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EARTHQUAKES IN NORTHERN CALIFORNIA

AND

THE REGISTRATION OF EARTHQUAKES

AT

BERKELEY—MOUNT HAMILTON—PALO ALTO

SAN FRANCISCO—FERNDALE

FROM

October 1, 1934, to March 31, 1935

BY

JAMES T. WILSON

AND

WILBERT ANNIS

BULLETIN OF THE SEISMOGRAPHIC STATIONS

VOLUME 4, No. 4



✓ ✓ ✓
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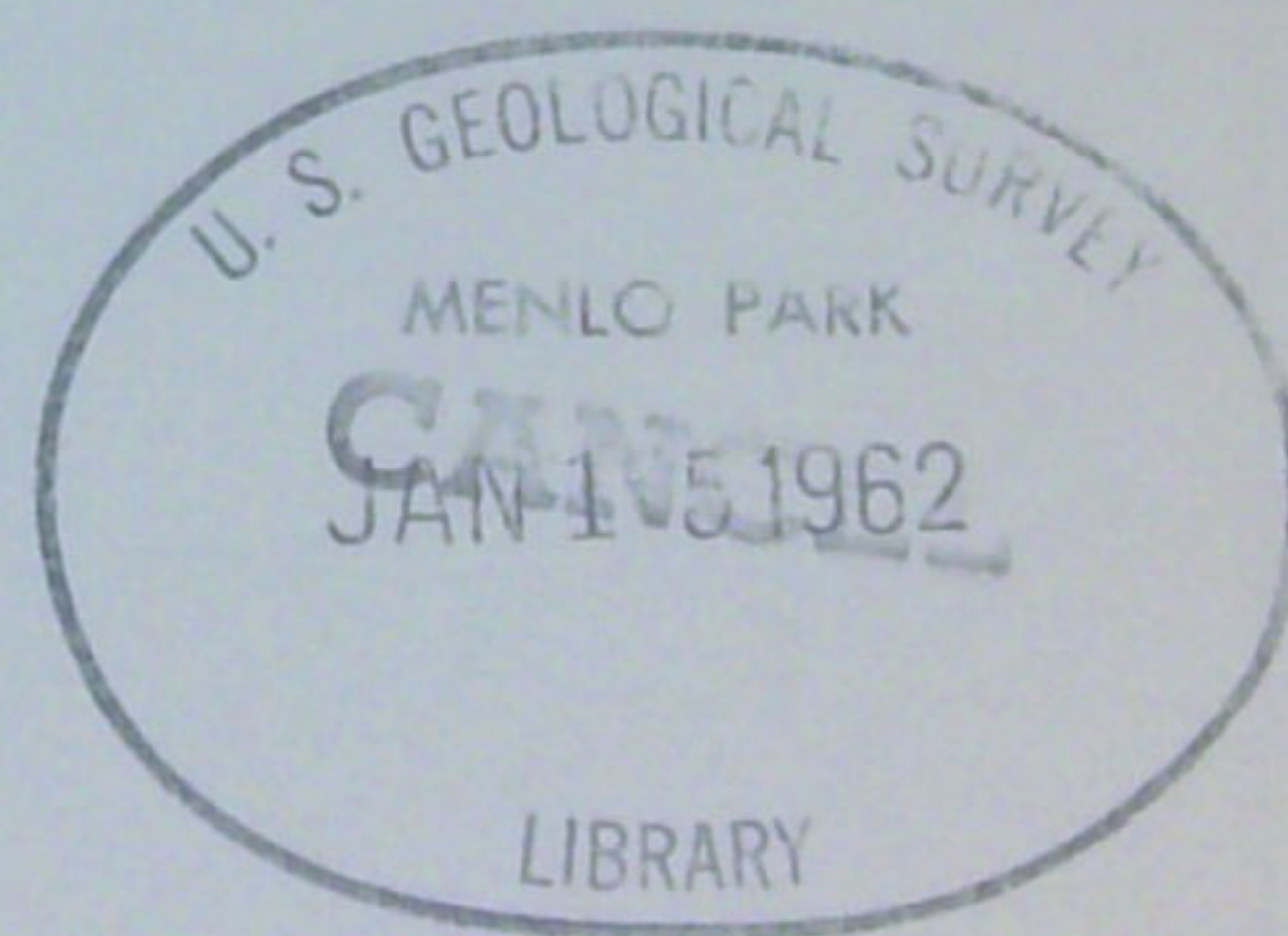
By

JAMES T. WILSON

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Bulletin of the Seismographic Station



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EARTHQUAKE INTENSITY SCALE



Criteria of the Rossi-Forel Scale which were used to rate the intensity of the earthquakes registered were:

Intensity

- | | |
|------|---|
| I-II | Felt by a few people only. Duration or direction not appreciable. |
| III | Duration or direction appreciable. |
| IV | Rattling of doors and windows; swinging of suspended objects. |
| V-VI | Disturbance of movable objects; plaster cracked. |
| VII | Overthrow of movable objects; cracking of chimneys and other brickwork. |
| VIII | Fall of some chimneys; some damage to buildings. |

EARTHQUAKES IN NORTHERN CALIFORNIA

(All intensities given on the Rossi-Forel Scale)



1934 -- PACIFIC STANDARD TIME

September 30, 4h 53m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; not reported felt; epicenter about 3 miles northeast of Napa. See map, epicenter no. 1.

September 30, 7h 41m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 6 miles northeast of Lick Observatory. See map, epicenter no. 2.

October 1, 9h 12m, a.m. Recorded at Mount Hamilton only; focus about 4 miles from Lick Observatory; not reported felt.

October 2, 12h 21m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco. Intensities:

VII. Colma, Portola district of San Francisco, South San Francisco.

V-VI. El Granada, Petaluma, Rockaway Beach, Sausalito, San Francisco, San Mateo.

IV. Agnew, Alcatraz, Alviso, Belvedere, Benicia, Corte Madera, Cowell, Fairfax, Fort Barry, Halfmoon Bay, Lafayette, Manor, Martinez, Montara, Moraga, Oakland, Richmond, Salada Beach, San Bruno, San Gregorio, San Leandro, Sunnyvale.

III. Centerville, Crockett, Kentfield, Mile Rock Light Station, Pinole, Redwood City, San Pablo, San Rafael, Tomales.

I-II. Alamo, Concord, Danville, El Cerrito, Hollister, La Honda, Larkspur, Milpitas, Mount Eden, Newark, San Jose. The reports of this shock were combined with the reports of the next shock by many observers so that the just given listing applies to the two earthquakes combined. The epicenter was very near Lake Merced (San Francisco). See map, epicenter no. 3.

October 2, 12h 31m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; felt in same region as previous shock, epicenter same as that of previous shock.

October 2, 2h 08, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; not reported felt; aftershock of previous shock. See map, epicenter no. 3.

October 2, 2h 14m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; not reported felt; aftershock of previous shock. See map, epicenter no. 3.

October 2, 7h 25m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 5 miles from Lick Observatory.

- 
- October 2, 10h 17m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; not reported felt; aftershock of quake at 12h 21m, See map, epicenter no. 3.
- October 3, 12h 23m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about halfway between Paicines and Soledad. See map, epicenter no. 4.
- October 4, 3h 36m, p.m. Recorded at Berkeley only; not reported felt; focus about 4 miles from the University campus.
- October 4, 7h 48m, p.m. Recorded at Mount Hamilton and poorly at Palo Alto; not reported felt; epicenter about 60 miles from Lick Observatory, probably southerly.
- October 5, 1h 38m, a.m. Recorded at Palo Alto only; not reported felt; focus about one-half mile from the Palo Alto station.
- October 5, 6h 17m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; IV at El Cerrito; epicenter about 3 miles northwest of the University campus. See map, epicenter no. 5.
- October 6, 7h 17m, a.m. Recorded at Palo Alto only; not reported felt; focus about 1 mile from the Palo Alto station.
- October 6, 12h 30m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; aftershock of the October 2 earthquakes. See map, epicenter no. 3.
- October 6, 6h 47m, p.m. Recorded at Berkeley, Palo Alto, Mount Hamilton, San Francisco; not reported felt; aftershock of the October 2 earthquakes. See map, epicenter no. 3.
- October 8, 0h 42m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; IV in San Francisco; aftershock of the October 2 earthquakes. See map, epicenter no. 3.
- October 11, 5h 53m, p.m. Recorded at Mount Hamilton, Palo Alto; not reported felt; epicenter about halfway between San Jose and Coyote. See map, epicenter no. 6.
- October 12, 7h 55m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; IV in Reno and Sparks (Nevada); the University of Nevada reports focus about 12 miles from Reno.
- October 13, 1h 07m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; not reported felt; aftershock of the October 2 earthquakes. See map, epicenter no. 3.
- October 13, 2h 17m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; not reported felt; aftershock of the October 2 earthquakes. See map, epicenter no. 3.



- October 13, 7h 09m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; not reported felt; aftershock of the October 2 earthquakes. See map, epicenter no. 3.
- October 15, 3h 56m, a.m. Recorded at Palo Alto only; not reported felt; focus about 6 miles from the Palo Alto station.
- October 16, 11h 33m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; IV at Colma and Daly City; felt in San Francisco and as far south as San Mateo; aftershock of the October 2 earthquakes. See map, epicenter no. 3.
- October 19, 12h 38m, p.m. Recorded at Berkeley only; not reported felt; focus about 4 miles from the University campus. (Blast?)
- October 21, 8h 54m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 5 miles northwest of the Palo Alto station. (Blast?) See map, epicenter no. 7.
- October 22, 5h 45m, a.m. Recorded at Palo Alto only; not reported felt; focus about 5 miles from the Palo Alto station, as for preceding shock.
- October 23, 1h 10m, p.m. Recorded at Berkeley, Mount Hamilton, San Francisco; not reported felt; epicenter about 5 miles southeast of Santa Cruz in Monterey Bay. See map, epicenter no. 8.
- October 24, 3h 54m, p.m. Recorded at Palo Alto only; not reported felt; focus about 6 miles from the Palo Alto station.
- October 24, 4h 04m, p.m. Recorded at Palo Alto only; not reported felt; focus about 5 miles from the Palo Alto station.
- October 24, 4h 56m, p.m. Recorded at Palo Alto only; not reported felt; focus about 6 miles from the Palo Alto station.
- October 24, 7h 20m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco. Intensities:
- V-VI. Presidio Terrace (San Francisco).
 - IV. Berkeley, Burlingame, Oakland, Rockaway Beach, San Francisco.
 - III. Ross, Southampton Shoal Light, Salada Beach; aftershock of the October 2 earthquakes. See map, epicenter no. 3.
- October 24, 10h 22m, p.m. Recorded at Berkeley, Palo Alto, San Francisco; not reported felt; epicenter about 5 miles north of Antioch. See map, epicenter no. 9.
- October 25, 6h 43m, a.m. Recorded at Palo Alto only; not reported felt; focus about 5 miles from the Palo Alto station.
- October 26, 11h 03m, a.m. Recorded at Berkeley only; not reported felt; focus about 4 miles from the University campus.



- October 26, 3h 56m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 10 miles from Lick Observatory.
- October 27, 1h 33m, a.m. Recorded at Berkeley only; not reported felt; focus about 10 miles from the University campus.
- October 27, 10h 39m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 12 miles southeast of Paicines. See map, epicenter no. 10.
- October 29, 5h 03m, p.m. Recorded at Berkeley only; not reported felt; focus about 3 miles from the University campus.
- October 31, 5h 52m, a.m. Recorded at Palo Alto only; not reported felt; focus about 6 miles from the Palo Alto station.
- November 4, 2h 13m, p.m. Recorded at Berkeley, Palo Alto, Mount Hamilton; not reported felt; epicenter about 15 miles southeast of Paicines. See map, epicenter same as no. 10.
- November 4, 3h 35m, p.m. Recorded at Berkeley, Palo Alto, Mount Hamilton; not reported felt; epicenter about 7 miles southwest of Hollister. See map, epicenter no. 11.
- November 5, 10h 01m, p.m. Recorded at Berkeley only; not reported felt; focus about 2 miles from the University campus.
- November 5, 11h 19m, a.m. Recorded at Berkeley, Palo Alto, San Francisco; not reported felt; epicenter about 4 miles southeast of Alameda. See map, epicenter no. 12.
- November 5, 3h 35m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 3 miles south of Los Gatos. See map, epicenter no. 13.
- November 6, 1h 59m, p.m. Recorded at Berkeley only; not reported felt; focus about 15 miles from the University campus.
- November 6, 4h 09m, p.m. Recorded at Berkeley, Palo Alto, San Francisco; not reported felt; epicenter about 10 miles northeast of Petaluma. See map, epicenter no. 14.
- November 6, 5h 44m, p.m. Recorded at Palo Alto only; not reported felt; focus about 9 miles from the Palo Alto station.
- November 8, 5h 49m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; not reported felt; epicenter about 3 miles northwest of Patterson. See map, epicenter no. 15.
- November 8, 4h 47m, p.m. Recorded at Mount Hamilton and poorly at Palo Alto; not reported felt; focus about 9 miles from Lick Observatory.
- November 8, 5h 07m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 11 miles from Lick Observatory.



November 11, 10h 15m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 9 miles north of Hollister. See map, epicenter no. 50.

November 11, 10h 25m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 6 miles west of Hollister. See map, epicenter no. 16.

November 12, 9h 05m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 9 miles from Lick Observatory.

November 12, 11h 29m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 6 miles from Lick Observatory.

November 15, 9h 37m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco, Ferndale; IV at Eureka; epicenter about 70 miles west of Cape Mendocino.

November 17, 9h 42m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco, Ferndale. Intensities:

V-VI. Shively.

IV. Alderpoint, Petrolia, Scotia, Upper Mattole.

III. Briceland, Ettersburg, Eureka, Fortuna; epicenter about 20 miles from the Ferndale station.

November 18, 4h 42m, a.m. Recorded at Ferndale only; IV at Fortuna and Upper Mattole; epicenter about 20 miles from the Ferndale station.

November 18, 8h 54m, a.m. Recorded at Mount Hamilton and poorly at Palo Alto; not reported felt; epicenter about 5 miles from Lick Observatory. See map, epicenter no. 17.

November 22, 5h 10m, p.m. Recorded at Berkeley only; not reported felt; focus about 18 miles from the University campus.

November 26, 2h 09m, a.m. Recorded at Berkeley only; not reported felt; focus about 25 miles from the University campus.

November 26, 2h 49m, p.m. Recorded at Berkeley only; not reported felt; focus about 9 miles from the University campus.

November 30, 4h 20m, a.m. Recorded at San Francisco only; not reported felt; focus about 8 miles from the San Francisco station.

November 30, 6h 27m, p.m. Recorded at Berkeley, Palo Alto, San Francisco; not reported felt; epicenter about 6 miles west of Hayward. See map, epicenter no. 18.

December 1, 5h 05m, a.m. Recorded at Mount Hamilton, Palo Alto; V at Paraiso Hot Springs; epicenter about 15 miles south of Paraiso Hot Springs. See map, epicenter no. 19.



ember 2, 8h 07m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto.
Intensities:

V. Parkfield.

IV. San Miguel; epicenter a few miles north of Parkfield.

ember 2, 5h 54m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco. Intensities:

V. Parkfield.

IV. King City, Paso Robles, San Miguel.

III. Bryson; epicenter a few miles north of Parkfield.

ember 3, 8h 26m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; not reported felt; epicenter just northwest of Colma. See map, epicenter no. 20.

ember 4, 10h 00m, a.m. Recorded at Mount Hamilton only; not reported felt; focus about 2 miles from Lick Observatory.

ember 4, 10h 01m, a.m. Recorded at Mount Hamilton only; not reported felt; focus about 4 miles from Lick Observatory.

ember 6, 9h 37m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 6 miles northeast of San Jose. See map, epicenter no. 21.

ember 6, 1h 21m, p.m. Recorded at Palo Alto only; not reported felt; focus about 9 miles from the Palo Alto Station.

ember 10, 10h 19m, p.m. Recorded at Ferndale only; IV at Upper Mattole; focus about 15 miles from the Ferndale station.

ember 12, 6h 30m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; IV in San Francisco; epicenter very near Colma. See map, epicenter no. 22.

ember 15, 8h 11m, a.m. Recorded at Mount Hamilton, Palo Alto; not reported felt; epicenter about 10 miles south of Paicines. See map, epicenter no. 23.

ember 15, 9h 00m, a.m. Recorded at Berkeley, Palo Alto, Ferndale, Mount Hamilton; IV at Ettersburg, Fortuna, Scotia, Shively, Southfork, Upper Mattole, Whitlow; epicenter about 6 miles from Ferndale.

ember 19, 1h 40m, a.m. Recorded at Berkeley only; not reported felt; focus about 8 miles from the University campus.

ember 19, 1h 49m, a.m. Recorded at Berkeley only; not reported felt; focus about 9 miles from the University campus.



ember 19, 12h 45m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 8 miles from Lick Observatory.

ember 19, 2h 54m, p.m. Recorded at Palo Alto only; not reported felt; focus about 8 miles from the Palo Alto station.

ember 21, 5h 04m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter very near the Palo Alto station. See map, epicenter no. 24.

ember 21, 5h 09m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; not reported felt; epicenter about 3 miles northeast of Wrights. See map, epicenter no. 25.

ember 21, 8h 14m, a.m. Recorded at Ferndale only; not reported felt; focus about 4 miles from the Ferndale station.

ember 22, 4h 50m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto and poorly at San Francisco; not reported felt; epicenter very near the Palo Alto station. See map, epicenter no. 24.

ember 24, 8h 26m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; V-VI at Parkfield; epicenter about 4 miles northwest of Parkfield.

ember 30, 5h 55m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco. Intensities:

V-VI. Santa Cruz.

IV. Alviso, Antioch, Corte Madera, Hayward, Laurel, Los Altos, Los Gatos, Morgan Hill, Mountain View, Oakland, Pacific Grove, Palo Alto, Pescadero, Piedmont, Pigeon Point Light Station, San Anselmo, San Francisco, San Mateo, Sequel, Southampton Shoal Light.

III. Agnew, Aptos, El Granada, Halfmoon Bay, Redwood City, Ross.

I-II. Olema, Spreckels; epicenter 2 miles northwest of Santa Clara. See map, epicenter no. 26.

ember 30, 6h 58m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 2 miles northeast of Niles. See map, epicenter no. 27.

ember 30, 7h 04m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 6 miles west of Santa Clara. See map, epicenter no. 28.

ember 30, 7h 12m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 6 miles west of Santa Clara; aftershock of preceding earthquake. See map, epicenter no. 28.



December 30, 11h 04m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 7 miles west of Santa Clara; aftershock of previous earthquake. See map, epicenter no. 28.

December 30, 9h 51m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco. Intensities:

IV. Los Altos and Pigeon Point Light Station.

III. Los Gatos, Palo Alto, San Francisco.

I-II. Halfmoon Bay and San Mateo.

5 -- PACIFIC STANDARD TIME

January 2, 2h 41m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco, Ferndale. Intensities:

V-VI. Alderpoint, Fort Bragg, Korb, Orleans, Skelly.

IV. Albion, Alton, Arcata, Benbow, Blocksburg, Burnt Ranch, Etersburg, Eureka, Fields Landing, Garberville, Harris, Honeydew, Miranda, Petrolia, Rio Dell, Rhonerville, Scotia, South Fork, Weott, Upper Mattole, Waddington.

III. Bayside, Carlotta, Cummings, Eel Rock, Ferndale, Fresh Water, Westport.

I-II. Fort Seward, Klamath, McCann, Piercy, Samoa, Stumpville; epicenter about 50 miles west of Cape Mendocino.

January 2, 7h 36m, p.m. Recorded at Berkeley only; not reported felt; focus about 14 miles from the University campus.

January 2, 9h 45m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 6 miles west of Santa Clara; aftershock of the December 30 earthquakes. See map, epicenter no. 28.

January 2, 11h 49m, p.m. Recorded at Palo Alto only; not reported felt; focus about 11 miles from the Palo Alto station.

January 3, 9h 36m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco. Intensities:

V-VI. Sunnyvale.

IV. Agnew and Santa Cruz.

III. San Jose; epicenter about 6 miles northwest of Santa Clara; aftershock of the December 30 earthquakes. See map, epicenter no. 28.

January 3, 9h 47m, a.m. Recorded at Mount Hamilton, Palo Alto; not reported felt; probably an aftershock of the preceding earthquake. See map, epicenter no. 28.



January 3, 9h 49m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 5 miles west of Santa Clara; aftershock of the December 30 earthquakes. See map, epicenter no. 28.

January 3, 10h 07m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 10 miles west of Santa Cruz. See map, epicenter no. 29.

January 3, 10h 17m, a.m. Recorded at Palo Alto only; not reported felt; focus about 7 miles from the Palo Alto station.

January 3, 10h 43m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; not reported felt; epicenter about 6 miles west of Santa Clara; aftershock of the December 30 earthquakes. See map, epicenter no. 28.

January 4, 3h 15m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; not reported felt; epicenter about 6 miles north of Napa. See map, epicenter no. 30.

January 5, 5h 13m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 3 miles northwest of Niles. See map, epicenter no. 31.

January 5, 11h 16m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 6 miles west of Santa Clara; aftershock of the December 30 earthquakes. See map, epicenter no. 28.

January 5, 11h 18m, a.m. Recorded at Palo Alto only; not reported felt; focus about 10 miles from the Palo Alto station.

January 5, 11h 52m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 6 miles west of Santa Clara; aftershock of the December 30 earthquakes. See map, epicenter no. 28.

January 5, 12h 14m, p.m. Recorded at Palo Alto and poorly at Berkeley; not reported felt; focus about 8 miles from the Palo Alto station.

January 5, 1h 40m, p.m. Recorded at Berkeley and poorly at Palo Alto; not reported felt; focus about 38 miles from the University campus.

January 5, 1h 57m, p.m. Recorded at Palo Alto only; not reported felt; focus about 10 miles from the Palo Alto station.

January 5, 3h 18m, p.m. Recorded at Palo Alto only; not reported felt; focus about 15 miles from the Palo Alto station.

January 5, 8h 05m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; V at Parkfield; epicenter near Parkfield.

January 5, 8h 40m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto.
 Intensities:

V. Parkfield.

IV. Paso Robles.

III. Shandon; epicenter near Parkfield.

January 6, 3h 25m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; not reported felt; epicenter about 6 miles west of Santa Clara; aftershock of the December 30 earthquakes. See map, epicenter no. 28.

January 7, 6h 32m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 5 miles north of Watsonville. See map, epicenter no. 32.

January 7, 6h 35m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, San Francisco; IV at Hollister; epicenter about 3 miles northeast of Watsonville. See map, epicenter no. 33.

January 7, 6h 56m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 5 miles southeast of Watsonville. See map, epicenter no. 34.

January 7, 9h 30m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 30 miles from Lick Observatory.

January 8, 7h 50m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; III at Hollister; epicenter about 8 miles south of Gilroy. See map, epicenter no. 35.

January 10, 1h 32m, a.m. Recorded at Mount Hamilton only; not reported felt; focus about 35 miles from Lick Observatory.

January 10, 2h 14m, a.m. Recorded at Mount Hamilton only; not reported felt; focus about 7 miles from Lick Observatory.

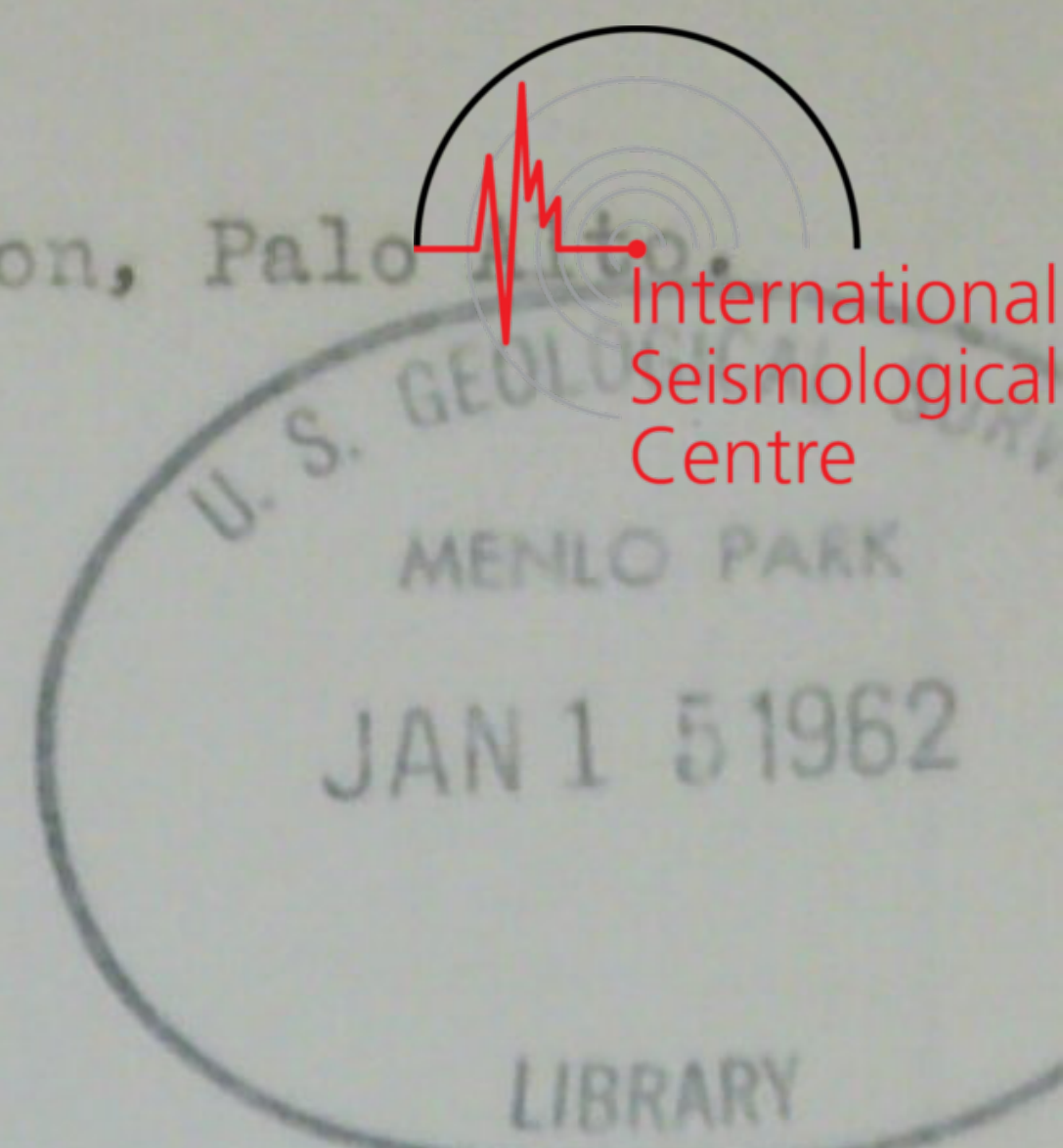
January 10, 2h 30m, a.m. Recorded at Mount Hamilton only; not reported felt; focus about 8 miles from Lick Observatory.

January 10, 3h 07m, a.m. Recorded at Mount Hamilton only; not reported felt; focus about 8 miles from Lick Observatory.

January 13, 7h 56m, p.m. Recorded at Palo Alto only; not reported felt; focus about 12 miles from the Palo Alto station.

January 13, 11h 05m, p.m. Recorded at Palo Alto only; not reported felt; focus about 12 miles from the Palo Alto station.

January 16, 2h 03m, a.m. Recorded at Mount Hamilton only; not reported felt; focus about 18 miles from Lick Observatory.





- January 16, 4h 22m, p.m. Recorded at Berkeley only; not reported felt; focus about 4 miles from the University campus.
- January 18, 1h 43m, a.m. Recorded at Berkeley, Palo Alto, San Francisco; IV at San Francisco; epicenter 4 miles east of Colma. See map, epicenter no. 49.
- January 19, 2h 45m, p.m. Recorded at Berkeley only; not reported felt; focus about 4 miles from the University campus.
- January 20, 9h 28m, p.m. Recorded at Berkeley only; not reported felt; focus about 11 miles from the University campus.
- January 21, 12h 47m, p.m. Recorded at Palo Alto only; not reported felt; focus about 18 miles from the Palo Alto station.
- January 22, 7h 22m, p.m. Recorded at Mount Hamilton, Palo Alto; not reported felt; epicenter about 6 miles east of Watsonville. See map, epicenter no. 36.
- January 23, 3h 44m, p.m. Recorded at Berkeley only; not reported felt; focus about 8 miles from the University campus.
- January 24, 3h 00m, p.m. Recorded at Berkeley only; not reported felt; focus about 8 miles from the University campus.
- January 24, 9h 02m, p.m. Recorded at Berkeley, Mount Hamilton; not reported felt; epicenter about 7 miles southeast of Antioch.
- January 26, 9h 25m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 6 miles northeast of Paicines. See map, epicenter no. 37.
- January 27, 9h 25m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 5 miles west of Tracy. See map, epicenter no. 38.
- January 28, 3h 10m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 4 miles west of Santa Clara; aftershock of the December 30 earthquakes. See map, epicenter no. 28.
- January 29, 12h 41m, p.m. Recorded at Berkeley only; not reported felt; focus about 9 miles from the University campus.
- January 31, 2h 29m, p.m. Recorded at Palo Alto only; not reported felt; focus about 11 miles from the Palo Alto station.
- February 1, 4h 50m, p.m. Recorded at Berkeley only; not reported felt; focus about 5 miles from the University campus.
- February 2, 5h 30m, a.m. Recorded at Mount Hamilton and poorly at Palo Alto; epicenter about 80 miles south of Lick Observatory.



- bruary 3, 6h 13m, a.m. Recorded at Palo Alto and poorly at Mount Hamilton; not reported felt; epicenter probably a few miles northwest of Santa Clara.
- bruary 3, 8h 39m, a.m. Recorded at Palo Alto only; not reported felt; focus about 9 miles from the Palo Alto station.
- bruary 3, 7h 43m, p.m. Recorded at Mount Hamilton, Palo Alto; not reported felt; epicenter about 6 miles north of Soledad. See map, epicenter no. 3.
- bruary 4, 3h 32m, a.m. Recorded at Berkeley only; not reported felt; focus very near the Berkeley station.
- bruary 4, 5h 08m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 9 miles from Lick Observatory.
- bruary 8, 3h 59m, p.m. Recorded at Mount Hamilton, Palo Alto; not reported felt; epicenter about 4 miles south of Spreckels. See map, epicenter no. 40.
- bruary 10, 8h 43m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 5 miles from Lick Observatory.
- bruary 11, 0h 19m, a.m. Recorded at Palo Alto only; not reported felt; focus about 22 miles from the Palo Alto Station.
- bruary 13, 4h 44m, p.m. Recorded at Berkeley only; not reported felt; focus about 5 miles from the University campus.
- bruary 13, 6h 12m, p.m. Recorded at Berkeley only; not reported felt; focus about 7 miles from the University campus.
- bruary 15, 3h 00m, a.m. Recorded at Mount Hamilton only; not reported felt; focus about 6 miles from Lick Observatory.
- bruary 15, 4h 26m, p.m. Recorded at Palo Alto only; not reported felt; focus about 40 miles from the Palo Alto station.
- bruary 16, 8h 15m, a.m. Recorded at Palo Alto only; not reported felt; focus about 7 miles from the Palo Alto station.
- bruary 17, 0h 04m, a.m. Recorded at Mount Hamilton only; not reported felt; focus about 7 miles from Lick Observatory.
- bruary 17, 8h 02m, p.m. Recorded at Mount Hamilton, Palo Alto; not reported felt; epicenter about 80 miles south of Lick Observatory. See map, epicenter no. 41.
- bruary 18, 10h 05m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 7 miles from Lick Observatory.
- bruary 19, 6h 17m, a.m. Recorded poorly at Mount Hamilton and Palo Alto; not reported felt; epicenter about 80 miles south of Lick Observatory.



February 20, 11h 31m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 4 miles northwest of Lick Observatory. See map, epicenter no. 42.

February 20, 3h 05m, p.m. Recorded at Palo Alto only; not reported felt; focus about 10 miles from the Palo Alto station.

February 21, 3h 52m, a.m. Recorded at Mount Hamilton only; not reported felt; focus about 15 miles from Lick Observatory.

February 22, 1h 51m, a.m. Recorded at Mount Hamilton only; not reported felt; focus about 13 miles from Lick Observatory.

February 23, 5h 09m, p.m. Recorded at Berkeley only; not reported felt; focus about 25 miles from the University campus.

February 28, 2h 23m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 6 miles north of Salinas. See map, epicenter no. 43.

February 28, 3h 43m, a.m. Recorded at Mount Hamilton and poorly at Palo Alto; epicenter about 5 miles southeast of Hollister. See map, epicenter no. 44.

February 28, 11h 07m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; felt in King City, San Ardo, and San Lucas; epicenter near Gorda. See map, epicenter no. 45.

March 1, 6h 58m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 65 miles from Lick Observatory, probably south.

March 2, 7h 29m, a.m. Recorded at Mount Hamilton, Palo Alto; not reported felt; epicenter about 7 miles south of Gilroy Hot Springs. See map, epicenter no. 46.

March 3, 2h 19m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto, Ferndale. Intensities:

IV. Bridgeville, Ettersburg, Shively, South Fork, Upper Mattole, Whitlow.

III. Scotia; epicenter near Upper Mattole.

March 3, 3h 26m, a.m. Recorded at Mount Hamilton, Palo Alto and poorly at Berkeley; not reported felt; epicenter about 5 miles south of Spreckels. See map, epicenter same as 40.

March 5, 8h 52m, p.m. Recorded at Berkeley, Mount Hamilton, Palo Alto. Intensities:

IV. Ahwahnee, El Portal, Le Grand, North Fork, Chowchilla.

III. Planada, Raymond; epicenter near Hornitos.

- March 6, 2h 01m, p.m. Recorded at Palo Alto only; not reported felt; focus about 15 miles from Palo Alto.
- March 11, 3h 10m, a.m. Recorded at Berkeley only; not reported felt; focus about 15 miles from the University campus.
- March 11, 11h 44m, a.m. Recorded at Palo Alto only; not reported felt; focus about 10 miles from the Palo Alto station.
- March 12, 2h 18m, a.m. Recorded at Berkeley, Mount Hamilton, Palo Alto; not reported felt; epicenter about 8 miles north of Santa Clara. See map, epicenter no. 47.
- March 14, 3h 04m, p.m. Recorded at Berkeley only; not reported felt; focus about 5 miles from the University campus.
- March 17, 8h 08m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 7 miles from Lick Observatory.
- March 18, 4h 02m, p.m. Recorded at Berkeley only; not reported felt; focus about 8 miles from the University campus.
- March 21, 1h 10m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 12 miles from Lick Observatory.
- March 21, 2h 35m, p.m. Recorded at Mount Hamilton only; focus about 5 miles from Lick Observatory.
- March 21, 2h 38m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 8 miles from Lick Observatory.
- March 21, 5h 30m, p.m. Recorded at Berkeley only; not reported felt; focus about 8 miles from the University campus.
- March 22, 8h 17m, a.m. Recorded at Palo Alto only; not reported felt; focus about 50 miles from the Palo Alto station.
- March 22, 1h 45m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 7 miles from Lick Observatory.
- March 23, 0h 26m, a.m. Recorded at Berkeley, Palo Alto; IV at Hopland; epicenter near Hopland.
- March 24, 7h 43m, p.m. Recorded at Mount Hamilton only; not reported felt; focus about 4 miles from Lick Observatory.
- March 25, 7h 38m, a.m. Recorded at Mount Hamilton, Palo Alto; not reported felt; epicenter about 6 miles east of Watsonville. See map, epicenter no. 36.
- March 27, 5h 50m, a.m. Recorded at Mount Hamilton only; not reported felt; focus about 45 miles from Lick Observatory.

ch 28, 4h 21m, a.m. Recorded at Mount Hamilton, Palo Alto; not reported felt; epicenter about 2 miles northwest of Gilroy Hot Springs. See map. epicenter no. 48.



ch 30, 1h 28m, a.m. Recorded at Berkeley only; not reported felt; focus about 20 miles from the University campus.

ch 31, 3h 10m, a.m. Recorded at Mount Hamilton only; not reported felt; focus about 9 miles from Lick Observatory.

Epicenters located in the preceding list are plotted on the accompanying map. A number and a letter are given beside each epicenter. The number is that assigned to the earthquake in the preceding list. Only those earthquakes are plotted for which epicenters were located. The letter represents the excellence with which the epicenter has been located, A indicating excellent, B good, C fair, D poor.

THE REGISTRATION OF EARTHQUAKES

SYMBOLS AND NOTATIONS EMPLOYED

Character of the Earthquake--

I. Perceptible. II. Moderately strong. III. Strong.

d (terrae motus domesticus)	Local shock (origin less than 100 kilometers distant).
v (terrae motus vicinus)	Near shock (origin from 100 to 1,000 kilometers distant).
r (terrae motus remotus)	Distant shock (origin from 1,000 to 5,000 kilometers distant).
u (terrae motus ultimus)	Very distant shock or teleseism (origin more than 5,000 kilometers distant).

Phases of the Seismogram--

P (undae primae)	Normal first phase, or first preliminary tremors (longitudinal).
P'	First preliminary tremors which have penetrated the core of the earth.
PR _n	Waves n times reflected at the earth's surface.
S (undae secundae)	Second phase, or second preliminary tremors (transverse).
SR _n	Waves n times reflected at the earth's surface.
PS	Waves changed from longitudinal to transverse oscillation or vice versa through reflection at the earth's surface.
PPS	Waves twice reflected at the earth's surface, having been longitudinal on two branches of the path and transverse on one branch.

In general a bar over two letters denoting types of waves indicates refraction. The subscript _c denotes the boundary at about 2900 km. depth between the metallic core and the middle shell which surrounds it. Thus:

$\overline{S_c P_c S}$	Waves which have penetrated the core, having been transverse before entering and after leaving the core, and longitudinal within the core.
$\overline{P_c P_c} \overline{P_c P}$	Waves refracted at the core boundary into the core, reflected once at this boundary while within the core and again refracted out of the core, having remained longitudinal on all branches of the path.
L (undae longae)	Long waves of surface phase preceding M.
M (undae maximae)	Shorter and more regular waves of large amplitude in the surface phase.
M _n	Greatest motion in the surface phase.
C (coda)	Tail or end portion.
F (finis)	End of discernible movement.

For local earthquakes a special notation is used:

$\overline{P}$	The longitudinal wave which has traveled its whole path in the surface layer or crust of the earth.
$\overline{S}$	The transverse wave which has traveled its whole path in the surface layer of the earth.
P*	The longitudinal wave which has traveled the horizontal portion of its path in the intermediate layer.
S*	The corresponding transverse wave.

Nature of the Motion--

i (impetus)	Sudden beginning of the motion.
e (emersio)	Gradual beginning of the motion.
T (period)	Time of one complete oscillation.
A	Trace amplitude measured from the media line, + earth motion toward east, north, or zenith, - toward west, south, or nadir.
A _E	E-W component of A.
A _N	N-S component of A.
A _Z	Vertical component of A.

Time--

O (origin)	Time of shock at point of origin.
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CONSTANTS

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Latitude and longitude of the center of the seismographic room:

$$\begin{aligned}\varphi &= 37^{\circ} 52' 15'' \text{ N. Lat.} \\ \lambda &= 122^{\circ} 15' 36'' \text{ W. from Greenwich.}\end{aligned}$$

Time.--All determinations are reduced to Universal Time.

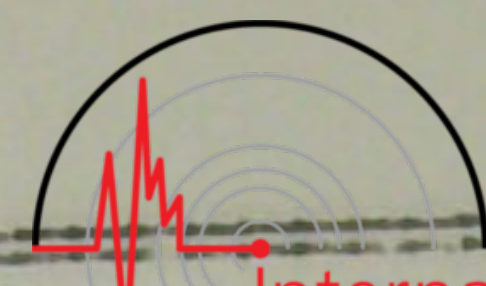
Altitude.--85 meters (279 feet) above mean sea level.

CONSTANTS OF THE SEISMOGRAPHS

Apparatus	Component	V	T_0	ϵ	$\frac{r}{T_0^2}$
Bosch-Omori 100 kg. ...	E	45	14	10	0.001
	N	45	9.5	10	0.001
Wiechert 80 kg.	Z	44	4	5	0.005
Wood-Anderson	E	3,000	0.9	15	
	N	3,000	0.9	15	
Galitzin		K	T	T_1	μ_2
	E	126	12	12	0
	N	125	12	12.1	0
	Z	121	12	11.8	0
Benioff		V	Coupled Period		ϵ
	Z	100,000(Ca)	0.7		5

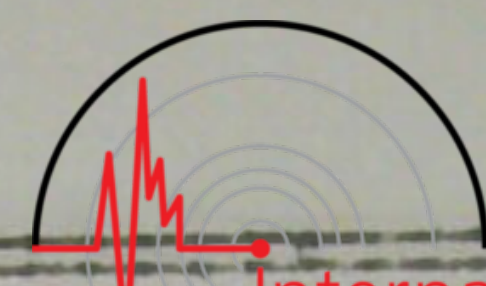
The letter G before a reading designates that the seismogram was from the Galitzin instrument; W, Wiechert; B, Bosch-Omori; A, Wood-Anderson; H, Benioff.

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 1	Id	iP _E Z	Z 00 53 03.4					See discussion, p. 2
		iS _E	A 00 53 10.9					
		eS _N	A 00 53 10.9					
		iz	Z 00 53 11.1					
		iz	Z 00 53 17.5					
		iz	Z 00 53 20.5					
		F	00 55					
Oct. 1	Id	eP _Z	Z 03 40 47.8					See discussion, p. 2
		iz	Z 03 40 48.5					
		iS _Z	Z 03 40 56.7					
		F	03 41					
Oct. 1	I	eP _Z	Z 18 24 31.2					
		iz	Z 18 24 35.4					
		iz	Z 18 25 13.7					
		eN	A 18 25 13.7					
		iE	A 18 25 14.7					
		iz	Z 18 25 15.7					
		F	18 27					
Oct. 2	IIId	iP _E	A 20 20 43.0					See discussion, p. 2
		iP _N	A 20 20 43.0					
		iP _Z	H 20 20 43.0					
		iS _E	A 20 20 48.0					
		F	20 23					
Oct. 2	IIId	iP _{NE}	A 20 30 47.7					See discussion, p. 2
		iP _Z	H 20 30 47.7					
		iE	A 20 30 51.5					
		iS _E	A 20 30 52.0					
		F	20 55					
Oct. 2	Id	iP*Z	H 22 08 12.3					See discussion, p.
		iP*E	A 22 08 12.3					
		iP _N	A 22 08 12.7					
		iP _Z	H 22 08 12.8					
		iN	A 22 08 13.8					
		eS*NE	A 22 08 16.0					
		iS _Z	H 22 08 16.3					
		iS _E	A 22 08 16.5					
		iS _N	A 22 08 16.7					
		F	22 09					

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Date	Char- acter	Phase	Time			Period	Amplitude			Remarks	
			U.T.				AE	AN	AZ		
1934				h.	m.	s.	s.	mm.	mm.	mm.	
Oct. 2	Id	$\overline{eP_N}$	A	22	14	12.5					See discussion, p.
		$\overline{eP_E}$	A	22	14	12.8					
		$\overline{iP_Z}$	H	22	14	13.0					
		$\overline{iS_Z}$	H	22	14	16.1					
		$\overline{iS_N}$	A	22	14	16.5					
		$\overline{iS_E}$	A	22	14	16.7					
		F		22	15						
Oct. 3	Id	$\overline{iP_N}$	A	06	17	30.7					See discussion, p.
		$\overline{iP_E}$	A	06	17	31.0					
		$\overline{iP_Z}$	H	06	17	31.0					
		$\overline{iS_Z}$	H	06	17	33.9					
		$\overline{iS_N}$	A	06	17	34.9					
		$\overline{iS_E}$	A	06	17	35.0					
		F		06	19						
Oct. 3	Iv	$\overline{eP_Z}$	H	20	23	56.6					See discussion, p.
		$\overline{iZ}$	H	20	24	04.1					
		$\overline{iZ}$	H	20	24	07.3					
		$\overline{iZ}$	H	20	24	14.8					
		$\overline{iZ}$	H	20	24	19.4					
		F		20	26						
Oct. 4	Id	$\overline{iP_N}$	A	23	36	23.6					See discussion, p.
		$\overline{iP_Z}$	H	23	36	23.6					
		$\overline{iS_{EN}}$	A	23	36	25.1					
		$\overline{iS_Z}$	H	23	36	25.1					
		F		23	37						
Oct. 6	IIId	$\overline{iP_Z}$	H	02	17	07.7					See discussion, p.
		$\overline{iP_{EN}}$	A	02	17	07.7					
		$\overline{iS_N}$	A	02	17	08.5					
		$\overline{iS_Z}$	H	02	17	08.7					
		$\overline{iS_E}$	A	02	17	09.5					
		F		02	19						
Oct. 6	IIId	$\overline{iP_Z}$	H	02	22	39.1					
		$\overline{iP_{EN}}$	A	02	22	39.2					
		$\overline{iS_N}$	A	02	22	40.6					
		$\overline{iS_E}$	A	02	22	40.7					
		F		02	23						
Oct. 6	Id	$\overline{eP_E}$	A	20	30	34.1					See discussion, p.
		$\overline{eP_Z}$	H	20	30	34.1					
		$\overline{iS_E}$	A	20	30	38.3					
		F		20	31						

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 7	Id	e $\overline{P}$ E	A 02 47 06.0					See discussion, p.
		i $\overline{S}$ E	A 02 47 10.0					
		F	02 48					
Oct. 8	Id	e $\overline{P}$ E	A 08 42 07.0					See discussion, p.
		e $\overline{P}$ Z	H 08 42 07.0					
		i $\overline{S}$ E	A 08 42 11.0					
		i $\overline{S}$ Z	H 08 42 11.0					
		F	08 45					
Oct. 10	Iu	i $\overline{P}$ EN	A 15 53 34.1					U.S.C. & G.S. epi- center 23°S 176°W
		i $\overline{S}$ N	A 16 03 04.8					
		i $\overline{S}$ E	A 16 03 05.8					
		F	16 20					
Oct. 10	Iu	i $\overline{P}$ EN	G 15 53 36.0					U.S.C. & G.S. epi- center 23°S 176°W
		i $\overline{S}$ EN	G 16 03 06.0					
		F	17 05					
Oct. 13	Iv	i $\overline{P}$ Z	H 03 55 51.5					See discussion, p.
		e $\overline{P}$ E	A 03 55 55.0					
		e $\overline{P}$ N	A 03 55 56.0					
		i $\overline{S}$ N	A 03 56 26.0					
		i $\overline{S}$ E	A 03 56 26.5					
		i $\overline{S}$ Z	H 03 56 27.5					
		F	03 58					
Oct. 13	Id	e $\overline{P}$ EN	A 09 07 05.3					See discussion, p.
		i $\overline{P}$ Z	H 09 07 05.4					
		i $\overline{S}$ Z	H 09 07 09.1					
		i $\overline{S}$ EN	A 09 07 09.3					
		F	09 08					
Oct. 13	Id	e $\overline{P}$ N	A 10 17 07.0					See discussion, p.
		e $\overline{P}$ E	A 10 17 07.2					
		i $\overline{P}$ Z	H 10 17 07.2					
		i $\overline{S}$ N	A 10 17 10.9					
		i $\overline{S}$ E	A 10 17 11.2					
		i $\overline{S}$ Z	H 10 17 11.2					
		F	10 18					
Oct. 13	Id	i $\overline{P}$ N	A 15 08 46.5					See discussion, p.
		i $\overline{P}$ Z	H 15 08 46.7					
		e $\overline{P}$ E	A 15 08 46.7					
		i $\overline{S}$ N	A 15 08 50.5					
		i $\overline{S}$ E	A 15 08 50.7					
		F	15 10					

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No.	Date	Char-acter	Phase	Time		Period	Amplitude			
				U.T.			A ₁	A ₂	A ₃	
	1934			h. m. s.		s.	mm.	mm.	mm.	
22	Oct. 14	I	eg lg lgn f	A	00 17 15.0					
				A	00 17 21.0					
				A	00 19 31.0					
					00 58					
23	Oct. 16	14	lf ₂ lf ₂ lgn f	A	19 32 48.6					See description, p.
				H	19 32 48.6					
				A	19 32 57.5					
					19 34					
24	Oct. 16	14	ef ₂ ef ₂ ef ₂ ls ₂ ls ₂ ls ₂ f	H	23 13 31.0					
				A	23 13 34.0					
				A	23 13 38.5					
				H	23 14 21.5					
				A	23 14 22.5					
				A	23 14 24.5					
					23 18					
25	Oct. 18	I	ef ₂ eg lgn f	G	08 10 48.0					
				G	08 11 28.0					
				G	08 21 10.0					
					10 58					
	Oct. 19	14	lf ₂ lf ₂ lgn ls ₂ f	H	20 57 51.0					See description, p.
				A	20 57 51.5					
				A	20 57 55.0					
				H	20 57 53.0					
					20 58					
27	Oct. 21	I	lf ₂ lf ₂ lg f	H	18 08 35.0					
				A	18 08 35.5					
				H	18 08 25.5					
					18 09					
	Oct. 22	14	lf ₂ eg ls ₂ lg lg f	H	04 54 33.5					See description, p.
				A	04 54 40.5					
				H	04 54 41.0					
				A	04 54 41.5					
				A	04 54 42.0					
					04 58					
	Oct. 23	14	lf ₂ lf ₂ eg ls ₂ lg lg f	A	21 09 32.5					See description, p.
				H	21 09 32.5					
				A	21 09 34.5					
				A	21 10 06.0					
				A	21 10 06.5					
				H	21 10 07.0					
					21 11					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 14	I	eN	A 00 17 13.0					
		iE	A 00 17 21.0					
		iEN	A 00 19 31.0					
		F	00 58					
Oct. 16	Id	iP _{EN}	A 19 32 48.6					See discussion, p.
		iP _Z	H 19 32 48.6					
		iS _{EN}	A 19 32 57.5					
		F	19 34					
Oct. 16	Iv	eP _Z	H 23 13 31.0					
		eP _N	A 23 13 34.0					
		eP _E	A 23 13 36.5					
		iS _Z	H 23 14 21.5					
		iS _N	A 23 14 22.5					
		iS _E	A 23 14 24.5					
		F	23 16					
Oct. 18	I	eP _E	G 08 10 45.0					
		eE	G 08 11 25.0					
		eG _{EN}	G 08 21 10.0					
		F	10 35					
Oct. 19	Id	iP _Z	H 20 37 51.0					See discussion, p.
		iP _{EN}	A 20 37 51.5					
		iS _{EN}	A 20 37 53.0					
		iS _Z	H 20 37 53.0					
		F	20 38					
Oct. 21	I	iP _Z	H 18 05 33.0					
		iP _{EN}	A 18 05 35.5					
		iZ	H 18 06 23.5					
		F	18 09					
Oct. 22	Id	iP _Z	H 04 54 33.5					See discussion, p.
		eE _N	A 04 54 40.5					
		iS _Z	H 04 54 41.0					
		iN	A 04 54 41.5					
		iE	A 04 54 42.0					
		F	04 55					
Oct. 23	Id	iP _N	A 21 09 52.5					See discussion, p.
		iP _Z	H 21 09 52.5					
		eP* _E	A 21 09 54.5					
		iS* _N	A 21 10 06.0					
		iS _E	A 21 10 06.5					
		iS _Z	H 21 10 07.0					
		F	21 11					

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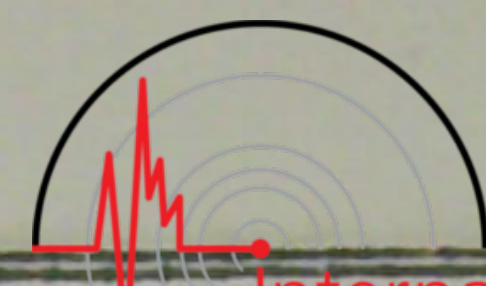

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 25	IIId	iP _E	A 03 20 26.4					See discussion, p.
		iP _N	A 03 20 26.6					
		iS _E	A 03 20 30.4					
		iS _N	A 03 20 30.6					
		F	03 22					
Oct. 25	Id	eP* _E	A 06 21 55.0					See discussion, p.
		eP* _N	A 06 21 55.5					
		i _E	A 06 21 58.7					
		iS* _E	A 06 22 01.1					
		iS* _N	A 06 22 01.5					
		F	07 23					
Oct. 26	Iv	iP _Z	H 17 23 08.0					
		iP _N	A 17 23 11.0					
		eP _E	A 17 23 11.0					
		iS _Z	H 17 23 40.0					
		F	17 26					
Oct. 26	Id	iP _Z	H 19 02 32.9					See discussion, p.
		eP _E	A 19 02 33.0					
		eP _N	A 19 02 33.2					
		iS _{EN}	A 19 02 34.2					
		iS _Z	H 19 02 34.2					
		F	19 03					
Oct. 27	Iv	iP* _Z	H 06 39 14.0					See discussion, p.
		iS* _Z	H 06 39 47.0					
		F	06 41					
Oct. 27	Id	iP _Z	H 09 32 47.0					See discussion, p.
		eP _{EN}	A 09 32 47.1					
		iS _{EN}	A 09 32 50.1					
		iS _Z	H 09 32 50.1					
		F	09 33					
Oct. 27	I	eP _E	G 17 33 52.0					
		e _E	G 17 44 36.0					
		e _E	G 17 50 01.0					
		eG _E	G 17 56 36.0					
		F	19 05					
Oct. 28	I	iP _Z	H 22 06 34.0					
		eP _E	A 22 06 44.5					
		eP _N	A 22 06 45.0					
		i _{EN}	A 22 07 23.0					
		i _Z	H 23 07 23.0					
		F	22 10					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 29	I	eZ	H 02 38 24.5					
		eEN	A 02 38 25.0					
		iz	H 02 38 30.0					
		F	02 57					
Oct. 29	IIr	iPEN	G 02 38 26.0					
		iPZ	G 02 38 26.0					
		iz	G 02 41 18.0					
		eSEN	G 02 41 23.0					
		eGE	G 02 42 58.0					
		eGZ	G 02 43 08.0					
		F	04 05					
Oct. 29	I	iz	H 23 35 13.0					
		iz	H 23 36 04.0					
		F	23 37					
Oct. 30	Id	eN	A 01 03 25.5					See discussion, p.
		ePE	A 01 03 25.5					
		iPZ	H 01 03 25.5					
		iN	A 01 03 26.1					
		iSZ	H 01 03 26.5					
		iSE	A 01 03 26.5					
		F	01 04					
Nov. 3	I	iPZ	H 23 31 59.5					
		iz	H 23 32 07.5					
		F	23 33					
Nov. 4	I	iPZ	H 02 06 13.5					
		iSZ	H 02 06 32.5					
		F	02 08					
Nov. 4	Iv	ePZ	H 22 12 57.0					See discussion, p.
		eN	A 22 13 00.0					
		eE	A 22 13 00.5					
		iE	A 22 13 16.0					
		iz	H 23 13 16.5					
		F	22 14					
Nov. 4	Iv	ePZ	H 23 35 09.7					See discussion, p.
		iSZ	H 23 35 28.5					
		F	23 36					
Nov. 5	Id	ePZ	H 06 01 09.5					See discussion, p.
		ePEN	A 06 01 10.0					
		iz	A 06 01 10.5					
		F	06 03					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Nov. 5	Id	iP _{EN}	A 19 19 03.3					See discussion, p.
		iP _Z	H 19 19 03.3					
		iS _{EN}	A 19 19 05.9					
		iS _Z	H 19 19 05.9					
		F	19 20					
Nov. 5	I	eP _Z	H 23 09 52.0					
		eN	A 23 09 54.0					
		eP _E	A 23 09 54.0					
		iz	H 23 10 06.0					
		iz	H 23 10 14.5					
		F	23 30					
Nov. 5	I	iz	G 23 09 54.0					U.S.C. & G.S. epi- center 52°N 176°W Strong microseisms
		iN	G 23 10 35.0					
		iN	G 23 14 55.0					
		eZ	G 23 16 20.0					
		eN	G 23 18 40.0					
		eZ	G 23 21 35.0					
		F	00 05					
Nov. 5	Id	iP* _Z	H 23 34 37.8					See discussion, p.
		iP* _{EN}	A 23 34 38.0					
		iS* _{EN}	A 23 34 48.3					
		iS* _Z	H 23 34 48.3					
		F	23 35					
Nov. 6	Id	iP _{EN}	A 21 58 42.5					See discussion, p.
		iP _Z	H 21 58 42.5					
		iS _{EN}	A 21 58 45.5					
		iS _Z	H 21 58 45.5					
		F	21 59					
Nov. 7	Id	eP _{EN}	A 00 08 54.5					See discussion, p.
		iP _Z	A 00 08 54.5					
		iS _N	A 00 09 02.0					
		iS _E	A 00 09 02.5					
		iS _Z	H 00 09 02.5					
		F	00 10					
Nov. 8	Iv	eP _N	A 13 48 41.5					See discussion, p.
		iP _Z	H 13 48 41.5					
		eP _E	A 13 48 42.5					
		iS _E	A 13 48 56.5					
		iS _Z	H 13 48 56.5					
		iS _N	A 13 48 57.0					
		F	13 50					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Nov. 9	I	i _Z	H	04 10 19.5				
		e _{EN}	A	04 10 20.0				
		F		04 13				
Nov. 12	Iv	eP* _Z	H	06 15 07.4				See discussion, p.
		e _Z	H	06 15 14.4				
		eS* _Z	H	06 15 24.4				
		F		06 16				
Nov. 12	Iv	iP _E	A	06 25 39.9				See discussion, p.
		e _Z	H	06 25 45.9				
		eS _Z	H	06 25 57.9				
		F		06 26				
Nov. 12	I	iP _Z	H	11 20 36.5				
		i _Z	H	11 21 20.0				
		F		11 23				
Nov. 16	Iv	iP _Z	H	05 37 26.0				See discussion, p.
		eP _E	A	05 37 26.0				
		eP _N	A	05 37 27.0				
		i _N	A	05 38 08.5				
		iS _Z	H	05 38 09.0				
		i _E	A	05 38 09.5				
		F		05 44				
Nov. 17	Iv	iP _Z	H	17 42 34.5				See discussion, p.
		iP _{EN}	A	17 42 35.0				
		iS _Z	H	17 43 07.5				
		iS _{EN}	A	17 43 08.0				
		F		17 46				
Nov. 19	I	e _E	G	05 37 49.0				
		e _N	G	05 38 04.0				
		i _N	G	05 39 19.0				
		i _E	G	05 39 29.0				
		F		06 06				
Nov. 23	Id	iP̄ _Z	H	01 10 08.5				See discussion, p.
		eP̄ _E	A	01 10 10.5				
		i _N	A	01 10 13.0				
		iS̄ _E	A	01 10 13.0				
		iS̄ _Z	H	01 10 13.0				
		F		01 11				

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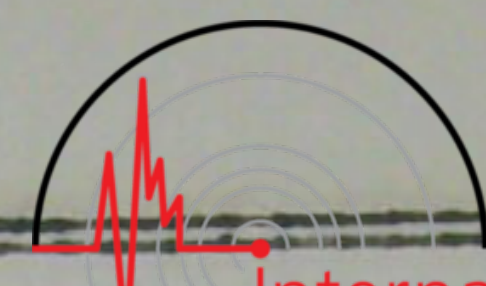
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Nov. 26	Id	iP _Z	H 10 09 21.5					See discussion, p.
		eP _N	A 10 09 25.0					
		eS _{EN}	A 10 09 27.0					
		iS _Z	H 10 09 27.0					
		F	10 10					
Nov. 26	Id	eP _{EN}	A 22 49 04.5					See discussion, p.
		iP _Z	H 22 49 04.5					
		iS _{EN}	A 22 49 06.5					
		iS _Z	H 22 49 06.5					
		F	22 50					
Nov. 27	Iu	iE	G 06 12 37.0					U.S.C. & G.S. epi- center 01°N 127°E
		iE	G 06 18 37.0					
		F	07 36					
Nov. 30	Ir	iP _E	A 02 10 32.0					U.S.C. & G.S. epi- center 20°N 104°W
		eP _E	G 02 10 32.5					
		iS _E	G 02 15 00.0					
		eS _Z	G 02 15 00.0					
		F	04 06					
Nov. 30	I	iE	A 19 32 25.0					No hour marks on N-
		iE	A 19 32 58.5					
		F	19 35					
Dec. 1	Id	iS _E	A 02 27 26.4					See discussion, p. S-P = 3.5 sec.
		F	02 28					
Dec. 2	I	iP _Z	H 16 07 49.0					See discussion, p.
		eN	A 16 07 53.5					
		eE	A 16 07 53.5					
		iZ	H 16 08 00.5					
		iE	A 16 08 34.5					
		iZ	H 16 08 34.5					
		iN	A 16 08 39.5					
		F	16 10					
Dec. 3	Iv	eP _N	A 01 55 05.5					See discussion, p.
		eP _E	A 01 55 05.5					
		iP _Z	H 01 55 05.0					
		iS _Z	H 01 55 39.5					
		iS _E	A 01 55 43.5					
		iS _N	A 01 55 44.0					
		iZ	H 01 55 45.0					
		iS _N	A 01 55 44.0					
		iZ	H 01 56 04.0					
		F	02 00					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Dec. 3	Ir	iz iP _E iP _Z eP _Z e _N e _E iz iz iz iS _Z iS _E iS _Z F	H 02 45 44.0 G 02 45 44.0 G 02 45 44.0 H 02 45 45.0 A 02 45 47.0 A 02 45 51.0 H 02 46 16.0 H 02 46 24.0 H 02 46 48.0 H 02 48 04.5 G 02 51 24.0 G 02 51 34.0 03 15					U.S.C. & G.S. epi- center 15°N 89°W
Dec. 4	Id	e _{ENZ} F	H 04 27+ 04 28					See discussion, p. $\overline{S-P} = 3.5$ sec.
Dec. 4	I	eP _N F	A 06 19 06 34 $\pm$					
Dec. 4	Iu	iP _Z eP _N eP _E iP _Z iz iz iz iN iE iS _Z eE iN F	G 17 36 16.0 A 17 36 18.0 A 17 36 19.0 H 17 36 25.5 H 17 36 35.5 H 17 36 47.5 H 17 36 50.0 G 17 45 51.0 G 17 45 54.0 G 17 46 06.0 G 17 46 21.0 G 17 46 26.0 18 36					U.S.C. & G.S. epi- center 19°S 70°W
Dec. 6	I	eP* _Z iS* _Z F	H 17 37 22.8 H 17 37 31.2 17 39					See discussion, p.
Dec. 7	I	iP _Z F	H 11 21 04.0 11 25					
Dec. 8	I	iP _Z F	H 09 40 53.0 09 44					

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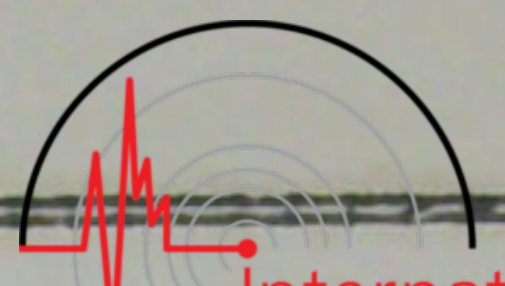
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Dec. 8	I	e _N	G 10 45 29.0					
		i _{PZ}	G 10 45 39.0					
		e _Z	G 10 45 39.0					
		e _Z	G 10 50 34.0					
		e _N	G 10 50 44.0					
		e _E	G 10 50 54.0					
		e _Z	G 10 51 29.0					
		i _E	G 10 53 04.0					
		F	11 06					
Dec. 12	I	e _{PEN}	A 08 52 23.0					
		i _{PZ}	H 08 52 22.0					
		i _Z	H 08 52 32.5					
		i _Z	H 08 52 53.5					
		F	08 57					
Dec. 13	Id	i _{P_{NE}}	A 02 29 38.7					See discussion, p.
		i _{PZ}	H 02 29 38.7					
		i _{S_{EN}}	A 02 29 42.6					
		F	02 31					
Dec. 15	II	i _Z	G 02 16 09.4					
		e _E	G 02 16 24.4					
		e _N	G 02 18 29.4					
		e _Z	G 02 19 19.4					
		i _E	G 02 22 34.4					
		F	04 36					
Dec. 15	Iv	e _E	G 17 00 20					See discussion, p.
		e _{EN}	A 17 00 51.5					
		i _Z	H 17 00 50.5					
		e _{SZ}	G 17 01 10.0					
		i _Z	H 17 01 20.5					
		i _N	G 17 01 55.0					
		i _Z	H 17 02 01.5					
		e _E	G 17 02 10.0					
		i _{SZ}	G 17 02 22.0					
		F	17 06					
Dec. 15	I	i _{PEN}	A 19 25 54.0					
		i _{PZ}	H 19 25 53.5					
		i _Z	H 19 26 52.5					
		i _Z	H 19 27 42.5					
		F	19 28					

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Date	Char- acter	Phase	Time U.T.			Period s.	Amplitude			Remarks
			h.	m.	s.		A _E mm.	A _N mm.	A _Z mm.	
1934										
Dec. 15	I	i _{EN}	G	19	35	25.5				
		e _E	G	19	36	15.5				
		e _E	G	19	36	40.5				
		F		19	51					
Dec. 17	I	i _{PZ}	H	11	10	54.5				
		e _{PE}	A	11	10	55.5				
		e _{PN}	A	11	10	56.0				
		e _N	G	11	11	13.0				
		i _Z	G	11	11	13.0				
		i _N	A	11	11	26.5				
		e _E	G	11	11	28.0				
		i _Z	H	11	11	42.0				
		i _E	A	11	11	50.5				
		i _Z	H	11	11	53.0				
		i _N	A	11	11	59.0				
		F		11	20					
Dec. 18	I	i _{PZ}	H	03	10	09.5				
		e _{PN}	A	03	10	11.5				
		e _{PE}	A	03	10	12.5				
		i _Z	H	03	10	31.5				
		i _Z	H	03	11	00.5				
		i _Z	H	03	11	25.0				
		i _N	A	03	11	26.0				
		i _E	A	03	11	26.5				
Dec. 19	Id	F		03	14					
		e _{PE}	A	09	39	58.6				See discussion, p.2
		i _{PZ}	H	09	39	58.9				
		i _{SEN}	A	09	40	00.6				
		i _{SZ}	H	09	40	00.9				
Dec. 19	Id	F		09	40					
		i _{PZ}	H	09	49	21.7				See discussion, p.2
		e _{PN}	A	09	49	22.6				
		i _{SEN}	A	09	49	23.6				
		i _{SZ}	H	09	49	23.8				
Dec. 21	Id	F		09	50					
		i _{PZ}	H	13	04	35.8				See discussion, p.
		e _{PN}	A	13	04	36.2				
		e _{PE}	A	13	04	36.7				
		i _{SZ}	H	13	04	41.7				
		i _{SE}	A	13	04	43.0				
		i _{SN}	A	13	04	43.7				
		F		13	05					

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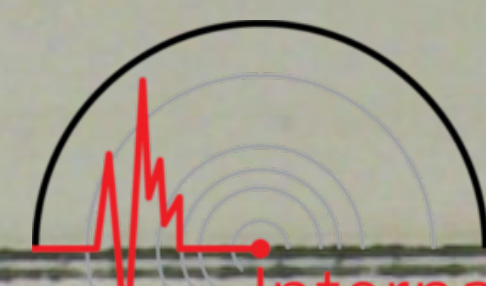

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Date	Char-acter	Phase	Time			Period	Amplitude			Remarks		
			U.T.				A _E	A _N	A _Z			
1934				h.	m.	s.	s.	mm.	mm.	mm.		
Dec. 21	I	iP _Z	H	17	33	32.5						
		eP _N	A	17	33	33.0						
		iS _Z	H	17	33	39.0						
		F		17	36							
Dec. 22	Id	iP* _Z	H	01	08	53.5					See discussion, p.	
		iP _{EN}	A	01	08	53.8						
		iP _Z	H	01	08	53.8						
		eS* _E	A	01	09	03.6						
		iS* _Z	H	01	09	04.0						
		iS* _N	A	01	09	04.0						
		iS _N	A	01	09	05.0						
		F		01	10							
Dec. 22	Ir	iP _E	G	14	37	01.0					U.S.C. & G.S. epi-center 8°N 89°W	
		iP _Z	H	14	37	22.5						
		e _E	A	14	37	23.0						
		e _N	A	14	37	25.0						
		i _Z	H	14	37	27.0						
		i _Z	H	14	37	33.0						
		i _Z	H	14	39	21.0						
		e _E	G	14	42	56.0						
		e _N	G	14	47	41.0						
		i _E	G	14	48	51.0						
	F		15	36								
Dec. 23	Id	iP _Z	H	00	50	00.0					See discussion, p.	
		eP _N	A	00	50	00.0						
		eP _E	A	00	50	00.5						
		eS _{EN}	A	00	50	07.5						
		iS _Z	H	00	50	07.5						
	F		00	51								
Dec. 23	I	eP _N	A	10	04	18.5						
		iP _Z	H	10	04	18.5						
		eP _E	A	10	04	19.0						
		i _Z	H	10	04	24.5						
		i _N	A	10	04	26.0						
		i _Z	H	10	04	55.0						
		F		10	06							
Dec. 24	Iv	iP _Z	H	16	26	40					See discussion, p.	
		iP _{EN}	A	16	26	40						
		eP _N	G	16	26	41						
		eP _Z	G	16	26	43						
		eP _E	G	16	26	48						
		iS _{EN}	A	16	27	10.5						

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Date	Char-acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Dec. 24 (contd)	Iv	iS _E	G 16 27 11					
		eS _N	G 16 27 13					
		eS _Z	G 16 27 13					
		F	16 32					
Dec. 30	IIv	eP _N	G 13 54 07.5					U.S.C. & G.S. epi- center 31°N 116°W
		eP _E	G 13 54 12.5					
		eP _Z	G 13 54 17.5					
		iS _N	G 13 55 32.5					
		iS _Z	G 13 55 42.5					
		iS _E	G 13 55 44.5					
		F	15 37					
Dec. 30	IIId	iP _{EN}	A 13 55 37.4					See discussion, p.
		iS _N	A 13 55 46.4					
		F	13 58					
Dec. 30	Id	iP _Z	H 14 58 04.5					See discussion, p.
		eS _{EN}	A 14 58 10.1					
		F	14 59					
Dec. 30	Id	iP _Z	H 15 04 21.5					See discussion, p.
		iS _Z	H 15 04 30.2					
		F	15 05					
Dec. 30	Id	iP _Z	H 15 12 00.1					See discussion, p.
		iZ	H 15 12 07.2					
		iS _Z	H 15 13 08.1					
		F	15 13					
Dec. 30	Id	iP _Z	H 19 04 25.9					See discussion, p.
		eS _Z	H 19 04 33.7					
		F	19 05					
Dec. 31	Id	iP _N	A 5 50 42.1					See discussion, p.
		iP _Z	H 5 50 42.1					
		eP _E	A 5 50 42.3					
		iS _{EN}	A 5 50 50.4					
		F	5 52					
Dec. 31	I	iP _Z	H 6 47 05.5					
		eP _N	A 6 47 06.0					
		iZ	H 6 47 10					
		F	6 50					

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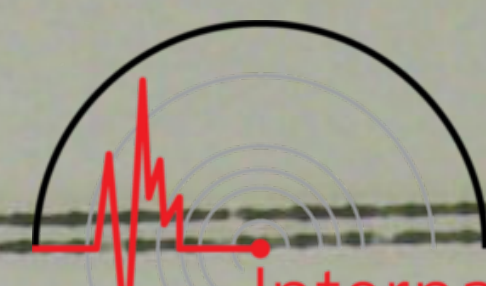
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Dec. 31	IIr	eP _N	A 18 47 49.6					U.S.C. & G.S. epi- center 30°N 116°W
		eP _Z	H 18 47 50.1					
		eP _E	A 18 47 54.8					
		iP _E	G 18 47 55					
		iP _Z	G 18 47 55					
		eS _N	A 18 49 53.6					
		eS _E	A 18 49 54.0					
		eS _E	H 18 49 55.1					
		F	22 37					
1935								
Jan. 1	IIu	iP _Z	H 13 31 59.6					U.S.C. & G.S. epi- center 17°S, 174°W
		iP _E	G 13 32 00.0					
		iP _Z	G 13 32 00.0					
		iP _E	A 13 32 00.1					
		iP _N	A 13 32 00.4					
		eS _E	A 13 41 02.1					
		iS _Z	H 13 41 02.1					
		eS _N	A 13 41 03.1					
		iS _E	G 13 41 05.0					
		iS _Z	G 13 41 07.0					
		F	15 07					
Jan. 1	I	iP _Z	H 23 02 45.0					
		eP _N	A 23 02 45.5					
		iZ	H 23 02 54.5					
		iZ	H 23 02 59.5					
		iZ	H 23 03 02.0					
		F	23 05					
Jan. 2	IIv	iP _N	G 22 41 08.0					See discussion, p.
		iP _Z	H 22 41 51.7					
		eP _N	A 22 41 52.2					
		iP _E	G 22 41 53.0					
		eP _E	A 22 41 53.7					
		iP _E	A 22 41 54.2					
		iE	A 22 42 17.7					
		iN	A 22 42 19.2					
		iN	A 22 42 31.2					
		iN	A 22 42 33.7					
		iE	A 22 42 47.7					
		F	23 47					

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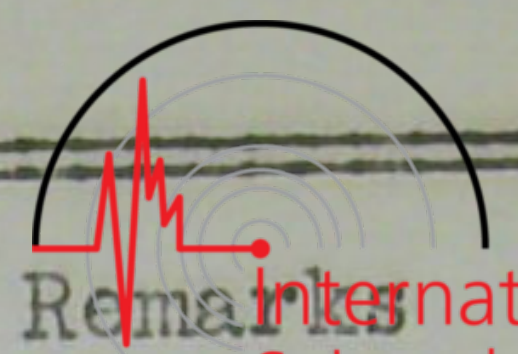
Date	Char-acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E mm.	A _N mm.	A _Z mm.	
1935			h. m. s.	s.				
Jan. 3	Id	iP _Z	H 3 35 54.0					See discussion, p.
		e _N	A 3 35 54.0					
		iS _Z	H 3 35 57.0					
		i _N	A 3 35 57.0					
		e _E F	A 3 35 57.0 3 37					
Jan. 3	Id	iP _Z	H 5 45 33.5					See discussion, p.
		e _N	A 5 45 35.0					
		e _E	A 5 45 42.0					
		i _N	A 5 45 42.0					
		iS _Z F	H 5 45 42.2 5 46					
Jan. 3	IId	iP _Z	H 17 35 44.6					See discussion, p.
		iP _N	A 17 35 44.6					
		iP _E	A 17 35 44.9					
		i _{EN}	A 17 35 45.4					
		iS _{EN}	A 17 35 53.0					
		i _N F	A 17 36 03.0 17 39					
Jan. 3	Id	eP _Z	H 17 49 33.5					See discussion, p.
		eS _Z	H 17 49 41.6					
		e _{EN} F	A 17 49 42.0 17 50					
Jan. 3	Id	eP _Z	H 18 06 48.5					See discussion, p.
		i _Z	H 18 06 53.0					
		e _{EN}	A 18 06 54.0					
		i _Z	H 18 07 01.5					
		i _N	A 18 07 01.5					
		i _E F	A 18 07 02.0 18 08					
Jan. 3	Id	iP _Z	H 18 43 07.0					See discussion, p.
		e _N	A 18 43 07.5					
		e _E	A 18 43 08.0					
		iS _Z	H 18 43 15.2					
		i _{EN} F	A 18 43 15.5 18 44					
Jan. 4	Id	eP* _N	A 11 14 54.5					See discussion, p.
		iP* _Z	H 11 14 54.5					
		iS _E	A 11 15 02.7					
		iS _N	A 11 15 02.8					
		iS _Z	H 11 15 02.8					
		i _N F	A 11 15 08.6 11 17					

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Date	Char- acter	Phase	Time U.T.			Period	Amplitude			Remarks
			h.	m.	s.		A _E mm.	A _N mm.	A _Z mm.	
1935						s.				
Jan. 5	Id	eP _Z	H	13	13	15.3				See discussion, p.
		eE	A	13	13	15.5				
		eN	A	13	13	15.5				
		iE	A	13	13	20.5				
		eS _Z	H	13	13	20.5				
		iN	A	13	13	21.0				
		F		13	14					
Jan. 5	Id	iP _Z	H	19	16	13.5				See discussion, p.
		eEN	A	19	16	16.0				
		iS _Z	H	19	16	22.0				
		iS _{EN}	A	19	16	22.5				
		F		19	17					
Jan. 5	Id	iP _Z	H	19	52	15.0				See discussion, p.
		eN	A	19	52	15.0				
		eE	A	19	52	15.5				
		iS _Z	H	19	52	23.6				
		iEN	A	19	52	23.8				
		F		19	54					
Jan. 5	Id	eZ	H	20	14	01.0				See discussion, p.
		iZ	H	20	14	07.5				
		eEN	A	20	14	07.5				
		F		20	15					
Jan. 5	Id	eP _Z	H	21	40	21.0				See discussion, p.
		eEN	A	21	40	24.0				
		iS _Z	H	21	40	29.0				
		F		21	41					
Jan. 5	I	eZ	H	23	40	46.0				
		eE	A	23	41	19.0				
		eN	A	23	41	19.5				
		eZ	H	23	41	19.0				
		iZ	H	23	41	24.0				
		F		23	42					
Jan. 6	Iv	iP _Z	H	4	05	38.5				See discussion, p.
		eN	A	4	05	39.0				
		eE	A	4	05	42.0				
		iZ	H	4	05	42.0				
		iN	A	4	05	50.5				
		iE	A	4	06	08.0				
		iN	A	4	06	09.0				

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Date	Char- acter	Phase	Time U.T.			Period	Amplitude			Remarks
			h.	m.	s.		A _E	A _N	A _Z	
1935						s.	mm.	mm.	mm.	
Jan. 6 (contd)	Iv	i _N	A	4	06	22.5				
		iS _Z	H	4	06	24.0				
		i _N	A	4	06	30.5				
		F		4	08					
Jan. 6	Iv	eP _Z	H	4	40	44.0				See discussion, p. 2
		e _N	A	4	40	47.0				
		iP _Z	H	4	40	52.0				
		e _E	A	4	40	53.0				
		i _Z	H	4	40	58.0				
		i _Z	H	4	41	17.0				
		i _N	A	4	41	21.5				
		i _N	A	4	41	26.0				
		i _Z	H	4	41	27.0				
		i _E	A	4	41	30.5				
		F		4	43					
Jan. 6	Id	iP _Z	H	11	25	08.5				See discussion, p. 2
		e _N	A	11	25	09.0				
		e _E	A	11	25	11.0				
		iS _{EN}	A	11	25	17.0				
		iS _Z	H	11	25	17.0				
		F		11	26					
Jan. 8	Iv	eP _Z	H	2	32	33.0				See discussion, p. 2
		iP _Z	H	2	32	34.5				
		e _{EN}	A	2	32	36.0				
		i _N	A	2	32	50.0				
		iS _Z	H	2	32	50.0				
		e _E	A	2	32	51.0				
		F		2	34					
Jan. 8	Iv	iP _Z	H	2	35	01.5				See discussion, p. 2
		e _E	A	2	35	02.5				
		iP _Z	H	2	35	03.0				
		i _{EN}	A	2	35	03.5				
		eP _E	G	2	35	04.0				
		i _E	A	2	35	18.0				
		iS _E	G	2	35	19.0				
		i _{EN}	A	2	35	19.5				
		F		2	37					
Jan. 8	Iv	eP _Z	H	2	56	40.0				See discussion, p. 2
		iP _Z	H	2	56	41.0				
		e _N	A	2	56	41.0				
		e _E	A	2	56	46.0				
		iS _Z	H	2	56	57.5				
		i _E	A	2	56	58.0				
		F		2	58					

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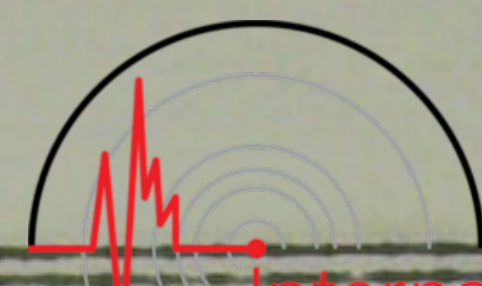
Date	Char- acter	Phase	Time U.T.			Period	Amplitude			Remarks
			h.	m.	s.		A _E mm.	A _N mm.	A _Z mm.	
1935						s.				
Jan. 8	Iv	eP _Z	H	15	50	17.5				See discussion, p.
		eE	A	15	50	18.5				
		iP _Z	H	15	50	18.5				
		iE	A	15	50	36.5				
		iS _Z	H	15	50	36.5				
		iz	H	15	50	40.5				
		F		15	52					
Jan. 15	I	iz	H	11	37	12.0				
		F		11	38					
Jan. 17	Id	iP _Z	H	00	21	48.3				See discussion, p. 2
		iS _{EZ}	H	00	21	49.0				
		F		00	22					
Jan. 17	Id	eP _E	G	2	20	56.0				
		iP _Z	H	2	20	58.0				
		eE	A	2	20	58.5				
		iz	H	2	21	07.5				
		eE	A	2	22	08.0				
		eZ	H	2	24	41.0				
		F		2	39					
Jan. 18	I	eZ	H	1	29	27.0				
		eEN	A	1	30	01.0				
		iN	A	1	30	12.5				
		iz	H	1	30	13.5				
		F		1	31					
Jan. 18	Id	iP _Z	H	9	43	52.7				See discussion, p. 2
		eN	A	9	43	54.5				
		eE	A	9	43	55.0				
		iS _Z	H	9	43	56.2				
		iS _{EN}	A	9	43	56.5				
		F		9	45					
Jan. 18	I	iP _Z	H	11	15	47.5				
		eEN	A	11	15	48.5				
		iz	H	11	16	03.0				
		F		11	18					
Jan. 19	Id	iP _Z	H	22	45	30.0				See discussion, p.
		iS _Z	H	22	45	30.7				
		eEN	A	22	45	31.5				
		F		22	46					

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Date	Char- acter	Phase	Time U.T.			Period	Amplitude			Remarks
			h.	m.	s.		A _E	A _N	A _Z	
1935						s.	mm.	mm.	mm.	
Jan. 20	I	e _Z	H	00	10	51.0				
		i _Z	H	00	11	02.0				
		e _{EN}	A	00	11	02.5				
		F		00	12					
Jan. 21	Iv	eP _Z	H	00	09	41.5				
		eP _N	A	00	09	45.0				
		eP _E	A	00	09	46.5				
		iP _Z	H	00	09	50.5				
		iS _E	A	00	10	36.0				
		eS _N	A	00	10	37.0				
		iS _Z	H	00	10	37.5				
		iS _N	A	00	10	40.5				
		F		00	13					
Jan. 21	Id	e _{P_Z}	H	5	28	50.5				See discussion, p.2
		e _E	A	5	28	53.0				
		eS _Z	H	5	28	53.0				
		e _N	A	5	28	53.5				
		F		5	29					
Jan. 21	I	i _Z	H	15	43	00				
		F		15	44					
Jan. 23	IIr	eP _Z	H	7	31	06.0				U.S.C. & G.S. epi- center 52°N 170°W
		e _N	A	7	31	07.0				
		e _E	A	7	31	09.0				
		iP _E	G	7	31	11.5				
		eP _N	G	7	31	13.5				
		iP _Z	H	7	31	14.5				
		i _Z	H	7	32	14.5				
		i _Z	H	7	33	33.0				
		iS _E	G	7	36	40.5				
		iS _N	G	7	36	40.5				
		e _E	A	7	36	41.0				
		eS _Z	H	7	37	15.0				
		e _N	A	7	39	20.0				
		e _Z	H	7	40	55.0				
		e _N	A	7	41	08.8				
		e _E	A	7	40	57.0				
		e _E	A	7	43	41.0				
		F		8	37					
Jan. 23	I	e _Z	H	8	05	21.0				
		i _Z	H	8	05	34.0				
		i _Z	H	8	07	26.0				
		F		8	08					

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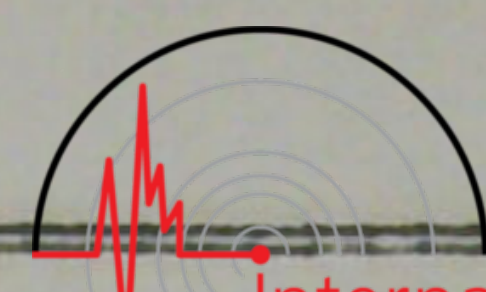
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Jan. 23	I	e _Z	H 9 59 02.0					
		i _Z	H 9 59 08.0					
		i _Z	H 9 59 17.5					
		F	10 10					
Jan. 23	I	e _{PZ}	H 13 53 50.0					
		i _{PZ}	H 13 53 56.0					
		e _E	A 13 53 58.0					
		e _N	A 13 53 59.0					
		i _N	A 13 54 29.0					
		F	13 56					
Jan. 23	Id	i _{PZ}	H 23 43 56.0					See discussion, p.
		e _{EN}	A 23 43 57.0					
		i _{SZ}	H 23 43 57.0					
		i _Z	H 23 43 59.0					
		F	23 44					
Jan. 25	Id	i _{PZ}	H 5 02 03.0					See discussion, p.
		e _N	A 5 02 06.5					
		e _E	A 5 02 07.5					
		i _{SEN}	A 5 02 10.0					
		F	5 03					
Jan. 25	Id	i _{PZ}	H 22 59 50.5					See discussion, p.
		i _{SZ}	H 22 59 52.0					
		F	23 00					
Jan. 27	Iv	e _{PZ}	H 5 25 03.0					See discussion, p.
		e _N	A 5 25 05.0					
		e _E	A 5 25 12.0					
		i _{SEN}	A 5 25 23.5					
		i _{SZ}	H 5 25 24.0					
		F	5 26					
Jan. 28	Id	e _{PZ}	H 5 25 15.0					See discussion, p.
		e _{EN}	A 5 25 17.0					
		i _Z	H 5 25 21.5					
		i _E	A 5 25 22.5					
		i _{SEN}	A 5 25 24.0					
		i _N	A 5 25 26.5					
		F	5 26					
Jan. 28	I	i _Z	H 10 01 38					
		F	10 02					

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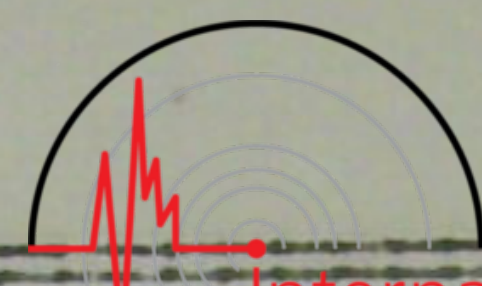
Date	Char-acter	Phase	Time			Period	Amplitude			Remarks	
			U.T.				A _E	A _N	A _Z		
1935				h.	m.	s.		mm.	mm.	mm.	
Jan. 28	Id	eP _Z	H	11	09	46.5					See discussion, p. 1
		eN	A	11	09	47.0					
		iS _Z	H	11	09	55.0					
		iN	A	11	09	55.0					
		eE	A	11	09	55.0					
		F		11	10						
Jan. 29	Id	iP _Z	H	20	41	17.0					See discussion, p. 1
		eN	A	20	41	17.0					
		eE	A	20	41	18.5					
		iS _Z	H	20	41	19.0					
		F		20	42						
Jan. 31	Iv	eP _Z	H	13	34	25.0					
		eN	A	13	34	31.0					
		eE	A	13	35	02.0					
		iS _Z	H	13	35	04.5					
		iN	A	13	35	05.5					
		iZ	H	13	35	13.5					
		F		13	37						
Feb. 2	Id	iP _Z	H	00	49	50.0					See discussion, p. 1
		iS _Z	H	00	49	51.0					
		F		00	50						
Feb. 4	Id	iP _Z	H	11	32	22.5					See discussion, p. 1
		A		11	33						
Feb. 4	Id	eZ	H	17	35	15.5					
		F		17	38						
Feb. 5	I	eZ	H	23	38	33.5					
		iZ	H	23	38	40.0					
		iZ	H	23	38	43.0					
		F		23	39						
Feb. 6	I	eZ	H	02	04	40					
		F		02	07						
Feb. 7	I	eP _Z	H	9	39	43.0					
		iP _Z	H	9	39	46.0					
		eN	A	9	39	46.0					
		eE	A	9	39	47.0					
		iN	A	9	40	32.0					
		iS _Z	H	9	40	34.0					
		iE	A	9	40	35.0					

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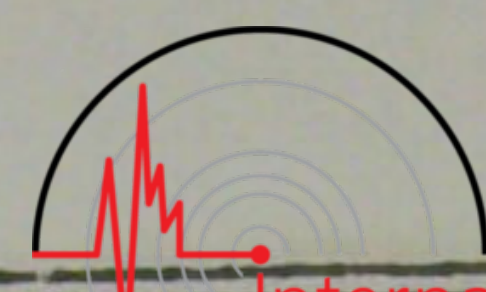
No.	Date	Char- acter	Phase	Time U.T.			Amplitude			Remarks
				h.	m.	s.	A _E	A _N	A _Z	
	1935						mm.	mm.	mm.	
56	Feb. 7 (contd)	I	iN iZ iZ F	A H H	9 40 35.5 9 40 38.5 9 40 45.0 9 42					
57	Feb. 8	I	ePZ eN eE eN eE iZ eN iZ iZ F	H A A A A H A H H	4 24 33.5 4 24 48.0 4 24 51.0 4 25 30.0 4 25 32.0 4 25 34.0 4 25 36.0 4 25 37.5 4 25 43.5 4 27					
8	Feb. 13	I	iZ iZ eZ F	H H H	17 34 05.5 17 34 07.5 17 34 33.0 17 36					
9	Feb. 14	Id	iPZ iSZ F	H H	00 44 21.5 00 44 22.5 00 45					See discussion, p.
0	Feb. 14	Id	iPZ iSZ F	H H	2 12 59.0 2 13 00.5 2 14					See discussion, p.
1	Feb. 14	I	eZ F	H	19 32 17.0 19 34					
2	Feb. 19	I	eZ F	H	20 21 58.0 20 23					
5	Feb. 20	I	eE eE F	G G	11 31 50.0 11 44 20.0 12 08					Surface waves
Feb. 20	Id		iPZ ePN ePE iSZ iSEN iN F	H A A H A A	19 31 23.8 19 31 24.0 19 31 24.5 19 31 33.0 19 31 34.0 19 31 35.0 19 33					See discussion, p.

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Feb. 22	IIu	iP _Z	H 17 14 15.0					U.S.C. & G.S. epi- center 52°N 175°E
		eE	H 17 14 16.0					
		eN	A 17 14 17.0					
		iP _E	G 17 14 28.5					
		iP _N	G 17 14 30.5					
		iE	A 17 14 54.0					
		eZ	H 17 21 04.0					
		iS _N	A 17 21 12.5					
		eN	A 17 21 19.0					
		eE	A 17 21 20.0					
		eZ	H 17 22 30.0					
		eE	A 17 24 22.0					
		eN	A 17 24 33.0					
		eZ	H 17 27 27.0					
		eE F	A 17 35 05.0 21 08					
Feb. 24	Id	eP _Z	H 1 09 18.0					See discussion, p. 2
		iZ	H 1 09 19.0					
		eN	A 1 09 19.5					
		iS _Z	A 1 09 24.5					
		eN	A 1 09 25.5					
		eE	A 1 09 26.0					
		iZ F	H 1 09 27.0 1 10					
Feb. 24	Ir	eP _Z	H 1 47 04.0					
		eE	A 1 47 08.0					
		eN	A 1 47 11.0					
		eN	G 1 48 22.0					
		eE	G 1 48 54.0					
		eN	A 1 49 02.0					
		iN	G 1 49 18.0					
		iE	G 1 49 26.0					
		eE	A 1 49 27.0					
		iS _Z	H 1 49 36.5					
		eN	A 1 49 37.0					
		eE F	A 1 49 46.0 1 58					
Feb. 28	I	eP _Z	H 7 22 17.0					
		F	7 23					
Feb. 28	Iv	eP _Z	H 10 23 05.0					See discussion, p. 2
		iP _Z	H 10 23 07.0					
		F	10 24					

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Date	Char- acter	Phase	Time U.T.			Period	Amplitude			Remarks
			h.	m.	s.		A _E mm.	A _N mm.	A _Z mm.	
1935						s.				
Feb. 28	Iv	ePz	H	19	07	15.0				See discussion, p. 2
		eE	A	19	07	19.0				
		iPz	H	19	07	19.0				
		iz	H	19	07	43.0				
		iE	A	19	07	44.5				
		iz	H	19	07	47.5				
		F		19	09					
Mar. 2	I	ePz	H	18	21	20.0				
		iPz	H	18	21	21.0				
		F		18	22					
Mar. 3	Iv	eZ	H	5	50	06.0				
		eE	A	5	50	09.0				
		eN	A	5	50	11.0				
		iEN	A	5	50	38.0				
		iSz	H	5	50	39.0				
		F		5	52					
Mar. 3	Iv	ePz	H	10	19	40.5				See discussion, p. 2
		eE	A	10	19	45.0				
		eN	A	10	19	46.0				
		iz	H	10	20	11.0				
		iEN	A	10	20	14.0				
		iz	H	10	20	14.0				
		iz	H	10	20	16.0				
		F		10	22					
Mar. 3	Iv	ePz	H	11	26	55.0				See discussion, p. 2
		eEN	A	11	27	00.0				
		iPz	H	11	27	00.0				
		iN	A	11	27	18.5				
		iE	A	11	27	23.0				
		iN	A	11	27	27.0				
		F		11	28					
Mar. 6	Iv	ePz	H	4	52	03.5				See discussion, p. 2
		eE	A	4	52	08.0				
		iSE	A	4	52	26.0				
		iz	H	4	52	27.0				
		iz	H	4	52	32.0				
		F		4	54					
Mar. 11	Id	iPz	H	11	10	00.8				See discussion, p. 2
		eEN	A	11	10	03.0				
		iEN	A	11	10	04.0				
		iSz	H	11	10	04.3				
		iz	H	11	10	06.5				
		F		11	12					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					AE	AN	AZ	
1935			h. m. s.	s.	mm.	mm.	mm.	
Mar. 12	Id	iP _Z eE iE iZ F	H 10 17 53.5 A 10 17 56.0 A 10 18 01.0 H 10 18 01.5 10 19					See discussion, p.
Mar. 14	Id	iP _Z iS _Z F	H 23 04 31.1 H 23 04 32.3 23 05					See discussion, p.
Mar. 19	Id	iP _Z iS _E F	H 00 02 37.6 A 00 02 39.2 00 03					See discussion, p.
Mar. 22	Id	iP _Z F	H 1 30 [±] 1 31					See discussion, p. S-P = 1.7 sec.
Mar. 23	Iv	eP _Z eE eN iEN iS _Z F	H 8 26 10.0 A 8 26 11.5 A 8 26 12.5 A 8 26 28.5 H 8 26 29.0 8 28					See discussion, p.
Mar. 26	I	eE F	A 21 39 33.0 21 41					
Mar. 28	I	iZ eE eN F	H 23 55 56.5 A 23 55 57.0 A 23 55 58.0 23 58					
Mar. 29	Iu	iP _E eN eZ eZ iS _E eN eE F	G 12 37 10.0 G 12 37 30.0 G 12 39 00.0 G 12 47 00.0 G 12 47 18.0 G 12 47 25.0 G 13 00 05.0 14 15					
Mar. 30	Id	iP _Z eP _{EN} iS _E eS _N F	H 9 28 19.4 A 9 28 19.5 A 9 28 24.2 A 9 28 24.3 9 29					See discussion, p.



MOUNT HAMILTON

THE LICK OBSERVATORY STATION, UNIVERSITY OF CALIFORNIA
MOUNT HAMILTON, CALIFORNIA

 CONSTANTS

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Latitude and longitude of the center of the seismographic room:

$\phi = 37^{\circ} 20' 24.5''$ N Lat.

$\lambda = 121^{\circ} 38' 34''$ W from Greenwich.

Time.--All determinations are reduced to Universal Time.

Altitude.--1281.7 meters (4205 feet) above mean sea level.

CONSTANTS OF THE SEISMOGRAPHS

Apparatus	Component	V	T_0	ϵ
Wood-Anderson	E	3000	1	15
	N	3000	1	15

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 1	Iv	iP _E	00 53 18.0					See discussion, p.
		iP _N	00 53 18.2					
		iN	00 53 27.0					
		eN	00 53 33.0					
		iS _E	00 53 35.0					
		iN	00 53 37.0					
		iN	00 53 40.8					
		iE F	00 53 41.7 00 55					
Oct. 1	Id	iP _{EN}	03 40 34.7					See discussion, p. $\overline{S-P} = 2.2$ sec.
		F	03 41					
Oct. 1	Id	iP _E	17 11 51.0					See discussion, p. $\overline{S-P} = 1.2$ sec.
		eP _N	17 11 51.0					
		F	17 12					
Oct. 1	I	eE	18 24 35					
		eN	18 24 37					
		iS _E	18 25 06					
		iS _N	18 25 08					
		F	18 26					
Oct. 2	IIId	iP _{EN}	20 20 52.6					See discussion, p.
		iS _{EN}	20 21 03.5					
		F	20 25					
Oct. 2	IIId	iP _{EN}	20 30 57.4					See discussion, p.
		iS _{EN}	20 31 07.9					
		F	20 34					
Oct. 2	Id	eP _E	22 08 21.8					See discussion, p.
		eP _N	22 08 22.1					
		iS _E	22 08 33.6					
		iS _N	22 08 33.9					
		F	22 10					
Oct. 2	Id	eP _{EN}	22 14 22.6					See discussion, p.
		eS _{EN}	22 14 33.9					
		F	22 16					
Oct. 3	Id	eP _N	03 25 20.2					See discussion, p.
		eP _E	03 25 20.5					
		iS _N	03 25 21.9					
		iS _E	03 25 22.0					
		F	03 26					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 3	Id	i $\overline{P}$ _E	06 17 40.6					See discussion, p.
		e $\overline{P}$ _N	06 17 40.7					
		e $\overline{S}$ _N	06 17 51.1					
		e $\overline{S}$ _E	06 17 51.6					
		F	06 19					
Oct. 3	Id	e $\overline{P}$ _N	20 23 44.0					See discussion, p.
		e $\overline{P}$ _E	20 23 44.5					
		i $\overline{S}$ _N	20 23 55.5					
		e $\overline{S}$ _E	20 23 55.5					
		F	20 26					
Oct. 5	Id	e $\overline{P}$ _E	03 48 10.0					See discussion, p.
		e $\overline{P}$ _N	03 48 11.0					
		e $\overline{S}$ _E	03 48 22.0					
		e $\overline{S}$ _N	03 48 23.0					
		F	03 50					
Oct. 6	Id	i $\overline{S}$ * _E	02 17 33.2					See discussion, p.
		i $\overline{S}$ * _N	02 17 33.5					
		i $\overline{S}$ _E	02 17 34.5					
		i $\overline{S}$ _N	02 17 35.0					
		i $\overline{N}$	02 17 46.5					
		i $\overline{E}$	02 17 47.0					
		i $\overline{E}$ F	02 17 49.5 02 19					
Oct. 6	Id	i $\overline{P}$ _E	20 30 41.9					See discussion, p.
		i $\overline{P}$ _N	20 30 42.2					
		i $\overline{S}$ _{EN}	20 30 52.5					
		F	20 33					
Oct. 7	Id	e $\overline{P}$ _E	02 47 15.0					See discussion, p.
		e $\overline{P}$ _N	02 47 15.5					
		e $\overline{S}$ _E	02 47 26.0					
		e $\overline{S}$ _N	02 47 26.5					
		i $\overline{S}$ _N	02 47 27.5					
		i $\overline{N}$ F	02 47 30.7 02 48					
Oct. 8	Id	i $\overline{P}$ _E	08 42 15.2					See discussion, p.
		i $\overline{P}$ _N	08 42 15.7					
		i $\overline{S}$ _E	08 42 26.1					
		e $\overline{S}$ _N	08 42 26.1					
		F	08 44					

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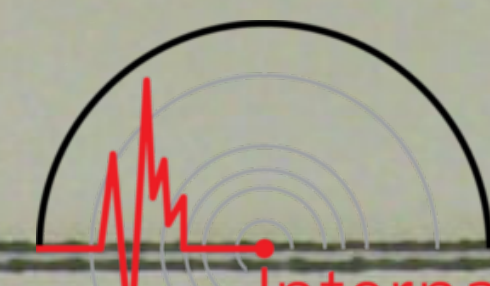
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 10	Iu	iP _{EN}	15 53 35.0					U.S.C. & G.S. epi- center 23°S 176°W
		eS _N	16 03 06.0					
		eS _E	16 03 08.0					
		F	16 36					
Oct. 12	Id	iP _{EN}	01 53 04.2					See discussion, p.
		iS _{EN}	01 53 07.2					
		iE	01 53 13.4					
		iN	01 53 13.7					
		eN	01 53 18.7					
		iE	01 53 21.2					
		F	01 55					
Oct. 13	Iv	eP _N	03 55 53.0					See discussion, p.
		eP _E	03 55 54.5					
		eE	03 55 55.7					
		iN	03 55 57.0					
		iN	03 56 07.0					
		eE	03 56 07.0					
		eS _E	03 56 28.0					
		iS _N	03 56 29.0					
Oct. 13	Id	F	03 58					See discussion, p.
		iP _{EN}	09 07 15.3					
		eS _E	09 07 26.2					
		eS _N	09 07 26.7					
Oct. 13	Id	F	09 08					See discussion, p.
		iP _{EN}	10 17 16.8					
		iS _{EN}	10 17 28.0					
		F	10 18					
Oct. 13	Id	iP _{EN}	15 08 56.5					See discussion, p.
		iS _N	15 09 07.5					
		iS _E	15 09 07.7					
		F	15 10					
Oct. 16	Id	eP _N	19 32 58.2					See discussion, p.
		eP _E	19 32 58.5					
		eS _N	19 33 09.2					
		eS _E	19 33 09.6					
		F	19 34					
Oct. 16		eE _N	23 13 29.8					
		eE _N	23 14 13.8					
		F	23 17					

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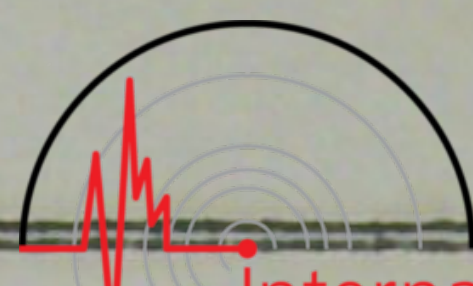
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 21	I	e _N	18 05 35.5					
		e _E	18 05 36.5					
		e _E	18 06 27.5					
		e _N	18 06 28.0					
		F	18 09					
Oct. 22	Id	e _E	04 54 38.5					See discussion, p.
		e _N	04 54 39.5					
		i _{SEN}	04 54 41.0					
		F	04 55					
Oct. 23	Id	e _P _E	21 09 45.5					See discussion, p.
		e _P _N	21 09 45.8					
		e _E	21 09 46.6					
		i _E	21 09 54.7					
		e _{SE}	21 09 55.8					
		e _{SN}	21 09 56.3					
		F	21 10					
Oct. 25	IIId	i _P * _{EN}	03 20 35.5					See discussion, p.
		i _{SN}	03 20 46.5					
		i _{SE}	03 20 46.7					
		F	03 23					
Oct. 26	I	e _E	17 23 40.7					
		e _N	17 23 44.7					
		F	17 25					
Oct. 26	Id	e _P _{EN}	23 56 01.6					See discussion, p.
		i _{SEN}	23 56 04.8					
		F	23 57					
Oct. 28	Id	e _P * _{EN}	06 39 02.0					See discussion, p.
		i _S * _{NE}	06 39 14.3					
		F	06 41					
Oct. 28	I	e _P _N	22 06 40.0					
		e _P _E	22 06 40.5					
		F	22 10					
Oct. 29	I	e _E	02 38 21.7					
		e _N	02 38 31.7					
		e _{EN}	02 42 06.7					
		F	02 59					

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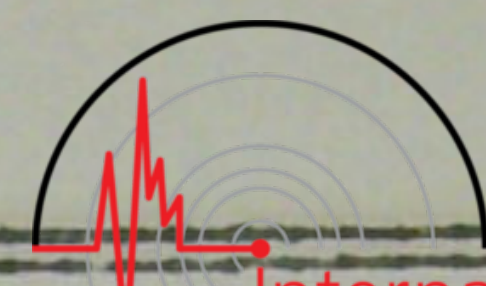
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Nov. 4	I	eE	02 06 34.0					
		eN	02 06 37.0					
		eN	02 07 45.0					
		eE	02 07 46.0					
		F	02 08					
Nov. 4	I	eN	03 27 01.0					
		eE	03 27 02.0					
		eEN	03 27 33.0					
		F	03 29					
Nov. 4	Id	iP _{EN}	22 13 45.3					See discussion, p.2
		iN	22 13 51.8					
		iE	22 13 52.8					
		iS _{EN}	22 13 57.8					
		F	22 15					
Nov. 4	Id	eP _{EN}	23 34 58.2					See discussion, p.
		eS*N	23 35 04.4					
		eS _E	23 35 05.5					
		F	23 36					
Nov. 5	I	eE	23 10 01.5					
		eP _N	23 10 02.5					
		eE	23 11 07.5					
		eN	23 11 17.5					
		F	23 38					
Nov. 5	Id	eP _E	23 34 31.0					See discussion, p.
		eP _N	23 34 31.5					
		iS _{EN}	23 34 36.4					
		F	23 36					
Nov. 8	Id	iP _{EN}	13 48 29.9					See discussion, p.
		iS _N	13 48 36.0					
		iS _E	13 48 36.9					
		F	13 51					
Nov. 9	Id	iP _N	00 47 03.0					See discussion, p.
		iP _E	00 47 03.2					
		eS _N	00 47 05.5					
		iS _E	00 47 05.5					
		F	00 49					
Nov. 9	Id	iP _N	01 07 04.0					See discussion, p.
		iP _E	01 07 04.3					
		eS _N	01 07 06.5					
		iS _E	01 07 06.5					
		F	01 09					

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Date	Char- acter	Phase	Time U.T. h. m. s.	Period s.	Amplitude			Remarks
					AE mm.	AN mm.	AZ mm.	
1934								
Nov. 12	Id	i $\overline{S}$ N	06 14 01.5					See discussion, p.
		i $\overline{S}$ N	06 14 03.0					
		i $\overline{S}$ E	06 14 03.2					
		e $\overline{P}$ N	06 13 56.8					
		i $\overline{P}$ E	06 13 56.8					
		F	06 17					
Nov. 12	Id	e $\overline{P}$ EN	06 25 29.5					See discussion, p.
		i $\overline{S}$ *N	06 25 35.5					
		i $\overline{S}$ E	06 25 36.5					
		i $\overline{S}$ N	06 25 37.2					
		F	06 27					
Nov. 13	Id	e $\overline{P}$ EN	05 05 01.5					See discussion, p.
		i $\overline{S}$ N	05 05 03.5					
		e $\overline{S}$ E	05 05 03.5					
		F	05 07					
Nov. 13	Id	e $\overline{P}$ E	07 29 02.6					See discussion, p.
		e $\overline{P}$ N	07 29 02.9					
		e $\overline{S}$ E	07 29 03.9					
		i $\overline{S}$ N	07 29 04.7					
		F	07 30					
Nov. 16	Iv	e $\overline{P}$ EN	05 37 35.8					See discussion, p.
		e $\overline{S}$ E	05 38 26.3					
		e $\overline{N}$	05 38 29.3					
		F	05 46					
Nov. 17	Iv	i $\overline{P}$ N	17 42 46.6					See discussion, p.
		e $\overline{P}$ E	17 42 46.8					
		i $\overline{S}$ EN	17 43 28.3					
		F	17 48					
Nov. 18	Id	e $\overline{P}$ EN	16 54 06.9					See discussion, p.
		i $\overline{S}$ EN	16 54 08.4					
		F	16 55					
Nov. 25	I	e $\overline{N}$	08 20 20.8					
		e $\overline{E}$	08 20 23.8					
		F	08 25					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Nov. 30	IIr	iP _N	02 10 24.7					U.S.C. & G.S. epi- center 20°N 104°W
		eP _E	02 10 24.9					
		eS _E	02 14 45.2					
		eS _N	02 14 52.7					
		eL _N	02 16 42.2					
		eL _E	02 16 50.2					
		eM _E	02 18 59.2					
		F	03 27					
Nov. 30	I	eEN	19 32 07.3					
		eN	19 32 42.0					
		eE	19 32 46.8					
		F	19 34					
Dec. 1	Id	iP _N	13 05 13.9					See discussion, p.
		eP _E	13 05 13.9					
		eS _N	13 05 27.6					
		iS _E	13 05 27.6					
		F	13 07					
Dec. 2	Iv	eP _N	16 07 39.5					See discussion, p.
		eP _{EN}	16 07 42.5					
		iS _E	16 08 00.5					
		eS _{EN}	16 08 08.2					
		F	16 11					
Dec. 3	Iv	eP _{EN}	01 54 55.1					See discussion, p.
		iS _N	01 55 16.6					
		F	02 01					
Dec. 3	I	eEN	02 45 38.0					U.S.C. & G.S. epi- center 15°N 89°W
		F	02 51					
Dec. 4	Id	iP _{EN}	04 26 40.3					See discussion, p.
		iS _{EN}	04 26 51.8					
		F	04 28					
Dec. 4	Iv	eP _{EN}	06 18 42.8					
		iS _E	06 19 16.6					
		eS _N	06 19 17.1					
		F	06 23					
Dec. 4	I	eP _{EN}	17 36 12.1					U.S.C. & G.S. epi- center 19°S 70°W
		eS _N	17 45 45.1					
		eS _E	17 45 48.1					
		F	17 55					

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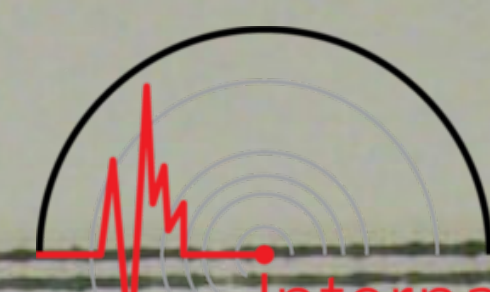
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Dec. 4	Id	e $\overline{P}$ _{EN}	17 59 37.1					See discussion, p.
		e $\overline{S}$ _E	17 59 37.6					
		i $\overline{S}$ _N	17 59 37.6					
		F	18 00					
Dec. 4	Id	e $\overline{P}$ _{EN}	18 01 23.3					See discussion, p.
		i $\overline{S}$ _{EN}	18 01 24.3					
		F	18 02					
Dec. 6	Id	i $\overline{P}$ _{EN}	17 37 16.0					See discussion, p.
		i $\overline{S}$ _E	17 37 18.8					
		i $\overline{S}$ _N	17 37 19.1					
		F	17 38					
Dec. 8	I	e $\overline{E}$ _N	09 40 46.0					
		F	09 44					
Dec. 9	I	e $\overline{E}$	00 14 21.5					
		e $\overline{N}$	00 14 22.5					
		e $\overline{E}$	00 15 12.0					
		e $\overline{N}$	00 15 12.2					
		F	00 17					
Dec. 13	Id	i $\overline{P}$ _E	02 29 48.6					See discussion, p.
		i $\overline{P}$ _N	02 29 48.8					
		i $\overline{S}$ _E	02 29 59.8					
		i $\overline{S}$ _N	02 30 00.4					
		F	02 32					
Dec. 15	Iv	i $\overline{P}$ _N	16 11 04.3					See discussion, p.
		e $\overline{P}$ _E	16 11 04.3					
		i $\overline{S}$ _{EN}	16 11 16.8					
		F	16 13					
Dec. 15	Iv	i $\overline{E}$	17 01 01.2					See discussion, p.
		i $\overline{N}$	17 01 01.7					
		F	17 17					
Dec. 15	I	i $\overline{P}$ _E	19 25 55.5					
		i $\overline{P}$ _N	19 25 55.7					
		F	19 39					
Dec. 17	I	i $\overline{P}$ _E	11 10 47.0					
		e $\overline{E}$	11 10 57.5					
		F	11 20					

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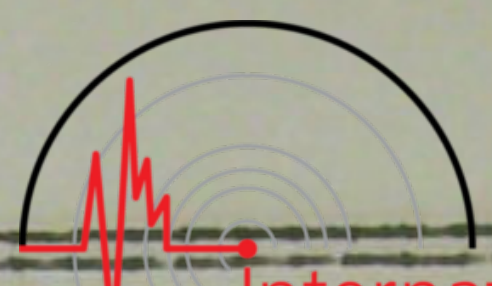
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Dec. 18	I	eP _{EN}	03 10 00.8					
		e _{EN}	03 10 15.3					
		F	03 15					
Dec. 19	Id	iP _{EN}	20 45 03.5					See discussion, p.
		eS _N	20 45 05.0					
		eS _E	20 45 05.2					
		F	20 46					
Dec. 21	Id	eP _{EN}	13 04 35.7					See discussion, p.
		eS _{EN}	13 04 42.7					
		F	13 06					
Dec. 22	Id	iP _{EN}	01 08 45.7					See discussion, p.
		eS _E	01 08 49.2					
		eS _N	01 08 50.2					
		F	01 11					
Dec. 22	I	eE	14 37 16.8					
		eP _N	14 37 17.8					
		eS _N	14 37 32.3					
		F	14 42					
Dec. 23	Id	eP _E	00 50 00.0					See discussion, p.
		eP _N	00 50 00.2					
		iS _{EN}	00 50 07.2					
		F	00 53					
Dec. 23	Iu	eP _E	10 04 15.5					
		iP _N	10 04 15.5					
		eS _N	10 14 56.0					
		eS _E	10 14 57.0					
		F	10 44					
Dec. 24	I	iP _N	16 26 31.2					
		iP _E	16 26 31.4					
		iE	16 26 38.3					
		eN	16 26 38.4					
		iE	16 26 50.4					
		F	16 33					
Dec. 30	IIv	eP _N	13 54 00.4					
		eP _E	13 54 00.9					
		i N	13 54 40.4					
		iS _E	13 55 32.9					
		iS _N	13 55 33.5					
		F	14 54					

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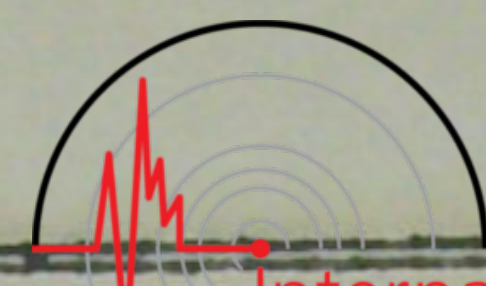
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Dec. 30	IId	iP _{EN} F	13 55 33.5 13 58					See discussion, p.
Dec. 30	Id	eP _{EN} iS _{EN} F	14 58 04.9 14 58 10.4 14 59					See discussion, p.
Dec. 30	Id	eP _{EN} iS _N eS _E F	15 04 18.2 15 04 23.9 15 04 23.9 15 05					See discussion, p.
Dec. 30	Id	eP _E eP _N e _{EN} iS _{EN} F	15 11 55.8 15 11 56.1 15 11 58.3 15 12 02.1 15 13					See discussion, p.
Dec. 30	Id	eP _E eP _N iS _{EN} F	19 04 21.3 19 04 21.8 19 04 27.1 19 05					See discussion, p.
1935								
Jan. 1	Iu	iP _N iP _E i _N e _E e _N e _N eS _E eS _N F	13 31 01.1 13 32 01.5 13 32 07.1 13 32 09.6 13 32 11.1 13 32 23.1 13 41 04.6 13 41 05.6 14 14					U.S.C. & G.S. epi- center 17°S, 174°W
Jan. 2	I	eP _{EN} e _N e _N i _E i _E i _E e _N i _E e _E F	22 42 02.1 22 42 04.1 22 42 05.1 22 42 05.1 22 42 08.4 22 42 13.1 22 42 23.6 22 42 25.1 22 42 45.6 23 37					See discussion, p.

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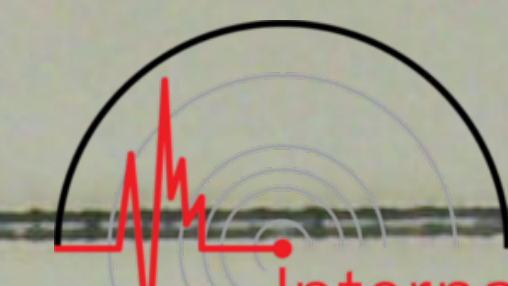
Date	Char- acter	Phase	Time U.T. h. m. s.	Period s.	Amplitude			Remarks
					A _E mm.	A _N mm.	A _Z mm.	
1935								
Jan. 3	Id	e $\overline{P}$ _E e $\overline{P}$ _N i $\overline{S}$ _E i $\overline{S}$ _N F	05 45 29.4 05 45 30.2 05 45 35.2 05 45 35.7 05 47					See discussion, p.
Jan. 3	Id	i $\overline{P}$ _{EN} i $\overline{E}$ _N i $\overline{S}$ _N F	17 35 40.8 17 35 41.4 17 35 46.1 17 39 $\pm$					See discussion, p.
Jan. 3	Id	e $\overline{P}$ _N e $\overline{P}$ _E e $\overline{S}$ _{EN} F	17 46 48.8 17 46 49.3 17 46 55.3 17 48					See discussion, p.
Jan. 3	Id	e $\overline{P}$ _{EN} i $\overline{S}$ _E e $\overline{S}$ _N F	17 49 30.3 17 49 35.0 17 49 35.3 17 50					See discussion, p.
Jan. 3	Id	e $\overline{P}$ _E e $\overline{P}$ _N i $\overline{S}$ _E i $\overline{E}$ _N F	18 06 45.8 18 06 46.3 18 06 55.3 18 07 00.1 18 08					See discussion, p.
Jan. 3	Id	e $\overline{P}$ _E e $\overline{P}$ _N i $\overline{S}$ _{EN} F	18 43 02.8 18 43 03.0 18 43 08.5 18 45 $\pm$					See discussion, p.
Jan. 4	Iv	e $\overline{P}$ _E e $\overline{P}$ _N i $\overline{S}$ _E e $\overline{N}$ F	11 15 08.1 11 15 08.9 11 15 24.6 11 15 27.7 11 17					See discussion, p.
Jan. 5	Id	i $\overline{P}$ _E i $\overline{S}$ _E F	13 13 16.1 13 13 22.3 13 15					See discussion, p.
Jan. 5	Id	i $\overline{P}$ _E i $\overline{S}$ _E F	19 16 09.5 19 16 15.3 19 17					See discussion, p.

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Jan. 5	I	$\bar{i}P_E$	19 52 11.5					See discussion, p.
		$\bar{i}S_E$	19 52 17.0					
		F	19 53					
Jan. 6	Iv	eP_{EN}	04 05 28.7					See discussion, p.
		iE	04 05 56.7					
		iN	04 05 57.7					
		F	04 11					
Jan. 6	I	iN	04 40 36.7					See discussion, p.
		eE	04 40 37.7					
		eN	04 40 46.7					
		eE	04 40 47.3					
		eN	04 40 55.7					
		iE	04 41 03.7					
		eN	04 41 05.7					
		eE F	04 41 10.2 04 44					
Jan. 6	Id	$\bar{i}P_{EN}$	11 25 05.1					See discussion, p.
		$\bar{i}S_{EN}$	11 25 10.7					
		F	11 27					
Jan. 7	I	eN	00 12 23.2					
		eE	00 12 25.2					
		eN	00 12 39.7					
		eE	00 12 49.2					
		eN	00 12 49.7					
		eE	00 12 56.7					
		eN F	00 12 59.2 00 14					
Jan. 8	Id	$\bar{i}P_N$	02 32 22.3					See discussion, p.
		$\bar{i}P_E$	02 32 22.5					
		$\bar{i}S_N$	02 32 28.3					
		$\bar{i}S_E$	02 32 28.6					
		F	02 35					
Jan. 8	Id	$\bar{i}P_N$	02 34 51.0					See discussion, p.
		eP_E	02 34 51.1					
		$\bar{i}S_{EN}$	02 34 57.5					
		F	02 40					
Jan. 8	Id	$\bar{e}P_E$	02 56 28.8					See discussion, p.
		$\bar{i}P_N$	02 56 28.8					
		$\bar{e}S_N$	02 56 36.3					
		$\bar{i}S_N$	02 56 36.6					
		F	02 58					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Jan. 8	Id	i $\overline{P}_N$	05 30 34.9					See discussion, p.
		e $\overline{P}_E$	05 30 35.2					
		e $\overline{S}_E$	05 30 41.3					
		e $\overline{S}_N$	05 30 41.9					
		F	05 32					
Jan. 8	Id	i $\overline{P}_N$	15 50 06.0					See discussion, p.
		e $\overline{P}_E$	15 50 06.1					
		i $\overline{S}_N$	15 50 12.0					
		i $\overline{S}_E$	15 50 13.1					
		F	15 52					
Jan. 10	Id	e $\overline{P}_N$	09 32 40.2					See discussion, p.
		e $\overline{P}_E$	09 32 42.2					
		e $\overline{S}_E$	09 32 48.0					
		i $\overline{S}_N$	09 32 48.3					
		e $\overline{E}$	09 32 49.9					
		F	09 34					
Jan. 10	Id	i $\overline{P}_N$	10 14 23.9					See discussion, p.
		e $\overline{P}_E$	10 14 24.2					
		i $\overline{S}_N$	10 14 25.4					
		e $\overline{S}_E$	10 14 25.7					
		F	10 16					
Jan. 10	Id	e $\overline{P}_N$	10 30 23.7					See discussion, p.
		e $\overline{E}$	10 30 25.2					
		i $\overline{S}_N$	10 30 25.5					
		F	10 31					
Jan. 10	Id	e $\overline{P}_N$	11 07 26.7					See discussion, p.
		e $\overline{E}$	11 07 28.2					
		i $\overline{S}_N$	11 07 28.5					
		F	11 09					
Jan. 16	Id	e $\overline{P}_E$	10 03 58.2					See discussion, p.
		e $\overline{S}_E$	10 04 02.5					
		F	10 05					
Jan. 21	Iv	e $\overline{P}_N$	00 09 38.1					
		e $\overline{S}_N$	00 10 29.1					
		F	00 14					
Jan. 23	Id	i $\overline{P}_N$	03 21 47.9					See discussion, p.
		e $\overline{P}_E$	03 21 48.4					
		e $\overline{S}_E$	03 21 54.9					
		i $\overline{S}_N$	03 21 54.9					
		F	03 23					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Jan. 23	Ir	eP _N	07 31 06.4					U.S.C. & G.S. epi- center 32°N 170°W
		eP _E	07 31 07.4					
		eS _E	07 36 51.4					
		eS _N	07 36 52.4					
		F	09 59					
Jan. 23	I	eP _{EN}	13 53 40.4					
		e _E	13 53 43.4					
		e _N	13 53 53.4					
		e _N	13 54 26.9					
		F	13 57					
Jan. 25	Id	eP _N	05 02 06.7					See discussion, p.2
		eP _E	05 02 07.2					
		eS _E	05 02 15.7					
		eS _N	05 02 16.2					
		F	05 04					
Jan. 27	Id	eP _E	05 24 50.0					See discussion, p.2
		iP _N	05 24 50.4					
		eS _E	05 25 00.0					
		iS _N	05 25 00.2					
		F	05 27					
Jan. 28	Id	eP _{EN}	05 25 11.6					See discussion, p.2
		iS _{EN}	05 25 17.7					
		F	05 27					
Jan. 28	Id	eP _{EN}	11 09 42.4					See discussion, p.2
		iS _{EN}	11 09 47.7					
		F	11 11					
Jan. 31	Iv	eP _N	13 34 18.7					
		eS _N	13 34 53.2					
		F	13 36					
Feb. 2	Iv	eP _N	13 30 17.0					See discussion, p.2
		iS _N	13 30 35.0					
		F	13 33					
Feb. 3	Id	e _E	14 13 22.4					See discussion, p.2
		e _N	14 13 22.9					
		iS _E	14 13 26.1					
		iS _N	14 13 26.3					
		F	14 14					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Feb. 4	Id	e $\overline{P}_E$	03 43 03.3					See discussion, p.
		e $\overline{P}_N$	03 43 03.8					
		i $\overline{S}_N$	03 43 16.8					
		i $\overline{S}_E$	03 43 17.0					
		F	03 44					
Feb. 5	I	e $\overline{P}_{EN}$	01 08 12.3					See discussion, p.
		e $\overline{S}_{EN}$	01 08 14.4					
		F	01 09 $\pm$					
Feb. 7	I	e $\overline{E}$	09 39 41.9					
		e $\overline{N}$	09 39 42.2					
		i $\overline{N}$	09 39 44.7					
		i $\overline{N}$	09 40 25.7					
		e $\overline{E}_F$	09 40 26.7					
		F	09 42					
Feb. 8	Iv	e $\overline{P}_E$	04 24 24.1					
		e $\overline{P}_N$	04 24 24.3					
		e $\overline{S}_{EN}$	04 25 13.2					
		F	04 27					
Feb. 8	Iv	i $\overline{P}_N$	23 59 03.1					See discussion, p.
		i $\overline{S}_N$	23 59 03.1					
		e $\overline{P}_E$	23 59 03.4					
		i $\overline{S}_E$	23 59 15.3					
		F	00 00					
Feb. 11	Id	e $\overline{P}_{EN}$	04 43 29.7					See discussion, p.
		i $\overline{S}_{EN}$	04 43 31.0					
		F	04 44					
Feb. 15	Id	i $\overline{P}_{EN}$	11 00 31.3					See discussion, p.
		i $\overline{S}_{EN}$	11 00 32.7					
		F	08 04					
Feb. 17	Id	e $\overline{P}_N$	08 03 37.6					See discussion, p.
		i $\overline{S}_N$	08 03 39.1					
		F	08 04					
Feb. 18	I	e $\overline{P}_N$	04 02 46.9					See discussion, p.
		e $\overline{P}_E$	04 02 47.8					
		e $\overline{E}$	04 02 59.8					
		e $\overline{N}$	04 03 05.0					
		e $\overline{E}_F$	04 03 07.3					
		F	04 05					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Feb. 19	Id	e $\overline{P}$ _{EN}	06 04 51.2					See discussion, p.
		i $\overline{S}$ _{EN}	06 04 52.7					
		F	06 05					
Feb. 19	I	e _N	14 17 35.0					See discussion, p.
		e _E	14 17 36.0					
		e _N	14 17 53.0					
		e _E	14 17 53.5					
		i _N	14 17 56.0					
		e _E	14 17 57.0					
		F	14 19					
Feb. 20	Id	i $\overline{P}$ _{EN}	19 31 11.0					See discussion, p. 2
		F	19 33 $\pm$					
Feb. 21	Id	e $\overline{P}$ _E	11 51 38.8					See discussion, p. 2
		e $\overline{P}$ _N	11 51 39.0					
		i $\overline{S}$ _E	11 51 42.1					
		i $\overline{S}$ _N	11 51 42.3					
		F	11 52					
Feb. 22	Id	e $\overline{P}$ _{EN}	09 51 23.3					See discussion, p. 2
		e $\overline{S}$ _{EN}	09 51 26.3					
		F	09 52					
Feb. 22	IIu	e $\overline{P}$ _{EN}	17 14 20.4					U.S.C. & G.S. epi- center 52°N 175°E
		e _N	17 15 57.4					
		e _N	17 16 01.4					
		e $\overline{S}$ _N	17 20 53.4					
		e _N	17 25 13.4					
		F	09 00					
Feb. 24	I	e $\overline{P}$ _{EN}	01 46 59.8					
		e _N	01 47 20.8					
		e $\overline{E}$ _N	01 48 28.8					
		i $\overline{E}$ _N	01 49 10.8					
		F	02 04					
Feb. 28	I	i _N	07 22 15.0					
		e _E	07 22 15.3					
		i _N	07 22 23.5					
		e _E	07 22 25.3					
		e $\overline{E}$ _F	07 22 47.3					
		F	07 24					

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Date	Character	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Feb. 28	Id	i $\overline{P}$ N	10 22 54.3					See discussion, p.
		i $\overline{S}$ EN	10 23 03.2					
		iN	10 23 05.2					
		iN	10 23 09.2					
		F	10 24					
Feb. 28	Id	e $\overline{P}$ EN	11 43 36.6					See discussion, p.
		e $\overline{S}$ N	11 43 45.2					
		i $\overline{S}$ E	11 43 45.4					
		F	11 44					
Feb. 28	Iv	e $\overline{P}$ N	19 07 07.1					See discussion, p.
		e $\overline{P}$ E	19 07 07.5					
		iN	19 07 22.6					
		e $\overline{E}$	19 07 22.8					
		i $\overline{S}$ N	19 07 26.6					
		e $\overline{S}$ E	19 07 26.6					
		F	19 09					
Mar. 2	Id	e $\overline{P}$ N	02 58 03.5					See discussion, p.
		e $\overline{P}$ E	02 58 04.5					
		e $\overline{S}$ EN	02 58 18.2					
		F	02 59					
Mar. 2	Id	e $\overline{P}$ EN	15 29 29.2					See discussion, p.
		e $\overline{S}$ N	15 29 35.1					
		e $\overline{E}$	15 29 34.8					
		e $\overline{E}$	15 29 38.3					
		F	15 30					
Mar. 3	Iv	e $\overline{P}$ E	05 50 00.8					
		e $\overline{P}$ N	05 50 01.5					
		e $\overline{S}$ N	05 50 28.7					
		e $\overline{S}$ E	05 50 29.0					
		F	05 52					
Mar. 3	Iv	e $\overline{P}$ EN	10 19 50.5					See discussion, p.
		e $\overline{S}$ E	10 20 33.0					
		e $\overline{S}$ N	10 20 33.3					
		F	10 23					
Mar. 3	Id	i $\overline{P}$ E	11 26 44.0					See discussion, p.
		i $\overline{P}$ N	11 26 44.2					
		iN	11 26 50.0					
		i $\overline{S}$ N	11 26 56.5					
		i $\overline{S}$ E	11 26 57.0					
		F	11 28					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Mar. 3	Iv	eP _E	21 29 43.3					
		eP _N	21 29 43.5					
		iS _N	21 30 22.3					
		iS _E	21 30 22.6					
		F	21 32					
Mar. 6	Iv	iP _{EN}	04 51 57.3					See discussion, p.
		iS _{EN}	04 52 14.1					
		F	04 54					
Mar. 12	Id	eP _E	10 17 50.4					See discussion, p.
		eS _N	10 17 55.3					
		iS _E	10 17 55.3					
		F	10 19					
Mar. 17	Iv	eP _{EN}	20 27 32.7					
		iS _N	20 28 25.2					
		eS _E	20 28 25.2					
		F	20 30					
Mar. 17	I	e _{EN}	21 40 11.7					
		e _N	21 40 13.7					
		e _E	21 40 18.7					
		e _E	21 40 30.7					
		e _N	21 40 34.7					
		e _E	21 40 45.7					
		F	21 45					
Mar. 18	Id	iP _{EN}	04 08 32.7					See discussion, p.
		iS _{EN}	04 08 33.2					
		F	04 09					
Mar. 21	Id	eP _{EN}	21 09 43.6					See discussion, p.
		iS _{EN}	21 09 46.0					
		F	21 10					
Mar. 21	Id	eP _{EN}	22 35 34.8					See discussion, p.
		eS _N	22 35 35.8					
		eS _E	22 35 36.3					
		F	22 36 [±]					
Mar. 21	Id	eP _{EN}	22 38 18.8					See discussion, p.
		eS _{EN}	22 38 20.5					
		F	22 39					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Mar. 22	Id	e $\overline{P}_N$	21 45 10.9					See discussion, p. 2
		e $\overline{P}_E$	21 45 11.1					
		e $\overline{S}_{EN}$	21 45 12.3					
		F	21 46					
Mar. 25	Id	e $\overline{P}_{EN}$	03 43 27.4					See discussion, p. 2
		e $\overline{S}_{EN}$	03 43 28.3					
		F	03 44					
Mar. 25	Id	e $\overline{P}_{EN}$	15 38 21.5					See discussion, p. 2
		e $\overline{S}_N$	15 38 28.7					
		e $\overline{S}_E$	15 38 28.9					
		F	15 40					
Mar. 27	Id	e $\overline{P}_N$	13 50 25.9					See discussion, p. 2
		e $\overline{P}_E$	13 50 26.4					
		e $\overline{S}_{EN}$	13 50 35.9					
		F	13 51+					
Mar. 28	Id	e $\overline{P}_{EN}$	12 21 46.0					See discussion, p. 2
		e $\overline{S}_E$	12 21 50.0					
		i $\overline{S}_N$	12 21 50.2					
		F	12 23					
Mar. 31	Id	e $\overline{P}_N$	11 10 34.8					See discussion, p. 2
		e $\overline{S}_E$	11 10 36.6					
		i $\overline{S}_N$	11 10 36.8					
		F	11 11					



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THE BRANNER STATION, STANFORD UNIVERSITY
PALO ALTO, CALIFORNIA

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Latitude and longitude of the seismographic station:

$\varphi = 37^{\circ}25'$ N Lat.
 $\lambda = 122^{\circ}11'$ W from Greenwich.

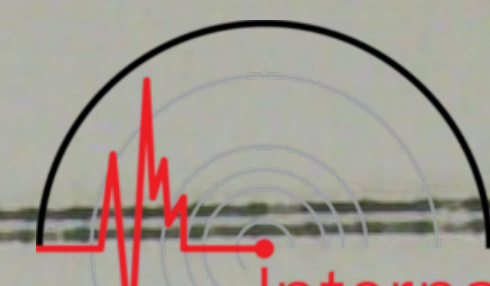
Time.--All determinations are reduced to Universal Time.

Altitude, 83 meters (272 feet) above mean sea level.

CONSTANTS OF THE SEISMOGRAPHS

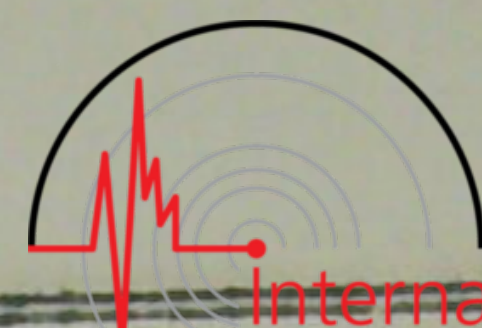
Apparatus	Component	V	T ₀	ε
Wood-Anderson	E	3000	1	15
	N	3000	1	15

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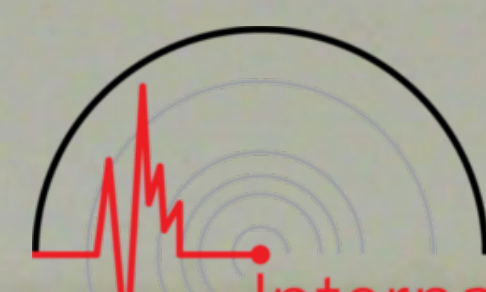
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					AE	AN	AZ	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 1	Iv	eP _E	00 53 16.0					See discussion, p.
		iP _N	00 53 16.0					
		iN	00 53 21.5					
		eE	00 53 28.0					
		iN	00 53 30.5					
		eE F	00 53 31.0 00 54					
Oct. 1	Id	eP _E	03 40 45.5					See discussion, p.
		eN	03 40 48.4					
		eE	03 40 49.0					
		iS _{EN}	03 40 53.5					
		eN	03 40 55.5					
		iN F	03 41 01.9 03 42					
Oct. 1	I	eE	18 24 38.0					
		eN	18 24 40.0					
		iN	18 25 20.5					
		F	18 26					
Oct. 2	IIId	iP _N	20 20 45.3					See discussion, p.
		iP _E	20 20 45.4					
		iS _N	20 20 52.5					
		iS _E	20 20 53.0					
		F	20 25					
Oct. 2	IIId	iP _E	20 30 49.8					See discussion, p.
		iP _N	20 30 50.1					
		iE	20 30 56.1					
		iS _N	20 30 57.0					
		F	20 34					
Oct. 2	Id	eP*N	22 08 15.1					See discussion, p.
		eP*E	22 08 15.3					
		eE	22 08 20.3					
		iN	22 08 20.5					
		iS*N	22 08 22.1					
		iS _E	22 08 22.8					
		iS _N	22 08 23.1					
		F	22 09					
Oct. 2	Id	eP _{EN}	22 14 16.3					See discussion, p.
		iN	22 14 21.5					
		iS _{EN}	22 14 24.5					
		F	22 15					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 3	Id	e $\overline{P}_N$	06 17 34.5					See discussion, p. 2
		e $\overline{P}_E$	06 17 35.2					
		i $\overline{S}_N$	06 17 42.7					
		i $\overline{S}_E$	06 17 43.2					
		F	06 18					
Oct. 3	Iv	e $\overline{P}_N$	20 23 46.5					See discussion, p. 2
		e $\overline{P}_E$	20 23 49.0					
		i $\overline{S}_E$	20 24 03.5					
		i $\overline{S}_N$	20 24 05.0					
		F	20 25					
Oct. 4	Id	e $\overline{P}_N$	06 19 00.4					S-P = 1.2 sec.
		F	06 20					
Oct. 5	Id	e $\overline{P}_N$	09 38 11.8					See discussion, p. 2
		F	09 39					
Oct. 6	Id	e $\overline{S}_N$	02 17 29.0					See discussion, p. 2
		i $\overline{N}$	02 17 36.8					
		i $\overline{N}_F$	02 17 39.5					
		F	02 19					
Oct. 6	Id	e $\overline{P}_N$	15 17 22.3					See discussion, p. 2
		e $\overline{P}_E$	15 17 22.8					
		i $\overline{S}_{EN}$	15 17 23.8					
		F	15 18					
Oct. 6	Id	e $\overline{P}_E$	20 30 35.3					See discussion, p.
		e $\overline{P}_N$	20 30 35.9					
		i $\overline{E}_N$	20 30 41.1					
		i $\overline{N}$	20 30 43.9					
		i $\overline{E}$	20 30 44.2					
		F	20 32					
Oct. 7	Id	e $\overline{P}_{EN}$	02 47 08.5					See discussion, p.
		i $\overline{N}$	02 48 13.5					
		i $\overline{E}$	02 47 14.5					
		i $\overline{N}$	02 47 15.5					
		i $\overline{S}_N$	02 47 16.1					
		i $\overline{S}_E$	02 47 16.5					
		F	02 48					
Oct. 8	Id	e $\overline{P}_{EN}$	08 42 09.6					See discussion, p.
		i $\overline{N}$	08 42 14.8					
		i $\overline{E}$	08 42 15.2					
		i $\overline{S}_N$	08 42 17.1					
		i $\overline{S}_E$	08 42 17.2					
		F	08 43					

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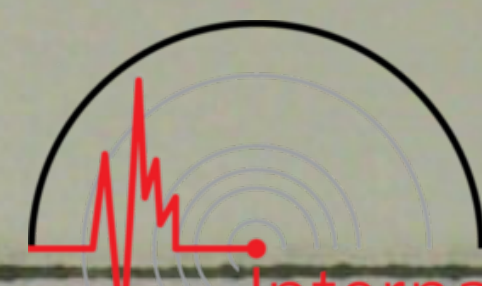
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 10	Iu	iN	15 55 32.0					U.S.C. & G.S. epi- center 20°S, 176°W
		iE	15 55 33.0					
		iN	15 55 34.0					
		iE	15 55 42.0					
		eN	16 03 04.0					
		eE	16 03 05.0					
		F	16 11					
Oct. 12	Id	ePEN	01 53 09.0					See discussion, p. P in Franciscan formation.
		iSEN	01 54-					
Oct. 13	Iv	ePEN	03 56 01.5					See discussion, p.
		iSN	03 56 34.5					
		iSE	03 56 38.5					
		F	03 58					
Oct. 13	Id	ePEN	09 07 08.9					See discussion, p.
		iSEN	09 07 16.9					
		F	09 08					
Oct. 13	Id	ePEN	10 17 10.4					See discussion, p.
		iSEN	10 17 18.4					
		F	10 18					
Oct. 13	Id	ePN	15 08 50.3					See discussion, p.
		ePE	15 08 51.3					
		iSEN	15 08 58.3					
		F	15 10					
Oct. 15	Id	ePEN	11 56 20.2					See discussion, p.
		iSEN	11 56 22.2					
		F	11 57					
Oct. 16	Id	ePE	19 32 51.6					See discussion, p.
		ePN	19 32 52.1					
		iEN	19 32 57.6					
		iSE	19 32 58.1					
		iSN	19 33 00.1					
		F	19 35					
Oct. 21	I	eEN	18 05 35.0					
		eN	18 06 28.0					
		eE	18 06 31.0					
		F	18 08					

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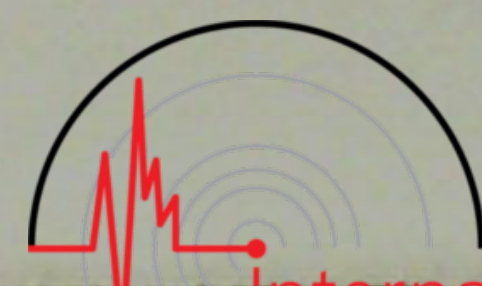
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 22	Id	e $\overline{P}$ _N	04 54 26.1					See discussion, p.
		e $\overline{P}$ _E	04 54 26.2					
		i $\overline{S}$ _N	04 54 28.1					
		i $\overline{S}$ _E	04 54 28.2					
		F	04 55					
Oct. 22	Id	e $\overline{P}$ _{EN}	13 45 19.4					See discussion, p.
		i $\overline{S}$ _{EN}	13 45 21.4					
		F	13 46					
Oct. 23	Id	eP* _{EN}	21 09 46.4					See discussion, p.
		iS* _{EN}	21 09 54.4					
		F	21 11					
Oct. 24	Id	e $\overline{P}$ _{EN}	23 53 43.9					See discussion, p.
		i $\overline{S}$ _{EN}	23 53 45.9					
		F	23 55					
Oct. 25	Id	e $\overline{P}$ _{EN}	00 03 55.0					See discussion, p.
		i $\overline{S}$ _{EN}	00 03 56.5					
		F	00 05					
Oct. 25	Id	e $\overline{P}$ _{EN}	00 55 54.5					See discussion, p.
		i $\overline{S}$ _{EN}	00 55 56.5					
		F	00 56					
Oct. 25	Id	e $\overline{P}$ _{EN}	03 20 29.1					See discussion, p.
		i $\overline{S}$ _N	03 20 30.1					
		i $\overline{S}$ _E	03 20 30.6					
		i $\overline{S}$ _{EN}	03 20 35.1					
		i $\overline{S}$ _{EN}	03 20 37.6					
		F	03 23					
Oct. 25	Id	eP*N	06 22 00.7					See discussion, p.
		iS*N	06 22 11.2					
		F	06 23					
Oct. 25	Id	e $\overline{P}$ _{EN}	14 42 42.0					See discussion, p.
		i $\overline{S}$ _{EN}	14 42 43.5					
		F	14 43					
Oct. 26	Id	e $\overline{P}$ _{EN}	06 22 05.3					See discussion, p.
		iS* _{EN}	06 22 13.8					
		eS* _E	06 22 17.0					
		F	06 23					
Oct. 26	I	eP _{EN}	17 23 28.5					
		F	17 25					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 28	Iv	eP _N	06 39 08.8					
		eP _E	06 39 09.3					
		i _E	06 39 30.8					
		iS _N	06 39 32.3					
		eS _E	06 39 34.3					
		F	06 40					
Oct. 28	I	eP _N	22 06 41.0					
		eP _E	22 06 42.0					
		i _{EN}	22 07 36.0					
		F	22 10					
Oct. 29	I	e _N	02 38 23.2					
		e _E	02 38 24.2					
		e _E	02 42 20.2					
		F	02 56					
Oct. 31	Id	eP _{EN}	13 51 32.8					
		iS _{EN}	13 51 34.8					See discussion, p.
		F	13 52					
Nov. 4	I	eP _N	02 06 28.8					
		F	02 08					
Nov. 4	Id	eP _N	22 12 50.2					
		eP _E	22 12 51.2					
		i _E	22 13 04.2					
		i _N	22 13 04.7					See discussion, p.
		iS _N	22 13 07.2					
		F	22 14					
Nov. 4	Id	iP _N	23 35 03.3					
		eP _E	23 35 03.8					
		iS _E	23 35 16.3					See discussion, p.
		i _N	23 35 38.3					
		F	23 36					
Nov. 5	Id	eP _N	19 19 06.7					
		eP _E	19 19 07.2					
		iS _N	19 19 11.7					See discussion, p.
		i _E	19 19 12.7					
		i _N	19 19 21.7					
		F	19 20					
Nov. 5	I	eP _N	23 09 56.4					
		i _N	23 10 38.4					
		F	23 35					

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Date	Char- acter	Phase	Time U.T. h. m. s.	Period s.	Amplitude			Remarks
					A _E mm.	A _N mm.	A _Z mm.	
1934								
Nov. 5	Id	e $\overline{P}$ _{EN}	23 34 30.4					See discussion, p.
		i $\overline{S}$ _{EN}	23 34 34.9					
		F	23 36					
Nov. 7	Iv	e $\overline{P}$ _E	00 09 03.8					See discussion, p.
		e $\overline{P}$ _N	00 09 04.3					
		i $\overline{S}$ _E	00 09 17.8					
		i $\overline{S}$ _N	00 09 18.3					
		F	00 10					
Nov. 7	Id	e $\overline{P}$ _N	01 43 58.5					See discussion, p.
		i $\overline{S}$ _N	01 44 00.5					
		F	01 45					
Nov. 8	Id	e $\overline{P}$ _{EN}	13 48 38.6					See discussion, p.
		i $\overline{S}$ _{EN}	13 48 50.6					
		F	13 51					
Nov. 9	Id	e $\overline{P}$ _N	00 47 08.4					See discussion, p.
		e $\overline{S}$ _{EN}	00 47 12.4					
		F	00 49					
Nov. 11	Id	i $\overline{P}$ _{EN}	18 35 58.4					
		i $\overline{N}$	18 35 59.7					
		i $\overline{S}$ _N	18 36 00.7					
		e $\overline{S}$ _E	18 36 00.7					
		F	18 37					
Nov. 12	Id	e $\overline{P}$ _{EN}	06 15 01.1					See discussion, p.
		i $\overline{S}$ _E	06 15 13.1					
		e $\overline{S}$ _N	06 15 13.1					
		F	06 24					
Nov. 12	Id	e $\overline{P}$ _{EN}	06 25 34.1					See discussion, p.
		e $\overline{S}$ _N	06 25 47.1					
		i $\overline{S}$ _E	06 25 47.1					
		F	06 27					
Nov. 16	Iv	e $\overline{P}$ _{EN}	05 37 31.4					See discussion, p.
		i $\overline{S}$ _{EN}	05 38 18.4					
		F	05 45					
Nov. 17	Iv	i $\overline{P}$ _{EN}	17 42 41.0					See discussion, p.
		e $\overline{S}$ _{EN}	17 43 17.5					
		F	17 46					
Nov. 18	Id	e $\overline{EN}$	16 54 $\pm$					S-P = 5.3 sec. See discussion, p.
		F	16 55					

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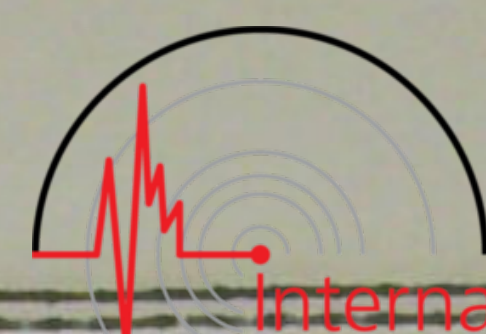
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Nov. 30	IIr	eP _{EN}	02 10 28.0					U.S.C. & G.S. epi- center 20°N, 104°W
		i _E	02 14 13.0					
		eS _E	02 14 52.0					
		eS _N	02 14 56.0					
		F	02 15					
Nov. 30	I	e _N	19 32 18.0					
		e _{EN}	19 33 00.5					
		F	19 35					
Dec. 1	Id	e _{P_N}	02 27 23.1					See discussion, p.
		i _{P_E}	02 27 23.1					
		iS* _{EN}	02 27 26.9					
		i _{S_{EN}}	02 27 27.3					
		F	02 28					
Dec. 1	Iv	iP _N	13 05 18.9					See discussion, p.
		eP _E	13 05 18.9					
		iS _N	13 05 34.7					
		eS _E	13 05 34.9					
		F	13 07					
Dec. 2	I	eP _N	16 07 46.3					See discussion, p.
		eP _E	16 07 46.5					
		iS _N	16 08 19.5					
		eS _E	16 08 20.0					
		F	16 10					
Dec. 3	IIId	i _{P_{EN}}	01 54 50.2					See discussion, p.
		i _N	01 55 04.0					
		iS _{EN}	01 55 08.0					
		F	02 00					
Dec. 3	I	e _N	02 45 48.0					
		e _E	02 45 49.5					
		e _E	02 46 00.0					
		i _N	02 46 01.5					
		F	02 50					
Dec. 4	Id	e _{P_{EN}}	04 26 32.5					See discussion, p.
		iS _E	04 26 40.0					
		e _{EN}	04 26 42.7					
		F	04 27					
Dec. 4	Iv	iS _N	06 18 34.0					
		eP _{EN}	06 18 50.0					
		eS _E	06 19 34.0					
		F	06 24					

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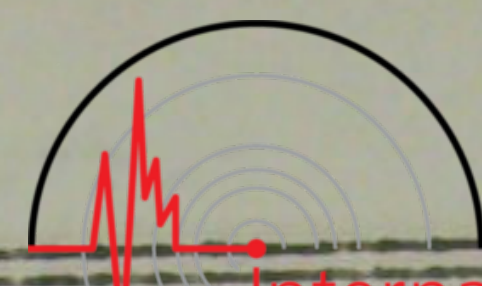
Date	Char-acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Dec. 4	Iu	e _{EN}	17 36 15.0					U.S.C. & G.S. epi- center 19° S., 70° W.
		e _{EN}	17 45 48.5					
		F	17 52					
Dec. 6	Id	i _{PEN}	17 37±					See discussion, p. 2 S-P = 4.7 sec. No time marks.
		F	17 38					
Dec. 6	Id	i _{PEN}	21 21 10.6					See discussion, p. 2
		i _N	21 21 11.6					
		i _{SEN}	21 21 12.6					
		F	21 21+					
Dec. 8	I	i _{PN}	09 40 50					
		e _{PE}	09 40 50					
		i _N	09 41 23					
		e _E	09 52 00					
		F	10 00					
Dec. 13	Id	i _{PN}	02 29 42.6					See discussion, p. 2
		i _{SN}	02 29 50.6					
		i _{SE}	02 29 51.1					
		F	02 31					
Dec. 15	Iv	e _{P*N}	16 11 05.5					See discussion, p. 2
		e _{EN}	16 11 07.7					
		e _{SE}	16 11 26.0					
		i _{SN}	16 11 26.0					
		F	16 13					
Dec. 15	Iv	e _{PEN}	17 00 57.8					See discussion, p. 2
		i _{EN}	17 01 06.8					
		i _E	17 01 18.8					
		i _N	17 01 21.8					
		i _N	17 02 01.8					
		i _E	17 02 05.3					
		F	17 05					
Dec. 15	I	i _{PEN}	19 25 53.5					
		i _{EN}	19 25 56.0					
		i _{EN}	19 26 00.0					
		i _E	19 26 07.5					
		F	19 29					
Dec. 17	II	i _{PEN}	11 10 49.9					
		i _N	11 10 59.2					
		i _{EN}	11 11 03.9					
		i _{EN}	11 11 07.4					
		F	11 17					

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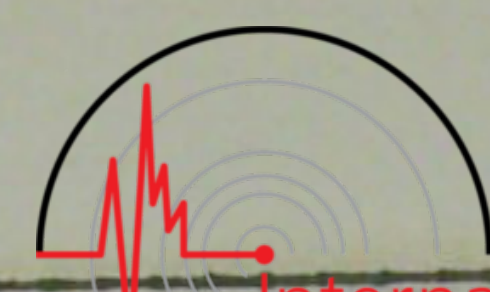
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Dec. 18	I	eP _N	03 10 03.0					
		eP _E	03 10 03.5					
		e _N	03 10 14.0					
		i _E	03 10 22.5					
		i _E	03 10 29.0					
		i _N	03 10 43.5					
		e _E F	02 11 03.5 03 14					
Dec. 19	Id	i _P _{EN}	22 54 04.5					See discussion, p.
		e _S _E	22 54 06.3					
		i _S _N	22 54 06.3					
		F	22 55					
Dec. 21	IIId	i _P _{EN}	13 04 28.3					See discussion, p.
		i _S _{EN}	13 04 30.0					
		F	13 06					
Dec. 22	IIId	i _P _N	01 08 46.7					See discussion, p.
		i _P _E	01 08 47.2					
		i _S _{EN}	01 08 52.1					
		F	01 12					
Dec. 22	I	eP _N	14 37 25.1					U.S.C. & G.S. epi- center 8°N., 89°W.
		eP _E	14 37 25.6					
		i _N	14 37 28.6					
		i _E	14 37 33.1					
		i _E	14 37 40.6					
		i _E	14 37 47.1					
		i _E	14 37 57.6					
		i _N F	14 38 26.1 14 45					
Dec. 23	IIId	i _P _{EN}	00 49 53.2					See discussion, p.
		i _S _N	00 49 55.2					
		F	00 52					
Dec. 24	Iv	eP _{EN}	16 26 35.7					See discussion, p.
		F	16 34					
Dec. 30	IIv	eP _{EN}	13 54 08.4					U.S.C. & G.S. epi- center 31°N., 116°W.
		i _S _{EN}	13 55 28.6					
		F	14 46					
Dec. 30	IIId	i _P _N	13 55 29.0					See discussion, p.
		F	13 58					

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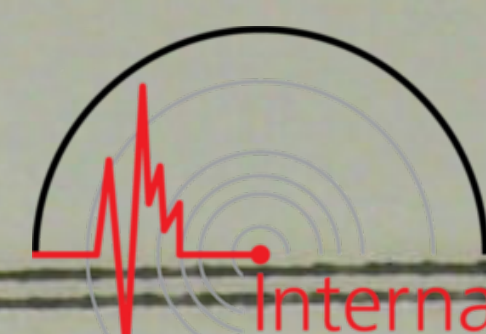
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Dec. 30	Id	i $\overline{P}$ _{EN}	14 58 02.3					See discussion, p. 2
		i $\overline{S}$ _{EN}	14 58 06.3					
		F	14 59					
Dec. 30	Id	e $\overline{P}$ _{EN}	15 04 13.5					See discussion, p. 2
		i $\overline{S}$ _{EN}	15 04 16.0					
		i $\overline{E}$ _N	15 04 17.0					
		F	15 05					
Dec. 30	Id	e $\overline{P}$ _N	15 11 52.2					See discussion, p. 2
		i $\overline{E}$	15 11 54.2					
		i $\overline{N}$	15 11 54.5					
		i $\overline{S}$ _N	15 11 55.1					
		F	15 13					
Dec. 30	Id	e $\overline{P}$ _{EN}	19 04 16.9					See discussion, p. 2
		i $\overline{S}$ _N	19 04 19.7					
		e $\overline{S}$ _E	19 04 19.7					
		i $\overline{S}$ _N	19 04 20.4					
		F	19 05					
Dec. 31	IIId	i $\overline{P}$ _{EN}	05 50 34.2					See discussion, p. 2
		e $\overline{S}$ _{EN}	05 50 36.2					
		F	05 54					
Dec. 31	IIv	e $\overline{P}$ _{EN}	18 47 50.0					U.S.C. & G.S. epi- center 30°N., 116°W
		i $\overline{N}$	18 48 10.0					
		i $\overline{N}$	18 48 22.0					
		i $\overline{E}$	18 48 29.0					
		i $\overline{E}$	18 48 48.0					
		i $\overline{N}$	18 48 53.0					
		i $\overline{E}$	18 49 52.0					
		F	20 16					
1935								
Jan. 1	I	e $\overline{P}$ _E	13 31 58.9					U.S.C. & G.S. epi- center 17°S., 174°W
		e $\overline{P}$ _N	13 32 01.1					
		e $\overline{S}$ _E	13 41 01.4					
		e $\overline{S}$ _N	13 41 02.9					
		F	13 46					
Jan. 1	I	e $\overline{E}$	23 02 44.4					
		i $\overline{N}$	23 02 45.1					
		i $\overline{N}$	23 02 54.9					
		e $\overline{E}$	23 02 56.4					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Jan. 2	IIv	ePN	22 41 57.0					See discussion, p. 25
		ePE	22 41 57.3					
		eEN	22 41 58.5					
		eE	22 42 41.2					
		eN	22 43 15.2					
		eE	22 43 37.2					
		F	23 04					
Jan. 3	Id	iPN	05 45 25.2					See discussion, p. 25
		iSEN	05 45 28.2					
		F	05 47					
Jan. 3	Id	ePN	07 49 16.8					See discussion, p. 25
		iSN	07 49 19.8					
		iSE	07 49 20.3					
		F	07 51					
Jan. 3	IId	iPN	17 35 36.1					See discussion, p. 25
		iPE	17 35 36.3					
		iSN	17 35 39.1					
		F	17 39					
Jan. 3	Id	ePN	17 46 46.1					See discussion, p. 25
		iSEN	17 46 48.3					
		iSEN	17 46 49.1					
		F	17 48					
Jan. 3	Id	iPN	17 49 25.3					See discussion, p. 25
		iN	17 49 27.8					
		iSN	17 49 28.3					
		F	17 50					
Jan. 3	Id	ePN	18 06 40.3					See discussion, p. 25
		ePE	18 06 40.5					
		iE	18 06 42.8					
		iSN	18 06 43.0					
		iSN	18 06 48.8					
		F	18 08					
Jan. 3	Id	ePN	18 17 25.1					See discussion, p. 25 S-P = 1.5 sec.
		ePE	18 17 25.8					
		F	18 19					
Jan. 3	Id	iPN	18 42 58.5					See discussion, p. 25
		iSEN	18 43 01.0					
		F	18 44					

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Date	Char- acter	Phase	Time U.T. h. m. s.	Period s.	Amplitude			Remarks
					A _E mm.	A _N mm.	A _Z mm.	
1935								
Jan. 4	Id	iP* _{EN} eS* _{EN} F	11 15 02.9 11 15 15.7 11 16					See discussion, p. 2
Jan. 5	Id	eP _{EN} eS _E eS _N F	13 13 13.0 13 13 17.0 13 13 17.0 13 14					See discussion, p. 2
Jan. 5	Id	iP _N eP _E iS _N eS _E F	19 16 04.7 19 16 04.7 19 16 07.5 19 16 07.5 19 17					See discussion, p. 2
Jan. 5	Id	eP _N eS _{EN} F	19 18 03.6 19 18 05.8 19 19					See discussion, p. 2
Jan. 5	Id	iP _{EN} iS _N F	19 52 06.2 19 52 09.0 19 54					See discussion, p. 2
Jan. 5	Id	eP _{EN} eS _{EN} F	20 13 50.6 20 13 53.1 20 15					See discussion, p. 2
Jan. 5	Id	iP _N eP _E iS _E iN iS _N F	21 40 11.3 21 40 11.3 21 40 14.3 21 40 14.8 21 40 15.8 21 41					See discussion, p. 2
Jan. 5	Id	eP _N eS _{EN} F	21 57 09.1 21 57 11.6 21 58					See discussion, p. 2
Jan. 5	Id	eP _{EN} iS _N eS _E F	23 18 02.8 23 18 05.8 23 18 05.8 23 19					See discussion, p. 2
Jan. 6	I	eP _{EN} iE iN iN eE F	04 05 33.0 04 05 41.5 04 05 42.0 04 06 02.5 04 06 03.0 04 09					See discussion, p. 2

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Date	Char-acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Jan. 6	I	eP _N	04 40 43.5					See discussion, p.
		eP _E	04 40 44.0					
		eEN	04 41 14.5					
		F	04 43					
Jan. 6	Id	iP _{EN}	11 25 00.4					See discussion, p.
		iS _{EN}	11 25 02.9					
		F	11 26					
Jan. 8	Id	eP _N	02 32 26.4					See discussion, p.
		eP _E	02 32 26.7					
		iS _N	02 32 34.9					
		eEN	02 32 37.7					
		F	02 34					
Jan. 8	Id	iP _N	02 34 55.7					See discussion, p.
		eP _E	02 34 55.7					
		eN	02 35 03.2					
		iS _N	02 35 05.4					
		F	02 38					
Jan. 8	Id	eP _{EN}	02 56 34.2					See discussion, p.
		eS _N	02 56 44.7					
		F	02 58					
Jan. 8	Id	eP _N	15 50 10.0					See discussion, p.
		eS _{EN}	15 50 23.5					
		F	15 52					
Jan. 14	Id	eP _{EN}	03 56 49.1					See discussion, p.
		iS _{EN}	03 56 52.1					
		F	03 57					
Jan. 14	Id	eP _N	07 05 15.4					See discussion, p.
		eP _E	07 05 15.7					
		iS _{EN}	07 05 18.2					
Jan. 17	I	eEN	02 20 56.4					
		eN	02 21 23.4					
		eE	02 21 25.4					
Jan. 18	Id	eP _{EN}	09 43 54.2					See discussion, p.
		eS _N	09 44 01.7					
		eS _E	09 44 02.2					
		F	09 44					

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Date	Char-acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Jan. 21	Id	e $\overline{P}_N$	20 46 55.3					See discussion, p.2
		e $\overline{S}_N$	20 46 59.1					
		i $\overline{S}_E$	20 46 59.1					
		F	20 48					
Jan. 23	Id	e $\overline{P}_N$	03 21 52.5					See discussion, p.2
		e $\overline{N}$	03 21 56.0					
		e $\overline{S}_{EN}$	03 22 03.5					
		F	03 23					
Jan. 23	Ir	e $\overline{P}_{EN}$	07 30 13.8					U.S.C. & G.S. epi- center 52°N., 107°W.
		e $\overline{E}$	07 35 45.3					
		e $\overline{S}_N$	07 36 06.3					
		F	08 07					
Jan. 23	I	e $\overline{N}$	13 53 46.1					
		e $\overline{E}$	13 53 54.6					
		e $\overline{N}$	13 54 02.6					
		e $\overline{E}$	13 54 08.6					
		e $\overline{N}$	13 54 25.1					
		e $\overline{E}$	13 54 35.6					
		e $\overline{N}$	13 54 48.6					
		F	13 57					
Jan. 27	Iv	i $\overline{P}_N$	05 24 56.7					See discussion, p.2
		e $\overline{P}_E$	05 24 56.7					
		i $\overline{S}_{EN}$	05 25 11.0					
		F	05 27					
Jan. 28	Id	e $\overline{P}_N$	05 25 16.2					See discussion, p.2
		e $\overline{S}^*_N$	05 25 21.7					
		e $\overline{N}$	05 25 23.0					
		e $\overline{E}$	05 25 23.2					
		F	05 26					
Jan. 28	Id	e $\overline{P}_N$	11 09 38.5					See discussion, p.2
		e $\overline{P}_E$	11 09 38.7					
		e $\overline{S}_N$	11 09 41.5					
		e $\overline{S}_E$	11 09 41.5					
		F	11 11					
Jan. 31	Id	i $\overline{P}_{EN}$	22 28 40.5					See discussion, p.2
		i $\overline{S}_N$	22 28 43.0					
		F	22 30					
Feb. 2	Iv	e $\overline{P}_{EN}$	13 30 29.5					See discussion, p.2
		i $\overline{S}_N$	13 30 50.0					
		F	13 33					

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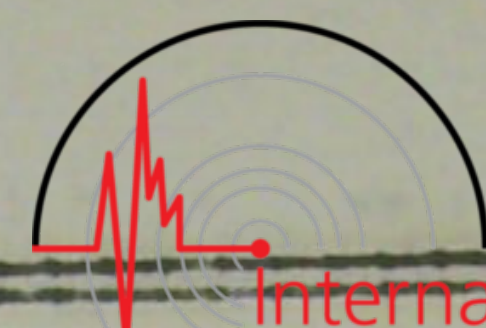
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Feb. 3	Id	e $\overline{P}$ _{EN} i $\overline{S}$ _{EN} F	14 13 17.1 14 13 19.1 14 15					See discussion, p.
Feb. 3	Id	e $\overline{P}$ _N e $\overline{S}$ _{EN} F	16 38 51.3 16 38 53.3 16 40					See discussion, p.
Feb. 4	I	e $\overline{P}$ _N e $\overline{N}$ e $\overline{S}$ _E e $\overline{S}$ _N F	03 43 08.2 03 43 24.2 03 43 24.2 03 43 25.7 03 45					See discussion, p.
Feb. 7	I	e $\overline{E}$ _N e $\overline{S}$ _{EN} F	09 39 48.1 09 40 39.6 09 42					
Feb. 8	I	e $\overline{P}$ _N e $\overline{S}$ _N F	04 24 32.9 04 25 24.9 04 28					
Feb. 8	Iv	e $\overline{P}$ _{EN} e $\overline{S}$ _E e $\overline{S}$ _N F	23 59 07.9 23 59 23.0 23 59 23.6 00 00					See discussion, p.
Feb. 11	Id	e $\overline{P}$ _{EN} e $\overline{S}$ _{EN} F	08 19 26.6 08 19 31.6 08 21					See discussion, p.
Feb. 16	Id	e $\overline{P}$ _N i $\overline{S}$ _{EN} F	00 26 29.3 00 26 38.3 00 27					See discussion, p.
Feb. 16	Id	e $\overline{P}$ _{EN} i $\overline{S}$ _N e $\overline{S}$ _E F	16 15 27.1 16 15 28.6 16 15 28.6 16 16					See discussion, p.
Feb. 18	Iv	e $\overline{P}$ _{EN} e $\overline{N}$ e $\overline{N}$ e $\overline{S}$ _E F	04 02 48.1 04 03 09.1 04 03 15.1 04 03 19.6 04 24					See discussion, p.

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Feb. 19	Iv	eP _{EN} eS _{EN} F	14 17 37.5 14 18 00.0 14 19					See discussion, p.
Feb. 20	Id	iP _{EN} e _{EN} eS _N F	19 31 18.2 19 31 21.9 19 31 25.2 19 33					See discussion, p.
Feb. 20	Id	iP _{EN} iS _N F	23 04 49.8 23 04 52.0 23 05					See discussion, p.
Feb. 22	IIu	eP _{EN} eS _N eS _E eN F	17 14 18.3 17 21 00.8 17 21 04.8 17 21 48.8 19 02					U.S.C. & G.S. epi- center 52°N., 175°W.
Feb. 28	I	eE iN eE iN F	07 21 50.1 07 22 17.1 07 22 17.1 07 22 19.6 07 24					
Feb. 28	Iv	eP _N eP _E eS _E iS _N F	10 22 59.3 10 23 01.3 10 23 11.3 10 23 11.3 10 25					See discussion, p.
Feb. 28	Iv	eP*N eP*E eS _{EN} F	11 43 41.8 11 43 42.3 11 43 58.8 11 44					See discussion, p.
Feb. 28	Iv	eP _E eP _N iS _E iS _N F	19 07 07.5 19 07 10.0 19 07 31.5 19 07 32.2 19 10					See discussion, p.
Mar. 2	Id	eP _N eS _E iS _N iN eE F	15 29 35.4 15 29 46.4 15 29 46.4 15 29 47.9 15 29 47.9 15 31					See discussion, p.

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1935			h. m. s.	s.	mm.	mm.	mm.	
Mar. 2	Iv	eP _N eS _{EN} F	05 50 07.4 05 50 38.4 05 53					
Mar. 3	Id	eP _{EN} iS _N eS _E F	10 19 45.7 10 19 49.7 10 19 49.7 10 22					See discussion, p. 2
Mar. 3	Iv	iP _{EN} iS _E iS _N F	11 26 49.2 11 27 04.2 11 27 04.7 11 29					See discussion, p. 2
Mar. 6	Iv	eP _N eS _{EN} F	04 52 02.6 04 52 23.6 04 55					See discussion, p. 2
Mar. 6	Id	iP _N eP _E iS _{EN} F	22 01 37.8 22 01 37.8 22 01 41.3 22 03					See discussion, p. 2
Mar. 11	Id	iP _{EN} iS _N eS _E F	19 44 28.8 19 44 31.0 19 44 31.0 19 46					See discussion, p. 2
Mar. 12	Id	eP _E iS _E F	10 17 49.7 10 17 53.7 10 19					See discussion, p. 2
Mar. 22	Id	eP _N eS _N F	16 17 33.8 16 17 45.3 16 18					See discussion, p. 2
Mar. 23	Iv	eP _E iP _N eN eS _{EN}	08 26 21.2 08 26 21.2 08 26 30.7 08 26 45.7					See discussion, p. 2
Mar. 25	Id	eP _N iS _N eS _E F	15 38 26.3 15 38 35.8 15 38 37.8 15 41					See discussion, p. 2
Mar. 28	Id	eP _N iS _N F	12 21 53.4 12 22 02.9 12 23					See discussion, p. 2



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THE SAN FRANCISCO STATION, CALIFORNIA ACADEMY OF SCIENCES
SAN FRANCISCO, CALIFORNIA

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Latitude and longitude of the center of the seismographic room:

$\varphi = 37^{\circ} 46' \text{ N Lat.}$

$\lambda = 122^{\circ} 28' \text{ W from Greenwich.}$

Time.--All determinations are reduced to Universal Time.

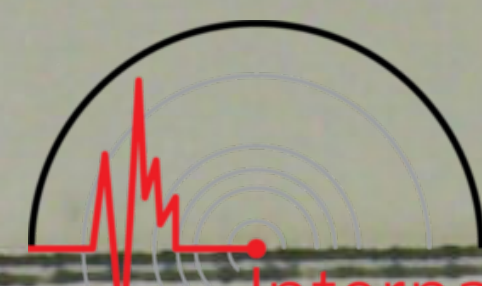
Altitude.--67 meters (220 feet) above mean sea level.

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Apparatus	Component	V	T_0	ϵ
Wood-Anderson	N 75 W	3000	1	15
	N	3000	1	15

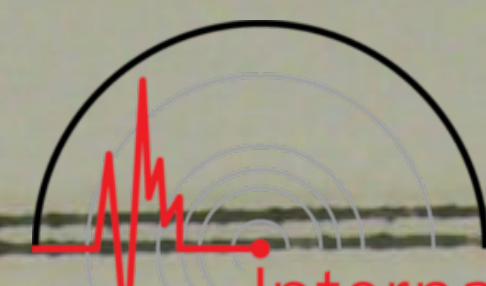
The instruments at the San Francisco station are much agitated by street traffic throughout the day, and therefore it is only occasionally that an earthquake is sufficiently well recorded there for accurate measurements to be taken. This explains the small number of measurements made for the station.

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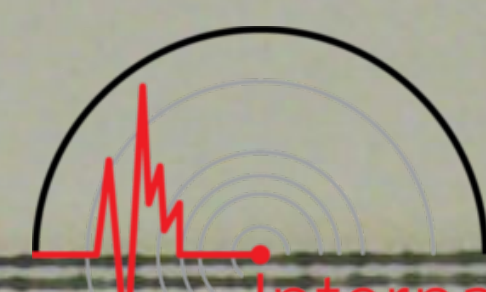
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 1	Id	i _E	00 53 13.5					See discussion, p.
		i _E	00 53 14.7					
		F	00 54					
Oct. 2	Id	i _P _E	20 20 39.8					See discussion, p.
		i _P _N	20 20 39.2					
		F	20 22					
Oct. 2	IIId	i _P _E	20 30 43.8					See discussion, p.
		i _P _N	20 30 44.5					
		F	20 32					
Oct. 2	Id	i _P _E	22 08 08.8					See discussion, p.
		F	22 09					
Oct. 2	Id	i _P _E	22 14 09.5					See discussion, p.
		e _E	22 14 10.7					
		F	22 15					
Oct. 3	Id	i _P _E	06 17 26.8					See discussion, p.
		i _P _N	06 17 27.0					
		F	06 19					
Oct. 6	I	i _P _E	02 17 20.3					See discussion, p. S-P = 04.0 sec.
		F	02 18					
Oct. 7	Id	i _P _N	02 47 00.5					See discussion, p.
		i _P _E	02 47 01.0					
		F	02 48					
Oct. 8	Id	i _P _N	08 42 03.2					See discussion, p. S-P = 1.8 sec.
		F	08 43					
Oct. 10	Iu	e _P _E	15 53 33.0					U.S.C. & G.S. epi- center 23°S., 176°W
		e _P _N	15 53 34.5					
		e _S _E	16 03 04.5					
		e _S _N	16 03 05.5					
		F	16 12					
Oct. 13	Id	i _P _E _N	09 07 02.0					See discussion, p.
		i _S _E	09 07 03.7					
		F	09 08					
Oct. 13	Id	i _P _E _N	09 07 02.0					See discussion, p.
		i _S _E	09 07 03.7					
		F	09 08					

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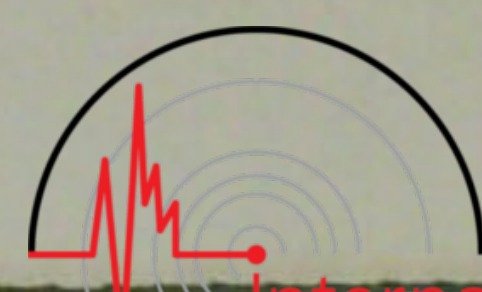
Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Oct. 13	Id	i $\overline{P}_E$	10 17 04.3					See discussion, p.
		i $\overline{P}_N$	10 17 04.5					
		i $\overline{S}_E$	10 17 05.8					
		F	10 18					
Oct. 13	Id	i $\overline{P}_E$	15 08 43.8					See discussion, p.
		i $\overline{P}_N$	15 08 44.0					
		i $\overline{S}_E$	15 08 45.4					
		F	15 09					
Oct. 23	Id	i $\overline{P}_E$	21 09 57.5					See discussion, p.
		i $\overline{E}$	21 10 03.5					
		e $\overline{N}$	21 10 04.5					
		F	21 11					
Oct. 25	IId	i $\overline{P}_{EN}$	03 20 22.0					See discussion, p.
		F	03 21					
Oct. 25	Id	i $\overline{P}^*N$	06 21 58.5					See discussion, p.
		i $\overline{S}^*EN$	06 22 08.0					
		F	06 23					
Oct. 29	I	e $\overline{N}$	02 42 47.5					
		i $\overline{N}$	02 42 54.5					
		F	02 49					
Nov. 5	Id	e $\overline{P}_E$	19 19 05.0					See discussion, p.
		i $\overline{S}_E$	19 19 08.8					
		F	19 20					
Nov. 7	Id	e $\overline{P}_E$	00 08 55.0					See discussion, p.
		i $\overline{S}_E$	00 09 03.5					
		F	00 10					
Nov. 8	Iv	e $\overline{P}_E$	13 48 44.0					See discussion, p.
		e $\overline{P}_N$	13 48 44.5					
		i $\overline{S}_E$	13 49 00.5					
		e $\overline{S}_N$	13 49 01.0					
		F	13 50					
Nov. 16	Iv	e $\overline{E}$	05 37 23.5					See discussion, p.
		e $\overline{N}$	05 37 25.5					
		F	05 39					

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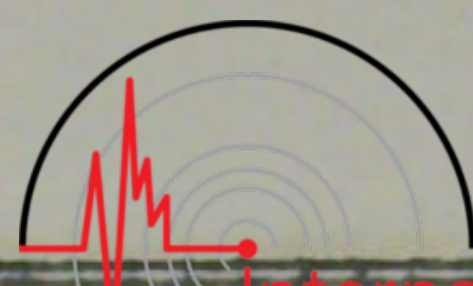
Date	Char-acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _N	A _Z	
1934			h. m. s.	s.	mm.	mm.	mm.	
Nov. 17	Iv	iPE	17 42 35.5					See discussion, p.
		iPN	17 42 35.7					
		iSE	17 43 08.7					
		iSN	17 43 08.9					
		F	17 45					
Nov. 30	IIr	ePN	02 10 33.5					U.S.C. & G.S. epi- center 20°N., 104°W
		ePE	02 10 34.0					
		eSN	02 14 52.0					
		eSE	02 15 00.0					
		eN	02 15 09.0					
		eN	02 16 31.0					
		eE	02 17 56.0					
		eN	02 18 07.0					
		eE	02 19 36.0					
		F	03 20					
Nov. 30	Id	iPE	12 20 14.5					See discussion, p.
		iPN	12 20 14.7					
		iSEN	12 20 16.2					
		F	12 21					
Dec. 1	I	eE	02 27 27.0					See discussion, p.
		F	02 28					
Dec. 3	Iv	ePEN	01 55 04.0					See discussion, p.
		eN	01 55 12.0					
		iN	01 55 17.0					
		iE	01 55 35.0					
		iN	01 55 45.0					
		F	01 56					
Dec. 4	Id	iPE	04 26 26.5					See discussion, p.
		iSE	04 26 28.2					
		F	04 27					
Dec. 4	Iv	ePE	06 18 51.0					
		ePN	06 18 52.0					
		iE	06 19 31.0					
		eN	06 19 32.0					
		F	06 21					
Dec. 13	Id	iPEN	02 29 35.7					See discussion, p.
		iSE	02 29 37.4					
		F	02 31					

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Date	Char- acter	Phase	Time U.T. h. m. s.	Period s.	Amplitude			Remarks
					AE mm.	AN mm.	AZ mm.	
1934								
Dec. 22	Iv	e _N	01 08 44.0					See discussion, p.
		e _E	01 08 47.5					
		e _N	01 09 04.5					
		i _{SE}	01 09 05.0					
		F	01 10					
Dec. 23	I	e _E	00 50 04.0					See discussion, p.
		i _E	00 50 06.0					
		F	00 51					
Dec. 24	Iv	i _E	16 26 17.5					See discussion, p.
		e _{PN}	16 26 45.0					
		e _{PE}	16 26 46.0					
		i _E	16 26 52.0					
		e _N	16 27 18.0					
		i _E	16 27 29.5					
		F	16 30					
Dec. 30	Iv	e _{PE}	13 52 20.0					
		e _{PN}	13 52 23.0					
		i _{SEN}	13 53 46.0					
		F	14 13					
Dec. 30	IIId	i _{PN}	13 55 36.5					See discussion, p.
		i _{SE}	13 55 44.2					
		F	13 58					
Dec. 31	Id	e _{PN}	05 51 33.7					See discussion, p.
		i _{SN}	05 51 42.0					
		i _{SE}	05 51 42.2					
		F	05 53					
Dec. 31	IIr	e _{PN}	18 47 30.0					U.S.C. & G.S. epi- center 30°N., 116°W
		e _{SN}	18 49 23.0					
		F	20 11					
1935								
Jan. 2	I	i _E	22 41 52.5					See discussion, p.
		e _{PN}	22 41 53.5					
		e _E	22 41 59.5					
		e _E	22 42 23.5					
		F	22 53					
Jan. 3	Id	i _{PN}	17 35 43.5					See discussion, p.
		i _{SE}	17 35 51.0					
		F	17 37					

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Date	Char- acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E	A _E	A _E	
1935			h. m. s.	s.	mm.	mm.	mm.	
Jan. 3	Id	e $\overline{P}$ EN	18 43 05.5					See discussion, p.
		i $\overline{S}$ E	18 43 13.5					
		e $\overline{S}$ N	18 43 13.8					
		F	18 44					
Jan. 4	Id	eP*EN	11 14 55.5					See discussion, p.
		e $\overline{S}$ N	11 15 05.5					
		i $\overline{S}$ E	11 15 06.0					
		F	11 16					
Jan. 6	Id	e $\overline{P}$ EN	11 25 08.0					See discussion, p.
		i $\overline{S}$ EN	11 25 15.5					
		F	11 26					
Jan. 8	Iv	eP _E	02 34 01.5					See discussion, p.
		eS _E	02 34 19.5					
		F	02 36					



FERNDALE

THE FERNDALE STATION
FERNDALE, CALIFORNIA

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Latitude and longitude of the center of the seismographic station:

$\varphi = 40^{\circ} 34'$ N. Lat.

$\lambda = 124^{\circ} 16'$ W. from Greenwich.

Time.--All determinations are reduced to Universal Time.

Altitude.--17 meters (55 feet) above mean sea level.

The seismograph is a Bosch-Omori 25-kgm. horizontal pendulum.

It is oriented to record E-W motion. The station is operated by Mr. Joseph Bognuda, of Ferndale, in cooperation with the University of California.

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Date	Char-acter	Phase	Time U.T.	Period	Amplitude			Remarks
					A _E mm.	A _N mm.	A _Z mm.	
1934			h. m. s.	s.				
Oct. 10	Iu	eP _E	15 53 49.0					
		iS _E	16 03 22.0					
		F	16 10					
Nov. 16	Iv	iP _E	05 36 49.0					See discussion, p.
		iS _E	05 37 06.0					
		F	05 44					
Nov. 17	Id	iP _E	17 42 01.0					See discussion, p.
		iS _E	17 42 06.5					
		F	17 45					
Nov. 18	Id	iP _E	12 42 32.0					See discussion, p.
		iS _E	12 42 32.0					
		F	12 45					
Dec. 11	Id	eP _E	06 19 29.0					See discussion, p.
		iS _E	06 19 32.6					
		F	06 21					
Dec. 15	Id	iP _E	17 00 17.0					See discussion, p.
		iS _E	17 00 18.8					
		F	17 05					
Dec. 21	Id	eP _E	16 14 13.8					See discussion, p.
		iS _E	16 14 14.7					
Dec. 30	Ir	eP _E	13 56 21.0					
		eS _E	13 58 37.0					
		F	14 15					
Dec. 31	IIr	eP _E	18 49 00.0					
		eS _E	18 52 10.0					
		F	20 00					
1935								
Jan. 2	IIId	iP _E	22 41 19.0					See discussion, p.
		iS _E	21 41 32.0					
		F	22 50					
Mar. 3	Id	eP _E	10 19 02.0					See discussion, p.
		iS _E	10 19 07.0					
		i _E	10 19 10.0					
		F	10 20					