

Richard Observatory
University of Santa Clara
Santa Clara, Calif.



January 1946.

| | | | | |
|-----|----|-------------------|----------------------------------|---------------------|
| 5. | GW | 1PZ eSE eLE | 20:09:57 20:20:22 20:35:48 | D(S-P) 84.2° 9355km |
| 7. | GW | e E ME | 15:53:03 15:54:47 | |
| 8. | GW | 1SNE | 18:57:54 | |
| 12. | GW | 1PINZ 1SIN | 20:31:27 20:36:17 | D(S-P) 28.9° 3210km |
| 13. | GW | ePZ | 16:51:58 | |
| 17. | GW | eP eLN | 9:55:41 10:13:24 | |

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February 1946.

| | | | | | |
|-----|----|----------------|----------------------|-----------|--------------------------|
| 4. | GM | 1PZ 1SINZ | 03:52:52 03:58:18 | <i>pp</i> | L(S-P) 34.1° 3790k 2355m |
| 6. | GM | 0 2 | 20:52:06 | | |
| 10. | GM | ePINZ 1SINZ | 11:01:59 11:01:54 | | D(S-P) 1.0° 110k 69m |
| 15. | GM | ePINZ eSZ | 05:20:17 05:22:50 | | D(S-P) 13.6° 1510k 940m |

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March 1946.

| | | | | |
|-------|----|---------------|----------------------|------------------------|
| ✓ 15. | GW | ePZ eLEN | 7:58:18 8:24:28 | D(P-L) 80° 8890k 5520m |
| ✓ 15. | GW | ePZ iSENZ | 13:21:58 13:22:44 | D(S-P) 3.6° 400k 250m |
| ✓ 15. | GW | ePZ iSENZ | 13:50:33 13:51:19 | D(S-P) 3.8° 420k 262m |
| ✓ 15. | GW | iPZ iSENZ | 19:19:50 19:20:34 | D(S-P) 3.6° 400k 250m |
| ✓ 15. | GW | ePZ eSENZ | 21:55:32 21:56:17 | D(S-P) 3.7° 410k 256m |
| ✓ 16. | GW | ePLENZ iSN | 9:47:23 9:48:15 | D(S-P) 4.2° 470k 294m |
| 17. | GW | ePZ iSEN | 14:46:52 14:47:34 | D(S-P) 3.4° 580k 237m |
| 18. | GW | ePZ eSN | 10:06:59 10:07:55 | D(S-P) 4.7° 520k 325m |
| 18. | GW | e(P)EZ eSE | 15:50:27 15:51:50 | |
| 24. | GW | MEZ | 16:16:02 | |
| ✓ 29. | GW | MEZ | 7:56:10 | |

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April 1946.

| | | | | |
|-------|----|--------------------------|----------------------------------|---------------------|
| ✓ 1. | GW | iPz eSN eLN | 12:35:33 12:41:23 12:43:05 | D(S-P) 37.6° 4180km |
| ✓ 1. | GW | ePz eSN | 19:04:24 19:09:51 | D(S-P) 34.3° 3810km |
| ✓ 2. | GW | ePz eSN | 4:21:29 4:26:05 | D(S-P) 35.6° 3955km |
| ✓ 2. | GW | ePz eSN eLN | 16:37:27 16:42:59 16:48:13 | D(S-P) 52.1° 3565km |
| 3. | GW | e E eLN | 8:12:18 8:16:11 | |
| 4. | GW | MN | 16:46:54 | |
| 6. | GW | ME | 5:07:53 | |
| 8. | GW | MN | 17:31:53 | |
| ✓ 11. | GW | iPz ePcSScPHN eLNH | 2:11:07 2:26:05 2:35:50 | D 77° 8555km |
| 18. | GW | ePHN MHN | 7:14:00 7:32: | |
| 22. | GW | ePz eSN | 7:42:12 7:42:22 | D(S-P) 0.8° 90km |
| 23. | GW | Mz | 6:02:24 | |
| 23. | GW | ePz Mz | 10:51:15 11:13:14 | |
| 25. | GW | iPz i E iSE | 21:50:58 21:50:41 21:50:45 | D(S-P) 0.5° 60km |
| 27. | GW | ePz eSN | 2:19:26 2:20:06 | D(S-P) 5.2° 560km |

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May 1946.

| | | | | |
|-----|----|-------|----------|---------------------|
| 2. | GW | iPENZ | 1:26:19 | |
| 3. | GW | eP'E | 22:37:29 | |
| | | eSKSE | 22:45:59 | |
| | | ePSE | 22:47:20 | D 89° 9890km |
| | | eLE | 23:04:35 | |
| 7. | GW | ePN | 4:54:13 | |
| | | e L | 4:55:06 | |
| 8. | GW | e E | 5:42:42 | |
| | | ME | 6:29:08 | |
| 8. | GW | e E | 10:09:24 | |
| | | ME | 10:29:38 | |
| 9. | GW | ePLN | 23:39:12 | |
| | | eSE | 23:43:30 | D(S-P) 17.9° 1990km |
| | | eLE | 23:43:23 | |
| 11. | GW | e L | 17:28:56 | |
| | | ME | 17:51:07 | |
| 15. | GW | ePZ | 22:17:00 | |
| | | eSE | 22:22:13 | D(S-P) 21.2° 2355km |
| | | eLE | 22:26:07 | |
| 21. | GW | iPZ | 9:26:41 | |
| | | eSN | 9:52:23 | D(S-P) 58.4° 6490km |
| | | eMN | 9:46:00 | |
| 29. | GW | ePZ | 17:51:36 | |
| | | iSINZ | 17:51:25 | D(S-P) 0.7° 80km |

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June 1946.

| | | | | |
|-----|----|---------|----------|---------------------------|
| 5. | GV | eLE | 1:34:10 | |
| 5. | GV | e IN | 22:01:02 | |
| 7. | GV | ePZ | 4:19:38 | D(S-P) 51.6° 3510km |
| | | eSIN | 4:24:47 | |
| | | eLIN | 4:29:28 | |
| 12. | GV | ePZ | 16:21:05 | |
| | | e(S)ENZ | 16:31:42 | |
| | | ME | 17:27:30 | |
| 15. | GV | e Z | 18:47:59 | |
| | | ME | 19:23:25 | |
| 23. | GV | iPIN | 17:16:24 | Strong quake in Northwest |
| 24. | GV | ePZ | 12:29:02 | |
| | | e(S)E | 12:33:04 | |
| | | eME | 12:35:19 | |
| 26. | GV | ePZ | 8:00:55 | |
| | | e(S)N | 8:06:09 | |
| | | e N | 8:10:43 | |
| 26. | GV | IN | 13:22:47 | |
| 28. | GV | MEENZ | 8:04:42 | |

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July 1946.

| | | | | |
|-----|----|---------------------|----------------------------------|--|
| 1. | GW | e E eLE | 22:00:15 22:16:22 | |
| 7. | GW | iPz iSEN | 6:56:05 6:56:41 | D(S-P) 2.9° 320km |
| 8. | GW | MEM | 18:37:29 | |
| 9. | GW | ePz eSEN eLN | 1:30:16 1:31:17 1:40:33 | D(S-P) 79.5° 8335km |
| 9. | GW | iPz eSEN MN | 13:25:16 13:36:23 13:49:09 | D(S-P) 93.6° 10400km |
| 11. | GW | ePz eSE MN | 4:57:59 4:58:46 5:05:48 | D(S-P) 57.2° 4155km |
| 13. | GW | ePz iSEN MEM | 6:10:12 6:12:54 6:15:51 | D(S-P) 14.4° 1600km |
| 13. | GW | ePEN iSEN ME | 7:19:46 7:22:45 7:23:39 | D(S-P) 14.5° 1590km |
| 13. | GW | ePEN iSEN | 14:23:46 14:51:04 | D(S-P) 6.7° 740km |
| 19. | GW | MEM | 21:51:02 | |
| 25. | GW | ePz eSE eLE | 16:50:09 16:53:50 16:59:35 | D(S-P) 42.2° 4690km |
| 26. | GW | ePz epPz eSEN | 6:56:29 6:56:45 7:06:09 | D 75° 8335 km depth 75km. No ground waves. |

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August 1946.

| | | | | |
|-----|-------|--------------------------|--|---------------------|
| 2. | GM | ME | 1:56:00 | |
| 2. | GM | ePEZ eSL eLQ | 19:30:58 19:40:58 19:56:50 | D(S-P) 79.3° 8810km |
| 4. | GM, W | iPEZ eSR eLQ | 18:00:07 18:07:18 18:13:54 | D(S-P) 50.1° 5565km |
| 5. | GM | ePHN LSHN | 4:07:55 4:08:08 | D(S-P) 0.6° 70km |
| 7. | GM | MPT | 18:48:45 | |
| 8. | GM | e H | 10:06:38 | |
| 8. | GM | iPZ LQI eLQ | 13:37:38 13:44:27 13:52:10 | D(S-P) 46.6° 5180km |
| 9. | GM | eLQ LQI | 17:40:07 17:50:59 | |
| 11. | GM | ePZ eLQ eLQ | 2:07:32 2:18:10 2:35:54 | D(S-P) 89.2° 9910km |
| 14. | GM | e LN | 21:58:24 | |
| 15. | GM | eLQ | 13:04:45 | |
| 21. | GM | iPZ LSH ML | 18:12:24 18:22:28 18:36:10 | |
| 22. | GM | ePZ e E e E eLQ | 19:26:32 19:33:38 19:37:38 19:44:20 | |
| 23. | GM | ME | 17:11:40 | |
| 24. | GM | ePZ eBN MN | 14:37:02 14:34:15 14:44:38 | D(S-P) 50.1° 5565km |
| 28. | GM | e Z eLZ | 20:18:34 20:46:15 | |
| 29. | GM | ePZ e NZ | 22:39:55 22:49:29 | |

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September 1946.

| | | | | |
|-----|----|------|----------|---------------------|
| 12. | GW | MEZ | 14:39:11 | |
| 12. | GW | ePZ | 15:36:21 | |
| | | e E | 15:42:34 | |
| | | ME | 16:12:28 | |
| 12. | GW | iPZ | 17:48:19 | |
| 13. | GW | e E | 16:41:03 | |
| | | ME | 16:42:59 | |
| 13. | GW | iPZ | 19:08:44 | |
| | | eSNZ | 19:16:29 | D(S-P) 55.6° 6180km |
| 13 | GW | ME | 19:53:51 | |
| 13 | GW | ME | 20:15:25 | |
| 14 | GW | eLEN | 6:24:46 | |
| 22 | GW | e Z | 22:04:30 | |
| | | e E | 22:32:18 | |
| 23. | GW | eI Z | 23:45:15 | |
| | | ePZ | 23:47:01 | |
| | | iPE | 23:47:52 | |
| | | eSE | 23:55:42 | |
| | | eSE | 23:56:27 | |
| | | eSE | 24:01:11 | |
| | | ME | 24:16:32 | |
| 25. | GW | iPZ | 10:14:25 | |
| | | eLN | 10:31:29 | |
| 25 | GW | ePE | 7:21:57 | |
| 29 | GW | ePZ | 3:14:54 | |
| | | eSNZ | 3:25:44 | |
| | | eLN | 3:38:35 | D(S-P) 89.6° 9955km |

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October 1946.

| | | | | |
|-----|----|------------------------------------|--|------------------------------|
| 1. | GW | ePENZ iSENI | 19:23:09 19:23:11 | D(S-P) 0.2° 25km |
| 2. | GV | ePZ eSE eLE | 4:55:59 5:03:30 5:12:12 | D(S-P) 55.3° 5920km |
| 2. | GV | ePZ eSE eLE | 6:53:05 8:00:30 7:09:40 | D(S-P) 52.7° 5855km |
| 3. | GV | eLE | 16:15:25 | |
| 4. | GV | iPZ eSENE eLENE | 14:54:20 15:01:45 15:15:52 | D(S-P) 52.0° 5780km |
| 10. | GV | MEZ | 5:05:33 | |
| 14. | GV | eSEN MENE | 5:07:55 5:27:09 | |
| 22. | GV | ePZ epPZ eSEN esSN eLN | 10:12:17 10:13:17 10:22:25 10:24:02 10:55:09 | D 88½° 9280km depth 250km |
| 30. | GV | ePz iSENE eLEN | 7:54:17 8:59:38 8:05:02 | D(S-P) 55.4° 5710km |

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November 1946.

| | | | | |
|-----|----|-----------------------------|--|-----------------------------------|
| 1. | GV | iPZ iPPZ iSEN eLEN | 11:21:57 11:23:50 11:28:56 11:31:10 | D(S- $\frac{1}{2}$) 48.2° 5355km |
| 2. | GV | ePZ e E eLE | 18:42:20 19:05:49 19:13:01 | |
| 3. | GV | ME | 20:26:12 | |
| 4. | GV | ePZ iPZ i E eLE | 22:01:48 22:05:59 22:12:52 22:40:36 | |
| 10. | GV | ePZ iSE eLE | 17:53:20 18:01:59 18:09:21 | D(S-P) 64.6° 7180km |
| 12. | GV | e E | 6:12:16 | |
| 12. | GV | e E eLE | 14:39:00 14:42:41 | |
| 13. | GV | ePE cSE eLE | 17:10:16 17:20:14 17:39:57 | D(S-P) 78.9° 8765km |
| 25. | GV | eLN | 18:16:32 | |

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December 1946.

| | | | | |
|-----|----|-------------------|----------------------------------|-----------------------------|
| 18. | GM | ePz oSN | 14:21:18 14:22:23 | D(S-P) 5.5° 615km 384mi. |
| 20. | GM | ePz eSE eLE | 19:51:02 19:41:11 19:51:24 | D(S-P) 81.0° 9000km 5590mi. |
| 21. | GM | ePz oSN eLE | 10:29:25 10:58:00 10:46:24 | D(S-P) 63.9° 7100km 4410mi. |
| 21. | GM | ePz eSN NE | 19:59:13 20:07:50 20:19:25 | D(S-P) 64.2° 7135km 4430mi. |
| 24. | GM | iPz | 01:59:01 | Felt in San Jose, Calif. |
| 24. | GM | NE | 04:44:25 | |

By John A. Weber, SJ

Automatic recording of time signals
 was interrupted this month, so there
 is no clock correction.