLAMEN	1966	5	5	14	0	0.00	37.051	116.037	SPK	—		—		4.2	PDX	—		SHAFT	12KT
CHARTREUSE	1966	5	6	15	0	0.10	37.347	116.322	SPK	—		—		—		—		SHAFT	73KT

ANNOUNCED NUCLEAR TESTS AT NTS 1951-1978

EVENT NAME	DATE (UTC) YEAR	MT	DY	ORIGIN TIME HR	MN	SEC	LOCATION LATITUDE	LONGITUDE	REF	MAGNITUDE MS	REF	ML	REF	MB	REF	OTH	REF	DESCRIPTION TYPE	YIELD
TAPESTRY	1966	5	12	19	37	26.20	37.134	116.071	SPK	—		—		4.2	PDX	—		SHAFT	< 20KT
PIRANHA	1966	5	13	13	30	0.00	37.086	116.033	SPK	—		—		5.6	PDX	—		SHAFT	20 TO 200KT
DUMONT	1966	5	19	13	56	28.10	37.111	116.058	SPK	—		—		5.8	PDX	—		SHAFT	20 TO 200KT
DISCUS THROWER	1966	5	27	20	0	0.00	37.179	116.097	SPK	—		—		5.1	PDX	—		SHAFT	22KT
PILE DRIVER	1966	6	2	15	30	0.10	37.227	116.055	SPK	—		—		—		—		TUNNEL	62KT
TAN	1966	6	3	14	0	0.00	37.069	116.035	SPK	—		—		—		—		SHAFT	20 TO 200KT
PUCE	1966	6	10	14	30	0.00	37.059	116.038	SPK	—		—		—		—		SHAFT	< 20KT
DOUBLE PLAY	1966	6	15	17	0	0.00	37.010	116.202	SPK	—		—		—		—		TUNNEL	< 20KT
KANKAKEE	1966	6	15	18	2	47.10	37.172	116.049	SPK	—		—		—		—		SHAFT	20 TO 200KT
VULCAN	1966	6	25	17	13	0.10	37.155	116.072	SPK	—		—		—		—		SHAFT	25KT
HALFBEAK	1966	6	30	22	15	0.10	37.315	116.298	SPK	—		—		—		—		SHAFT	365KT
SAXON	1966	7	28	15	33	30.10	37.141	116.098	SPK	—		—		—		—		SHAFT	< 20KT
ROVENA	1966	8	10	13	16	0.10	37.169	116.047	SPK	—		—		—		—		SHAFT	< 20KT
DERRINGER	1966	9	12	15	30	0.50	36.877	115.951	SPK	—		—		—		—		SHAFT	< 20KT
DAIQUIRI	1966	9	23	18	0	0.00	37.021	116.036	SPK	—		—		—		—		SHAFT	< 20KT
NEWARK	1966	9	29	14	45	30.10	37.169	116.045	SPK	—		—		4.1	PDX	—		SHAFT	< 20KT
SIMMS	1966	11	5	14	45	0.10	37.170	116.047	SPK	—		—		—		—		SHAFT	< 20KT
AJAX	1966	11	11	12	0	0.10	37.134	116.049	SPK	—		—		—		—		SHAFT	< 20KT
CERISE	1966	11	18	15	2	0.00	37.042	116.010	SPK	—		—		—		—		SHAFT	< 20KT
NEW POINT	1966	12	13	21	0	0.10	36.877	115.937	SPK	—		—		4.6	PDX	—		SHAFT	< 20KT
GREELEY	1966	12	20	15	30	0.10	37.302	116.408	SPK	—		—		6.3	PDX	—		SHAFT	870KT
NASH	1967	1	19	16	45	0.10	37.144	116.135	SPK	—		—		5.4	PDX	—		SHAFT	20 TO 200KT
BOURBON	1967	1	20	17	40	3.40	37.100	116.004	SPK	—		—		5.2	PDX	—		SHAFT	20 TO 200KT
WARD	1967	2	8	15	15	0.10	37.168	116.047	SPK	—		—		4.8	PDX	—		SHAFT	< 20KT
PERSIMMON	1967	2	23	18	34	0.00	37.018	116.016	SPK	—		—		4.4	PDX	4.2	PDX	SHAFT	< 20KT
AGILE	1967	2	23	18	50	0.10	37.127	116.066	SPK	—		—		5.8	PDX	—		SHAFT	20 TO 200KT
RIVET III	1967	3	2	15	0	0.10	37.116	116.049	SPK	—		—		4.2	PDX	—		SHAFT	< 20KT
FAWN	1967	4	7	15	0	0.00	37.054	116.022	SPK	—		—		3.9	PDX	—		SHAFT	< 20KT
CHOCOLATE	1967	4	21	15	9	0.00	37.019	116.037	SPK	—		—		4.3	PDX	—		SHAFT	< 20KT
EFFENDI	1967	4	27	14	45	0.00	37.139	116.063	SPK	—		—		3.8	PDX	—		SHAFT	< 20KT
MICKEY	1967	5	10	13	40	0.00	37.078	115.995	SPK	—		—		5.0	PDX	—		SHAFT	20 TO 200KT
COMMODORE	1967	5	20	15	0	0.20	37.130	116.064	SPK	—		5.6	PDX	5.9	PDX	—		SHAFT	250KT
SCOTCH	1967	5	23	14	0	0.00	37.275	116.370	SPK	—		—		5.7	PDX	5.6	PDX	SHAFT	155KT
KNICKERBOCKER	1967	5	26	15	0	1.50	37.248	116.480	SPK	—		—		5.5	PDX	—		SHAFT	76KT
SWITCH	1967	6	22	13	10	0.10	37.126	116.029	SPK	—		—		—		—		SHAFT	< 20KT
MIDI MIST	1967	6	26	16	0	0.10	37.202	116.208	SPK	—		—		—		—		TUNNEL	< 20KT
UMBER	1967	6	29	11	25	0.00	37.029	116.023	SPK	—		—		—		—		SHAFT	< 20KT
STANLEY	1967	7	27	13	0	0.10	37.149	116.049	SPK	—		—		—		—		SHAFT	20 TO 200KT
WASHER	1967	8	10	14	10	0.10	37.157	116.047	SPK	—		—		—		—		SHAFT	< 20KT
BORDEAUX	1967	8	18	20	12	30.00	37.012	116.036	SPK	—		4.4	PDX	—		—		SHAFT	< 20KT
DOOR MIST	1967	8	31	16	30	0.00	37.178	116.209	SPK	—		—		—		—		TUNNEL	< 20KT
YARD	1967	9	7	13	45	0.10	37.153	116.053	SPK	—		—		—		—		SHAFT	20 TO 200KT
MARVEL	1967	9	21	20	45	0.10	37.165	116.038	SPK	—		—		—		—		SHAFT	2.2KT
ZAZA	1967	9	27	17	0	0.00	37.099	116.053	SPK	—		—		—		—		SHAFT	20 TO 200KT
LANPHER	1967	10	18	14	30	0.10	37.116	116.058	SPK	—		—		—		—		SHAFT	20 TO 200KT
SAZERAC	1967	10	25	14	30	0.10	37.032	116.026	SPK	—		—		—		—		SHAFT	< 20KT
COBBLER	1967	11	8	15	0	0.00	37.092	116.036	SPK	—		—		—		—		SHAFT	< 20KT
STILT	1967	12	15	15	0	0.00	37.037	116.002	SPK	—		—		—		—		SHAFT	< 20KT

ANNOUNCED NUCLEAR TESTS AT NTS 1951-1978

EVENT NAME	DATE (UTC) YEAR	MT	DY	ORIGIN TIME HR	MN	SEC	LOCATION LATITUDE	LONGITUDE	REF	MAGNITUDE MS	REF	ML	REF	MB	REF	OTH	REF	DESCRIPTION TYPE	YIELD
HUPMOBILE	1968	1	18	16:30:		0.10	37.146	116.066	SPK	—		—		—		—		SHAFT	7.4KT
STACCATO	1968	1	19	15: 0:		0.10	37.156	116.054	SPK	—		—		—		—		SHAFT	20 TO 200KT
FAULTLESS	1968	1	19	18:15:		0.10	38.634	116.215	SPK	—		—		6.3	ISC	—		SHAFT	200 TO 1000KT
CABRIOLET	1968	1	26	16: 0:		0.10	37.281	116.514	SPK	—		—		—		—		CRATER	2.3KT
KNOX	1968	2	21	15:30:		0.00	37.117	116.054	SPK	—		—		5.8	ISC	—		SHAFT	20 TO 200KT
DORSAL FIN	1968	2	29	17: 8:		30.00	37.184	116.211	SPK	—		—		5.0	ISC	—		TUNNEL	< 20KT
BUGGY 1-5	1968	3	12	17: 4:		0.00	37.008	116.370	SPK	—		—		—		—		CRATER	5.4KT
POMMARD	1968	3	14	15:19:		0.10	37.048	116.011	SPK	—		—		—		—		SHAFT	1.5KT
STINGER	1968	3	22	15: 0:		0.00	37.333	116.311	SPK	—		—		5.6	ISC	—		SHAFT	20 TO 200KT
MILK SHAKE	1968	3	25	18:44:		27.00	36.872	115.931	SPK	—		—		—		—		SHAFT	< 20KT
NOOR	1968	4	10	14: 0:		0.10	37.154	116.079	SPK	—		—		4.6	ISC	—		SHAFT	20 TO 200KT
SHUFFLE	1968	4	18	14: 5:		0.10	37.153	116.037	SPK	—		—		4.9	ISC	—		SHAFT	20 TO 200KT
SCROLL	1968	4	23	17: 1:		30.10	37.338	116.376	SPK	—		—		—		—		SHAFT	< 20KT
BOXCAR	1968	4	26	15: 0:		0.10	37.295	116.456	SPK	—		—		6.3	PDX	—		SHAFT	1.3 MEGATONS
CLARKSMOBILE	1968	5	17	13: 0:		0.10	37.120	116.059	SPK	—		—		4.7	ISC	—		SHAFT	20 TO 200KT
TUB	1968	6	6	21:30:		0.10	37.165	116.043	SPK	—		—		—		—		SHAFT	< 20KT
RICKEY	1968	6	15	14: 0:		0.00	37.265	116.315	SPK	—		—		5.9	ISC	—		SHAFT	20 TO 200KT
CHATEAUGAY	1968	6	28	12:22:		0.10	37.245	116.483	SPK	—		—		5.3	ISC	—		SHAFT	20 TO 200KT
TANYA	1968	7	30	13: 0:		0.10	37.133	116.082	SPK	—		—		—		—		SHAFT	20 TO 200KT
DIANA MOON	1968	8	27	16:30:		0.00	36.877	115.931	SPK	—		—		—		—		SHAFT	< 20KT
SLED	1968	8	29	22:45:		0.00	37.250	116.347	SPK	—		—		5.9	ISC	—		SHAFT	20 TO 200KT
NOGGIN	1968	9	6	14: 0:		0.10	37.135	116.047	SPK	—		—		5.6	PDX	—		SHAFT	20 TO 200KT
KNIFE A	1968	9	12	14: 0:		0.00	37.032	116.012	SPK	—		—		—		—		SHAFT	< 20KT
STODDARD	1968	9	17	14: 0:		0.00	37.120	116.128	SPK	—		—		5.1	ISC	—		SHAFT	20 TO 200KT
HUDSON SEAL	1968	9	24	17: 5:		0.10	37.205	116.206	SPK	—		—		5.0	ISC	—		TUNNEL	< 20KT
KNIFE C	1968	10	3	14:29:		0.00	37.026	115.993	SPK	—		—		—		—		SHAFT	< 20KT
CREW	1968	11	4	15:15:		0.10	37.131	116.086	SPK	—		—		5.0	ISC	—		SHAFT	20 TO 200KT
KNIFE B	1968	11	15	15:45:		0.00	37.026	116.033	SPK	—		—		—		—		SHAFT	< 20KT
MING VASE	1968	11	20	18: 0:		0.00	37.010	116.206	SPK	—		—		4.9	ISC	—		TUNNEL	< 20KT
TINDERBOX	1968	11	22	16:19:		0.00	37.140	116.042	SPK	—		—		—		—		SHAFT	< 20KT
SCHOONER	1968	12	8	16: 0:		0.10	37.343	116.566	SPK	—		—		4.8	ISC	—		CRATER	30KT
TYG	1968	12	12	15:10:		0.10	37.119	116.078	SPK	—		—		—		—		SHAFT	< 20KT
BENHAM	1968	12	19	16:30:		0.00	37.231	116.474	SPK	5.6	PDX	—		6.3	PDX	6.4	PDX	SHAFT	1.15 MEGATONS
PACKARD	1969	1	15	19: 0:		0.10	37.148	116.066	SPK	—		—		—		—		SHAFT	10.0KT
WINESKIN	1969	1	15	19:30:		0.00	37.209	116.225	SPK	—		—		5.3	PDX	5.0	PDX	SHAFT	20 TO 200KT
VISE	1969	1	30	15: 0:		0.00	37.053	116.029	SPK	—		—		4.8	PDX	4.7	PDX	SHAFT	20 TO 200KT
CYPRESS	1969	2	12	16:18:		20.90	37.169	116.211	SPK	—		—		—		—		TUNNEL	< 20KT
BARSAC	1969	3	20	18:12:		0.00	37.022	116.030	SPK	—		—		4.6	PDX	5.0	PDX	SHAFT	< 20KT
COFFER	1969	3	21	14:30:		0.00	37.133	116.087	SPK	—		—		4.9	PDX	—		SHAFT	< 100KT
THISTLE	1969	4	30	17: 0:		0.00	37.090	116.006	SPK	—		—		5.3	PDX	—		SHAFT	20 TO 200KT
BLENTON	1969	4	30	17: 0:		0.00	37.082	116.014	SPK	—		—		5.3	ISC	—		SHAFT	20 TO 200KT
PURSE	1969	5	7	13:45:		0.00	37.283	116.501	SPK	—		—		5.8	PDX	5.7	PDX	SHAFT	20 TO 200KT
TORRIDO	1969	5	27	14:15:		0.00	37.075	115.995	SPK	—		4.7	PDX	5.0	PDX	4.9	PDX	SHAFT	20 TO 200KT
TAPPER	1969	6	12	14: 0:		0.00	37.009	116.030	SPK	—		4.7	PDX	4.4	PDX	4.4	PDX	SHAFT	< 20KT
ILDRIM	1969	7	16	13: 2:		30.00	37.119	116.055	SPK	—		4.7	PDX	4.7	PDX	—		SHAFT	20 TO 200KT
HUTCH	1969	7	16	14:55:		0.00	37.139	116.087	SPK	—		5.3	PDX	5.6	PDX	—		SHAFT	20 TO 200KT
SPIDER	1969	8	14	14:30:		0.00	37.160	116.064	SPK	—		—		—		—		SHAFT	< 20KT
PLIERS	1969	8	27	13:45:		0.00	37.021	116.038	SPK	—		4.4	PDX	4.7	PDX	—		SHAFT	< 20KT

ANNOUNCED NUCLEAR TESTS AT NTS 1951-1978

EVENT NAME	DATE (UTC) YEAR	MT	DY	ORIGIN TIME HR	MN	SEC	LOCATION LATITUDE	LONGITUDE	REF	MAGNITUDE MS	REF	ML	REF	MB	REF	OTH	REF	DESCRIPTION TYPE	YIELD
MINUTE STEAK	1969	9	12	18:	2:	20.40	36.877	115.928	SPK	—		4.5	BRK	4.5	PDX	4.8	PDX	SHAFT	< 20KT
JORUM	1969	9	16	14:	30:	0.00	37.314	116.461	SPK	5.1	PDX	6.3	PDX	6.2	PDX	—		SHAFT	< 1 MEGATON
PIPKIN	1969	10	8	14:	30:	0.10	37.257	116.441	SPK	—		5.5	PDX	5.5	PDX	—		SHAFT	200 TO 1000KT
CRUET	1969	10	29	19:	30:	0.00	37.121	116.128	SPK	—		4.3	PDX	5.1	PDX	—		SHAFT	11KT
POD	1969	10	29	20:	0:	0.00	37.138	116.136	SPK	—		4.7	PDX	5.0	PDX	—		SHAFT	20 TO 200KT
CALABASH	1969	10	29	22:	1:	51.00	37.143	116.064	SPK	—		5.7	PDX	5.7	PDX	—		SHAFT	110KT
SCUTTLE	1969	11	13	15:	15:	0.10	37.165	116.075	LLL	—		3.5	PAS	—		—		SHAFT	< 20KT
PICCALILLI	1969	11	21	14:	52:	0.00	37.014	116.002	SPK	—		5.2	PDX	5.0	PDX	5.0	PDX	SHAFT	TO 200KT
DIESEL TRAIN	1969	12	5	17:	0:	0.00	37.180	116.211	SPK	—		5.1	PDX	5.0	PDX	—		TUNNEL	< 20KT
GRAPE A	1969	12	17	15:	0:	0.00	37.084	116.002	SPK	—		5.6	PDX	5.5	PDX	—		SHAFT	20 TO 200KT
LOVAGE	1969	12	17	15:	15:	0.00	37.007	116.023	SPK	—		5.1	PDX	4.8	PDX	—		SHAFT	< 20KT
TERRINE	1969	12	18	19:	0:	0.00	37.120	116.035	SPK	—		5.2	PDX	5.2	PDX	—		SHAFT	20 TO 200KT
FOB	1970	1	23	16:	30:	0.20	37.137	116.037	SPK	—		4.6	PDX	4.6	PDX	4.4	PDX	SHAFT	< 20KT
AJO	1970	1	30	17:	0:	0.00	37.031	116.035	SPK	—		4.7	PDX	4.6	PDX	—		SHAFT	< 20KT
GRAPE B	1970	2	4	17:	0:	0.00	37.098	116.026	SPK	—		5.8	PDX	5.6	PDX	—		SHAFT	20 TO 200KT
LABIS	1970	2	5	15:	0:	0.00	37.164	116.039	SPK	—		4.7	PDX	4.7	PDX	—		SHAFT	25KT
DIANA MIST	1970	2	11	19:	15:	0.00	37.201	116.205	SPK	—		4.8	PDX	4.6	PDX	—		TUNNEL	< 20KT
CUMARIN	1970	2	25	14:	28:	38.00	37.037	116.000	SPK	—		5.6	PDX	5.2	PDX	4.6	PDX	SHAFT	20 TO 200KT
YANNIGAN	1970	2	26	15:	30:	0.00	37.116	116.061	SPK	—		5.2	PDX	5.3	PDX	4.8	PDX	SHAFT	20 TO 200KT
CYATHUS	1970	3	6	14:	24:	0.90	37.023	116.092	SPK	—		4.8	PDX	4.5	PDX	—		SHAFT	8.7KT
ARABIS	1970	3	6	15:	0:	0.20	37.140	116.037	SPK	—		4.3	PDX	4.3	PDX	—		SHAFT	< 20KT
JAL	1970	3	19	14:	3:	30.00	37.001	116.023	SPK	—		—		4.1	PDX	—		SHAFT	< 20KT
SHAPER	1970	3	23	23:	5:	0.00	37.086	116.021	SPK	—		5.0	PDX	5.5	PDX	5.4	PDX	SHAFT	20 TO 200KT
HANDLEY	1970	3	26	19:	0:	0.20	37.300	116.534	SPK	5.3	PDX	6.2	PDX	6.5	PDX	6.3	PDX	SHAFT	> 1 MEGATON
SNUBBER	1970	4	21	14:	30:	0.00	37.055	115.988	SPK	—		4.4	PDX	4.6	PDX	—		SHAFT	< 20KT
CAN	1970	4	21	15:	0:	0.00	37.116	116.080	SPK	—		4.4	PDX	4.8	PDX	4.8	PDX	SHAFT	20 TO 200KT
BEEBALM	1970	5	1	14:	13:	0.00	37.059	116.028	SPK	—		3.8	PDX	4.2	PDX	—		SHAFT	< 20KT
HOD	1970	5	1	14:	40:	0.20	37.133	116.034	SPK	—		3.9	PDX	4.5	PDX	—		SHAFT	< 20KT
MINT LEAF	1970	5	5	15:	30:	0.20	37.217	116.184	SPK	—		4.3	PDX	5.2	PDX	—		TUNNEL	< 20KT
DIAMOND DUST	1970	5	12	14:	0:	0.00	37.010	116.202	SPK	—		—		—		—		TUNNEL	< 20KT
CORNICE	1970	5	15	13:	30:	0.00	37.162	116.039	SPK	—		4.8	PDX	5.3	PDX	—		SHAFT	20 TO 200KT
MANZANAS	1970	5	21	14:	0:	0.00	37.029	115.992	SPK	—		3.5	PDX	3.5	PDX	—		SHAFT	20KT
MORRONES	1970	5	21	14:	15:	0.00	37.071	116.013	SPK	—		4.6	PDX	5.1	PDX	—		SHAFT	20 TO 200KT
HUDSON MOON	1970	5	26	14:	16:	0.20	37.183	116.213	SPK	—		4.3	PDX	5.0	PDX	4.2	PDX	TUNNEL	< 20KT
FLASK	1970	5	26	15:	0:	0.00	37.113	116.062	SPK	—		5.1	PDX	5.6	PDX	—		SHAFT	105KT
ARNICA	1970	6	26	13:	0:	0.00	37.114	116.086	SPK	—		—		4.3	PDX	4.6	PDX	SHAFT	20 TO 200KT
TIJERAS	1970	10	14	14:	30:	0.00	37.071	116.005	SPK	—		5.2	PDX	5.5	PDX	—		SHAFT	20 TO 200KT
ABEYTAS	1970	11	5	15:	0:	0.00	37.029	116.012	SPK	—		—		4.9	PDX	4.7	PDX	SHAFT	20 TO 200KT
ARTESIA	1970	12	16	16:	0:	0.10	37.100	116.008	SPK	—		—		5.1	PDX	5.1	PDX	SHAFT	20 TO 200KT
CREAM	1970	12	16	16:	0:	0.20	37.143	116.034	SPK	—		—		—		—		SHAFT	< 20KT
CARPETBAG	1970	12	17	16:	5:	0.20	37.129	116.083	SPK	—		—		5.7	PDX	5.7	PDX	SHAFT	220KT
BANEBERRY	1970	12	18	15:	30:	0.20	37.173	116.099	SPK	—		—		5.2	PDX	4.9	PDX	SHAFT	10 KT
EMBUDO	1971	6	16	14:	50:	0.00	37.033	116.014	SPK	—		—		4.9	PDX	—		SHAFT	< 20KT
LAGUNA	1971	6	23	15:	30:	0.00	37.022	116.023	SPK	—		—		4.8	PDX	—		SHAFT	20 TO 200KT
HAREBELL	1971	6	24	14:	0:	0.20	37.147	116.067	SPK	—		—		5.2	PDX	—		SHAFT	20 TO 200KT
CAMPHOR	1971	6	29	18:	30:	0.20	37.177	116.211	LLL	—		—		4.9	ISC	4.9	GDY	TUNNEL	< 20KT
DIAMOND MINE	1971	7	1	14:	0:	0.00	37.012	116.203	SPK	—		—		—		—		TUNNEL	< 20KT
MINIATA	1971	7	8	14:	0:	0.10	37.110	116.051	SPK	—		—		5.5	PDX	5.2	PDX	SHAFT	83KT

ANNOUNCED NUCLEAR TESTS AT NTS 1951-1978

EVENT NAME	DATE (UTC) YEAR	MT	DY	ORIGIN TIME HR	MN	SEC	LOCATION LATITUDE	LONGITUDE	REF	MAGNITUDE MS	REF	ML	REF	MB	REF	OTH	REF	DESCRIPTION TYPE	YIELD
ALGODONES	1971	8	18	14	0	0.00	37.057	116.036	SPK	—		5.2	PDX	5.4	PDX	—		SHAFT	20 TO 200KT
PEDERNAL	1971	9	29	14	0	0.00	37.011	116.007	SPK	—		—		4.4	PDX	—		SHAFT	< 20KT
CATHAY	1971	10	8	14	30	0.20	37.114	116.037	SPK	—		4.7	PDX	4.7	PDX	—		SHAFT	< 20KT
DIAGONAL LINE	1971	11	24	20	15	0.20	36.879	115.935	SPK	—		—		—		3.8	GDY	SHAFT	< 20KT
CHAENACTIS	1971	12	14	21	9	59.20	37.124	116.096	SPK	—		4.4	PDX	4.7	PDX	—		SHAFT	< 20KT
LONGCHAMPS	1972	4	19	16	32	0.20	37.122	116.084	SPK	—		—		4.6	PDX	—		SHAFT	< 20KT
MISTY NORTH	1972	5	2	19	15	0.00	37.208	116.209	SPK	—		—		5.0	PDX	5.0	GDY	TUNNEL	< 20KT
ZINNIA	1972	5	17	14	10	0.20	37.121	116.088	SPK	—		4.6	PDX	4.4	PDX	—		SHAFT	< 20KT
MONERO	1972	5	19	17	0	0.10	37.065	116.002	SPK	—		—		4.9	PDX	—		SHAFT	< 20KT
DIAMOND SCULLS	1972	7	20	17	16	0.20	37.215	116.183	SPK	—		4.8	PDX	5.0	PDX	—		TUNNEL	< 20KT
OSCURO	1972	9	21	15	30	0.20	37.082	116.036	SPK	4.3	PDX	—		5.7	PDX	5.4	PDX	SHAFT	20 TO 200KT
DELPHINIUM	1972	9	26	14	30	0.20	37.121	116.086	SPK	—		—		4.4	PDX	4.4	PDX	SHAFT	15KT
FLAX	1972	12	21	20	15	0.20	37.140	116.083	SPK	—		—		5.0	PDX	4.8	PDX	SHAFT	20 TO 200KT
MIERA	1973	3	8	16	10	0.20	37.103	116.027	SPK	—		5.4	PDX	5.4	PDX	—		SHAFT	20 TO 200KT
ANGUS	1973	4	25	22	25	0.00	37.005	116.029	SPK	—		4.3	PDX	4.7	PDX	—		SHAFT	20 TO 200KT
STARWORT	1973	4	26	17	15	0.20	37.123	116.059	SPK	—		5.3	PDX	5.6	PDX	—		SHAFT	90KT
DIDO QUEEN	1973	6	5	17	0	0.20	37.185	116.215	SPK	—		4.8	PDX	5.1	PDX	—		TUNNEL	< 20KT
ALMENDRO	1973	6	6	13	0	0.10	37.245	116.346	SPK	—		5.9	PDX	6.1	PDX	—		SHAFT	200 TO 1000KT
PORTULACA	1973	6	28	19	15	12.40	37.148	116.086	SPK	—		5.2	PDX	4.9	PDX	—		SHAFT	20 TO 200KT
HUSKY ACE	1973	10	12	17	0	0.10	37.200	116.203	SPK	—		—		4.8	PDX	4.6	PDX	TUNNEL	< 20KT
BERNAL	1973	11	28	15	30	0.10	37.011	116.024	LLL	—		4.4	PDX	4.4	PDX	4.4	GDY	SHAFT	< 20KT
LATIR	1974	2	27	17	0	0.10	37.104	116.053	PDX	—		5.0	PDX	5.8	PDX	—		SHAFT	20 TO 200KT
FALLON	1974	5	23	13	38	30.20	37.124	116.079	LLL	—		4.8	PDX	4.8	PDX	4.8	GDY	SHAFT	20 TO 200KT
MING BLADE	1974	6	19	16	0	0.10	37.210	116.207	LLL	—		—		4.8	ISC	—		TUNNEL	< 20KT
ESCABOSA	1974	7	10	16	0	0.10	37.068	116.032	PDX	—		5.6	PDX	5.7	PDX	—		SHAFT	20 TO 200KT
PUYE	1974	8	14	14	0	0.10	37.023	116.036	PDX	—		4.3	PDX	4.6	PDX	—		SHAFT	< 20KT
PORTMANTEAU	1974	8	30	15	0	0.20	37.150	116.083	PDX	—		5.8	PDX	5.8	PDX	—		SHAFT	20 TO 200KT
STANYAN	1974	9	26	15	5	0.20	37.133	116.068	PDX	4.2	PDX	5.0	PDX	5.6	PDX	—		SHAFT	20 TO 200KT
HYBLA FAIR	1974	10	28	15	0	0.20	37.201	116.204	LLL	—		—		—		—		TUNNEL	< 20KT
TOPGALLANT	1975	2	28	15	15	0.10	37.106	116.056	PDX	—		—		5.7	PDX	—		SHAFT	20 TO 200KT
CABRILLO	1975	3	7	15	0	0.20	37.134	116.084	PDX	—		5.2	PDX	5.5	PDX	—		SHAFT	20 TO 200KT
DINING CAR	1975	4	5	19	45	0.20	37.188	116.214	PDX	—		4.4	PAS	4.8	PDX	—		TUNNEL	< 20KT
EDAM	1975	4	24	14	10	0.20	37.116	116.087	PDX	—		4.4	PDX	4.6	PDX	—		SHAFT	20 TO 200KT
OBAR	1975	4	30	15	0	0.10	37.109	116.029	PDX	—		—		5.2	PDX	—		SHAFT	20 TO 200KT
TYBO	1975	5	14	14	0	0.20	37.221	116.474	PDX	—		—		6.0	PDX	5.8	PDX	SHAFT	200 TO 1000KT
STILTON	1975	6	3	14	20	0.20	37.340	116.523	PDX	—		6.0	PDX	5.9	PDX	—		SHAFT	20 TO 200KT
MIZZEN	1975	6	3	14	40	0.10	37.095	116.036	PDX	3.9	PDX	5.6	PDX	5.7	PDX	—		SHAFT	20 TO 200KT
MAST	1975	6	19	13	0	0.10	37.350	116.320	PDX	—		5.9	PDX	6.1	PDX	—		SHAFT	200 TO 1000KT
CAMEMBERT	1975	6	26	12	30	0.20	37.279	116.369	PDX	5.0	PDX	6.1	PDX	6.2	PDX	—		SHAFT	200 TO 1000KT
MARSH	1975	9	6	17	0	0.10	37.024	116.028	PDX	—		4.3	PDX	4.6	PDX	—		SHAFT	< 20KT
HUSKY PUP	1975	10	24	17	11	26.10	37.222	116.179	PDX	—		4.7	PDX	4.7	PDX	—		TUNNEL	< 20KT
KASSERI	1975	10	28	14	30	0.20	37.290	116.411	PDX	5.4	PDX	6.3	PDX	6.4	PDX	6.2	PDX	SHAFT	200 TO 1000KT
INLET	1975	11	20	15	0	0.10	37.225	116.368	PDX	—		6.0	PDX	6.0	PDX	5.8	PDX	SHAFT	200 TO 1000KT
LEYDEN	1975	11	26	15	30	0.20	37.117	116.019	PDX	—		4.4	PDX	5.0	PDX	—		SHAFT	< 20KT
CHIBERTA	1975	12	20	20	0	0.20	37.128	116.062	PDX	4.0	PDX	5.6	PDX	5.7	PDX	—		SHAFT	20 TO 200KT
MUENSTER	1976	1	3	19	15	0.20	37.297	116.333	PDX	5.5	PDX	6.2	PDX	6.2	PDX	6.3	PDX	SHAFT	200 TO 1000KT
KEELSON	1976	2	4	14	20	0.10	37.069	116.030	PDX	—		5.4	PDX	5.8	PDX	—		SHAFT	20 TO 200KT
ESROM	1976	2	4	14	40	0.20	37.107	116.037	PDX	—		5.6	PDX	5.7	PDX	—		SHAFT	20 TO 200KT

ANNOUNCED NUCLEAR TESTS AT NTS 1951–1978

EVENT NAME	DATE (UTC) YEAR	MT	DY	ORIGIN TIME HR	MN	SEC	LOCATION LATITUDE	LONGITUDE	REF	MAGNITUDE MS	REF	ML	REF	MB	REF	OTH	REF	DESCRIPTION TYPE	YIELD
FONTINA	1976	2	12	14	45	0.20	37.271	116.488	PDX	5.5	PDX	6.3	PDX	6.3	PDX	—		SHAFT	200 TO 1000KT
CHESHIRE	1976	2	14	11	30	0.20	37.243	116.420	PDX	—		5.7	PDX	6.0	PDX	—		SHAFT	200 TO 500KT
ESTUARY	1976	3	9	14	0	0.10	37.310	116.364	PDX	4.8	PDX	5.9	PDX	6.0	PDX	—		SHAFT	200 TO 500KT
COLBY	1976	3	14	12	30	0.20	37.306	116.471	PDX	5.3	PDX	6.2	PDX	6.3	PDX	—		SHAFT	500 TO 1000KT
POOL	1976	3	17	14	15	0.10	37.256	116.312	PDX	4.5	PDX	5.8	PDX	6.1	PDX	—		SHAFT	200 TO 500KT
STRAIT	1976	3	17	14	45	0.10	37.107	116.052	PDX	4.2	PDX	5.6	PDX	5.8	PDX	—		SHAFT	200 TO 500KT
MIGHTY EPIC	1976	5	12	19	50	0.20	37.209	116.212	PDX	—		4.6	PDX	4.9	PDX	—		TUNNEL	< 20KT
BILLET	1976	7	27	20	30	0.10	37.075	116.044	PDX	—		5.2	PDX	5.3	PDX	—		SHAFT	20 TO 150KT
BANON	1976	8	26	14	30	0.20	37.125	116.082	PDX	4.2	PDX	5.1	PDX	5.3	PDX	—		SHAFT	20 TO 150KT
CHEVRE	1976	11	23	15	15	0.20	37.172	116.053	PDX	—		—		—		—		SHAFT	< 20KT
REDMUD	1976	12	8	14	49	30.10	37.079	116.002	PDX	—		4.5	PDX	4.9	PDX	—		SHAFT	< 20KT
ASIAGO	1976	12	21	15	9	0.20	37.124	116.067	PDX	—		4.2	PDX	—		—		SHAFT	< 20KT
RUDDER	1976	12	28	18	0	0.10	37.100	116.038	PDX	—		5.5	PDX	5.5	PDX	—		SHAFT	20 TO 150KT
MARSILLY	1977	4	5	15	0	0.20	37.120	116.062	PDX	5.3	PDX	5.5	PDX	5.6	PDX	—		SHAFT	20 TO 150KT
BULKHEAD	1977	4	27	15	0	0.10	37.095	116.028	PDX	4.2	PDX	5.1	PDX	5.4	PDX	—		SHAFT	20 TO 150KT
CREWLINE	1977	5	25	17	0	0.10	37.094	116.045	PDX	—		5.2	PDX	5.3	PDX	—		SHAFT	20 TO 150KT
STRAKE	1977	8	4	16	40	0.10	37.087	116.007	PDX	5.7	PDX	5.0	PDX	5.0	PDX	—		SHAFT	20 TO 150KT
SCANTLING	1977	8	19	17	55	0.10	37.111	116.055	PDX	—		5.5	PDX	5.6	PDX	—		SHAFT	20 TO 150KT
EBBTIDE	1977	9	15	14	36	30.10	37.033	116.043	PDX	—		4.1	PDX	4.5	PDX	—		SHAFT	< 20KT
COULOMMIERS	1977	9	27	14	0	0.20	37.151	116.068	PDX	—		4.8	PDX	4.8	PDX	—		SHAFT	20 TO 150KT
BOBSTAY	1977	10	26	14	15	0.10	37.008	116.017	PDX	—		4.5	PDX	4.4	PDX	—		SHAFT	< 20KT
HYBLA GOLD	1977	11	1	18	6	0.10	37.188	116.213	PDX	—		4.1	PDX	4.7	PDX	—		TUNNEL	< 20KT
SANDREEF	1977	11	9	22	0	0.10	37.072	116.050	PDX	4.0	PDX	5.6	PDX	5.7	PDX	—		SHAFT	20 TO 150KT
SEAMOUNT	1977	11	17	19	30	0.10	37.021	116.025	PDX	—		4.4	PDX	4.7	PDX	—		SHAFT	< 20KT
FARALLONES	1977	12	14	15	30	0.20	37.136	116.086	PDX	—		5.6	PDX	5.7	PDX	—		SHAFT	20 TO 150KT
CAMPOS	1978	2	13	21	53	0.20	37.126	116.032	LLL	—		4.0	PAS	3.8	PDX	4.0	PDX	SHAFT	< 20KT
REBLOCHON	1978	2	23	17	0	0.20	37.125	116.064	PDX	—		5.4	PDX	5.6	PDX	—		SHAFT	20 TO 150KT
ICEBERG	1978	3	23	16	30	0.20	37.102	116.051	PDX	—		5.5	PDX	5.6	PDX	—		SHAFT	20 TO 150KT
FONDUTTA	1978	4	11	15	30	0.20	37.300	116.327	PDX	—		5.3	PDX	5.3	PDX	—		SHAFT	20 TO 150KT
BACKBEACH	1978	4	11	17	45	0.10	37.233	116.367	PDX	4.5	PDX	5.3	PDX	5.5	PDX	—		SHAFT	20 TO 150KT
TRANSOM	1978	5	10	0	0	0.00	37.088	116.053	LLL	—		—		—		—		SHAFT	ZERO
LOWBALL	1978	7	12	17	0	0.10	37.079	116.044	PDX	4.1	PDX	5.4	PDX	5.5	PDX	—		SHAFT	20 TO 150KT
PANIR	1978	8	31	14	0	0.20	37.275	116.357	PDX	—		5.5	PDX	5.6	PDX	—		SHAFT	20 TO 150KT

*U.S. GOVERNMENT PRINTING OFFICE: 1987-0-775-673/65168