U. S. DEPARTMENT OF COMMERCE

W. Averell Harriman, Secretary

COAST AND GEODETIC SURVEY

Leo Otis Colbert, Director

SEISMOLOGICAL BULLETIN

MSI - 119

JULY, AUGUST, SEPTEMBER

1944

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The instrumental results of the following stations are tabulated in this report.

**Balboa Heights, Canal Zone.
(The Panama Canal)
*Bermuda.
(Meteorological Station and International Union Geodesy and Geophysics)
(*) *Boulder City, Nevada.
(Bureau of Reclamation, National Park Service)
*Bozeman, Montana.
(Montana State College)
**Burlington, Vermont.
(University of Vermont)
*Butte, Montana.
(Montana School of Mines
*Chicago, Illinois.
(University of Chicago and U. S . Weather Bureau)
*College, Alaska.
(University of Alaska)
*Columbia, South Carolina.
(University of South Carolina)
(*) *Grand Coulee, Washington.
(Bureau of Reclamation, National Park Service)
*Honolulu, Territory of Hawaii.
(University of Hawaii)
*Huancayo, Peru.
(Carnegie Institution of Washington)
*Lincoln, Nebraska.
(Nebraska Wesleyan University)
**Logan, Utah.
(Utah State Agricultural College)
**Montezuma, Chile.
(Smithsonian Institution)
**New Kensington, Pennsylvania.
(Private Station)
(*) *Overton, Nevada.
(Bureau of Reclamation, National Park Service)
**Philadelphia, Pennsylvania.
(The Franklin Institute)
(*) *Pierce Ferry, Nevada.
(Bureau of Reclamation, National Park Service)
*Rapid City, South Dakota.
(South Dakota State School of Mines)
*Salt Lake City, Utah.
(University of Utah)
San Juan, Puerto Rico.
**Seattle, Washington.
(University of Washington)
(*) *Shasta, California.
(Bureau of Reclamation, National Park Service)
Sitka, Alaska.
Tucson, Arizona.
Ukiah, California.
(International Latitude Observatory)

*Indicates a station maintained by a local institution in cooperation with the Coast and Geodetic Survey.

**Indicates a station operating on an independent basis.

(*)Lake Mead Seismological Survey. Results for Boulder City, Overton, Pierce Ferry, Shasta, and Grand Coulee are not published but the data are used in locating epicenters.

All seismogram interpretations are made or revised at Washington except those for Balboa Heights.

Minor quakes are listed at the end of the report.

Greenland Stations: Greenland station records are being transferred directly to Copenhagen and the Geodetic Institute of Copenhagen will resume publication of the seismological bulletin.

Provisional Epicenters

Date 1944	(GCT)	Latitude	Longitude	Region, Focal Depth, and Remarks
July	h m s	° '	° '	
1	10 53 58	33 58 N	116 45 W	By Pasadena. San Andreas Fault, California. Focal depth normal.
2	22 12.4	14½ N	93 W	Guatemala, near coast.
3	5 38 23	35 21 N	117 52 W	By Pasadena. Garlock Fault, California. Felt in southern Owens Valley.
10	13 24.9	14 S	176 W	Samoan Islands region. Depth approximately 150 km.
10	15 47.8	31 S	178 W	Kermadec Islands. Depth slightly less than 100 km.
12	19 30 22	44.7 N	115.2 W	Vicinity of Cascade and Seafoam, Idaho. Felt in Idaho, Montana, Oregon, and Washington.
13	0 14.3	22 S	170 E	South of Fiji Islands.
13	19 50.8	16 N	97 W	Mexico, near southern coast.
16	10 19.1	22 S	175 W	Probable epicenter. South of Tonga Islands. Depth approximately 450 km.
19	10 21.4	35 N	143 E	Honshu, Japan, off east coast.
20	7 26.4	59½ N	152½ W	Alaska, Cook Inlet.
21	12 25.0	42½ N	127 W	Oregon, off coast.
22	2 02 55	33 29 N	116 51 W	By Pasadena. Agua Caliente Fault, California. Focal depth normal.
22	11 28.6	16½ N	95 W	Southern Mexico. Felt at Juchitan and Oaxaca.
23	12 45 15	33 15 N	116 08 W	By Pasadena. Southeast of Clark Dry Lake, California. Focal depth normal.
23	16 13.5	24 S	66 W	Probable epicenter. Northern Argentina. Depth approximately 250 km.
26	9 11 53	33 59 N	116 26 W	By Pasadena. Little San Bernardino Mountains, California. Focal depth normal.
26	22 59 55	33 47 N	118 15 W	By Pasadena. Wilmington, California. Felt. Focal depth normal.
27	0 04.4	54 N	165 W	Aleutian Islands. Unimak Island, off southwest coast. Depth approximately 70 km.

Date 1944	(GCT)	Latitude		Longitude		Region, Focal Depth, and Remarks
July	h m s	° '		° '		
27	8 18.6	12	N	93	E	Bay of Bengal, near Andaman Islands.
Aug. 2	12 28.2	9½	N	84	W	Costa Rica, near coast.
4	22 46 57	32 58	N	116 00	W	By Pasadena. Near Borego Valley, California. Felt. Focal depth normal.
5	1 24.1	13½	S	93	W	Peru, off coast.
5	13 06.9	12½	N	87½	W	Nicaragua, off coast.
7	1 18.9	39.5	N	120.0	W	By Pasadena. Vicinity of Reno, Nevada. Focal depth normal.
7	3 25.3	17½	S	73½	W	Peru, off coast.
7	18 47.3	16	N	97½	W	Mexico, off coast.
7	23 38.2	18	S	74	W	Peru, off coast.
9	4 15 26	19.0	N	67.2	W	Puerto Rico, off coast. Felt at Borinquen Field, Puerto Rico.
9	14 01 05	35 56	N	117 46	W	By Pasadena. East of Little Lake, California. Focal depth normal.
10	1 52 52	51.0	N	130.7	W	British Columbia, off coast.
10	11 31.5	16½	N	96	W	Southern Mexico, Oaxaca.
10	15 27.2	12	S	77	W	Peru, near coast.
12	21 21 20	35 56	N	117 46	W	By Pasadena. East of Little Lake, California. Focal depth normal.
13	6 27 57	35 56	N	117 46	W	Do.
13	8 22.3	50½	N	132	W	British Columbia, off coast.
14	11 07.5	58½	N	153	W	Aleutian Islands. Kodiak Island, off north coast. Depth approximately 100 km.
15	11 47.6	13	N	143½	E	Mariana Islands region. Depth approximately 100 km.
17	2 52 40	34 18	N	117 09	W	By Pasadena. Near Lake Arrowhead, California. Focal depth normal.
18	10 33.4	38	N	140	E	Northern Honshu, Japan. Depth approximately 200 km.
18	19 22.5	21½	S	71	W	Northern Chile, off coast.
21	20 14.6	3	N	31	W	Mid-Atlantic Ocean.

Date 1944	(GCT)	Latitude	Longitude	Region, Focal Depth, and Remarks
Aug.	h m s	° '	° '	
22	18 22 30	34 00 N	116 42 W	By Pasadena. North of Whitewater, California. Focal depth normal.
24	23 37.8	15½ N	93 W	Southern Mexico, off coast. Depth approximately 100 km.
25	7 30 25	34 00 N	116 42 W	By Pasadena. North of Whitewater, California. Felt at Palm Springs and Coachella.
25	12 27.1	18 S	176 W	Tonga Islands region. Depth approximately 250 km.
30	1 14.2	17 S	168½ E	New Hebrides Islands.
30	4 00.8	14½ S	78 W	Peru, off coast. Depth approximately 100 km.
Sept. 3	1 36 45	34 14 N	116 26 W	By Pasadena. Northeast of Morongo Valley, California. Focal depth normal.
3	19 11.5	56 S	123 W	South Pacific Ocean, near Dougherty Island.
3	21 29.6	3 N	71½ W	Colombia, near coast.
3	22 58.6	22½ S	68 W	Northeast Chile. Depth approximately 100 km.
4	12 55 28	33 19 N	116 04 W	By Pasadena. West shore of Salton Sea. Focal depth normal.
5	4 38 44	44 51 N	74 18 W	By Dominion Observatory. Cornwall, Ontario and Massena, New York. Approximately $2,000,000 property damage.
5	8 51.2	44.9 N	74.3 W	Aftershock of Cornwall-Massena quake.
5	15 30.0	18 S	167 W	Tonga Islands region.
6	5 52.4	22 S	172 E	Loyalty Islands region.
9	4 12 20	39 N	107½ W	Western Colorado. Felt.
9	17 32.7	51 N	179 E	Probable epicenter. Aleutian Islands.
9	23 24.8	44.9 N	74.3 W	Aftershock of Cornwall-Massena quake.
11	9 45.4	1 N	127 E	Molucca Islands. West of Gilolo. Possibly slight depth.

Date 1944	(GCT)	Latitude	Longitude	Region, Focal Depth, and Remarks
	h m s	° '	° '	
Sept. 14	2 02 20	37 33 N	118 44 W	By Pasadena. Owens River Gorge. Felt at Long Valley, California.
15	19 20.1	½ S	79 W	Ecuador. Property damage in Cotopai Province (press).
16	22 44.7	42½ N	127 W	California, off northwest coast.
18	19 45 10	34 00 N	115 46 W	By Pasadena. Pinto Mountains. Focal depth normal.
19	13 06.0	54 N	161 E	Foreshock of Kamchatka quake of Sept. 23.
20	14 12 21	33 58 N	116 45 W	By Pasadena. North of Cabazon, California. Focal depth normal.
20	16 39 33	33 50 N	117 40 W	By Pasadena. West of Corona, California. Focal depth normal.
23	12 13 19	53.8 N	161.2 E	Kamchatka, off southeast coast. Slight depth.
23	16 01.3	30 S	177 W	Kermadec Islands region.
24	10 55.8	54 N	161 E	Aftershock of Kamchatka quake of Sept. 23.
24	15 13 40	33 23 N	116 11 W	By Pasadena. Near Clark Dry Lake, California. Focal depth normal.
25	16 15.7	54 N	161 E	Aftershock of Kamchatka quake of Sept. 23.
27	16 25.1	39 N	73 E	U.S.S.R., 250 miles southeast of Tashkent.
29	19 08.2	52 N	171 W	Aleutian Islands.

Seismogram Interpretations

Date and Station	Phase	(GCT) h m s
July 1, H_{P-H} = 10h 53m 58s. Epicenter by Pasadena, 33°58'N. and 116°45'W. San Andreas Fault, north of Cabazon, California. Focal depth normal.		
Tucson	e	10 55 18
	e	55 32
	eL	56 38
	F	11.0
July 1		
Philadelphia	e	11 32 20
	e	36 07
	eL	37 04
	F	12.0
Tucson	e	11 25 10
	e	25 12
	e	33 10
	eL	35 15
	F	12.0
July 2		
Balboa Heights	eP	0 24 47
	iS	25 07
	F	0 28
July 2		
Philadelphia	e(S)	4 07 05
	eL	10 45
	F	4.6
San Juan	e	4 01 49
	eL	06 29
	F	4.7
Tucson	iP	4 00 43
	e	00 51
	eS	07 33
	e	08 34
	eL	11 08
	F	4.6
July 2, Near Samoa Island.		
Philadelphia	e	9 21 05
	eL	23 23
	F	9.6
San Juan	e	9 17 34
	eL	21 54
	F	9.9
Tucson	iP	8 47 42
	e	49 47
	F	8.9

Date and Station	Phase	(GCT) h m s
July 2		
Tucson	eP	9 12 05
	F	9.3
July 2		
Balboa Heights	iP	11 16 32
	iS	17 14
	F	11 20
July 2, H_{P-H} = 22h 12.4m. Epicenter in the region 14½°N. and 93°W. Near coast of Guatemala.		
Bermuda	e	22 20 40
	eL	27 44
	F	23.8
Chicago	e	22 18 24
	eS	22 35
	eL	23 58
	F	23.2
Columbia	e	22 17 20
	e	17 56
	eS	21 33
	eL	23 50
	F	23.2
Huancayo	e	22 23 57
	e	26 25
	eL	31 00
	F	23.4
Philadelphia	eP	22 18 29
	e	22 47
	e	24 38
	eL	27 32
	F	23.5
Rapid City	eS	22 24 50
	eL	27 29
	F	23.0
San Juan	eP	22 17 55
	e	19 09
	e(S)	23 05
	eL	24 11
	F	23.6
Sitka	eP	22 21 40
	eS	29 18
	eL	40 05
	F	23.7
Tucson	iP	22 17 37
	iPP	18 30
	eS	22 07
	eL	25 07
	F	23.4

Date and Station	Phase	(GCT) h m s
July 2, continued		
Ukiah	eS	22 25 22
	eL	31 27
	F	22.8
July 3		
San Juan	eL	4 34 16
	F	4.9
Tucson	e	4 27 26
	e	27 35
	eL	37 42
	F	4.9
July 3, H_{P-H} = 5h 38m 23s. Epicenter by Pasadena, 35°21'N. and 117°52'W. Garlock Fault, California. Felt in southern Owens Valley.		
Salt Lake City	eL	5 42 07
	F	5.9
Tucson	iP	5 40 01
	i	40 08
	e	40 29
	i	40 32
	iL	41 51
	F	5.9
July 4		
San Juan	eL	1 22 25
	F	1.9
July 4		
San Juan	e	3 32 38
	eL	37 48
	F	3.9
Tucson	eP	3 28 35
	eL	42 07
	F	3.9
July 5		
Tucson	eP	9 48 57
	i	49 11
	F	Lost.
July 5		
Columbia	e	9 55 48
	eL	10 00 48
	F	10.3
Huancayo	eL	10 34 22
	F	12.0

Date and Station	Phase	(GCT) h m s
July 5, continued		
San Juan	e	9 52 27
	e	57 09
	eL	10 01 08
	F	10.8
Sitka	eL	10 56 50
	F	11.4
Tucson	eP	9 51 56
	e	51 58
	i	52 11
	e	53 12
	eL	10 02 18
	F	10.6
July 7		
Tucson	iP	6 31 35
	e	37 07
	eL	41 58
	F	6.8
July 7		
Tucson	e	8 04 31
	eL	14 20
	F	8.4
July 7, probably Kermadec Islands region.		
Huancayo	eL	18 09 49
	F	18.8
Tucson	eP	17 38 28
	i	38 44
	i	38 52
	eL	18 13 20
	F	18.8
July 8		
Huancayo	eL	1 39 42
	F	2.1
San Juan	e	1 34 10
	eS	38 42
	eL	40 14
	F	2.3
July 8		
Tucson	iP	9 00 43
	i	00 52
	F	9.1
July 10		
Rapid City	e	2 59 06
	e	3 02 41
	e	07 42
	e	10 24
	F	3.6

Date and Station	Phase	(GCT) h m s
July 10		
Tucson	iP	12 43 22
	i	43 51
	F	12.9
July 10, H_{P-H} = 13h 24.9m. Epicenter in the region 14°S. and 176°W. Near Samoa. Depth approximately 150 km.		
Honolulu	eP	13 32 18
	eS	38 18
	eL	41 28
	F	14.0
Huancayo	e	13 39 53
	eSKS	48 28
	e	50 31
	F	14.0
Sitka	e	13 37 36
	iS	46 36
	eL	56 05
	F	14.5
Tucson	iP	13 36 40
	ipP	37 08
	isP	37 23
	iPS	37 25
	eS	46 15
	eL	14 03 05
	F	14.8
Ukiah	eL	13 55 33
	F	14.8
July 10, H_{P-H} = 15h 47.8m. Epicenter in the region 31°S. and 178°W. Kermadec Islands. Depth slightly less than 100 km.		
College	eSKS	16 11 52
	eL	33 50
	F	17.6
Huancayo	e	16 05 12
	eS	11 40
	ePS	12 38
	eSS	18 52
	eL	31 45
	F	17.3
Montezuma	e	16 14 24
	e	14 55
	i	14 57
	F	16.5
San Juan	eSKS	16 13 16
	eSP	17 29
	e	22 04
	eL	43 15
	F	17.9

Date and Station	Phase	(GCT) h m s
July 10, continued		
Sitka	e	16 03 45
	ePP	04 37
	eSKS	11 33
	e	12 16
	e	12 29
	e	13 31
	eL	34 34
	F	17.4
Tucson	iP	16 00 41
	i	00 49
	i	00 54
	i	01 13
	i	01 41
	e	03 44
	e	04 35
	eS	11 33
	e	12 37
	eSS	17 40
	eL	28 10
	F	17.3
Ukiah	eL	16 27 30
	F	17.2
July 10		
Balboa Heights	iP	22 07 08
	iS	07 17
	F	22 10
July 11		
Tucson	eP	0 41 09
	i	41 16
	i	41 57
	e	42 10
	eL	42 31
	F	0.9
July 11		
Tucson	e	18 45 50
	eL	19 17 14
	F	19.8
July 11		
Tucson	iP	19 43 26
	e	44 56
	F	19.9
July 12		
Tucson	e	7 20 40
	e	20 57
	i	21 40
	iL	21 53
	F	7.5
July 12, probably Atlantic Ocean, northeast of South America.		

Date and Station	Phase	(GCT) h m s
July 12, continued		
Bermuda	eL	8 10 10
	F	Lost.
Chicago	e	8 15 26
	e	18 20
	eL	22 35
	F	9.3
Columbia	e	8 17 47
	e	18 38
	F	Lost.
Huancayo	eL	8 18 25
	F	9.1
Philadelphia	e	8 08 41
	L	16 10
	F	Lost.
Salt Lake City	eL	8 29 17
	F	9.1
San Juan	eP	8 05 21
	e	06 21
	eS	09 22
	iL	11 31
	F	Lost.
Tucson	e	8 11 14
	F	8.4
July 12, probably Atlantic Ocean, northeast of South America.		
Bermuda	eL	8 23 15
	F	9.8
Columbia	eL	8 28 45
	F	9.1
Huancayo	e	8 22 22
	eL	35 12
	F	Lost.
Philadelphia	L	8 16 10
	F	9.4
San Juan	(eP)	8 18 49
	e	19 00
	e(S)	22 11
	eS	22 42
	iL	23 43
	F	9.9
Sitka	e	8 37 13
	e	42 13
	eL	50 10
	F	9.4
Tucson	eP	8 24 33
	e	36 21
	eL	45 53
	F	9.3

Date and Station	Phase	(GCT) h m s
July 12		
Ukiah	eL	15 25 55
	F	15.7
July 12, H_{P-H} = 19h 30m 22s. Epicenter approximately 44.7°N. and 115.2°W. In vicinity of Cascade and Seafoam, Idaho. Felt in Idaho, Montana, Oregon, and Washington.		
Bermuda	eL	19 47 13
	F	20.5
Butte	i	19(33 07)
	i	(33 10)
	i	(33 40)
	F	20.6
Chicago	eP	19 34 56
	eS	38 42
	eL	40 11
	F	20.7
College	e	19 36 08
	eS	40 51
	eL	44 11
	F	20.7
Columbia	eL	19 44 18
	F	20.8
New Kensington	e	19 39 28
	e	41 02
	eL	44 18
	F	20.5
Philadelphia	eS	19 41 42
	L	45 12
	F	21.0
Rapid City	iP	19 32 29
	i	32 58
	eS	34 07
	eL	34 32
	F	19.7
Salt Lake City	eP	19 31 31
	iP	31 33
	eS	32 23
	iS	32 29
	i	32 42
	iL	33 18
	F	20.6
San Juan	eL	19 53 08
	F	20.8
Seattle	eP	19 32 07
	e	32 45
	F	20.0

Date and Station	Phase	(GCT) h m s
July 12, continued		
Sitka	eP	19 34 33
	iP	34 36
	i	34 52
	eS	38 05
	eL	39 14
	F	20.6
Tucson	iP	19 33 28
	i	33 50
	i	35 27
	iS	36 11
	iL	36 52
	F	20.5
Ukiah	eP	19 32 24
	eS	33 58
	eL	34 34
	F	20.7
July 13, H_{P-H} = 0h 14.3m. Epicenter in the region 22°S. and 170°E. South of Fiji Islands.		
Tucson	eP	0 27 33
	iP	27 36
	e	27 50
	eL	56 12
	F	1.6
Ukiah	eL	0 56 22
	F	0.4
July 13		
College	e(P)	10 55 20
	e	11 01 54
	e	02 06
	eL	13 13
	F	12.5
Honolulu	e	11 02 40
	eL	10 10
	F	12.2
Salt Lake City	e	11 07 43
	eL	23 23
	F	12.4
Sitka	e	10 55 30
	e	11 03 32
	eS	05 15
	e	10 02
	eL	16 18
	F	12.2
Tucson	eP	10 58 08
	eL	11 25 13
	F	11.4
Ukiah	e	11 07 08
	eL	16 45
	F	12.3

Date and Station	Phase	(GCT) h m s
July 13, H_{P-H} = 19h 50.8m. Epicenter in the region 16°N. and 97°W. Near southern coast of Oaxaca, Mexico.		
Salt Lake City	eL	20 05 50
	F	20.3
Tucson	iP	19 55 28
	e	56 08
	e	56 21
	eS	59 25
	eL	20 01 30
	F	20.3
July 14		
Tucson	eP	21 26 27
	eL	31 30
	F	21.8
July 15		
Tucson	iP	23 44 59
	eL	0 22 18
	F	0.7
July 16		
Rapid City	e	3 37 09
	e	51 10
	F	4.3
July 16		
Tucson	iP	10 18 34
	e	18 52
	F	10.4
July 16, H_{P-H} = 10h 19.1m. Epicenter in the region 22°S. and 175°W. South of Tonga Islands. Depth approximately 450 km.		
Honolulu	iP	10 32 37
	i	32 54
	iS	36 22
	iSS	37 14
	eL	37 42
	F	11.0
Huancayo	eS	10 40 00
	e	45 47
	F	10.8
San Juan	eSKS	10 43 14
	eSP	46 35
	e	50 14
	F	11.1
Sitka	eS	10 40 29
	e	46 08
	eL	52 13
	F	11.1

Date and Station	Phase	(GCT) h m s
July 15, continued		
Tucson	iP	10 30 47
	epP	32 28
	eS	40 22
	eL	59 59
	F	11.2
July 17, probably east-central Turkey.		
Bermuda	eS	11 16 42
	eL	32 51
	F	12.7
Chicago	e	11 18 48
	eL	33 26
	F	12.4
College	e	11 09 41
	e	15 58
	e(S)	16 38
	eL	26 29
	F	12.4
Huancayo	eL	11 45 38
	F	13.0
Rapid City	eL	11 38 20
	F	12.6
Salt Lake City	e	11 21 16
	eL	42 19
	F	12.8
San Juan	eS	11 18 21
	e	21 26
	e	39 11
	F	13.0
Sitka	eS	11 17 08
	e	18 23
	eL	29 37
	F	12.9
Tucson	e	11 12 23
	eL	44 25
	F	12.7
Ukiah	eL	11 42 25
	F	12.4
July 19		
Tucson	iP	1 08 51
	i	09 12
	e	10 57
	eL	11 50
	F	1.4
July 19, H_{P-H} = 10h 21.4m. Epicenter in the region 35°N. and 143°E. Off east coast of Honshu, Japan.		

Date and Station	Phase	(GCT) h m s
July 19, continued		
Bermuda	e	10 45 14
	eSS	11 00 14
	eL	18 06
	F	Lost.
Butte	e	10(34 29)
	eS	(44 06)
	e	(50 38)
	eL	(56 28)
	F	12.4
Chicago	ePP	10 38 41
	eSKS	45 06
	eS	45 41
	e	47 55
	eSS	51 55
	e	53 06
	eL	59 28
	F	13.4
College	e(P)	10 30 29
	eS	37 49
	eL	44 39
	F	13.2
Columbia	ePP	10 39 28
	eSKS	46 12
	e	54 25
	eL	11 07 13
	F	13.2
Honolulu	eP	10 30 50
	e	33 13
	e	34 10
	eS	38 44
	e	41 04
	eSS	42 14
	eL	44 13
	L max.	11 sec.
	A	8.7 mm.
	F	13.4
Huancayo	e	10 40 23
	e	44 17
	eSS	11 01 02
	F	Lost.
New Kensington	ePP	10 39 02
	e	44 31
	eSKS	45 34
	eL	11 13 23
	F	12.4
Rapid City	eP	10 33 48
	e	35 52
	eS	43 58
	e	48 48
	e	54 07
	eL	11 03 40
	F	13.0

Date and Station	Phase	(GCT) h m s
July 19, continued		
Salt Lake City	eP	10 33 34
	e	36 44
	eS	43 30
	e	50 51
	eL	55 20
	F	13.0
San Juan	e	10 41 27
	e	42 28
	e	45 49
	ePS	51 52
	e	53 48
	eSSS	11 03 27
	eL	15 16
	F	13.0
Seattle	e	10 39 22
	eS	41 20
	eL	52 13
	F	12.2
Sitka	(eP)	10 31 08
	e	33 16
	e	33 40
	eS	39 35
	e	42 52
	eL	46 05
	F	14.2
Tucson	e	10 33 54
	e	36 26
	ePP	37 17
	eS	44 26
	eSS	49 38
	eL	55 41
	F	13.6
Ukiah	eP	10 33 00
	eS	42 26
	eL	52 30
	F	14.6
July 19		
Huancayo	e	11 09 20
	i	10 34
	e(S)	17 45
	e	22 40
	eL	25 00
	F	12.9
Tucson	iP	11 16 26
	F	11.4
July 19		
San Juan	eL	16 39 24
	F	17.2
Tucson	eP	16 35 20
	iP	35 22
	e	43 00
	eL	44 27
	F	17.2

Date and Station	Phase	(GCT) h m s
July 19		
Huancayo	eL	18 15 00
	F	18.7
San Juan	e	18 00 18
	eL	10 32
	F	19.9
Sitka	eL	18 28 36
	F	19.0
Tucson	iP	18 04 41
	e	05 57
	eS	10 06
	e	12 21
	eL	14 08
	F	18.8
July 19		
Tucson	eL	23 56 04
	F	0.2
July 20		
Butte	eL	2(38 50)
	F	3.9
Honolulu	eL	2 45 22
	F	3.0
Rapid City	eP	2 35 01
	eL	41 45
	F	2.9
Salt Lake City	e	2 37 28
	eL	39 20
	F	3.0
Seattle	eL	2 31 28
	F	2.8
Sitka	eL	2 34 37
	F	3.1
Tucson	eP	2 42 03
	i	42 19
	i	42 23
	iL	42 39
	F	3.1
July 20, H_{P-H} = 7h 26.4m. Epicenter in the region 59½°N. and 152½°W. Cook Inlet, southern Alaska.		
College	e(P)	7 27 51
	eS	28 31
	eL	28 50
	F	7.8
Sitka	eP	7 28 43
	eS	30 26
	eL	31 20
	F	7.9

Date and Station	Phase	(GCT) h m s
July 20		
Sitka	eL	20 31 27
	F	21.5
Tucson	eP	20 19 55
	eL	48 05
	F	21.5
July 21, H_{P-H} = 12h 25.0m. Epicenter in the region 42½°N. and 127°W. Off coast of Oregon.		
Butte	eP	12(27 43)
	eL	(30 17)
	F	13.0
Chicago	eS	12 36 07
	eL	41 03
	F	13.2
Rapid City	eP	12 29 04
	e	33 40
	eL	35 06
	F	13.0
Salt Lake City	eP	12 27 45
	e	30 36
	eL	32 04
	F	13.0
Seattle	e	12 26 45
	F	13.0
Sitka	e	12 28 51
	eS	31 58
	eL	32 25
	F	13.4
Tucson	iP	12 28 53
	e	29 15
	eS	32 19
	eL	33 27
	F	13.0
Ukiah	eL	12 26 05
	F	13.2
July 21		
Tucson	iP	19 03 30
	e	06 56
	eL	40 45
	F	19.8
July 22, H_{P-H} = 2h 02m 55s. Epicenter by Pasadena, 33°29'N. and 116°51'W. Agua Caliente Fault, near Aguanga, California. Focal depth normal.		

Date and Station	Phase	(GCT) h m s
July 22, continued		
Tucson	e	2 04 35
	eL	06 02
	F	2.1
July 22, H_{P-H} = 11h 28.6m. Epicenter in the region 16½°N. and 95°W. Felt at Juchitan and Oaxaca, Mexico.		
Chicago	eP	11 34 02
	e	34 22
	e	34 45
	eS	38 24
	eL	39 11
	F	12.0
New Kensington	eL	11 38 38
	F	12.0
Rapid City	eP	11 34 29
	e	34 41
	e	40 10
	eL	44 01
	F	12.0
Salt Lake City	eP	11 34 43
	e	39 28
	e	40 19
	eL	44 10
	F	12.2
San Juan	e	11 35 08
	e	35 40
	eS	39 45
	eL	42 53
	F	12.1
Tucson	iP	11 33 22
	i	33 38
	e	33 52
	e	36 51
	iS	37 17
	eL	39 44
	F	12.3
July 22		
Tucson	iP	11 56 51
	i	57 05
	i	57 33
	F	12.1
July 22		
Tucson	eP	23 17 57
	i	18 09
	i	18 24
	i	19 05
	iL	19 29
	F	23.5

Date and Station	Phase	(GCT) h m s
July 23		
Tucson	eP	2 41 18
	i	41 25
	i	42 32
	iL	42 53
	F	3.0
July 23, H_{P-H} = 12h 45m 15s. Epicenter by Pasadena, 33°15'N. and 116°08'W. Southeast of Clark Dry Lake, California. Focal depth normal.		
Tucson	e	12 46 45
	e	47 38
	F	12.8
July 23, H_{P-H} = 16h 13.5m. Epicenter in the region 24°S. and 66°W. Probable epicenter. Northern Argentina. Depth approximately 250 km.		
Huancayo	iP	16 16 58
	i	17 21
	i(S)	19 30
	iL	19 59
	F	16.9
Montezuma	iP	16 14 25
	iS	14 58
	eL	15 11
	F	16.4
New Kensington	eL	16 32 20
	F	16.8
San Juan	e	16 22 35
	e	23 35
	e	26 51
	e	30 15
	eL	32 12
	F	17.0
Tucson	iP	16 24 31
	iPcP	24 50
	ipP	25 29
	e	28 17
	F	16.6
July 24		
Chicago	e	8 28 31
	F	9.0
Honolulu	e	7 46 58
	eL	56 26
	F	8.4
Sitka	eS	7 53 24
	eL	8 10 30
	F	9.1

Date and Station	Phase	(GCT) h m s
July 24, continued		
Tucson	e	7 44 21
	e	47 10
	e(S)	56 11
	eL	8 14 13
	F	9.0
July 26, H_{P-H} = 9h 11m 53s. Epicenter by Pasadena, 33°59'N. and 116°26'W. Little San Bernardino Mountains, California. Focal depth normal.		
Tucson	eP	9 13 16
	i	13 29
	i	13 35
	i	14 08
	iL	14 32
	F	9.2
July 26, H_{P-H} = 22h 59m 55s. Epicenter by Pasadena, 33°47'N. and 118°15'W. Wilmington, California. Felt. Focal depth normal.		
Tucson	e	23 02 07
	eL	03 17
	F	23.1
July 27, H_{P-H} = 0h 04.4m. Epicenter in the region 54°N. and 165°W. Southwest of Unimak Island, Aleutian Islands. Depth approximately 70 km.		
Balboa Heights	eP	0 16 30
	eS	0 26 25
	F	0 33
Bermuda	eP	0 15 33
	iS	24 34
	T	11 sec.
	A	10.8 mm.
	i	28 51
	eL	38 55
	L max.	18 sec.
	A	3.7 mm.
	F	2.7
Butte	eP	0(11 21)
	ePP	(12 13)
	iS	(16 40)
	eL	(18 53)
	F	2.2

Date and Station	Phase	(GCT) h m s
July 27, continued		
Chicago	eP	0 13 19
	ePP	15 21
	eS	20 26
	iS	20 27
	i	21 57
	eScS	23 01
	e	23 30
	eL	29 05
	F	2.5
College	iP	0 07 36
	i	07 42
	i	08 05
	iS	10 21
	iL	11 04
	F	2.2
Columbia	eP	0 14 28
	ePP	16 38
	eS	22 28
	e	22 57
	e	24 07
	eL	29 26
	F	2.3
Honolulu	iP	0 10 58
	T	5 sec.
	A	3.5 mm.
	i	11 16
	e	11 39
	e	12 36
	i	15 45
	iS	16 28
	T	11 sec.
	A	4.3 mm.
	i	16 46
	i	18 21
	iL	19 12
	L 20	20 sec.
	A	19.6 mm.
	L max.	7 sec.
	A	27.5 mm.
	F	2.8
Huancayo	eSKS	0 28 56
	eSS	36 23
	eL	46 47
	F	2.0
New Kensington	eP	0 14 02
	ePP	16 09
	eS	21 30
	e	23 41
	e	25 38
	eL	28 00
	F	2.5
Rapid City	iP	0 12 00
	i	12 18
	e	13 00
	ePP	13 28
	e	17 40
	eS	17 58
	eL	21 15
	F	2.4

Date and Station	Phase	(GCT) h m s
July 27, continued		
Salt Lake City	eP	0 11 36
	iS	17 20
	e	17 49
	i	20 18
	eL	21 01
	F	2.3
San Juan	eP	0 16 35
	i	17 18
	e	18 50
	ePP	19 42
	iS	26 33
	i	27 06
	eS	31 35
	e	32 00
	eL	37 15
	F	2.7
Seattle	eP	0 10 18
	e	14 06
	eS	14 45
	eL	16 45
	F	1.5
	15.6 mm. ground W	
	1.2 mm. ground N	
Tucson	iP	0 12 27
	i	12 38
	ePPP	14 59
	i	15 08
	i	17 57
	e	18 46
	iS	18 57
	e	19 22
	eL	22 10
	F	2.3
Ukiah	eP	0 10 46
	e	11 30
	eS	15 49
	e	16 24
	eL	18 43
	F	3.0
July 27, H_{P-H} = 0h 48.3m. Epicenter in the region 44.7°N. and 115.2°W. Probably aftershock of Idaho quake of July 12. Felt in Idaho.		
Salt Lake City	e	0 49 36
	e	50 35
	eL	50 42
	F	1.0
Tucson	eP	0 51 23
	e	51 52
	eL	55 07
	F	2.1

Date and Station	Phase	(GCT) h m s
July 27		
Balboa Heights	e	2 46 19
	F	2 49
July 27, H_{P-H} = 8h 18.6m. Epicenter in the region 12°N. and 93°E. Bay of Bengal. Near Andaman Islands.		
College	eS	8 42 36
	eL	9 05 23
	F	9.9
Huancayo	eL	9 44 43
	F	10.4
San Juan	e	8 38 08
	e	38 22
	e	41 25
	e	51 17
	eL	9 34 55
	F	10.3
Tucson	iP	8 37 53
	i	38 07
	i	40 22
	i	41 10
	e	47 52
	e	51 42
	eL	9 28 40
	F	10.1
July 27		
San Juan	eP	10 32 29
	i	32 30
	iS	33 02
	iL	34 41
	F	10.8
July 28		
Huancayo	eP	3 34 54
	i(S)	35 16
	F	3.7
July 29		
Ukiah	eL	11 37 56
	F	11.9
July 29		
Honolulu	e	22 34 00
	e	37 05
	e	42 08
	e	47 52
	e(L)	55 25
	F	23.4

Date and Station	Phase	(GCT) h m s
July 29, continued		
Tucson	iP	22 36 15
	i	37 52
	e	39 45
	eL	23 06 30
	F	23.6
July 30		
Tucson	e	3 45 46
	e	49 46
	F	4.0
July 30		
Huancayo	eL	4 53 05
	F	5.4
Tucson	iP	4 14 17
	e	18 04
	e	24 30
	eL	51 51
	F	5.4
July 31		
Balboa Heights	iP	17 24 32
	iS	24 53
	F	17 32
July 31		
Tucson	iP	21 35 40
	eL	45 34
	F	21.9
August 1		
Balboa Heights	iP	4 10 27
	i	10 49
	F	4 13
August 1		
Huancayo	eL	12 44 06
	F	13.2
August 1		
Tucson	iP	15 33 20
	i	33 46
	e(S)	39 44
	eL	41 52
	F	15.8
August 2, H_{P-H} = 12h 28.2m. Epicenter in the region 9½°N. and 84°W. Costa Rica, near coast.		
Balboa Heights	iP	12 29 17
	iS	30 08
	F	12 42

Date and Station	Phase	(GCT) h m s
August 2, continued		
Huancayo	ePP	12 33 44
	eP	34 16
	eS	37 16
	eL	38 35
	F	13.2
Philadelphia	e(S)	12 40 08
	eL	43 50
	F	13.1
San Juan	eP	12 32 41
	i	32 48
	e	33 18
	eS	36 15
	eL	38 12
	F	13.2
Tucson	iP	12 34 50
	i	34 58
	ePPP	36 22
	eL	48 45
	F	13.1
August 2		
Huancayo	eP	16 09 10
	iP	09 13
	e	09 23
	iS	10 13
	eL	10 34
	F	16.3
August 2		
Honolulu	eL	18 05 58
	F	18.6
Tucson	eP	18 01 17
	i	01 26
	eL	26 15
	F	18.8
August 2		
Huancayo	eP	20 14 05
	e	14 26
	eS	17 46
	eL	18 43
	F	Lost.
Montezuma	e	20(15 13)
	e	(34 20)
	F	20.7
August 2		
Tucson	eP	20 30 39
	F	20.6
August 2, Probably near coast of Central Chile.		

Date and Station	Phase	(GCT) h m s
August 2, continued		
Huancayo	eP	20 33 12
	eS	37 16
	eL	38 11
	F	21.0
Tucson	eP	20 40 03
	F	20.7
August 3		
Sitka	e	0 17 38
	eL	38 10
	F	0.9
August 3		
Tucson	e	11 42 57
	i	43 12
	iL	44 11
	F	12.2
August 4		
Tucson	eP	3 20 43
	e	26 33
	eL	28 22
	F	3.6
August 4, H_{P-H} = 6h 46m 57s. Epicenter by Pasadena, 32°58'N. and 116°00'W. Near Borego Valley. Felt, Carrizo Gorge. Focal depth normal.		
Tucson	e	6 48 06
	i	48 17
	i	48 40
	iL	49 26
	F	6.9
August 4		
Ukiah	eL	13 29 40
	F	13.7
August 4		
Tucson	iP	20 00 14
	i	00 29
	eL	10 10
	F	20.2
August 4		
Huancayo	iP	20 30 06
	iS	30 52
	eL	31 28
	F	21.6
Tucson	iP	20 38 54
	i	39 09
	eL	58 13
	F	21.2

Date and Station	Phase	(GCT) h m s
August 5		
Huancayo	eP	1 01 17
	iP	01 20
	e	01 45
	eS	04 38
	eL	05 41
	F	Lost.
Tucson	iP	1 06 06
	i	06 24
	eL	22 02
	F	1.5
August 5, H_{P-H} = 1h 24.1m. Epicenter in the region 13½°S. and 93°W. Peru, off coast.		
Huancayo	iP	1 28 09
	iPP	28 32
	i	28 50
	iS	31 30
	iL	32 16
	F	3.4
Montezuma	eL	1(34 40)
	F	1.9
Philadelphia	P	1 33 47
	eS	41 30
	eSS	45 22
	eL	48 13
	F	2.2
San Juan	eP	1 31 55
	ePP	33 40
	eS	38 14
	eL	41 17
	F	2.2
Tucson	iP	1 32 57
	i	33 24
	eS	40 10
	eL	48 56
	F	2.0
August 5		
Honolulu	e	1 58 21
	F	2.3
August 5		
Columbia	e	5 11 53
	eL	15 53
	F	5.8
August 5, H_{P-H} = 13h 06.9m. Epicenter in the region 12½°N. and 87½°W. Nicaragua, off coast.		

Date and Station	Phase	(GCT) h m s
August 5, continued		
Balboa Heights	eP	13 09 00
	F	13 20
Bermuda	e	14 13 27
	eL	21 18
	F	14.9
Chicago	e	13 13 39
	ePP	13 49
	eS	17 48
	e	18 31
	eL	21 46
	F	13.7
Huancayo	e	13 12 45
	e	13 15
	eS	17 18
	eL	18 36
	F	13.8
Philadelphia	iP	13 12 58
	ePP	13 56
	eS	17 49
	e	18 37
	eL	21 47
	F	13.6
San Juan	eP	13 11 41
	e	12 51
	e	13 15
	eS	15 49
	eL	18 06
	F	13.9
Tucson	eP	13 12 54
	i	13 06
	iPP	13 44
	i	16 01
	eL	18 40
	F	13.7
August 6		
Sitka	e	15 36 38
	eS	37 19
	eL	37 33
	F	15.8
August 6, Probably New Guinea.		
Honolulu	e	16 48 50
	eL	55 27
	F	17.5
Sitka	e(P)	16 43 38
	e	44 29
	eS	54 04
	e	57 47
	eL	17 05 50
	F	17.5
Tucson	eL	17 17 29
	F	17.8

Date and Station	Phase	(GCT) h m s
August 6		
San Juan	e	17 43 17
	e	55 51
	eL	18 25 12
	F	19.5
August 6, Probably western New Guinea.		
Bermuda	eL	19 36 25
	F	20.1
Huancayo	eL	19 33 15
	F	20.0
Philadelphia	e	18 35 28
	e	39 46
	e	52 21
	eL	19 11 30
	F	20.4
Sitka	e(S)	18 32 13
	e	36 20
	e	41 06
	eL	47 00
	F	19.6
Tucson	e	18 31 50
	eL	19 03 55
	F	20.1
August 6		
Bermuda	e	23 34 40
	i(S)	41 46
	i	43 01
	eL	45 48
	F	0.2
August 7		
Tucson	iP	0 11 46
	i	12 06
	e	18 01
	eL	20 03
	F	0.5
August 7, H_{P-H} = 1h 18.9m. Epicenter by Pasadena, 39.5°N. and 120.0°W. Vicinity of Reno, Nevada. Focal depth normal.		
Tucson	eL	1 24 47
	F	1.4
August 7, H_{P-H} = 3h 25.3m. Epicenter in the region 17½°S. and 73½°W. Peru, off coast.		

Date and Station	Phase	(GCT) h m s
August 7, continued		
Balboa Heights	eP	3 30 54
	eS	35 46
	eL	40 54
	F	4 10
Butte	eP	3(35 22)
	ePP	(38 08)
	eS	(44 43)
	e	(45 24)
	eL	(53 13)
	F	5.4
Chicago	eP	3 35 25
	iS	43 26
	i	45 13
	eL	51 55
	F	6.1
College	e	3 42 49
	eSKS	49 39
	eS	50 21
	e	54 48
	eL	4 03 40
	F	5.8
Columbia	eP	3 34 23
	ePP	36 25
	eS	41 35
	eScS	44 09
	eL	46 55
	F	4.9
Honolulu	eSKS	3 49 14
	e	55 50
	eL	4 06 16
	F	5.8
Huancayo	eP	3 26 39
	iP	26 40
	F	6.5
Montezuma	e(S)	3 29 25
	eL	30 14
	F	4.6
New Kensington	eP	3 35 20
	iS	43 10
	iScS	45 04
	eL	50 20
	F	6.0
Philadelphia	iP	3 35 04
	e	35 37
	iS	42 53
	e	44 22
	eSS	46 46
	L	49 19
	F	6.0
Rapid City	eP	3 36 14
	e	38 18
	ePP	38 45
	eS	45 00
	eScS	46 12
	e	49 01
	eL	52 42
	F	5.4

Date and Station	Phase	(GCT) h m s
August 7, continued		
Salt Lake City	iP	3 36 17
	ePP	38 27
	eS	45 12
	eScS	46 05
	eSS	49 15
	eL	57 02
	F	5.9
San Juan	eP	3 32 16
	e	33 30
	iPP	34 03
	iS	37 52
	i	40 02
	iL	40 19
	F	6.2
Sitka	eP	3 38 20
	e	41 10
	eS	48 48
	i	49 15
	ePS	50 11
	eSS	55 06
	eL	4 02 45
	F	6.3
Tucson	iP	3 35 31
	ePP	37 44
	i	38 33
	eS	43 44
	e	45 13
	eSS	47 40
	eL	50 26
	F	5.5
Ukiah	eP	3 36 48
	eS	46 14
	e	52 04
	eL	55 05
	F	6.2
August 7, Probably New Britain.		
Butte	eL	13 48 07
	F	14.0
Sitka	eP	12 52 47
	eS	13 03 20
	e	03 45
	e	04 47
	eL	15 20
	F	13.8
Tucson	eP	12 54 16
	ePP	57 52
	e	57 56
	eL	13 25 02
	F	14.0
August 7		
Sitka	e	13 45 30
	eL	46 18
	F	14.1

Date and Station	Phase	(GCT) h m s
August 7, H_{P-H} = 18h 47.3m. Epicenter in the region 16°N. and 97½°W. Mexico, off coast.		
Butte	eL	19 03 12
	F	19.4
Philadelphia	eL	19 06 15
	F	19.4
Salt Lake City	e(P)	18 52 14
	e	53 00
	e(S)	57 49
	e	59 13
	eL	19 01 44
	F	19.4
Sitka	eL	19 12 30
	F	19.6
Tucson	iP	18 51 53
	i	52 03
	iPP	52 13
	eS	55 37
	eL	57 17
	F	19.8
Ukiah	e(S)	18 57 13
	eL	19 02 46
	F	19.5
August 7		
Balboa Heights	e	19 29 40
	i	30 00
	F	19 32
August 7, H_{P-H} = 23h 38.2m. Epicenter in the region 18°S. and 74°W. Peru, off coast.		
Huancayo	eP	23 39 41
	i	39 59
	e	40 09
	iS	40 45
	iL	41 21
	F	0.6
Montezuma	eL	23 43 12
	F	0.0
San Juan	eP	23 45 21
	eS	50 50
	eL	53 10
	F	0.7
August 7		
Tucson	iP	23 48 29
	eL	0 09 12
	F	0.4

Date and Station	Phase	(GCT) h m s
August 8		
Huancayo	e	2 45 15
	e	49 37
	eL	50 52
	F	3.2
Tucson	iP	2 42 42
	eL	3 04 05
	F	3.3
August 8		
San Juan	eL	3 51 16
	F	4.1
Tucson	eP	3 43 39
	eL	53 45
	F	4.0
August 8, Probably New Guinea.		
College	eP	8 45 54
	ePP	49 21
	eS	56 09
	eScS	56 53
	e	9 01 29
	eL	07 28
	F	9.9
Salt Lake City	e	8 57 30
	eS	59 09
	ePS	9 00 01
	e	01 00
	eL	12 13
	F	9.4
San Juan	eP'	8 53 10
	e	53 38
	e	55 59
	e	9 12 12
	eSS	15 47
	e	25 34
	eL	48 24
	F	10.8
Sitka	eP	8 46 18
	e	49 37
	iS	56 43
	i	57 25
	i	57 50
	i	57 52
	ePPS	58 43
	eSS	9 02 43
	eL	09 46
	F	10.1
Tucson	ePP	8 52 13
	e	52 33
	eS	59 11
	e	9 01 23
	eL	22 19
	F	10.0

Date and Station	Phase	(GCT) h m s
August 8, Probably south of Alaska.		
College	e(S)	10 33 58
	e	33 59
	eL	34 12
	F	10.8
Sitka	eP	10 34 45
	eS	36 28
	eL	36 47
	F	11.0
Tucson	iP	10 39 47
	i	40 09
	i	40 18
	F	10.7
August 8		
Philadelphia	eL	16 31 09
	F	16.6
Sitka	eL	16 13 22
	F	16.5
Ukiah	eL	16 17 32
	F	16.5
August 9, H_{P-H} = 4h 15m 26s. Epicenter in the region 19.0°N. and 67.2°W. Off northwest coast of Puerto Rico. Felt at Borinquen Field, Puerto Rico.		
Huancayo	eL	4 54 28
	F	5.1
Philadelphia	eP	4 24 10
	F	4.8
San Juan	eP	4 15 52
	iS	16 07
	iL	16 34
	F	5.5
Tucson	iP	4 23 15
	i	24 45
	i	29 03
	eL	42 10
	F	5.0
August 9		
Balboa Heights	e	5 37 52
	F	5 41
August 9, H_{P-H} = 14h 01m 05s. Epicenter by Pasadena, 35°56'N. and 117°46'W. East of Little Lake, California. Focal depth normal.		

Date and Station	Phase	(GCT) h m s
August 9, continued		
Tucson	e	14 02 46
	i	03 12
	e	04 03
	iL	04 42
	F	14.2
August 10, H_{P-H} = 1h 52m 52s. Epicenter approximately 51.0°N. and 130.7°W. Off southwest coast of British Columbia.		
Bermuda	eS	2 09 38
	e	12 17
	e	13 25
	eL	16 52
	L 20	20 sec.
	A	7.7 mm.
	L max.	15 sec.
	A	8.2 mm.
	F	3.4
Butte	eP	1 56 12
	e	56 41
	eS	58 24
	eL	58 50
	F	3.4
Chicago	eP	1 59 07
	e	59 49
	eS	2 04 06
	eL	06 34
	F	3.6
College	eP	1 56 46
	e	57 12
	eS	59 51
	eL	2 00 14
	F	3.8
Columbia	e	2 01 53
	eS	06 22
	eL	09 02
	F	3.6
Honolulu	ePP	2 01 24
	eS	05 48
	eL	08 04
	L max.	7 sec.
	A	18.7mm.
	F	4.2
Huancayo	eS	2 14 53
	eL	25 47
	F	3.5
New Kensington	eP	2 00 15
	eS	05 35
	F	Lost.
Philadelphia	i(PP)	2 02 08
	eS	06 11
	eL	08 56
	F	3.9

Date and Station	Phase	(GCT) h m s
August 10, continued		
Rapid City	iP	1 57 23
	i	57 56
	eS	2 00 57
	eL	01 25
	F	3.5
Salt Lake City	iP	1 56 45
	e	57 12
	eS	2 00 02
	eL	00 54
	F	4.1
San Juan	eP	2 03 04
	e	07 43
	eS	11 07
	eL	17 17
	F	3.9
Sitka	eP	1 54 30
	i	54 45
	iS	55 55
	iL	56 23
	F	3.9
Tucson	iP	1 58 05
	i	58 10
	iPP	58 33
	i	59 08
	iPcP	2 00 54
	iS	02 28
	eL	04 02
	F	4.1
Ukiah	eP	1 55 59
	e	56 29
	eS	58 31
	eL	59 10
	F	5.3
August 10		
Rapid City	eL	5 43 21
	F	6.3
August 10, Probably New Guinea.		
Bermuda	eL	11 49 05
	F	12.4
Butte	eL	11 30 00
	F	Lost.
Chicago	e	11 18 07
	ePPS	23 42
	e	25 01
	eL	47 04
	F	Lost.
College	e	11 10 59
	eL	25 58
	F	12.5
Honolulu	eS	11 08 09
	eL	16 20
	F	12.0

Date and Station	Phase	(GCT) h m s
August 10, continued		
Philadelphia	e	11 19 46
	eL	42 37
	F	12.9
Salt Lake City	eS	11 14 16
	eL	30 29
	F	Lost.
San Juan	e(P')	11 08 21
	e	19 34
	e	27 35
	eL	43 55
	F	13.0
Sitka	eSKS	11 11 49
	eS	12 12
	e	17 50
	eL	26 50
	F	12.1
Tucson	eP'	11 06 13
	e	06 52
	e	14 05
	eL	20 29
	F	11.7
Ukiah	eL	11 12 30
	F	12.4
August 10, H_{P-H} = 11h 31.5m. Epicenter in the region 16½°N. and 96°W. Southern Oaxaca, Mexico.		
Butte	e	11 38 13
	eL	45 28
	F	Lost.
Chicago	eP	11 37 06
	e	37 20
	e	37 44
	eS	41 32
	eL	42 42
	F	Lost.
Huancayo	e	11 45 08
	eL	53 07
	F	12.7
Salt Lake City	eL	11 44 07
	F	Lost.
Tucson	iP	11 36 08
	iPP	36 23
	i	36 35
	e	40 23
	iL	42 13
	F	12.5
August 10, H_{P-H} = 15h 27.2m. Epicenter in the region 12°S. and 77°W. Near coast of Peru.		

Date and Station	Phase	(GCT) h m s
August 10, continued		
Huancayo	iP	15 27 36
	i	27 53
	iL	28 07
	F	15.8
Tucson	iP	15 36 46
	i	37 05
	F	15.7
August 10		
Huancayo	eL	19 47 51
	F	20.2
Tucson	iP	19 39 30
	eL	20 00 41
	F	20.5
August 11		
Philadelphia	eL	10 01 30
	F	10.2
San Juan	iP	9 48 24
	iS	48 41
	iL	49 00
	F	10.3
Tucson	eP	9 56 35
	F	10.0
August 11		
Tucson	eL	17 46 00
	F	18.1
August 12		
Tucson	iP	8 27 02
	e	28 57
	i	28 59
	eL	29 13
	F	8.6
August 12, H_{P-H} = 21h 21m 20s. Epicenter by Pasadena, 35°56'N. and 117°46'W. East of Little Lake, California. Focal depth normal.		
Tucson	eL	21 25 05
	F	21.4
August 13, H_{P-H} = 6h 27m 57s. Epicenter by Pasadena, 35°56'N. and 117°46'W. East of Little Lake, California. Focal depth normal.		
Tucson	e	6 29 39
	eL	31 38
	F	6.6

Date and Station	Phase	(GCT) h m s
August 13		
College	e	8 25 35
	F	Lost.
Rapid City	eP	8 26 01
	eS	29 43
	F	Lost.
August 13		
Salt Lake City	e	8 24 57
	e	25 15
	F	Lost.
Tucson	iP	8 26 32
	i	26 36
	eS	30 32
	F	Lost.
August 13, H_{P-H} = 8h 22.3m. Epicenter in the region 50½°N. and 132°W. Off southwest coast of British Columbia.		
Chicago	eP	8 28 43
	e	33 45
	eS	33 53
	eL	37 18
	F	9.5
College	e	8 26 33
	eL	29 55
	F	9.6
Columbia	eL	8 42 26
	F	9.5
Honolulu	eL	8 37 48
	F	9.3
New Kensington	e	8 30 43
	eL	41 24
	F	9.4
Philadelphia	e	8 30 14
	i	31 31
	e	37 34
	L	39 19
	F	9.5
Rapid City	iP	8 27 07
	e	27 59
	eS	30 42
	eL	32 39
	F	9.2
Salt Lake City	e(P)	8 26 16
	e	28 42
	eS	29 18
	eL	31 17
	F	9.4

Date and Station	Phase	(GCT) h m s
August 13, continued		
San Juan	eS	8 40 49
	eL	47 31
	F	9.3
Seattle	e	8 24 34
	eL	26 25
	F	8.7
Sitka	e	8 24 22
	eS	25 30
	eL	26 36
	F	9.7
Tucson	iP	8 27 35
	i	27 38
	e	32 02
	eL	34 13
	F	9.1
Ukiah	(e)	8 25 07
	eL	27 30
	F	9.3
August 14, H_{P-H} = 11h 07.5m. Epicenter in the region 58½°N. and 153°W. North of Kodiak Island. Depth approximately 100 km.		
Butte	e	11 16 52
	eL	19 00
	F	11.7
Chicago	eP	11 15 22
	eS	21 47
	eL	24 58
	F	12.0
College	eP	11 09 05
	i	09 22
	e(S)	10 01
	i	10 05
	e	10 23
	eL	10 42
	F	11.9
New Kensington	eL	11 28 07
	F	12.3
Philadelphia	iS	11 23 39
	esS	24 16
	e	26 00
	eL	27 16
	F	12.0
Rapid City	eP	11 14 07
	epP	14 28
	e	15 13
	iS	19 26
	eL	22 05
	F	11.9

Date and Station	Phase	(GCT) h m s
August 14, continued		
San Juan	epP	11 19 26
	e	19 44
	eS	28 09
	esS	28 47
	eSS	33 14
	e	36 49
	eL	37 10
	F	12.3
Sitka	eP	11 09 44
	iP	09 50
	e	10 04
	eS	11 29
	iS	11 38
	iL	11 50
	F	12.1
Tucson	iP	11 14 47
	ipP	15 09
	iPP	16 23
	i	16 43
	iS	20 33
	e(S)	21 08
	eL	24 00
	F	12.0
Ukiah	e	11 13 22
	epP	13 30
	e	13 41
	eS	18 01
	eL	18 41
	F	11.7
August 14, Probably Philippine Islands.		
College	eL	15 02 11
	F	16.0
Huancayo	eP'	14 42 49
	e	49 41
	e	50 00
	e	52 44
	e	57 26
	eL	15 37 06
	F	16.6
Philadelphia	eL	15 20 30
	F	Lost.
San Juan	eP'	14 41 13
	e	41 35
	eSKS	49 33
	e	15 01 40
	e	15 36
	eL	28 32
	F	Lost.
Tucson	iP	14 40 02
	e	50 44
	e	55 08
	eL	15 14 12
	F	16.5

Date and Station	Phase	(GCT) h m s
August 14		
San Juan	eP	16 25 41
	iP	25 43
	iS	25 59
	iL	26 14
	F	16.8
August 15		
Tucson	e	1 37 43
	e	49 30
	eL	2 12 08
	F	2.8
August 15, H_{P-H} = 11h 47.6m. Epicenter in the region 13°N. and 143½°E. Mariana Islands. Depth approximately 100 km.		
Butte	eSKS	12(10 19)
	eS	(10 42)
	ePS	(12 39)
	e	(16 44)
	eL	(31 06)
	F	12.7
College	e(P)	11 58 37
	e	12 00 37
	eS	07 31
	e	08 23
	e	11 22
	eL	15 11
	F	13.3
Honolulu	eP	11 57 10
	epP	57 42
	ePPP	12 00 34
	iS	04 59
	eL	11 15
	F	12.9
Huancayo	eP'	12 07 03
	e	07 22
	ePP	10 38
	e	10 48
	e	22 40
	e	27 30
	e	28 12
	eSS	38 42
	eL	13 06 14
	F	13.8
Salt Lake City	e(P)	12 00 42
	eSKS	11 05
	eS	11 25
	e	13 31
	e	15 56
	eL	26 05
	F	15.2

Date and Station	Phase	(GCT) h m s
August 15, continued		
Sitka	eP	11 59 05
	eS	12 08 33
	esS	09 05
	e	10 00
	eSS	13 26
	eL	17 42
	F	13.2
Tucson	iP	12 00 58
	ipP	01 26
	e	03 40
	ePP	05 38
	i	06 26
	eSKS	11 18
	iSP	13 25
	i	18 15
	eL	23 51
	F	13.2
Ukiah	eP	12 00 03
	e	03 08
	ePP	03 15
	eS	10 14
	e	11 10
	e	14 25
	eSSS	19 23
	eL	21 52
	F	13.4
August 16		
Balboa Heights	e	9 13 53
	e	14 18
	F	9 16
August 17, H_{P-H} = 2h 52m 40s. Epicenter by Pasadena, 34°18'N. and 117°09'W. Near Lake Arrowhead, California. Focal depth normal.		
Tucson	eL	2 55 42
	F	2.9
August 17		
Tucson	eP	3 42 27
	i	42 38
	i	42 41
	e	43 19
	iL	43 33
	F	3.9
August 18, H_{P-H} = 10h 33.4m. Epicenter in the region 38°N. and 140°E. Northern Honshu, Japan. Depth approximately 200 km.		

Date and Station	Phase	(GCT) h m s
August 18, continued		
Butte	eP	10(44 43)
	e	(46 30)
	e	(55 02)
	e	(59 27)
	eL	11(04 08)
	F	11.9
Chicago	eP	10 46 00
	e	46 33
	ePP	49 34
	e	50 17
	e	52 12
	eSKS	56 11
	iS	56 34
	e	57 24
	e	57 33
	e	11 02 00
	eL	02 35
	F	12.0
College	eP	10 41 47
	epP	42 43
	e	44 10
	eS	48 38
	iS	48 40
	isS	49 35
	eSS	52 20
	e	53 07
	eL	55 16
	F	12.0
Columbia	e	10 50 44
	eL	57 10
	F	11.9
Honolulu	eP	10 42 40
	epP	43 29
	iS	50 10
	esS	51 10
	eL	56 14
	F	11.8
Huancayo	eP'	10 52 32
	e	52 58
	ePP	55 26
	e	11 02 05
	e	08 13
	e	14 00
	e	23 23
	eL	28 27
	F	12.7
New Kensington	eP	10 46 25
	e	50 13
	iSKS	56 43
	iPS	58 15
	F	11.4

Date and Station	Phase	(GCT) h m s
August 18, continued		
Philadelphia	eP	10 46 30
	epP	47 19
	e	48 06
	e	49 07
	ePP	50 21
	iSKS	56 52
	iS	57 33
	e	57 55
	e	59 48
	eSS	11 04 01
	eL	13 16
	F	12.4
Rapid City	iP	10 45 15
	e	47 51
	e	52 00
	iS	55 07
	i	55 58
	e	59 47
	eL	11 06 00
	F	11.7
Salt Lake City	iP	10 45 00
	e	45 43
	epP	46 47
	e	48 20
	iS	54 41
	e	55 11
	e	55 19
	e	55 37
	eSS	59 49
	eL	11 05 00
	F	12.2
San Juan	ePP	10 53 10
	epPP	53 54
	e	56 28
	e	11 02 50
	e	03 23
	e	03 36
	i	03 48
	eSS	09 03
	e	16 23
	eL	20 41
	F	12.0
Sitka	iP	10 42 47
	epP	43 30
	ePP	45 00
	e	46 30
	iS	50 26
	i	51 21
	e	55 05
	e	56 05
	eL	11 02 08
	F	12.3

Date and Station	Phase	(GCT) h m s
August 18, continued		
Tucson	iP	10 45 34
	i	45 45
	e	48 23
	iPP	48 46
	i	49 02
	e	51 05
	iS	55 46
	i	56 40
	i	59 35
	eL	11 05 07
	F	12.5
Ukiah	eP	10 44 29
	ePP	47 15
	eS	53 36
	e	54 16
	e	55 04
	eSS	58 10
	e	58 42
	eL	11 02 09
	F	12.6

August 18, H_{P-H} = 19h 22.5m. Epicenter in the region 21½°S. and 71°W. Off coast of northern Chile.

Station	Phase	(GCT) h m s
Bermuda	e	19 32 06
	eS	39 26
	eL	45 40
	F	20.2
Chicago	e	19 42 54
	eL	52 46
	F	20.4
Huancayo	e	19 25 01
	e	25 17
	e	26 07
	eL	26 35
	F	20.9
Montezuma	eP	19 23 21
	i	23 32
	iS	23 58
	iL	24 20
	F	19.6
Philadelphia	e	19 32 43
	e(S)	40 50
	e	42 28
	eL	49 05
	F	20.5
San Juan	e(S)	19 35 19
	eL	39 07
	F	20.4
Tucson	iP	19 33 13
	i	33 38
	eS	41 57
	e	43 11
	e	49 45
	eL	54 29
	eP'P'	20 02 04
	F	20.4

Date and Station	Phase	(GCT) h m s
August 20		
Tucson	iP	11 34 20
	i	34 35
	i	35 33
	eL	36 08
	F	11.7
August 20		
Tucson	eL	22 18 39
	F	22.7
August 21		
Tucson	iP	2 49 45
	iPP	50 14
	e	53 35
	eL	56 47
	F	3.2
August 21		
Tucson	eP	11 06 04
	eL	40 18
	F	11.9
August 21, H_{P-H} = 20h 14.6m. Epicenter in the region 3°N. and 31°W. Mid-Atlantic Ocean.		
Huancayo	ePP	20 24 58
	eS	29 42
	eL	34 17
	F	21.6
San Juan	eP	20 21 46
	e	22 51
	e	23 32
	e	23 35
	eS	27 30
	eL	31 14
	F	21.2
Tucson	iP	20 26 44
	ePP	29 42
	e	37 21
	eL	51 00
	F	21.3
August 22, H_{P-H} = 18h 22m 30s. Epicenter by Pasadena, 34°00'N. and 116°42'W. North of Whitewater, California. Focal depth normal.		
Tucson	eP	18 24 54
	i	25 16
	i	25 18
	eL	25 44
	F	18.4

Date and Station	Phase	(GCT) h m s
August 22		
Huancayo	eL	19 43 45
	F	20.0
August 23		
Philadelphia	e	4 18 20
	eL	20 16
	F	4.5
August 23		
Sitka	e	9 00 32
	e	01 43
	iL	02 00
	F	9.1
August 24, Probably northeast of Greenland.		
Philadelphia	e	16 09 48
	eS	14 57
	e	18 41
	eL	22 28
	F	16.8
Sitka	e	16 08 26
	e(S)	13 17
	eL	21 06
	F	16.8
Tucson	e	16 15 02
	eL	23 28
	F	16.8
August 24, H_{P-H} = 23h 37.8m. Epicenter in the region 15½°N. and 93°W. Off southern coast of Cheapas, Mexico. Depth approximately 100 km.		
Balboa Heights	e(P)	23 41 20
	F	0 03
Bermuda	eP	23 44 28
	ipP	44 49
	i	45 14
	i	45 31
	eS	49 50
	esS	50 27
	eL	53 00
	F	0.8
Butte	eP	23(44 40)
	e	(46 00)
	eS	(50 00)
	e	(51 06)
	eL	(54 50)
	F	0.9

Date and Station	Phase	(GCT) h m s
August 24, continued		
Chicago	eP	23 43 21
	epP	43 35
	i	43 42
	ePP	44 21
	e	45 06
	eS	47 37
	esS	48 17
	i	48 38
	eL	50 49
	F	0.7
College	e	23 48 18
	ePP	50 22
	eS	56 08
	eSS	0 00 38
	eL	06 09
	F	0.8
Columbia	eP	23 42 32
	e	43 04
	eS	46 24
	eL	48 18
	F	1.0
Honolulu	eL	23 56 19
	F	0.3
Huancayo	eP	23 44 22
	i	44 50
	i	45 46
	eS	49 26
	isS	50 13
	eL	51 53
	F	1.0
New Kensington	e	23 43 55
	i	46 37
	i	49 03
	eL	52 00
	F	0.8
Philadelphia	eP	23 43 45
	i	44 05
	iPP	45 07
	e	45 52
	e	46 36
	eS	49 14
	i	50 24
	i	51 31
	eL	51 50
	F	1.0
Rapid City	iP	23 43 37
	epP	43 58
	e	45 21
	eS	48 57
	eL	51 09
	F	1.0

Date and Station	Phase	(GCT) h m s
August 24, continued		
San Juan	eP	23 43 18
	i	43 38
	e	43 49
	iPP	44 09
	i	44 33
	i	45 13
	iS	47 37
	isS	48 18
	iL	49 04
	F	1.2
Sitka	eP	23 46 55
	ePP	48 56
	eS	54 19
	i	54 37
	eL	0 03 15
	F	1.9
Tucson	iP	23 42 52
	i	43 04
	ipP	43 10
	i	43 22
	i	44 14
	eS	46 57
	i	47 17
	isS	47 31
	i	48 29
	eL	49 50
	F	0.8
Ukiah	eP	23 44 45
	e	45 15
	e	45 36
	eS	50 13
	e	52 52
	eL	54 42
	F	0.6
August 25		
Tucson	i	3 24 02
	e	27 55
	eL	49 02
	F	4.2
August 25, H_{P-H} = 7h 30m 25s. Epicenter by Pasadena, 34°00'N. and 116°42'W. North of Whitewater, California. Felt at Palm Springs and Coachella.		
Tucson	eP	7 31 40
	i	32 03
	i	32 17
	i	32 32
	iL	33 08
	F	7.6

Date and Station	Phase	(GCT) h m s
August 25, H_{P-H} = 12h 27.1m. Epicenter in the region 18°S. and 176°W. North of Tonga Islands. Depth approximately 250 km.		
Huancayo	eS	12 48 27
	e	49 11
	eL	13 05 10
	F	13.9
Tucson	iP	12 36 46
	i	37 14
	i	37 41
	i	37 59
	e	46 28
	e	47 13
	eL	58 24
	F	13.4
August 25		
Tucson	iP	13 54 34
	e	55 42
	eS	58 53
	e	14 01 33
	eL	03 54
	F	14.2
August 25		
Tucson	iP	15 32 31
	eL	48 28
	F	16.2
August 25		
Balboa Heights	iP	20 39 17
	iS	39 44
	F	20 42
August 26		
Huancayo	eP	2 00 02
	e	00 26
	e	01 20
	eL	02 47
	F	2.3
Tucson	eP	2 07 03
	ipP	07 29
	F	2.2
August 26		
Ukiah	eL	18 53 04
	F	19.3

Date and Station	Phase	(GCT) h m s
August 27		
Tucson	iP	18 55 36
	i	55 41
	e	19 00 15
	eL	02 17
	F	19.3
August 28		
Tucson	iP	10 29 12
	eL	56 11
	F	11.3
August 29		
Balboa Heights	e	7 29 33
	F	7 38
August 29		
Philadelphia	eL	21 15 04
	F	22.1
August 30, H_{P-H} = 1h 14.2m. Epicenter in the region 17°S. and 168½°E. New Hebrides Islands.		
Chicago	eL	2 07 30
	F	3.0
College	eL	1 55 06
	F	2.7
Columbia	eL	2 14 13
	F	3.2
Honolulu	e	1 23 37
	eS	30 27
	eSS	35 50
	eL	37 38
	F	2.5
Huancayo	eL	2 07 00
	F	2.6
San Juan	eP'	1 33 11
	e	33 18
	e	36 40
	e	39 03
	eSKS	41 35
	ePS	45 42
	e	52 59
	eL	2 13 20
	F	3.6
Sitka	eL	1 50 20
	F	2.4

Date and Station	Phase	(GCT) h m s
August 30, continued		
Tucson	iP	1 27 18
	i	27 58
	ePP	31 02
	e	39 44
	eL	55 32
	F	3.0
Ukiah	e	1 37 16
	eL	53 13
	F	2.7
August 30		
Tucson	iP	3 17 43
	(e)	27 45
	e	31 00
	e	35 52
	eL	40 28
	F	3.8
August 30, H_{P-H} = 4h 00.8m. Epicenter in the region 14½°S. and 78°W. Off coast of central Peru. Depth approximately 100 km.		
Huancayo	eP	4 02 02
	e	03 12
	eL	04 07
	F	4.3
Montezuma	i	4 03(33)
	F	4.1
San Juan	e	4 07 23
	eS	12 11
	eL	15 44
	F	4.6
Tucson	iP	4 10 23
	F	4.4
August 31		
Huancayo	eS	12 10 46
	eL	13 37
	F	12.8
Montezuma	e	12 10 41
	F	12.3
September 1		
Tucson	e	23 24 02
	e	32 28
	eL	33 05
	F	23.8

Date and Station	Phase	(GCT) h m s
September 3, H_{P-H} = 1h 36m 45s. Epicenter by Pasadena, 34°14'N. and 116°26'W. Northeast of Morongo Valley, California. Focal depth normal.		
Tucson	e(P)	1 36 17
	e	36 26
	F	1.8
September 3, Probably off coast of Ecuador.		
Huancayo	e(P)	10 26 27
	eL	29 35
	F	10.7
Tucson	eP	10 31 19
	F	10.6
September 3, H_{P-H} = 19h 11.5m. Epicenter in the region 56°S. and 123°W. South Pacific Ocean, near Dougherty Island.		
Bermuda	ePP	19 29 43
	eSKS	36 12
	ePS	38 36
	eSS	44 23
	e	51 10
	eL	59 53
	F	22.0
Butte	e	19(31 39)
	e	(39 15)
	eL	20(01 48)
	F	21.4
Chicago	e	19 26 37
	eL	55 15
	F	22.4
College	e(PP)	19 32 46
	e(SKS)	38 25
	eSS	48 39
	eL	20 08 16
	F	22.6
Columbia	e	19 35 50
	eSKS	36 34
	e	43 02
	eL	53 25
	F	21.8
Honolulu	e	19 24 54
	ePP	27 23
	e	31 11
	e(S)	34 59
	e	40 57
	eL	47 10
	L max.	11 sec.
	A	8.0 mm.
	F	21.7

Date and Station	Phase	(GCT) h m s
September 3, continued		
Huancayo	eP	19 21 21
	ePP	23 37
	iS	29 22
	i	30 22
	iSS	33 28
	eL	35 31
	F	20.3
Philadelphia	e	19 29 03
	e	32 03
	eSKS	36 06
	ePS	39 00
	eSS	44 24
	e	50 09
	eL	55 00
	F	22.0
San Juan	eP	19 24 35
	e	29 05
	e	31 46
	eS	34 56
	e	36 35
	iSS	40 55
	eL	47 23
	F	22.3
Sitka	ePS	19 40 38
	e	47 02
	eL	55 29
	F	21.9
Tucson	iP	19 24 26
	i	24 48
	e	28 29
	e	29 48
	eS	35 19
	eSS	41 14
	eSSS	45 09
	eL	48 08
	F	22.3
Ukiah	e	19 28 41
	eSKS	35 15
	e(S))	36 15
	eSS	42 35
	eL	51 08
	F	21.6
September 3, H_{P-H} = 21h 29.6m. Epicenter in the region 3°N. and 77½°W. Near southwest coast of Colombia.		
Balboa Heights	iP	21 31 23
	iS	32 36
	F	21.7
Huancayo	eP	21 33 13
	i	33 19
	eS	36 08
	eL	36 58
	F	21.7

Date and Station	Phase	(GCT) h m s
September 3, continued		
Montezuma	e	22 59 18
	iS	59 37
	eL	59 52
	F	23.1
San Juan	eP	21 33 55
	iS	37 09
	eL	37 41
	F	Lost.
Tucson	iP	21 37 38
	i	37 46
	i	38 09
	ePP	39 24
	F	Lost.
September 3, H_{P-H} = 22h 58.6m. Epicenter in the region 22½°S. and 68°W. Northeastern Chile. Depth approximately 100km.		
Huancayo	eP	23 01 34
	e	02 08
	e	03 59
	eS	04 02
	iL	04 17
	F	23.3
Montezuma	e	22 58(37)
	iS	58(55)
	F	23.1
San Juan	eP	23 06 05
	eS	11 55
	isS	12 42
	eL	15 02
	F	23.5
Tucson	iP	23 09 33
	ipP	10 01
	i	10 09
	e	12 56
	eL	28 22
	F	23.7
September 4		
Tucson	iP	7 27 22
	i	27 40
	F	7.6
September 4, H_{P-H} = 12h 55m 28s. Epicenter by Pasadena, 33°19'N. and 116°04'W. West shore of Salton Sea, California. Focal depth normal		

Date and Station	Phase	(GCT) h m s
September 4, continued		
Tucson	eP	12 56 37
	i	56 42
	i	56 57
	eS	57 39
	eL	58 03
	F	13.1
September 4		
Tucson	eP	13 47 20
	F	13.8
September 5		
Tucson	iP	1 19 42
	e	23 15
	F	1.5
September 5, H_{P-H} = 4h 38m 44s. Epicenter by Dominion Observatory, 44°51'N. and 74°18'W. Cornwall, Ontario and Massena, New York. Approximately $2,000,000 property damage.		
Bermuda	eP	4 42 24
	eS	44 58
	eL	45 12
	F	5.1
Butte	e	5(50 28)
	eL	(52 23)
	F	5.4
Cheltenham	iP	4 40 20
	i	41 18
Chicago	e(P)	4 41 06
	iS	42 47
	eL	43 16
	F	5.5
College	eL	5 00 35
	F	5.4
Columbia	eP	4 41 37
	e(S)	43 42
	eL	44 48
	F	4.9
New Kensington	eP	4 40 16
	iS	41 17
	iL	41 32
	F	5.2
San Juan	eP	4 44 32
	e(PP)	45 13
	eS	49 07
	eL	51 25
	F	5.8

Date and Station	Phase	(GCT) h m s
September 5, continued		
Sitka	eL	4 58 17
	F	5.3
Tucson	eP	4 45 01
	e	45 27
	e	50 48
	e	51 07
	eL	52 43
	F	5.8
Ukiah	eL	4 56 47
	F	5.2
September 5, H_{P-H} = 8h 51.2m. Epicenter approximately 44.9°N. and 74.3°W. Aftershock of Cornwall-Massena quake.		
Cheltenham	iP	8 52 45
	i	53 08
	i	53 54
	iL	54 25
	F	9.0
September 5, H_{P-H} = 15h 30.0m. Epicenter in the region 18°S. and 167°W. East of Tonga Islands.		
Honolulu	e	15 42 47
	eL	47 26
	F	16.5
Huancayo	eSKS	15 53 26
	ePS	55 16
	eL	16 13 12
	F	17.2
Philadelphia	e(S)	15 56 04
	e	57 47
	eL	16 18 38
	F	17.1
Tucson	e	15 41 35
	e	42 12
	eL	16 07 48
	F	17.1
September 5		
Tucson	iP	16 20 45
	i	20 49
	F	Lost.
September 6, H_{P-H} = 5h 52.4m. Epicenter in the region 22°S. and 172°E. East of Loyalty Islands.		

Date and Station	Phase	(GCT) h m s
September 6, continued		
Tucson	iP	6 05 31
	i	06 15
	eL	40 15
	F	6.8
September 6		
Huancayo	eL	14 18 18
	F	15.1
San Juan	eL	14 15 43
	F	15.0
September 6		
Columbia	eL	20 53 40
	F	21.8
September 6		
Huancayo	eL	22 54 00
	F	23.1
September 7		
Huancayo	eP	14 05 20
	i	05 29
	i	05 58
	iL	06 13
	F	14.3
September 8		
Tucson	iP	1 33 29
	e	33 46
	F	1.8
September 9, H_{P-H} = 4h 12m 20s. Epicenter in the region 39°N. and 107½°W. Western Colorado. Felt at Montrose, Basaltland, and Riland.		
Salt Lake City	e(P)	4 13 25
	eS	14 18
	eL	14 28
	F	4.3
Tucson	eP	4 14 06
	e	14 16
	i	14 34
	iL	16 11
	F	4.4
September 9		
Philadelphia	e	13 37 09
	e	42 08
	eL	45 49
	F	14.2

Date and Station	Phase	(GCT) h m s
September 9, H_{P-H} = 17h 32.7m. Epicenter in the region 51°N. and 179°E. Aleutian Islands. Probable epicenter.		
College	e	17 37 42
	eS	41 32
	eL	42 55
	F	18.9
Tucson	iP	17 42 06
	i	42 18
	e(S)	49 37
	eL	58 32
	F	18.5
September 9		
Tucson	iP	19 14 48
	e	19 28
	eL	20 15
	F	19.5
September 9, H_{P-H} = 23h 24.8m. Epicenter approximately 44.9°N. and 74.3°W. Aftershock of Cornwall-Massena quake of September 5.		
Cheltenham	iP	23 26 30
	i	26 50
	i	27 36
	iL	28 02
	F	23.9
Philadelphia	e	23 26 55
	i	27 13
	i	27 36
	e(S)	27 45
	F	23.5
September 10		
Balboa Heights	e	19 56 00
	F	20.0
September 11		
Balboa Heights	e	10 05 15
	F	10.2
September 11, H_{P-H} = 9h 45.4m. Epicenter in the region 1°N. and 127°E. West of Gilolo, Molucca Islands. Possibly slight depth.		

Date and Station	Phase	(GCT) h m s
September 11, continued		
Butte	e	10(05 03)
	ePS	(13 00)
	e	(19 18)
	eL	(31 23)
	F	10.7
Chicago	eP'	10 04 38
	e(PP)	06 34
	e	07 56
	e	13 19
	e	16 34
	eSS	23 09
	eL	40 00
	F	12.3
College	eP	9 57 59
	ePP	10 01 25
	eS	08 30
	e	09 29
	eSS	14 14
	e	19 04
	eL	21 03
	F	11.8
Columbia	ePP	10 07 30
	eL	52 56
	F	12.1
Honolulu	eP	9 57 12
	i	57 30
	ePP	10 00 07
	eS	07 05
	T	6 sec.
	A	4.5 mm.
	eSS	12 10
	eSSS	15 49
	eL	21 30
	L 20	20 sec.
	A	9.4 mm.
	L max.	22 sec.
	A	10.1 mm.
	F	11.0
Huancayo	iP'	10 05 24
	ePP	09 06
	e	09 13
	iSKKS	16 09
	e	21 12
	eL	11 00 02
	F	12.5
New Kensington	eP'	10 04 28
	e	06 46
	i	07 49
	eL	58 48
	F	11.6

Date and Station	Phase	(GCT) h m s
September 11, continued		
Philadelphia	eP	10 04 42
	i	05 22
	ePP	07 20
	i	08 14
	eSKS	12 13
	e	14 01
	e	19 10
	e	25 11
	eL	48 00
	F	12.4
Rapid City	eP'	10 04 15
	ePP	05 22
	eSKS	11 32
	ePS	15 04
	e	29 21
	eL	41 04
	F	12.1
Salt Lake City	e	10 04 21
	e(PP)	05 29
	ePPP	07 11
	ePS	14 03
	ePPS	15 52
	e	21 49
	eL	37 23
	F	12.3
San Juan	eP'	10 05 20
	ePP	09 29
	i	10 32
	e	13 33
	eSKKS	16 12
	e	20 34
	eSS	29 41
	e	36 51
	eL	52 06
	F	12.1
Sitka	eP	9 58 44
	ePP	10 02 12
	i	03 54
	eSKS	09 15
	i	11 28
	e	17 13
	eL	29 25
	F	11.8
Tucson	eP	10 00 28
	eP'	04 10
	iPP	05 23
	i	09 01
	iPS	14 58
	eSS	21 37
	eSSS	25 35
	eL	32 40
	F	13.7
Ukiah	ePP	10 04 05
	eSKS	10 15
	eS	11 36
	eSS	18 45
	eL	28 20
	F	11.8

Date and Station	Phase	(GCT) h m s
September 12		
Philadelphia	eL	3 29 48
	F	4.0
Tucson	e	2 39 34
	e	43 52
	e	48 53
	eL	3 19 59
	F	4.1
September 12		
Balboa Heights	eP	14 04 00
	iS	04 26
	F	14.1
September 13		
Tucson	eP	1 01 22
	i	02 24
	eL	29 16
	F	1.8
September 14, H_{P-H} = 2h 02m 20s. Epicenter by Pasadena, 37°34'N. and 118°44'W. Long Valley, California. Felt, Owens River Gorge. Focal depth normal.		
Tucson	eL	2 06 48
	F	2.1
September 14		
Bermuda	e	6 59 18
	e	7 05 05
	eSS	22 53
	e	32 17
	eL	8 09 17
	F	8.8
Butte	eL	7(56 11)
	F	8.4
Chicago	eL	7 53 57
	F	8.5
College	eSKS	7 03 37
	eS	04 48
	eL	38 27
	F	8.3
Huancayo	e	7 01 20
	e(PP)	04 02
	e	06 02
	eSKKS	10 11
	e	18 01
	eSS	23 01
	e	30 25
	e	43 20
	eL	54 06
	F	9.0

Date and Station	Phase	(GCT) h m s
September 14, continued		
Salt Lake City	e	7 01 49
	eL	55 23
	F	8.5
San Juan	e(P')	6 59 31
	e(PP)	7 0[illegible] 04
	e	11 34
	eSS	24 52
	e	34 46
	eL	8 02 17
	F	9.0
Tucson	eP'	6 58 19
	ePP	7 01 03
	eP'P'	16 15
	eL	35 05
	F	9.3
Ukiah	eL	8 01 55
	F	8.4
September 15		
Tucson	eL	0 33 57
	F	1.4
September 15		
Tucson	iP	2 20 32
	eL	43 45
	F	2.8
September 15, H_{P-H} = 19h 20.1m. Epicenter in the region ½°S. and 79°W. Northwestern Ecuador. Press reports property damage in Cotopai Province.		
Huancayo	eP	19 22 55
	iP	23 01
	e	23 42
	i	23 48
	eS	25 06
	eL	26 00
	F	19.9
San Juan	eP	19 25 23
	eS	29 18
	eL	32 30
	F	19.9
September 15		
Huancayo	iP	20 26 45
	eP	26 48
	e	27 19
	e	28 23
	i(S)	29 00
	eL	29 39
	F	20.9

Date and Station	Phase	(GCT) h m s
September 15, continued		
San Juan	e	20 29 42
	e	33 02
	e	33 09
	eL	35 27
	F	20.8
September 15		
Tucson	eP	19 28 19
	i	28 28
	F	19.6
September 16, H_{P-H} = 2h 44.7m. Epicenter in the region 42½°N. and 127°W. Off northwest coast of California.		
Salt Lake City	eL	2 50 27
	F	3.1
Tucson	iP	2 48 38
	i	48 59
	eL	55 09
	F	3.2
Ukiah	e	2 46 04
	e	46 30
	eL	46 41
	F	3.0
September 16		
Tucson	iP	4 47 49
	i	47 54
	e	50 46
	F	4.9
September 16		
Tucson	iP	15 17 42
	e(L)	24 01
	F	15.5
September 17, Probably south of Alaska.		
Tucson	iP	9 28 44
	ipP	29 08
	i	29 21
	i	33 53
	F	9.6
September 17		
Balboa Heights	e	21 06 29
	iS	06 48
	F	21.2
September 18		
Balboa Heights	iP	6 12 10
	iS	12 24
	F	6.3

Date and Station	Phase	(GCT) h m s
September 18, H_{P-H} = 19h 45m 10s. Epicenter by Pasadena, 34°00'N. and 115°46'W. Pinto Mountains. Focal depth normal.		
Tucson	e	19 46 39
	eL	47 32
	F	19.8
September 19, H_{P-H} = 13h 06.0m. Epicenter in the region 54°N. and 161°E. Foreshock of Kamchatka quake of Sept. 23.		
Chicago	eL	13 39 50
	F	14.3
College	e(P)	13 11 56
	e	16 05
	eL	20 15
	F	14.3
Rapid City	iP	13 16 10
	ePP	20 03
	eS	24 23
	eL	35 31
	F	13.9
San Juan	e(PS)	13 32 26
	eL	50 05
	F	14.7
Sitka	eL	13 26 21
	F	13.7
Tucson	iP	13 16 39
	i	16 49
	eL	43 21
	F	14.2
September 19		
Sitka	eL	16 11 32
	F	16.3
September 20		
College	eL	4 50 58
	F	6.8
September 20, H_{P-H} = 14h 12m 21s. Epicenter by Pasadena, 33°58'N. and 116°45'W. North of Cabazon, California. Focal depth normal.		
Tucson	e	14 13 57
	eL	15 08
	F	14.3

Date and Station	Phase	(GCT) h m s
September 20,	H_{P-H} = 16h 39m 33s. Epicenter by Pasadena, 33°50'N. and 117°40'W. West of Corona, California. Focal depth normal.	
Tucson	e	16 41 31
	eL	42 49
	F	16.3
September 21		
Tucson	iP	1 56 36
	i	56 46
	F	2.0
September 21		
Tucson	eP	6 28 33
	eL	57 38
	F	7.3
September 21		
Tucson	eP	17 21 45
	i	22 04
	eL	26 53
	F	17.5
September 22		
Tucson	iP	4 24 13
	F	4.5
September 22		
Tucson	eP	19 36 27
	i	39 53
	F	19.7
September 22		
Tucson	i	22 44 53
	i	45 03
	i	48 31
	i	48 54
	F	22.9
September 23		
Tucson	eP	0 23 24
	e	23 54
	i	24 59
	i	25 13
	eL	33 22
	F	0.8

Date and Station	Phase	(GCT) h m s
September 23		
Tucson	iP	3 22 59
	i	23 10
	i	23 31
	e	26 49
	eL	46 49
	F	4.3
September 23		
Tucson	iP	8 43 54
	eL	9 51 54
	F	10.3
September 23,	H_{P-H} = 12h 13m 19s Epicenter approximately 53.8°N. and 161.2°E. Off southeast coast of Kamchatka. Slight depth.	
Bermuda	eP	12 26 04
	ePP	29 12
	eS	36 25
	T	13 sec.
	A	7.3 mm.
	e	41 45
	i(SS)	42 26
	eL	48 34
	L 20	18 sec.
	A	9.5 mm.
	L max.	18 sec.
	A	15.7 mm.
	F	15.5
Butte	eP	12(21 30)
	i	(21 44)
	ePPP	(25 03)
	eS	(29 02)
	eSS	(32 48)
	eL	(35 14)
	F	14.8
Chicago	eP	12 24 26
	e	29 22
	eS	33 10
	eScS	34 19
	e	39 24
	eL	41 23
	F	15.7
College	iP	12 19 04
	ePP	19 55
	e	20 38
	eS	23 51
	eL	24 46
	F	16.0
Columbia	eP	12 25 18
	eS	35 11
	eSS	40 07
	eL	51 22
	F	15.2

Date and Station	Phase	(GCT) h m s
September 23, continued		
Honolulu	eP	12 21 37
	T	3 sec.
	A	2.7 mm.
	ePP	23 23
	i	23 42
	iS	28 11
	T	16 sec.
	A	16.4 mm.
	eL	31 53
	L 20	20 sec.
	A	21.8 mm.
	L max.	22 sec.
	A	28.1 mm.
	F	14.6
Huancayo	eP'	12 32 10
	e	33 24
	i	33 44
	e	41 03
	e	42 43
	ePS	43 13
	eSS	49 50
	eSSS	54 23
	eL	13 04 26
	F	15.8
New Kensington	eP	12 24 57
	eS	34 19
	eL	51 48
	F	15.2
Philadelphia	eP	12 25 01
	i	25 14
	ePP	27 50
	eS	34 36
	iS	34 37
	eSS	39 42
	i	43 41
	eL	44 39
	F	15.6
Rapid City	eP	12 23 24
	i	23 36
	iPcP	24 21
	e	25 46
	ePPP	27 11
	eS	31 36
	iS	31 40
	e	35 45
	eL	38 37
	F	15.3
Salt Lake City	eP	12 23 13
	i	23 26
	ePP	25 17
	ePPP	26 57
	eS	31 17
	e	34 33
	eL	37 40
	F	15.5
Seattle	eL	12 28 50
	F	15.8

Date and Station	Phase	(GCT) h m s
September 23, continued		
Sitka	eP	12 20 21
	i	21 41
	i	22 33
	iS	25 55
	iL	28 35
	F	15.7
Tucson	iP	12 23 53
	i	23 58
	ePP	26 28
	i(PPP)	28 05
	eS	32 32
	eL	37 10
	F	15.5
Ukiah	eP	12 22 28
	e	23 14
	e	24 51
	eS	29 58
	eSS	33 40
	eL	34 41
	F	16.2
September 23,	H_{P-H} = 16h 01.3m. Epicenter in the region 30°S. and 177°W. Kermadec Islands region.	
Bermuda	eSS	16 39 06
	eL	59 43
	F	18.0
Huancayo	eP	16 14 37
	eSKS	25 14
	eS	25 50
	ePS	26 45
	eSS	32 12
	eL	45 11
	F	17.9
Rapid City	eSKS	16 25 46
	eL	53 08
	F	17.6
Salt Lake City	eSKS	16 25 22
	eL	48 24
	F	17.5
Tucson	iP	16 14 13
	i	14 24
	ePP	17 40
	ePS	25 52
	eL	42 12
	F	17.8
Ukiah	eL	16 37 20
	F	17.5

Date and Station	Phase	(GCT) h m s
September 24,	H_{P-H} = 10h 55.8m. Epicenter in the region 54°N. and 161°E. Aftershock of Kamchatka quake of Sept. 23.	
Sitka	iP	11 02 44
	ePP	04 07
	eS	08 35
	eL	12 07
	F	11.7
Tucson	iP	11 06 22
	e	35 12
	eL	54 32
	F	12.5
September 24,	H_{P-H} = 15h 13m 40s. Epicenter by Pasadena, 33°23'N. and 116°11'W. Near Clark Dry Lake, California. Focal depth normal.	
Tucson	e	15 14 57
	eL	16 07
	F	15.3
September 25,	H_{P-H} = 16h 15.7m. Epicenter in the region 54°N. and 161°E. Aftershock of Kamchatka quake of Sept. 23.	
Balboa Heights	e	16 32 --
	F	16.5
Huancayo	eL	16 32 48
	F	16.8
Sitka	eP	16 22 40
	eS	28 18
	e	28 39
	eL	36 11
	F	17.6
Tucson	iP	16 26 13
	i	26 16
	i	26 50
	eL	52 03
	F	17.5
September 25		
Tucson	eP	21 23 38
	e	24 40
	e(S)	29 34
	eL	31 36
	F	21.7

Date and Station	Phase	(GCT) h m s
September 26		
Tucson	iP	1 03 45
	i	03 54
	i	04 18
	e	05 01
	F	1.1
September 26		
Tucson	e	17 51 07
	i	51 20
	e	51 30
	i	51 40
	F	17.9
September 26		
Tucson	eP	21 33 34
	e	34 41
	e	39 35
	eL	41 27
	F	21.8
September 27,	H_{P-H} = 16h 25.1m. Epicenter in the region 39°N. and 73°E. 250 miles southeast of Tashkent, USSR.	
Bermuda	e	16 40 40
	eSKS	49 15
	eSS	57 05
	eL	17 11 18
	F	18.7
Butte	e	16(36 52)
	e	(47 47)
	eL	17(12 56)
	F	18.5
Chicago	eL	17 14 07
	F	19.2
College	eP	16 36 31
	eL	56 53
	F	18.4
Columbia	e	16 35 40
	e	51 02
	eL	17 17 28
	F	18.9
Honolulu	eL	17 12 33
	F	18.1
Huancayo	eP'	16 44 35
	eP'	47 47
	eL	17 27 19
	F	18.8

Date and Station	Phase	(GCT) h m s
September 27, continued		
Logan	eP	16 38 48
	i	41 10
	ePP	42 51
	eSKS	49 26
	eL	17 12 18
	F	18.0
New Kensington	eL	17 03 06
	F	18.2
Philadelphia	eSKS	16 49 01
	ePS	51 00
	e	51 47
	e	17 02 42
	eL	05 00
	F	18.9
Rapid City	iP	16 38 44
	i	41 14
	iPP	42 37
	eS	50 03
	e	55 15
	eL	17 07 46
	F	18.6
Salt Lake City	eP	16 39 06
	eS	50 36
	eSSS	17 01 38
	eL	08 35
	F	19.0
San Juan	ePP	16 44 24
	e	51 25
	eS	52 10
	ePS	53 55
	eL	17 11 07
	F	19.0
Sitka	iP	16 37 21
	iPP	40 28
	iS	47 29
	e	52 32
	eL	58 20
	F	19.1
Tucson	ePP	16 44 02
	eSKS	50 08
	eS	51 41
	ePS	53 25
	eSS	58 58
	eL	17 12 43
	F	18.7
Ukiah	e	16 45 08
	eSKS	49 20
	e	52 35
	eL	17 13 21
	F	18.5
September 28		
Balboa Heights	e	19 41 27
	F	19.8

Date and Station	Phase	(GCT) h m s
September 29, H_{P-H} = 19h 08.2m. Epicenter in the region 52°N. and 171°W. Aleutian Islands.		
College	eP	19 12 16
	eS	15 23
	eL	16 29
	F	19.4
Honolulu	eL	18 52 09
	F	19.2
Sitka	iP	19 12 56
	ePP	13 23
	eS	16 37
	eL	19 03
	F	20.3
Tucson	iP	19 16 41
	i	16 53
	eL	30 14
	F	20.7
Ukiah	eL	19 22 08
	F	20.5
September 29		
Tucson	iP	19 36 26
	i	36 38
	F	19.7
September 30		
Tucson	eP	12 11 20
	e	11 29
	i	11 36
	F	12.2
September 30		
Tucson	iP	20 09 18
	F	20.2

Local and Minor Quakes

day	hour
Butte	
July	
15	20.7
27	1.2
	1.8
College	
July	
29	22.8
Aug.	
6	15.5
16	16.1
23	9.0
	14.4
Sept.	
12	4.9
Honolulu	
July	
3	7.3
11	20.5
	21.8
	22.3
	22.9
	23.2
	23.7
12	0.0
	0.3
	20.4
	22.8
	23.2
	23.6
13	0.0
	0.4
	20.1
	20.6
	22.0
	22.4
22	22.3
Aug.	
5	21.8
	22.5
	23.2
	23.9
7	20.3
8	0.6
	19.2
	19.7
	20.2
	20.7
	21.2
	22.0
	22.8
	23.8
9	20.1
	20.7
	22.2

day	hour
Honolulu	
Aug.	
9	22.7
	23.1
	23.7
10	0.1
19	0.6
Sept.	
9	0.7
Huancayo	
July	
1	8.9
4	17.7
9	14.5
	14.5
	17.3
	20.0
10	14.7
13	3.8
	9.0
	10.0
15	11.2
	11.7
16	14.0
19	11.2
	16.2
23	18.7
Aug.	
1	18.6
2	2.6
3	10.6
	11.8
	17.5
4	6.6
5	8.7
7	1.8
	3.7
	3.9
	4.5
	4.7
	6.5
8	6.8
	7.5
	7.8
9	4.4
	5.7
11	1.6
12	23.3
13	7.6
14	15.4
15	2.2
	2.8
	10.8
17	10.2
	11.2
18	10.4
19	13.5
22	20.1

day	hour
Huancayo	
Aug.	
24	15.2
	21.8
25	17.4
28	0.7
	1.0
Sept.	
1	15.1
3	1.8
	6.6
	16.9
4	0.2
5	20.2
6	10.2
	16.8
9	2.3
10	1.0
	20.0
11	6.9
12	12.9
15	8.4
	14.8
	15.8
16	3.2
	3.4
	4.1
	17.5
17	2.2
18	2.8
19	13.3
20	6.8
	9.8
	10.1
	13.6
	17.2
22	12.6
24	1.4
	4.4
25	5.8
26	15.8
	16.2
29	2.7
	9.3
	11.2
30	7.4
	14.4
	16.9
Montezuma	
July	
19	20.9
25	21.5
26	9.9
29	11.0
Aug.	
10	9.9

Local and Minor Quakes (continued)

day	hour
Montezuma	
Sept.	
2	1.0
	3.1
	19.6
Rapid City	
Sept.	
5	4.0
9	4.2
20	14.6
26	14.7
San Juan	
July	
7	16.8
8	7.0
16	4.6
	22.5
18	4.4
30	4.4
31	20.5
Aug.	
8	23.8
16	21.8
20	4.8
27	8.6
	11.9
30	8.9
Sept.	
7	17.3
14	1.7
	14.5
15	14.5
18	18.6
Seattle	
Sept.	
18	11.9
Sitka	
Aug.	
23	9.0
Tucson	
July	
1	5.2
	18.2
	19.4
	19.6
	19.8
	21.2
2	2.0
	3.7
	16.2
3	4.6
	7.5
	19.8
	21.9
	22.0
	23.3

day	hour
Tucson	
July	
4	16.9
5	4.3
	10.3
	11.2
	17.1
	19.5
	19.9
	20.8
	21.7
6	1.5
	1.5
	10.1
	11.6
	23.3
7	1.5
	2.6
	6.3
	16.6
	19.3
8	0.5
	8.4
	9.0
	9.0
	9.4
	10.5
	15.3
	17.6
	18.1
	19.7
9	0.5
	2.0
	2.9
	2.9
	4.4
	4.6
	9.6
	16.2
	19.7
10	4.6
	6.5
	16.3
	16.7
	19.9
	20.4
11	17.9
	17.9
	18.1
	20.4
12	7.3
	10.1
	13.4
	15.4
	15.5
	15.7
	17.4
	17.5
	20.6
13	6.1
	15.6
	18.4

day	hour
Tucson	
July	
13	18.8
	20.1
	20.6
14	10.0
	10.1
	16.1
	17.1
	18.5
	20.7
	22.4
	22.8
	23.0
15	4.2
	13.1
	18.1
	19.7
	19.9
	20.8
	23.0
16	8.8
	11.8
	14.1
17	8.5
	19.8
	20.3
	21.4
	22.7
18	0.7
	0.8
	0.8
	0.9
	0.9
	1.5
	1.6
	14.5
	20.3
	21.2
	22.5
19	11.3
	11.6
	19.1
	21.0
20	2.6
	7.6
	11.2
	15.7
	16.2
	17.0
	21.1
	21.4
	21.5
21	2.4
	6.4
	10.5
	16.1
	17.3
	19.4
	19.8
	19.9
	20.0

Local and Minor Quakes (continued)

day	hour
Tucson	
July	
21	20.5
	20.9
	22.1
22	4.9
	5.3
	6.4
	7.8
	11.4
	18.1
	20.2
	20.6
	21.5
	22.3
	22.8
	23.0
	23.9
23	3.4
	3.6
	4.4
	4.9
	10.6
	11.1
	12.0
	16.8
	23.7
24	14.3
	15.3
	17.2
	18.3
	21.9
	22.3
25	9.7
	15.6
	17.7
	18.1
	18.4
	19.0
	19.5
	20.1
	20.6
	21.7
26	5.1
	9.1
	13.5
	15.0
	20.0
	23.2
27	1.3
	3.1
	10.7
	17.2
	19.4
28	3.7
	12.0
	17.7
	18.2
	20.1
29	9.9
	11.2
	11.7

day	hour
Tucson	
July	
29	13.1
	19.9
	22.1
30	0.0
	9.2
	9.6
	10.3
	13.6
	18.1
	20.4
31	10.9
	17.9
	20.3
	22.0
	22.1
Aug.	
1	3.8
	5.2
	8.9
	11.7
	12.4
	17.4
	17.9
	18.7
	19.5
	20.1
	22.3
2	1.5
	4.9
	11.4
	14.6
	17.2
	17.8
	18.1
	20.3
	20.7
	22.2
3	1.4
	10.3
	10.4
	14.6
	19.4
	21.4
	21.5
4	9.5
	16.6
	20.5
	20.8
	21.0
5	1.3
	14.4
	17.4
	19.6
	19.7
6	11.7
	16.5
	18.8
7	5.1
	5.3

day	hour
Tucson	
Aug.	
7	6.2
	6.3
	6.4
	6.5
	13.8
	17.5
	21.7
	21.7
	22.5
	23.8
8	10.7
	16.3
	18.5
	23.9
9	5.7
	6.6
	7.6
	8.3
	8.7
	12.9
	13.2
	13.9
	15.9
	20.4
	21.2
10	3.3
	5.7
	10.2
	15.6
	18.1
	19.6
11	8.1
	9.9
	17.1
	17.6
	18.1
	20.3
	21.5
	22.5
12	4.6
	15.1
	15.2
	18.9
	20.2
	22.1
13	3.8
	4.8
14	16.5
	20.5
	22.3
	23.4
15	15.3
	18.8
	22.3
	23.2
16	6.8
	10.8
	15.2
	15.8
	16.8

Local and Minor Quakes (continued)

day	hour
Tucson	
Aug.	
16	21.7
17	3.7
	3.9
	4.5
	5.7
	7.3
	8.3
	17.8
	18.2
	19.8
	20.3
	21.5
	22.1
18	0.2
	1.6
	10.7
	16.9
	18.1
	19.7
	22.0
19	7.1
	8.7
	20.0
	20.4
	21.3
20	15.5
	17.3
	18.8
	21.8
21	1.3
	15.2
	16.2
	16.9
	20.9
22	1.8
	5.8
	7.4
	8.5
	11.0
	17.0
	19.5
23	0.3
	9.1
	14.2
	21.6
24	21.6
	22.1
25	5.6
	7.7
	8.0
	13.1
	15.4
	19.3
	21.7
26	2.1
	10.6
	11.0
	21.8
	18.1
	20.2
	23.5

day	hour
Tucson	
Aug.	
27	2.0
	4.5
	11.2
	18.6
	23.7
28	1.6
	19.7
	20.4
	21.6
	22.1
29	7.6
	18.1
	19.0
	21.3
	22.1
30	2.1
	2.3
	3.1
	4.2
	13.7
	17.1
	17.1
	18.0
	20.1
31	2.5
	12.3
	15.8
	16.3
	16.3
Sept.	
1	19.7
	22.2
	22.5
2	4.8
	7.5
	18.2
	19.2
	19.6
	21.3
	22.1
3	1.2
	1.6
	10.5
	20.2
4	11.5
	22.2
5	13.9
	20.3
6	8.6
	13.8
	17.2
	20.7
	22.9
7	14.2
	17.6
	18.8
	21.6
	22.6
8	18.1
	20.4

day	hour
Tucson	
Sept.	
8	20.6
	21.6
9	19.2
	20.5
	21.9
10	5.5
	20.0
11	19.3
	23.5
12	11.3
	16.7
	17.1
	18.1
	18.3
	19.1
	20.3
	20.3
	21.5
13	0.8
	23.2
14	2.1
	16.9
	20.2
	20.4
	20.5
	21.5
	22.1
15	0.1
	15.3
	20.5
16	15.0
	17.5
	19.9
	21.9
17	0.1
	7.0
	7.1
	10.5
	10.9
	11.3
	20.2
18	0.3
	7.7
	17.2
	18.7
19	15.0
	19.2
	20.7
	21.4
	21.5
20	7.0
	17.3
	18.1
	18.6
	20.5
	22.1
21	1.7
	7.4
	10.4
	20.0
	20.6

Local and Minor Quakes (continued)

day	hour
Tucson	
Sept.	
21	21.4
	21.6
22	2.3
	4.6
	16.7
	18.7
	19.8
	20.7
	21.3
	22.2
23	5.5
	13.0
	13.5
	14.0
	14.8
	17.7
	20.6
	21.8
	22.7
24	10.1
	22.3
	23.6
	23.8

day	hour
Tucson	
Sept.	
25	10.8
	11.8
	15.4
	17.4
	19.0
26	3.4
	8.9
	17.6
	18.6
	20.8
	21.0
	21.7
	23.2
27	7.9
	9.6
	12.1
	12.6
28	18.7
	19.8
	23.0
29	9.2
	12.5
	16.3
	16.4
	17.1
	21.2

day	hour
Tucson	
Sept.	
29	22.2
	22.5
	23.5
30	0.9
	1.2
	1.3
	2.3
	3.6
	9.3
	16.9
	20.2
Ukiah	
July	
8	2.8
Sept.	
11	17.9
17	6.2
21	17.3
Chicago	
Sept.	
25	11.6