International Seismological Centre

University of Utah

☆ ☆ ☆

Seismological Bulletin

January 1, 1970 — December 31, 1970

Contribution No. 103

University of Utah Seismograph Stations

Kenneth L. Cook, Director

University of Utah

Salt Lake City, Utah

July 29, 1976

ADDENDA

ACKNOWLEDGMENTS (CONT'D)

Financial support for the bulletins and operation of the University of Utah Seismograph Stations was also provided in part by the Utah Geological and Mineral Survey (since July 1, 1967).

NOTICE

An extensive compilation of Utah earthquake data, including epicenter maps, is now in progress and will be published by the University of Utah Seismograph Stations in the near future.

University of Utah

* * * *

Seismological Bulletin

R. Steve Bellon
Grace M. Hathaway
Kenneth H. Behrens
Kenneth L. Cook, Editor

January 1, 1970 - - December 31, 1970

Contribution No. 103
University of Utah Seismograph Stations
Kenneth L. Cook, Director
University of Utah
Salt Lake City, Utah 84112

PERSONNEL OF UNIVERSITY OF UTAH SEISMOGRAPH STATIONS NETWORK DURING 1970

International Seismological Centre

Kenneth L. Cook, Director

Cedar City (CCU)
Judd, Harl E. -- Attendant in charge
Jones, Merrill R., Attendant
Morrell, W. Lee, Attendant

Dugway (DUG)
Bishop, Gerald R. -- Attendant in charge
Hays, Perle H., Attendant
Wilde, Jerry E., Attendant

Flaming Gorge (FGU)
Floyd, Merritt C., Jr. -- Attendant in charge
Hautala, Robert A., Attendant

Granite Mountain Records Vault (GMU)
Anderson, Jerry M., Graduate Research Assistant
Behrens, Kenneth H., Technician-Analyst
Bellon, R. Steve, Senior Technician-Analyst

Price (PCU)
Trujillo, A. R. -- Attendant in charge
King, A. Lavell, Attendant
Torgerson, Robert O., Attendant

Salt Lake City (SLC)
Anderson, Andrew M., Attendant
Behrens, Kenneth H., Technician-Analyst
Bellon, R. Steve, Senior Technician-Analyst
Hathaway, Grace M., Research Analyst
Katz, Lewis J., Undergraduate Research Assistant
Logan, Kathleen H., Secretary

Uinta Basin Seismological Observatory (UBO)
Hoffman, Nils H. -- Manager
Cary, Galen D., Analyst

Logan (LOG) -- station owned by Utah State University
Hardy, Clyde T., Chairman, Department of Geology,
Utah State University -- in charge
Galloway, Cheryl, Attendant
Harston, Ruth, Attendant

SEISMOGRAPH STATIONS OF THE UNIVERSITY OF UTAH

International Seismological Centre

Dugway, Utah* (DUG)

Latitude: 40° 11.70' N Longitude: 112° 48.80' W

Elevation: 1477 meters Bedrock: Rhyolite-quartz dacite flow (Tertiary)

Time: Standard timing system of the World-Wide Standard Seismograph Network, Model 10700, The Geotechnical Corp., Garland, Texas. Calibration WWV time signal automatically impressed every 6 hours.

Instruments: Standard Benioff three-component seismographs (Z, N, E);
Sprengnether three-component seismographs (Z, N, E);
Wood-Anderson horizontal torsion seismographs (N, E).

Locality: The vault is located 5 miles southwest of Dugway, Utah and is underground.

Price, Utah (PCU)

Latitude: 39° 36.40' N Longitude: 110° 48.30' W

Elevation: 1714 meters Bedrock: Mancos shale (Cretaceous)

Time: Simplex Master Clock calibrated against WWV. Calibration time signals impressed manually at beginning and end of daily record.

Instruments: Portable Benioff three-component seismographs (Z, N, E);
Wood-Anderson horizontal torsion seismographs (N, E).

Locality: The vault is located on the campus of the College of Eastern Utah, Price, Utah. The college was formerly called Carbon College.

Salt Lake City, Utah (SLC)

Latitude: 40° 45.92' N Longitude: 111° 50.90' W

Elevation: 1425 meters Bedrock: Quaternary alluvium

Time: IBM Master Clock, calibrated against WWV. Calibration time signal impressed manually at beginning and end of daily record.

Instruments: Portable Benioff three-component seismographs (Z, N, E);
Wilson-Lamison** vertical moving-coil seismograph (Z);
McComb-Romberg** horizontal seismographs (N, E).

Locality: The vault is located on the campus of the University of Utah, Salt Lake City, Utah.

* One of the stations in the World-Wide Standard Seismograph Network (WWSSN) operated in conjunction with the Coast and Geodetic Survey, Environmental Science Services Administration (ESSA).

** Instrument owned by, and operated in conjunction with the Coast and Geodetic Survey, Environmental Science Services Administration (ESSA).

Cedar City, Utah (CCU)

Latitude: 37° 40.52' N Longitude: 113° 04.11' W

Elevation: 1775 meters Bedrock: Quaternary alluvium

Time: Geotech Model TG110 Crystal Timer.

Instruments: Portable Benioff three-component seismographs (Z, N, E).

Locality: The vault is located on campus of Southern Utah State College (formerly College of Southern Utah), Cedar City, Utah.

Uinta Basin Seismological Observatory, Utah (UBO)

Latitude: 40° 19.30' N Longitude: 109° 34.01' W

Elevation: 1596 meters Bedrock: Morrison sandstone (Jurassic)

Time: Geotech Model 11880 timing system

Instruments: An array of 10 vertical seismometers in Star-of-David pattern in holes 250 feet deep (See Fig. 2).
10 Vertical short-period seismometers, Geotech Model 18300 (Z).
2 Horizontal short-period seismometers, Johnson-Matheson Model 7515 (N, E).
3 Long-period Geotech seismometers Model 7505A and 8700C (Z, N, E).
1 Vertical heavy-mass Benioff seismometer Model 1051 (Z).

Recorder: 2 Geotech develocorders--16mm film; film speeds: 30mm/min (short-period instruments) & 15mm/min (long-period instruments). Scales of short-period records: 1) on develocorder screen--300mm/min; 2) on film viewer (enlarger)--600mm/min.

Locality: Approximately 10 miles south-southwest of Vernal, Utah (See Fig.1)

Note: UBO began operation under management of University of Utah on April 15, 1970; and recordings of seismic events on develocorder film were started on this date.

Flaming Gorge, Utah (FGU)

Latitude: 40° 55.58' N Longitude: 109° 23.17' W

Elevation: 1982 meters Bedrock: Navajo sandstone (Jurassic)

Time: Geotech Model 10700 (or equivalent) timing system

Instruments: Portable Benioff three-component seismographs (Z, N, E).

Recorder: 35mm film; film speed 7.5mm/min. Scale of record on film viewer: 60mm/min.

Locality: In vault about one-half mile north of Dutch John, Utah.

Note: FGU began operation under management of University of Utah on July 7, 1970; and recording of seismic events on film were started on this date.

Granite Mountain, Utah (GMU)

Latitude: 40° 34.45' N Longitude: 111° 45.72' W

Elevation: 1770 meters Bedrock: Granite of Little Cottonwood stock of Tertiary age

Time: Geotech Model TG110 Crystal Timer

Instruments: Mark-Product Model 4L seismometers (Z, N, E)

Note: Signals send by telephone telemetry (Develco VCO-preamplifiers) to campus of University of Utah.

Locality: In rear of vault (about 800 feet from portal of adit) at Granite Mountain Records Vault, 1½ miles up Little Cottonwood Canyon, about 15 miles south-southeast of Salt Lake City, Utah.

Recorder: 2 Geotech develocorders--16mm film; film speed: 30mm/min. Scales of record: 1) on develocorder screen--300 mm/min; 2) on film viewer (enlarger)--600 mm/min.

Note: GMU began operation on September 8, 1970; and recording of seismic events on film were started on this date.

UTAH STATE UNIVERSITY SEISMOGRAPH STATION

Logan, Utah (LOG)

Latitude: 41° 44.50' N Longitude: 111° 48.80' W

Elevation: 1455 meters Bedrock: Quaternary alluvium

Time: Master pendulum clock calibrated against WWV. Calibration time signals impressed manually at beginning and end of daily record.

Instruments: Wilson-Lamison vertical moving-coil seismograph (Z); Wood-Anderson horizontal torsion seismographs (N, E).

Locality: The vault is located on the campus of the Utah State University, Logan, Utah.

The station, which is owned by Utah State University, was under the supervision of Dr. Clyde T. Hardy, Chairman, Department of Geology, Utah State University, during the period covered in this bulletin.

CONFIGURATION OF DEVELOCORDER FILM AT UINTA BASIN SEISMOLOGICAL OBSERVATORY (UBO)

International Seismological Centre

Note: Individual traces on develocorder film are listed in order, from top (top of film) to bottom (bottom of film)

Trace No.	Seismometers (or combinations thereof)		Approximate Magnification
	No	Description	
1	-	Standard Benioff--vertical, short-period*	12,100
2	Z-1	Geotech--vertical, short-period[1]	600,000
3	Z-3	Geotech--vertical, short-period[1]	600,000
4	Z-5	Geotech--vertical, short-period[1]	600,000
5	Z-2	Geotech--vertical, short-period[2]	600,000
6	Z-4	Geotech--vertical, short-period[2]	600,000
7	Z-6	Geotech--vertical, short-period[2]	600,000
8	Z-10	Geotech--vertical, short-period[3]	55,000
9	N-S	Johnson-Matheson, horizontal short-period[4]	52,500
10	E-W	Johnson-Matheson, horizontal short-period[4]	52,500
11 through 12	Z-1 through Z-10	Filtered sum	6,000,000
12 through 11	Z-1 through Z-10	Unfiltered sum (Usually 1,500,000 to 3,100,000)	Variable
13	Z-10	Geotech--vertical, short-period[3]	600,000
14	N-S	Johnson-Matheson, horizontal, short-period[4]	600,000
15	E-W	Johnson-Matheson, horizontal, short-period[4]	600,000
16 (Variable)	Z-2	Geotech-vertical, short-period[5]	1,700±

[1] Seismometers Z1, Z3, and Z5 constitute the outer triangle of the Star-of-David array of seismometers (see Fig. 2).

[2] Seismometers Z-2, Z-4, and Z-6 constitute the secondary triangle of the Star-of-David array of seismometers (see Fig. 2).

[3] Seismometer Z-10 is in the center of the Star-of-David array of seismometers (see Fig. 2).

[4] The two horizontal Johnson-Matheson seismometers are located at the surface at the same location as seismometer Z-10, in the center of the Star-of-David array of seismometers.

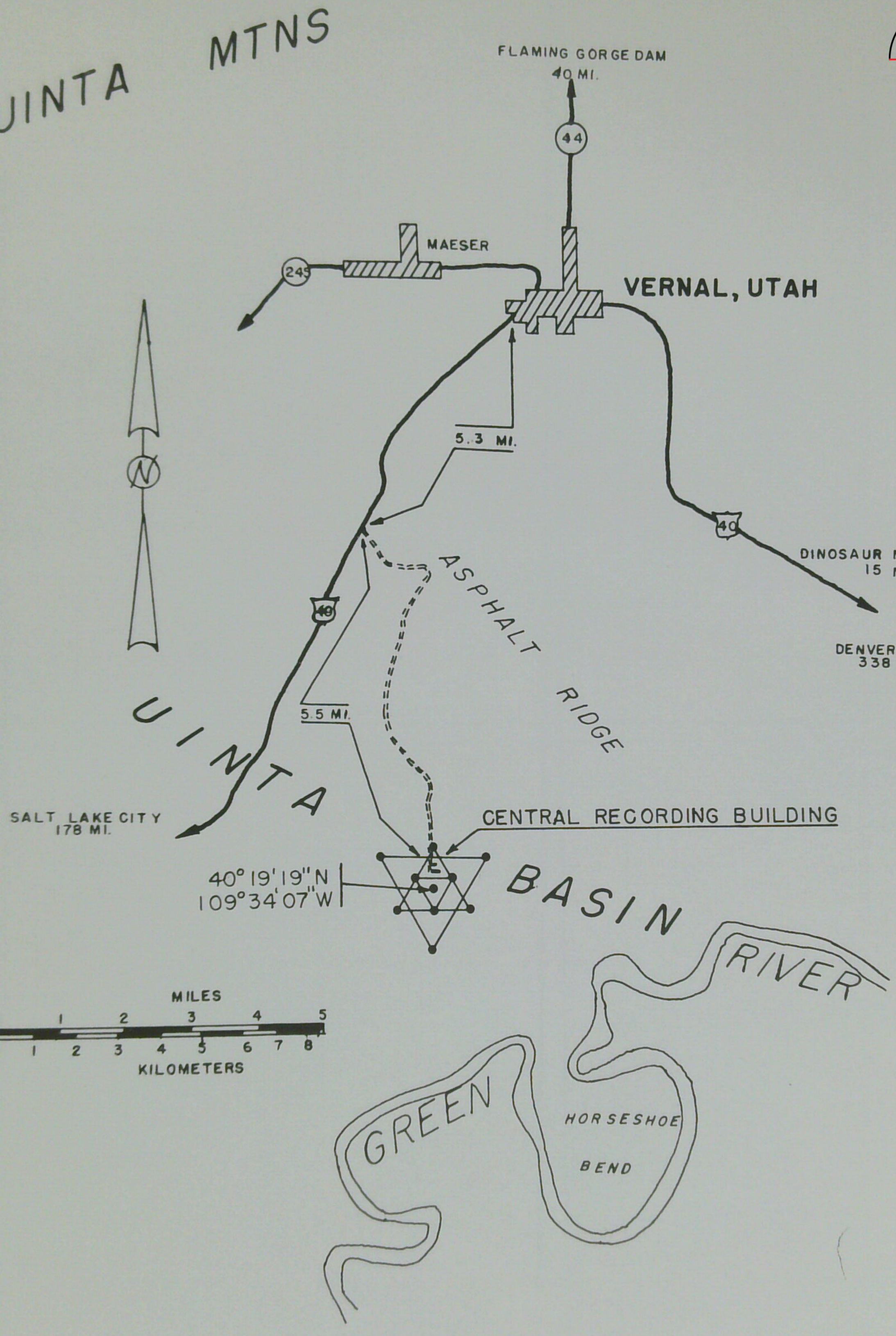
[5] WWV time signal also impressed on trace 16 at 1-minute intervals.

Notes: 1. Seismometers Z-1 through Z-10 are located at the bottom of 250-foot-deep holes in the Morrison formation.

2. The output of seismometers Z-7, Z-8, and Z-9, which constitute the inner triangle of the Star-of-David array of seismometers (Fig. 2) were not recorded individually, but were included in the 1) Filtered sum trace and 2) Unfiltered sum trace.

3. Long-period seismometers are located near the Central Recording Buildi (designated "CRB" in Fig. 2) at the bottom of a 50-foot-deep vault in Morrison formation.

*Standard Benioff seismometer was located on pier inside the Central Recording Building ("CRB" in Fig. 2) of UBO.



UINTA BASIN SEISMOLOGICAL OBSERVATORY

Figure 1. Sketch map of region near Vernal, Utah, showing location of Uinta Basin Seismological Observatory.

International Seismological Centre

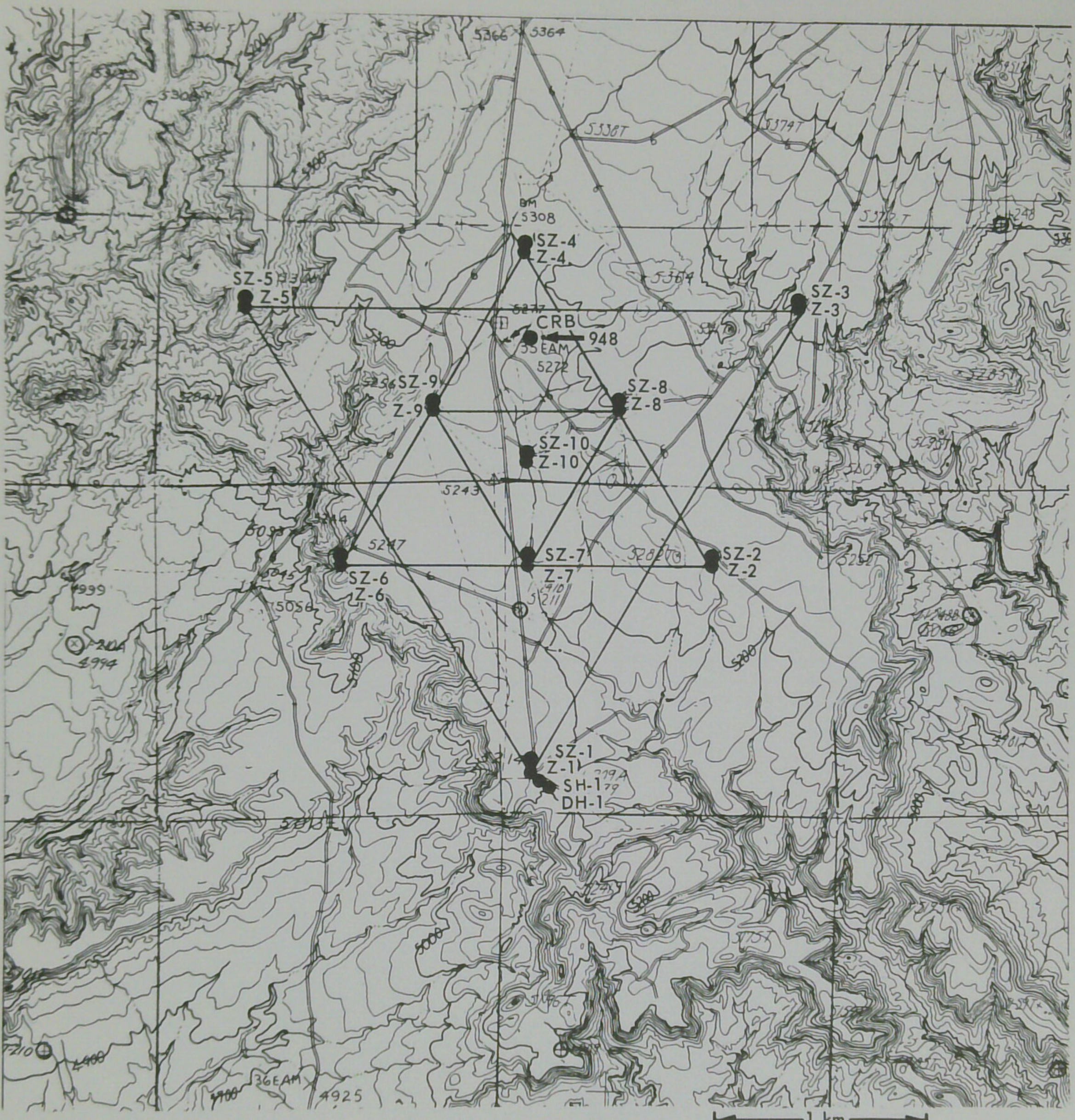


Figure 2. Orientation and configuration of UBO short-period arrays

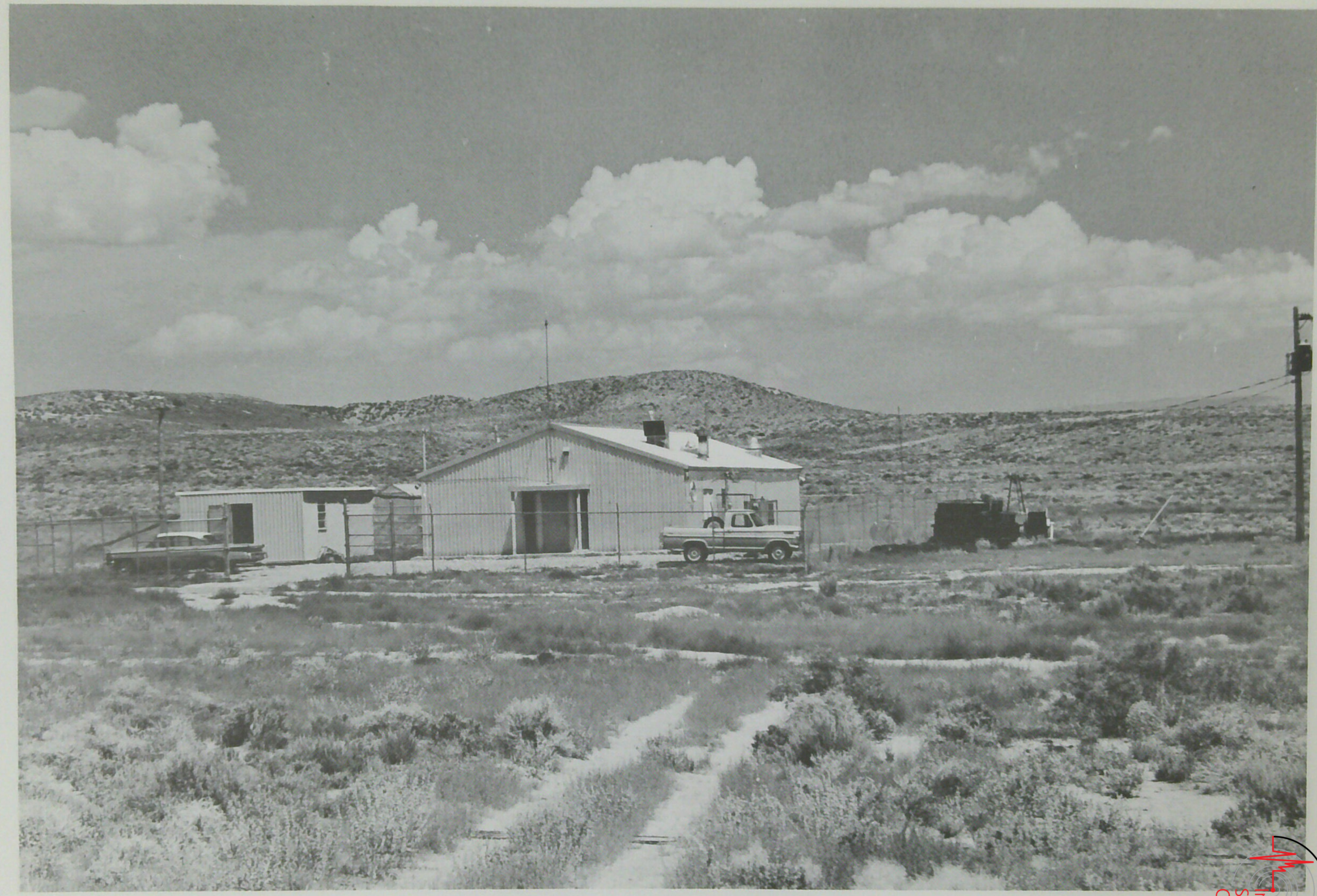


Fig. 3. Central Recording Building (on right) and storage building (on left), Uinta Basin Seismological Observatory.

International Seismological Centre

INFORMATION IN THE BULLETIN

International Seismological Centre

The University of Utah Seismological Bulletins present data for important earthquakes occurring principally in the conterminous United States west of longitude 105° approximately (Rocky Mountain Front). Data for certain selected earthquakes in northwestern Mexico and southwestern Canada are also included. Emphasis is given to events occurring in Utah and immediately adjacent areas. Earthquakes occurring at teleseismic distances are not generally included in the Bulletin.* Certain seismic events of special interest are included, as for example large announced underground nuclear explosions at the Nevada Test Site (NTS) and other areas, high-energy chemical explosions in various regions, and certain unannounced seismic events from the Semipalatinsk (eastern Kazakh) area, USSR.

The present University of Utah Seismological Bulletin gives the data and arrival times of the most important phases from seismic events as described above that were recorded at the University of Utah seismograph stations, Dugway (DUG), Price (PCU), Salt Lake City (SLC), Cedar City (CCU), Uinta Basin Seismological Observatory (UBO), Flaming Gorge (FGU), Granite Mountain Records Vault (GMU), and at the Utah State University station at Logan (LOG).

For the Price (PCU) station only, the designation "R" has been used to identify tentatively a phase that is apparently generated by rockbursts associated with coal-mining activity in Carbon County, Utah. The phase generally arrives within about 15 seconds after the compressional P-wave first arrival, but at least several seconds later than the conventional body shear S-wave and is thought to be associated with a surface wave arrival. An event associated with this type of activity is designated "Probable rock-burst, Carbon County."

A seismic event associated with blasting in the Bingham Canyon mining area of western Salt Lake County is designated as a "Bingham blast." Only those Bingham blasts with a ground motion $\leq$ 10 millimicrons, as recorded at the Dugway (DUG) station, are included. Seismic events associated with blasting in the Elko1, Wyoming and McGill, Nevada mining areas are designated "Elko1 blast" and "McGill blast," respectively.

In this bulletin for 1970, the following convention was used for the probable rockbursts in Carbon County, Utah:

1) For the probable rockbursts recorded during the period January 1, 1970 through April 15, 1970, only those that were recorded at the Price (PCU) station and, in addition, <u>one or more</u> other stations (i.e., a total of <u>two or more</u> stations) are included.
2) For the probable rockbursts recorded during the period April 16, 1970 through December 31, 1970, only those that were recorded at the Price (PCU) station and, in addition, <u>two or more</u> other stations (i.e., a total of three or more stations) are included.

---

* During the period covered by this Bulletin, data recorded at both (1) the Dugway (DUG) station and (2) the Uinta Basin Seismological Observatory (UBO, for period April 15, 1970 through December 31, 1970 only) for earthquakes occurring at teleseismic distances, as well as for local and regional earthquakes of magnitude 4.0 approximately or greater, were promptly forwarded to the Coast and Geodetic Survey (CGS), ESSA, and included in the Earthquake Data Reports and Seismological Bulletin of the CGS.

Unless otherwise indicated, epicenter locations that give specific latitudes and longitudes, depths of focus (h), and magnitudes in the "Remarks" column are taken from the Coast and Geodetic Survey (CGS) Earthquake Data Reports. Epicenter locations of many local earthquakes and blasts, however, were determined also by the staff of the University of Utah Seismograph Stations. These determinations, which are indicated by an asterisk (*) preceding the information in the "Remarks" column, were made using a modified Geiger's epicenter determination method which was programmed for a UNIVAC 1108 digital computer of the University of Utah Computer Center. Data for these events were obtained from not only the University of Utah seismograph stations but also other seismograph stations in Utah and the surrounding states. A more complete discussion of the methods and techniques used in the local earthquake research by the staff of the University of Utah Seismograph stations is given in a paper by Cook and Smith (1967)*. In the case where both CGS and University of Utah epicenter determinations were made on the same event, the epicenter chosen was that believed to be the most accurate based on the number of stations available, the location of the epicenter with respect to reporting stations, and the general characteristics of the events. The number of stations used in the epicenter determination by us is given in parentheses in the "Remarks" column.

International Seismological Centre

The magnitudes ("Mag") of many local events were determined by the staff of the University of Utah Seismograph Stations and are identified in the bulletin as follows:

Determination of magnitude	Notation in "Remarks" column
A. From surface waves	
1) By using the two Wood-Anderson horizontal torsion seismographs at DUG (usually), LOG and/or PCU.	An asterisk (*) or "(U. of U.)"1/
2) By using the two horizontal-component standard Benioff seismographs at DUG.	An asterisk (*) or "(U. of U.)"1/
B. From body waves -- m_b magnitude	
1) By using the vertical-component seismographs at GMU.	"(GMU)"1/
2) By using the vertical-component seismographs at UBO.	"(UBO)"1/

1/ The magnitude value is given opposite the station used in the determination.

* Cook, K. L. and R. B. Smith, 1967, Seismicity in Utah, 1850 through June 1965: Bulletin of the Seismological Society of America, vol. 57, no. 4, p. 689-718, August 1967.

CRITERIA FOR INCLUSION OF SEISMIC EVENTS IN BULLETIN

International Seismological Centre

The decision whether or not to include a seismic event in the Bulletin is based on the following criteria:

A. Criteria for regular stations (other than UBO or GMU):

1. A selected local or regional seismic event may be included, even though it is recorded at one station only. Ordinarily this event is of such quality that one or more of the following characteristics can be determined: epicentral distance, azimuth, and magnitude.

2. A seismic event recorded at two or more regular stations.

3. Bingham blasts that result in ground motion of 10 millimicrons or greater at the Dugway (DUG) station.

4. Criteria for the inclusion of probable rockbursts in the coal-mining areas of Carbon County, Utah are given on page "v".

B. Criteria for Uinta Basin Seismological Observatory (UBO):

The seismic event is included, provided the data from the station include one or more of the following:

1. There is an epicentral distance and a magnitude.

2. There are two stations or more without epicentral distance or magnitude.

3. There is an azimuth.

C. Criteria for Granite Mountain Records Vault (GMU): Same as above for UBO.

International Seismological Centre

A. MONTH and YEAR: These are found in the upper left-hand corner of each page.

B. DAY (GCT): Listed in the left margin in Greenwich Civil Time (GCT); entered in chronological order. Because Greenwich Civil Time (GCT) is 7 hours later than Mountain Standard Time (MST), some GCT dates are 1 day later than the MST date.

C. STA: Station designators. DUG--Dugway, Utah; PCU--Price, Utah; SLC--Salt Lake City, Utah; CCU--Cedar City, Utah; UBO--Uinta Basin Seismological Observatory, near Vernal, Utah; FGU--Flaming Gorge, Utah; GMU--Granite Mountain Records Vault, Utah; and LOG--Logan, Utah.

D. PHASE: For local events, an attempt has been made to better identify the recorded phases by using the phase designations as published in Seismological Tables, Jeffreys and Bullen, 1958. For teleseismic events, only the P phase is usually listed even though other short-period and long-period phases may have been recognizable on the seismograms; and for these events it is hoped that the magnitude and/or ground motion will help the reader to determine whether other phases may appear on the seismogram. For purposes of the bulletin, the prefix "i" (impetus) indicates a phase * timed to 0.1 sec, and the prefix "e" (emersio) indicates a phase ** timed to 0.5 sec. An "e" preceding the phase indicates an emersio phase with undiscernable first motion. A phase designator in parentheses indicates uncertainty of the start of the phase; and in the case of local earthquakes, the parentheses are also indicative that the phase designation is uncertain. For the purpose of the bulletin, the prefixes "i" and "e" without a suffix indicate an unknown phase timed in accordance with the definitions above.

E. DIR: Direction of first motion. Used only when "i" or impetus first motion is recorded on the seismogram. "C" indicates compressional (up) first motion and "D" indicates dilitation (down) first motion.

F. TIME (GCT): All timing is recorded in Greenwich Civil Time (GCT) in hours, minutes, and seconds (to the nearest tenth of a second). For conversion to Mountain Standard Time (MST) and Mountain Daylight Time (MDT):
MST = GCT - 7 hours; and MDT = GCT - 6 hours.

G. PER: Period, in seconds, of the cycle measured for ground motion.

H. GND MOT: Amplitude (Amp) of ground motion, in millimicrons (Mu), of the recorded phase.

I. DIST: Epicentral distance, in kilometers (km), unless otherwise noted.

J. MAG: Magnitude (See page "vi" for methods of determination of magnitudes).

---

* i = sudden beginning of the motion (impetus); impulsive and sharply defined beginning of a phase; direction of motion is usually evident.

** e = gradual beginning of the motion (emersio); poorly defined emergency of a phase.

K. REMARKS: Lists the locations of events and other pertinent data. "Local", "regional", and "teleseismic" indicate events occurring within the following approximate distances, respectively, of the recording station: 50 km; 500 to 1775 km; and more than 1775 km. "h" is depth of focus, in km. Also included in the "Remarks" column are the terms "Bingham blast" and "Rockburst", which were discussed in the previous section.

International Seismological Centre

CHARACTERISTICS AND MAGNIFICATIONS OF SEISMOGRAPHS

The characteristics and magnifications of the seismographs of the University of Utah Seismograph Network during the period of this bulletin are given in Table 1.* Corresponding data for the Utah State University seismographs during the same period are also given in the same table.

COMPILATION OF BULLETIN

This bulletin was compiled by R. Steve Bellon, Senior Technician-Analyst, Grace M. Hathaway, Research Analyst, and Kenneth H. Behrens, Technician-Analyst, under the direction of Dr. Kenneth L. Cook, Director, University of Utah Seismograph Stations.

*See pages "xiv" and "xv" for Table 1.

PHASE IDENTIFICATION FOR LOCAL AND REGIONAL EARTHQUAKES

International Seismological Centre

In this bulletin and in previous bulletins, unless otherwise indicated, the following phases are interpreted on the basis of the observed character of the events on the seismograms and the known local and regional travel-time curves, as observed by (1) Berg and others (1960) and (2) Narans and others (1961).*

P (for primary)--a longitudinal (compressional or dilatational) body wave, in which the rock particles in the earth are vibrating back and forth in the direction of wave propagation.

S (for secondary)--a transverse (or shear) wave, in which the rock particles are vibrating perpendicular to the direction of propagation.

Note: The P and S body waves originate at the focus, or hypocenter (point of origin of an earthquake).

Pn--a compressional wave that has penetrated through the crust and travels as a refracted wave in the upper-mantle rocks of the earth (Pakiser, 1963, p. 2749).

P*--a compressional wave that has penetrated through the upper layer of the crust and travels as a refracted wave in a deeper layer of the crust (Pakiser, 1963, p. 2748-2749).

Pg--a compressional wave that has penetrated through the sedimentary veneer of the earth and travels as a refracted wave in the upper layer of the crust (Pakiser, 1963, p. 2748-2749).

Sn--a shear wave that corresponds approximately to the Pn-phase travel path.

Sg--a shear wave that corresponds approximately to the Pg-phase travel path.

"L", "Lg", or "Sur"--surface waves which are generated when the P and S body waves--which originate at the focus--reach the surface of the earth, and travel along the earth's surface as large amplitude surface waves, designated "Rayleigh waves" (R) and "Love waves" (L). In this bulletin, except as otherwise noted, these two types of surface waves are collectively designated as "L" or "Lg", without attempting to differientiate the Rayleigh and Love waves. For the phase identification of surface waves for UBO recordings only, both the designation "Lg" and "Sur" (but not "L") were used as follows: 1) "Lg" was used when the time of start of the surface wave was well defined; and "Sur" was used when the time of start of the surface wave was poorly defined--i.e., with an uncertainty of several seconds or more generally. As previously described the designation "R" was used for a characteristic seismic event that is thought to be associated with a surface wave arrival related to probable rockbursts in the coal-mining areas in Carbon County, Utah.

*See also the discussion under "D. PHASE" on page"viii"in this bulletin.

International Seismological Centre

Probable rockbursts in coal-mining areas in Carbon County, Utah.--In this bulletin, the phase designations observed from probable rockbursts in the coal-mining areas in Carbon County, Utah, which are modified slightly from those of Norris (1967), are as follows (as generally observed at the Price, Utah (PCU) station):

P (same as "P_3" designation of Norris, 1967, p. 10)--the first compressional arrival which is refracted along the second interface (at an assumed depth of 6.8 km#, according to Norris, 1967, p. 33).

Pg (same as "P_1" designation of Norris, 1967, p. 10)--the direct compressional wave traveling in the top layer of the earth.

R--a phase interpreted by Norris (1967, p. viii) as a Rayleigh wave, which generally arrives within about 15 sec after the compressional P-wave first arrival, but at least several seconds later than the conventional body shear S-wave, which, according to Norris (1967, p. 36) is not generally observed for these probable rockbursts.

Earthquakes in the coal-mining areas in Carbon County, Utah.--In this bulletin, for earthquakes in the coal-mining areas in Carbon County, Utah--as, for example, in the area south of Sunnyside, Utah--the designations P, Pg, and L are generally used for the phases observed at Price, Utah (PCU) station.

Notes:

1. If only two phases are interpreted from either a probable rockburst or earthquake recorded at the Price, Utah (PCU) station, the designations are generally P and R for probable rockbursts and P and L for earthquakes.

2. It should be emphasized that for the seismic events generated in the coal-mining areas of Carbon County, Utah and recorded at the Price (PCU) station, the selection on the seismograms of some of the specific phases outlined above is often ambiguous; and, therefore, it is often difficult or impossible to distinguish the "earthquakes" from "probable rockbursts."

#This depth was based on three reversed refraction seismic profiles taken by the U. S. Geological Survey near the mining area at Sunnyside (Norris 1967, p. 32).

International Seismological Centre

Berg, J. W., Jr., Cook, K. L., Narans, H. D., Jr., and Dolan, W. M., 1960, Seismic investigations of crustal structure in the eastern part of the Basin and Range province: Seismol. Soc. America Bull., v. 50, p. 511-535.

Narans, H. D., Jr., Berg, J. W., Jr., and Cook, K. L., 1961, Subbasement seismic reflections in northern Utah: Jour. Geophys. Research, v. 66, p. 599-603.

Norris, J. W., 1967, Seismic characteristics of coal-mine rockbursts in Utah: Unpublished M. S. thesis, University of Utah, 79 p.

Pakiser, L. C., 1963, Structure of the crust and upper mantle in the western United States: Jour. Geophys. Research, v. 68, p. 5747-5756.

International Seismological Centre

ACKNOWLEDGMENTS

Financial support for the bulletin was provided as follows: (1) the Utah Earthquake Bulletin Project, Uniform School Fund, University of Utah (prior to July 1, 1971); (2) the Department of Geological and Geophysical Sciences, University of Utah (during July 1, 1968 to June 30, 1971); (3) the University Research Fund of the University of Utah (prior to July 14, 1970); and (4) Utah State funds, in line-item budgets to the University of Utah from the Utah State Legislature (since July 1, 1971). Partial support for the bulletin and operation of (1) the Dugway (DUG) and Salt Lake City (SLC) seismograph stations (effective October 1, 1965) and (2) the Flaming Gorge station (effective July 1, 1970) was provided by the Coast and Geodetic Survey (CGS), Environmental Science Services Administration (ESSA), U. S. Department of Commerce.* Support for the installation and operation of the seismological equipment in the Granite Mountain Records Vault, located about 15 miles south-southeast of Salt Lake City, Utah, during March 1, 1970 to June 30, 1973 was provided through Contract No. AT(26-1)-488 with the U. S. Atomic Energy Commission (AEC). Support for the operation of the Uinta Basin Seismological Observatory, near Vernal, Utah, was provided by (1) the National Science Foundation (NSF Grant GA 21120) from April 15, 1970 to May 31, 1974 and (2) the University of Utah Institutional Funds during July 1, 1972 to June 30, 1973. The compilation, proofreading, and editing of this bulletin was done partly with the above-mentioned support of ESSA, the AEC, NSF, and University of Utah Institutional Funds. The seismograms from the seismograph station at Utah State University were made available through the cooperation of Dr. Clyde T. Hardy, Chairman, Department of Geology, Utah State University, Logan, Utah. Some data used in the bulletin were obtained from the Earthquake Data Reports and Seismological Bulletin of the Coast and Geodetic Survey, Environmental Science Services Administration (ESSA), U. S. Department of Commerce.*

Please address all communications to:

Dr. Kenneth L. Cook, Director
University of Utah Seismograph Stations
Mineral Science Building
University of Utah
Salt Lake City, Utah, U. S. A. 84112

* Effective July 1, 1970 and continuing through April 30, 1971, the name of the Coast and Geodetic Survey (CGS), of the Environmental Science Services Administration (ESSA), was changed to National Ocean Survey (NOS), of the National Oceanic and Atmospheric Administration (NOAA).

Table 1. Characteristics and Magnifications of the Seismographs of the University of Utah Seismograph Network during the Period January 1, 1970 to December 31, 1970 and the Seismographs of the Utah State University during the Same Period (Continued).

Stations and Instruments	Components	To[1] (sec)	Tg[1] (sec)	Trace Speed (mm/min)	Approximate Magnification	Approximate Damping-- Seismometers	Approximate Damping-- Galvanometers
Uinta Basin Seismological Observatory, Vernal, Utah (UBO)[3, 8]							
Geotech 18,300[2]	Z	1.0	---	30[4]	600,000 @ 1.0 Hz	Critical	Critical
Johnson-Matheson	N, E	1.0	---	30[4]	600,000 @ 1.0 Hz	Critical	Critical
Standard Benioff	Z	1.0	---	30[4],3[5]	12,100 @ 1.0 Hz	Critical	Critical
Geotech	Z, N, E	20.0	100	3[5]	100,000 @ 0.05 Hz	Critical	Critical
Granite Mountain, Utah (GMU)[9]							
Mark Products	Z, N, E	1.0	---	30[4]	1,000,000 @ 1.0 Hz	Critical	Critical
Added levels of recording for Z only					100,000 @ 1.0 Hz	Critical	Critical
Added levels of recording for Z only					10,000 @ 1.0 Hz	Critical	Critical
Flaming Gorge, Utah (FGU)[10]							
Portable Benioff	Z, N, E	1.0	---	7.5[6]	200,000[7] @ 1.0 Hz	Critical	Critical

1 To = natural period of the seismometer, Tg = natural period of the galvanometer.
2 10 seismometers in holes 250 feet deep in Star-of-David array (See Fig. 2).
3 Summation and filtered trace for 10 vertical seismometers: magnification = 6,000,000.
4 Recording on Geotech develocorder screen: Scale 30 mm/min; on film viewer (enlarger), scale is 600mm/min.
5 Recording on Geotech develocorder screen: Scale 30mm/min; on film viewer (enlarger), scale is 60mm/min.
6 On film viewer, scale is 60mm/min.
7 Magnification kept within ± 10% of 200,000.
8 UBO began operation under management of University of Utah on April 15, 1970; and recordings of seismic events on develocorder film were started on this date.
9 The telemetering of seismic signals from GMU to the University of Utah campus began on Sept. 8, 1970; and recordings of seismic events on develocorder film were started on this date.
10 FGU began operation under management of University of Utah on July 7, 1970; and recordings of seismic events on film were started on this date.

International Seismological Centre

Table 1. Characteristics and Magnifications of the Seismographs of the University of Utah Seismograph Network during the Period January 1, 1970 to December 31, 1970 and the Seismographs of the Utah State University During the Same Period.

Stations and Instruments	Components	To[1] (sec)	Tg[1] (sec)	Trace Speed (mm/min)	Approximate Magnification	Approximate Damping-- Seismometers	Approximate Damping-- Galvanometers
Dugway, Utah (DUG)							
Standard Benioff	Z, N, E	1.0	0.75	60	200,000[2] @ 1.0 Hz	Critical	Critical
Sprengnether	Z, N, E	15.0	100.0	30	3,000 @ 0.0667 Hz	Critical	Critical
Wood-Anderson	N, E	0.8	---	60	2,800 ---	Critical	Critical
Logan, Utah (LOG)							
Wilson-Lamison	Z	1.0	1.5	60	125,000 @ 1.0 Hz	Underdamped	Critical
Wood-Anderson	N, E	0.8	---	60	2,800 ---	Critical	---
Price, Utah (PCU)							
Portable Benioff	N	1.0	1.5	60	21,000 @ 1.0 Hz	Critical	Critical
	E	1.0	1.4	60	20,000 @ 1.0 Hz	Critical	Critical
	Z	0.25	1.35	60	68,000 @ 1.0 Hz	Critical	Critical
Wood-Anderson	N, E	0.8	---	60	2,800 ---	Critical	---
Salt Lake City, Utah (SLC)							
Portable Benioff	N, E	1.0	1.5	60	15,000 @ 1.0 Hz	Critical	Critical
	Z	1.0	1.5	60	42,000[3] @ 1.0 Hz	Critical	Critical
Wilson-Lamison	Z	1.1	1.8	60	25,000 @ 1.4 Hz	Critical	Critical
McComb-Romberg	N, E	10.0	---	15	470 @ 10.0 Hz	Critical	---
Cedar City, Utah (CCU)							
Portable Benioff	N	1.0	1.5	60	48,000 @ 1.0 Hz	Critical	Critical
	E	1.0	1.5	60	43,000 @ 1.0 Hz	Critical	Critical
	Z	1.0	1.5	60	31,000 @ 1.0 Hz	Critical	Critical

[1]To = natural period of the seismometer, Tg = natural period of the galvanometer.
[2]400,000 during May 1, 1970 through Sept. 30, 1970 and then back to 200,000 on Oct. 1, 1970 through Dec. 31, 1970.
[3]Magnification changed to 41,000 on Jan. 1, 1970.

International Seismological Centre

October 4, 1974

NOTICE

International Seismological Centre

Reprints of the following paper are now available:

"Seismicity in Utah, 1850 through June 1965," by Kenneth L. Cook and Robert B. Smith, published in the Bulletin of the Seismological Society of America, vol. 57, p. 689-718, August issue 1967. The paper includes an Earthquake Epicenter Map of the State of Utah and a catalog of Utah earthquakes.

As long as they are available, reprints may be obtained at cost plus handling (totaling $1.50 each) by writing:

Dr. Kenneth L. Cook, Director
University of Utah Seismograph Stations
Mineral Science Building
University of Utah
Salt Lake City, Utah 84112

LIST OF PREVIOUSLY PUBLISHED SEISMOLOGICAL BULLETINS OF THE UNIVERSITY OF UTAH

Contribution No.	Period	Date Published
50	July 1 - September 30, 1962	Dec. 30, 1963
54	October 1 - December 31, 1962	Apr. 1, 1964
55	January 1 - March 31, 1963	June 15, 1964
56	April 1 - June 30, 1963	July 1, 1964
58	July 1 - September 30, 1963	Nov. 1, 1964
59	October 1 - December 31, 1963	Feb. 9, 1965
61	January 1 - March 31, 1964	May 11, 1965
62	April 1 - June 30, 1964	June 2, 1965
63	July 1 - September 30, 1964	Aug. 30, 1965
64	October 1 - December 31, 1964	Dec. 7, 1966
83	January 1 - March 31, 1965	Mar. 1, 1967
84	April 1 - June 30, 1964	July 8, 1967
85	July 1 - September 30, 1965	Aug. 1, 1967
86	October 1 - December 31, 1965	Aug. 1, 1967
90	January 1 - March 31, 1966	Apr. 8, 1968
91	April 1 - June 30, 1966	Apr. 8, 1968
92	July 1 - December 31, 1966	June 15, 1973
93	January 1 - December 31, 1967	Aug. 16, 1974
101	January 1 - December 31, 1968	Aug. 16, 1974
102	January 1 - December 31, 1969	Sept. 18, 1974

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Jan 1	PCU	eP		20 46 09.8			45		South of Sunnyside, Utah.
		ePg		20 46 14.6					
		eL		20 46 22.2					
2	PCU	eP		15 47 26.7			45		South of Sunnyside, Utah.
		ePg		15 47 31.5					
		eL		15 47 37.7					
	CCU	ePn		20 01 52.1			156		Southern Nevada.
		ePg		20 01 54.2					
		eL		20 02 13.2					
	DUG	eP		20 02 13.0			456		
		ePg		20 02 26.0					
		eL		20 03 18.5					
	PCU	ePg		20 02 36.6			460		
		eL		20 03 29.8					
	PCU	eP		22 29 21.2			45		South of Sunnyside, Utah.
		ePg		22 29 25.7					
		eL		22 29 32.2					
3	PCU	eP		07 14 03.6			45		South of Sunnyside, Utah.
		ePg		07 14 08.8					
		eL		07 14 14.6					
4	DUG	eP		22 58 02.3	0.4	4.2	320		Local.
		ePg		22 58 04.5					
		eL		22 58 46.5					
5	PCU	ePn		02 28 03.2			245		Local.
		ePg		02 28 10.3					
		eL		02 28 35.7					
	DUG	eP*		21 57 15.9	0.6	14.2			Bingham blast.
6	DUG	ePn		02 31 02.1	7.0	2.5	833	4.1	Central California 36.5 N, 121.1 W
		ePg		02 31 30.3					02 29 07.5 h = 10 km Mag. 4.1.
		eL		02 33 04.7					Felt at Hollister and Salinas

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Jan 6 (con't)	PCU	eP		08 09 22.5			45	*2.0	South of Sunnyside, Utah Mag. 2.0 (U. of U.).
		ePg		08 09 27.5					
		eL		08 09 31.3					
	DUG	eP		08 09 45.0					
	DUG	ePn		11 35 52.6			178		Local.
		eL		11 36 16.5					
	DUG	ePn		12 07 11.5	0.6	4.0	170		Local.
		ePg		12 07 13.5					
		eL		12 07 35.7					
	DUG	eP*		21 52 21.6	0.6	12.6			Bingham blast.
7	PCU	eP		04 17 21.7			145		Local.
		ePg		04 17 34.3					
		eL		04 17 40.8					
	SLC	eP		07 46 52.7			156		Local.
		ePg		07 46 57.8					
		eL		07 47 14.6					
	DUG	ePn		07 46 55.3	0.5	7.1	267		
		ePg		07 46 57.7					
		eP		07 47 20.3					
	SLC	eP		12 28 58.5			467		Montana 45.0 N, 111.6 W 12 27 53.4
	DUG	eP		12 29 04.8			545	4.9	h = 33 km Mag. 4.9.
									Felt in Hebgen Lake Area.
	PCU	eP		17 31 34.8			45		South of Sunnyside, Utah.
		ePg		17 31 41.2					
		eL		17 31 45.8					
	DUG	eP		19 33 28.2			245		Local.
		ePg		19 33 32.0					
		eL		19 34 00.0					
8	DUG	eP		17 02 42.0			1003	4.4	Off Coast of California 34.4 N, 121.7 W
									17 00 33.2 h = 33 km Mag. 4.4.
	SLC	eP		21 35 33.5			41		Near Salt Lake City, Utah
		ePg		21 35 37.2					Mag. 1.8 (U. of U.).
		eL		21 35 38.7					
	DUG	eP		21 35 51.5				*1.8	

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Jan 9	SLC	eP		21 28 39.4			167		Local.
		eL		21 29 02.3					
	DUG	eP		21 28 47.5					
10	PCU	eP		06 24 19.5			122		Local.
		ePg		06 24 24.8					
		eL		06 24 33.6					
	PCU	eP		10 15 09.6			156		Local.
		ePg		10 15 20.2					
		eL		10 15 31.0					
	PCU	eP		21 56 04.6			275		Local.
		ePg		21 56 17.1					
		eL		21 56 40.8					
	DUG	eP*		22 03 30.3	0.6	11.1			Bingham blast.
	PCU	eP		23 34 18.3			150		Local.
		ePg		23 34 29.5					
		eL		23 34 38.4					
	DUG	eP		23 34 34.5	0.5	1.8			
11	PCU	eP		16 44 45.1			78		Near Price, Utah.
		ePg		16 44 47.4					
		eL		16 44 53.4					
	DUG	ePn		22 53 30.5			234		Local.
		ePg		22 53 34.1					
		eL		22 54 00.3					
12	SLC	ePg		19 42 10.9			234		Local.
		eL		19 42 37.2					
	DUG	ePn		19 42 19.4			380		
		ePg		19 42 29.5					
		eLg		19 43 13.2					
	PCU	ePn		21 42 23.7			212		Local.
		ePg		21 42 35.0					
		eL		21 42 53.2					
	DUG	eP		21 42 46.1					
	DUG	eP*		22 04 35.5	0.6	12.6			Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Jan 13	DUG	eP		21 59 26.5			89	*2.5	Near Delta, Utah Mag. 2.5 (U. of U.).
		ePg		21 59 29.1					
		eL		21 59 43.6					
	PCU	ePg		21 59 29.2			134		
		eL		21 59 44.2					
15	PCU	eP		15 02 42.3			45		South of Sunnyside, Utah.
		ePg		15 02 47.4					
		eL		15 02 53.7					
	SLC	ePg		21 53 06.9				*1.5	Near Salt Lake City, Utah Mag. 1.5 (U. of U.).
		eL		21 53 11.2					
	DUG	eP*		21 55 46.5	0.6	13.4			Bingham blast.
16	PCU	eP		00 45 37.5			45		South of Sunnyside, Utah.
		ePg		00 45 41.7					
		eL		00 45 48.3					
	PCU	ePn		03 19 30.8			145		Local.
		ePg		03 19 40.3					
		eL		03 19 49.5					
	CCU	eP		21 30 29.5			56		Near Cedar City, Utah.
		ePg		21 30 32.3					
		eL		21 30 37.7					
18	PCU	eP		07 57 07.8			45		South of Sunnyside, Utah.
		ePg		07 57 13.3					
		eL		07 57 18.8					
	DUG	eP*		22 53 44.5	0.6	10.3			Bingham blast.
	DUG	ePn		23 00 51.6	0.6	1.6	234		Eastern Nevada.
		ePg		23 00 56.2					
		eL		23 01 22.5					
	CCU	ePn		23 00 58.7			245		
		ePg		23 01 01.3					
		eL		23 01 30.2					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Jan 19	DUG	eP		07 18 38.0	1.0	2.5	1000	4.2	Baja California 31.5 N, 116.0 W 07 16 23.2 h = 33 km Mag. 4.2.
20	PCU	eP		04 31 11.0			160		Local.
		ePg		04 31 20.5					
		eL		04 31 30.7					
	DUG	eP*		21 50 33.6	0.6	12.6			Bingham blast.
21	PCU	ePn		04 57 38.7			156		Local.
		eP*		04 57 41.7					
		ePg		04 57 51.0					
		eL		04 57 59.5					
	PCU	eP		05 34 05.7			140		Local.
		ePg		05 34 11.7					
		eL		05 34 23.0					
	PCU	ePn		06 44 31.7			150		Local.
		eP*		06 44 39.9					
		ePg		06 44 46.1					
		eL		06 44 51.5					
	PCU	eP		12 37 18.3			45		South of Sunnyside, Utah.
		ePg		12 37 21.7					
		eL		12 37 28.7					
	DUG	eP		12 37 48.5					
	DUG	eP		13 47 06.8			478		Nevada 39.0 N, 118.2 W 13 45 52.7 h = 10 km.
	PCU	eP		18 39 56.6			140		Local.
		ePg		18 40 04.2					
		eL		18 40 13.9					
22	PCU	eP		06 27 52.9			140		Near Price, Utah.
		ePg		06 27 58.2					
		eL		06 28 10.2					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Jan 22 (con't)	PCU	eP		12 49 26.7			33		Utah "Coal Bump" near Sunnyside, Utah 39.6 N, 110.4 W 12 49 23.0 h = 1 km Mag. 3.7 (U. of U.).
		ePg		12 49 28.3					
		eR		12 49 37.8					
	SLC	ePg		12 49 52.9			167		
		eL		12 50 21.0					
	DUG	ePn		12 49 56.4			212	*3.7	
		ePg		12 50 00.0					
		eL		12 50 27.8					
	LOG	ePn		12 50 04.1			278		
		ePg		12 50 05.1					
		eL		12 50 44.7					
	CCU	ePn		12 50 11.0			312		
		ePg		12 50 19.8					
		eL		12 51 04.8					
	PCU	eP		14 10 35.8			134		Near Price, Utah.
		ePg		14 10 42.1					
		eL		14 10 52.8					
	DUG	eP*		22 25 19.4	0.6	11.1			Bingham blast.
23	SLC	eP		14 55 16.0			80		Local.
		ePg		14 55 22.0					
		eL		14 55 27.0					
	DUG	eP		16 31 04.1			430	*4.6	Nevada Test Site "Fob" 37.21 N, 116.04 W 16 30 00.00 h = 0 km Mag. 4.6 (U. of U.).
24	PCU	eP		09 00 08.7			145		Local.
		ePg		09 00 20.6					
		eL		09 00 27.4					
	PCU	eP		10 28 45.0			140		Local.
		ePg		10 28 54.9					
		eL		10 29 03.4					
	PCU	eP		14 14 41.6			140		Local.
		ePg		14 14 47.4					
		eL		14 14 58.7					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Jan 25	LOG	eP		08 08 53.0			178		Southern Idaho Mag. 3.0 (U. of U.).
		ePg		08 09 08.8					
		eL		08 09 18.4					
	DUG	eP		08 09 16.7	0.5	5.3	367	*3.0	
		ePg		08 09 32.9					
		eL		08 10 10.5					
	PCU	ePn		08 09 23.5			378		
		ePg		08 09 38.8					
		eL		08 10 15.5					
	CCU	ePn		12 08 46.7			140		Southern Nevada.
		ePg		12 08 57.5					
		eL		12 09 03.7					
	DUG	eP		12 09 29.3			350		
		ePg		12 09 34.1					
		eL		12 10 19.2					
	PCU	ePg		12 09 33.5			401		
		eL		12 10 18.2					
	DUG	eP		20 23 02.7			589		California-Nevada Border Region 37.6 N, 118.7 W 20 21 23.1 h = 5 km.
26	CCU	ePg		10 58 58.0			170		Local.
		eL		10 59 22.3					
	DUG	eP		10 59 28.4					
	SLC	ePg		23 02 01.5			19		Near Salt Lake City, Utah.
		eL		23 02 03.7					
27	DUG	eP		21 11 03.6	0.9	3.0	120	*2.6	Near Bloom, Utah Mag. 2.6 (U. of U.).
		ePg		21 11 06.8					
		eL		21 11 21.8					
	PCU	ePn		21 11 05.6			200		
		ePg		21 11 18.7					
		e(L)		21 11 33.9					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp (Mu)	Dist (km)	Mag	Remarks
Jan 28	PCU	eP		08 48 03.2			45		South of Sunnyside, Utah.
		ePg		08 48 10.1					
		eL		08 48 14.2					
29	DUG	eP		07 16 01.1	0.9	48.9		5.6	Eastern Kazakh SSR 49.8 N, 78.2 E
									07 02 57.5 h = 0 km Mag. 5.6.
	LOG	ePg		07 35 29.1			67		*North of Bear Lake, in Idaho 42.32 N, 111.79 W
		eL		07 35 36.1					07 35 18.3 h = 30 km Mag. 4.3 (4 sta).
	SLC	ePn		07 35 43.4			189		
		ePg		07 35 47.9					
		eL		07 36 08.9					
	DUG	eP		07 35 53.7	0.6	4.7	250	*4.3	
	PCU	eP		07 36 01.7			345		
		eL		07 36 50.1					
30	PCU	ePn		00 01 12.1			256		Local.
		ePg		00 01 29.3					
		eL		00 01 48.1					
	PCU	eP		00 19 32.3			45		South of Sunnyside, Utah.
		ePg		00 19 39.5					
		eL		00 19 43.3					
	DUG	ePn		17 01 03.8	0.4	2.1	445	*4.8	Nevada Test Site "Ijo" 37.14 N, 116.03 W
		ePg		17 01 17.1					17 00 00.1 h = 0 km Mag. 4.8
		eL		17 02 07.0					(U. of U.).
	PCU	ePn		17 01 16.8			509		
		ePg		17 01 35.0					
		eL		17 02 31.1					
	SLC	ePn		17 01 19.7			534		
		ePg		17 01 37.3					
		eL		17 02 47.3					
	CCU	eP		17 01 40.8					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Jan 30 (con't)	DUG	eP		17 11 06.5			460	*4.3	"Ijo" Cavity Collapse Mag. 4.3 (U. of U.).
		eP		17 11 19.5					
		eL		17 12 14.0					
	PCU	ePn		17 11 12.5			567		
		ePg		17 11 24.1					
		eL		17 12 36.7					
	SLC	eP		17 11 12.9			575		
		ePg		17 11 43.5					
		eL		17 12 37.6					
31	PCU	eP		00 00 43.7			289		Local.
		ePg		00 00 54.2					
		eL		00 01 23.1					
	PCU	eP		09 43 19.3			45	2.0*	South of Sunnyside, Utah Mag. 2.0 (U. of U.).
		eL		09 43 30.6					
	DUG	eP		09 43 50.9					
	PCU	eP		09 57 04.4			45		South of Sunnyside, Utah.
		eL		09 57 15.4					
	DUG	eP		09 57 35.4					
	DUG	eP		11 34 03.5	1.5	18.2		4.5	Off Coast of Oregon 42.2 N, 126.5 W 11 31 29.3 h = 33 km Mag. 4.5 (CGS), 4.75 (GOL).
Feb 1	LOG	ePn		04 16 05.2			145		Southwestern Wyoming.
		ePg		04 16 06.6					
		eL		04 16 24.1					
	SLC	eP		04 16 20.0			250		
		ePg		04 16 23.3					
		eL		04 16 52.5					
	DUG	ePn		04 16 29.3	0.6	7.1	390		
		ePg		04 16 42.1					
		eL		04 17 24.3					
	PCU	ePn		04 16 36.0			356		
		ePg		04 16 50.7					
		eL		04 17 26.0					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Feb 1 (con't)	LOG	ePg		04 25 22.2			145		Southwestern Wyoming.
		eL		04 25 41.1					
	SLC	ePn		04 25 39.0			245		
		ePg		04 25 46.5					
		eL		04 26 11.5					
	DUG	ePn		04 25 46.6			340		
		ePg		04 25 59.0					
		eL		04 26 40.5					
	PCU	ePn		04 25 53.8			356		
		ePg		04 26 08.5					
		eL		04 26 43.8					
2	DUG	eP		17 13 53.5			167		Local.
		eL		17 14 16.5					
	DUG	eP*		22 11 18.5	0.6	13.4			Bingham blast.
	DUG	ePn		22 54 50.4			245		Local.
		ePg		22 54 56.0					
		eL		22 55 22.5					
	CCU	ePg		22 54 55.4					
		eL		22 55 28.0					
	CCU	eP		23 21 51.2			78		Near Cedar City, Utah.
		ePg		23 21 54.0					
		eL		23 21 58.9					
3	PCU	ePn		06 00 16.7			223		Colorado 37.9 N, 108.3 W 05 59 35.6
		ePg		06 00 25.7					05 59 35.6 h = 33 km Mag. 4.0.
		eL		06 00 56.4					
	DUG	eP		06 00 39.5			440	4.0	
	CCU	ePn		06 00 43.5			356		
		ePg		06 00 46.5					
		eL		06 01 33.7					
	SLC	ePg		06 00 49.3			501		
		eL		06 01 47.4					
	LOG	ePg		06 00 54.5			600		
		e		06 01 47.2					
		eL		06 02 05.5					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Feb 3 (con't)	PCU	ePn		08 42 43.9			312		Southeastern Utah Mag. 2.8 (U. of U.).
		ePg		08 42 51.2					
		eL		08 43 25.8					
	CCU	ePn		08 43 08.7			350		
		ePg		08 43 13.5					
		eL		08 43 57.8					
	DUG	eP		08 43 11.8				*2.8	
	LOG	e(Pg)		08 43 33.5			489		
		eL		08 44 30.5					
	PCU	ePn		11 35 41.7			280		Local.
		ePg		11 35 47.5					
		eL		11 36 19.5					
	DUG	eP		11 36 10.5	0.5	0.9			
	CCU	eP		11 36 04.5			456		
		ePg		11 36 08.5					
		eL		11 36 54.2					
	DUG	eP*		22 02 24.6	0.6	12.6			Bingham blast.
4	CCU	ePn		17 00 40.7			289		Nevada Test Site "Grape B" 37.18 N, 116.03 W 17 00 00.00 h = 0 km Mag. 5.8 (U. of U.).
		ePg		17 00 45.6					
		eL		17 01 20.0					
	DUG	ePn		17 01 01.8	0.8	27.2	445	*5.8	
		ePg		17 01 13.9					
		eL		17 01 52.3					
	PCU	ePn		17 01 14.6			389		
		ePg		17 01 23.0					
		eL		17 02 06.9					
	SLC	ePn		17 01 17.8			456		
		ePg		17 01 34.3					
		eL		17 02 40.8					
	CCU	eP		22 08 45.0			90		Near Cedar City, Utah.
		ePg		22 08 49.8					
		eL		22 08 54.0					
	PCU	ePn		23 59 46.1			145		Local.
		ePg		23 59 57.9					
		eL		00 00 05.1					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Feb 5	PCU	eP		03 07 53.7			45		South of Sunnyside, Utah.
		ePg		03 07 57.0					
		eL		03 07 04.5					
	PCU	eP		14 55 56.5			45		South of Sunnyside, Utah.
		ePg		14 56 05.6					
		eL		14 56 11.5					
	CCU	ePn		15 00 40.7			190		Nevada Test Site "Labis" 37.27 N, 116.20 W
		eL		15 01 08.0					15 00 00.00 h = 0 km Mag. 4.8
	DUG	eP		15 01 02.7	0.4	8.5	445	*4.8	(U. of U.).
		ePg		15 01 15.1					
		eL		15 02 04.9					
	PCU	ePn		15 01 12.4			467		
		ePg		15 01 26.3					
		eL		15 02 20.2					
	SLC	ePn		15 01 18.2			501		
		ePg		15 01 32.7					
		eL		15 02 30.2					
	CCU	eP		19 37 44.6			330		Nevada Test Site "Labis" Cavity Collapse
		ePg		19 37 50.5					37.27 N, 116.20 W 19 37 04.00
		eL		19 38 30.1					h = 0 km Mag. 4.3.
	DUG	ePn		19 38 03.6			478	4.3	
		ePg		19 38 20.9					
		eL		19 40 09.0					
	SLC	ePn		19 38 19.9			534		
		ePg		19 38 40.0					
		eL		19 39 39.4					
	PCU	ePn		19 38 22.3			512		
		ePg		19 38 34.1					
		eL		19 39 38.3					
6	CCU	ePn		09 29 41.2			140		Near Teasdale, Utah Mag. 2.0 (U. of U.).
		ePg		09 29 50.4					
		eL		09 29 59.0					
	DUG	ePn		09 30 10.3			256	*2.0	
		ePg		09 30 13.2					
		eL		09 30 44.7					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Feb 6 (con't)	PCU	eP		16 08 55.8			45		South of Sunnyside, Utah.
		ePg		16 09 00.8					
		eL		16 09 06.8					
	PCU	ePn		16 18 23.8			140		Local.
		ePg		16 18 32.3					
		eL		16 18 40.8					
	DUG	ePn		23 09 31.2	0.6	3.2	240	*2.8	San Rafael Swell, Utah Mag. 2.8 (U. of U.).
		ePg		23 09 35.6					
		eL		23 10 03.0					
	CCU	ePn		23 09 38.5			223		
		ePg		23 09 46.2					
		eL		23 10 09.5					
7	PCU	eP		00 14 06.8			45		South of Sunnyside, Utah.
		ePg		00 14 11.8					
		eL		00 14 17.8					
	DUG	eP		23 51 08.1	0.6	13.4			Bingham blast.
8	PCU	eP		08 06 03.8			45		South of Sunnyside, Utah.
		ePg		08 06 08.3					
		eL		08 06 14.8					
	PCU	eP		08 08 02.3			45	*2.0	South of Sunnyside, Utah Mag. 2.0 (U. of U.).
		ePg		08 08 07.2					
		eL		08 08 13.3					
	CCU	ePg		15 57 12.7			178		Southeastern Nevada.
		eL		15 57 37.8					
	DUG	eP		15 57 27.2	0.4	1.1	390	3.0	
		ePg		15 57 34.2					
		eL		15 58 22.4					
9	DUG	eP		01 57 28.1			489		Eastern Idaho 44.6 N, 112.4 W
		eL		01 57 40.6					01 56 21.2 h = 33 km.
	PCU	eP		01 57 35.8			556		
		ePg		01 57 50.4					
		eL		01 58 58.3					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Feb 9	DUG	eP*		21 56 20.4	0.6	13.4			Bingham blast.
(con't)	DUG	eP		22 38 06.0			135		Local.
		eL		22 38 23.5					
	PCU	ePg		22 38 18.7					
10	DUG	eP*		21 59 42.1	6.0	23.8			Bingham blast.
11	PCU	eP		16 54 01.4					South of Sunnyside, Utah.
		ePg		16 54 08.7					
		eL		16 54 12.6					
	DUG	ePn		19 16 03.0	0.6	2.4	440	*4.7	Nevada Test Site "Diana Mist"
		ePg		19 16 14.9					37.29 N, 116.25 W 19 15 00.00
		eL		19 17 07.8					h = 0 km Mag. 4.7 (U. of U.).
	PCU	eP		19 16 17.8			505		
		ePg		19 16 32.1					
		eL		19 17 32.1					
	SLC	ePn		19 16 19.0			545		
		ePg		19 16 39.2					
		eL		19 17 40.2					
	SLC	eP		22 24 39.1			34		Near Salt Lake City, Utah.
		eL		22 24 43.1					
	DUG	eP		22 24 54.1					
	DUG	ePn		23 08 17.6	0.6	2.4	267	*3.0	Southeastern Nevada Mag. 3.0 (U. of U.).
		ePg		23 08 23.0					
		eL		23 08 47.5					
	CCU	ePg		23 08 23.9			278		
		eL		23 08 54.5					
12	DUG	eP		13 25 22.6			501		California-Nevada Border Region
									36.6 N, 116.3 W 13 23 58.5 h = 3 km.
	PCU	eP		14 18 18.6					South of Sunnyside, Utah.
		eL		14 18 31.0					
	DUG	eP		14 18 50.6	0.6	6.3			

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Feb 12 (con't)	SLC	eP		17 31 48.9			137		Local.
		ePg		17 31 55.9					
		eL		17 32 04.9					
	DUG	ePn		17 31 51.9	0.4	4.2	143		
		ePg		17 31 53.5					
		eL		17 32 08.4					
	PCU	eP		17 40 56.9			45		South of Sunnyside, Utah.
		ePg		17 41 03.4					
		eL		17 41 11.6					
13	PCU	ePn		19 41 26.9			189		Local.
		ePg		19 41 36.4					
		e		19 41 47.2					
		eL		19 41 52.5					
14	DUG	eP		22 01 36.9	0.6	11.1			Bingham blast.
	DUG	ePn		23 11 10.1			300		Local.
		ePg		23 11 16.1					
		eL		23 11 49.0					
	CCU	ePg		23 11 50.7			470		
		eL		23 12 45.7					
15	DUG	eP		05 08 58.1			118		Local.
		eL		05 09 11.5					
	DUG	eP		19 45 16.0			245		Local.
		ePg		19 45 20.1					
		eL		19 45 47.0					
16	DUG	eP		16 38 04.6			134	*2.0	Near Delta, Utah Mag. 2.0 (U. of U.).
		eL		16 38 21.0					
	SLC	eP		16 38 07.3			167		
		eL		16 38 30.8					
17	CCU	eP		06 03 10.0			52		Near Cedar City, Utah.
		ePg		06 03 11.3					
		eL		06 03 16.1					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Feb 17 (con't)	DUG	eP		18 44 52.5			140		Local.
		eL		18 45 09.5					
	SLC	ePg		18 44 53.1			167		
		eL		18 45 16.0					
	DUG	eP		20 36 24.0			445		Local.
		eL		20 37 28.0					
	DUG	eP		22 01 10.8			134		Local.
		eL		22 01 27.2					
	DUG	ePn		22 54 40.2			167		Local.
		ePg		22 54 43.4					
		eL		22 55 10.7					
18	DUG	eP		19 34 30.1			145		Local.
		eL		19 34 46.1					
	CCU	iP	C	22 26 17.5			85		Near Cedar City, Utah Mag. 2.3 (U. of U.).
		ePg		22 26 23.0					
		eL		22 26 26.5					
	DUG	eP		22 27 00.4			245	*2.3	
		ePg		22 27 03.2					
		eL		22 27 30.7					
19	DUG	eP		05 51 07.6	0.4	4.2	145		Local.
		eL		05 51 26.4					
	DUG	eP		18 11 42.1			134		Local.
		eL		18 11 58.1					
20	CCU	ePg		20 47 53.0			44		Near Cedar City, Utah.
		eL		20 47 58.2					
	DUG	eP		23 28 29.1			167		Local.
		ePg		23 28 31.0					
		eL		23 29 05.6					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Feb 21	PCU	eP		06 13 52.5			33		Utah "Coal Bump" near Sunnyside, Utah.
		ePg		06 13 55.5					39.4 N, 110.6 W 06 13 45.9 h = 0 km
		eR		06 14 15.7					Mag. 3.6 (U. of U.).
	SLC	ePn		06 14 16.8			189		
		ePg		06 14 22.2					
		eL		06 14 47.0					
	DUG	ePn		06 14 23.7	0.5	1.8	212	*3.6	
		ePg		06 14 27.5					
		eL		06 15 02.5					
	LOG	ePn		06 14 34.4			289		
		ePg		06 14 39.9					
		eL		06 15 11.2					
	PCU	eP		22 11 39.5			300		Local.
		ePg		22 11 50.2					
		eL		22 12 21.3					
	DUG	eP		22 11 57.9					
22	DUG	eP		15 25 21.0	1.0	2.5	1122	4.5	Off Coast of Oregon 43.5 N, 126.8 W
									15 22 43.6 h = 33 km Mag. 4.5.
23	DUG	eP		07 54 28.2			1011	4.3	Off Coast of California 34.5 N, 121.8 W
	PCU	eP		07 54 43.8					07 52 11.9 h = 10 km Mag. 3.8 (BRK),
									4.3 (CGS).
	SLC	ePg		20 48 26.7			25		Near Salt Lake City, Utah.
		eL		20 48 29.2					
	DUG	eP		20 48 44.1	0.6	3.2			
24	PCU	eP		00 00 56.4					Probable rockburst near Sunnyside, Utah.
		ePg		00 01 03.6					
		eR		00 01 14.5					
	DUG	eP		00 01 32.3					
	DUG	eP		21 02 42.6			140		Local.
		eL		21 02 59.9					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Feb 25	CCU	eP		06 01 34.2			89		Southern Utah-Nevada Border.
		ePg		06 01 38.5					
		eL		06 01 44.2					
	DUG	eP		06 02 10.3			250		
		eL		06 02 43.0					
	PCU	ePn		14 29 34.4			356		Nevada Test Site "Cummarin" 37.11 N, 116.01 W
		ePg		14 29 55.2					14 28 38.00 h = 0 km Mag. 5.4.
		eL		14 30 24.0					(U. of U.).
	DUG	ePn		14 29 39.0			445	*5.4	
		ePg		14 29 51.5					
		eL		14 30 43.5					
	SLC	eP		14 29 56.9			545		
		ePg		14 30 10.9					
		eL		14 31 06.2					
	SLC	ePg		16 39 51.2			25	*2.0	Near Salt Lake City, Utah Mag. 2.0
		eL		16 39 54.9					(U. of U.).
	DUG	eP		16 40 08.1	0.6	3.2			
26	CCU	eP		15 30 41.7			223		Nevada Test Site "Yannigan"
		ePg		15 30 49.6					37.17 N, 116.09 W 15 30 00.00 h = 0 km
		eL		15 31 11.5					Mag. 5.3 (U. of U.).
	DUG	ePn		15 31 02.7			440	*5.3	
		ePg		15 31 15.5					
		eL		15 32 06.5					
	PCU	ePn		15 31 16.5			510		
		ePg		15 31 22.5					
		eL		15 32 01.8					
	SLC	ePn		15 31 18.2			570		
		ePg		15 31 32.8					
		eL		15 32 43.8					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Feb 26 (con't)	CCU	eP		17 43 32.6			223		"Yannigan" Cavity Collapse.
		ePg		17 43 45.0					
		eL		17 44 03.6					
	DUG	eP		17 44 06.9			440		
		eP		17 44 22.0					
		eL		17 45 10.2					
	PCU	ePn		17 44 22.4			512		
		ePg		17 44 31.9					
		eL		17 45 37.1					
27	PCU	eP		12 58 48.7			45		South of Sunnyside, Utah.
		ePg		12 58 53.2					
		eL		12 58 59.9					
28	PCU	eP		06 42 18.9			15		Probable rockburst, Castle Gate, Utah area.
		eR		06 42 26.7					
	DUG	eP		06 42 47.5					
	PCU	eP		07 27 04.2			15		Probable rockburst, Castle Gate, Utah area.
		ePg		07 27 09.7					
		eR		07 27 10.8					
	DUG	eP		07 27 33.5	0.5	1.1			
	PCU	eP		13 29 38.8			145		Local.
		ePg		13 29 45.6					
		eL		13 29 58.1					
	PCU	eP		15 57 57.3			145		Local.
		ePg		15 58 04.0					
		eL		15 58 16.6					
	PCU	eP		18 09 51.5			15		Probable rockburst, Castle Gate, Utah area.
		eR		18 09 56.1					
	DUG	eP		18 10 13.9					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Mar 1	SLC	eP		01 58 41.5			390		Southern Wyoming.
		ePg		01 59 04.2					
		eL		01 59 37.3					
	LOG	ePn		01 58 49.6			345		
		ePg		01 58 56.4					
		eL		01 59 37.5					
	DUG	eP		01 59 14.3	0.6	9.5	430		
		ePg		01 59 26.9					
		eL		02 00 17.3					
	PCU	eP		01 59 21.3			423		
		ePg		01 59 29.5					
		eL		02 00 09.6					
	DUG	eP*		21 59 32.4	0.6	11.9			Bingham blast.
2	PCU	eP		08 45 25.2			45		South of Sunnyside, Utah.
		ePg		08 45 33.4					
		eL		08 45 37.2					
	DUG	eP		20 21 04.2			145		Local.
		ePg		20 21 07.5					
		eL		20 21 24.9					
	DUG	eP*		22 00 16.0	0.6	11.1			Bingham blast.
	DUG	eP		22 57 59.1			220		Local.
		ePg		22 57 02.5					
		eL		22 58 27.0					
3	CCU	eP		22 44 14.6			80		Near Cedar City, Utah Mag. 2.2 (U. of U.).
		ePg		22 44 17.3					
		eL		22 44 23.5					
	DUG	eP		22 44 53.5				*2.2	
4	PCU	eP		08 35 50.7			45		South of Sunnyside, Utah.
		ePg		08 35 56.7					
		eL		08 36 02.7					
	PCU	eP		17 03 24.6			45		South of Sunnyside, Utah.
		eL		17 03 36.8					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Mar 5	PCU	eP		12 15 29.6			45		South of Sunnyside, Utah.
		ePg		12 15 36.8					
		eL		12 15 40.6					
6	PCU	eP		01 00 35.3			45		South of Sunnyside, Utah.
		ePg		01 00 42.9					
		eL		01 00 46.9					
	CCU	ePn		14 24 41.2			289		Nevada Test Site "Cyathus" 37.25 N, 116.12 W
		ePg		14 24 44.5					14 24 00.90 h = 0 km Mag. 4.6
		e(L)		14 25 19.5					(U. of U.).
	DUG	eP		14 25 02.4	0.4	1.1	445		
		ePg		14 25 14.0					
		eL		14 26 06.6					
	PCU	eP		14 25 16.9			520		
		ePg		14 25 28.4					
		eL		14 26 34.4					
	SLC	ePn		14 25 18.4			570		
		ePg		14 25 31.1					
		eL		14 26 43.1					
	CCU	eP		15 00 40.5			289		Nevada Test Site "Arabis" 37.24 N, 116.06 W
		ePg		15 00 45.5					15 00 00.20 h = 0 km Mag. 4.3
		eL		15 01 18.2					(U. of U.).
	DUG	ePn		15 01 02.6			445	*4.3	
		ePg		15 01 15.5					
		eL		15 02 06.6					
	SLC	eP		15 01 16.6			523		
		ePg		15 01 36.4					
		eL		15 02 32.9					
	PCU	ePn		15 01 16.9			545		
		ePg		15 01 32.1					
		eL		16 02 36.9					
	DUG	eP		18 42 08.5	0.6	10.3			Bingham blast.
	DUG	eP*		22 53 47.0	0.6	12.6			Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Mar 7	DUG	eP*		18 56 56.1	0.6	10.3			Bingham blast.
8	DUG	ePn		01 53 08.3	0.5	2.7	200		Local.
		ePg		01 53 12.1					
		eL		01 53 35.5					
	DUG	eP		02 50 58.2			200		Local.
		eL		02 51 25.5					
	PCU	eP		05 06 06.0			45		South of Sunnyside, Utah.
		ePg		05 06 13.8					
		eL		05 06 22.5					
	DUG	eP		05 06 35.2					
	DUG	ePn		22 49 37.5			278	*3.1	Green River Desert, Utah Mag. 3.1 (U. of U.).
		ePg		22 49 42.7					
		eL		22 50 13.5					
	CCU	ePg		22 49 43.1			312		
		eL		22 50 18.0					
9	DUG	eP		22 57 22.6			234		Local.
		eL		22 57 53.1					
10	PCU	eP		00 43 32.1			45		South of Sunnyside, Utah.
		ePg		00 43 35.5					
		eL		00 43 43.6					
	PCU	eP		03 41 43.1			45		South of Sunnyside, Utah.
		ePg		03 41 51.1					
		eL		03 41 54.9					
	DUG	eP		18 06 57.6			134		Local.
		eL		18 07 13.2					
	PCU	eP		20 31 43.2			45	*1.8	South of Sunnyside, Utah Mag. 1.8 (U. of U.).
		ePg		20 31 49.4					
		eL		20 31 54.2					
	DUG	eP*		21 56 33.9	0.6	13.4			Bingham blast.
11	DUG	ePn		17 19 25.8			267		Local.
		ePg		17 19 30.6					
		eL		17 20 00.1					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Mar 11 (con't)	SLC	ePg		23 45 33.0			78	*3.0	Promontory Mountains, Utah Mag. 3.0 (U. of U.).
		eL		23 45 40.7					
	DUG	ePg		23 45 50.1	0.7	7.1	140		
		eL		23 46 07.5					
12	DUG	eP		08 17 25.2			167		Local.
		ePg		08 17 27.1					
		eL		08 17 50.7					
	DUG	eP		13 14 38.9	1.0	6.3	944	4.5	Northern California 40.6 N, 123.9 W 13 12 34.9 h = 26 km Mag. 4.5.
	SLC	eP		14 06 50.3			33		Near Salt Lake City, Utah Mag. 1.7 (U. of U.)
		ePg		14 06 52.7					
		eL		14 06 56.0					
	DUG	eP		14 07 08.2				*1.7	
	SLC	eP		21 59 17.1			56		Near Salt Lake City, Utah Mag. 1.7 (U. of U.).
		ePg		21 59 19.2					
		eL		21 59 22.0					
	DUG	eP		21 59 34.9	0.5	1.8		*1.7	
13	PCU	eP		01 22 13.4			45		South of Sunnyside, Utah Mag. 1.6 (U. of U.)
		ePg		01 22 18.1					
		eL		01 22 24.4					
	DUG	eP		01 22 30.5				*1.6	
	LOG	eP		11 27 06.3			44		Near Randolph, Utah.
		ePg		11 27 07.8					
		eL		11 27 10.1					
	DUG	eP		11 27 29.4			200		
		eL		11 27 55.6					
	PCU	ePg		11 27 39.2			267		
		eL		11 28 09.8					
15	DUG	ePn		22 57 18.5			234		Local.
		ePg		22 57 23.4					
		eL		22 57 49.4					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Mar 16	PCU	eP		06 05 26.1			45		South of Sunnyside, Utah.
		ePg		06 05 33.3					
		eL		06 05 37.6					
	DUG	eP		06 06 04.9	0.7	3.2			
	PCU	eP		22 30 10.5			45		South of Sunnyside, Utah Mag. 3.1 (U. of U.).
		ePg		22 30 16.1					
		eL		22 30 18.5					
	DUG	eP		22 30 53.5				*3.1	
17	PCU	ePn		21 09 02.3			134		Near Fillmore, Utah Mag. 2.4 (U. of U.).
		ePg		21 09 11.3					
		eL		21 09 18.5					
	DUG	eP		21 09 17.9	0.6	2.4	145	*2.4	
		ePg		21 09 19.2					
		eL		21 09 35.6					
18	PCU	eP		05 21 15.6			45		South of Sunnyside, Utah.
		ePg		05 21 20.8					
		eL		05 21 27.2					
	PCU	eP		10 06 17.3			45		South of Sunnyside, Utah.
		ePg		10 06 25.5					
		eL		10 06 29.5					
	DUG	eP		10 06 48.9	0.5	3.6			
	DUG	eP		16 40 37.3			1778	3.1	Central California 36.3 N, 118.3 W 16 38 48.5 h = 10 km Mag. 3.1.
19	DUG	eP		12 23 38.5	0.6	3.2	189	2.7*	Northeastern Nevada Mag. 2.7 (U. of U.).
		ePg		12 23 42.2					
		eL		12 24 01.0					
	SLC	eP		12 23 38.9			223		
		ePg		12 23 45.1					
		eL		12 24 09.6					
	CCU	eP		12 23 43.7			450		
		ePg		12 24 17.5					
		eL		12 24 48.5					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Mar 19 (con't)	CCU	ePn		14 04 11.0			323		Nevada Test Site "Ja1" 37.08 N, 116.05 W
		ePg		14 04 17.0					14 03 30.00 h = 0 km Mag. 4.5
		eL		14 04 54.7					(U. of U.).
	DUG	ePn		14 04 37.5	0.8	3.4	445	*4.5	
		e		14 04 48.9					
	SLC	eP		14 04 50.0					
	CCU	ePn		16 29 46.8			456		Local.
		ePg		16 30 01.0					
		eL		16 30 52.5					
	DUG	eP		16 30 22.5					
	SLC	ePn		20 04 08.0			150		Local.
		ePg		20 04 24.5					
		eL		20 04 28.2					
	DUG	eP		20 04 41.5					
20	PCU	eP		00 52 34.7			45		South of Sunnyside, Utah.
		ePg		00 52 38.8					
		eL		00 52 45.8					
	DUG	iP	C	19 32 13.5	1.0	7.5	1256	4.7	Off Coast of Oregon 43.6 N, 127.3 W
									19 29 30.5 h = 33 km Mag. 4.7.
21	DUG	eP		02 43 19.8			1634	5.0	Gulf of California 25.6 N, 109.7 W
	SLC	e(P)		02 43 26.0					02 39 46.6 h = 33 km Mag. 5.0.
22	DUG	ePn		00 41 35.6	0.5	0.9	234	*2.2	Local Mag. 2.2 (U. of U.).
		ePg		00 41 41.2					
		eL		00 42 07.5					
	LOG	eP		11 33 31.9			100		*Near Hyrum, Utah 41.63 N, 111.81 W
		ePg		11 33 38.0					11 33 29.1 h = 20 km Mag. 2.9 (4 sta).
		eL		11 33 44.1					
	SLC	eP		11 33 46.4			111		
		ePg		11 33 56.0					
		eL		11 33 59.7					
	DUG	eP		11 33 55.1	0.5	0.9	140		
		eL		11 34 12.4					
	PCU	ePg		11 34 02.5			190		
		eL		11 34 29.0					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Mar 22 (con't)	DUG	eP		15 38 03.1			545		Yellowstone National Park, Wyoming 44.7 N, 110.4 W 15 36 50.7 h = 33 km.
	DUG	eP		18 09 38.0			545	3.4	Yellowstone National Park, Wyoming 44.9 N, 110.8 W 18 08 25.7 h = 33 km Mag. 3.4.
23	CCU	ePn		19 52 51.5			270		Southern Nevada 37.7 N, 115.99 W 19 52 10.76 h = 5 km Mag. 4.2. Felt at Hiko and Grim Lake.
		ePg		19 52 54.0					
		eL		19 53 27.3					
	DUG	ePn		19 53 07.6			478		
		ePg		19 53 16.5					
		eL		19 54 13.5					
	PCU	ePn		19 53 20.9			467		
		ePg		19 53 36.6					
		eL		19 54 29.4					
	SLC	ePg		19 53 35.1			545		
		eL		19 54 39.1					
	DUG	ePn		21 56 44.1			445	4.2	Nevada 39.6 N, 118.1 W 21 55 39.1 h = 5 km Mag. 4.2.
		ePg		21 57 00.1					
		eL		21 57 52.6					
	CCU	ePg		21 57 02.5			460		
		eL		21 57 57.7					
	CCU	ePn		23 05 40.9			290		Nevada Test Site "Shaper" 37.17 N, 116.05 W 23 03 00.00 h = 0 km Mag. 5.4 (U. of U.).
		e(Pg)		23 05 44.5					
		e(L)		23 06 09.3					
	DUG	eP		23 06 02.0			440	*5.4	
		ePg		23 06 14.2					
		eL		23 07 13.4					
	PCU	ePn		23 06 15.1			476		
		eL		23 07 24.1					
	SLC	ePn		23 06 17.6			512		
		ePg		23 06 32.2					
		eL		23 07 31.7					
	LOG	e(P)		23 06 28.6			615		
		e(L)		23 08 00.3					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Mar 24	DUG	eP		03 54 21.2	0.4	1.1	645	4.0	Central California 36.3 N, 118.2 W 03 52 33.7 h = 10 km Mag. 4.0.
	CCU	ePn		05 15 57.6			440		Nevada 39.6 N, 118.1 W 05 14 41.6
		ePg		05 16 04.5					h = 10 km Mag. 4.2.
		eL		05 17 00.5					
	DUG	ePn		05 15 45.6			534	4.2	
		ePg		05 16 01.9					
		eL		05 17 04.1					
	PCU	eP		08 30 57.2			45		South of Sunnyside, Utah.
		ePg		08 31 06.3					
		eL		08 31 10.0					
	PCU	ePn		14 13 47.3			312		Local.
		ePg		14 13 59.4					
		eL		14 14 29.2					
	DUG	eP		14 14 06.1					
	PCU	ePn		21 28 08.4			200		Local.
		ePg		21 28 21.9					
		eL		21 28 36.6					
25	PCU	ePn		11 01 38.4			145		Local.
		ePg		11 01 43.4					
		eL		11 01 57.7					
	CCU	eP		18 49 09.0			115		Local Mag. 2.8 (U. of U.).
		ePg		18 49 12.5					
		eL		18 49 22.8					
	DUG	ePn		18 49 23.4	0.5	3.2	245	*2.8	
		ePg		18 49 29.0					
		eL		18 49 57.5					
	SLC	eP		21 21 57.2			60		Near Salt Lake City, Utah Mag. 2.0 (U. of U.).
		ePg		21 21 59.1					
		eL		21 22 02.6					
	DUG	eP		21 22 14.4				*2.0	

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Mar 26	CCU	ePn		19 00 23.8			145		Nevada Test Site "Handley" 37.40 N, 116.55 W
		eLg		19 00 42.3					19 00 00.20 h = 0 km Mag. 6.4
	DUG	iP	C	19 01 03.9			455	*6.4	(U. of U.).
		ePg		19 01 17.0					
		eL		19 02 09.8					
	PCU	ePn		19 01 16.4			489		
		ePg		19 01 29.2					
		eL		19 02 27.9					
	SLC	ePn		19 01 17.4			520		
		ePg		19 01 35.4					
		eL		19 02 33.4					
27	CCU	ePg		00 14 27.3			320		Local.
		eL		00 15 03.2					
	DUG	eP		00 15 43.6			470		
		ePg		00 15 49.0					
		eL		00 16 44.1					
DUG		iP	C	05 16 01.4	0.6	7.9		5.2	Eastern Kazakh SSR 49.8 N, 78.0 E
									05 02 56.8 h = 0 km Mag. 5.2.
DUG		ePn		05 52 15.1			470	*4.2	Southern Nevada Mag. 4.2 (U. of U.).
		ePg		05 52 27.0					
		eL		05 53 22.1					
PCU		eP		05 52 45.4					
CCU		ePn		15 45 00.0			270		Southern Nevada.
		ePg		15 45 09.0					
		eL		15 45 36.5					
DUG		ePg		15 46 22.3			512	*3.8	
		eL		15 47 21.2					
DUG		eP		16 15 55.1			456	*3.5	Southern Nevada.
		ePg		16 16 10.1					
		eL		16 17 02.0					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Mar 27 (con't)	DUG	ePn		16 43 19.5			512	*3.8	Southern Nevada Mag. 3.8 (U. of U.).
		ePg		16 43 35.1					
		eL		16 44 35.1					
	PCU	ePn		16 43 35.9			523		
		ePg		16 43 57.0					
		eL		16 44 47.6					
	SLC	ePn		16 43 45.2			545		
		ePg		16 44 43.3					
		eL		16 45 05.1					
28	CCU	ePn		09 39 30.5			390		Nevada 38.9 N, 116.4 W 09 38 43.2
		ePg		09 39 35.0					h = 5 km Mag. 4.5 (CGS), 4.7 (U. of U.).
		eL		09 40 25.0					
	DUG	iPn	D	09 39 33.5	0.6	11.1	440	*4.7	
		ePg		09 39 47.0					
		eL		09 40 37.2					
	PCU	ePn		09 39 55.5			489		
		ePg		09 40 05.5					
		eL		09 41 06.5					
	SLC	ePn		09 39 56.0			445		
		ePg		09 40 02.3					
		eL		09 41 05.2					
	LOG	ePn		09 39 57.5			523		
		ePg		09 40 09.7					
		eL		09 41 14.3					
	DUG	eP		10 54 37.5			345		Nevada 38.9 N, 116.4 W 10 53 38.9
		ePg		10 54 43.0					h = 2 km.
		eL		10 55 17.9					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Mar 29	LOG	iP	D	12 41 08.3			157		*Northeastern Nevada 41.70 N, 114.20 W
		ePg		12 41 09.8					12 40 38.9 h = 20 km Mag. 4.4 (5 sta).
		eL		12 41 18.7					Felt in Grouse Creek and Rosetta area.
	DUG	iP	D	12 41 09.9			167	*4.4	
		eL		12 41 33.5					
	SLC	ePn		12 41 10.5			178		
		ePg		12 41 19.8					
		eL		12 41 33.5					
	PCU	ePn		12 41 30.0			334		
		ePg		12 41 35.7					
		eL		12 42 17.5					
	CCU	ePn		12 41 40.9			434		
		ePg		12 41 53.1					
		eL		12 42 52.2					
	SLC	eP		18 09 56.9			89		*Near Bingham Canyon, Utah 40.53 N, 112.18 W
		ePg		18 10 02.7					18 09 50.8 h = 0 km Mag. 2.0 (4 sta).
		eL		18 10 07.1					Possible blast.
	DUG	ePn		18 10 02.0			122	*2.0	
		ePg		18 10 03.1					
		eL		18 10 18.5					
	LOG	e(Pg)		18 10 14.3					
		e(L)		18 10 33.4					
	PCU	ePg		18 10 16.5			145		
		eL		18 10 35.4					
	PCU	eP		23 01 45.2			45		South of Sunnyside, Utah.
		ePg		23 01 51.2					
		eL		23 01 56.2					
30	PCU	eP		01 33 14.2			189		Local.
		ePg		01 33 30.2					
		eL		01 33 40.0					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Mag	Remarks
Mar 30 (con't)	CCU	eP		15 15 58.2			167		Southern Utah-Nevada Border Mag. 3.0 (U. of U.).
		eL		15 16 21.5					
	DUG	ePn		15 16 14.8			230	*3.0	
		ePg		15 16 18.0					
		eL		15 16 43.6					
	PCU	ePn		15 16 16.5			256		
		ePg		15 16 19.4					
		eL		15 16 45.3					
	SLC	eP		20 44 21.6			89		Near Salt Lake City, Utah.
		ePg		20 44 26.6					
		eL		20 44 31.6					
31	DUG	eP		07 04 21.1			833	4.2	Central California 36.9 N, 121.4 W 07 02 28.5 h = 10 km Mag. 4.2. Felt at San Francisco, Oakland, Walnut Creek and Hollister.
	DUG	eP*		21 58 11.8	0.6	10.3			Bingham blast.
	PCU	ePg		22 07 57.2			115		Local.
		eL		22 08 09.0					
	DUG	eP		22 07 51.2			160		
		eL		22 08 13.5					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Apr 1	PCU	eP		21 20 48.7			45			South of Sunnyside, Utah.
		ePg		21 20 52.5						
		eL		21 20 59.9						
	SLC	eP		21 55 03.6			60			South of Huntsville, Utah Mag. 2.1 (U. of U.
		ePg		21 55 08.8						
		eL		21 55 09.8						
	DUG	eP		21 55 24.9	0.8	4.3	140		*2.1	
		eL		21 55 42.0						
2	SLC	eP		21 29 01.0			54			South of Huntsville, Utah Mag. 1.5 (U. of U.
		ePg		21 29 02.7						
		eL		21 29 06.6						
	DUG	eP		21 29 18.3			145		*1.5	
		eL		21 29 36.9						
3	PCU	eP		05 22 39.8			150			Local.
		ePg		05 22 49.3						
		eL		05 22 59.3						
	DUG	eP		19 43 33.1			105		*1.6	North of Nephi, Utah Mag. 1.6 (U. of U.).
		eL		19 43 45.1						
	SLC	eP		19 43 35.4			111			
		eL		19 43 49.4						
	DUG	eP		22 00 09.0			134			Local.
		eL		22 00 24.8						
4	PCU	eP		02 29 11.0			45			South of Sunnyside, Utah.
		ePg		02 29 18.4						
		eL		02 29 22.6						
	DUG	eP		21 58 20.1	0.6	10.3				Bingham blast.
5	DUG	eP		03 40 38.0	0.6	0.8	122			Local.
		eL		03 40 52.7						
	PCU	eP		10 35 20.8			150			Local.
		ePg		10 35 30.5						
		eL		10 35 40.8						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Apr 5 (con't)	DUG	eP		16 49 04.5	0.6	1.6	122			Local.
		eL		16 49 18.3						
	PCU	eP		16 49 22.7						
	DUG	eP*		21 46 35.1	0.5	10.7				Bingham blast.
	DUG	ePn		22 50 25.2	0.5	0.9	229			Local.
		ePg		22 50 30.5						
		eL		22 50 55.0						
6	DUG	eP		05 49 53.5			189			Local.
		eL		05 50 27.7						
	DUG	eP		16 28 32.7	0.5	0.9	134			Local.
		eL		16 28 48.7						
	DUG	ePn		18 25 39.7			229			Local.
		ePg		18 25 44.9						
		eL		18 26 09.3						
	DUG	eP		21 39 20.0			289			Local.
		eL		21 39 59.3						
	DUG	eP		21 51 28.3	0.6	11.1				Bingham blast.
7	DUG	ePn		19 46 44.3	0.5	0.9	223			Local.
		ePg		19 46 49.0						
		eL		19 47 13.6						
	DUG	eP		19 51 24.7			284			Local.
		eL		19 52 02.3						
	DUG	eP		20 06 18.3			289			Local.
		eL		20 07 00.0						
	DUG	eP		21 56 36.6			267			Local.
		eL		21 57 11.3						
8	SLC	ePg		22 16 32.6			60			Near Salt Lake City, Utah.
		eSg		22 16 38.1						
9	DUG	eP		16 17 11.3			315			Local.
		eL		16 17 55.9						
	DUG	ePn		19 51 10.4			345			Local.
		ePg		19 51 15.4						
		eL		19 51 41.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Apr 9 (con't)	PCU	eP		20 30 23.0			220			Local.
		ePg		20 30 33.5						
		eL		20 30 52.8						
	DUG	eP		20 30 42.1	0.4	2.1				
	DUG	eP*		22 02 06.2	0.6	15.0				Bingham blast.
	DUG	eP		22 59 03.5			612			Regional.
		eL		23 01 32.0						
Apr 10	DUG	eP		17 16 15.0	0.6	1.6	128			Local.
		eL		17 16 28.5						
	PCU	eP		17 16 17.2			323			
		ePg		17 16 25.3						
		eL		17 17 01.9						
	DUG	ePn		20 47 56.0	0.6	0.8	273			Local.
		ePg		20 48 04.0						
		eL		20 48 32.3						
	DUG	ePn		21 37 19.7			289			Local.
		ePg		21 37 30.5						
		eL		21 37 58.3						
	PCU	eP		22 02 37.1			356			Local.
		eL		22 03 17.1						
	DUG	eP		22 03 05.1			396			
		eL		22 04 04.0						
	DUG	ePn		22 59 25.0			401			Local.
		ePg		22 59 51.5						
		eL		23 00 24.5						
	DUG	ePn		23 39 09.3			278			Local.
		ePg		23 39 22.0						
		eL		23 39 46.3						
11	DUG	ePn		00 16 21.0			289			Local.
		ePg		00 16 30.5						
		eL		00 16 57.9						
	PCU	eP		22 25 25.3			45			South of Sunnyside, Utah.
		ePg		22 25 31.1						
		eL		22 25 34.8						
	DUG	eP		23 28 33.0			412			Local.
		eL		23 29 32.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Apr 12	CCU	ePn		06 42 09.2			330			Southern Nevada 37.2 N, 116.6 W 06 41 23.5
		ePg		06 42 17.8						h = 13 km Mag. 3.2.
		eL		06 42 54.2						
	DUG	ePn		06 42 38.5	0.5	7.9	467		3.2	
		ePg		06 42 42.5						
		eL		06 43 35.3						
14	PCU	ePn		10 40 54.3			145			*Southeast of Helper, Utah 39.65 N, 110.73 W
		eL		10 41 13.6						10 40 53.5 h = 0 km Mag. 3.5 (5 sta).
	SLC	ePg		10 41 18.4			156			
		eL		10 41 39.6						
	DUG	eP		10 41 22.5					*3.5	
	LOG	ePn		10 41 31.9			256			
		ePg		10 41 37.7						
		eL		10 42 06.2						
	CCU	ePn		10 41 38.9			323			
		ePg		10 41 43.2						
		eL		10 42 23.4						
15	DUG	eP		00 33 24.9	0.6	11.1				Bingham blast.
	PCU	eP		20 49 15.2			140			Local.
		eP*		20 49 20.9						
		ePg		20 49 24.9						
		eL		20 49 33.1						
	PCU	eP		20 58 16.5			45			South of Sunnyside, Utah.
		ePg		20 58 22.6						
		eL		20 58 27.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Apr 18	CCU	ePn		10 42 29.5				140			*25 Km East of Bryce Canyon, Utah
		ePg		10 42 32.7							37.52 N, 111.82 W 10 42 11.6
		e(L)		10 42 47.5							h = 20 km Mag. 3.8 (5 sta).
	PCU	iPn	C	10 42 45.8				156			
		ePg		10 42 49.6							
		eL		10 43 08.8							
	DUG	ePn		10 42 52.5	0.5		3.6	285		*3.8	
		ePg		10 42 56.9							
		eL		10 43 30.0							
	SLC	ePg		10 43 05.2				378			
		eL		10 43 47.6							
	LOG	ePn		10 43 16.9				412			
		ePg		10 43 20.7							
		eL		10 44 16.4							
20	CCU	eP		13 27 57.5				111			Eastern Nevada Mag. 2.8 (U. of U.).
		ePg		13 27 59.0							
		eL		13 28 12.2							
	DUG	eP		13 28 36.1				312		*2.8	
		eL		13 29 19.5							
	DUG	eP		21 18 06.5							Southern Nevada 37.3 N, 116.6 W 21 16 48.6
											h = 4 km.
21	PCU	ePn		01 38 25.9				145			Near Hanksville, Utah Mag. 2.3 (U. of U.).
		ePg		01 38 29.0							
		eL		01 38 45.2							
	UBO	ePg		01 38 38.3	0.4		6.3	125	SW		
		e		01 38 47.6						2.8	
		eS		01 38 53.7							
		eSur		01 39 03.1							
	DUG	ePn		01 38 56.9				278		*2.3	
		ePg		01 39 00.0							
		eL		01 39 31.5							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Apr 21	UBO	eP		08 54 03.8							Colorado 40.1 N, 108.9 W 08 53 52.4
(con't)	PCU	ePn		08 54 20.0				170			h = 4 km Mag. 4.3 (CGS), 4.0 (U. of U.)
		ePg		08 54 24.9							Felt in Rangely. Rattled dishes, etc.
		eL		08 54 43.8							
	SLC	ePn		08 54 34.2				256			
		ePg		08 54 40.0							
		eL		08 55 07.0							
	LOG	ePn		08 54 40.5				267			
		ePg		08 54 48.0							
		eL		08 55 15.5							
	DUG	eP		08 54 42.4	0.5	3.6		312		*4.0	
		ePg		08 54 49.0							
		eL		08 55 32.6							
	CCU	eP		08 54 58.7				405			
		ePg		08 55 12.7							
		eL		08 55 56.5							
	DUG	ePn		14 31 02.6	0.4	6.4		445		*4.7	Nevada Test Site "Snubber"
		ePg		14 31 17.3							37.15 N, 116.00 W 14 30 00.00
		eL		14 32 08.1							h = 0 km Mag. 4.7 (U. of U.).
	PCU	ePn		14 31 15.8				523			
		ePg		14 31 24.9							
		eL		14 32 33.1							
	SLC	ePn		14 31 19.4				545			
		ePg		14 31 32.6							
		eL		14 32 36.4							
	CCU	ePn		14 31 39.7							
	DUG	ePn		15 01 02.9	0.4	9.5		445		*4.7	Nevada Test Site "Can" 37.20 N, 116.10 W
		ePg		15 01 17.1							15 00 00.00 h = 0 km Mag. 4.7 (U. of U.
		eL		15 02 09.0							
	SLC	ePn		15 01 18.9				454			
		ePg		15 01 34.2							
		eL		15 02 38.2							
	CCU	ePn		15 01 40.5							
	PCU	ePn		15 01 17.1				540			
		ePg		15 01 29.1							
		eL		15 02 36.0							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Apr 21	UBO	eP		15 05 59.0						Colorado 40.1 N, 108.9 W 15 05 47.5
(con't)	SLC	eP		15 06 29.0			212		4.6	h = 4 km Mag. 4.6.
		ePg		15 06 33.2						
		eL		15 06 59.2						
	DUG	eP		20 47 39.5			111			West of Nephi, Utah Mag. 2.5 (UBO).
		ePg		20 47 41.0						
		eL		20 47 55.5						
	UBO	eP		20 47 57.1	0.4	0.8	226	W	2.5	
		ePg		20 47 58.4	0.4	8.7				
		eLg		20 48 23.7						
23	DUG	eP		05 27 57.5						Northern California 40.3 N, 121.4 W 05 26 14.8 h = 10 km Mag. 3.6 (BRK). Felt at Mineral and Mill Creek.
24	PCU	eP		03 29 12.0			140			Local.
		ePg		03 29 22.0						
		eL		03 29 29.7						
	UBO	ePg		03 29 24.9	0.4	0.4	160			
		eS		03 29 42.4						
		eSg		03 29 45.4						
		eSur		03 29 49.7						
	PCU	eP		06 20 43.4			140			Local.
		ePg		06 20 50.0						
		eL		06 21 00.0						
	UBO	eP		06 20 55.5	0.3	0.8	167			
		eS		06 21 10.0						
		eSur		06 21 17.6						
	PCU	eP		15 24 17.2			33			Local.
		eL		15 24 20.0						
	UBO	eP		15 24 35.7	0.4	0.8	145			
		eSur		15 24 54.4						
	DUG	eP		18 46 13.6	0.6	12.6				Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Apr 24 (con't)	DUG	ePn		19 51 34.9	0.6	3.2	234		*2.9	Local Mag. 2.9 (U. of U.).
		ePg		19 51 40.9						
		eL		19 52 06.1						
	UBO	ePn		19 52 12.1	0.4	1.2	462			
		ePg		19 52 24.9	0.5	2.1				
		eLg		19 53 17.7						
	DUG	eP		21 53 51.2	0.6	13.4				Bingham blast.
25	PCU	eP		06 31 35.5			45			South of Sunnyside, Utah.
		eP*		06 31 40.8						
		ePg		06 31 45.0						
		eL		06 31 51.5						
	UBO	eP		06 31 47.2	0.4	0.4	160			
		e		06 31 51.5						
		eSur		06 32 08.2						
	PCU	eP		19 17 41.5			45			South of Sunnyside, Utah.
		ePg		19 17 48.0						
		eL		19 17 51.0						
	UBO	ePg		19 17 57.6	0.5	1.6	156			
		eSg		19 18 14.8						
		eLg		19 18 17.7						
26	PCU	eP		09 09 10.0			45			South of Sunnyside, Utah.
		ePg		09 09 14.5						
		eL		09 09 21.1						
	UBO	eP		09 09 32.1	0.4	0.4	170			
		ePg		09 09 34.5	0.4	2.7				
		eSg		09 09 55.8						
27	PCU	eP		07 24 08.8			45			South of Sunnyside, Utah.
		ePg		07 24 15.6						
		eL		07 24 19.8						
	DUG	eP		20 56 03.6	0.6	17.4				Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Apr 28	PCU	eP		12 17 21.3			45			South of Sunnyside, Utah.
		ePg		12 17 28.5						
		eL		12 17 32.5						
	UBO	eP		12 17 46.1	0.6	1.5	140			
		eSur		12 18 03.7						
	DUG	eP		20 51 52.6	0.6	12.6				Bingham blast.
	UBO	eP		21 01 27.8	0.4	0.6	210		2.4	Local Mag. 2.4 (UBO).
		eP*		21 01 30.6	0.3	1.4				
		ePg		21 01 31.3	0.4	3.0				
		eLg		21 01 54.9						
	DUG	eP		21 01 58.1	1.0	7.5				
29	DUG	ePn		01 23 53.9			200			Local.
		eLg		01 24 20.0						
	DUG	ePn		10 28 07.9			167			Local.
		eLg		10 28 30.0						
	UBO	eP		10 28 25.1	0.3	2.0	190			
		eLg		10 28 57.0						
30	PCU	eP		00 16 26.4			45			South of Sunnyside, Utah.
		ePg		00 16 30.9						
		eL		00 16 37.4						
	UBO	ePg		00 16 50.6	0.5	1.8	140			
		eLg		00 17 12.3						
	PCU	eP		14 05 57.6			170			Local.
		ePg		14 06 05.5						
		eL		14 06 21.5						
	UBO	ePg		14 06 17.4	0.3	2.6	223			
		eLg		14 06 42.1						
	DUG	eP		20 54 05.5	0.6	18.2				Bingham blast.
	DUG	eP		22 31 37.4			356			Local.
		eL		22 32 28.1						
May 1	DUG	eP		01 41 28.2			267			Local.
		eL		01 41 58.1						
	DUG	eP		10 19 05.9			470			Local.
		eL		10 20 01.1						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 1 (con't)	CCU	ePn		14 13 40.3			395			Nevada Test Site "Beebalm"
		ePg		14 13 51.0						37.15 N, 116.05 W 14 13 00.00 h = 0 km
		e(L)		14 14 36.5						Mag. 4.5 (U. of U.).
	DUG	ePn		14 14 03.0			445		*4.5	
		ePg		14 14 15.9						
		eL		14 15 07.1						
	PCU	eP		14 14 16.4			512			
		ePg		14 14 30.9						
		eL		14 15 31.4						
	SLC	eP		14 14 18.7			590			
		ePg		14 14 39.5						
		eL		14 15 43.5						
	CCU	ePn		14 40 41.0			312			Nevada Test Site "Hod" 37.25 N, 116.05 W
		ePg		14 40 48.0						14 40 00.00 h = 0 km Mag. 4.6 (U. of U.
		eL		14 41 22.5						
	DUG	ePn		14 41 02.3			430		*4.6	
		ePg		14 41 15.2						
	SLC	ePn		14 41 08.3			600			
		ePg		14 41 36.9						
		eL		14 42 37.6						
	PCU	ePn		14 41 16.8			489			
		ePg		14 41 30.6						
		eL		14 42 28.4						
	CCU	eP		14 49 36.7			335			Southern Nevada Mag. 2.8 (U. of U.).
		ePg		14 49 44.5						
		eL		14 50 24.0						
	DUG	eP		14 50 03.4			430		*2.8	
		ePg		14 50 14.4						
		eL		14 51 03.6						
	CCU	eP		14 56 32.5			323			Southern Nevada Mag. 2.5 (U. of U.).
		ePg		14 56 48.5						
		e(L)		14 57 10.3						
	DUG	eP		14 56 51.6			430		*2.5	
		eP		14 57 01.5						
		eL		14 57 51.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 1 (con't)	UBO	eP		16 55 36.6	0.3	0.4	380			Local.
		ePg		16 55 43.9	0.4	0.6				
		eLg		16 56 30.5						
	DUG	eP		16 56 01.3	0.4	1.1				
	DUG	ePn		18 45 16.7	0.4	1.3	256			Local.
		ePg		18 45 22.0						
		eL		18 45 51.0						
	CCU	eP		19 58 58.1			89			Southern Utah-Nevada Border.
		ePg		19 59 04.0						
		eL		19 59 08.5						
	DUG	eP		19 59 40.6						
2	PCU	eP		14 20 46.8			40			Near Price, Utah Mag. 2.2 (UBO).
		ePg		14 20 50.3						
		eL		14 20 53.8						
	UBO	eP		14 21 09.2	0.5	0.7	182		2.2	
		ePg		14 21 11.6	0.7	4.9				
		eSg		14 21 34.0						
		eSur		14 21 46.1						
	DUG	eP		14 21 09.5						
	PCU	eP		17 48 03.2			45		2.0	South of Sunnyside, Utah.
		ePg		17 48 07.5						
		eL		17 48 14.2						
	UBO	ePg		17 48 27.7	0.5	2.0	167	SW		
		eLg		17 48 50.0						
	DUG	eP		21 40 30.2			310			Local.
		eL		21 41 04.5						
4	DUG	ePn		01 54 53.0	0.4	1.1	450			Nevada.
		ePg		01 55 04.5						
		eL		01 55 58.6						
	CCU	eP		01 55 10.0			556			
		ePg		01 55 28.5						
		eL		01 56 30.7						
	DUG	ePn		03 39 24.5	0.4	1.1	450			Southern Nevada.
		ePg		03 39 37.5						
		eL		03 40 27.8						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 5	DUG	ePn		02 21 13.0			145			Local.
		eLg		02 21 32.0						
	DUG	ePn		13 26 33.0			340			Local.
		eLg		13 27 19.5						
	CCU	ePn		15 30 42.2			395			Nevada Test Site "Mint Leaf" 37.30 N, 116.2
		ePg		15 30 46.5						15 30 00.00 h = 0 km Mag. 5.1 (U. of U
		eL		15 31 38.4						
	DUG	ePn		15 31 02.7	0.7	159.0	445		*5.1	
		ePg		15 31 13.0						
		eLg		15 32 06.5						
	PCU	ePn		15 31 15.8			495			
		ePg		15 31 22.5						
		eL		15 32 28.2						
	SLC	ePn		15 31 17.4			560			
		ePg		15 31 33.4						
		eL		15 32 30.7						
	DUG	eP		19 06 23.9	0.5	1.8	300			Local.
		eLg		19 07 05.0						
	DUG	ePn		22 11 28.0	0.7	4.0	200			Local.
		eLg		22 11 54.0						
	DUG	ePn		22 39 53.9			423			Local.
		eLg		22 40 39.3						
6	DUG	ePn		00 10 06.0			396			Local.
		eLg		00 11 02.0						
	PCU	eP		04 35 18.8			45			South of Sunnyside, Utah.
		ePg		04 35 22.1						
		eL		04 35 29.8						
	UBO	eP		04 35 40.4	0.4	0.4				
		eL		04 36 04.4						
	DUG	ePn		09 54 57.9	0.6	1.6	340			Local.
		ePg		09 54 59.0						
		eLg		09 55 45.0		0.6				
	DUG	ePn		21 52 06.7	0.4	6.4	206			Local.
		eLg		21 52 33.0		0.1				

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 6 (con't)	DUG	ePn		22 27 51.0			267			Local.
		eLg		22 28 26.0						
	DUG	eP		23 34 25.6	0.6	2.4				Local Mag. 3.2 (UBO).
	UBO	eP		23 34 33.5	0.5	0.9	391		3.2	
		eL		23 35 22.2						
7	PCU	eP		02 07 27.7			45			South of Sunnyside, Utah.
		ePg		02 07 32.2						
		eL		02 07 38.7						
	UBO	eP		02 07 52.6			177	SW		
		eSg		02 08 14.5						
		eLg		02 08 22.0						
	DUG	eP		19 43 44.7			140			Near Ephraim, Utah.
		eL		19 44 02.5						
	SLC	eP		19 43 45.2			189			
		eL		19 44 11.3						
	UBO	eP		19 44 09.8			189	W		
		eL		19 44 36.3						
	DUG	eP		20 02 21.2			290			Local.
		eL		20 02 54.4						
	DUG	iP	D	21 06 18.2	0.6	15.8				Bingham blast.
8	DUG	ePn		05 48 17.3			390			Local.
		eLg		05 49 11.0						
	CCU	ePn		11 01 28.7			612			Regional.
		ePg		11 01 52.8						
		eL		11 03 08.2						
	DUG	ePn		11 01 43.7	0.7	4.7	678			
		ePg		11 02 11.0						
		eLg		11 03 34.0						
	PCU	eP		19 28 33.7			100			Near San Rafael Swell, Utah Mag. 2.7 (U. of U.).
		ePg		19 28 38.5						
		eL		19 28 45.0						
	UBO	ePn		19 28 47.3			185	SW		
		ePg		19 28 48.6						
		eLg		19 29 10.2						
	DUG	ePn		19 29 01.0	0.5	5.3	234		*2.7	
		eLg		19 29 31.7						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 8 (con't)	DUG	ePn		22 26 27.5				334			Local.
		eLg		22 27 14.0							
9	SLC	eP		13 54 49.7				44			Near Coalville, Utah.
		ePg		13 54 50.6							
		eL		13 54 54.6							
	DUG	eP		13 55 07.3	0.9	2.0					
	UBO	eP		13 55 21.2	0.3	0.8		178			
		eS		13 55 46.4							
	PCU	eP		17 33 52.0				45			Probable rockburst near Sunnyside, Utah Mag. 2.8 (UBO).
		ePg		17 33 54.7							
		eR		17 34 01.5							
	UBO	eP		17 34 03.8	0.5	5.3		155		2.8	
		eS		17 34 19.0							
		eSg		17 34 23.6							
		eSur		17 34 28.5							
	DUG	eP		17 34 22.7	0.8	2.6					
	DUG	eP		18 59 40.4	0.5	3.6					Near Teasdale, Utah.
	UBO	eP		18 59 59.9				281	SW		
		eL		19 00 31.1							
11	DUG	ePg		20 14 34.2				612			Regional.
		eL		20 15 46.0							
	DUG	eP*		20 53 19.1	0.6	14.2					Bingham blast.
12	PCU	eP		01 07 27.4				167			Near San Rafael Swell, Utah.
		ePg		01 07 40.6							
		eL		01 07 51.1							
	UBO	eP		01 07 39.7				189	SW		
		eSur		01 08 05.7							
	PCU	eP		06 42 25.9				45			South of Sunnyside, Utah.
		ePg		06 42 30.4							
		eL		06 42 37.3							
	UBO	eP		06 42 49.9				180			
		eL		06 43 12.1							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 12 (con't)	CCU	eP		15 45 22.2			100			Near Cedar City, Utah Mag. 3.6 (UBO).
		ePg		15 45 27.0						
		eL		15 45 33.3						
	UBO	eP		15 47 18.0			410		3.6	
		eP		15 47 25.1						
		eL		15 48 11.9						
	DUG	ePn		16 41 44.2			345			Local.
		ePg		16 41 51.2						
		eL		16 42 31.0						
	DUG	ePn		18 23 43.5	0.6	0.9	267			Local.
		ePg		18 23 47.6						
		eL		18 24 17.1						
13	PCU	eP		13 27 17.9			45			South of Sunnyside, Utah.
		ePg		13 27 23.8						
		eL		13 27 28.9						
	UBO	eP		13 27 29.9			174	SW		
		eLg		13 27 55.2						
	DUG	eP		13 27 47.3						
	PCU	eP		20 03 05.7			134			Local.
		ePg		20 03 08.7						
		eL		20 03 21.8						
	UBO	eP		20 03 20.9			220			
		ePg		20 03 22.2						
		eLg		20 03 46.6						
	DUG	ePn		20 04 03.0	0.6	1.6	145		*2.5	Local Mag. 2.5 (U. of U.).
		ePg		20 04 05.5						
		eL		20 04 22.3						
	CCU	eP		23 45 48.5			120			Southern Nevada
		eL		23 46 02.8						
	DUG	eP		23 46 30.9			367			
		eL		23 47 22.3						
	UBO	eP		23 47 00.0	0.4	0.8				
		eSur		23 48 00.1						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 14	DUG	eP		03 38 26.1	1.3	25.0	1167			Off Coast of Oregon 42.5 N, 126.4 W 03 35 54.3 h = 33 km Mag. 4.7.
	UBO	eP		05 44 27.9	0.2	0.9	55		1.5	Rangely, Colorado Mag. 1.5 (UBO).
		eS		05 44 35.9						
		eSur		05 44 38.4						
	PCU	ePg		17 04 38.7			150			Local Mag. 2.7 (UBO).
		eL		17 04 58.9						
	UBO	ePn		17 04 43.0	0.3	0.4	313		2.7	
		eP*		17 04 48.3	0.3	0.8				
		ePg		17 04 49.9	0.3	1.8				
		eLg		17 05 25.0						
	DUG	eP		17 05 02.8						
	DUG	eP		18 51 16.2			401			Nevada 41.0 N, 117.4 W 18 50 19.9 h = 5 km.
	DUG	eP		21 02 49.7	0.6	11.1				Bingham blast.
	PCU	eP		21 27 28.7			134			Green River Desert, Utah Mag. 2.9 (U. of U.).
		ePg		21 27 40.2						
		eL		21 28 44.7						
	UBO	eP		21 27 31.7	0.3	12.1	198			
		ePg		21 27 32.6	0.4	16.7				
		eSg		21 27 53.6						
		eLg		21 27 55.4						
	DUG	e(Pn)		21 27 41.4			312		*2.9	
		ePg		21 27 45.6						
		eL		21 28 21.2						
	CCU	eP		21 28 37.5						
		ePg		21 28 42.7						
		eL		21 28 51.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 15	CCU	ePn		13 30 40.3			295			Nevada Test Site "Cornice"
		ePg		13 30 44.0						37.25 N, 116.05 W 13 30 00.00
		eL		13 31 20.5						h = 0 km Mag. 5.2 (U. of U.).
	DUG	ePn		13 31 02.2	0.5	85.4	445		*5.2	
		ePg		13 31 14.9						
		eL		13 32 06.4		4.0				
	PCU	ePn		13 31 14.9			523			
		ePg		13 31 22.6						
		eL		13 32 31.6						
	SLC	ePn		13 31 16.5			590			
		ePg		13 31 30.7						
		eL		13 32 45.2						
	DUG	eP*		21 00 39.0	0.6	19.8				Bingham blast.
	UBO	eP		21 56 40.0	0.5	3.3	252	NE		Local.
		ePg		21 56 41.2	0.5	4.0				
		eLg		21 57 09.8						
	DUG	eP		21 56 57.6						
16	UBO	eP		02 16 04.8	0.2	2.5	226		3.3	Local Mag. 3.3 (UBO).
		eP*		02 16 05.6	0.3	4.0				
		ePg		02 16 06.5	0.3	9.5				
		eSg		02 16 29.4						
		eLg		02 16 31.8						
	PCU	ePg		02 16 20.7			267			
		eL		02 17 01.0						
	DUG	ePn		23 45 53.3	0.6	1.6	312			Local.
		eL		23 46 35.0						
	UBO	eP		23 45 56.9	0.4	0.6	289			
		ePg		23 46 04.5	0.6	2.8				
		eLg		23 46 35.8						
17	DUG	ePn		18 57 28.0	0.5	6.3	200			Local.
		ePg		18 57 34.0						
		eLg		18 57 54.1						
	UBO	ePg		18 58 04.2	0.4	0.6	560			
		eLg		18 59 09.9						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 17 (con't)	DUG	iP*	C	20 49 02.0	0.6	16.6				Bingham blast.
18	UBO	eP		19 17 01.2	0.4	14.3	178			Local.
		eSur		19 17 24.4						
	DUG	eP		19 17 10.7			270			
		eL		19 17 46.6						
19	UBO	eP		18 22 55.8	0.3	7.6	193		3.5	Local Mag. 3.5 (UBO).
		ePg		18 22 56.8	0.3	9.8				
		eSg		18 23 17.7						
		eLg		18 23 19.2						
	DUG	eP		18 23 07.0	0.4	1.1				
	DUG	eP		20 56 12.4			234			Local.
		eL		20 56 44.1						
	DUG	eP		21 00 12.6	0.6	12.6				Bingham blast.
20	DUG	ePn		05 20 37.0	1.0	2.5	777		3.0	Central California 36.6 N, 120.3 W
		ePg		05 21 06.9						05 18 48.5 h = 10 km Mag. 3.0 (CGS).
		eL		05 22 36.7						
	CCU	ePn		05 20 30.8			556			
		ePg		05 20 44.4						
		eL		05 21 52.3						
	DUG	eP		09 42 29.3						Local.
	UBO	eP		09 42 30.0	0.4	0.4	280			
		e		09 42 34.0	0.3	0.8				
		e(Pg)		09 42 38.2						
		eL		09 43 06.0						
	DUG	eP		13 54 22.9						Local.
	UBO	eP		13 54 25.5	0.4	0.6	246			
		eL		13 54 52.6						
	UBO	eP		20 01 59.4	0.3	9.9	195		3.6	Local Mag. 3.6 (UBO).
		ePg		20 02 00.2	0.4	16.1				
		eSg		20 02 21.3						
		eL		20 02 22.8						
	DUG	eP		20 02 09.7						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 21	LOG	eP		04 58 10.4				140			Southern Idaho Mag. 2.9 (UBO).
		ePg		04 58 17.4							
		eL		04 58 27.8							
	SLC	ePn		04 58 26.7				230			
		ePg		04 58 33.2							
		eL		04 58 58.3							
	PCU	ePn		04 58 41.3				280			
		ePg		04 58 51.3							
		eL		04 59 28.8							
	UBO	ePn		04 58 33.4	0.4		0.8	301		2.9	
		eP*		04 58 35.4	0.3		2.9				
		ePg		04 58 37.3	0.3		14.9				
		eL		04 59 11.4							
	DUG	ePn		04 58 34.6	0.5		2.7	323			
		ePg		04 58 43.1							
		eL		04 59 20.6							
	PCU	eP		11 16 27.0				140			*South of Sunnyside, Utah 39.44 N, 110.28 W
		ePg		11 16 34.4							11 16 21.4 h = 0 km Mag. 2.4 (6 sta)
		eL		11 16 44.0							
	UBO	eP		11 16 40.0	0.5		11.2	120		3.0	
		e		11 16 42.3	0.5		13.6				
		e		11 16 44.0							
		eSg		11 16 54.7							
		eS		11 17 01.1							
		eSur		11 17 04.2							
	SLC	ePg		11 16 51.7				190			
		eL		11 17 18.4							
	DUG	ePg		11 16 59.3				278		*2.4	
		eL		11 17 31.2							
	LOG	ePn		11 17 05.6				256			
		ePg		11 17 12.3							
		eL		11 17 39.1							
	CCU	ePn		11 17 07.2				289			
		ePg		11 17 11.0							
		eL		11 17 46.2							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 21 (con't)	CCU	ePn		14 00 40.5				290			Nevada Test Site "Manzanas"
		ePg		14 00 49.0							37.10 N, 116.00 W 14 00 00.00
		eL		14 01 20.5							h = 0 km Mag. 3.2 (U. of U.).
	DUG	ePn		14 01 04.4	0.5		0.9	445		*3.2	
		ePg		14 01 18.1							
		eL		14 02 07.3							
	PCU	eP		14 01 11.9				578			
		ePg		14 01 31.4							
		eL		14 02 28.1							
	CCU	ePn		14 15 39.7				334			Nevada Test Site "Morrones"
		eL		14 16 25.5							37.15 N, 116.02 W 14 15 00.00
	SLC	ePn		14 16 19.0				578		*5.0	h = 0 km Mag. 5.0 (U. of U.).
		ePg		14 16 33.5							
		eL		14 17 45.2							
	CCU	ePg		14 29 15.5				370			Southern Nevada.
		eL		14 29 57.0							
	DUG	eP		14 29 42.1				489			
		eL		14 30 39.1							
	DUG	eP*		20 59 57.1	0.6		11.1				Bingham blast.
22	PCU	eP		06 15 00.9				45			South of Sunnyside, Utah.
		ePg		06 15 05.2							
		eL		06 15 11.7							
	UBO	ePn		06 15 22.3	0.4		0.2				
	DUG	ePn		15 49 31.5				390			Local.
		eL		15 50 27.1							
	PCU	ePn		19 20 25.6				170			San Rafael Reef Area, Utah Mag. 2.6 (U. of U.
		ePg		19 20 37.5							
		eL		19 20 49.2							
	UBO	ePg		19 20 52.1	0.3		23.6	195			
		eLg		19 21 15.5							
	DUG	ePn		19 21 02.9	0.5		1.8	245		*2.6	
		eL		19 21 36.3							
	DUG	iP*	C	20 54 40.9	0.5		16.9				Bingham blast.
	DUG	ePn		21 58 45.0				334			Local.
		eLg		21 59 31.3							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 22 (con't)	DUG	ePn		22 32 42.2			356			Local.
		eLg		22 33 31.1						
	DUG	ePn		22 48 10.5			145			Local.
		eLg		22 48 30.3						
23	UBO	eP		07 54 14.0	0.4	0.4	205			Local.
		ePg		07 54 15.5	0.5	0.6				
		eL		07 54 41.0						
	DUG	eP		07 54 39.1			434			
		eL		07 55 41.2						
	UBO	ePn		08 56 06.2	0.3	5.4	380		4.2	Colorado 39.9 N, 105.1 W 08 55 09.4
		eP*		08 56 13.4	0.3	11.9				h = 5 km Mag. 4.1 (NOS), 4.2 (UBO).
		ePg		08 56 16.4	0.4	21.4				Felt in Denver, Colorado.
		eSn		08 56 46.4						
		eSg		08 56 56.5						
		eLg		08 56 58.7						
	PCU	ePn		08 56 19.9			434			
		ePg		08 56 29.9						
		eL		08 57 23.3						
	DUG	eP		08 56 39.1			667		4.1	
	CCU	ePg		22 55 35.2			67			*South of Beaver, Utah 38.21 N, 112.68 W
		eSg		22 55 43.0						22 55 24.0 h = 0 km Mag. 3.8 (5 sta).
	DUG	eP		22 55 58.9	0.6	15.8	278		*3.8	
		ePg		22 55 02.9						
		eL		22 56 33.9						
	PCU	ePn		22 55 59.0			300			
		ePg		22 56 04.8						
		eL		22 56 30.5						
	SLC	eP		22 56 06.0			330			
		ePg		22 56 14.1						
		eL		22 56 51.2						
	UBO	ePn		22 56 15.7	0.6	9.5	327			
		eP*		22 56 19.3						
		ePg		22 56 22.0						
		eSg		22 56 56.8						
		eLg		22 56 59.4						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 23 (con't)	CCU	eP		23 01 20.4				80			Local.
		eL		23 01 29.2							
	DUG	ePn		23 01 50.0				151			
		eL		23 02 11.0							
	SLC	ePg		23 01 35.7				200			
		eL		23 02 23.8							
	UBO	eP		23 01 03.3	0.5	1.5					
		eLg		23 02 44.7							
	DUG	eP		23 59 35.7				145			Local.
		ePg		23 59 45.0							
		eL		23 59 54.3							
24	CCU	eP		23 59 37.0				79			Utah 38.04 N, 112.38 W 23 59 24.49
		ePg		23 59 45.5							h = 6 km Mag. 2.7 (U. of U.).
		eL		23 59 57.5							
	PCU	ePn		00 00 00.0				150			
		ePg		00 00 07.0							
		eL		00 00 25.4							
	DUG	ePn		00 00 00.5	0.4	5.3		245		*2.7	
		ePg		00 00 06.5							
		eL		00 00 34.5							
	UBO	ePn		00 00 17.2	0.5	0.9		315		2.9	
		eP*		00 00 20.7	0.5	4.3					
		ePg		00 00 24.8	0.6	21.4					
		eLg		00 01 00.3							
	DUG	ePn		01 18 57.5				229			South of Beaver, Utah.
		eLg		01 19 28.3							
	UBO	ePg		01 19 17.5	0.5	1.5		349			
		eLg		01 19 57.2							
	CCU	ePn		01 54 42.6				145			*North of Paragonah, Utah 37.99 N, 112.75 W
		ePg		01 54 52.5							01 54 35. 6 h = 20 km Mag. 2.2 (4 sta)
		eL		01 55 01.5							
	PCU	eP		01 55 08.5				156			
		eL		01 55 29.5							
	UBO	eP		01 55 30.6	0.5	1.7					
		eLg		01 56 09.8							
	DUG	eP		01 55 10.9				234		*2.2	
		eL		01 55 41.5							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 24 (con't)	CCU	eP		01 56 18.8				60			*Near Beaver, Utah 38.19 N, 112.69 W
		ePg		01 56 23.6							01 56 08.4 h = 20 km Mag. 2.5 (4 sta).
		eL		01 56 41.0							
	DUG	ePn		01 56 40.7				234		*2.5	
		eL		01 57 14.7							
	PCU	eP		01 56 42.0				223			
		eL		01 57 07.0							
	UBO	ePn		01 56 57.8	0.5	0.9		327		2.9	
		e		01 57 02.2	0.5	2.6					
		eP*		01 57 04.7	0.5	5.4					
		ePg		01 57 05.9	0.5	9.0					
		eLg		01 57 43.3							
	CCU	ePn		02 10 05.3				160			*West of Orton Junction, Utah 37.93 N, 112.44 W
		ePg		02 10 14.3							02 09 55.2 h = 20 km Mag. 2.9 (UBO)
		eL		02 10 27.5							(4 sta).
	PCU	ePg		02 10 29.0				223			
		eL		02 10 54.5							
	DUG	eP		02 10 31.5	0.9	4.0		245			
		eL		02 11 11.5							
	UBO	eP		02 10 45.9	0.5	1.1		318		2.9	
		e		02 10 48.9	0.5	3.7					
		eP*		02 10 51.8	0.7	8.8					
		ePg		02 10 53.1	0.6	13.5					
		eLg		02 11 29.3							
25	UBO	eP		15 35 45.4	0.4	1.0		250		2.7	Local Mag. 2.7 (UBO).
		ePg		15 35 53.1	0.4	2.7					
		eLg		15 36 12.7							
	DUG	eP		15 35 50.2	0.7	2.4					
	DUG	eP		15 47 05.3	0.7	4.0		140		*3.0	Local Mag. 3.0 (U. of U.).
		eL		15 47 22.4							
	UBO	eP		15 47 09.5	0.3	4.4		150		3.0	
		e		15 47 12.8	0.4	9.7					
		eLg		15 47 27.4							
	DUG	eP		16 44 28.5				105		*1.5	Local Mag. 1.5 (U. of U.).
		eL		16 44 40.5							
	UBO	eP		16 44 52.9	0.4	1.6					

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 25 (con't)	UBO	eP		20 35 25.4	0.5	1.3	445			Local.
		eLg		20 36 29.4						
	DUG	eP		20 35 38.1			367			
		eL		20 36 22.4						
	DUG	eP		20 52 52.2	0.6	19.0				Bingham blast.
26	CCU	ePn		14 16 42.0			330			Nevada Test Site "Hudson Moon"
		ePg		14 16 45.9						37.16 N, 116.21 W 14 16 00.20
		eL		14 17 27.0						h = 0 km Mag. 3.7 (U. of U.).
	DUG	ePn		14 17 03.1			440		*3.7	
		ePg		14 17 17.9						
		eL		14 18 08.0						
	PCU	ePn		14 17 17.4			502			
		ePg		14 17 24.2						
		eL		14 18 30.8						
	SLC	ePn		14 17 19.1			534			
		ePg		14 17 36.8						
		eL		14 18 37.3						
	CCU	ePn		15 00 45.0			287			Nevada Test Site "Flask"
		ePg		15 00 47.2						37.11 N, 116.11 W 15 00 00.00
		eL		15 01 24.3						h = 0 km Mag. 5.6 (U. of U.).
	DUG	ePn		15 01 02.7			440		*5.6	
		ePg		15 01 15.7						
		eL		15 02 05.8						
	PCU	ePn		15 01 16.9			467			
		ePg		15 01 17.5						
		eL		15 02 24.5						
	SLC	ePn		15 01 17.9			512			
		ePg		15 01 32.3						
		eL		15 02 32.9						
	DUG	eP		22 12 32.1			833		3.5	Central California 37.8 N, 121.9 W
										22 10 24.2 h = 2 km Mag. 3.5
										Felt at Danville.
	DUG	eP		23 36 24.1			390			Local.
		eL		23 37 19.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 26 (con't)	DUG	ePn		23 35 33.5	0.9	4.0	833		4.5	Central California 37.8 N, 121.9 W
		eLg		23 37 37.9						23 33 40.0 h = 3 km Mag. 4.5.
										Felt at Danville, Walnut, and Berkeley.
27	DUG	ePn		10 44 13.9	0.9	3.0	844		4.2	Central California 36.0 N, 120.9 W
		eLg		10 46 15.0						10 42 19.3 h = 4.2.
	DUG	eP		18 46 02.3	0.5	2.4	49			Local.
		eLg		18 46 08.5						
	DUG	ePn		22 26 21.7	0.7	2.4	300			Local.
		eLg		22 27 02.5						
28	DUG	ePn		12 01 02.5	0.5	8.0	434		4.2	Southern Nevada 37.2 N, 116.0 W
		ePg		12 01 15.0						12 00 03.3 h = 33 km Mag. 4.2.
		eLg		12 01 53.7						
	SLC	ePn		12 01 30.9						
		ePg		12 01 42.2						
		eL		12 02 33.2						
	DUG	ePn		12 22 28.9			396			Local.
		eLg		12 23 24.9						
	UBO	iP	C	16 42 02.0	0.2	27.3	55		3.0	Rangely, Colorado Mag. 3.0 (UBO).
		e		16 42 05.5	0.5	32.2				
		eS		16 42 09.9						
		eSur		16 42 12.6						
	PCU	ePg		16 42 21.8			150			
		eL		16 42 42.3						
	DUG	ePn		17 47 14.5			323			Local.
		eLg		17 47 59.0						
	UBO	eP		17 47 39.2	0.4	1.3				
		eSur		17 48 36.8						
	DUG	ePn		17 55 12.1			278			Local.
		eLg		17 55 49.0						
	UBO	eP		18 00 10.7	0.4	2.5	254			Local.
		ePg		18 00 11.6	0.4	3.6				
		eLg		18 00 40.4						
	DUG	ePn		18 00 29.5			450			
		eLg		18 01 35.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 28 (con't)	DUG	iP*	C	20 55 45.7	0.5	17.8				Bingham blast.
29	DUG	ePn		02 55 05.5			833		4.2	Central California 37.8 N, 121.9 W
		eL		02 57 06.0						02 53 08.2 h = 9 km Mag. 4.2.
										Felt at Danville.
	DUG	ePn		02 57 55.9	1.0	3.8	833		4.3	Central California 37.8 N, 121.9 W
		eLg		02 59 50.0						02 55 49.5 h = 8 km Mag. 4.3.
										Felt at Walnut Creek, Danvile and Castro.
	UBO	ePn		18 47 49.3	0.4	0.4	378			Local.
		ePg		18 47 56.8	0.4	1.3				
		eSur		18 48 43.8						
	DUG	ePn		18 48 23.3			423			
		eLg		18 49 23.3						
	DUG	eP*		20 45 52.5	0.5	15.1				Bingham blast.
	DUG	ePn		21 59 49.5			229			Local.
		eLg		21 00 20.0						
	DUG	ePn		22 30 52.0			278			Local.
		eLg		22 31 29.0						
	DUG	ePn		22 36 39.5			312			Local.
		eLg		22 37 22.7						
30	PCU	eP		12 08 35.3			45			South of Sunnyside, Utah.
		ePg		12 08 42.5						
		eL		12 08 47.8						
	UBO	ePg		12 09 00.6	0.6	1.3	192			
		eL		12 09 22.9						
	PCU	eP		14 25 13.8			45			South of Sunnyside, Utah Mag. 2.2 (UBO).
		ePg		14 25 16.5						
		eL		14 25 23.9						
	UBO	eP		14 25 33.6	0.3	0.4	182		2.2	
		ePg		14 25 35.1	0.5	1.1				
		eL		14 25 57.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
May 31	DUG	ePn		12 00 09.0	0.7	4.5	167			Local.
		eLg		12 00 31.5		19.5				
	UBO	eP		12 00 24.9	0.5	3.2		SW		
		ePg		12 00 25.8	0.5	4.5				
		eL		12 00 57.5						
	DUG	iP	D	20 33 21.0						Peru. Estimated 50,000 killed, 800,000 homeless, $230 million damage.
June 1	LOG	ePg		03 23 57.3			140			*Eastern Idaho 44.23 N, 111.62 W 03 23 17.6 h = 20 km Mag. 3.3 (5 sta).
		eL		03 24 14.7						
	SLC	ePg		03 24 12.8			289			
		eL		03 24 44.9						
	DUG	ePn		03 24 20.3	0.7	3.2	323		*3.3	
		eLg		03 25 05.3						
	UBO	eP		03 24 22.3	0.4	0.8				
		ePg		03 24 26.2						
		eSur		03 25 05.0						
	PCU	ePn		03 24 27.2			367			
		eP*		03 24 43.8						
		ePg		03 25 07.6						
		eL		03 25 17.8						
	UBO	eP		13 23 00.3						Local.
		eSur		13 23 26.0						
	PCU	eP		13 23 47.8			130			
		ePg		13 23 56.3						
		eL		13 24 05.1						
	UBO	eP		20 08 20.5						Local.
		eSur		20 08 44.6						
	DUG	ePn		20 08 30.7			256			
		eLg		20 09 04.5						
	DUG	eP*		21 00 33.3	0.6	10.7				Bingham blast.
2	DUG	eP		20 54 16.6	0.6	14.2				Bingham blast.
3	DUG	eP*		20 53 08.9	0.6	17.4				Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
June 3 (con't)	UBO	eP		22 01 28.5	0.4	2.8	250		3.2	Local Mag. 3.2 (UBO).
		ePg		22 01 29.8						
		eL		22 01 57.7						
	DUG	eP		22 01 48.5						
		eL		22 02 51.5						
4	DUG	eP		04 44 12.3			54			Local.
		eLg		04 44 19.9						
	PCU	eP		05 44 58.0			45			South of Sunnyside, Utah.
		ePg		05 45 03.3						
		eL		05 45 09.9						
	UBO	ePg		05 45 23.3			175			
		eL		05 45 45.0						
	PCU	eP		06 04 56.3			45			South of Sunnyside, Utah.
		ePg		06 04 03.3						
		eL		06 05 07.5						
	UBO	ePg		06 05 20.3			174			
		eL		06 05 41.9						
	DUG	eP		17 29 41.7	0.5	4.5	55			Local.
		eLg		17 29 49.5						
	DUG	ePn		19 12 34.7			267			Local Mag. 2.9 (UBO).
		eLg		19 13 00.0						
	UBO	eP		19 12 45.5	0.2	0.9	238		2.9	
		eP*		19 12 46.7	0.3	1.8				
		ePg		19 12 47.7	0.3	4.4				
		eL		19 13 13.8						
	DUG	iP*	D	20 54 37.9	0.5	23.7				Bingham blast.
5	PCU	ePg		02 05 20.6			120			Near Gunnison, Colorado Mag. 2.5 (UBO).
		eL		02 05 34.1						
	DUG	eP		02 05 22.5	0.7	4.7	134			
		eL		02 05 38.1						
	UBO	eP		02 05 41.7	0.3	0.6	229		2.5	
		ePg		02 05 42.4	0.5	3.5				
		eL		02 06 08.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
June 5 (con't)	DUG	eP		07 24 44.6			145		*2.2	Near Fillmore, Utah Mag. 2.2 (U. of U.).
		eL		07 25 03.5						
	UBO	eP		07 25 02.7	0.3	0.4	293		2.6	
		ePg		07 25 05.2						
		eL		07 25 37.8						
	DUG	eP*		21 05 35.7	0.6	13.4				Bingham blast.
6	CCU	ePg		10 18 26.3			111			Near Cedar City, Utah.
		eL		10 18 39.3						
7	DUG	ePn		23 26 24.9	0.5	1.8	200			Local.
		ePg		23 26 27.7						
		eLg		23 26 51.0						
	CCU	ePg		23 26 33.0			250			
		eL		23 27 00.5						
8	UBO	eP		16 39 13.0	0.4	3.6	212			Local.
		eS		16 39 36.6						
	DUG	ePn		16 39 22.0			272			
		eLg		16 39 57.9						
	PCU	ePn		22 16 09.0			150			Local.
		ePg		22 16 15.5						
		eL		22 16 29.3						
	PCU	eP		22 50 58.1			45			South of Sunnyside, Utah.
		ePg		22 51 01.8						
		eL		22 51 08.5						
	UBO	ePg		22 51 22.3			170			
		eLg		22 51 42.6						
9	DUG	eP		06 06 12.6	0.6	2.4	111			Local.
		eL		06 06 25.6						
	PCU	eP		11 14 04.4			45			South of Sunnyside, Utah.
		ePg		11 14 10.8						
		eL		11 14 15.4						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
June 10	DUG	ePn		19 07 04.9			523			Regional.
		eLg		19 08 21.9						
	DUG	iP*	C	22 49 36.7	0.5	16.9				Bingham blast.
	11 DUG	ePn		22 02 34.3			212			Local Mag. 2.7 (UBO).
		eLg		22 03 01.7						
	UBO	eP		22 02 53.4	0.4	0.4	348		2.7	
		ePg		22 02 55.8	0.5	1.3				
		eLg		22 03 35.1						
	DUG	ePn		23 34 48.0			830		3.4	Central California 37.78 N, 121.88 W
		eLg		23 36 49.7						23 32 56.1 h = 7 km Mag. 3.4 (BRK).
										Felt in Danville area.
	DUG	ePg		23 42 07.3			701			Regional.
		eLg		23 43 47.5						
	12 DUG	ePn		00 41 06.1			828		3.3	Central California 37.9 N, 121.9 W
		eLg		00 43 24.0						00 39 24.5 h = 11 km Mag. 3.3 (BRK).
	UBO	eP		01 16 26.2	0.3	0.4	356	NE		Local.
		e		01 16 36.2	0.3	2.3				
		eS		01 16 59.2						
		eLg		01 17 07.5						
	DUG	ePg		01 16 52.9			478			
				01 17 48.0						
	CCU	ePn		03 31 50.2			750			Central California 37.78 N, 121.97 W
		ePg		03 32 20.3						03 30 04.3 h = 2 km Mag. 4.6.
		eL		03 33 44.5						Minor damage at Danville. Felt in
	DUG	ePn		03 31 57.0	0.9	3.0	832		4.6	San Francisco Bay area. (Max. Int. V1).
		ePg		03 32 27.9						
		eLg		03 34 09.5						
	UBO	eP		03 32 11.5	0.2	0.3	1000			
		ePg		03 32 19.6	0.3	1.0				
		eL		03 33 54.7						
	DUG	ePn		16 05 33.9			832		4.2	Central California 37.7 N, 122.0 W
		eLg		16 07 36.3						16 03 32.1 h = 2 km.
										Minor damage at Danville. Felt in
										San Francisco Bay area. Mag. 4.2 (BRK).

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
June 13	DUG	ePn		08 56 45.9			673			Regional.
		eLg		08 58 30.0						
	DUG	iP*	D	20 59 33.5	0.5	19.6				Bingham blast.
	14 DUG	eP*		21 42 20.0			267			Local Mag. 3.8 (UBO).
		eP		21 42 25.1						
		eL		21 42 55.1						
	UBO	ePg		21 42 57.4	0.4	1.0	575		3.8	
		eLg		21 44 05.1						
	15 DUG	eP*		20 59 33.0	0.6	14.2				Bingham blast.
	DUG	eP		21 24 01.8	0.6	6.3	267			Local.
		ePg		21 24 08.1						
		eL		21 24 38.2						
	UBO	eP		21 24 33.6	0.5	1.1				
		eSur		21 25 02.0						
	DUG	eP		21 29 50.1			122			Near Scipio, Utah Mag. 2.5 (UBO).
		eL		21 30 05.0						
	UBO	eP		21 29 54.4	0.3	0.6	238		2.5	
		ePg		21 29 55.9	0.4	1.0				
		eL		21 30 22.3						
	16 DUG	eP		08 18 31.0			167			Near Richfield, Utah Mag. 2.8 (UBO).
		eL		08 18 54.0						
	UBO	eP		08 18 45.3	0.4	1.0	279		2.8	
		ePg		08 18 46.9	0.5	1.5				
		eL		08 19 18.1						
	DUG	eP		16 23 23.7			223			Local.
		ePg		16 23 29.3						
		eL		16 23 55.0						
	17 DUG	eP		12 31 48.5	0.4	10.6	45			Local.
		eLg		12 31 54.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
June 17 (con't)	CCU	eP		21 29 49.6			80			Near Cedar City, Utah.
		ePg		21 29 54.5						
		eL		21 29 58.3						
	DUG	ePn		21 30 28.7			272			
		eLg		21 31 05.0						
	DUG	ePn		21 41 22.5			156			Near Mount Pleasant, Utah Mag. 2.5 (UBO).
		eLg		21 41 41.0						
	UBO	eP		21 41 29.5	0.2	0.6	175		2.5	
		ePg		21 41 31.3	0.3	2.0				
		eLg		21 41 52.0						
	DUG	eP*		21 45 20.9	0.5	16.0				Bingham blast.
	DUG	eP*		21 47 34.0	0.5	17.8				Bingham blast.
	DUG	eP*		21 49 02.3	0.5	12.5				Bingham blast.
18	UBO	eP		15 58 39.1	0.5	0.9	475		3.4	Yellowstone Park, Wyoming area Mag. 3.4 (UBO)
		ePg		15 58 46.1	0.6	1.3				
		e		15 59 41.7						
	DUG	eP		15 58 40.8						
	DUG	eP		19 32 15.2	0.5	8.0	140		*2.5	Near Gunnison, Utah Mag. 2.5 (U. of U.).
		eL		19 32 33.0						
	UBO	eP		19 32 47.8	0.4	0.6	233			
		ePg		19 32 51.7	0.6	1.5				
		eLg		19 33 17.6						
	DUG	eP*		21 52 42.9	0.6	15.8				Bingham blast.
19	DUG	eP		20 59 58.2	0.6	11.9				Bingham blast.
	DUG	ePn		23 57 29.9			318			Local.
		eLg		23 58 02.9						
20	UBO	eP		10 29 45.5	0.4	0.6	130	SW	1.9	Local Mag. 1.9 (UBO).
		e		10 29 49.7						
		e		10 29 57.7						
		eSg		10 30 00.2						
		eSur		10 30 07.1						
	DUG	ePn		10 30 02.0			212			
		eLg		10 30 30.3						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
June 20 (con't)	UBO	ePg		17 08 22.3	0.4	1.2	160	SW		San Rafael Swell, Utah.
		eS		17 08 37.5						
		eSg		17 08 41.9						
		eSur		17 08 44.6						
	DUG	ePn		17 08 34.9			261			
		eLg		17 09 10.5						
	DUG	ePn		17 17 48.5	0.4	6.4	184		*2.8	Utah-Idaho Border near Lewiston, Idaho
		ePg		17 17 53.9						Mag. 2.8 (U. of U.).
		eLg		17 18 12.9						
	UBO	eP		17 18 04.5	0.3	1.0	297	WNW	3.1	
		ePg		17 18 07.8	0.4	8.3				
		eSg		17 18 38.1						
		eLg		17 18 41.3						
	DUG	ePn		17 20 18.0	0.7	14.2	189		*3.2	Utah-Idaho Border near Lewiston, Idaho
		ePg		17 20 23.1						Mag. 3.2 (U. of U.).
		eLg		17 20 42.9						
	UBO	eP		17 20 33.8	0.3	1.0			3.1	
		eP*		17 20 35.5	0.3	3.0				
		ePg		17 20 37.3	0.4	19.0				
		eSg		17 21 06.6						
		eLg		17 21 11.5						
	DUG	eP*		17 46 07.7	0.5	16.0				Bingham blast.
	DUG	iP*	C	20 58 16.3	0.5	17.8				Bingham blast.
	DUG	ePn		22 04 57.9	0.5	1.8	206			Local.
		eLg		22 05 25.0						
	UBO	eP		22 05 33.9	0.3	0.6	456			
		eLg		22 06 40.3						
	DUG	ePn		23 01 52.3	0.5	2.7	229			Local.
		eLg		23 02 22.0						
21	DUG	eP*		20 57 09.0	0.5	12.5				Bingham blast.
22	DUG	eP*		21 01 35.6	0.6	14.2				Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
June 23	DUG	eP		19 48 02.5	0.4	4.2	125			Near Ephraim, Utah Mag. 2.4 (UBO).
		eL		19 48 17.8						
	UBO	eP		19 48 20.6	0.4	0.6	229	W	2.4	
		ePg		19 48 45.8						
		eLg		19 48 47.4						
	DUG	eP*		21 04 41.1	0.6	15.8				Bingham blast.
24	UBO	eP		03 24 19.8	0.5	6.6	182	SW	3.1	San Rafael Swell, Utah Mag. 2.6 (U. of U.).
		e		03 24 23.5						
		eS		03 24 34.4						
		eSg		03 24 42.2						
		eSur		03 24 47.8						
	DUG	ePn		03 24 37.3	0.5	8.9	223		*2.6	
		eLg		03 25 07.0						
	DUG	ePn		18 37 12.9			189			Local.
		eLg		18 37 37.7						
	DUG	iP*	D	21 10 20.1	0.5	15.1				Bingham blast.
25	DUG	ePn		01 20 34.0	0.6	1.6	251			Local.
		eLg		01 21 00.9						
	DUG	eP*		20 59 20.7	0.5	12.5				Bingham blast.
26	LOG	ePn		01 27 45.8			356			Montana 45.6 N, 111.8 W 01 26 44.6
		ePg		01 27 49.8						h = 26 km Mag. 4.9.
		eL		01 28 38.1						Slight property damage at McAllister
	SLC	eP		01 28 01.7			450			and Harrison. Felt at Ennis and
		ePg		01 28 06.9						Virginia City.
		eL		01 29 06.7						
	DUG	ePn		01 28 05.5	0.7	15.0	606		4.9	
		ePg		01 28 18.9						
		eLg		01 29 28.1						
	UBO	ePn		01 28 10.4	0.5	10.6	503		4.6	
		ePg		01 28 26.6						
		eLg		01 29 24.8						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
June 26 (con't)	CCU	ePg		10 26 42.8			134			Local.
		eL		10 27 08.5						
	DUG	ePn		10 27 10.1			323			
		eLg		10 27 54.0						
	CCU	e(Pn)		13 00 41.2			156			Nevada Test Site "Arnica" 37.11 N, 116.08 W
		ePg		13 00 46.5						13 00 00.00 h = 0 km Mag. 4.3 (U. of U
		eL		13 01 02.5						
	DUG	ePn		13 01 03.0	0.7	11.0	434		*4.3	
		eLg		13 02 05.3						
	DUG	ePn		13 43 07.0	0.7	1.6	256			Local.
		eLg		13 43 40.9						
	CCU	eP		14 20 54.5			170			Southern Nevada.
		eL		14 21 30.7						
	DUG	ePn		14 21 16.3	0.8	4.3	390			
		eLg		14 22 09.7						
	CCU	ePg		14 28 39.5			170			Southern Nevada.
		eL		14 29 23.5						
	DUG	ePn		14 29 04.9	0.6	2.4	390			
		eLg		14 29 59.5						
	DUG	eP*		18 35 21.3	0.5	13.4				Bingham blast.
	DUG	eP*		18 36 32.6	0.5	16.9				Bingham blast.
	DUG	eP*		18 37 48.3	0.5	15.1				Bingham blast.
	DUG	eP*		18 39 07.0	0.5	17.8				Bingham blast.
	DUG	eP*		18 40 11.1	0.5	16.9				Bingham blast.
	DUG	eP*		20 53 39.9	0.5	14.2				Bingham blast.
	UBO	eP		21 52 43.9	0.2	1.1	56	ESE	1.6	Rangely, Colorado Mag. 1.6 (UBO).
		eS		21 52 51.9						
		eSur		21 52 54.8						
	CCU	eP		23 19 37.5			100			Utah-Nevada Border West of Cedar City, Utah
		ePg		23 19 40.2						Mag. 2.7 (U. of U.).
		eL		23 19 49.0						
	DUG	ePn		23 20 16.9	0.5	1.8	251		*2.7	
		eLg		23 20 50.0						
	DUG	ePg		23 20 40.8	0.4	0.8	410	SW		Local.
		eLg		23 21 27.6						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
June 27	DUG	ePn		07 06 33.0			537			Regional.
		eLg		07 07 51.9						
	DUG	ePn		10 20 52.9	0.5	2.7	167		*2.6	Near Huntsville, Utah Mag. 2.6 (U. of U.).
		eLg		10 21 15.0						
	UBO	eP		10 20 58.2	0.3	3.6	208	WNW	3.2	
		ePg		10 20 58.7						
		eLg		10 21 22.3						
	DUG	eP*		17 49 17.0	0.5	12.5				Bingham blast.
	DUG	eP*		20 57 57.7	0.5	15.1				Bingham blast.
28	DUG	i P	C	02 11 01.0	0.8	51.0			5.9	Eastern Kazakh SSR 49.8 N, 78.2 E 01 57 57.7 h = 0 km Mag. 5.9.
	DUG	eP		22 07 17.5	0.5	0.9	267			Local.
		ePg		22 07 22.6						
		eL		22 07 52.4						
	UBO	eP		22 07 24.1	0.3	0.4				
29	DUG	eP*		21 03 30.5	0.6	15.0				Bingham blast.
30	DUG	ePn		13 38 07.0	0.5	0.8	145			Local.
		eLg		13 38 25.7						
	DUG	ePn		14 57 43.3	1.0	16.3	1598		4.5	Gulf of California 26.0 N, 109.8 W 14 54 17.4 h = 33 km Mag. 4.5.
		eLg		15 02 01.9						
	CCU	ePg		16 17 56.4			145			Near Cedar City, Utah.
		eL		16 18 15.1						
	UBO	eP		16 18 52.2	0.4	0.8		SW		
		eLg		16 19 51.1						
	DUG	eP*		17 16 47.9	0.5	10.7				Bingham blast.
	DUG	eP*		17 17 03.0	0.5	13.4				Bingham blast.
	DUG	eP*		17 17 51.0	0.5	13.4				Bingham blast.
	DUG	eP*		17 19 33.0	0.5	17.8				Bingham blast.
	DUG	eP		19 25 19.0	0.5	17.8	122		*2.8	Near Weber Canyon, Utah Mag. 2.8 (U. of U.).
		eLg		19 25 33.5						
	UBO	eP		19 25 36.2	0.3	1.0	220	W	2.7	
		eP*		19 25 36.8						
		ePg		19 25 37.4						
		eLg		19 26 02.1						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
July 1	DUG	eP		07 57 17.1			782		4.3	Northern California 39.5 N, 122.0 W
		eL		07 59 21.0						07 55 26.3 h = 12 km Mag. 4.3.
										Minor damage in Chico.
	DUG	eP		18 58 49.9			794		4.2	Northern California 39.5 N, 112.0 W
		eL		19 00 54.3						18 56 59.5 h = 11 km Mag. 4.2 (CGS),
										3.2 (BRK).
3	DUG	eP		20 21 23.7			289			Local.
		eL		20 22 03.2						
	DUG	ePn		23 10 55.5	0.7	3.2	184		*2.1	Near San Rafael Swell, Utah Mag. 2.1
		eLg		23 11 20.0						(U. of U.).
	UBO	ePg		23 11 00.4	0.4	5.5	250	SW		
		eLg		23 11 28.2						
6	DUG	eP*		20 54 10.0	0.5	10.7				Bingham blast.
7	DUG	ePn		07 45 32.7	0.5	1.8	329			Local.
		eLg		07 46 17.7						
	DUG	ePn		10 50 18.2	0.7	3.8	507			Regional.
		eLg		10 51 31.5						
	DUG	eP*		20 52 35.0	0.5	13.4				Bingham blast.
8	DUG	ePn		01 51 03.0			256			Local.
		eLg		01 51 36.7						
	UBO	eP		04 08 32.2	0.3	0.4	245			Local.
		eLg		04 09 03.5						
	DUG	ePn		04 08 37.1			245			
		eLg		04 09 09.5						
	DUG	ePn		09 27 25.1	0.7	16.5	678			Central California 35.37 N, 117.76 W
		eLg		09 28 41.3						09 25 28.94 h = 8 km Mag. 4.5.
	DUG	eP*		20 51 24.9	0.5	13.4				Bingham blast.
	DUG	ePn		21 53 14.1	0.7	2.4	206			Local.
		eLg		21 53 40.5						
	DUG	ePn		22 40 33.0			334			Local.
		eLg		22 41 18.7						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
July 9	DUG	eP*		20 52 38.3	0.6	11.9				Bingham blast.
July 10	FGU	ePn		02 09 47.5			145			North of Huntsville, Utah Mag. 3.3 (UBO).
		eLg		02 10 07.3						
	UBO	eP		02 09 53.8	0.4	6.3	190	NW	3.3	
		ePg		02 09 54.6	0.4	14.3				
		eLg		02 10 16.7						
	DUG	ePn		02 10 05.1	0.5	1.8	184			
		eLg		02 10 29.3						
	DUG	ePn		21 48 03.5			312			Southwestern Wyoming Mag. 3.2 (UBO).
		eLg		21 48 45.7						
	FGU	ePn		21 48 08.2			312			
		eLg		21 48 45.8						
	UBO	eP		21 48 16.8	0.4	1.8	303	NW	3.2	
		ePg		21 48 21.8	0.3	3.6				
		eLg		21 48 56.1						
	UBO	eP		22 49 29.6	0.4	5.3	185	SW	3.2	San Rafael Swell area, Utah Mag. 3.2
		eS		22 49 44.7						(UBO).
		eSg		22 49 52.3						
		eSur		22 49 55.6						
	FGU	ePn		22 49 39.4			200			
		eLg		22 50 04.7						
	DUG	eP		22 49 47.1	0.8	4.8				
	UBO	eP		23 15 34.0	0.4	3.2	150	SW	2.7	South of Sunnyside, Utah Mag. 2.7 (UBO).
		eS		23 15 48.2						
		eSg		23 15 52.4						
		eSur		23 16 00.4						
	DUG	eP		23 15 52.1						
12	DUG	eP		01 02 05.6			178			Southern Idaho Mag. 2.5 (UBO).
		eL		01 02 30.4						
	UBO	eP		01 02 18.6	0.4	0.4	290	NW	2.5	
		ePg		01 02 23.6						
		eLg		01 02 55.7						
	DUG	eP*		20 58 40.1	0.6	19.0				Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
July 13	DUG	ePn		15 30 12.5				212		*2.2	Local Mag. 2.2 (U. of U.).
		eLg		15 30 40.5							
	UBO	eP		15 30 29.4	0.3		1.2	250	SW		
		eL		15 31 02.7							
	DUG	ePn		17 48 09.9	0.5		1.8	223		*2.3	Near Fishlake, Utah Mag. 2.3 (U. of U.).
		eLg		17 48 39.0							
	UBO	ePg		17 48 25.2	0.4		3.6	250	SSW		
		eL		17 48 57.8							
	14 DUG	eP		01 17 52.0				788		4.2	Central California 35.05 N, 119.06 W 01 15 36.29 h = 10 km Mag. 4.2.
	CCU	eP		08 59 56.0				100			Near Milford, Utah Mag. 2.3 (U. of U.).
		ePg		08 59 57.6							
		eL		09 00 06.0							
	DUG	eP		09 00 37.9	0.4		1.1	189		*2.3	
		ePg		09 00 40.6							
		eL		09 01 00.0							
	DUG	eP*		21 38 08.0	0.6		22.1				Bingham blast.
	DUG	ePn		23 09 11.0	0.6		0.8	229		*2.2	Near Fishlake, Utah Mag. 2.2 (U. of U.).
		eLg		23 09 41.0							
	UBO	ePg		23 09 20.9	0.3		8.3	247	SW		
		eL		23 09 48.1							
	15 DUG	ePn		05 07 49.5				145		*1.6	Near Ephraim, Utah Mag. 1.6 (U. of U.).
		eLg		05 08 07.3							
	UBO	ePg		05 07 56.1	0.3		1.2	200			
		eLg		05 08 19.1							
	DUG	eP		07 07 45.3	0.6		4.0	100		*2.4	Near Nephi, Utah Mag. 2.4 (U. of U.).
		eLg		07 07 57.7							
	UBO	eP		07 08 03.9	0.3		1.4	188		2.8	
		ePg		07 08 04.8	0.4		3.2				
		eLg		07 08 26.7							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
July 15 (con't)	UBO	ePg		18 51 53.0	0.4	4.9	198	SE		San Rafael Swell, Utah Mag. 2.4 (U. of U.).
		eSg		18 52 13.6						
		eLg		18 52 15.8						
	FGU	ePn		18 51 58.5			245			
		eLg		18 52 31.0						
	DUG	ePn		18 52 04.5	0.5	0.9	256		*2.4	
		eLg		18 52 37.9						
	DUG	ePn		22 27 08.3	0.5	0.9	378			Local.
		eLg		22 28 01.0						
16	DUG	eP		14 53 38.2						Local.
	UBO	ePg		14 53 52.5	0.3	3.0	292	SW		
		eLg		14 54 24.8						
	DUG	eP*		20 57 08.6	0.6	12.6				Bingham blast.
17	CCU	ePn		12 48 54.5			367			California-Nevada Border Region
		eL		12 49 45.2						37.45 N, 117.70 W 12 47 42.0
	DUG	ePn		12 49 12.0	0.7	2.4	524			h = 5 km.
		ePg		12 49 17.1	0.7	4.0				
		eLg		12 50 13.0						
	UBO	eP		12 50 41.7	0.6	0.5				
		eS		12 51 23.6						
	DUG	ePn		22 33 17.0	0.5	5.3	342			Local.
		ePg		22 23 24.0						
		eLg		22 24 04.0						
18	SLC	eP*		21 19 43.7						Bingham blast.
	DUG	eP*		21 19 48.9	0.6	22.1				
	UBO	eP		21 20 14.1			218	W		
	CCU	eP*		21 20 30.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
July 19	CCU	ePn		11 36 19.6			356			Local.
		ePg		11 36 28.8						
		eL		11 37 09.1						
	DUG	ePn		11 36 50.1			390			
		ePg		11 36 59.2						
		eL		11 37 43.0						
	DUG	eP*		17 57 02.0	0.6	15.8				Bingham blast.
20	DUG	ePn		03 51 06.3	0.7	1.6	529			Regional.
		eLg		03 52 21.5						
	DUG	ePn		04 11 37.5	0.7	1.6	673			Regional.
		eLg		04 13 22.0						
	DUG	ePn		12 19 50.5	0.5	0.9	267			Local.
		eLg		12 20 14.5						
	UBO	eP		15 42 08.8	0.6	2.0	401	SE		Local.
		eS		15 42 23.5			478			
	DUG	ePn		15 43 33.0						
		eLg		18 56 06.1	0.5	0.7		SW		Local.
	UBO	eP		18 56 11.9	0.6	1.5				
		ePg		18 56 57.9						
		eS		18 56 33.0			456			
	DUG	ePn		18 57 38.0						
		eLg								
21	CCU	ePg		02 29 32.5			134			Near Teasdale, Utah Mag. 3.1 (UBO).
		eL		02 29 48.2						
	DUG	ePn		02 29 40.9			234			
		ePg		02 29 42.9						
		eL		02 30 06.5						
	UBO	eP		02 30 01.3	0.4	2.2	271	SW	3.1	
		eP*		02 30 03.3	0.4	5.1				
		ePg		02 30 04.2	0.4	5.9				
		eLg		02 30 34.6						
	FGU	ePn		02 30 14.3			294			
		eLg		02 30 53.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
July 21	DUG	eP		02 33 29.4	0.6	1.6				Local Mag. 2.5 (UBO).
(con't)	UBO	ePg		02 33 32.1	0.3	1.4	160	SW	2.5	
		eSg		02 33 51.8						
	DUG	eP		03 16 00.0					5.4	Eastern Kazakh SSR 50.0 N, 77.8 E 03 02 57.1 h = 0 km Mag. 5.4.
	DUG	eP		13 39 40.6						Local.
	UBO	ePg		13 39 55.1	0.3	2.4	291	SW		
		eLg		13 40 27.5						
22	DUG	ePn		10 52 42.9	0.7	0.8	378			Local.
		eLg		10 53 34.5						
23	UBO	ePg		07 42 35.8	0.5	0.7	300			Local.
		eLg		07 43 09.8						
	DUG	e(Pg)		07 42 39.0	0.7	1.6				
		eLg		07 43 07.3						
	CCU	ePn		13 01 20.5			735			Baja California 31.8 N, 115.9 W
		ePg		13 01 28.2						12 59 47.9 h = 33 km Mag. 4.6.
		eL		13 03 10.5						
	DUG	ePn		13 02 01.9	0.7	4.7	966		4.6	
		ePg		13 02 35.0						
		eLg		13 04 31.3						
	DUG	e(Pg)		13 13 43.5			245			Local.
		eLg		13 14 11.0						
	UBO	ePg		13 13 55.9	0.3	0.6	325	SW		
		eLg		13 14 33.1						
	DUG	ePn		19 05 02.0			318			Local.
		eLg		19 05 44.5						
	DUG	ePn		21 50 41.1	0.6	2.4	256			Local.
		eLg		21 51 14.9						
24	DUG	eP		04 10 10.1	1.0	28.8			5.3	Eastern Kazakh SSR 49.8 N, 78.2 E 03 56 57.4 h = 0 km Mag. 5.3.
	DUG	eP		07 33 25.1			170			Salina, Utah Mag. 3.7 (UBO).
		eL		07 33 49.0						
	UBO	ePg		07 33 32.7	0.4	9.7	253	SW	3.7	
		eLg		07 34 01.1						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
July 24 (con't)	DUG	eP		09 46 50.9	0.7	1.6	167		*1.6	Near Salina, Utah Mag. 1.6 (U. of U.).
		eL		09 47 14.0						
	UBO	ePg		09 46 58.1	0.4	19.0	254	218		
		eLg		09 47 26.6						
	DUG	eP		13 15 51.9			167			Near Salina, Utah Mag. 3.7 (UBO).
		eL		13 16 14.2						
	UBO	ePg		13 15 58.1	0.4	9.5	250	212	3.7	
		eLg		13 16 26.0						
	DUG	ePn		18 34 02.0	0.5	0.9	167		*2.2	Near Salina, Utah Mag. 2.2 (U. of U.).
		ePg		18 34 05.0						
		eL		18 34 25.0						
	UBO	eP		18 34 10.7	0.3	1.4	253	200		
		ePg		18 34 11.2	0.4	38.0				
		eLg		18 34 39.4						
	FGU	ePn		22 02 45.2			178			Local Mag. 2.7 (UBO).
		eLg		22 03 08.0						
	UBO	eP		22 02 54.4	0.3	0.8	250	NE	2.7	
		eP*		22 02 56.3						
		ePg		22 02 57.0						
		eLg		22 03 24.8						
	DUG	ePn		22 03 15.5			445			Local.
		ePg		22 03 28.1						
		eL		22 04 19.0						
25	DUG	eP		22 28 16.5			160		*2.2	Near Salina, Utah Mag. 2.2 (U. of U.).
		eL		22 28 36.7						
	UBO	ePg		22 28 22.8	0.4	1.0	254	SW	2.7	
		eLg		22 28 51.4						
26	UBO	eP		12 36 10.5	0.3	3.8	31	113	1.7	Near Rangely, Colorado Mag. 1.7 (UBO).
		eS		12 36 14.2						
		eSur		12 36 19.1						
	FGU	eP		12 36 16.2			78			
		eS		12 36 26.1						
	DUG	eP		12 37 20.4						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
July 26 (con't)	DUG	ePn		21 58 32.2	0.7	7.1		212		*3.4	Nevada 39.278 N, 114.98 W 21 57 58.87
		ePg		21 58 36.0							h = 5 km Mag. 3.7 (CGS),
		eL		21 59 02.5							3.4 (U. of U.).
	CCU	ePg		21 58 35.6				290			
		eL		21 59 08.8							
	UBO	ePn		21 59 09.3	0.3	4.0		442	254		
		ePg		21 59 21.1	0.4	4.4					
		eLg		22 00 11.6							
27	UBO	ePg		04 10 09.5	0.3	4.8		267	222		Near Fishlake, Utah.
		eS		04 11 29.0							
	DUG	ePg		04 10 50.9				200			
		eLg		04 11 14.3							
	DUG	ePn		06 43 38.7				289		*1.5	Green River Desert, Utah Mag. 1.5
		eLg		06 44 00.0							(U. of U.).
	UBO	eP		06 43 43.8	0.4	5.0		258	213		
		eS		06 44 12.6							
	DUG	ePg		08 10 12.9				200		2.0	Near Fishlake, Utah Mag. 2.0 (U. of U.).
		eLg		08 10 35.5							
	UBO	eP		08 10 21.9	0.3	7.3		256	214		
		eS		08 10 50.0							
	FGU	ePn		08 10 30.0				272			
		eLg		08 11 06.0							
	DUG	ePn		08 45 10.5	0.5	0.9		467			Nevada 39.017 N, 118.014 W 08 44 00.19
		eLg		08 46 15.0							h = 15 km.
	DUG	ePg		10 00 06.5				223			Near Beaver, Utah Mag. 3.2 (UBO).
		eLg		10 00 32.1							
	UBO	eP		10 00 26.2	0.6	2.0		334	227	3.2	
		eS		10 01 03.8							
	DUG	ePn		10 46 43.3				306		*2.0	Near Hanksville, Utah Mag. 2.0 (U. of U.).
		eLg		10 47 00.0							
	UBO	eP		10 46 43.9	0.4	5.9		267	214		
		eS		10 47 13.5							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
July 27 (con't)	DUG	ePn		11 02 35.9	0.5	0.9		184		*2.4	Near Salina, Utah Mag. 2.4 (U. of U.).
		ePg		11 02 38.1							
		eLg		11 02 59.5							
	UBO	eP		11 01 43.1	0.4	21.4		260	212		
		eS		11 02 14.0							
	FGU	ePn		11 01 52.8				272			
		ePg		11 01 55.6							
		eLg		11 02 29.2							
	DUG	ePg		11 22 35.0				200			Local.
		eLg		11 22 57.9							
	UBO	eP		11 22 43.2	0.4	3.4		245	212		
		eS		11 23 11.2							
28	DUG	eP		04 04 49.2				111			Local.
		eL		04 05 03.6							
	UBO	eP		04 05 14.1	0.3	0.6					
		eLg		04 05 47.5							
	DUG	eP		14 04 30.9	0.5	1.8		178			Local Mag. 2.7 (UBO).
		eL		14 04 56.6							
	UBO	eP		14 04 51.9	0.3	0.4		319	NW	2.7	
		ePg		14 04 53.8	0.4	2.0					
		eLg		14 05 30.0							
	DUG	ePn		17 03 16.5				401			Southern Nevada 36.99 N, 114.94 W
		eLg		17 04 07.6							17 02 09.20 h = 5 km.
	DUG	eP		20 44 34.3	0.6	4.7		122		*2.5	*West of Nephi, Utah 39.79 N, 111.94 W
		ePg		20 44 36.5							20 44 19.2 h = 0 km Mag. 2.5 (4 sta).
		eL		20 44 48.6							
	PCU	eP		20 44 35.5				130			
		ePg		20 44 44.3							
		eL		20 44 49.3							
	UBO	eP		20 44 51.7	0.3	1.6		216	W	2.9	
		eP*		20 44 52.3	0.3	4.4					
		ePg		20 44 52.9	0.3	19.3					
		eSg		20 45 15.0							
		eLg		20 45 17.3							
	FGU	ePn		20 44 56.8				245			
		eSn		20 45 25.0							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
July 28	DUG	eP*		20 55 37.9	0.6	20.6				Bingham blast.
	PCU	eP*		20 55 52.5						
	UBO	eP		20 56 02.9	0.3	6.2				
	DUG	eP		21 59 04.0			256			Local Mag. 2.6 (UBO).
		eP		21 59 09.0						
		eL		21 59 33.8						
	UBO	eP		21 59 15.1	0.3	0.6	258	NE	2.6	
		ePg		21 59 16.2						
		eLg		21 59 45.4						
	DUG	eP		22 02 35.8			240			North of Preston, Idaho Mag. 3.0 (UBO).
		eL		22 03 18.6						
	UBO	eP		22 02 37.6	0.3	0.6	324	NW	3.0	
		eP*		22 02 40.9						
		ePg		22 02 43.1						
		eLg		22 03 20.2						
	DUG	eP		22 23 25.6			390			Local.
		eL		22 24 20.0						
29	DUG	ePn		01 25 00.5	0.7	3.2	623		3.5	California-Nevada Border Region
		eLg		01 26 13.0						36.033 N, 117.749 W 01 23 16.68
										h = 10 km Mag. 3.5 (CGS), 3.0 (PAS).
	DUG	ePn		06 30 40.4	0.4	3.2	145		*2.9	*Huntsville, Utah 41.26 N, 111.77 W
		eSn		06 30 57.0						06 30 18.0 h = 20 km Mag. 2.9 (4 sta)
	PCU	ePg		06 30 46.8			160			
		eL		06 31 08.9						
	FGU	ePn		06 30 47.1			178			
		eSn		06 31 12.0						
	UBO	eP		06 30 50.0	0.3	0.6	185	W	2.3	
		eP*		06 30 50.5	0.3	9.7				
		ePg		06 30 51.1	0.3	26.4				
		eLg		06 31 12.7						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
July 29 (con't)	FGU	ePn		12 56 02.5			378			Yellowstone Park area.
		eLg		12 56 59.0						
	UBO	eP		12 56 13.2	0.4	0.6	468	NW		
		e		12 56 19.7						
		ePg		12 56 24.5						
		eLg		12 57 18.7						
	DUG	eP		12 56 15.9	0.9	4.0				
	PCU	ePn		12 56 20.7			501			
		ePg		12 56 37.0						
		eL		12 57 43.3						
	DUG	ePn		18 12 13.7	0.5	2.7	456			Southern Nevada 37.31 N, 116.63 W
		ePg		18 12 20.0						18 10 57.57 h = 5 km.
		eLg		18 13 06.9						
	DUG	ePn		18 17 12.9	0.5	0.9	384			Local.
		eLg		18 18 07.3						
	PCU	eP		19 26 11.2			178			*12 miles west of Woodside, Utah
		ePg		19 26 24.8						39.26 N, 110.66 W 19 26 04.2
		eL		19 26 36.0						h = 10 km Mag. 2.4 (4 sta).
	UBO	eP		19 26 27.1	0.3	5.4	181	195	3.1	
		ePg		19 26 28.5	0.5	10.6				
		eSg		19 26 47.7						
		eLg		19 26 49.8						
	DUG	ePn		19 26 35.9	0.5	0.9	256		*2.4	
		eLg		19 27 10.1						
	FGU	ePg		19 26 37.1			267			
		eLg		19 27 06.1						
	PCU	eP		21 03 09.1			45			South of Sunnyside, Utah.
		ePg		21 03 16.0						
		eL		21 03 20.1						
	DUG	ePn		23 51 07.1	0.7	2.4	145			Local.
		eLg		23 51 24.0						
30	UBO	eP		00 21 27.4	0.5	3.5	323	50		Local.
		eS		00 22 04.1						
	DUG	ePn		00 22 14.3	0.7	1.6	423			
		eLg		00 23 14.1						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
July 30 (con't)	DUG	ePn		07 44 11.7	0.5	1.8		340			Local.
		eLg		07 44 58.5							
	DUG	ePg		08 58 01.3	0.5	4.5		56		*2.0	*6 miles south of Leamington, Utah
		e		08 58 04.5							39.44 N, 112.23 W 08 57 45.7
		eS		08 58 12.5							h = 20 km Mag. 2.0 (4 sta).
	PCU	eP		08 58 04.8				100			
		ePg		08 58 06.7							
		eL		08 58 15.8							
	UBO	eP		08 58 21.0	0.3	1.8		200	W		
		e		08 58 23.0							
		eS		08 58 45.5							
	FGU	ePg		08 58 27.2				278			
		eLg		08 58 56.7							
	PCU	eP		12 42 08.5				140			North of Salina, Utah Mag. 2.2 (U. of U.).
		ePg		12 42 22.8							
		eL		12 42 25.7							
	DUG	ePn		12 42 21.5	0.7	1.6		167		*2.2	
		ePg		12 42 23.5							
		eLg		12 42 43.7			6.0				
	UBO	eP		12 42 30.2	0.4	23.8		251	224		
		eS		12 42 59.0							
	FGU	ePg		12 42 39.2				323			
		eLg		12 43 15.2							
	DUG	ePn		16 20 30.0							Local.
	UBO	ePg		16 20 55.3	0.4	1.6		228	W		
		eLg		16 21 20.8							
	UBO	ePg		20 17 15.2	0.5	1.8		254	SE	2.9	Local Mag. 2.9 (UBO).
		eLg		20 17 44.6							
	DUG	ePn		20 17 50.5	0.6	11.1		456		4.1	Southern Nevada 37.29 N, 116.49 W
		ePg		20 18 00.0							20 16 36.13 h = 7 km Mag. 4.1.
		eLg		20 18 45.0							
	PCU	ePn		20 17 54.7				545			
		ePg		20 18 12.6							
		eL		20 19 15.1							
	FGU	ePn		20 18 19.3				678			
		eLg		20 20 09.2							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
July 30	DUG	eP*		21 03 26.7	0.6	12.6				Bingham blast.
(con't)	DUG	ePn		21 10 38.9	0.5	1.8	294			Local.
		eLg		21 11 18.7						
	DUG	ePg		22 28 56.5	0.7	2.4	312			Local.
		eLg		22 29 35.0						
	DUG	ePn		22 33 16.5	0.7	1.6	300			Local.
		eLg		22 33 58.0						
	PCU	eP		20 33 14.7			156			East of Richfield, Utah.
		ePg		20 33 21.5						
		eL		20 33 36.0						
	DUG	eP		20 33 28.0			190			
		ePg		20 33 36.0						
		eL		20 33 54.5						
	UBO	eP		20 33 37.5	0.4	33.0	235	222		
		eS		20 34 06.8						
	PCU	eP		20 43 02.0			111			East of Richfield, Utah.
		eL		20 43 15.2						
	DUG	eP		20 43 16.9			212			
		eL		20 43 40.2						
	UBO	eP		20 43 23.3	0.4	14.3	235	210		
		eS		20 43 52.4						
	DUG	eP*		20 54 02.0	0.6	15.8				Bingham blast.
Aug 1	PCU	iP	D	04 48 38.5			60			Southeast of Castle Dale, Utah Mag. 2.6 (U. of U.).
		ePg		04 48 42.5						
		eL		04 48 44.7						
	UBO	eP		04 49 00.6	0.5	3.0	175	230	2.7	
		ePg		04 49 03.3						
		eS		04 49 15.7						
		eSg		04 49 25.0						
		eSur		04 49 30.4						
	FGU	ePg		04 49 08.9			234			
		eLg		04 49 35.3						
	DUG	ePn		04 49 09.9	0.6	3.2	223		*2.6	
		eLg		04 49 38.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Aug 1 (con't)	DUG	iP*	C	17 50 52.7	0.6	12.6				Bingham blast.
2	DUG	eP		05 53 35.5	0.7	2.4	122		*2.2	South of Levan, Utah Mag. 2.2 (U. of U.).
		eS		05 53 50.0						
	UBO	eP		05 53 53.1	0.4	0.6	226	SW	2.4	
		eLg		05 54 18.4						
	DUG	ePn		07 24 10.1	0.9	9.9	845		4.6	Gulf of California 27.4 N, 111.3 W
		eLg		07 28 14.3						07 21 04.2 h = 33 km Mag. 4.6.
	DUG	eP*		20 58 21.0	0.6	10.3				Bingham blast.
	DUG	ePn		22 01 48.0	0.6	4.0	223			Probable McGill, Nevada blast.
		ePg		22 01 52.5						
		eLg		22 02 16.7						
	UBO	eP		22 02 25.3	0.5	1.1				
		eL		22 03 33.4						
3	PCU	ePn		00 35 58.2			145			North of Green River, Utah Mag. 2.5
		ePg		00 36 05.8						(U. of U.).
		eL		00 36 15.9						
	UBO	eP		00 36 10.7	0.5	4.4	122	SW		
		eS		00 36 26.2						
	FGU	ePn		00 36 21.0			212			
		ePg		00 36 23.0						
		eSn		00 36 43.2						
		eLg		00 36 46.9						
	DUG	ePn		00 36 29.0	0.7	2.4	256		*2.5	
		eLg		00 37 03.1						
	PCU	eP		07 49 06.0			45			South of Sunnyside, Utah.
		ePg		07 49 12.1						
		eL		07 49 18.0						
	UBO	eP		07 49 17.8	0.4	0.4	156			
		eS		07 49 38.2						
	DUG	iP*	C	21 16 00.0	0.5	11.6				Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Aug 4	CCU	ePn		04 16 11.5				815			Central California 36.7 N, 122.1 W
		ePg		04 16 37.2							04 14 22.5 h = 5 km Mag. 4.5.
		eL		04 18 15.5							Felt in Monterey Bay area. Slight
	DUG	ePn		04 16 21.9	0.7	8.7		897		4.5	damage.
		eLg		04 18 35.7							
	PCU	ePn		04 16 41.7				969			
		ePg		04 16 55.5							
		eL		04 19 09.5							
	LOG	eP		04 16 54.3				991			
		eL		04 19 24.1							
	UBO	eP		16 53 41.0	0.5	6.4		58	106	2.0	Near Rangely, Colorado Mag. 2.2 (U. of U.).
		e		16 53 43.2							
		eS		16 53 49.2							
		eSur		16 53 53.2							
	PCU	ePn		16 54 02.0							
		ePg		16 54 50.0							
		eL		16 54 56.7							
	DUG	e(Pn)		16 54 42.5						*2.0	
		eLg		16 55 13.0							
	UBO	ePn		18 00 09.6	0.4	0.6		434	N	3.2	Yellowstone Park area Mag. 3.2 (UBO).
		eP*		18 00 20.9							
		ePg		18 00 23.4							
		eSg		18 01 09.2							
		eLg		18 01 12.5							
	DUG	ePn		18 00 18.3	0.7	3.2		545			
		eLg		18 01 38.0							
	PCU	ePn		18 00 24.0				565			
		ePg		18 00 34.7							
		eL		18 01 43.5							
	DUG	ePn		19 06 40.7				284			Local.
		eLg		19 07 19.0							
	DUG	ePn		19 55 22.0	0.5	19.4					Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Aug 4 (con't)	FGU	ePn		20 08 50.1			186			Western Wyoming Mag. 2.3 (UBO).
		eLg		20 09 14.0						
	UBO	eP		20 08 59.8	0.3	0.4	251	NNE	2.3	
		ePg		20 09 01.2						
		eLg		20 09 29.3						
	DUG	ePn		20 09 21.0	0.5	1.8	423			
		eLg		20 10 20.9						
	PCU	eP		20 10 14.6			590			
		eL		20 11 43.3						
	FGU	ePn		20 46 33.0			167			Southern Idaho Mag. 2.8 (U. of U.).
		eLg		20 46 55.0						
	UBO	eP		20 46 41.2	0.3	12.1	189	NW	3.0	
		ePg		20 46 41.9						
		eLg		20 47 03.9						
	DUG	ePn		20 46 51.0	0.6	3.2	272		*2.8	
		eLg		20 47 26.5						
	DUG	eP*		21 27 48.1	0.5	11.6				Bingham blast.
5	PCU	eP		19 51 27.9			111			San Rafael Swell, Utah area Mag. 3.1 (UBO).
		ePg		19 51 35.2						
		eL		19 51 40.9						
	UBO	eP		19 51 43.0	0.4	6.9	178	SW	3.1	
		ePg		19 51 43.8						
		eSg		19 52 03.2						
		eLg		19 52 04.8						
	DUG	ePn		19 51 52.0			234			
		eLg		19 52 26.5						
6	SLC	ePg		00 51 59.4			212			Southeastern Idaho Mag. 3.1 (U. of U.).
		eL		00 52 27.9						
	DUG	ePn		00 52 04.9	0.7	3.2	323		*3.1	
		ePg		00 52 13.0						
		eLg		00 52 48.5						
	UBO	eP		00 52 07.6	0.3	1.2	323	NW	3.2	
		ePg		00 52 12.8						
		eLg		00 52 49.8						
	PCU	ePn		00 52 13.3			356			
		eL		00 53 03.6						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Aug 6	DUG	iP*	C	20 51 33.5	0.5	27.6				Bingham blast.
(con't)	DUG	ePn		21 55 53.1	0.6	2.4	229			Southeastern Idaho.
		eLg		21 56 22.5						
	UBO	ePg		21 56 19.4	0.3	3.4	303			
		eLg		21 56 53.7						
	PCU	ePg		21 56 48.5			434			
		eL		21 57 37.7						
7	DUG	ePn		20 59 03.5	0.7	2.4	606		3.9	Oregon 44.5 N, 117.4 W 20 57 41.1
		eLg		21 00 34.5						h = 11 km Mag. 3.9.
	CCU	eP		21 58 23.2			170			East Central Nevada Mag. 2.0 (U. of U.).
		ePg		21 58 29.7						
		eL		21 58 46.7						
	DUG	ePn		21 58 56.1			212		*2.0	
		eLg		21 59 23.7						
	UBO	eP		21 58 53.7	0.5	1.3	405	SW	3.3	
		ePg		21 59 01.1						
		eLg		21 59 46.4						
	DUG	eP		23 53 11.0						Local Mag. 2.4 (UBO).
	UBO	eP		23 53 13.6	0.5	0.7	229	ESE	2.4	
		ePg		23 53 14.5						
		eLg		23 53 40.0						
8	DUG	eP		10 45 27.8			140			East of Richfield, Utah.
		eL		10 45 45.0						
	UBO	eP		10 45 44.4	0.4	0.4	250			
		eL		10 46 16.9						
	PCU	eP		11 25 37.2			111			North of Teasdale, Utah Mag. 3.0 (UBO).
		ePg		11 25 47.5						
		eL		11 25 51.3						
	UBO	eP		11 25 58.6	0.4	2.0	252	214	3.0	
		eL		11 26 26.9						
	PCU	eP		13 58 11.2			140			East of Richfield, Utah Mag. 2.9 (UBO).
		ePg		13 58 18.4						
		eL		13 58 28.2						
	UBO	ePg		13 58 36.7	0.4	1.6	251	SW	2.9	
		eLg		13 59 04.7						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Aug 8	DUG	eP*		17 40 26.5	0.6	11.9				Bingham blast.
(con't)	UBO	eP		17 56 27.1	0.4	2.6	266	320	2.7	Southeastern Idaho Mag. 2.7 (UBO).
		eP*		17 56 29.0						
		ePg		17 56 30.8						
		eL		17 57 00.7						
	PCU	ePg		17 56 33.3						
		eL		17 57 13.5						
9	DUG	eP		05 13 32.1			150		*2.2	Near Promontory, Utah Mag. 2.2 (U. of U.).
		eL		05 13 52.5						
	UBO	eP		05 13 48.0	0.4	0.6	294	NW	2.8	
		ePg		05 13 50.4						
		eLg		05 14 23.1						
	PCU	eP		05 13 50.4						
	DUG	eP		16 16 22.5			189			Local.
		eL		16 16 44.2						
	PCU	ePg		16 31 09.2			122			North of Teasdale, Utah Mag. 3.5 (UBO).
		eL		16 31 23.9						
	UBO	ePg		16 31 30.3	0.4	6.1	252	220	3.5	
		eLg		16 31 58.5						
10	CCU	ePn		10 49 45.7			289			Southern Nevada 37.19 N, 115.87 W
		ePg		10 50 11.7						10 48 56.41 h = 3 km Mag. 4.1 (CGS),
		eL		10 50 44.4						4.4 (BRK), 4.0 (U. of U.).
	DUG	ePn		10 50 04.0	0.5	12.5	422		*4.0	
		ePg		10 50 12.3						
		eLg		10 50 57.3						
	SLC	eP		10 50 13.7			578			
		ePg		10 50 32.5						
		eL		10 51 40.0						
	UBO	ePn		10 50 24.4			590		4.1	
		eSg		10 51 58.4						
	FGU	ePn		10 50 33.7			623			
		eLg		10 52 12.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Aug 10	SLC	eP*		21 01 12.9						Bingham blast.
(con't)	DUG	eP		21 01 17.7	0.5	24.9				
	PCU	eP		21 01 35.1						
	UBO	eP		21 01 41.8	0.3	6.9				
	FGU	eP*		21 01 44.0						
11	DUG	eP*		17 46 18.9	0.5	16.0				Bingham blast.
12	PCU	eP		02 45 09.7			58			Near Nephi, Utah Mag. 1.6 (U. of U.).
		eL		02 45 17.9						
	DUG	eP		02 45 16.7	0.5	1.9	78		*1.6	
		eS		02 45 26.9						
	UBO	ePg		02 45 28.1	0.4	1.2	193	248	2.6	
		eLg		02 45 50.5						
	DUG	eP*		17 47 19.0	0.5	10.7				Bingham blast.
	DUG	ePn		23 56 51.0			289			Local.
		eLg		23 57 29.9						
13	DUG	ePn		18 20 30.0	0.7	0.8	606			Regional.
		eLg		18 22 00.0						
	DUG	eP*		20 58 46.9	0.5	18.7				Bingham blast.
	DUG	ePn		21 52 36.9	0.7	1.6	300			East Central Idaho.
		eLg		21 53 18.0						
	UBO	eP		21 52 39.4	0.4	1.2	330	NW		
		ePg		21 52 44.2						
		eLg		21 53 21.8						
14	DUG	eP		06 30 52.9			943		4.7	Northern California 40.3 N, 123.9 W 06 28 48.6 h = 33 km Mag. 4.7. Felt in Eureka and Del Rio Areas.
	DUG	eP*		20 54 22.5	0.6	14.2				Bingham blast.
	DUG	eP		21 31 29.0			290			Local.
		eL		21 32 09.0						
	UBO	eP		23 59 05.8	0.3	2.6	335			West Central Wyoming.
		eS		23 59 52.8						
	DUG	ePn		23 59 06.9	0.7	3.2	356			
		eLg		23 59 56.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Aug 15	DUG	ePn		04 10 43.9				184			Local.
		eLg		04 11 08.0							
	DUG	ePn		04 11 34.3	0.5		2.7	189		*2.3	Near Monroe, Utah Mag. 2.3 (U. of U.).
		eLg		04 11 58.5							
	UBO	eP		04 11 51.9	0.4		0.8	284	SW	2.8	
		ePg		04 11 54.1							
		eL		04 12 25.6							
	DUG	ePn		05 49 15.0	0.7		2.4	512			Regional.
		eLg		05 50 28.0							
	DUG	ePn		08 14 01.3	0.5		1.6	184		*2.3	Near Monroe, Utah Mag. 2.3 (U. of U.).
		eLg		08 14 25.5							
	UBO	eP		08 14 18.6	0.4		0.6	273	SW	2.6	
		ePg		08 14 21.3							
		eL		08 14 51.8							
	DUG	ePn		10 03 49.3	0.5		1.6	167	232	*2.0	South of Manti, Utah Mag. 2.0 (U. of U.).
		eLg		10 04 11.3							
	UBO	eP		10 03 57.0	0.3		0.4	224		2.3	
		ePg		10 03 57.5							
		eLg		10 04 23.6							
	DUG	ePn		16 13 00.0	0.5		3.6	189		*2.4	Near Salina, Utah Mag. 2.4 (U. of U.).
		eLg		16 13 24.5							
	UBO	eP		16 13 17.1	0.4		0.8	263	SW	2.7	
		ePg		16 13 19.8							
		eLg		16 13 49.4							
	DUG	ePn		18 27 02.1	0.5		0.8	567			Regional.
		eLg		18 28 26.0							
	PCU	eP		18 52 13.8				45			South of Sunnyside, Utah.
		ePg		18 52 18.3							
		eL		18 52 24.8							
	UBO	ePg		18 52 37.6	0.6		2.0	164	SW		
		eL		18 52 58.2							
	DUG	iP*	C	20 55 21.5	0.5		14.2				Bingham blast.
16	DUG	ePn		16 31 01.0				839		4.3	Central California 36.6 N, 121.3 W
		ePg		16 31 33.0							16 29 05.28 h = 8 km Mag. 4.5.
		eL		16 33 05.1							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp	(Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Aug 17	PCU	eP		16 26 49.5				167			Local.
		ePg		16 26 57.1							
		eL		16 27 12.3							
	UBO	eP		16 27 02.3	0.5	0.7		223			
		eS		16 27 20.9							
	DUG	ePn		18 49 08.3	0.7	4.7		334			Local.
		ePg		18 49 11.7							
		eLg		18 49 53.9							
	UBO	eP		18 49 32.0	0.4	0.8		412			
		eS		18 50 31.7							
	DUG	eP*		20 54 37.9	0.5	10.7					Bingham blast.
	PCU	eP		21 27 14.8				45			South of Sunnyside, Utah.
		ePg		21 27 17.0							
		eL		21 27 26.2							
	DUG	eP*		21 27 38.9							
	UBO	eP		21 28 04.8	0.5	2.2		200	SW		
		eS		21 28 29.6							
18	PCU	eP		09 06 08.0				45			South of Sunnyside, Utah Mag. 2.2 (UBO).
		ePg		09 06 12.3							
		eL		09 06 18.0							
	UBO	eP		09 06 30.6	0.3	0.4		181	SW	2.2	
		ePg		09 06 32.0							
		eSg		09 06 54.3							
	DUG	ePn		18 57 27.9	0.7	10.3		156		*2.2	Near Ephraim, Utah Mag. 2.2 (U. of U.).
		eSn		18 57 40.9							
		eLg		18 57 44.0							
	UBO	eP		18 57 43.7	0.3	1.2		202	W	2.7	
		ePg		18 57 44.8							
		eL		18 58 08.0							
	DUG	eP*		20 55 36.0	0.5	10.7					Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Aug 19	UBO	eP		00 02 36.9	0.4	1.2	181	SW	2.4	Local Mag. 2.4 (UBO).
		ePg		00 03 01.4						
		eS		00 03 11.9						
		eSg		00 03 32.7						
	PCU	ePn		00 02 44.5			278			
		ePg		00 02 51.1						
		eL		00 03 21.5						
	DUG	ePn		06 56 18.0	0.8	14.9	838		4.6	Northern California 40.2 N, 122.7 W
		ePg		06 56 43.0						06 54 25.6 h = 17 km Mag. 4.6.
		eLg		06 58 30.1						Felt in Redding and Red Bluff Areas.
	DUG	ePn		19 08 15.0	0.5	0.9	312			Local.
		eLg		19 08 57.0						
	PCU	eP		20 02 34.0			45			South of Sunnyside, Utah.
		ePg		20 02 36.9						
		eL		20 02 45.0						
	UBO	eP		20 02 58.7	0.5	2.2				
		eSur		20 03 17.2						
	DUG	iP*	C	20 56 05.9	0.5	17.8				Bingham blast.
20	DUG	ePn		08 12 22.0	0.7	1.8	256		*2.2	Near Antimony, Utah Mag. 2.2 (U. of U.).
		eLg		08 12 55.0						
	UBO	eP		08 12 41.1	0.4	0.6	323	SW	2.9	
		ePg		08 12 46.6						
		eLg		08 13 23.6						
	DUG	iP*	C	20 53 17.0	0.5	16.0				Bingham blast.
	PCU	ePg		22 02 05.4			290			*North of Caineville, Utah 38.41 N, 110.97 W
		eL		22 02 45.5						22 01 44.2 h = 10 km Mag. 2.7 (4 sta)
	UBO	ePn		22 02 19.9	0.4	1.6	309	SSW	3.2	
		ePg		22 02 27.3						
		eS		22 02 52.2						
	DUG	ePn		22 02 21.3	0.7	1.6	390		*2.7	
		eLg		22 03 16.0						
	FGU	ePn		22 02 29.0			461			
		eLg		22 03 34.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Aug 20 (con't)	DUG	ePn		22 05 40.5	0.9	12.9	567			Regional.
		ePg		22 05 49.5						
		eLg		22 07 04.7						
21	DUG	ePg		04 21 51.7	0.7	2.4	345			Local.
		eLg		04 22 31.0						
22	DUG	eP		12 54 39.7	0.5	2.7	110			Local.
		eS		12 54 53.1		4.0				
	UBO	eP		12 55 02.9	0.3	0.6				
		eSur		12 55 29.6						
	DUG	eP		20 47 11.9	0.9	13.9	966		4.6	Coast of Northern California 40.4 N, 124.2 W 20 45 04.7 h = 31 km Mag. 4.6.
23	PCU	ePn		00 36 41.1			190			South of Emery, Utah.
		ePg		00 36 58.9						
		eL		00 37 04.9						
	DUG	ePn		00 36 55.5	0.7	2.4	206			
		eLg		00 37 22.5						
	UBO	ePg		00 37 02.9	0.4	5.7	223	SW		
		eLg		00 37 29.8						
	PCU	eP		07 11 17.8			45			South of Sunnyside, Utah Mag. 2.0 (UBO).
		ePg		07 11 20.4						
		eL		07 11 28.8						
	UBO	eP		07 11 40.3	0.5	0.7	164	SW	2.0	
		ePg		07 11 42.9						
		eSg		07 12 03.4						
		eSur		07 12 10.3						
	PCU	eP		10 03 48.8			45			South of Sunnyside, Utah Mag. 2.1 (UBO).
		ePg		10 03 53.2						
		eL		10 03 59.8						
	UBO	eP		10 04 11.2	0.4	0.6	179	SW	2.1	
		ePg		10 04 13.8						
		eSg		10 04 35.9						
		eSur		10 04 43.4						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Aug 23	DUG	eP*		17 45 23.0	0.5	17.8				Bingham blast.
(con't)	DUG	ePn		20 08 16.7	0.7	4.7	556			Regional.
		eLg		20 09 37.5						
	DUG	e(Pn)		21 01 03.0			200			South of Salina, Utah.
		eLg		21 01 25.9						
	UBO	ePg		21 01 09.6	0.4	4.7	248	SW		
		eLg		21 01 37.0						
24	UBO	eP		18 18 53.3	0.3	1.2	467	SSE	3.8	Local Mag. 3.8 (UBO).
		ePg		18 19 00.8						
		eS		18 19 46.4						
	DUG	ePn		18 19 20.3	0.5	1.0	478			
		eLg		18 20 29.0						
	DUG	ePn		18 37 33.0	0.5	4.5	312			Local.
		ePg		18 37 39.5						
		eSn		18 38 06.1						
		eLg		18 38 15.1						
	DUG	ePn		19 10 00.5	0.7	1.6	323			Local.
		eLg		19 10 45.0						
	DUG	ePn		20 16 07.0			445			Local.
		eLg		20 17 10.5						
	DUG	eP*		20 52 11.3	0.5	14.2				Bingham blast.
25	DUG	ePn		14 29 35.5	0.7	1.6	667			Regional.
		eLg		14 31 18.9						
	DUG	ePn		17 44 53.0	0.7	0.8	573			Regional.
		eLg		17 46 18.0						
	DUG	ePn		18 51 10.3			256			Local.
		eLg		18 51 44.9						
	DUG	ePn		19 14 42.5	0.7	1.6	334			Local.
		eLg		19 15 29.3						
	DUG	iP*	D	20 52 53.7	0.5	29.4				Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Aug 26	DUG	ePn		01 11 11.1	0.9	3.0	864		4.3	Southern California 34.3 N, 119.2 W
		ePg		01 11 33.5						01 08 59.5 h = 3 km Mag. 4.3 (CGS),
		eLg		01 13 04.9						3.6 (PAS).
										Felt in Santa Barbara area.
	SLC	eP		04 07 48.7			111			Near Lakeside, Utah Mag. 2.4 (U. of U.).
		eL		04 08 02.4						
	DUG	eP		04 07 57.5	0.5	15.1	122		*2.4	
		eS		04 08 11.0						
	UBO	eP		04 08 31.1	0.3	0.4	295	WNW	2.7	
		ePg		04 08 33.1						
		eS		04 09 00.2						
		eLg		04 09 06.3						
	DUG	ePn		14 11 16.9			186		*2.1	Near Monroe, Utah Mag. 2.1 (U. of U.).
		eSn		14 11 37.7						
		eLg		14 11 41.1						
	UBO	ePg		14 11 34.4	0.3	1.4	300	SW		
		eLg		14 12 08.7						
	DUG	eP		17 52 26.0	0.5	13.4				Bingham blast.
	CCU	ePg		19 30 43.1			167			Near Boulder, Utah Mag. 2.5 (U. of U.).
		eL		19 31 06.0						
	UBO	ePn		19 31 14.0	0.5	2.0	300	SW	3.2	
		ePg		19 31 22.4						
		eLg		19 31 56.5						
	DUG	ePn		19 31 16.1	0.5	1.6	300		*2.5	
		eLg		19 31 57.3						
27	DUG	eP*		20 51 11.3	0.6	25.3				Bingham blast.
	PCU	eP		20 53 16.3			167			Local.
		ePg		20 53 21.3						
		eL		20 53 39.7						
	UBO	eP		20 53 37.6	0.4	4.0				
		eSur		20 53 54.1						
28	DUG	eP		10 40 16.4	1.0	25.0	1083		4.6	Off Coast of Northern California
										41.8 N, 125.6 W 10 37 54.7
										h = 33 km Mag. 4.6.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Aziz (deg)	Mag	Remarks
Aug 28 (con't)	PCU	eP		12 16 53.3			45			Probable rockburst near Sunnyside, Utah.
		ePg		12 16 55.3						
		eR		12 17 08.8						
	UBO	eP		12 17 06.2	0.5	3.3		SW		
		eS		12 17 23.9						
		eSur		12 17 31.7						
	FGU	ePn		12 17 06.6			312			
		ePg		12 17 16.6						
		eSg		12 17 41.1						
		eLg		12 17 49.6						
	DUG	eP		12 17 25.3	0.5	1.8				
	DUG	eP*		20 55 35.3	0.6	12.6				Bingham blast.
	PCU	eP		23 07 50.3			170			Near Orange Cliffs, Utah.
		ePg		23 08 07.8						
		eL		23 08 31.8						
	DUG	eP		23 08 10.2						
	UBO	eP		23 08 14.7	0.4	6.5	247	SW		
		eLg		23 08 42.1						
29	PCU	eP		04 03 03.7			45			Probable rockburst near Sunnyside, Utah.
		ePg		04 03 10.8						
		eR		04 03 20.8						
	UBO	eP		04 03 16.7	0.5	4.0	122	195		
		eS		04 03 31.5						
	FGU	ePn		04 03 26.6			212			
		eLg		04 03 54.8						
	DUG	eP		04 03 35.8			312			
		eL		04 04 13.7						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Aziz (deg)	Mag	Remarks
Aug 29 (con't)	PCU	eP		07 59 23.8			45			Probable rockburst near Sunnyside, Utah Mag. 2.6 (UBO).
		ePg		07 59 31.8						
		eR		07 59 41.8						
	UBO	eP		06 59 37.0	0.4	2.8	130	SW	2.6	
		ePg		06 59 41.1						
		eS		06 59 52.5						
		eSg		06 59 57.5						
		eSur		07 00 02.0						
	FGU	ePn		06 59 44.3			230			
		eLg		07 00 14.3						
	DUG	eP		06 59 55.2	0.5	1.8				
	DUG	eP*		21 05 06.7	0.6	13.4				Bingham blast.
30	DUG	eP		13 18 47.9			831		4.6	Central California 36.9 N, 121.4 W 13 16 50.7 h = 10 km Mag. 4.6.
	DUG	eP*		20 53 40.7	0.6	11.1				Bingham blast.
31	CCU	eP		02 21 28.8			100			*North of Beaver, Utah 38.30 N, 112.64 W 02 21 16.3 h = 20 km Mag. 2.7 (4 sta).
		ePg		02 21 34.5						
		eL		02 21 38.7						
	PCU	ePg		02 21 44.9			167			
		eL		02 22 07.9						
	DUG	ePn		02 21 47.0	0.5	2.7	273		*2.7	
		ePg		02 21 59.3						
		eSn		02 22 19.0						
		eLg		02 22 23.3						
	UBO	eP		02 22 07.5	0.5	3.1	350	SW		
		eS		02 22 46.2						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Aug 31 (con't)	CCU	eP		03 06 05.8			100			*Southeast of Beaver, Utah 38.23 N, 112.53 W
		ePg		03 06 12.9						03 05 53.4 h = 20 km Mag. 3.1 (5 sta
		eL		03 06 18.4						Felt.
	PCU	ePn		03 06 22.8			167			
		ePg		03 06 33.1						
		eL		03 06 45.7						
	DUG	ePn		03 06 25.0	0.5	8.9	260		*3.1	
		ePg		03 06 31.3						
		eSn		03 06 54.5						
		eLg		03 07 00.0						
	UBO	eP		03 06 41.5	0.3	0.6	323			
		ePg		03 06 44.8						
		eS		03 07 23.1						
	FGU	ePn		03 06 51.5			356			
		ePg		03 06 58.6						
		eSn		03 07 39.0						
		eLg		03 07 42.0						
	DUG	ePn		04 58 07.3			722			Regional.
		eLg		04 59 54.5						
	DUG	ePn		09 23 38.5	0.5	4.5	267		*3.0	Local Mag. 3.0 (U. of U.).
		ePg		09 23 44.5						
		eSn		09 24 11.9						
		eLg		09 24 14.0						
	CCU	ePn		09 23 55.5			390			
		eL		09 24 50.5						
	DUG	ePn		12 14 55.3			821		4.3	Northern California 38.1 N, 121.9 W
		eL		12 16 54.0						12 12 58.7 h = 5 km Mag. 4.3 (CGS),
										3.6 (BRK).
										Felt at Pittsburg and Concord.
	DUG	ePn		20 44 32.1			501			Regional.
		eLg		20 45 43.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Aug 31 (con't)	PCU	eP		21 08 52.1				80			Green River Desert, Utah.
		ePg		21 08 55.5							
		eL		21 09 01.2							
	FGU	ePn		21 08 58.8				184			
		ePg		21 09 00.8							
		eSn		21 09 19.8							
		eLg		21 09 22.5							
	UBO	eP		21 09 02.9	0.3		9.6	200	ESE		
		eS		21 09 29.6							
	DUG	ePn		21 09 14.3				267			
		eLg		21 09 47.5							
	FGU	ePn		21 24 35.7				267			Central Wyoming.
		eLg		21 25 10.8							
	UBO	eP		21 24 41.1	0.4		3.8	278	NE		
		eS		21 25 17.6							
	DUG	ePn		21 25 25.5				289			
		ePg		21 25 32.5							
	DUG	ePn		21 29 00.5				494			Local.
		eLg		21 30 12.0							
Sept 1	SLC	eP		08 59 43.9				100			Near Kamas, Utah Mag. 2.5 (U. of U.).
		ePg		08 59 50.8							
		eL		08 59 54.6							
	PCU	eP		08 59 49.7				150			
		eLg		08 00 09.6							
	UBO	eLg		08 59 56.9	0.3		4.4	132	270	2.9	
		eSg		09 00 13.7							
		eSur		09 00 16.6							
	FGU	ePn		08 59 58.7				156			
		eLg		09 00 18.8							
	DUG	ePn		09 00 00.0	0.5		5.3	145		*2.5	
		eSn		09 00 17.0							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 1 (con't)	PCU	ePn		10 52 29.0			145			Local.
		ePg		10 52 36.7						
		eL		10 52 46.2						
	UBO	eP		10 52 42.1	0.5	0.9	154	SE		
		ePg		10 52 46.5						
		eS		10 52 01.1						
		eSg		10 53 05.3						
	CCU	ePn		11 52 28.0			134			Utah 37.48 N, 113.75 W 11 52 16.95
		ePg		11 52 34.2						h = 5 km Mag. 4.1 (CGS),
		eL		11 52 43.7						3.5 (U. of U.).
	DUG	ePn		11 53 08.9	0.7	9.5	318		*3.5	
		ePg		11 53 13.7						
		eSn		11 53 47.7						
		eLg		11 53 51.9						
	PCU	eP		11 53 13.2			412			
		ePg		11 53 55.0						
		eL		11 54 14.7						
	UBO	eP		11 53 29.1	0.5	0.9	477	SW	3.5	
		ePg		11 53 36.3						
		eLg		11 54 32.1						
	CCU	ePn		12 19 54.5			135			*Cedar City, Utah 37.67 N, 113.13 W
		ePg		12 19 59.2						12 19 53.0 h = 20 km Mag. 3.0 (4 sta)
		eL		12 20 11.0						
	DUG	ePn		12 20 33.0	0.7	3.2	318		*3.0	
		ePg		12 20 38.0						
		eSn		12 21 11.5						
		eLg		12 21 15.9						
	PCU	ePn		12 20 33.0			345			
		ePg		12 20 41.2						
		eL		12 21 17.5						
	UBO	eP		12 20 53.7	0.4	0.8	477	SW		
		ePg		12 21 01.1						
		eLg		12 21 56.9						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 1 (con't)	DUG	ePn		14 28 03.0	0.7	1.6		478			Local Mag. 3.8 (UBO).
		ePg		14 28 12.9							
		eLg		14 29 12.3							
	UBO	eP		14 28 21.5	0.7	1.5		616	NW	3.8	
		ePg		14 28 35.2							
		eLg		14 29 47.6							
	DUG	ePn		20 45 34.9				745			Regional.
		eLg		20 48 08.0							
	CCU	eP		21 26 22.1				440			Local.
		ePg		21 26 46.5							
		eL		21 27 25.3							
	DUG	ePn		21 27 05.7				578			
		eLg		21 28 32.0							
2	UBO	eP		19 36 22.1	0.3	4.6		199	NW	3.3	Local Mag. 3.3 (UBO).
		ePg		19 36 22.9							
		eLg		19 36 45.8							
	DUG	eP		19 36 35.6							
	DUG	eP*		20 53 05.2	0.6	23.7					Bingham blast.
	PCU	eP*		20 53 20.5							
	UBO	eP		20 53 30.1	0.4	4.7					
3	FGU	ePn		08 57 32.1				267			*South end of Bear Lake, Utah (4 sta)
		eLg		08 58 08.1							41.87 N, 111.30 W 08 57 03.8
	UBO	eP		08 57 35.8	0.3	0.6		299	NW	2.9	h = 20 km Mag. 2.7.
		ePg		08 57 42.4							
		eS		08 58 10.7							
		eLg		08 58 16.3							
	DUG	ePn		08 57 36.3	0.5	2.7		256		*2.7	
		eLg		08 58 10.0							
	PCU	ePn		08 57 40.5				330			
		eL		08 58 25.0							
	DUG	ePn		15 29 56.0	0.5	3.6		178			Local.
		ePg		15 29 57.9							
		eSn		15 30 16.7							
		eLg		15 30 18.5							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 3	DUG	eP*		20 56 10.1	0.5	10.7				Bingham blast.
(con't)	DUG	eP		23 11 46.1						Local.
	UBO	eP		23 12 04.8	0.3	0.4	289	NW		
		ePg		23 12 13.0						
		eLg		23 12 42.7						
4	DUG	eP*		17 43 19.1	0.6	11.9				Bingham blast.
	DUG	eP*		21 56 58.3	0.6	15.0				Bingham blast.
5	DUG	eP		21 20 52.0	0.6	11.1				Bingham blast.
6	CCU	eP		03 25 16.5			334			Local.
		ePg		03 25 21.2						
		eL		03 26 05.7						
	DUG	ePn		03 25 32.9	0.7	1.6	440			
		eLg		03 26 36.0						
	DUG	eP		04 16 01.1					5.6	East Kazakh SSR 49.8 N, 78.1 E
										04 02 57.4 h = 0 km Mag. 5.6.
	CCU	eP		13 12 56.3			351			Local.
		ePg		13 13 02.2						
		eL		13 13 45.5						
	DUG	ePn		13 13 15.0	0.9	5.9	451			
		ePg		13 13 24.7						
		eLg		13 14 15.5						
	DUG	ePn		16 01 07.1	0.7	2.4	412			Local.
		ePg		16 01 15.5						
		eLg		16 02 06.0						
	DUG	iP*	C	20 57 59.0	0.5	16.9				Bingham blast.
7	DUG	ePn		09 26 08.9	0.7	2.4	429			Local.
		ePg		09 26 16.9						
		eSn		09 27 07.5						
		eLg		09 27 10.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 7 (con't)	PCU	ePn		14 29 05.7			256			Southeast of Escalante, Utah.
		ePg		14 29 12.4						
		eL		14 29 39.7						
	DUG	ePg		14 29 13.5			345			
		eLg		14 29 52.9						
	UBO	eP		14 29 17.8	0.4	0.6	320			
		eS		14 30 03.0						
9	GMU	iP	C	09 11 51.7	0.2	15.0	26	SW		Local.
		eS		09 11 54.8	0.2	16.0				
	DUG	eP*		20 56 59.4	0.6	15.8				Bingham blast.
	SLC	eP		23 37 04.1			56			Near Coalville, Utah.
		eL		23 37 09.1						
	GMU	eP*		23 37 05.0	0.2	40.0				
	DUG	ePg		23 37 21.1	0.7	1.6	145			
		eSn		23 37 37.5						
10	GMU	eP		23 37 21.9			25			Near Park City, Utah Mag. 2.0 (U. of U.).
		eS		23 37 25.4						
	SLC	eP		23 37 23.4			45			
		eL		23 37 26.9						
	DUG	ePn		23 37 37.1			134		*2.0	
		eSn		23 37 52.9						
	DUG	ePn		23 47 39.7			701			Regional.
		eLg		23 49 40.3						
11	SLC	eP		00 26 40.9			60			Near Park City, Utah Mag. 2.0 (U. of U.).
		eL		00 26 46.5						
	GMU	iP	C	00 26 43.1			47			
		eS		00 26 49.1						
	DUG	ePn		00 26 57.3			145.		*2.0	
		ePg		00 26 59.5						
		eSn		00 27 13.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 11	PCU	eP		01 16 03.2			45			*South of Duchesne, Utah 39.97 N, 110.42 W
		ePg		01 16 11.2						01 16 01.3 h = 0 km Mag. 2.0. (4 sta)
		eL		01 16 15.2						
	UBO	eP		01 16 15.2	0.4	1.2	161	SSW		
		ePg		01 16 19.7						
		eLg		01 16 34.3						
	GMU	ePn		01 16 23.0	0.3	14.0	167			
		ePg		01 16 25.1						
		eSn		01 16 42.3						
		eLg		01 16 45.4	0.5	12.0				
	FGU	ePn		01 16 24.9			184			
		ePg		01 16 27.3						
		eSn		01 16 45.3						
		eLg		01 16 49.3						
	DUG	ePg		01 16 33.5	0.7	1.6	278		*2.0	
		eLg		01 17 03.9						
	DUG	eP		03 19 38.5	1.5	21.8			4.6	Off Coast of Oregon 42.2 N, 126.6 W
	GMU	eP		03 19 48.3	1.5	7.0				03 17 06.3 h = 33 km Mag. 4.6.
	GMU	iP	C	05 20 29.3			34	360		Local.
		eS		05 20 33.2						
	GMU	eP		05 29 47.4	0.2	50.0	47	360		Local. .
		eS		05 29 53.3						
	DUG	ePn		08 41 27.0			534			Regional.
		eLg		08 42 45.0						
	UBO	eP		08 40 51.5	0.2	2.0	215	ESE		Western Colorado.
		ePg		08 40 52.5						
		eLg		08 41 17.2						
	PCU	ePn		08 41 08.9			300			
		ePg		08 41 12.8						
		eL		08 41 49.5						
	GMU	ePn		08 41 21.4	2.4	7.0	323			
		ePg		08 41 26.5						
		eLg		08 42 05.3						
	DUG	ePn		14 01 02.7			340			Local.
		ePg		14 01 06.3						
		eSn		14 01 39.9						
		eLg		14 01 43.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 11 (con't)	DUG	ePn		15 22 20.0	0.7	1.6	618			Regional.
		eLg		15 23 51.7						
	DUG	ePg		18 13 31.0	0.5	0.9	345			Local.
		eLg		18 14 10.1						
	DUG	ePn		23 18 54.3	0.5	1.6	300			Local.
		eLg		23 19 35.3						
	GMU	ePn		23 29 05.1	0.5	6.0	234			Local.
		eLg		23 29 36.4						
	DUG	ePn		23 29 10.9	0.5	1.6	384			
		eSn		23 29 57.0						
		eLg		23 30 03.5						
	SLC	eP		23 43 02.5			56			Near Salt Lake City, Utah Mag. 2.0 (U. of U.
		ePg		23 43 06.0						
		eL		23 43 07.8						
	GMU	eP*		23 43 03.4						
	DUG	ePn		23 43 18.3	0.7	1.6	212		*2.0	
		eLg		23 43 35.9						
12	GMU	ePn		06 05 07.8	0.4	7.0	183			Local.
		eLg		06 05 30.8						
	FGU	ePn		09 50 32.3			223			Local.
		eLg		09 51 00.5						
	GMU	ePn		09 51 05.2	0.4	5.0	329			
		eLg		09 51 49.9						
	DUG	ePn		11 06 51.7			712			Regional.
		ePg		11 07 10.5						
		eLg		11 07 56.0						
	DUG	ePn		14 11 58.7			777		4.5	Southern California 34.2 N, 117.5 W
		ePg		14 12 21.1						14 10 10.5 h = 11 km Mag. 4.5 (CGS),
		eLg		14 13 54.5						3.9 (PAS).
	GMU	ePn		14 12 10.7	0.6	4.0	701	SW		Felt in San Bernardino-Los Angeles area.
		ePg		14 12 38.8						
		eLg		14 14 15.6						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 12 (con't)	DUG	ePn		14 32 38.3	0.7	52.1	777		5.4	Southern California 34.3 N, 117.5 W
		eLg		14 34 32.5						14 30 51.9 h = 9 km Mag. 5.4 (CGS),
	GMU	ePn		14 32 50.3			701	215		5.5 (PAS), 5.4 (BRK).
		ePg		14 33 22.8						Four minor injuries at Riverside. Slig
		eLg		14 34 54.5						damage. Felt widely in Southern Calif.
	DUG	ePn		18 28 30.7	0.5	1.6	777		4.0	Southern California 34.3 N, 117.5 W
		eLg		18 30 07.5						18 16 38.0 h = 8 km Mag. 4.0.
	DUG	eP*		21 04 14.9	0.5	13.4				Bingham blast.
13	DUG	ePn		04 49 34.9	0.9	5.9	777	WSW	*4.9	Southern California 34.3 N, 117.5 W
		ePg		04 49 58.5						04 47 47.7 h = 11 km Mag. 4.7 (CGS),
		eL		04 51 31.0						4.4 (PAS), 4.3 (BRK), 4.9 (U. of U.).
										Felt in San Bernardino Area.
	DUG	eP		21 12 39.5		51.0	1043		*5.4	Off Coast of Northern California
										40.2 N, 125.1 W 21 10 23.0 h = 33 km
										Mag. 5.4 (CGS), 5.2 (BRK), 5.4
										(U. of U.).
14	PCU	eP		00 41 12.2			45			Probable rockburst near Sunnyside, Utah.
		ePg		00 41 19.7						
		eR		00 41 26.9						
	UBO	eP		00 41 24.8	0.5	3.1	128	SSW		
		eS		00 41 40.2						
	FGU	ePn		00 41 35.3			206			
		eLg		00 42 02.1						
	DUG	ePn		00 41 43.3	0.7	1.6	229			
		ePg		00 41 47.0						
		eLg		00 42 13.3						
	CCU	eP		13 26 08.5			267			Local Mag. 3.2 (U. of U.).
		ePg		13 26 13.6						
		eL		13 26 43.5						
	DUG	ePn		13 26 09.0	0.5	8.9	278		*3.2	
		ePg		13 26 14.0						
		eSn		13 26 41.9						
		eLg		13 26 45.7						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 14	GMU	eP		21 06 33.6						Bingham blast.
(con't)	DUG	iP*	C	21 06 36.5	0.5	31.2				
15	GMU	eP		06 17 29.1			100			Near Randolph, Utah.
		eL		06 17 41.0						
	FGU	ePn		06 17 56.1			200			
		eLg		06 18 22.0						
	DUG	ePn		06 18 01.9			245			
		ePg		06 18 04.0						
		eL		06 18 35.4						
	DUG	eP*		20 54 13.5	0.6	12.6				Bingham blast.
16	UBO	eP		07 44 05.3	0.4	1.2	162	SW	2.4	Near Woodside, Utah Mag. 2.4 (UBO).
		ePg		07 44 09.1						
		eS		07 44 22.4						
		eSg		07 44 29.2						
		eSur		07 44 33.3						
	GMU	ePn		07 44 15.4	0.4	4.0	184			
		eLg		07 44 39.0	0.5	4.0				
	DUG	eP*		20 51 13.2	0.6	11.1				Bingham blast.
	CCU	eP		22 18 08.2			290			Northern Arizona Mag. 3.8 (U. of U.).
		ePg		22 18 20.1						
		eL		22 18 47.9						
	UBO	ePn		22 18 44.5	0.3	2.0	493	SSW	4.0	
		eP*		22 18 56.8						
		ePg		22 18 59.8						
		eS		22 19 44.7						
		eLg		22 19 57.2						
	DUG	eP		22 18 53.5	0.7	1.6			*3.8	
	GMU	ePn		22 18 59.3	0.4	6.0	445			
		eLg		22 20 02.3						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 17	SLC	eP		00 42 50.5			60			*East of Salt Lake City, Utah
		ePg		00 42 53.5						40.71 N, 111.77 W 00 42 49.4
		eL		00 42 56.5						h = 0 km Mag. 2.1 (5 sta).
	GMU	iP	C	00 42 52.1			31	NE		
		eS		00 42 55.8						
	DUG	ePn		00 43 07.7	0.5	4.5	145		*2.1	
		ePg		00 43 09.3						
		eSn		00 43 24.5						
		eLg		00 43 26.7						
	UBO	eP		00 43 20.0	0.4	1.2	178	WNW		
		eLg		00 43 43.3						
	FGU	ePn		00 43 21.0			183			
		eLg		00 43 45.0						
	UBO	eP		00 52 05.3	0.5	1.8	167	SW	2.5	Near Green River, Utah Mag. 2.5 (U. of U.).
		ePg		00 52 09.3						
		eS		00 52 20.7						
		eSg		00 52 29.3						
		eSur		00 52 33.3						
	GMU	ePn		00 52 10.6	0.5	4.0	223			
		ePg		00 52 14.2						
		eSn		00 52 34.1						
		eLg		00 52 39.0						
	FGU	ePn		00 52 15.7			200			
		eLg		00 52 42.1						
	DUG	ePn		15 16 55.5	0.5	0.9	278			Local.
		ePg		15 17 01.0						
		eLg		15 17 33.1						
	DUG	ePn		17 51 45.5	0.7	2.4	578			Regional.
		ePg		17 51 57.0						
		eLg		17 53 11.5						
	DUG	eP*		20 56 29.0	0.5	17.8				Bingham blast.
	FGU	ePn		23 37 58.3			200			Western Colorado.
		eLg		23 38 24.3						
	UBO	ePn		23 37 59.0	0.6	4.5	189	SE		
		ePg		23 38 01.2						
		eLg		23 38 23.9						
	GMU	ePn		23 38 25.8	0.5	0.5	340			
		ePg		23 38 32.0						
		eLg		23 39 12.6						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 17 (con't)	CCU	ePn		23 48 47.7				170			Local.
		ePg		23 48 53.5							
		eL		23 49 11.3							
	DUG	ePn		23 49 24.5				345			
		eLg		23 50 13.3							
18	DUG	eP*		20 50 35.7	0.5	11.6					Bingham blast.
	DUG	ePn		21 56 50.5	0.5	9.8		229		*3.3	*North of Garrison, Utah 39.07 N, 113.84 W
		ePg		21 56 55.5							21 56 34.4 h = 20 km Mag. 3.3 (4 st
		eSn		21 57 18.7							
		eLg		21 57 21.3							
	CCU	ePn		21 56 57.5				267			
		ePg		21 57 02.5							
		eL		21 57 32.5							
	GMU	ePg		21 57 14.4				334			
		eLg		21 57 50.6							
	UBO	eP		21 57 28.0	0.2	1.3			E		
		eS		21 58 35.0							
19	UBO	ePn		05 26 26.4	0.5	0.3		189	SSW		Near Green River, Utah.
		ePg		05 26 30.2							
		eL		05 26 50.3							
	GMU	ePg		05 26 36.8	0.4	6.0		200			
		eLg		05 26 58.7							
	UBO	ePn		06 29 59.5	0.4	1.0		160	SSW		Near Green River, Utah.
		ePg		06 30 01.7							
		eLg		06 30 19.9							
	GMU	ePg		06 30 08.4	0.4	7.0		212			
		eLg		06 30 32.2							
	FGU	ePn		06 30 09.7				189			
		eLg		06 30 34.5							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 19 (con't)	UBO	ePn		07 26 07.7	0.5	0.6		189	SSW		Local.
		ePg		07 26 10.8							
		eSn		07 26 29.2							
		eLg		07 26 33.4							
	GMU	ePn		07 26 16.4	0.4	6.0		162	135		
		ePg		07 26 18.0							
		eL		07 26 37.0							
	FGU	ePg		07 26 19.1				200			
		eLg		07 26 42.0							
	CCU	eP		16 28 42.2				412			California-Nevada Border Region
		ePg		16 28 50.3							37.02 N, 117.88 W 16 27 27.7
		eL		16 29 41.2							h = 10 km Mag. 3.8 (BRK).
	DUG	ePn		16 28 56.3	0.7	4.0		501			
		ePg		16 29 11.3							
		eLg		16 30 09.3							
	UBO	ePn		16 29 23.4	0.5	0.4		722			
		ePg		16 29 45.6							
		eSur		16 31 13.2							
	DUG	eP*		20 56 34.9	0.5	12.5					Bingham blast.
20	GMU	eP		00 28 19.6	0.6	14.0					Regional.
	UBO	ePn		00 28 20.5	0.4	0.4		456	NNW		
		eP*		00 28 26.5							
		ePg		00 28 31.8							
		eSn		00 29 05.5							
		eLg		00 29 25.0							
	DUG	eP		00 28 21.0							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 20 (con't)	LOG	ePn		06 35 47.2			260			Yellowstone National Park, Wyoming
		ePg		06 35 53.0						44.7 N, 110.4 W 06 34 57.3
		eLg		06 36 25.0						h = 10 km Mag. 4.2.
	FGU	ePn		06 35 56.1			272			
		eLg		06 36 32.0						
	DUG	eP		06 36 03.5					4.2	
	GMU	ePn		06 36 04.8	0.6	45.0	456	360		
		ePg		06 36 17.4						
		eLg		06 37 10.1						
	UBO	eP		06 36 04.8	0.6	1.5	487	NNW		
		ePg		06 36 16.3						
		eLg		06 37 04.6						
	SLC	eP		06 36 12.7						
	UBO	eP		06 39 41.4	0.4	2.8	456			Local.
		ePg		06 39 51.3						
		eLg		06 40 43.1						
	GMU	ePn		06 39 46.5	0.5	8.0				
	LOG	ePn		06 41 41.2			260			Yellowstone National Park, Wyoming
		ePg		06 41 44.3						44.6 N, 110.4 W 06 40 50.0
		e(L)		06 42 18.2						h = 15 km.
	FGU	ePn		06 41 55.0			200			
		eLg		06 42 20.5						
	UBO	ePn		06 41 56.3	0.4	0.4	456			
		e		06 41 59.8						
		ePg		06 42 07.8						
		eLg		06 43 03.1						
	DUG	eP		06 41 56.5						
	GMU	ePn		06 41 57.2	0.6	20.0	456			
		ePg		06 42 09.4						
		eLg		06 43 01.4						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 20 (con't)	LOG	ePn		06 53 34.5				150			Central Idaho.
		ePg		06 53 47.7							
		eLg		06 53 54.3							
	FGU	ePn		06 53 43.5				323			
		e(Lg)		06 54 28.5							
	GMU	ePn		06 53 51.4				423			
		ePg		06 54 10.1							
		eLg		06 54 51.5							
	UBO	ePn		06 53 51.4	0.4		0.4	667	NNW		
		e(P*)		06 54 02.6							
		ePg		06 54 13.3							
		eLg		06 55 03.6							
	DUG	eP		06 54 02.3							
	UBO	eP		07 01 33.0	0.5		1.5	456	NNW		Local.
		ePg		07 01 41.1							
		eLg		07 02 34.6							
	GMU	ePn		07 01 34.4							
		ePg		07 01 40.7							
		e(Lg)		07 02 16.2							
	UBO	ePn		07 14 24.2	0.3		7.8	156	210	3.1	*Southwest of Green River, Utah
		ePg		07 14 26.0							38.90 N, 110.42 W 07 13 58.6
		eLg		07 14 41.2							h = 20 km Mag. 3.1 (UBO). (4 sta).
	GMU	ePn		07 14 30.2	0.3		24.0	200	158		
		ePg		07 14 33.0							
		eSn		07 14 52.0							
		eLg		07 14 57.3							
	FGU	ePg		07 14 33.5				212			
		eLg		07 14 58.3							
	CCU	eP		07 14 36.5				156			
		ePg		07 14 45.0							
		eL		07 14 55.7							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 20 (con't)	LOG	ePn		07 37 05.0				170			Yellowstone National Park, Wyoming
		ePg		07 37 07.9							44.6 N, 110.6 W 07 36 13.6 h = 15 km
		eL		07 37 29.2							Mag. 4.0.
	FGU	ePn		07 37 09.5				229			
		eLg		07 37 40.0							
	GMU	ePn		07 37 21.0				456	360	4.0	
		ePg		07 37 30.4							
		eLg		07 38 21.5							
	UBO	ePn		07 37 21.5	0.3		0.6	456	NNW		
		eP*		07 37 27.3							
		ePg		07 37 32.6							
		eLg		07 38 26.0							
	DUG	eP		07 37 25.2						4.0	
	SLC	eP		07 37 26.0							
		e(L)		07 38 22.7							
	FGU	ePn		15 55 46.0				272			Southwestern Wyoming.
		eLg		15 56 21.5							
	GMU	ePn		15 55 50.4	0.1		12.0	283			
		ePg		15 55 55.3							
		eLg		15 56 28.4							
	UBO	eP		15 55 55.3	0.3		0.4	394			
		eLg		15 56 35.2							
	DUG	ePn		15 56 00.6				367			
		ePg		15 56 10.1							
		eL		15 56 51.2							
	GMU	ePg		16 42 42.0				300			Local.
		eLg		16 43 16.2							
	UBO	eP		16 42 46.0	0.3		0.6				
		eLg		16 43 22.6							
	DUG	eP*		20 54 59.6	0.6		11.1				Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 21	FGU	ePn		07 05 18.5							Wyoming 43.117 N, 110.759 07 04 36.9
	SLC	ePn		07 05 18.8				300			h = 15 km Mag. 4.4 (NOAA),
		ePg		07 05 33.6							3.7 (U. of U.).
		eL		07 06 00.0							
	GMU	ePn		07 05 22.4				340			
		ePg		07 05 29.7							
		eSn		07 06 03.0							
		eLg		07 06 08.8							
	UBO	ePn		07 05 24.5	0.8		5.9	345	NNW	3.7	
		ePg		07 05 35.2							
		eLg		07 06 11.7							
	DUG	ePn		07 05 30.9	0.9		7.9	340		*3.7	
		ePg		07 05 33.9							
		eL		07 06 15.5							
	CCU	eP		07 06 02.5				523			
		ePg		07 06 25.5							
		eL		07 07 26.5							
	GMU	ePg		07 18 43.2				167			Local.
		eLg		07 19 03.2							
	UBO	eP		07 18 50.7	0.4		0.4	378			
		ePg		07 18 54.5							
		eLg		07 19 46.0							
	GMU	ePn		08 55 56.4				184			Local.
		ePg		08 56 21.0							
	UBO	eP		08 56 02.9	0.3		0.4				
		eSur		08 56 23.5							
	DUG	eP		10 17 36.6	0.6		1.6	200		*2.0	Local Mag. 2.0 (U. of U.).
		eL		10 17 56.5							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 21 (con't)	LOG	ePn		10 18 15.0				245			Southern Idaho.
		ePg		10 18 16.9							
		eL		10 18 42.2							
	FGU	ePn		10 18 20.7				278			
		eLg		10 18 58.0							
	UBO	ePn		10 18 29.0	0.3		0.8	501	NNW		
		ePg		10 18 43.1							
		eLg		10 19 40.4							
	GMU	ePn		10 18 32.0				478			
		ePg		10 18 40.4							
		eLg		10 19 34.8							
	SLC	ePg		10 18 37.1				456			
		eL		10 19 28.9							
	FGU	ePn		11 53 52.0				272			West Central Wyoming.
		eLg		11 54 28.0							
	GMU	ePn		11 53 55.5				345			
		ePg		11 54 08.0							
		eLg		11 54 33.8							
	UBO	ePn		11 53 57.8	0.3		0.4	378			
		ePg		11 54 06.0							
		eLg		11 54 43.4							
	FGU	ePn		11 58 45.9				251			Local.
		e(Lg)		11 59 19.0							
	GMU	ePn		11 58 52.6				267			
		eLg		11 59 28.4							
	DUG	eP		11 59 02.3							
	FGU	ePn		11 59 31.0				245			West Central Wyoming.
		eLg		12 00 04.0							
	UBO	ePn		11 59 36.3	0.4		0.8	378			
		ePg		11 59 44.6							
		eLg		12 00 20.0							
	GMU	ePg		11 59 36.5				323			
		eLg		12 00 12.0							
	DUG	eP		12 00 02.5							
		eL		12 00 34.2							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 21 (con't)	CCU	ePg		15 00 37.5			300			Southern Nevada 37.3 N, 116.6 W
		eL		15 01 11.0						14 59 40.9 h = 5 km.
	DUG	ePn		15 00 58.0	0.4	2.1	378			
		ePg		15 01 07.5						
		eL		15 01 51.5						
	UBO	eP		15 01 39.0	0.7	1.7				
		eSur		15 02 57.6						
	DUG	eP*		21 18 29.9	0.6	11.9				Bingham blast.
	GMU	ePg		23 41 05.9	0.4	9.0	245			Southern Idaho.
		eLg		23 41 33.1						
	DUG	ePn		23 41 10.5	0.5	0.9	300			
		eL		23 41 52.3						
	UBO	eP		23 41 15.3	0.5	0.9				
		eSur		23 41 54.8						
	PCU	eP		23 47 56.1			45			South of Sunnyside, Utah.
		ePg		23 48 00.0						
		eL		23 48 07.2						
	GMU	ePn		23 48 08.3	0.5	8.0	212	180		
		eLg		23 48 31.8						
	UBO	ePn		23 48 11.8	0.3	1.0	256			
		ePg		23 48 13.1						
		eSur		23 48 36.3						
22	PCU	eP		00 04 52.1			111		*2.2	Near Green River, Utah Mag. 2.2 (U. of U.).
		eL		00 05 05.2						
	UBO	ePn		00 05 00.0	0.4	5.9	170			
		ePg		00 05 01.6						
		eLg		00 05 23.7						
	GMU	ePn		00 05 06.7	0.4	14.0	212			
		ePg		00 05 10.0						
		eLg		00 05 35.4						
	FGU	ePn		00 05 10.3			229			
		eLg		00 05 39.9						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 22 (con't)	DUG	ePn		18 10 12.5				634			Regional.
		ePg		18 10 24.5							
		eLg		18 11 38.9							
	DUG	e(Pn)		18 59 14.3				378			Local.
		ePg		18 59 21.5							
		eLg		19 00 03.9							
	SLC	eP*		20 52 42.3							Bingham blast.
	DUG	iP*	C	20 52 45.5	0.5	22.3					
	CCU	eP		20 52 57.5							
	PCU	ePn		20 52 59.8							
	UBO	ePn		20 53 10.3							
	FGU	ePn		20 53 12.0							
	PCU	eP		20 59 01.5				134			*North of Mountain Home, Utah (4 sta)
		eL		20 59 17.5							40.56 N, 110.60 W 20 58 48.3
	FGU	ePn		20 59 01.3				162			h = 20 km Mag. 2.5.
		eLg		20 59 22.0							
	UBO	ePn		20 59 09.2	0.3	8.4		189			
		eP*		20 59 09.8							
		ePg		20 59 10.6							
		eLg		20 59 33.0							
	DUG	ePn		20 59 18.9	0.5	4.5		273		*2.5	
		ePg		20 59 24.0							
		eSn		20 59 48.0							
		eLg		20 59 55.3							
	UBO	ePn		22 01 29.5	0.3	3.6		240			Southwestern Colorado Mag. 3.5 (U. of U.).
		eP*		22 01 30.1							
		ePg		22 01 33.0							
		eLg		22 01 59.9							
	GMU	e(Pn)		22 01 36.2	0.2	16.0		300			
		ePg		22 01 46.2							
		eLg		22 02 20.0							
	DUG	ePn		22 01 48.1	0.7	1.6		451		*3.5	
		ePg		22 01 55.9							
		eLg		22 02 52.5							
	DUG	ePn		22 43 29.0	1.0	2.5		429			Local.
		ePg		22 43 38.5							
		eLg		22 44 30.0							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 22 (con't)	UBO	eP		23 49 20.8	0.6	1.5					Local.
		eLg		23 50 13.1							
	DUG	ePn		23 49 22.3	0.5	0.9		289			
		eLg		23 50 10.5							
	DUG	ePn		04 57 03.9	0.5	3.6		245			Local.
		ePg		04 57 08.1							
		eSn		04 57 32.5							
		eLg		04 57 36.0							
	GMU	ePn		04 57 20.8	0.4	2.0		323			
		ePg		04 57 25.6							
		eLg		04 58 02.2							
23	PCU	eP		05 36 22.0				45			Probable rockburst near Sunnyside, Utah.
		ePg		05 36 28.8							
		eR		05 36 39.0							
	UBO	eP		05 36 34.1	0.5	1.8		122	SW		
		eSur		05 36 49.3							
	GMU	ePg		05 36 44.1	0.4	13.0		200			
		eLg		05 37 07.4							
	FGU	ePn		05 36 43.9				206			
		eLg		05 37 11.1							
	CCU	ePn		08 35 00.5				645	4.3		Southern California 34.0 N, 118.3 W
		ePg		08 35 07.7							08 33 33.0 h = 10 km Mag. 4.3 (CGS),
		eL		08 36 34.2							4.2 (PAS).
	DUG	ePn		08 35 26.9	0.7	1.6		701			Felt in West Los Angeles area.
		ePg		08 35 56.5							
		eLg		08 37 33.0							
	GMU	ePn		08 35 41.8				712			
		ePg		08 36 12.0							
		eLg		08 37 57.6							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 23 (con't)	GMU	eP		11 36 55.8				67	023		*East of Huntsville, Utah 41.25 N, 111.42 W 11 36 42.1 h = 0 km Mag. 2.1 (5 sta).
		eS		11 37 04.8							
	DUG	ePn		11 37 09.0	0.5	2.7		178		*2.1	
		eLg		11 37 32.3							
	FGU	ePn		11 37 09.9				156			
		eSn		11 37 28.3							
	UBO	eP		11 37 11.6	0.3	4.0		187			
		eSur		11 37 32.5							
	PCU	eP		11 37 12.5				156			
		eL		11 37 32.5							
	DUG	eP*		20 52 48.3	0.5	13.4					Bingham blast.
	DUG	ePn		22 52 30.3	0.5	1.8		334			Local.
		eLg		22 53 16.0							
24	DUG	eP*		17 40 53.6	0.6	14.2					Bingham blast.
	UBO	ePn		18 11 06.3	0.4	1.6		212	SSW		Local Mag. 2.0 (U. of U.).
		ePg		18 11 10.2							
		eLg		18 11 30.0							
	DUG	ePn		18 11 54.1				356		*2.0	
		ePg		18 12 02.7							
		eL		18 12 52.8							
	DUG	ePn		19 05 03.5				423			Local.
		ePg		19 05 12.8							
		eL		19 06 01.0							
	PCU	eP		21 39 54.8				45			South of Sunnyside, Utah.
		ePg		21 39 59.8							
		eL		21 40 06.3							
	UBO	eP		21 40 19.3	0.5	4.7					
		eLg		21 40 40.5							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 25	PCU	ePn		00 39 00.8			145			Near San Rafael Swell, Utah Mag. 2.0 (U. of U.).
		eP*		00 39 03.2						
		ePg		00 39 10.7						
		eL		00 39 20.2						
	UBO	eP		00 39 15.8	0.5	2.6	189	SSW		
		e		00 39 19.6						
		e		00 39 30.9						
		eLg		00 39 39.7						
	GMU	e(Pn)		00 39 24.7	0.4	18.0				
		ePg		00 39 26.9			212			
		eLg		00 39 49.4						
	FGU	ePn		00 39 28.0			156			
		eLg		00 39 47.9						
	DUG	ePn		00 39 35.0	0.5	1.8	229		*2.0	
		eLg		00 40 04.7						
	PCU	ePn		03 27 00.3			145			Near Emery, Utah Mag. 2.6 (UBO).
		ePg		03 27 08.8						
		eL		03 27 19.3						
	UBO	eP		03 27 13.6	0.5	2.0	210	212	2.6	
		ePg		03 27 17.4						
		eLg		03 27 41.6						
	GMU	e(Pn)		03 27 22.5	0.4	10.0	189			
		ePg		03 27 24.5						
		eL		03 27 47.3						
	UBO	ePn		07 24 02.7	0.4	0.6	212		2.0	Local Mag. 2.0 (UBO).
		ePg		07 24 06.7						
		eSn		07 24 26.1						
		eLg		07 24 30.7						
	GMU	eP		07 24 12.4	0.5	5.0				

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 25 (con't)	GMU	ePn		08 14 59.9	0.2	9.0		206			Near Fishlake, Utah Mag. 2.4 (U. of U.).
		ePg		08 15 03.0							
		eSn		08 15 23.0							
		eLg		08 15 27.0							
	DUG	ePn		08 15 08.0	0.5	1.8		223		*2.4	
		ePg		08 15 13.0							
		eSn		08 15 33.3							
		eLg		08 15 37.3							
	UBO	ePn		08 15 14.9	0.2	0.8		289			
		ePg		08 15 19.0							
		eLg		08 15 51.3							
	DUG	ePn		13 20 18.0				589			Regional.
		eLg		13 21 48.3							
	UBO	ePn		21 03 59.6	0.3	1.6		189	320		Local.
		e(P)		21 04 00.4							
		ePg		21 04 22.8							
	DUG	ePn		21 03 50.5	0.7	2.4		329			
		ePg		21 04 00.0							
		eSn		21 04 30.0							
		eLg		21 04 36.3							
26	DUG	ePn		01 16 39.0	0.5	0.9		312			Local.
		eLg		01 17 20.5							
	DUG	eP*		17 57 50.1	0.5	16.0					Bingham blast.
	GMU	iP	C	22 13 39.9				41	045		Local.
		eS		22 13 44.7							
	UBO	eP		22 14 07.7	0.3	1.1		180			
		eLg		22 14 31.9							
27	PCU	eP		04 38 01.4				45			Probable rockburst near Sunnyside, Utah.
		ePg		04 38 08.0							
		eR		04 38 18.5							
	GMU	ePn		04 38 22.4	0.4	2.0		156			
		ePg		04 38 24.0							
		eLg		04 38 43.4							
	UBO	ePn		04 38 14.2	0.4	0.4		167			
		ePg		04 38 18.4							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 27 (con't)	UBO	ePn		16 12 17.2	0.4	2.1	212	210	2.8	*South of Duchesne, Utah 39.94 N, 110.37 W
		ePg		16 12 21.1						16 12 03.6 h = 0 km Mag. 2.8 (UBO).
		eLg		16 12 45.0						(4 sta).
	GMU	ePn		16 12 26.0	0.3	22.0	189	135		
		ePg		16 12 28.4						
		eLg		16 12 50.0						
	FGU	ePn		16 12 27.0			206			
		eLg		16 12 54.0						
	DUG	eP		16 12 36.5						
	UBO	ePn		16 15 26.8	0.4	1.4	212	210	2.9	Near San Rafael Swell, Utah Mag. 2.9 (UBO).
		ePg		16 15 30.8						
		eLg		16 15 54.4						
	GMU	ePn		16 15 36.2	0.4	11.0	178	135		
		ePg		16 15 37.9						
		eLg		16 15 59.3						
	GMU	ePn		16 37 47.6	0.4	10.0	178	135		Near San Rafael Swell, Utah Mag. 2.5 (UBO).
		ePg		16 37 51.0						
		eLg		16 38 11.7						
	UBO	eP		16 37 40.0	0.4	1.0	212	210	2.5	
		ePg		16 37 43.8						
		eLg		16 38 07.6						
	DUG	iP	D	18 26 07.0	0.5	3.6	630		4.3	Northern California 40.48 N, 120.92 W
		ePg		18 26 31.8						18 24 33.8 h = 15 km Mag. 4.3.
		eL		18 27 51.2						
	DUG	eP*		21 00 34.6	0.6	14.2				Bingham blast.
	PCU	ePn		23 40 42.1			167			Near San Rafael Swell, Utah Mag. 2.6 (UBO).
		eP		23 40 52.0						
		ePg		23 40 59.7						
		eL		23 41 05.1						
	UBO	ePn		23 40 55.3	0.5	1.7	212	210	2.6	
		ePg		23 40 59.5						
		eLg		23 41 22.8						
	GMU	e(Pn)		23 41 04.8	0.4	14.0	178	135		
		ePg		23 41 06.5						
		eLg		23 41 27.8						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 28	DUG	eP*		20 52 39.8	0.6	11.1				Bingham blast.
	PCU	ePn		21 08 50.2			156			Near San Rafael Swell, Utah Mag. 1.9 (UBO).
		ePg		21 08 58.6						
		eL		21 09 08.9						
	UBO	ePn		21 09 03.9	0.5	2.0	212		1.9	
		e		21 09 06.4						
		ePg		21 09 08.0						
		eSn		21 09 28.8						
		eLg		21 09 33.0						
	GMU	e(Pn)		21 09 13.2	0.5	15.0	200	135		
		ePg		21 09 15.4						
		eL		21 09 37.6						
29	DUG	eP*		20 53 17.9	0.5	14.2				Bingham blast.
	DUG	ePn		21 00 29.1	0.7	3.2	534			Regional.
		eLg		21 01 46.7						
	FGU	ePn		22 00 51.9			189			Local.
		eLg		22 01 16.9						
	UBO	eP		22 01 03.3						
		eSur		22 01 33.7						
	GMU	ePn		22 01 10.8	0.1	6.0	318			
		ePg		22 01 16.4						
		eLg		22 01 53.9						
	DUG	ePn		22 26 29.1	0.5	3.6	312			Local.
		eLg		22 27 11.1						
30	PCU	eP		00 11 08.0			45			Probable rockburst near Sunnyside, Utah.
		ePg		00 11 15.2						
		eR		00 11 24.5						
	UBO	eP		00 11 20.9	0.6	1.5	167	SSW		
		ePg		00 11 24.7						
		eLg		00 11 45.1						
	GMU	ePn		00 11 29.8	0.4	12.0				
		ePg		00 11 31.8			200			
		eLg		00 11 54.6						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 30 (con't)	PCU	ePn		04 43 33.6			122			Local.
		ePg		04 43 40.0						
		eL		04 43 49.0						
	UBO	eP		04 43 47.0	0.5	1.2				
		eLg		04 44 15.4						
	GMU	ePn		04 43 55.8	0.6	10.0	167	158		
		ePg		04 43 58.2						
		eLg		04 44 18.2						
	GMU	iP	C	12 26 43.2			78			*North of Hanna, Utah 40.69 N, 110.75 W
		ePg		12 26 44.6						12 26 28.8 h = 20km Mag. 2.4. (6 sta)
		eLg		12 26 53.0						
	SLC	eP		12 26 44.5			89			
		ePg		12 26 50.2						
		eL		12 26 55.2						
	UBO	eP		12 26 46.6	0.3	6.4	100	280		
		eSur		12 26 59.6						
	FGU	eP		12 26 46.7			100			
		eS		12 26 59.8						
	PCU	ePn		12 26 47.4			145			
		eL		12 27 06.5						
	DUG	ePn		12 26 55.5	0.7	7.9	189		*2.4	
		ePg		12 27 01.0						
		eLg		12 27 20.9						
	DUG	iP*	C	17 53 33.0	0.5	15.1				Bingham blast.
	PCU	ePn		20 18 12.2			167			*West of Green River, Utah 38.96 N, 110.58 W
		ePg		20 18 24.2						20 17 59.8 h = 0 km Mag. 2.4. (5 sta).
		eL		20 18 35.0						
	UBO	ePn		20 18 26.9	0.3	0.6	180	203		
		ePg		20 18 28.2						
		eLg		20 18 50.3						
	GMU	ePn		20 18 33.2	0.4	17.0	229			
		ePg		20 18 36.4						
		eLg		20 19 02.5						
	DUG	ePn		20 18 34.9	0.5	1.8	212		*2.4	
		eLg		20 19 13.3						
	FGU	ePn		20 18 37.1			240			
		eLg		20 19 06.8						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Sept 30	DUG	P*		20 51 47.9	0.5	13.4					Bingham blast.
(con't)	GMU	eP		21 47 51.6	0.2	14.0		22	315		Local.
		eS		21 47 54.2							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 1	CCU	e(Pn)		00 30 03.5				178			*Northern Arizona, southwest of Kanab (4 sta)
		ePg		00 30 10.0							36.59 N, 111.72 W 00 29 43.1
		eL		00 30 28.5							h = 0 km Mag. 2.6.
	PGU	eP		00 30 25.9				300			
		ePg		00 30 27.7							
		eL		00 31 08.9							
	UBO	ePn		00 30 40.8	0.5		0.9	390			
		ePg		00 30 51.4							
		eLg		00 31 34.9							
	DUG	ePn		00 30 45.0	0.5		1.8	340		*2.6	
		eLg		00 31 32.0							
	GMU	ePg		05 30 38.1				145			Local.
		eLg		05 30 56.1							
	UBO	eP		05 30 43.0	0.4		0.8	256			
		eLg		05 31 17.3							
	DUG	ePn		17 40 08.9				545			Regional.
		eLg		17 41 29.0							
	DUG	ePn		17 42 20.5	0.7		3.2	534			Regional.
		eP*		17 42 29.3							
		ePg		17 42 36.0							
		eSn		17 43 07.3							
		eLg		17 43 39.0							
	DUG	ePn		19 05 22.5	0.5		1.8	407			Local.
		eLg		19 06 20.5							
	GMU	ePg		20 12 52.4				78	180		*South end of Utah Lake, Utah (4 sta)
		eP*		20 12 52.7							39.99 N, 111.86 W 20 12 41.5
		eS		20 13 01.9							h = 0 km Mag. 2.0.
	DUG	ePg		20 12 56.3				94		*2.0	
		eP*		20 12 58.5							
		eSn		20 13 11.0							
	PCU	eP		20 12 57.8				111			
		ePg		20 13 01.1							
		eL		20 13 09.1							
	UBO	ePn		20 13 13.7	0.4		1.0	189	262		
		e(P*)		20 13 15.0							
		ePg		20 13 15.6							
		eLg		20 13 39.4							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 1	DUG	eP*		20 53 12.0	0.5	19.6				Bingham blast.
(con't)	SLC	eP		23 23 06.4			21			Near Salt Lake City, Utah.
		ePg		23 23 07.4						
		eS		23 23 10.4						
	GMU	iPg	C	23 23 07.4			22	315		
		eS		23 23 10.0						
2	GMU	eP*		14 04 47.9						Local.
		ePg		14 04 49.6						
		eP		14 04 51.4			100			
		eLg		14 05 03.2						
	UBO	ePn		14 04 51.6	0.3	2.8	189			
		e(P*)		14 04 52.2						
		ePg		14 04 54.9						
		eSn		14 05 14.6						
	DUG	eP		16 43 38.3						Local.
	GMU	ePg		16 43 40.2	0.2	9.0	100			
		eLg		16 43 53.1						
	GMU	ePn		17 39 04.0			167			Local.
		ePg		17 39 05.2						
		eLg		17 39 26.2						
	UBO	ePn		17 39 07.2	0.3	5.6	189			
		e		17 39 08.1						
		eLg		17 39 30.8						
	GMU	eP*		20 46 29.2						Local.
		ePn		20 46 39.9			167			
		ePg		20 46 30.5						
		eLg		20 46 51.6						
	DUG	eP		20 46 39.5			178			
		eL		20 48 15.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 2 (con't)	UBO	ePn		20 46 32.5	0.3	9.7	185	343		Local.
		eP*		20 46 33.7						
		ePg		20 46 34.9						
		eSn		20 46 55.8						
		eLg		20 46 57.2						
	GMU	eP*		20 47 43.7						
		ePg		20 47 44.2	0.2	16.0	156	335		
		ePn		20 47 45.0						
		eLg		20 48 03.3						
	DUG	eP*		20 56 17.1	0.6	15.0				Bingham blast.
	UBO	ePn		21 58 43.6	0.3	0.4	245			Local.
		eP*		21 58 44.9						
		ePg		21 58 46.5						
		eLg		21 59 15.6						
	DUG	eP		21 59 04.0						
4	GMU	ePn		03 33 31.6			229			Local.
		eLg		03 34 02.3						
	UBO	ePn		03 33 38.6	0.2	0.6	189			
		eP*		03 33 39.8						
		eLg		03 34 03.1						
	PCU	eP		04 05 55.9			45			Probable rockburst near Sunnyside, Utah.
		ePg		04 06 03.5						
		eR		04 06 12.9						
	UBO	ePn		04 06 08.3	0.5	1.1	160	SSW		
		eLg		04 06 29.5						
	GMU	ePn		04 06 15.2	0.4	6.0	180			
		ePg		04 06 17.0						
		eLg		04 06 38.7						
	DUG	ePn		06 39 57.1	1.0	5.0	745		4.0	Gulf of California 30.8 N, 113.7 W
		eLg		06 42 41.9						06 37 31.3 h = 33 km Mag. 4.0.
	UBO	eP		06 40 01.1	0.5	0.4				
		eLg		06 42 54.4						
	GMU	e(Pn)		06 40 03.2			767			
		eLg		06 43 03.8						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 4 (con't)	UBO	eP		07 08 22.6	0.5	1.1					Regional.
		eLg		07 11 26.0							
	DUG	ePn		07 08 30.5	0.7	1.6		745			
		eLg		07 11 11.0							
	GMU	e(Pn)		07 08 34.8				723			
		eLg		07 11 01.3							
	GMU	e(Pn)		07 23 40.8				801			Gulf of California 30.0 N, 113.9 W
		ePg		07 27 07.5							07 21 10.4 h = 33 km Mag. 4.0.
	DUG	ePn		07 23 54.9	1.0	5.0		745		4.0	
		eLg		07 26 38.0							
	UBO	eP		07 23 59.1	0.6	1.5		1056			
		eLg		07 26 57.5							
	DUG	ePn		07 46 09.9	0.9	3.0		778			Regional.
		eLg		07 49 16.1							
	UBO	eP		07 46 15.4	0.6	1.7			203		
		eLg		07 49 14.6							
	GMU	e(Pn)		07 46 18.3				778			
		eLg		07 49 30.0							
	DUG	ePn		15 39 55.5				767			Regional.
		eLg		15 42 55.3							
	UBO	eP		15 40 05.1	0.5	0.9					
		eLg		15 42 54.0							
	GMU	e(Pn)		15 40 06.0				762			
		eLg		15 43 01.0							
	DUG	ePn		15 53 17.5				756			Regional.
		eLg		15 56 04.5							
	UBO	eP		15 53 27.4	0.6	0.5					
		eLg		15 56 19.3							
	DUG	ePn		17 00 53.0				734			Regional.
		eLg		17 03 36.0							
	UBO	ePn		17 01 01.6	0.7	3.2					
		eLg		17 03 56.7							
	GMU	ePn		17 01 20.4				745			
		ePg		17 03 52.2							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 4 (con't)	GMU	ePn		17 14 48.3			756			Regional.
		eLg		17 17 35.6						
	DUG	ePn		17 14 56.3			645			
		eLg		17 16 31.5						
	UBO	eP		17 15 00.7	0.4	0.4				
		eLg		17 18 04.0						
	GMU	ePn		17 41 28.8			815			Gulf of California 30.6 N, 113.6 W
		ePg		17 42 13.1				315		17 39 45.4 h = 33 km Mag. 5.0.
		eLg		17 45 12.4						
	DUG	ePn		17 42 06.3	1.0	20.0	745		5.0	
		eLg		17 44 46.5						
	UBO	eP		17 42 15.0	1.0	9.2	1178	203		
		eLg		17 45 19.3						
	DUG	eP*		18 01 45.5	0.5	14.2				Bingham blast.
5	PCU	eP		11 20 17.2			145			West of Moore, Utah.
		ePg		11 20 23.7						
		eL		11 20 33.6						
	UBO	ePn		11 20 29.4	0.4	1.8	212			
		eP*		11 20 32.1						
		ePg		11 20 34.0						
		eLg		11 20 53.4						
	GMU	ePn		11 20 38.0			212			
		ePg		11 20 39.9	0.4	16.0				
		eLg		11 21 03.6						
	SLC	eP		23 15 02.3			30			Near Wanship, Utah.
		eL		23 15 06.6						
	GMU	iPg	C	23 15 03.6			35	045		
		eS		23 15 07.7						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 6	DUG	ePn		17 38 24.8				520			Regional.
		ePg		17 38 38.2							
		eL		17 39 39.5							
	FGU	ePn		17 45 32.2				206			East of Steamboat, Colorado Mag. 3.3 (UBO).
		eLg		17 45 59.2							
	UBO	ePn		17 45 37.8	0.3		3.2	240	ENE	3.3	
		eP*		17 45 38.8							
		ePg		17 45 43.2							
		eLg		17 46 08.1							
	GMU	e(Pn)		17 46 05.0				434			
		ePg		17 46 07.6							
		eLg		17 46 57.7							
	PCU	eP		19 08 58.8				130			West of Moore, Utah.
		ePg		19 09 05.3							
		eLg		19 09 16.3							
	UBO	ePn		19 09 11.5	0.4		1.2	220	SSW		
		ePg		19 09 15.6							
		eLg		19 09 39.1							
	GMU	e(Pn)		19 09 20.9							
		ePg		19 09 22.6				178			
		eLg		19 09 43.9							
	FGU	ePn		19 09 49.6				223			
		eLg		19 10 19.3							
	DUG	eP		19 14 47.5				130			Local.
		eL		19 15 04.1							
	DUG	eP		21 09 21.6	0.6		19.0				Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 7	FGU	ePn		09 08 04.7				189			Idaho-Wyoming Border.
		eP*		09 08 05.3							
		ePg		09 08 07.3							
		eLg		09 08 29.5							
	GMU	eP*		09 08 06.9				200			
		ePn		09 08 07.4							
		eP		09 08 08.4							
		eSn		09 08 30.5							
		eLg		09 08 32.5							
	UBO	ePn		09 08 10.0	0.2		0.6	278	351		
		eP*		09 08 13.0							
		ePg		09 08 16.2							
		eSn		09 08 39.0							
		eLg		09 08 41.9							
	DUG	eP		09 08 18.1				356			
		eL		09 09 07.0							
	PCU	eP		09 08 21.8				478			
		ePg		09 08 51.6							
		eL		09 09 32.7							
	DUG	eP*		20 50 08.8	0.6		10.3				Bingham blast.
8	PCU	eP		05 58 36.6				45			Probable rockburst near Sunnyside, Utah.
		ePg		05 58 44.6							
		eR		05 58 53.6							
	UBO	eP		05 58 48.9	0.4		0.4		SSW		
		e		05 58 53.3							
		eSur		05 59 10.0							
	GMU	e(Pn)		05 58 57.2							
		ePg		05 58 58.2				167			
		eLg		05 59 20.3							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 8	GMU	eP*		06 02 09.4			48	315		*South end of Great Salt Lake, Utah (6 sta)
		ePg		06 02 09.6						40.68 N, 112.29 W 06 02 02.3
		eS		06 02 15.7						h = 0 km Mag. 2.0.
	SLC	ePg		06 02 09.6			55			
		eP		06 02 12.3						
		eL		06 02 14.2						
	DUG	ePg		06 02 14.3	0.5	3.6	89		*2.0	
		eS		06 02 26.7						
	PCU	ePn		06 02 31.5			245			
		ePg		06 02 53.2						
		eL		06 03 03.5						
	UBO	ePn		06 02 37.3	0.3	1.2	245	270		
		eP*		06 02 39.4						
		ePg		06 02 42.6						
		eLg		06 03 39.4						
	FGU	ePn		06 02 39.7			212			
		eLg		06 03 08.3						
	DUG	iP*	C	20 47 33.0	0.5	23.2				Bingham blast.
10	DUG	ePn		02 29 30.1	0.7	1.6	156			*South of Silver City, Utah 39.78 N, 112.11 W
		ePg		02 29 32.0						02 29 16.7 h = 0 km. (4 sta).
		eL		02 29 50.3						
	GMU	eP*		02 29 32.2			78			
		ePg		02 29 32.5						
		ePn		02 29 43.0						
		eSn		02 29 44.0						
	PCU	eP		02 29 35.1			100			
		ePg		02 29 40.1						
		eL		02 29 46.1						
	UBO	ePn		02 29 52.8	0.4	3.2	223	248		
		ePg		02 29 57.2						
		eSn		02 30 17.8						
	CCU	eP		21 57 58.0			234			Local.
		eL		21 58 28.9						
	GMU	ePn		21 58 12.4	0.3	7.0	283			
		eLg		21 58 50.2						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 11	DUG	eP		21 10 00.5	0.6	16.4					Bingham blast.
12	DUG	ePn		19 44 05.9				456			Local.
		ePg		19 44 23.5							
		eL		19 45 13.8							
	DUG	eP		20 08 05.2	1.5	50.8				5.2	Gulf of California 30.07 N, 113.38 W
	UBO	eP		20 08 11.4	1.3	20.2					20 05 34.5 h = 33 km Mag. 5.2.
		e		20 08 14.9							
		eSur		20 11 23.6							
	DUG	eP		20 53 48.5	0.6	16.4					Bingham blast.
13	CCU	ePn		09 41 43.7				167			*Northwest of Marysvale, Utah (4 sta)
		eP*		09 41 45.5							38.49 N, 112.25 W 09 41 26.2
		ePg		09 41 59.5							h = 20 km Mag. 2.7.
		eL		09 42 06.3							
	PCU	ePn		09 41 50.6				170			
		ePg		09 41 54.3							
		eL		09 42 14.8							
	DUG	ePn		09 41 54.9	0.4	7.4		178		*2.7	
		ePg		09 41 56.7							
		eLg		09 42 22.5							
	UBO	ePn		09 42 11.2	0.4	1.0		275	224		
		eSn		09 42 48.0							
	DUG	ePn		15 06 04.5				440		*4.6	Southern Nevada Mag. 4.6 (U. of U.).
		ePg		15 06 17.6							
		eLg		15 07 08.0							
	PCU	ePn		15 06 16.1				501			
		ePg		15 06 30.5							
		eL		15 07 29.5							
	GMU	ePn		15 06 16.7	0.7	20.0		589	203		
		eP*		15 06 19.6							
		ePg		15 06 30.6							
		eLg		15 07 44.2							
	UBO	ePn		15 06 33.5	0.7	11.6		645	231	4.7	
		ePg		15 06 54.4							
		eLg		15 08 09.7							
	FGU	ePn		15 06 39.5				667			
		eLg		15 08 20.3							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 13 (con't)	DUG	ePn		18 43 36.0			545			Regional.
		ePg		18 43 47.1						
		eLg		18 44 51.8						
	DUG	ePn		19 37 30.5	0.7	5.5	1277		4.7	California 30.05 N, 113.49 W
		eLg		19 40 47.5						19 35 00.47 h = 33 km Mag. 4.7.
	UBO	eP		19 37 38.3	1.0	2.9				
		eLg		19 40 48.1						
	PCU	ePg		20 09 04.3			120			Near Gunnison, Utah Mag. 2.0 (U. of U.).
		eL		20 09 18.1						
	DUG	ePn		20 09 04.8	0.5	1.8	140		*2.0	
		ePg		20 09 06.3						
		eLg		20 09 21.5						
	UBO	ePn		20 09 21.7	0.4	2.4	212	257		
		eP*		20 09 22.9						
		eLg		20 09 48.1						
14	PCU	ePg		02 17 14.0			167			Near Marysvale, Utah Mag. 2.0 (U. of U.).
	--	eL		02 17 34.9						
	DUG	ePn		02 17 17.3			200		*2.0	
		eLg		02 17 42.5						
	UBO	eP		02 17 35.2	0.4	2.8	300	SW		
		eSur		02 18 11.0						
	DUG	eP		06 10 50.7	0.7	480.0				Novaya Zemlya 73.3 N, 55.1 E
										05 59 57.1 h = 0 km Mag. 6.7.
	PCU	ePn		09 00 59.7			167			Local.
		eP		09 01 07.5						
		ePg		09 01 13.0						
		eL		09 01 21.0						
	UBO	eP		09 01 11.9	0.5	1.1	178			
		eSur		09 01 34.4						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 14	CCU	ePn		14 30 40.7			323			Nevada Test Site "Tijeras"
(con't)		e(L)		14 31 24.5						37.15 N, 116.00 W 14 30 00.00
	DUG	ePn		14 31 02.3	0.7	152.0	461	SW	*5.7	h = 0 km Mag. 5.5 (CGS), 5.2 (PAS),
		eP*		14 31 10.0						5.3 (BRK), 5.7 (U. of U.).
		ePg		14 31 21.0						
		eLg		14 32 09.0						
	PCU	ePn		14 31 15.0						
		ePg		14 31 22.5						
		eL		14 32 33.8						
	UBO	iP	C	14 31 33.0	0.9	726.0		SSW	5.5	
	GMU	ePn		14 31 14.1			550	203		
		eP*		14 31 21.2						
		ePg		14 31 28.0						
		eLg		14 32 34.8						
	FGU	iPn	C	14 31 39.3						
	DUG	ePn		14 55 48.3	0.5	1.8	345			Local.
		eLg		14 56 00.0						
	DUG	ePn		15 05 56.3	0.5	1.8	329			Local.
		eLg		15 06 41.0						
	DUG	ePn		15 11 03.1	0.5	3.4	379			Local.
		eLg		15 11 55.5						
	DUG	ePn		15 15 01.5	0.5	1.8	390			Local.
		eLg		15 15 56.7						
	DUG	ePn		15 19 02.5	0.5	2.7	345			Local.
		eLg		15 19 51.3						
	UBO	eP		15 19 47.6	0.8	1.3	456			
		eSur		15 20 54.4						
	DUG	e(Pn)		15 20 57.9	0.5	5.5	777			Regional.
		eLg		15 22 54.3						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 14 (con't)	DUG	ePn		15 23 23.5	0.7	14.2	450		*4.6	Southern Nevada Mag. 4.6 (U. of U.).
		eLg		15 24 28.5						
	GMU	ePn		15 23 37.2			523	203		
		ePg		15 23 51.7						
		eLg		15 24 54.3						
	UBO	ePn		15 23 53.1	1.7	8.6	647	SW		
		ePg		15 24 13.8	0.9	70.8				
		eLg		15 25 29.6						
	FCU	ePn		15 23 59.0			667			
		eLg		15 25 40.0						
	DUG	eP*		20 50 05.0	0.5	16.0				Bingham blast.
15	FGU	ePn		18 45 13.1			161			Southern Wyoming.
		eLg		18 45 33.7						
	UBO	eP		18 45 20.6	0.3	3.6	178	NW		
		eSur		18 45 43.8						
	DUG	ePn		18 45 56.7	0.7	2.4	489			
		eLg		18 47 08.3						
	DUG	eP*		20 52 48.0	0.5	14.2				Bingham blast.
16	DUG	ePn		02 50 25.7	0.5	1.8	272			Local.
		eLg		02 51 02.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 17	SLC	ePn		08 07 06.5			200			Eastern Idaho 42.7 N, 111.1 W
		ePg		08 07 13.0						08 06 33.3 h = 15 km Mag. 4.3 (CGS),
		eL		08 07 34.5						3.4 (U. of U.).
	GMU	ePn		08 07 08.1	0.3	16.5	234	157		
		eP*		08 07 09.8						
		ePg		08 07 11.2						
		eLg		08 07 38.6						
	FGU	ePn		08 07 10.1			245			
		eLg		08 07 42.0						
	DUG	ePn		08 07 17.2	0.7	7.9	340		*3.4	
		eP*		08 07 19.0						
		ePg		08 07 25.0						
		eLg		08 08 04.0						
	UBO	ePn		08 07 17.6	0.4	4.7	256	NNE		
		eP*		08 07 19.6						
		ePg		08 07 23.2						
		eLg		08 07 51.2						
	PCU	ePn		08 07 22.5			345			
		eP*		08 07 26.3						
		ePg		08 07 32.3						
		eL		08 08 08.3						
18	DUG	ePn		00 22 04.5	0.5	1.8	223		*2.2	Near Fishlake, Utah Mag. 2.2 (U. of U.).
		ePg		00 22 08.6						
		eL		00 22 30.0						
	UBO	eP		00 22 22.3	0.4	2.6	256	SW		
		eLg		00 22 56.9						
	DUG	ePn		00 29 35.9			178		*2.0	Near Monroe, Utah Mag. 2.0 (U. of U.).
		eL		00 30 00.0						
	UBO	eP		00 29 53.1			256	SW		
		eLg		00 30 27.4						
	DUG	ePn		01 23 07.0			178		*2.3	East of Richfield, Utah Mag. 2.3 (U. of U.).
		ePg		01 23 09.0						
		eL		01 23 32.1						
	UBO	ePn		01 23 24.7	0.4	2.0	260	221		
		eP*		01 23 26.2						
		ePg		01 23 30.1	0.5	2.6				
		eLg		01 23 59.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 18 (con't)	DUG	eP		11 05 11.1	0.6	3.2					California-Nevada Border Region 37.3 N, 117.3 W 11 03 45.0 h = 8 km.
	PCU	eP		18 26 03.2				45			South of Sunnyside, Utah.
		ePg		18 26 09.7							
		eL		18 26 14.2							
	UBO	ePn		18 26 25.8	0.4	0.4		189	SW		
		eP*		18 26 28.4							
		eLg		18 26 50.0							
	UBO	ePn		20 08 03.0	0.5	3.3		777	360	*4.6	Montana 46.2 N, 111.5 W 20 06 32.6 h = 15 km Mag. 4.3 (CGS), 4.6 (U. of U. Felt in Helena area.
		ePg		20 08 28.8							
		e		20 08 53.6							
		e(Sn)		20 09 14.2							
		eLg		20 09 34.2							
		eL		20 09 48.0							
		eR		20 10 14.0							
	DUG	eP		20 08 04.8	0.8	3.4					
	PCU	eP		20 08 11.1							
19	DUG	ePn		01 39 27.5				140			Local.
		eL		01 39 45.0							
	UBO	iP	D	17 40 07.3	0.2	1323.2		54	112	3.7	Rangely, Colorado Mag. 3.3 (U. of U.).
		eS		17 40 14.8							
	FGU	iPg	C	17 40 13.3				67			
		eS		17 40 22.0							
	PCU	ePn		17 40 23.6				178			
		eP*		17 40 26.1							
		ePg		17 40 38.1							
		eL		17 40 48.1							
	DUG	eP		17 40 48.0				340		*3.3	
		ePg		17 40 57.9							
		eL		17 41 35.0							
20	PCU	eP		17 25 13.8				45		*2.0	South of Sunnyside, Utah Mag. 2.0 (U. of U.).
		ePg		17 25 20.8							
		eL		17 25 24.8							
	UBO	eP		17 25 38.8	0.5	1.3		145			
		eSur		17 25 57.6							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 20 (con't)	DUG	ePn		18 45 36.0			489			Local.
		ePg		18 45 54.7						
		eL		18 46 47.2						
	GMU	iP*	C	20 59 06.9						Bingham blast.
	DUG	eP		20 59 12.1	0.6	22.4				
	GMU	eP*		22 06 38.8	0.1	13.5	100			Local.
		ePg		20 06 40.2	0.1	19.5				
		eSn		22 06 51.5						
	PCU	eP		22 06 46.2			300			
		ePg		22 06 50.5						
		eL		22 07 27.0						
	UBO	eP		22 07 03.1	0.4	3.6		NW		
	GMU	iPg	C	23 30 49.6			26	045		Local.
		eS		23 30 52.7						
	DUG	eP		23 31 06.2						
	UBO	eP		23 31 19.0	0.3	0.8	167			
		eLg		23 31 41.0						
21	GMU	eP*		02 24 05.6	0.2	21.5	100			Local.
		ePg		02 24 06.6	0.2	25.0				
		eSn		02 24 18.1						
	FGU	ePn		02 24 25.7			223			
		eLg		02 24 55.0						
	UBO	eP		02 24 29.0	0.5	6.5	234			
		eSur		02 24 59.9						
	PCU	eP		04 08 24.8			45		*2.1	South of Sunnyside, Utah Mag. 2.1 (U. of U.
		ePg		04 08 31.5						
		eL		04 08 36.5						
	GMU	ePg		04 08 44.2	0.4	15.0	145	180		
		eLg		04 09 02.4						
	UBO	eP		04 08 51.0	0.5	4.4				
		eSur		04 09 24.0						
22	GMU	ePn		01 32 33.5	0.3	4.0	206			Near Bloom, Utah.
		eLg		01 33 00.7						
	UBO	eP		01 32 39.4	0.4	0.6	312			
		eLg		01 33 14.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 22 (con't)	PCU	eP		23 20 17.7				323		*3.0	Utah-Arizona Border near Monument Pass Mag. 3.0 (U. of U.).
		eL		23 21 01.3							
	UBO	ePn		23 20 30.6	0.6		2.7	380	SSW	3.5	
		ePg		23 20 40.7							
		eLg		23 21 23.5							
23	GMU	ePn		09 00 38.1	0.4		4.5	272			Local.
		eP*		09 00 39.3							
		eLg		09 01 14.2							
	UBO	eP		09 00 41.5				290			
		eLg		09 01 21.0							
	DUG	eP*		19 15 14.3	0.6		19.6				Bingham blast.
24	PCU	eP		04 58 40.0				145			Local.
		ePg		04 58 48.8							
		eL		04 58 58.7							
	UBO	eP		04 58 58.6	0.4		1.6	190			
		eSur		04 59 23.9							
	FGU	ePg		15 06 11.1				67			Rangely, Colorado Mag. 3.0 (UBO).
		eS		15 06 30.2							
	UBO	eP		15 06 12.5	0.3		32.2	55	120	3.0	
		eS		15 06 20.2							
	PCU	eP		15 06 29.5				178			
		ePg		15 06 50.3							
		eL		15 06 54.7							
	GMU	ePn		15 06 41.5	0.4		20.0	223	135		
		ePg		15 06 46.2							
		eLg		15 07 10.0							
	DUG	eP*		20 56 49.3	0.6		14.2				Bingham blast.
	GMU	ePn		23 46 43.9				265	045		Local.
		eP*		23 46 46.1							
		ePg		23 46 50.7							
		eLg		23 47 18.6							
	UBO	eP		23 46 54.9	0.4		1.8	289			
		eLg		23 47 33.6							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 25	CCU	eP		02 14 02.4				89			*Northwest of Parowan, Utah (6 sta)
		eP*		02 14 03.8							38.01 N, 112.92 W 02 13 56.2
		ePg		02 14 07.1							h = 20 km Mag. 2.6.
		eL		02 14 12.1							
	PCU	ePn		02 14 28.8				167			
		ePg		02 14 31.6							
		eL		02 14 51.4							
	DUG	ePn		02 14 29.4				278		*2.6	
		ePg		02 14 34.5							
		eL		02 15 05.5							
	GMU	ePn		02 14 40.0	0.4	5.0		272	180		
		ePg		02 14 45.2							
		eL		02 15 16.4							
	UBO	ePn		02 14 45.4	0.4	1.0		334			
		ePg		02 14 54.8							
		eLg		02 15 31.2							
	FGU	ePn		02 15 06.5				350			
		eLg		02 15 55.0							
	PCU	ePn		07 28 56.4				260			Local.
		eP*		07 29 06.7							
		ePg		07 29 14.6							
		eL		07 29 31.6							
	UBO	eP		07 29 30.3	0.4	1.4					
		eSur		07 29 48.3							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 25 (con't)	PCU	ePn		07 46 52.9			160			*Near Ephraim, Utah 39.38 N, 111.57 W
		eP*		07 46 56.2						07 46 42.5 h = 0 km Mag. 2.9 (7 sta).
		ePg		07 47 00.3						
		eL		07 47 15.0						
	SLC	eP		07 46 59.5			160			
		ePg		07 47 13.6						
		eL		07 47 36.0						
	GMU	ePn		07 47 08.2			167			
		eLg		07 47 30.2						
	DUG	ePn		07 47 09.0	0.6	15.0	178		*2.9	
		ePg		07 47 11.3						
		eL		07 47 30.0						
	UBO	ePn		07 47 15.7	0.5	30.0	190	233	3.8	
		ePg		07 47 17.7						
		eLg		07 47 41.4						
	CCU	ePn		07 47 16.1			212			
		ePg		07 47 19.6						
		eL		07 47 44.6						
	FGU	ePn		07 47 23.5			267			
		eLg		07 47 59.0						
	PCU	eP		07 48 29.7			100			*Orangeville, Utah 39.20 N, 111.15 W
		ePg		07 48 34.1						07 48 20.5 h = 0 km Mag. 3.5 (5 sta).
		eL		07 48 43.3						
	GMU	iPn	D	07 48 47.9			156			
		eLg		07 49 08.0						
	DUG	ePn		07 48 48.3	0.6	37.9	156		*3.5	
		ePg		07 48 51.8						
		eL		07 49 09.3						
	SLC	ePn		07 48 49.1			178			
		ePg		07 49 00.8						
		eL		07 49 12.0						
	UBO	ePn		07 48 55.9	0.3	75.6	190		4.4	
		eLg		07 49 19.8						
	CCU	ePn		07 48 56.4			189			
		ePg		07 49 03.5						
		eL		07 49 22.1						
	FGU	ePn		07 48 03.5			278			
		eLg		07 48 41.3						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 25 (con't)	PCU	eP		10 36 15.9			45			South of Sunnyside, Utah.
		ePg		10 36 21.7						
		eL		10 36 26.9						
	GMU	ePn		10 36 34.4	0.4	10.0	145	180		
		eLg		10 36 53.5						
	UBO	ePn		10 36 37.5	0.4	2.0	180			
		eLg		10 37 01.2						
	FGU	ePn		10 39 30.0			223			Southern Wyoming.
		eLg		10 39 58.9						
	UBO	ePn		10 39 31.6	0.2	1.7	205			
		ePg		10 39 33.7						
		eL		10 39 58.4						
	PCU	eP		10 39 49.4			256			
		ePg		10 39 55.9						
		eL		10 40 29.4						
	GMU	ePn		10 40 01.4			278			
		eLg		10 40 48.4						
	FGU	ePn		15 45 23.3			272			Central Wyoming.
		eLg		15 45 59.0						
	GMU	ePn		15 45 25.7			294			
		eP*		15 45 31.8						
		ePg		15 45 33.5						
		eLg		15 46 06.0						
	UBO	ePn		15 45 30.6	0.4	1.0	310	NNE		
		ePg		15 45 39.0						
		eLg		15 46 13.8						
	DUG	eP		15 45 35.2						
	PCU	eP		15 45 45.6			334			
		eL		15 46 32.1						
	PCU	eP		16 56 14.8			111			San Rafael Swell, Utah.
		ePg		16 56 24.8						
		eL		16 56 37.6						
	GMU	ePn		16 56 28.5	0.3	3.0	156			
		eLg		16 56 48.0						
	UBO	ePn		16 56 36.0	0.4	2.0	185	SW		
		eLg		16 57 00.2						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 25 (con't)	DUG	ePn		23 02 26.5			250		*3.8	*South of Fishsprings, Utah (4 sta)
		ePg		23 02 30.9						39.62 N, 113.49 W 23 02 19.2
		eLg		23 02 59.7						h = 10 km Mag. 3.8.
	GMU	ePn		23 02 45.7	0.3	5.0	272			
		eLg		23 03 22.0						
	CCU	e(Pn)		23 02 46.5			330			
		ePg		23 03 07.2						
		eL		23 03 29.0						
	UBO	ePn		23 03 03.7	0.4	0.8	460	SW		
		ePg		23 03 18.1	0.6	2.4				
		eLg		23 04 10.6						
	PCU	eP		23 36 00.0			45		*2.5	South of Sunnyside, Utah Mag. 2.5 (U. of U.)
		ePg		23 36 03.8						
		eL		23 36 11.0						
	GMU	ePn		23 36 17.3			156			
		eLg		23 36 37.5						
	UBO	ePn		23 36 21.7	0.4	1.6	180	SSW		
		ePg		23 36 23.6						
		eLg		23 36 44.9						
26	DUG	eP		08 17 16.2			478			Regional.
		ePg		08 17 30.1						
		eL		08 18 39.5						
	CCU	ePn		08 17 33.5			512			
		ePg		08 17 50.2						
		eL		08 18 47.5						
	GMU	e(Pn)		08 17 50.0	0.4	2.0	489			
		eLg		08 19 01.2						
	UBO	ePg		08 17 54.0	0.6	9.0		SW		
		eSur		08 19 53.2						
	DUG	eP*		22 02 56.3	0.6	14.2				Bingham blast.
	CCU	ePn		23 29 17.7			170			Local.
		ePg		23 29 23.8						
		eL		23 29 42.0						
	UBO	eP		23 29 53.7	0.6	3.0	390			
		eLg		23 30 46.9						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 27	GMU	eP*		02 25 59.9	0.1	15.0				South of Logan, Utah.
		ePg		02 26 00.9						
		ePn		02 26 02.4			89			
		eSn		02 26 13.6						
	DUG	eP		02 26 13.5			115			
		eL		02 26 27.1						
	UBO	eP		02 26 23.4	0.4	4.3	234			
		eLg		02 26 54.6						
	DUG	eP		02 40 35.1	1.0	40.0	1202		4.9	Northern California 40.35 N, 126.99 W
	UBO	eP		02 41 09.2						02 37 57.55 h = 33 km Mag. 4.9.
	GMU	eP*		03 59 14.2	0.1	13.5				North of Bear Lake, Idaho.
		ePg		03 59 15.3						
		ePn		03 59 16.7			89			
		eLg		03 59 28.4						
	FGU	ePn		03 59 35.0			223			
		eLg		04 00 04.0						
	UBO	eP		03 59 38.2	0.4	2.8	278	NW		
		eSur		04 00 08.9						
	DUG	eP		03 59 40.9						
	PCU	ePn		06 12 03.5			167			*Southeast of Manti, Utah 39.16 N, 111.44 W
		ePg		06 12 05.5						06 11 52.3 h = 0 km Mag. 2.8 (7 sta
		eL		06 12 26.8						
	GMU	eP*		06 12 17.4			156	180		
		ePn		06 12 18.3						
		ePg		06 12 20.4						
		eLg		06 12 37.8						
	DUG	ePn		06 12 18.4	0.6	23.9	200		*2.8	
		ePg		06 12 23.2						
		eLg		06 12 43.0						
	UBO	eP		06 12 25.2	0.4	23.3	190	227	3.9	
		eLg		06 12 51.0						
	CCU	ePn		06 12 25.2			223			
		eP		06 12 29.3						
		eL		06 12 54.0						
	FGU	eP		06 12 33.0			245			
		eLg		06 13 04.0						
	LOG	eP		06 12 36.2			289			
		eL		06 13 17.8						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 27	DUG	eP		10 17 03.0	0.9	2.0			4.3	Off Coast of Northern California
(con't)	UBO	eP		10 17 41.7						40.25 N, 126.71 W 10 14 27.38
										h = 33 km Mag. 4.3.
	DUG	ePn		20 50 58.3			534			Regional.
		ePg		20 51 14.0						
		eL		20 52 16.2						
	GMU	iP*	D	21 02 13.9				180		Near Scofield, Utah.
		ePg		21 02 15.0						
		ePn		21 02 16.0			89			
		eSn		21 02 26.9						
	DUG	ePn		21 02 17.6			145			
		eL		21 02 36.5						
28	DUG	ePn		14 56 57.5			445	SW	*4.2	Southern Nevada Mag. 4.2 (U. of U.).
		ePg		14 57 09.5						
		eLg		14 57 57.0						
	GMU	e(Pn)		14 57 00.3			501			
		eLg		14 58 13.1						
	PCU	eP		15 43 30.1			45			Probable rockburst near Sunnyside, Utah.
		ePg		15 43 34.6						
		eR		15 43 46.0						
	UBO	ePn		15 43 47.0	0.5	3.1	140	SW		
		eSn		15 44 04.4						
	GMU	e(Pn)		15 43 50.5			178	135		
	DUG	eP		21 50 55.0	0.6	15.8				Bingham blast.
29	DUG	eP*		22 00 42.0	0.6	15.8				Bingham blast.
	GMU	ePn		22 08 28.4	0.1	12.5	189			Local.
		ePg		22 08 30.3						
		eSn		22 08 50.3						
		eLg		22 08 53.4						
	UBO	eP		22 08 32.2	0.3	9.9	200	NW		Local.
		eLg		22 08 56.1						
	DUG	eP		22 08 44.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 29 (con't)	DUG	eP		22 37 03.7				285		*2.8	Near San Rafael Swell, Utah
		eL		22 37 41.5							Mag. 2.8 (U. of U.).
	PCU	ePn		22 38 20.2				167			
		ePg		22 38 24.0							
		eL		22 38 43.3							
	UBO	ePn		22 38 32.6	0.5		2.4	200	217	2.7	
		ePg		22 38 36.2							
		eLg		22 38 58.8							
	GMU	ePg		22 38 42.6	0.5		19.0	156	158		
		eLg		22 39 01.1							
30	PCU	ePg		05 12 42.2				120			*Southeast of Mount Pleasant, Utah (4 sta)
		eL		05 12 51.2							39.42 N, 111.36 W 05 12 36.5
	GMU	ePn		05 12 57.3	0.4		5.0	294			h = 30 km Mag. 2.9.
		eLg		05 13 17.5							
	DUG	ePg		05 12 58.0				245		*2.9	
		eL		05 13 20.0							
	UBO	eP		05 13 05.1	0.3		2.4	178	SW		
		eLg		05 13 28.1							
	PCU	eP		10 10 18.0				45			South of Sunnyside, Utah.
		ePg		10 10 21.3							
		eL		10 10 29.0							
	UBO	eP		10 10 42.6	0.4		0.6	145			
		eLg		10 11 01.5							
	PCU	eP		14 47 35.1				156			*North of Spry, Utah 38.11 N, 112.45 W
		ePg		14 47 38.2							14 47 05.4 h = 20 km Mag. 2.8 (4 sta)
		eL		14 47 55.8							
	DUG	ePn		14 47 38.8	0.5		7.1	200		*2.8	
		ePg		14 47 42.5							
		eL		14 48 05.5							
	GMU	ePn		14 47 45.7	0.3		3.0	206			
		ePg		14 47 49.6							
		eLg		14 48 12.8							
	UBO	ePn		14 47 56.0	0.4		7.1	256	217		
		ePg		14 48 00.2							
		eLg		14 48 30.6							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Oct 30 (con't)	PCU	eP		18 32 40.2			167			Near San Rafael Swell, Utah.
		ePg		18 32 46.4						
		eL		18 33 03.6						
	UBO	ePn		18 32 53.2	0.5	1.3	200	SW		
		eLg		18 33 20.4						
	GMU	iP*	C	23 08 46.9						Bingham blast.
	DUG	eP		23 08 50.9	0.6	20.5				
31	DUG	eP		22 54 30.5			212			Local.
		eL		22 55 00.5						
Nov 1	GMU	eP*		00 54 15.3	0.1	22.5				*Great Salt Lake, Utah (Bear River Bay)
		ePg		00 54 16.3						41.38 N, 112.21 W 00 53 58.6
		ePn		00 54 17.4			100			h = 0 km Mag. 2.2 (4 sta).
		eSn		00 54 29.6						
	DUG	ePn		00 54 22.0			178		*2.2	
		ePg		00 54 24.9						
		eL		00 54 42.6						
	FGU	ePn		00 54 35.4			251			
		eLg		00 55 07.8						
	UBO	ePn		00 54 36.5	0.4	0.2	250			
		eP*		00 54 46.6	0.5	10.8				
		eLg		00 55 09.6						
	GMU	eP*		08 57 33.4	0.1	4.0				Local.
		ePn		08 57 35.0			100			
		eSn		08 57 46.9						
	UBO	eP		08 57 51.6	0.3	0.4	189			
		eSur		08 58 17.4						
	GMU	iP*	C	18 54 01.3						Bingham blast.
	DUG	eP		18 54 07.2	0.6	20.5				
	LOG	eP		18 54 18.9						
	DUG	eP		21 41 07.8	0.6	11.1				Bingham blast.
	DUG	ePn		22 42 11.5			195			Local.
		eL		22 42 38.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 2	UBO	eP		05 12 02.9			167			Local.
		eSur		05 12 23.8						
	GMU	ePn		05 12 12.3	0.4	7.5	200			
		eLg		05 12 36.5						
3	GMU	eP*		02 03 15.5				315		*Near Reese, Utah 41.26 N, 112.99 W
		ePg		02 03 16.5						02 03 01.6 h = 0 km Mag. 2.0 (4 sta
		ePn		02 03 18.5			78			
		eSn		02 03 28.4						
	DUG	ePn		02 03 24.0	0.5	4.5	145	N	*2.0	
		ePg		02 03 26.9						
		eL		02 03 42.3						
	FGU	ePn		02 03 36.2			234			
		eLg		02 04 07.2						
	UBO	ePn		02 03 38.3	0.4	0.4	230	WNW	2.3	
		eP		02 03 39.5						
		e(Pg)		02 03 43.1						
		eLg		02 04 09.4						
	GMU	eP*		04 13 31.5						*Near Reese, Utah 41.27 N, 112.18 W
		ePg		04 13 32.7						04 13 16.9 h = 0 km Mag. 1.8 (4 sta)
		ePn		04 13 34.2			79			
		eSn		04 13 44.0						
	DUG	ePn		04 13 39.0			145		*1.8	
		ePg		04 13 42.0						
		eL		04 13 58.2						
	FGU	ePn		04 13 52.5			229			
		eLg		04 14 23.1						
	UBO	ePn		04 13 54.9	0.3	0.8	230	286	2.5	
		eP*		04 13 56.3						
		eLg		04 14 26.3						
	GMU	ePn		11 05 08.9	0.3	8.0	256			Local Mag. 2.7 (UBO).
		ePg		11 05 13.1						
		eLg		11 05 43.3						
	UBO	ePn		11 05 18.0	0.3	0.4	305	NNW	2.7	
		eP*		11 05 22.0						
		ePg		11 05 25.4						
		eLg		11 06 00.6						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 3 (con't)	UBO	ePn		14 30 03.1	0.4	0.4	189	210	2.3	Near San Rafael Swell, Utah Mag. 2.3 (UBO).
		e(Pg)		14 30 07.2						
		eSn		14 30 24.7						
		eLg		14 30 28.2						
	GMU	e(Pn)		14 30 07.2						
		ePg		14 30 11.2			200			
		eLg		14 30 34.1						
	CCU	ePn		16 41 47.5			178			Southern Nevada 37.26 N, 115.05 W.
		ePg		16 41 51.5						16 41 16.91 h = 7 km Mag. 3.7 (UBO).
		eL		16 42 12.7						
	DUG	ePn		16 42 18.6			445			
		ePg		16 42 23.0						
		eL		16 43 13.7						
	GMU	ePn		16 42 31.7			412			
		eP*		16 42 36.2						
		ePg		16 42 38.8						
		eLg		16 43 31.0						
	UBO	ePn		16 42 41.1	0.4	0.8	556	SW	3.7	
		ePg		16 42 59.0						
		eLg		16 44 02.4						
	DUG	ePn		18 45 18.4			467			Local.
		ePg		18 45 29.9						
		eL		18 46 26.8						
	UBO	ePn		19 22 02.2	0.4	0.6	380		3.1	Local Mag. 3.1 (UBO).
		ePg		19 22 12.2						
		eLg		19 22 55.6						
	DUG	eP		21 40 04.9	0.6	19.0				Bingham blast.
4	DUG	iP	C	06 16 00.1	0.7	39.5			5.4	Eastern Kazakh SSR 49.97 N, 77.79 E
										06 02 57.03 h = 0 km Mag. 5.4.
	DUG	eP		22 47 42.7	1.0	5.0				Local.
	CCU	eP		22 47 52.5			200			
		eL		22 48 20.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 5	CCU	ePn		15 00 41.1			189			Nevada Test Site "Abeytas"
		ePg		15 00 44.5						37.03 N, 116.01 W 15 00 00.00
		eL		15 01 07.1						h = 0 km Mag. 4.9 (CGS), 4.7 (BRK),
	DUG	eP		15 01 03.1			445		*3.9	3.9 (U. of U.).
		ePg		15 01 18.0						
		eL		15 02 08.0						
	GMU	ePn		15 01 15.9			489	225		
		eP*		15 01 22.5						
		ePg		15 01 31.7						
		e(Sn)		15 02 02.0						
		eLg		15 02 37.3						
	SLC	ePn		15 01 18.0			570			
		ePg		15 01 35.0						
		eL		15 02 43.8						
	UBO	ePn		15 01 33.9	1.0	14.0	630	231		.
		ePg		15 01 54.0						
		eLg		15 03 07.5						
	FGU	ePn		15 01 39.3			667			
		eLg		15 03 21.3						
	CCU	ePn		16 02 24.1			189			"Abeytas" Cavity Collapse Mag. 4.2 (UBO).
		ePg		16 02 27.8						
		eL		16 03 02.7						
	DUG	eP		16 02 49.2						
	UBO	ePn		16 03 16.5	1.2	11.4	630	231	4.2	
		ePg		16 03 35.9						
		eLg		16 04 50.4						
	DUG	eP*		18 51 40.8	0.6	15.8				Bingham blast.
	UBO	ePn		20 20 16.0	0.5	1.9	500	SSE	3.8	North-northwest of Gallup, New Mexico
		ePg		20 20 30.5						Mag. 3.8 (UBO).
		eLg		20 21 28.9						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 6	UBO	ePn		04 22 58.0	0.5	1.1	210	205	2.4	Near San Rafael Swell, Utah Mag. 2.4 (UBO).
		ePg		04 23 02.1						
		eSn		04 23 23.0						
		eLg		04 23 25.7						
	GMU	ePn		04 23 06.1			184	135		
		ePg		04 23 08.0						
		eLg		04 23 30.5						
	FGU	ePn		04 23 08.3			206			
		eLg		04 23 35.3						
	DUG	eP*		22 20 17.0	0.6	12.6				Bingham blast.
	CCU	ePn		23 33 47.5			170			Local.
		ePg		23 33 50.2						
		eL		23 34 11.1						
	UBO	eP		23 34 16.8	0.4	1.0	423			
		eSur		23 35 21.7						
7	UBO	ePn		07 15 54.5	0.5	0.6	190	SW		Local.
		ePg		07 15 58.2						
		eLg		07 16 18.5						
	GMU	ePn		07 16 01.9	0.3	2.0	200			
		eLg		07 16 28.1						
	DUG	eP*		18 55 39.1	0.6	10.3				Bingham blast.
8	DUG	ePn		06 09 27.5			445			Local.
		ePg		06 09 37.5						
		eL		06 10 33.0						
	DUG	eP		08 09 35.0			501		3.8	Western Idaho 44.35 N, 115.58 W
		eL		08 10 38.0						08 08 10.98 h = 33 km Mag. 3.8.
	UBO	ePn		08 09 41.0	0.8	2.1	593	WNW		
		ePg		08 09 58.4						
		eLg		08 11 09.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 8 (con't)	SLC	eP		16 48 12.7			100			Local.
		ePg		16 48 22.3						
		eL		16 48 25.0						
	DUG	eP		16 48 23.5			122			
		eL		16 48 37.0						
	UBO	eP		16 48 49.2	0.6	1.7	210			
		eLg		16 49 16.2						
	CCU	eP		20 28 44.2			267			Northern Arizona.
		ePg		20 28 49.8						
		eL		20 29 19.1						
	UBO	eP		20 29 07.5	0.5	2.0	395	SSW		
		ePg		20 29 18.1						
		eLg		20 30 03.1						
	DUG	eP		20 29 22.0						
9	DUG	eP*		22 14 15.3	0.6	23.7				Bingham blast.
	UBO	eP		22 35 01.9	0.4	1.0	162	212		Local.
		ePg		22 35 22.8						
	DUG	eP		22 35 03.5						
10	SLC	eP		16 01 56.9			67			Near Morgan, Utah.
		eL		16 02 04.4						
	DUG	eP		16 01 58.9			134			
		eL		16 02 14.0						
	UBO	eP		16 02 23.8	0.4	1.0	200			
		eP*		16 02 24.9						
		eLg		16 02 51.9						
	DUG	eP		19 37 35.9			512			Regional.
		ePg		19 37 49.5						
		eL		19 38 50.1						
	DUG	eP		20 55 24.5	0.5	4.5	89			Local.
		ePg		20 55 26.3						
		eL		20 55 40.5						
	UBO	eP		20 55 40.3	0.3	2.8	200			
		ePg		20 55 41.6						
		eLg		20 56 06.6						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 11	DUG	eP		21 53 04.1	0.6	12.6				Bingham blast.
12	PCU	eP		06 55 03.2			45			South of Sunnyside, Utah Mag. 2.1 (UBO).
		ePg		06 55 04.1						
		eL		06 55 14.2						
	GMU	ePn		06 55 20.8			145			
		eLg		06 55 40.2						
	UBO	ePn		06 55 24.9	0.5	0.9	156	218	2.1	
		ePg		06 55 27.4						
		eLg		06 55 44.0						
	PCU	eP		08 50 29.1			45			South of Sunnyside, Utah Mag. 2.1 (UBO).
		ePg		08 50 32.2						
		eL		08 50 40.1						
	GMU	ePn		08 50 47.6			161			
		eLg		08 51 08.2						
	UBO	ePn		08 50 51.2	0.4	0.8	160	219	2.1	
		ePg		08 50 53.8						
		eLg		08 51 12.6						
	PCU	eP		09 23 18.7			45			South of Sunnyside, Utah.
		ePg		09 23 24.2						
		eL		09 23 29.7						
	UBO	eP		09 23 43.1	0.4	0.4	145			
		eSur		09 24 02.5						
	PCU	eP		09 53 41.7			45			South of Sunnyside, Utah.
		ePg		09 53 46.7						
		eL		09 53 52.7						
	UBO	eP		09 54 05.9	0.5	0.9	145			
		eSur		09 54 24.9						
	PCU	eP		10 50 14.0			45			South of Sunnyside, Utah Mag. 1.8 (UBO).
		ePg		10 50 19.8						
		eL		10 50 24.9						
	UBO	ePn		10 50 35.4	0.4	0.4	160	218	1.8	

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 12 (con't)	PCU	eP		11 16 31.0				45			South of Sunnyside, Utah Mag. 2.4 (UBO).
		ePg		11 16 34.0							
		eL		11 16 42.0							
	GMU	eP*		11 16 48.0							
		ePn		11 16 49.2				161			
		eLg		11 17 10.0							
	UBO	ePn		11 16 53.0	0.5		1.8	160	218	2.4	
		ePg		11 16 55.6							
		eLg		11 17 13.3							
	PCU	eP		11 42 31.4				45			South of Sunnyside, Utah.
		ePg		11 42 36.4							
		eL		11 42 42.4							
	UBO	ePg		11 42 55.8	0.5		1.8		SW		
		eLg		11 43 01.3							
	PCU	eP		11 48 10.1				45			South of Sunnyside, Utah Mag. 1.8 (UBO).
		ePg		11 48 13.4							
		eL		11 48 21.1							
	UBO	ePn		11 48 32.0	0.4		0.4	156	218	1.8	
		ePg		11 48 34.5							
		eLg		11 48 51.2							
	PCU	eP		11 59 05.2				45			South of Sunnyside, Utah.
		ePg		11 59 07.4							
		eL		11 59 16.2							
	UBO	ePg		11 59 29.7	0.5		1.1	134	SW		
		eLg		11 59 45.3							
	PCU	eP		12 06 17.5				45			South of Sunnyside, Utah.
		ePg		12 06 22.1							
		eL		12 06 28.5							
	UBO	eP		12 06 41.7	0.4		0.6	140	SW		
		eSur		12 06 58.6							
	PCU	eP		14 05 01.2				45			South of Sunnyside, Utah.
		ePg		14 05 06.7							
		eL		14 05 12.2							
	UBO	ePg		14 05 25.5	0.5		1.3	134	SW		
		eLg		14 05 41.6							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 12 (con't)	PCU	eP		14 06 11.4				45			South of Sunnyside, Utah.
		ePg		14 06 15.0							
		eL		14 06 22.4							
	UBO	ePg		14 06 35.5	0.5		2.0	134	SW		
		eLg		14 06 51.0							
	PCU	eP		14 20 22.9				90			Local.
		ePg		14 20 41.2							
		eL		14 20 50.0							
	UBO	ePn		14 21 02.2	0.4		1.0	162	218		
		ePg		14 21 04.8							
		eLg		14 21 23.6							
	PCU	eP		15 27 17.4				45			South of Sunnyside, Utah.
		ePg		15 27 18.9							
		eL		15 27 28.4							
	UBO	eP		15 27 41.2	0.5		1.3	156			
		eLg		15 28 00.8							
	DUG	ePn		17 57 32.9				505			Regional.
		ePg		17 57 45.0							
		eL		17 58 49.1							
	DUG	eP*		21 56 45.0	0.6		15.8				Bingham blast.
	UBO	ePn		23 03 17.7	0.5		3.5	223	NNE	3.0	Local Mag. 3.0 (UBO).
		eLg		23 03 46.3							
	UBO	ePn		23 10 46.7	0.4		0.4	185	E	2.0	Local Mag. 2.0 (UBO).
		ePg		23 10 48.3							
		eLg		23 11 11.5							
13	FGU	ePn		00 46 34.3				334			Yellowstone National Park, Wyoming
		eLg		00 47 19.8							44.05 N, 110.41 W 00 45 45.08
	GMU	ePn		00 46 38.7				384			h = 33 km Mag. 3.9 (NOS), 4.0 (UBO).
		eP*		00 46 44.9							
		ePg		00 46 50.9							
		eLg		00 47 32.1							
	UBO	ePn		00 46 41.6	0.3		4.0	396	358	4.0	
		ePg		00 46 53.1							
		eLg		00 47 37.5							
	DUG	eP		00 46 48.5	0.7		22.1			3.9	

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 13 (con't)	FGU	ePn		00 49 25.8			323			Central Wyoming.
		eLg		00 50 08.6						
	GMU	ePn		00 49 27.9			378			
		eP*		00 49 33.4						
		ePg		00 49 39.7						
		eLg		00 50 20.0						
	UBO	e(Pg)		00 49 40.7			323			
		eLg		00 50 24.4						
	UBO	ePn		01 25 47.1	0.4	0.6	396	N	3.1	Central Wyoming Mag. 3.1 (UBO).
		ePg		01 25 58.0						
		eSn		01 26 28.6						
		eLg		01 26 42.0						
	GMU	e(Pn)		01 25 49.5			345			
		eP*		01 25 53.1						
		ePg		01 25 59.0						
		eLg		01 26 37.5						
	UBO	ePn		01 58 06.2	0.2	1.1	205	E	3.2	Central Wyoming Mag. 3.2 (UBO).
		ePg		01 58 09.7						
		eLg		01 58 34.1						
	GMU	e(Pn)		01 58 32.7			350			
		eLg		01 59 21.8						
	GMU	ePn		02 14 16.9			267			Central Wyoming Mag. 3.1 (UBO).
		eP*		02 14 22.0						
		ePg		02 14 27.9						
		eLg		02 15 08.0						
	UBO	ePn		02 14 16.9	0.4	0.6	390		3.1	
		ePg		02 14 28.4						
		eLg		02 15 12.6						
	DUG	eP		02 14 24.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 13 (con't)	FGU	ePn		02 58 59.8				312			Central Wyoming Mag. 3.1 (UBO).
		eLg		02 59 42.0							
	GMU	ePn		02 59 00.2				378			
		eP*		02 59 05.3							
		ePg		02 59 11.2							
		eLg		02 59 52.3							
	UBO	ePn		02 59 03.2	0.3		0.4	390	N	3.0	
		ePg		02 59 13.3							
		eLg		02 59 57.5							
	DUG	eP		02 59 09.0							
	UBO	ePn		07 51 22.9	0.4		1.0	220	202		Central Wyoming.
		ePg		07 51 26.9							
		eLg		07 51 50.9							
	GMU	e(Pn)		07 51 27.4				367			
		eP*		07 51 32.2							
		e(Pg)		07 51 36.2							
		e(Lg)		07 52 18.0							
	UBO	ePn		11 44 24.9	0.5		1.3	220	SSW		Local.
		ePg		11 44 29.0							
		eLg		11 44 53.1							
	GMU	e(Pn)		11 44 29.4				318			
		eP*		11 44 34.3							
		ePg		11 44 41.0							
		eLg		11 45 12.5							
	DUG	eP		17 12 03.5				456			Local.
		eL		17 12 55.3							
14	PCU	eP		03 10 04.2				45			South of Sunnyside, Utah Mag. 2.0 (UBO).
		ePg		03 10 07.9							
		eL		03 10 15.0							
	UBO	ePn		03 10 26.4	0.4		0.6	160	SW	2.0	
		ePg		03 10 28.8							
		eLg		03 10 47.6							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 14 (con't)	PCU	eP		04 10 43.9			45			South of Sunnyside, Utah Mag. 2.0 (UBO).
		ePg		04 10 47.4						
		eL		04 10 54.9						
	UBO	ePn		04 11 06.1	0.4	0.6	158	SW	2.0	
		ePg		04 11 08.1						
		eLg		04 11 26.4						
	PCU	eP		05 23 29.9			45			South of Sunnyside, Utah.
		ePg		05 23 33.4						
		eL		05 23 40.9						
	UBO	eP		05 23 54.4	0.4	1.0	145			
		eSur		05 24 12.8						
	PCU	eP		05 54 00.9			45			South of Sunnyside, Utah.
		ePg		05 54 04.7						
		eL		05 54 11.9						
	UBO	ePg		05 54 24.4	0.5	1.5	156	SW		
		eLg		05 54 44.0						
	PCU	eP		07 05 20.2			45			South of Sunnyside, Utah.
		ePg		07 05 23.5						
		eL		07 05 31.2						
	UBO	eP		07 05 44.8	0.4	0.8	134	SW		
		eSur		07 06 00.4						
	PCU	eP		07 07 12.9			45			South of Sunnyside, Utah.
		ePg		07 07 17.5						
		eL		07 07 23.9						
	UBO	eP		07 07 37.1	0.5	2.2	134	SW		
		eLg		07 07 54.9						
	PCU	eP		11 22 06.2			45			South of Sunnyside, Utah Mag. 1.9 (UBO).
		ePg		11 22 10.5						
		eL		11 22 17.2						
	UBO	ePn		11 22 27.7	0.3	0.4	163	SW	1.9	
		ePg		11 22 30.2						
		eLg		11 22 49.1						
	UBO	ePn		11 36 01.8	0.2	1.9	223	SE	3.2	Southern Utah-Colorado Border Mag. 3.2 (UBO).
		eLg		11 36 30.8						
	GMU	ePn		11 36 31.1			340			
		eLg		11 37 17.6						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 14 (con't)	PCU	eP		17 25 36.9			45			South of Sunnyside, Utah Mag. 2.0 (UBO).
		ePg		17 25 39.9						
		eL		17 25 48.0						
	UBO	ePn		17 25 58.8	0.4	0.6	167	SW	2.0	
		ePg		17 26 01.0	0.6	4.5				
		eLg		17 26 20.8						
	PCU	eP		20 19 48.7			45			South of Sunnyside, Utah Mag. 1.7 (UBO).
		ePg		20 19 53.4						
		eL		20 19 59.7						
	UBO	ePn		20 20 11.5	0.4	0.4	153	SW	1.7	
		ePg		20 20 14.2						
		eLg		20 20 30.9						
15	GMU	ePg		15 49 45.8			78			Local.
		eS		15 49 53.3						
	UBO	eP		15 50 06.7	0.4	0.6	140			
		eSur		15 50 26.4						
	SLC	eP		16 01 06.6			67			*Near Echo City, Utah 40.95 N, 111.46 W
		ePg		16 01 09.0						16 00 59.8 h = 0 km Mag. 2.0 (5 sta).
		eL		16 01 13.3						
	GMU	ePg		16 01 08.2			78			
		eL		16 01 15.9						
	DUG	ePn		16 01 23.2			160		*2.0	
		ePg		16 01 38.9						
		eL		16 01 45.0						
	PCU	ePg		16 01 25.6			189			
		eL		16 01 51.4						
	UBO	ePn		16 01 27.5	0.2	0.6	163	NW	2.2	
		ePg		16 01 31.4						
		eLg		16 01 48.9						
	GMU	ePg		16 03 27.1			78			Local.
		eS		16 03 34.7						
	DUG	eP		16 03 45.0			150			
		eL		16 04 05.5						
	UBO	ePg		16 03 50.3	0.5	2.0	145	WNW		
		eLg		16 04 07.5						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 15 (con't)	PCU	eP		17 04 17.0				45			*Near Wattis, Utah 39.52 N, 111.02 W
		ePg		17 04 18.2							17 04 13.6 h = 0 km (4 sta).
		eL		17 04 28.0							
	GMU	eP		17 04 35.6				145			
		ePn		17 04 36.4							
		eSn		17 04 53.3							
	UBO	eP		17 04 39.0	0.5		1.5	167			
		eSur		17 04 59.6							
	DUG	eP		17 04 41.0							
	DUG	eP*		21 59 47.1	0.6		12.6				Bingham blast.
16	PCU	eP		07 29 09.6				53			Near Price, Utah.
		ePg		07 29 14.4							
		eL		07 29 20.6							
	GMU	eP*		07 28 09.7				78			
		ePg		07 28 10.0							
		eLn		07 28 20.0							
	UBO	eP		07 29 34.6	0.4		1.0	145			
		eSur		07 29 52.0							
	UBO	ePn		16 38 32.7	0.2		0.6	225	270	2.7	Local Mag. 2.7 (UBO).
		eP*		16 38 33.8	0.5		2.8				
		eLg		16 39 00.4							
17	DUG	eP		15 21 23.5	0.5		0.9	250			South of Teasdale, Utah.
		eL		15 21 47.0							
	UBO	ePn		15 21 45.9	0.6		4.0	275	221		
		eLg		15 22 22.2							
	DUG	eP		15 23 54.1				256			South of Teasdale, Utah.
		eL		15 24 18.9							
	UBO	ePn		15 24 17.4	0.4		2.8	280	SW		
		eLg		15 24 53.1							
	GMU	eP*		17 42 18.9							Local.
		ePn		17 42 20.2				156			
		eLg		17 42 40.2							
	UBO	ePn		17 42 22.5	0.3		3.0	189	N		
		eLg		17 42 47.2							
	UBO	eP		17 53 27.9	0.3		2.0	18	59		Northwest of Jensen, Utah (4 miles)
		eS		17 53 29.6							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 18	FGU	ePg		09 10 03.9			40			Near East Park Reservoir, Utah.
		eS		09 10 08.6						
	UBO	eP		09 10 08.4	0.3	5.2	89	N		
		eS		09 10 16.5						
	GMU	ePn		09 10 25.9			156			
		eLg		09 10 45.4						
	UBO	ePn		09 28 14.5	0.3	0.6				Local.
		eSur		09 29 27.4						
	GMU	ePn		09 28 48.0			212			
		ePg		09 28 51.0						
		eLg		09 29 15.9						
	DUG	eP		09 29 03.2						
	GMU	ePn		09 42 56.7			212			Local.
		eLg		09 43 24.6						
	UBO	eP		09 43 03.8	0.5	0.9	315			
		eLg		09 43 39.8						
	UBO	ePn		11 49 39.8	0.2	0.6	240			Local.
		ePg		11 49 40.8						
		eLg		11 50 07.4						
	GMU	ePn		11 50 12.3			300			
		eLg		11 50 53.7						
	GMU	eP*		18 41 02.4			156			Local.
		ePn		18 41 03.9						
		eLg		18 41 24.3						
	UBO	ePn		18 41 06.2	0.3	3.2	162	ENE		
		eLg		18 41 29.9						
	UBO	eP		22 05 44.9	0.3	1.2	145			Local.
		eSur		22 06 03.6						
	GMU	ePn		22 05 48.9			161			
		eLg		22 06 10.0						
	GMU	eP*		22 40 36.3						Local.
		ePn		22 40 37.4			167			
		eLg		22 40 59.4						
	UBO	eP		22 40 40.0	0.3	6.8				
		eSur		22 41 04.6						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 19	CCU	ePn		15 00 41.7				280			Southern Nevada Mag. 4.6 (U. of U.).
		ePg		15 00 46.7							
		eL		15 01 19.7							
	DUG	ePn		15 01 05.3				456		*4.6	
		ePg		15 01 19.0							
		eL		15 02 11.0							
	GMU	ePn		15 01 17.7				545			
		ePg		15 01 32.4							
		eLg		15 02 37.3							
	SLC	eP		15 01 18.6				567			
		ePg		15 01 36.1							
		e		15 01 43.4							
		eLg		15 02 41.8							
	UBO	ePn		15 01 34.8	0.8		11.7	590	222		
		ePg		15 01 52.7							
		eSur		15 03 11.4							
	FGU	ePn		15 01 40.5				656			
		eLg		15 03 19.3							
	CCU	ePn		15 24 31.7				330			Southern Nevada.
		ePg		15 24 36.0							
		eL		15 25 16.5							
	DUG	ePn		15 25 08.1				434			
		ePg		15 25 20.0							
		eL		15 26 10.0							
	SLC	eP		15 26 23.6				440			
		ePg		15 26 31.6							
		eL		15 27 26.5							
	UBO	ePn		15 25 25.1	1.0		5.4	590	SW		
		ePg		15 25 43.6							
		eSur		15 27 07.4							
	GMU	eP*		18 12 54.0							Local.
		ePn		18 12 55.2				178			
		eLg		18 13 17.4							
	UBO	ePn		18 12 57.6	0.3		3.0	189	NNW		
		eLg		18 13 22.3							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 20	FGU	~~ePn~~		07 17 49.7			318			Central Wyoming.
		eLg		07 18 32.5						
	UBO	eP		07 17 57.7	0.3	9.3	350	NE		
		eSur		07 18 40.0						
	GMU	ePn		07 18 31.8			401			
		eLg		07 19 28.5						
	UBO	eP		11 07 51.5	0.5	285.0	78	144	4.4	Rangely, Colorado Mag. 3.0 (U. of U.).
		(e)		11 07 55.7						
		e		11 08 01.8						
	FGU	ePg		11 07 56.8			83			
		eS		11 08 07.6						
	GMU	ePn		11 08 20.6			206			
		eLg		11 08 47.7						
	DUG	eP		11 08 31.0			367		*3.0	
		eP		11 08 39.0						
		eL		11 09 21.0						
	GMU	eP		18 23 16.2			90			Local.
		ePg		18 23 18.9						
		eLg		18 23 26.7						
	UBO	eP*		18 23 47.1	0.4	8.4	245	W		
		eLg		18 24 15.1						
	FGU	ePn		22 59 29.3			212			Southern Wyoming.
		eLg		22 59 53.1						
	GMU	eP		22 59 47.8			289			
		ePg		22 59 55.4						
		eL		23 00 32.8						
	UBO	eP		22 59 49.6	0.2	1.6	245	NE		
		eLg		23 00 11.8						
	DUG	ePn		23 07 24.9			267			Local.
		ePg		23 07 30.0						
		eL		23 07 56.8						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 21	DUG	eP		17 24 37.0			440		4.2	Nevada 39.18 N, 118.08 W 17 23 29.44 h = 0 km Mag. 4.2.
		eP		17 24 52.1						
		eL		17 25 43.0						
	GMU	eP		17 25 04.3			440			
		eL		17 26 07.6						
	UBO	eP		17 25 12.4	0.7	0.9	723			
		eLg		17 27 01.0						
23	DUG	eP		06 11 13.2			560			Regional.
		eL		06 12 22.0						
	DUG	eP		06 14 59.5			560			Regional.
		eL		06 16 05.1						
	DUG	eP		08 46 22.6					4.7	Off Coast of Oregon 44.31 N, 128.83 W 08 43 22.51 h = 33 km Mag. 4.7.
	DUG	eP*		18 41 35.0	0.6	13.4				Bingham blast.
	DUG	ePn		20 34 52.4	0.7	3.2	445			Local.
		ePg		20 35 03.5						
		eLg		20 35 57.0						
24	PCU	eP		02 10 23.8			90			*Hiawatha, Utah 39.45 N, 111.04 W 02 10 19.7 h = 0 km (4 sta).
		ePg		02 10 28.2						
		eL		02 10 34.8						
	GMU	ePg		02 10 42.6			156			
		eL		02 11 03.9						
	UBO	ePn		02 10 46.1	0.4	1.2	167			
		ePg		02 10 48.7						
		eLg		02 11 07.7						
	DUG	eP		02 10 47.5			203			
		eL		02 11 15.8						
	PCU	eP		07 00 24.0			90			*Wattes, Utah 39.49 N, 111.02 W 07 00 20.3 h = 0 km (4 sta).
		ePg		07 00 28.3						
		eL		07 00 35.0						
	GMU	eP		07 00 42.7			153			
		eL		07 01 04.5						
	UBO	ePn		07 00 46.2	0.4	1.0	156	SSW		
		ePg		07 00 48.7						
		eLg		07 01 05.3						
	DUG	eP		07 00 48.0			169			

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 24 (con't)	CCU	eP		16 48 22.2			145			Western Arizona 36.35 N, 112.27 W
		ePg		16 48 24.5						16 47 55.98 h = 6 km Mag. 3.0 (NOS).
		eL		16 48 40.7						
	PCU	ePn		16 48 58.7			350			
		ePg		16 49 01.7						
		eL		16 49 47.7						
	DUG	eP		16 49 06.2			467		3.0	
		ePg		16 49 08.9						
		eL		16 50 03.0						
	UBO	ePn		16 49 08.4	0.3	0.6	467	SW		
		e(Pg)		16 49 20.5						
		eLg		16 50 16.3						
	FGU	ePn		16 49 23.8			495			
		eLg		16 50 35.5						
	DUG	ePn		17 50 50.0			445			Local.
		ePg		17 50 59.9						
		eL		17 52 01.3						
	FGU	ePn		23 03 19.6			180			Local.
		eLg		23 03 43.2						
	UBO	eP		23 03 30.2	0.3	2.0	230			
		eLg		23 04 00.5						
	GMU	ePn		23 03 37.3			412			
		ePg		23 03 44.4						
		eL		23 04 31.7						
Nov 25	UBO	ePn		20 08 50.2	0.6	2.0	280			Local.
		eLg		20 09 28.2						
	DUG	ePn		20 09 00.1			401			
		ePg		20 09 13.0						
		eL		20 09 57.5						
	CCU	eP		21 50 10.7			267			Southern Nevada 37.75 N, 116.03 W
		ePg		21 50 18.2						21 49 27.28 h = 5 km.
		eL		21 50 45.7						
	DUG	eP		21 50 35.0			401			
	UBO	eP		21 51 08.0	0.5	0.4	523			
		eSur		21 52 25.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 26	FGU	ePn		00 11 51.5			206			Central Wyoming.
		eLg		00 12 18.3						
	UBO	ePn		00 12 02.7	0.2	3.0	223			
		eLg		00 12 31.1						
	PCU	ePn		00 12 14.9			334			
		ePg		00 12 20.7						
		eL		00 13 00.2						
	GMU	ePn		00 12 30.6			329			
		eP*		00 12 35.7						
		eLg		00 13 15.1						
	DUG	iP	D	03 14 28.9	1.0	100.0	1278		5.6	Off Coast of Oregon 43.77 N, 127.45 W
	GMU	ePn		03 14 35.6			1167	270		03 11 42.83 h = 14 km Mag. 5.6.
		eP*		03 14 50.0						
		ePg		03 16 12.1						
		eLg		03 17 40.0						
	FGU	ePn		03 14 46.7						
		eLg		03 17 50.0						
	PCU	eP		03 14 50.9						
	SLC	eP		22 38 27.1			60			*Southeast of Farmington, Utah (5 sta)
		ePg		22 38 30.0						40.49 N, 111.71 W 22 38 24.9
		eL		22 38 34.4						h = 0 km Mag. 2.2 (U. of U.).
	GMU	iPg	C	22 38 32.6			56	315		
		eS		22 38 37.5						
	DUG	ePn		22 38 47.6			140		*2.2	
	PCU	eP		22 38 50.8			138			
	UBO	ePn		22 38 55.6	0.4	1.0	177	NW	2.3	
		eLg		22 39 17.0						
27	UBO	eP		00 04 03.5	0.3	1.2	53	02	1.0	Near East Park Lake, Utah Mag. 1.0 (UBO).
		eS		00 04 10.9						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 27 (con't)	PCU	eP		05 43 26.7			45			*Near Sunnyside, Utah 39.50 N, 110.40 W
		ePg		05 43 33.1						05 43 28.5 h = 0 km Mag. 2.5 (5 sta).
		eL		05 43 43.7						
	UBO	ePn		05 43 39.2	0.4	3.6	189	206	2.9	
		eLg		05 44 04.2						
	GMU	eP*		05 43 48.0						
		ePn		05 43 49.2			167	135		
		ePg		05 43 50.2						
		eLg		05 44 11.3						
	FGU	ePn		05 43 49.0			167			
		eLg		05 44 10.7						
	DUG	eP		05 43 58.9					*2.5	
	DUG	eP		11 19 57.0			523		3.5	Western Idaho 44.46 N, 115.61 W
		eL		11 21 02.0						11 18 44.96 h = 33 km Mag. 3.5.
	UBO	eP		11 20 12.7	0.6	0.7	667			
		eLg		11 21 40.4						
	PCU	ePn		13 47 36.0			140			Near Ferron, Utah.
		ePg		13 47 43.5						
		eL		13 47 53.4						
	UBO	e(Pn)		13 47 48.4	0.4	1.0	189			
	GMU	ePn		13 47 58.3	0.4	10.0	167	135		
		eLg		13 48 20.5						
	GMU	ePg		13 56 01.9	0.1	18.0	48			Local Mag. 2.5 (UBO).
		eS		13 56 08.0						
	UBO	ePn		13 56 15.9	0.4	1.2	255	263	2.5	
		eLg		13 56 49.7						
	PCU	eP		13 56 18.7						
	DUG	eP*		18 44 26.2	0.6	17.9				Bingham blast.
	PCU	eP		19 35 25.1			378			Central Utah-Arizona Border Mag. 3.4 (UBO).
		ePg		19 35 38.3						
		eL		19 36 17.2						
	UBO	ePn		19 35 40.6	0.4	1.2	390	SSW	3.4	
		ePg		19 35 51.3						
		eLg		19 36 35.6						
	DUG	eP		20 00 00.1			145			Local.
		eL		20 00 18.9						
	UBO	eP		20 00 25.0	0.4	1.6	200	W		
		eLg		20 00 51.3						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 27 (con't)	GMU	e(Pg)		20 55 05.2			67			Near Morgan, Utah.
		eS		20 55 14.1						
	UBO	ePn		20 55 07.4	0.3	2.8	180	NW		
		eLg		20 55 31.2						
	UBO	ePn		21 51 28.9	0.4	0.4	390		2.9	Local Mag. 2.9 (UBO).
		e(Pg)		21 51 36.4						
		eLg		21 52 31.4						
	UBO	ePn		22 04 54.2	0.4	0.8	390		3.2	Local Mag. 3.2 (UBO).
		ePg		22 05 03.8						
		eLg		22 05 48.0						
	UBO	ePn		22 18 17.6	0.5	2.2	267	60	3.0	Local Mag. 3.0 (UBO).
		eLg		22 18 53.1						
28	GMU	ePn		03 26 16.9			272			Local.
		eP*		03 26 19.0						
		ePg		03 26 22.9						
		eLg		03 26 52.6						
	UBO	eP		03 26 21.1	0.3	1.0	289			
		eLg		03 26 59.7						
	PCU	e(Pn)		07 41 35.0			567			New Mexico 35.03 N, 106.68 W
		ePg		07 41 53.3						07 40 11.57 h = 9 km Mag. 4.5.
		eL		07 43 00.0						
	UBO	ePn		07 41 38.2	0.7	6.6	590	166		
		ePg		07 41 56.0						
		eLg		07 43 05.3						
	FCU	ePn		07 41 45.7			667			
		eLg		07 43 29.0						
	SLC	ePn		07 41 50.1			777			
		ePg		07 42 21.4						
		eL		07 43 49.2						
	GMU	ePn		07 41 51.6			750			
		ePg		07 42 14.6						
		eLg		07 43 45.9						
	DUG	ePn		07 42 01.2			840		4.5	
		ePg		07 42 31.2						
		eL		07 44 11.0						
	LOG	eP		07 42 16.2						
		ePg		07 42 40.7						
		eL		07 44 26.9						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Nov 28 (con't)	DUG	eP		18 45 11.0	0.6	11.0					Bingham blast.
29	DUG	eP		01 53 03.5				434			Local.
		eL		01 54 05.0							
	UBO	eP		01 53 14.8	0.5		0.5	600			
		ePg		01 54 43.7							
	UBO	ePn		05 21 51.2	0.3		3.2	189			Local.
		eLg		05 22 16.6							
	GMU	ePn		05 22 23.8				312			
		eP*		05 22 25.4							
		eLg		05 23 06.0							
	UBO	eP		05 33 36.2	0.4		0.6	156			Local.
		eSur		05 33 56.6							
	GMU	e(P*)		05 33 45.6							
		ePn		05 33 46.4				178			
		eLg		05 34 08.9							
	DUG	eP*		21 58 07.3	0.6		12.6				Bingham blast.
30	GMU	eP*		20 28 22.2							Local.
		ePn		20 28 23.0				156			
		ePg		20 28 24.1							
		eSn		20 28 41.1							
		eLg		20 28 42.5							
	UBO	ePn		20 28 26.1	0.3		5.6	180	NE		
		eLg		20 28 49.9							
	CCU	eP		22 36 02.5				67			Near Cedar City, Utah.
		ePg		22 36 04.2							
		eL		22 36 10.2							
	GMU	eP*		22 36 21.8							
		ePn		22 36 22.8				161			
		ePg		22 36 23.6							
		eLg		22 36 44.0							
	UBO	ePn		22 36 24.8	0.3		5.6	180	N		
		eLg		22 36 49.3							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 1	GMU	ePn		19 59 44.6			156			Local.
		eLg		20 00 04.4						
	UBO	eP		19 59 46.8	0.4	2.6	167			
		eLg		20 00 08.2						
	DUG	eP*		21 50 21.1	0.6	14.2				Bingham blast.
2	FGU	ePn		07 34 28.5			223			Western Colorado.
		ePn*		07 34 30.0						
		ePg		07 34 31.9						
		eLg		07 34 57.0						
	UBO	ePn		07 34 30.0	0.2	2.2	212			
		eLg		07 34 58.4						
	GMU	ePn		07 34 59.8			329			
		eLg		07 35 44.0						
	CCU	eP		12 24 11.9			325			Southern Nevada 35.98 N, 114.78 W
		ePg		12 24 19.3						12 23 33.84 h = 2 km Mag. 3.4 (NOS).
		eL		12 24 49.7						
	DUG	eP		12 24 56.0			448		3.4	
	UBO	e(Pg)		12 25 22.3	1.1	5.2	653			
		eLg		12 26 39.7						
3	CCU	eP		03 47 58.7			200			Eastern Arizona 35.87 N, 111.91 W
		ePg		03 48 00.0						03 37 24.60 h = 5 km Mag. 2.8 (NOS).
		eL		03 48 24.2						
	UBO	ePn		03 48 39.1	0.4	7.9	495	205	4.5	
		e(Pg)		03 48 50.3						
		eSn		03 49 34.2						
		eLg		03 49 51.1						
	DUG	eP		03 48 42.0			476		2.8	
		eL		03 49 42.1						
	GMU	ePn		03 48 58.5			350			
		eLg		03 49 46.9						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 3	CCU	ePn		15 07 42.1			367			Central Nevada Mag. 3.8 (UBO).
(con't)		ePg		15 07 49.5						
		eL		15 08 32.9						
	DUG	ePn		15 08 15.0			401			
		ePg		15 08 26.9						
		eL		15 09 12.8						
	UBO	ePn		15 08 35.3	0.7	1.2	660	SW	3.8	
		e(Pg)		15 08 53.8						
		eLg		15 10 20.6						
	UBO	ePn		16 41 28.6	0.2	1.7	189			Local.
		eLg		16 41 54.6						
	GMU	ePn		16 42 02.5			312			
		eLg		16 42 44.5						
	DUG	eP		18 38 51.5			285			Local.
		eL		18 39 27.9						
	DUG	eP		21 48 46.5	0.6	11.1				Bingham blast.
	UBO	ePn		22 59 38.7	0.3	1.6	234			Local.
		eLg		23 00 09.7						
	GMU	ePn		22 59 46.4			312			
		eLg		23 00 28.0						
4	GMU	iPg	C	00 28 50.6			54			Near Morgan, Utah Mag. 1.9 (U. of U.).
		eS		00 28 58.3						
	DUG	eP		00 29 03.5			140		*1.9	
		eL		00 29 20.1						
	UBO	eP		00 29 22.1			170			
		eLg		00 29 46.4						
	GMU	ePg		08 35 54.5			67			*Near Spanish Fork, Utah 40.09 N, 111.68 W
		eS		08 36 03.5						08 35 45.2 h = 20 Mag. 2.8. (4 sta).
	DUG	eP		08 36 01.0			100		*2.8	
	UBO	ePn		08 36 12.2	0.4	21.4	189	256	3.7	
		e(P*)		08 36 14.2						
		e(Pg)		08 36 16.2						
		eLg		08 36 37.8						
	FGU	ePn		08 36 16.5			200			
		eLg		08 36 42.9						
	CCU	ePn		08 36 26.1			330			
		ePg		08 36 30.6						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 4 (con't)	UBO	eP		19 17 41.4	0.4	30.9		152	169		East of Green River, Utah.
		eLg		19 18 00.6							
	FGU	ePn		19 17 51.0				206			
		eLg		19 18 18.0							
	GMU	ePn		19 18 01.5				234			
		eP*		19 18 03.0							
		ePg		19 18 05.5							
		eLg		19 18 32.9							
	DUG	eP		19 18 11.0				312			
		eL		19 18 53.9							
	DUG	eP		20 16 50.5	0.9		2.0	134			Local.
		eL		20 17 06.0							
	GMU	ePg		20 16 53.2				89			
		eS		20 17 02.0							
	DUG	eP		21 54 47.0	0.6		11.1				Bingham blast.
Dec 5	GMU	ePn		00 11 42.4				229			Local.
		eLg		00 12 11.5							
	UBO	eP		00 11 47.5	0.4		0.6	323			
		eLg		00 12 31.4							
	DUG	ePn		02 17 41.5				445		3.9	Western Idaho 44.46 N, 115.45 W
		ePg		02 17 50.0							02 16 30.91 h = 33 km Mag. 3.9.
		eL		02 18 50.0							
	GMU	ePn		02 17 47.0				406			
		eLg		02 18 46.6							
	UBO	ePn		02 18 00.0	0.7		2.3	580	WNW		
		eLg		02 19 27.0							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 5 (con't)	LOG	ePn		02 55 17.5				367			Western Idaho 44.35 N, 115.49 W
		ePg		02 55 24.6							02 54 16.94 h = 33 km Mag. 4.3.
		eLg		02 56 08.4							
	DUG	eP		02 55 25.0				512		4.3	
		ePg		02 55 41.0							
		eL		02 56 42.0							
	GMU	ePn		02 55 25.6				456			
		eP*		02 55 35.9							
		ePg		02 55 42.3							
		eLg		02 56 31.5							
	FGU	ePn		02 55 40.5				561			
		eLg		02 57 03.3							
	UBO	ePn		02 55 46.6	0.6		11.4	590	300	4.8	
		eLg		02 57 14.4							
	DUG	eP		08 18 57.5				523		3.7	Western Idaho 44.49 N, 115.50 W
		eL		08 20 04.0							08 17 46.02 h = 33 km Mag. 3.7.
	GMU	ePn		08 19 00.0				445			
		eLg		08 20 03.7							
	UBO	eP		08 19 14.9	0.8		1.6	590	WNW		
		eLg		08 20 43.0							
	GMU	eP*		20 15 52.9							Local.
		ePn		20 15 54.0				206			
		eLg		20 16 20.5							
	UBO	e(Pn)		20 16 01.7	0.4		1.6	256	N		
		eLg		20 16 35.6							
	GMU	ePn		20 19 48.4				183			Local.
		eLg		20 20 14.8							
	UBO	e(Pn)		20 19 56.2	0.4		1.2	256	N		
		eLg		20 20 30.9							
	GMU	ePn		20 43 51.4				206			Local.
		eLg		20 44 17.9							
	UBO	eP		20 43 59.7	0.4		0.8	256	N		
		eLg		20 44 33.3							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 5 (con't)	GMU	ePn		20 47 22.8			206			Local.
		ePg		20 47 24.5						
		eLg		20 47 49.4						
	UBO	e(Pn)		20 47 30.5	0.4	1.6	256	N		
		eLg		20 48 02.8						
	DUG	eP		20 47 31.5						
	GMU	e(Pn)		20 53 52.3			212			Local.
		eLg		20 54 20.0						
	UBO	eP		20 54 07.6	0.5	1.1				
		eLg		20 54 35.8						
	GMU	ePn		20 56 20.4			206			Local.
		eLg		20 56 46.7						
	UBO	ePn		20 56 28.1	0.4	0.8	256	N		
		eLg		20 57 02.0						
	GMU	ePn		20 58 03.0			212			Local.
		eLg		20 58 29.6						
	UBO	e(Pn)		20 58 11.2	0.3	0.8	256	N		
		eLg		20 58 44.5						
	GMU	ePn		20 59 00.9			212			Local.
		eLg		20 59 27.5						
	UBO	e(Pn)		20 59 11.1	0.3	1.0	245			
		ePg		20 59 43.5						
	GMU	ePn		21 05 01.6			200			Local.
		eLg		21 05 27.7						
	UBO	e(P)		21 05 14.6	0.4	0.6	227			
		eLg		21 05 44.8						
	GMU	ePn		21 19 37.9			212			Local.
		ePg		21 19 42.1						
		eLg		21 20 04.7						
	UBO	ePn		21 19 45.9	0.4	2.8	256	N		
		eLg		21 20 20.8						
	GMU	ePn		21 23 52.2			212			Local.
		eLg		21 24 18.9						
	UBO	e(Pn)		21 24 00.6	0.3	0.6	256	N		
		eLg		21 24 34.2						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 5 (con't)	GMU	ePn		21 33 42.4				200			Local.
		eLg		21 34 08.4							
	UBO	eP		21 33 50.2	0.4		0.4	210	N		
		eLg		21 34 24.0							
	GMU	ePn		22 10 20.6				212			Local.
		eLg		22 10 47.6							
	UBO	e(Pg)		22 10 36.1	0.5		2.0	223			
		eLg		22 11 05.1							
6	GMU	ePn		03 49 33.3				212			Local.
		eLg		03 49 59.9							
	UBO	eP		03 49 41.0	0.4		0.4	256			
		eLg		03 50 14.8							
	GMU	ePn		05 19 34.6				145			Local.
		eLg		05 19 53.9							
	UBO	ePn		05 19 38.4	0.5		0.9	156	SW		
		eSur		05 19 58.8							
	GMU	ePn		06 16 48.3				223			Local.
		eLg		06 17 16.9							
	UBO	e(Pg)		06 17 05.8	0.5		0.9	212			
		eLg		06 17 34.0							
	GMU	ePn		09 34 58.1				545			Western Idaho 44.48 N, 115.42 W
		eLg		09 36 07.0							09 33 47.46 h = 33 km Mag. 4.3.
	DUG	eP		09 35 02.0	0.8		6.0			4.3	
		ePg		09 35 09.2				534			
		eL		09 36 11.5							
	UBO	eP		09 35 16.6	0.8		6.5	590			
	GMU	ePn		14 54 50.7				283			Local.
		eLg		14 55 38.4							
	UBO	e(Pn)		14 54 51.2	0.3		0.6	378			
		eLg		14 55 43.0							
	FGU	ePn		15 08 22.0				245			Southern Idaho.
		eLg		15 08 53.7							
	GMU	ePn		15 08 26.2				245			
		eLg		15 08 58.2							
	UBO	eP		15 08 30.4	0.3		0.6	267			
		eLg		15 09 05.4							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 6 (con't)	FGU	ePn		15 19 53.0				229			Southern Idaho.
		eLg		15 20 23.0							
	GMU	ePn		15 19 56.3				256			
		eLg		15 20 29.0							
	UBO	eP		15 20 02.3				256			
		eLg		15 20 35.7							
	DUG	eP		15 20 06.5							
	CCU	ePn		16 16 17.7				240			Central Utah-Arizona Border.
		ePg		16 16 20.2							
		eLg		16 16 50.7							
	UBO	ePn		16 16 38.1	0.5		1.3	390	SSW		
		ePg		16 16 48.5							
		eLg		16 17 33.5							
	DUG	eP		16 16 49.5							
7	GMU	ePn		07 40 57.0				161			Local.
		eLg		07 41 18.3							
	UBO	ePn		07 41 00.4				189			
		eLg		07 41 25.6							
	DUG	eP		07 41 02.2							
8	DUG	eP		02 09 18.0						4.1	Off Coast of Oregon 44.61 N, 129.49 W 02 06 10.96 h = 33 km Mag. 4.1.
	FGU	ePn		16 18 30.9				230			North of Bear Lake, Idaho.
		eLg		16 19 00.7							
	UBO	ePn		16 18 34.6	0.4		3.4	290			
		eLg		16 19 14.6							
	GMU	ePn		16 18 35.0				234			
		eP*		16 18 35.9							
		ePg		16 18 39.6							
		eSn		16 18 57.7							
		eLg		16 19 06.3							
	DUG	eP		16 18 41.5				378			
		eL		16 19 34.0							
	DUG	eP		18 41 24.9	0.6		12.6				Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 8 (con't)	DUG	ePn		19 16 56.3			189			Local.
		eP		19 16 58.3						
		eL		19 17 15.3						
	UBO	ePn		19 17 21.1	0.3	2.0	200			
		eLg		19 17 47.2						
	DUG	ePn		22 53 15.2			267			Local.
		ePg		22 53 20.5						
		eLg		22 53 51.5						
	UBO	eP		22 53 52.6	0.4	0.6	589			
		eLg		22 55 01.3						
9	FGU	ePn		01 03 23.7			200			Western Colorado.
		eLg		01 03 50.0						
	UBO	ePn		01 03 25.2	0.2	1.5	200			
		eLg		01 03 51.2						
	GMU	ePn		01 03 58.0			323			
		eLg		01 04 42.0						
	GMU	ePn		08 06 21.0			156			Northern San Rafael Swell, Utah.
		ePg		08 06 22.2						
		eLg		08 06 41.0						
	UBO	ePn		08 06 28.5	0.5	4.2	189	227		
		eLg		08 06 53.6						
	DUG	eP		09 37 27.5					4.0	Northern California 40.18 N, 121.32 W
	UBO	eP		09 38 01.1	0.6	1.0				09 35 50.88 h = 33 km Mag. 4.0.
		eLg		09 40 30.6						
	GMU	ePn		10 11 03.3			167			Local.
		eLg		10 11 25.1						
	UBO	eP		10 11 10.8	0.4	1.0				
		eSur		10 11 37.3						
	FGU	ePn		15 53 21.7			132			Local.
		eLg		15 53 39.0						
	GMU	eP*		15 53 25.0						
		ePn		15 53 25.6			167			
		ePg		15 53 26.5						
		eLg		15 53 44.4						
	DUG	eP*		15 53 21.9						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 9	DUG	eP		22 07 07.9	0.6	11.1				Bingham blast.
(con't)	GMU	ePn		22 11 16.2			156			Local.
		eLg		22 11 36.2						
	UBO	eP		22 11 18.6	0.2	0.7	456			
		e(Pg)		22 11 28.7						
		eSur		22 12 29.1						
	DUG	eP		23 57 14.5						Hebgen Lake Region 44.56 N, 110.95 W 23 56 00.96 h = 10 km.
10	UBO	e(Pn)		22 57 44.1	0.4	2.2	245	ENE		Local.
		eLg		22 58 16.4						
	GMU	ePn		22 57 52.6			300			
		ePg		22 57 59.0						
		eLg		22 58 33.1						
12	DUG	eP		03 17 42.7					4.6	Off Coast of Oregon 43.47 N, 127.03 W 03 15 03.19 h = 33 km Mag. 4.6.
	DUG	eP		07 14 27.0	1.0	40.0			6.1	Western Kazakh SSR 43.85 N, 54.77 E 07 00 57.34 h = 0 km Mag. 6.1.
	UBO	iP	C	13 43 07.9	0.4	14.3	150	169		Near Cisco, Utah.
		eSn		13 43 26.5						
	GMU	ePn		13 43 28.5			234			
		eLg		13 43 59.5						
	UBO	e(Pn)		14 59 35.2	0.2	1.7	189			Local.
		eLg		15 00 00.8						
	GMU	ePn		15 00 07.4			318			
		eLg		15 00 50.2						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 12	FGU	ePn		15 58 11.7				323			Wyoming 43.96 N, 107.54 W
(con't)		eLg		15 58 56.1							15 57 19.12 h = 15 km Mag. 4.9.
	UBO	ePn		15 58 21.3	0.5	5.2		380	22	3.9	
		e(P*)		15 58 28.8							
		eLg		15 59 14.8							
	PCU	ePn		15 58 29.9				490			
		ePg		15 58 51.4							
		eL		15 59 41.5							
	GMU	iPn	C	15 58 30.0				523			
		eP*		15 58 37.8							
		ePg		15 58 44.2							
		eSn		15 59 22.5							
		eLg		15 59 37.5							
	DUG	ePn		15 58 40.9				612		4.9	
		ePg		15 59 01.0							
		eL		16 00 12.2							
	CCU	ePg		15 59 10.5				834			
	DUG	eP*		22 10 26.9	0.6	12.6					Bingham blast.
14	GMU	ePn		03 09 40.0				206			Local.
		eLg		03 10 06.5							
	UBO	eP		03 09 52.6	0.4	0.6		256			
		eSur		03 10 28.0							
	DUG	eP		19 16 03.0						4.6	Southern California 34.32 N, 115.73 W
											19 14 19.40 h = 8 km Mag. 4.6.
15	PCU	eP		02 13 25.5				45			South of Sunnyside, Utah.
		ePg		02 13 28.0							
		eL		02 13 36.5							
	UBO	eP		02 13 48.7				145			
		eLg		02 14 07.5							
	PCU	eP		16 28 08.5				140			Local.
		ePg		16 28 13.0							
		eL		16 28 26.3							
	UBO	e(Pn)		16 28 24.2	0.5	2.2		160			
		eLg		16 28 45.5							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 15 (con't)	GMU	ePn		17 52 32.9				161			Local.
		eLg		17 52 53.4							
	UBO	e(Pg)		17 52 35.0	0.3		1.3	200			
		eLg		17 52 58.0							
	UBO	ePn		22 58 02.5	0.4		2.0	227			Local.
		eLg		22 58 33.1							
	GMU	ePn		22 58 11.6				312			
		eP*		22 58 13.1							
		ePg		22 58 18.3							
		eLg		22 58 53.6							
	GMU	ePn		23 21 14.9				256			Local.
		eP*		23 21 17.4							
		ePg		23 21 20.6							
		eLg		23 21 49.0							
	UBO	ePn		23 21 24.4	0.4		1.0	300			
		eLg		23 22 05.2							
16	CCU	ePg		13 44 37.8				111			Arizona 36.84 N, 113.71 W 13 44 19.21
		eL		13 44 50.7							h = 5 km Mag. 2.6 (NOS).
	CCU	eP		13 47 17.7				122			Western Arizona 36.68 N, 113.75 W
		e(L)		13 47 34.8							13 46 47.31 h = 5 km Mag. 2.2 (NOS).
	CCU	ePn		16 00 41.1				289			Nevada Test Site (AEC) "Artesia"
		ePg		16 00 44.5							37.10 N, 116.01 W 16 00 00.10
		e(L)		16 01 21.5							h = 0 km Mag. 5.1 (CGS), 5.4 (U. of U.).
	DUG	ePn		16 01 02.7				440		*5.4	Yield 20-200 KT.
		ePg		16 01 16.0							
		eL		16 02 06.3							Second Event
	GMU	ePn		16 01 14.3				540			Nevada Test Site (AEC) "Cream" 37.01 N, 116.0
		eP*		16 01 23.2							16 00 00.20 h = 0 km Mag. 5.4 (U. of U.
		ePg		16 01 30.9							Yield less than 20 KT.
		eLg		16 02 33.3							
	PCU	ePn		16 01 14.6				489			
		ePg		16 01 21.8							
		eL		16 02 27.9							
	UBO	ePn		16 01 32.9	0.7		266.0	660	223	5.9	
		ePg		16 01 54.4							
		eLg		16 03 07.9							
	FGU	ePn		16 01 39.3							
		eLg		16 03 12.5							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 16 (con't)	CCU	ePn		16 14 08.3			289			Southern Nevada.
		ePg		16 14 15.3						
		eLg		16 14 47.2						
	DUG	eP		16 14 37.0						
	PCU	ePn		16 14 42.5			523			
		ePg		16 14 55.1						
		eL		16 15 59.6						
	GMU	ePn		16 14 43.3			606			
		ePg		16 14 58.7						
		eLg		16 16 10.8						
	UBO	ePn		16 15 00.2	1.2	13.3	660	223		
		ePg		16 15 21.5						
		e(Lg)		16 16 39.5						
	FGU	ePn		16 15 16.0						
	GMU	e(Pn)		16 17 04.2			434			Local.
		eLg		16 18 06.0						
	UBO	e(Pg)		16 17 33.3	1.3	162.2	456			
		eLg		16 18 33.5						
	DUG	ePn		16 32 37.8			445			Southern Nevada.
		ePg		16 32 50.0						
		eL		16 33 48.2						
	GMU	ePn		16 32 40.7			545			
		eLg		16 34 01.9						
	UBO	ePn		16 32 52.6	1.0	12.5	830			
		e(Lg)		16 34 56.3						
	FGU	eP*		21 30 39.5						Local.
		ePn		21 30 40.5			152			
		eLg		21 30 59.9						
	GMU	eP*		21 30 43.7						
		ePn		21 30 44.8			134			
		ePg		21 30 46.0						
		eSn		21 31 01.0						
	DUG	eP		21 44 00.7	0.6	12.6				Bingham blast.

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp	(Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 16 (con't)	GMU	ePn		22 41 47.2				245			Southern Idaho.
		eLg		22 42 19.3							
	FGU	ePn		22 41 48.7				258			
		eLg		22 42 23.0							
	UBO	ePn		22 41 54.6	0.4	1.0		245	NW		
		eLg		22 42 36.6							
	UBO	ePn		22 58 24.0	0.3	1.6		223			Local.
		eLg		22 58 53.5							
	GMU	ePn		22 58 35.0				294			
		ePg		22 48 38.9							
		eLg		22 59 15.0							
17	DUG	eP		07 14 02.1						5.5	East Kazakh SSR 49.73 N, 78.13 E 07 00 57.42 h = 0 km Mag. 5.5.
	CCU	iPn	C	16 05 41.3				267			Nevada Test Site (AEC) "Carpetbag" 37.13 N, 116.08 W 16 05 00.20 h = 0 km Mag. 5.7 (CGS), 5.6 (U. of U.)
		ePg		16 05 47.2							
		eL		16 06 16.5							
	DUG	ePn		16 06 01.5				450	SW	*5.6	
		ePg		16 06 15.0							
		eLg		16 07 05.8							
	PCU	ePn		16 06 12.6				512			
		e(Lg)		16 07 27.5							
	GMU	ePn		16 06 14.3				523			
		eP*		16 06 22.5							
		ePg		16 06 31.0							
		eSn		16 07 04.5							
		eLg		16 07 31.0							
	UBO	ePn		16 06 33.8	1.2	1346.2		630	230	6.6	
		ePg		16 06 53.4							
		e(Lg)		16 08 08.2							
	FGU	iPn	C	16 06 39.7							
		e(Lg)		16 08 18.0							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 17 (con't)	GMU	ePn		16 22 04.7				512			Regional.
		eP*		16 22 10.0							
		ePg		16 22 21.0							
		eLg		16 23 19.2							
	UBO	ePn		16 22 22.1	1.2	32.4		630	SW		
		ePg		16 22 42.5							
		eLg		16 23 54.9							
	UBO	ePn		20 30 19.6				205			Local.
		eLg		20 30 46.2							
	GMU	ePn		20 30 41.1				329			
		ePg		20 30 55.1							
		eLg		20 30 36.0							
	UBO	eP		23 00 01.7	0.3	2.4		223			Local.
		eLg		23 00 31.4							
	GMU	ePn		23 00 09.0				323			
		ePg		23 00 15.5							
		eLg		23 00 52.9							
	GMU	ePn		23 42 35.2				223			Local.
		ePg		23 42 42.1							
		eLg		23 43 03.9							
	UBO	eP		23 42 44.6	0.4	0.8		315			
		eSur		23 43 27.1							
18	FGU	ePn		06 17 53.9				300			Southern Idaho.
		eLg		06 18 35.3							
	GMU	ePn		06 17 58.7				345			
		ePg		06 18 47.1							
	DUG	eP		06 18 02.7							
	UBO	ePn		06 18 03.0	0.4	1.2		350			
		eLg		06 18 52.3							
	PCU	ePn		06 18 04.8				478			
		ePg		06 18 16.8							
		eLg		06 19 12.6							
	PCU	eP		07 47 12.3				45			South of Sunnyside, Utah.
		ePg		07 47 14.5							
		eL		07 47 23.3							
	UBO	eP		07 47 36.6	0.7	1.7		187			
		eSur		07 47 59.6							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 18 (con't)	PCU	eP		08 01 02.8				45			Probable rockburst near Sunnyside, Utah.
		ePg		08 01 07.5							
		eR		08 01 21.3							
	UBO	ePn		08 01 15.6	0.5		0.7	122			
		eLg		08 01 20.0							
	GMU	ePn		08 01 23.6				183			
		eLg		08 01 47.1							
	DUG	eP		08 22 54.0	0.9		2.0				Southern Nevada 35.98 N, 114.77 W 08 21 30.56 h = 7 km Mag. 3.0 (NOS).
	DUG	eP		09 19 55.2				430		3.7	Southern Nevada 35.99 N, 114.77 W 09 18 33.44 h = 7 km Mag. 3.7.
	GMU	ePg		09 59 02.0				51			Northwest of Strawberry Reservoir, Utah.
		eP*		09 59 03.1							
		eS		09 59 08.8							
	PCU	ePg		09 59 05.4				122			
		eL		09 59 19.9							
	UBO	eP		09 59 13.0	0.2		0.6	134			
		eSur		09 59 28.9							
	CCU	ePn		15 30 41.5				312			Nevada Test Site (AEC) "Baneberry" 37.17 N, 116.10 W 15 30 00.20 h = 0 km Mag. 5.1 (U. of U.).
		ePg		15 30 46.0							
		eLg		15 31 23.0							
	DUG	ePn		15 31 02.3				450	SW	*5.1	
		ePg		15 31 16.0							
		eL		15 32 06.2							
	GMU	ePn		15 31 15.2				523			
		eP*		15 31 20.7							
		ePg		15 31 30.0							
		eSn		15 32 10.4							
		eLg		15 32 32.4							
	PCU	ePn		15 31 15.3				523			
		ePg		15 31 21.1							
		eLg		15 32 23.6							
	UBO	ePn		15 31 33.6	0.2		1.4	610	235	4.3	
		eP		15 31 33.9							
		ePg		15 31 52.7							
		eLg		15 33 06.0							
	FGU	ePn		15 31 39.3				670			
		eLg		15 33 27.5							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 18 (con't)	CCU	ePn		15 47 10.5			340			"Baneberry" Cavity Collapse.
		ePg		15 47 19.5						
		eL		15 47 57.5						
	DUG	eP		15 47 36.0			450	SW		
		ePg		15 47 46.2						
		eL		15 48 37.0						
	PCU	ePn		15 47 36.3			430			
		ePg		15 47 47.6						
		e(Lg)		15 48 37.4						
	GMU	ePn		15 47 42.1			567			
		ePg		15 48 00.4						
		eLg		15 48 07.4						
	UBO	eP		15 48 03.2	1.1	4.3	667			
		eLg		15 49 43.7						
	FGU	eP*		21 16 30.5						Local.
		ePn		21 16 31.5			152			
		eLg		21 16 51.0						
	GMU	eP*		21 16 34.4						
		ePn		21 16 36.0			156			
		ePg		21 16 37.0						
		eLg		21 16 56.0						
20	PCU	eP		23 29 45.5			45		*2.1	South of Sunnyside, Utah Mag. 2.1 (U. of U.).
		ePg		23 29 51.5						
		eL		23 29 56.5						
	UBO	e(P*)		23 30 10.5	0.6	1.7	156			
		eLg		23 30 31.7						
21	PCU	eP		06 23 33.7			45			South of Sunnyside, Utah.
		ePg		06 23 37.7						
		eL		06 23 44.7						
	UBO	e(Pn)		06 23 56.1	0.4	0.4	180	SW		
		ePg		06 23 58.5						
		eLg		06 24 20.6						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 21 (con't)	PCU	eP		09 08 58.5				45		*2.0	South of Sunnyside, Utah Mag. 2.0 (U. of U.)
		ePg		09 09 01.3							
		eL		09 09 09.5							
	UBO	e(Pn)		09 09 21.4	0.3		0.8	180			
		ePg		09 09 23.4							
		eLg		09 09 45.2							
22	UBO	ePn		05 37 08.2	0.3		0.8	212			Southern Utah-Colorado Border.
		eLg		05 37 36.1							
	PCU	ePn		05 37 25.6				270			
		eL		05 38 04.9							
	GMU	ePn		05 37 37.5				300			
		eLg		05 38 18.8							
	GMU	ePn		09 19 56.5				456			Montana 45.31 N, 113.17 W 09 19 49.04 h = 10 km.
		eLg		09 22 01.7							
	DUG	eP		09 21 09.1							
	UBO	ePn		09 21 10.2	0.3		2.0	580			
		e(Lg)		09 22 35.0							
	GMU	ePg		21 14 03.7				67			*West of Payson, Utah 40.03 N, 111.80 W 21 13 53.6 h = 0 km Mag. 2.5 (4 sta)
		eSg		21 14 12.9							
	DUG	eP*		21 14 09.0				78		*2.5	
		eP		21 14 11.0							
		eL		21 14 24.8							
	PCU	eP		21 14 09.5				150			
		eLg		21 14 29.8							
	UBO	ePn		21 14 25.0	0.4		1.6	234	WSW		
		eP*		21 14 26.4							
		eLg		21 14 50.9							
23	PCU	eP		06 39 30.5				45			Probable rockburst near Sunnyside, Utah.
		ePg		06 39 36.1							
		eR		06 39 47.5							
	UBO	ePn		06 38 43.9	0.5		1.5	200	SSW		
		eLg		06 39 11.8							
	GMU	ePn		06 38 52.8				189			
		eLg		06 39 17.7							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Mot Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 23 (con't)	DUG	eP		07 14 27.0	1.0	65.0			6.1	Western Kazakh SSR 43.83 N, 54.85 E 07 00 57.28 h = 0 km Mag. 6.1.
	DUG	eP		08 29 41.2					4.5	Off Coast of Oregon 42.82 N, 129.53 W 08 26 37.39 h = 33 km Mag. 4.5.
	GMU	ePn		12 25 52.5			489			Local.
		eLg		12 27 03.7						
	DUG	eP		12 25 56.0						
	UBO	ePn		23 04 58.6	0.3	2.2	189			East of Moab, Utah.
		eLg		23 05 23.3						
	PCU	ePn		23 05 15.3			270			
		eLg		23 05 51.3						
	GMU	ePn		23 05 26.2			323			
		eLg		23 06 10.4						
24	DUG	eP		04 10 47.2					4.2	Gulf of California 24.90 N, 109.09 W 04 07 02.49 h = 33 km Mag. 4.2.
25	CCU	ePn		11 28 17.5			380			Local.
		eLg		11 29 11.5						
	DUG	eP		11 28 49.5			489			
		eL		11 30 01.0						
	UBO	e(Pn)		13 52 47.4	0.3	1.8	200			West Central Colorado.
		eLg		13 53 15.2						
	PCU	ePn		13 53 06.0			270			
		eLg		13 53 44.5						
	GMU	ePn		13 53 17.3			312			
		eLg		13 53 59.4						
	FGU	ePg		22 31 08.0						North of Vernal, Utah Mag. 1.8 (U. of U.).
	UBO	iP	D	22 31 12.7	0.4	8.3	54	360	2.7	
		eS		22 31 20.2						
	PCU	ePn		22 31 26.7			150			
		ePg		22 31 30.4						
		eL		22 31 46.6						
	DUG	eP		22 31 44.0			167		*1.8	
		eL		22 32 21.0						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 27	PCU	eP		15 50 19.5				45			South of Sunnyside, Utah.
		ePg		15 50 26.8							
		eL		15 50 32.0							
	UBO	eP		15 50 45.3	0.5		0.9	145			
		eSur		15 51 04.4							
29	PCU	eP		12 33 10.7				45			Probable rockburst near Sunnyside, Utah.
		ePg		12 33 16.5							
		eR		12 33 27.6							
	GMU	eP*		12 33 32.8							
		ePn		12 33 33.6				167			
		eLg		12 34 54.6							
	UBO	ePn		12 33 23.7	0.5		2.2	189			
		eSn		12 33 48.9							
	PCU	eP		22 12 15.8				45			Probable rockburst near Sunnyside, Utah.
		ePg		22 12 21.1							
		eR		22 12 33.3							
	UBO	eP		22 12 28.6	0.4		1.0	189			
		eLg		22 12 53.5							
	GMU	eP*		22 12 37.8							
		ePn		22 12 38.3				167			
		eLg		22 13 00.5							
	DUG	eP		23 05 45.4	0.6		11.1				Bingham blast.
30	CCU	ePn		13 05 52.5				463			Central California 35.78 N, 117.59 W
		ePg		13 06 05.3							13 04 49.40 h = 8 km Mag. 4.8.
		eLg		13 07 04.2							
	DUG	ePn		13 06 21.0				645		4.8	
		ePg		13 06 38.5							
		eL		13 07 54.1							
	GMU	ePn		13 06 30.2				703			
		ePg		13 06 54.3							
		eLg		13 08 16.5							
	UBO	ePn		13 06 47.0	1.0		7.1	835			
		ePg		13 07 17.3							
		eLg		13 08 53.6							

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 30 (con't)	CCU	ePn		22 31 32.5			278			Northern Arizona.
		ePg		22 31 36.9						
		eL		22 32 08.5						
	UBO	ePn		22 31 55.5	0.4	2.4	400	195		
		e(P*)		22 32 03.6						
		eLg		22 32 52.3						
	DUG	eP		22 32 10.0						
	FGU	ePn		22 57 57.5			189			Near Hanksville, Utah Mag. 2.9 (U. of U.).
		eLg		22 58 22.0						
	UBO	e(Pn)		22 58 07.0	0.3	0.8	245			
		eLg		22 58 39.4						
	DUG	ePn		22 58 27.1			267		*2.9	
		ePg		22 58 32.1						
		eL		22 59 02.0						
	CCU	ePn		22 58 31.5			278			
		ePg		22 58 35.6						
		eL		22 59 07.0						
31	FGU	ePg		15 52 38.3			31			North of Vernal, Utah.
		eS		15 52 42.0						
	UBO	iP	D	15 52 43.0	0.3	6.8	53			
		eS		15 52 50.4						
	GMU	eP		15 53 21.0						
	PCU	ePn		20 22 39.2			290			Local.
		ePg		20 22 40.9						
		eLg		20 23 20.2						
	GMU	ePn		20 22 51.4			347			
		eP*		20 22 57.9						
		ePg		20 22 59.6						
		eLg		20 23 39.8						

International Seismological Centre

Date 1970	Sta	Phase	Dir	Time (GCT)	Per (sec)	Gnd Amp	Mot (Mu)	Dist (km)	Azim (deg)	Mag	Remarks
Dec 31 (con't)	UBO	eP		21 11 58.0	0.4	195.4		43	23	2.1	*East of Jensen, Utah 40.37 N, 109.22 W
		eS		21 12 03.1							21 11 52.8 h = 10 km Mag. 2.1 (UBO)
	PCU	ePn		21 12 17.3				156			(4 sta).
		ePg		21 12 23.5							
		eL		21 12 38.0							
	GMU	ePn		21 12 23.5				189			
		eP*		21 12 24.5							
		ePg		21 12 26.5							
		eLg		21 12 48.6							
	DUG	eP		21 12 39.0				276			
		eL		21 13 16.0							
	UBO	eP		23 06 27.6	0.4		2.8	230			Local.
		eLg		23 06 57.3							
	GMU	ePn		23 06 34.6				325			
		ePg		23 06 44.4							
		eLg		23 07 19.0							

International Seismological Centre