



LA PAZ = (Bolivia)

BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

Mes de ENERO de 1923

| Instrumentos: | Componente | Masa | To | A | c:1 | $\frac{r}{T_0^2}$ |
|--|------------|------------|-----|------|-----|-------------------|
| | | | | | | |
| } Péndulo horizontal Bifilar » » » Vertical S. Calixto | N. S. | 2,000 kgs. | 14 | 180 | 4,6 | 0,0015 |
| | E. W. | 450 » | 16 | 82 | 5,2 | 0,0017 |
| | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0019 |

| Nº. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | Distancia | NOTAS |
|-----|-----------------|----------------------------------|-------------------------|---|---------|-------------|--------------------|----|-----------|-------|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| 1 | 1923 Enero 1 | iP F | 22 | 19 28 56 - | S | S | μ | μ | Kms. | |
| 2 | 2 | eP S L M F | 8 | 30 43 32 50 34 37 35 49 50 - | | 12 | | 3 | 1190 | |
| 3 | 2 | eP | 23 | 14 43 | | | | | | |
| 4 | 2 | P L M M F | 23 | 50 31 54 36 55 13 57 30 0 20 - | 10 8 | | 3 3 | | | |
| 5 | 3 | P | 1 | 04 53 | | | | | | |
| 6 | 3 | iP S L M M L F | 9 | 44 52 47 23 49 03 49 43 51 18 52 00 10 30 - | | 8 8 6 | -6 -7 -5 | | 1450 | |
| 7 | 3 | eP | 10 | 50 37 | | | | | | |
| 8 | 4 | O eP S L M M F | 15 15 | 17 00 25 13 31 43 39 43 41 28 46 38 16 10 - | | 25 18 | 6 2 | | 4780 | |
| 9 | 4 | O iP S L M F | 16 17 | 57 02 03 23 08 25 13 48 14 48 34 - | | 10 | 2 | | 3270 | |
| 10 | 5 | P F | 18 | 10 24 22 - | | | | | | |
| 11 | 7 | P | 9 | 51 58 | | | | | | |
| 12 | 8 | P | 20 | 46 08 | | | | | | |
| 13 | 9 | P L M F | 3 | 16 32 17 52 17 58 25 - | | 3 | 11 | | | |

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|-----|-----------------|--|-------------------------|--|---------|----|--------------------|----------------|-----------|-----------|
| | | | Tiempo medio de Greenw. | | NS | EW | A _n | A _e | | |
| 14 | 1923 Enero 9 | P | 13 | 13 47 | S | S | μ | μ | Kms. | |
| 15 | 9 | iP L M M F | 17 | 00 28 01 00 01 03 01 23 10 - | | | | | 230 | |
| 16 | 10 | iP S F | 11 | 52 22 53 04 12 00 - | | | | | | |
| 17 | 12 | eP S L M M M F | 1 | 57 49 2 00 26 02 08 02 54 04 30 08 30 3 20 - | | | | | 1430 | |
| 18 | 13 | eP eS L M M F | 7 | 00 21 02 21 03 51 04 24 05 20 20 - | | | | | 1120 | |
| 19 | 13 | P eS L M M M M M F | 9 | 51 09 19 00 19 15 08 19 20 20 36 23 18 25 48 40 36 11 Ca . | | | | | 7810 | 0 9 39 58 |
| 20 | 13 | O P L M M F | 16 | 37 59 45 56 57 56 59 38 17 01 46 20 - | | | | | 4450 | |
| 21 | 14 | P | 6 | 11 19 | | | | | | |
| 22 | 14 | O P eS L M M F | 10 | 47 14 53 56 59 15 11 04 26 05 44 07 06 30 - | | | | | 3530 | |

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Mes de ENERO de 1923

| Instrumentos: | Componente | Masa | To | | | | r T ₀ ² |
|--|------------|------------|-----|------|-----|--------|----------------------------------|
| | | | A | c:1 | | | |
| } Péndulo horizontal Bifilar » » Vertical S. Calixto | N. S. | 2,000 kgs. | 14 | 180 | 4,6 | 0,0018 | |
| | E. W. | 450 » | 16 | 82 | 5,2 | 0,0017 | |
| | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 | |

| Nº. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | Distancia | NOTAS |
|-----|------------------|-----------------------------------|---|----------------|------------------|----|--------------------|------------------------|--------------|--|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| 23 | 1923 Enero 15 | eP S L F | 3 56 11 59 21 4 04 08 15 - | | S | S | μ | μ | Kms. 1850 | |
| 24 | 15 | L L M F | 10 10 56 13 56 17 00 30 - | 20 15 14 | | | 3 2 | | | P perdido por esta cerrado el circuit electrico. |
| 25 | 16 | P iS L M F | 12 52 50 54 03 55 00 55 24 13 05 - | | | | 5 | 2,5 | | |
| 26 | 17 | P | 8 09 00 | | | | | | | |
| 27 | 17 | eP L M F | 8 47 14 55 39 57 32 9 20 - | | 8 | | | 2 | | |
| 28 | 17 | P S L M M F | 15 06 08 08 41 10 18 11 12 12 10 30 - | 10 6 | | | 4 3 | | 1460. | |
| 29 | 20 | P | 1 11 08 | | | | | | | |
| 30 | 20 | P | 19 31 04 | | | | | | | |
| 31 | 20 | iP iS L L M L F | 21 39 47 42 23 44 00 45 06 46 10 47 18 23 Ca. | | 9 7 8 8 | | | -9 -9 +14 + 9 | 1490 | |
| 32 | 21 | P | 9 50 30 | | | | | | | |
| 33 | 21 | iF | 17 24 05 | | | | | | | |
| 34 | 21 | P | 21 13 50 | | | | | | | |
| 35 | 22 | O P iS L L F | 0 55 38 1 03 11 10 41 39 56 45 14 2 20 - | 30 | | | 27 18 | 11 3 | 9400 | |

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| Instrumentos: | Componente | Masa | To | A | c:1 | $\frac{r}{T_0^2}$ |
|-----------------------|------------|---------|-----|------|-----|-------------------|
| | | | | | | |
| » » | E. W. | 450 » | 16 | 82 | 5,2 | 0,0017 |
| » Vertical S. Calixto | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| Nº. | Día | Fases | Hora | | Período | | Amplitud verdadera | | Distancia | NOTAS |
|-----|------------------|--|---|--------|---------|------------|--------------------|--------------|-----------|-------|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| 36 | 1923 Enero 22 | O iP iS L M M M M M M M F | 9 04 35 9 16 21 26 01 39 32 44 29 45 36 49 24 52 20 58 56 10 10 32 20 14 11 30 - | S S | S | μ | μ | Kms. 8400 | | |
| 37 | 22 | P | 15 34 02 | | | | | | | |
| 38 | 23 | P | 3 16 56 | | | | | | | |
| 39 | 23 | P | 14 15 56 | | | | | | | |
| 40 | 23 | P | 17 07 56 | | | | | | | |
| 41 | 26 | P F | 3 43 06 55 - | | | | | | | |
| 42 | 26 | P | 9 41 21 | | | | | | | |
| | 26 | P | 15 49 16 | | | | | | | |
| 44 | 26 | eP F | 20 26 06 40 - | | | | | | | |
| 45 | 26 | O P S eLN E F | 21 35 24 21 46 31 55 37 22 08 36 12 26 36 - | | 16 | 2 | | 7730 | | |
| 46 | 27 | iP | 6 23 19 | | | | | | | |
| 47 | 27 | iP L M M F | 9 17 28 18 16 18 26 19 16 40 - | | 5 10 | +33 - 8 | | | | |
| 48 | 29 | iP L M F | 1 33 09 34 00 34 06 50 - | | 2 | -27 | | | | |
| 49 | 29 | P F | 10 05 48 10 - | | | | | | | |
| 50 | 29 | P | 17 50 06 | | | | | | | |

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|--|------------|------------|-----|--|------|-----|-------------------------------|
| | | | | | | | |
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| | NS y EW | 1,500 » | 2,4 | | 1100 | 2 | 0,0012 |

| Nº. | 1923 Día | Fasps | HORA | | | Período | | Amplitud verdadera | | Distancia Kms. | NOTAS |
|--------------------------------|-------------------|--|------|---|---|---------|----|--------------------|----------|--|-------|
| | | | 18 | 15 | 53 | NS | EW | AN | AE | | |
| 51 | 29 | P | 18 | 15 | 53 | | | | | | |
| 52 | 30 | P L M F | 4 | 01 02 02 14 | 03 26 46 - | S 8 | S | μ 2 | μ | | |
| 53 | 30 | P L E F | 19 | 43 44 44 55 | 59 51 56 - | | | | 2,5 | | |
| 54 | 31 | P L M M F | 12 | 21 23 24 25 35 | 36 41 26 26 - | | | | 2,5 2 | | |
| 55 | 31 | P | 18 | 45 | 41 | | | | | | |
| <u>F E B R E R O 1 9 2 3</u> | | | | | | | | | | | |
| 56 | 1923 Febrero 1 | O eP iS L M M M F | 19 | 29 42 54 14 17 21 22 21 | 39 55 06 00 25 10 30 - | | | | | 10290 | |
| 57 | 2 | eP 22 eS L M M M F | 1 | 26 38 39 09 12 28 38 40 4 | 41 39 20 55 24 31 30 06 Ca. | | | | | 122502 02 300522 13480 0 1 09 34 S 1 40 00 | |
| 58 | 2 | iP | 2 | 59 | 28 | | | | | | |
| Fin confundido con el anterior | | | | | | | | | | | |
| 59 | 2 | iP i S L M M M M M M F | 5 | 26 38 40 6 12 22 24 26 29 47 7 19 9 | 55 27 35 28 13 20 12 40 36 40 54 48 Ca. | | | | | 14800 | |
| | | | | | | 38 | | -56 | | | |
| | | | | | | 25 | | -20 | | | |
| | | | | | | 27 | | -18 | | | |
| | | | | | | 23 | | +25 | | | |
| | | | | | | 23 | | -18 | | | |
| | | | | | | 20 | | -21 | | | |
| | | | | | | 20 | | -20 | | | |
| | | | | | | 20 | | -16 | | | |
| | | | | | | 20 | | -14 | | | |

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|---|------------|------------|-----|------|-----|-----------------------------|
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|-----|-----------------|---|-------------------------|---------|---------|-----|--------------------|------|-----------|-------|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| | | | | | S | S | μ | μ | Kms. | |
| 60 | 1923 Febrero | 1P | 15 | 48 50 | | | | | | |
| | | L | | 49 24 | | | | | | |
| | | L | | 49 28 | | | | | | |
| | | H | | 50 24 | | | | | | |
| | | F | 16 | 10 - | | | | | | |
| | 3 | P | 5 | 44 52 | | | | | | |
| | | F | 6 | 07 - | | | | | | |
| 62 | 3 | P | 16 | 20 46 | | | | | | |
| | | 1 | | 22 48 | 12 | | + 6 | | | |
| | | PR ₁ | | 24 53 | 11 | | + 9 | | | |
| | | PR ₂ | | 28 17 | 15 | | -16 | | | |
| | | S | | 33 38 | 15 | | | | | |
| | | SR ₁ | | 39 53 | 23 | -35 | -430 | | | |
| | | SR ₂ | | 43 43 | 29 | -56 | | | | |
| | | LM | | 56 38 | 41 | | -1376 | | | |
| | | LE | | 56 54 | | 42 | | | | |
| | | M | | 58 24 | 44 | | | | | |
| | | M | | 59 00 | | 40 | | 1211 | | |
| | | M | 17 | 04 50 | 33 | | -765 | | | |
| | | M | | 06 06 | | 27 | | 546 | | |
| | | M | | 06 30 | 25 | | -544 | | | |
| | | M | | 08 30 | | 26 | | -446 | | |
| | | M | | 13 12 | 26 | | -646 | | | |
| | | M | | 15 00 | | 21 | | +392 | | |
| | | M | | 18 42 | 24 | | +392 | | | |
| | | M | | 19 00 | | 21 | | -449 | | |
| | | M | | 21 12 | 22 | | -954 | | | |
| | | M | | 23 36 | | 18 | | -196 | | |
| | | M | | 24 06 | 20 | | -763 | | | |
| | | M | | 26 18 | 20 | | -310 | | | |
| | | M | | 28 30 | 20 | | +357 | | | |
| | | M | | 28 54 | | 26 | | +315 | | |
| | | L | | 35 42 | 16 | | - 97 | | | |
| | | L | | 41 24 | 60 | | +1473 | | | |
| | | M | | 45 10 | 18 | | - 95 | | | |
| | | M | | 49 06 | 17 | | + 68 | | | |
| | | M | | 53 34 | 20 | | - 83 | | | |
| | | M | | 58 28 | 20 | | +101 | | | |
| | | E | 18 | 17 54 | 18 | | + 73 | | | |
| | | Lrep. | 20 | 18 54 | 16 | -60 | | | | |
| | | F | | 27 30 | 18 | | -10 | | | |
| | | F | | 21 50 - | | | | | | |
| 63 | 3 | P | 16 | 32 55 | | | | | | |
| | | Las demas fases mezcladas con el anterior. | | | | | | | | |
| 64 | 3 | P | 17 | 00 25 | | | | | | |
| | | L | | 41 24 | 60 | | +1473 | | | |
| | | M | | 45 20 | 18 | | - 95 | | | |
| | | Las demas fases mezcladas con terremoto anterior. | | | | | | | | |



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| | | N. S. | 2,000 kgs. | 14 | 180 | 4,6 | 0,0015 |
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| » Vertical S. Calixto | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 | |

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|-----|-----|--|-------------------------|----|---------|----|--------------------|----|-----------|-------------------|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| 65 | 3 | 1923 Febrero | | | S | S | μ | μ | Kms. | |
| | | P | 18 00 21 | | | | | | | |
| | | L | 38 00 | | | | | | | |
| | | Las demas fases confundidas con el N° 62 | | | | | | | | |
| 66 | 3 | P | 19 02 15 | | | | | | | |
| | | L | 39 15 | | | | | | | |
| | | Las demas fases confundidas con el N° 62 | | | | | | | | |
| 67 | 4 | P | 1 01 11 | | | | | | | |
| 68 | 4 | P | 8 46 55 | | | | | | | |
| 69 | 4 | eP | 9 58 45 | | | | | | | |
| | | F | 10 08 - | | | | | | | |
| 70 | 4 | eP | 15 50 21 | | | | | | 1780 | 0 15 46 23 |
| | | iS | 53 24 | | | | | | | |
| | | L | 55 00 | | | | | | | |
| | | M | 55 45 | 8 | | | 2 | | | |
| | | M | 56 50 | 7 | | | 2,5 | | | |
| | | F | 16 10 - | | | | | | | |
| 71 | 5 | P | 0 18 45 | | | | | | | |
| | | F | 30 - | | | | | | | |
| | 5 | P | 9 33 55 | | | | | | | |
| 73 | 5 | P | 10 19 25 | | | | | | | |
| 74 | 6 | iP | 0 46 32 | | | | | | 2240 | 0 0 41 53 |
| | | iS | 50 15 | | | | | | | Probablemente |
| | | L | 52 12 | | | | | | | Quito Ecuador. |
| | | L | 54 30 | 10 | | | - 9 | | | |
| | | M | 55 00 | 9 | | | - 6 | | | |
| | | F | 1 30 - | | | | | | | |
| 75 | 6 | eP | 13 49 00 | | | | | | | |
| 76 | 8 | iP | 0 42 00 | 3 | | | 2 | | 5080 | 0 0 33 26 |
| | | S | 48 45 | 8 | | | 2,5 | | 5350 | 0 0 33 09 |
| | | iS | 49 00 | | | | | | | |
| | | L | 55 54 | | | | | | | |
| | | M | 59 18 | 20 | | | 6 | | | |
| | | M | 01 18 | 19 | | | 4 | | | |
| | | F | 40 - | | | | | | | |
| 77 | 8 | P | 14 18 55 | | | | | | 4960 | 0 14 10 30 |
| | | eS | 25 35 | | | | | | | Fases muy débiles |
| | | L | 32 55 | | | | | | | |
| | | M | 38 10 | 15 | | | 2 | | | |
| | | M | 47 20 | 20 | | | 2 | | | |
| | | F | 15 10 - | | | | | | | |



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|--|------------|------------|-----|--|------|--|-----|--|-------------------------------|--|
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|----------------------------------|-----|--|--|--|---------|----------------------|--------------------|----------------------|-----------|-------|
| | | | Timepo medio de Greenw. | | NS | EW | AN | AE | | |
| 78 | 8 | O P L M M M F | 21 57 09 22 03 45 12 20 15 00 16 28 18 00 50 " | | s | s | μ | μ | Kms. | 3450 |
| 79 | 9 | P | 1 41 28 | | | | | | | |
| 80 | 9 | P | 4 38 55 | | | | | | | |
| 81 | 9 | P | 19 52 55 | | | | | | | |
| 82 | 10 | P S L L F | 0 42 57 44 39 1 5 30 46 30 1 05 - | | | 10 | | 4 | | |
| 83 | 10 | er? L L M F | 8 22 10 31 00 33 24 35 30 9 18 - | | | 11 10 | | 2 2 | | |
| 84 | 11 | P P es L M M M F | 22 46 06 23 04 50 18 50 45 55 0 01 20 05 00 06 24 | | | 22 23 20 | | 5 5 4,5 | 1550 | |
| Fin confundido con el siguiente. | | | | | | | | | | |
| 85 | 12 | O P S L L M M M F | 25 28 55 0 06 16 12 05 16 06 17 45 19 18 20 30 22 14 1 20 - | | | 15 8 10 8 | | 5 8 5 4,5 | 4040 | |
| 86 | 12 | O? F S? el M M M M F | 2 01 01 2 17 40 3 30 15 3 03 54 09 54 15 18 17 18 25 10 4 20 - | | | 25 20 20 19 | | 7 4,5 4,5 4 | | |



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| | | | Timepo medio de Greenw. | | NS | EW | AN | AC | | |
| | 1923 | | | | S | S | μ | μ | Kms. | |
| 87 | 12 Febr. | P | 12 48 43 | | | | | | | |
| 88 | 12 | P | 14 27 25 | | | | | | | |
| 89 | 12 | P | 20 56 50 | | | | | | 1350 | |
| | | S | 59 13 | | | | | | | |
| | | L | 21 00 35 | | | 8 | 3 | | | |
| | | M | 01 05 | | | 7 | 2 | | | |
| | | M | 01 36 | | | | | | | |
| | | F | 25 - | | | | | | | |
| 90 | 13 | P | 16 58 30 | | | | | | | |
| 91 | 14 | P | 5 02 30 | | | | | | 820 | |
| | | 13 | 04 00 | | | | | | | |
| | | L | 04 45 | | | 7 | -9 | | | |
| | | M | 04 56 | | | 8 | + 14 | | | |
| | | M | 06 08 | | | | | | | |
| | | F | 50 - | | | | | | | |
| 92 | 14 | P | 5 45 31 | | | | | | | |
| 93 | 15 | P | 10 02 40 | | | | | | 7910 | 0 9 51 24 |
| | | es | 11 11 55 | | | | | | | |
| | | L | 28 24 | | | 20 | 3 | | | |
| | | M | 32 12 | | | | | | | |
| | | F | 50 - | | | | | | | |
| 94 | 15 | 14 | 18 40 24 | | | | | | 1460 | |
| | | S | 42 57 | | | | | | | |
| | | L | 44 27 | | | | | | | |
| | | M | 45 50 | | | 5 | -15 | | | |
| | | F | 19 40 - | | | | | | | |
| 95 | 16 | P | 0 27 45 | | | | | | | |
| 96 | 16 | P | 9 35 35 | | | | | | | |
| | | es? | 50 05 | | | | | | | S y L muy débiles |
| | | L | 10 27 56 | | | 25 | 4 | | | |
| | | M | 35 56 | | | | | | | |
| | | F | 11 00 - | | | | | | | |
| 97 | 16 | P | 21 46 45 | | | | | | | |
| 98 | 17 | P | 20 25 55 | | | | | | | |
| 99 | 18 | P | 2 00 26 | | | | | | | |
| 100 | 18 | P | 15 37 56 | | | | | | | |
| 101 | 18 | P | 16 20 56 | | | | | | | |
| 102 | 19 | P | 6 36 40 | | | | | | | |
| 103 | 20 | P | 3 31 46 | | | | | | | |

LA PAZ = (Bolivia)

BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

Mes de FEBRERO de 1923

| Instrumentos: | Componente | Masa | To | A | c:1 | $\frac{r}{T_0^2}$ |
|-----------------------|------------|---------|----------------------------|-------|------------|-------------------|
| | | | Péndulo horizontal Bifilar | N. S. | 2,000 kgs. | 14 |
| » » | E. W. | 450 » | 16 | 82 | 3,2 | 0,0017 |
| » Vertical S. Calixto | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| Nº. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | Distancia | NOTAS |
|-----|------|-----------|-------------------------|----|---------|----|--------------------|----|-----------|---|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| | 1923 | | | | | | | | | |
| 104 | 20 | Febrero P | 6 29 26 | | S | S | μ | μ | Kms. | |
| 105 | 21 | P | 4 17 38 | | | | | | | |
| 106 | 23 | P | 0 25 30 | | | | | | | |
| 107 | 23 | 1P | 6 12 00 | 4 | | | 2,5 | | | |
| | | S | 26 18 | 12 | | | 2 | | | |
| | | L | 7 07 00 | | | | | | | |
| | | M | 16 06 | 25 | | | 6 | | | |
| | | M | 21 14 | 25 | | | 6 | | | |
| | | M | 25 06 | 25 | | | 5 | | | |
| | | M | 28 14 | 22 | | | 5 | | | |
| | | F | 8 20 - | | | | | | | |
| 108 | 23 | P 8 | 21 56 | | | | | | | |
| 109 | 23 | P | 13 47 26 | | | | | | | |
| 110 | 24 | P | 0 16 56 | | | | | | | |
| 111 | 24 | P | 0 34 48 | | | | | | | |
| 112 | 24 | O | 7 33 59 | | | | | | 16800 | |
| | | P | 7 54 06 | | | | | | | |
| | | S | 8 08 15 | | | | | | | |
| | | L | 40 00 | | | | | | | |
| | | M | 46 46 | 22 | | | 5 | | | |
| | | M | 50 30 | 20 | | | 7 | | | |
| | | M | 53 48 | 22 | | | 7 | | | |
| | | M | 55 12 | 22 | | | 6 | | | |
| | | M | 57 12 | 18 | | | 3,5 | | | |
| | | M | 58 14 | 18 | | | 6 | | | |
| | | M | 9 06 06 | 16 | | | 3 | | | |
| | | F | 10 20 | | | | | | | |
| 113 | 24 | P | 8 08 08 | | | | | | | Las demas fases mezcladas con el anterior |
| 114 | 25 | 1P | 2 28 01 | | | | | | | |
| | | S | 30 32 | | | | | | | |
| | | L | 33 00 | | | | | | | |
| | | M | 33 14 | 6 | | | 5 | | | |
| | | M | 33 54 | 12 | | | 4 | | | |
| | | F | 3 Ca . | | | | | | | |
| 115 | 25 | P | 4 38 32 | | | | | | | |
| | | F | 50 - | | | | | | | |
| 116 | 25 | P | 8 55 06 | | | | | | | |
| 117 | 25 | eP | 14 32 30 | | | | | | | |
| 118 | 25 | P | 15 21 52 | | | | | | | |
| 119 | 28 | 1P | 10 55 55 | | | | | | | |
| | | L | 57 20 | 3 | | | 5 | | | |
| | | M | 57 40 | 2 | | | 4 | | | |
| | | F | 11 10 - | | | | | | | |



LA PAZ = (Bolivia)

BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

Mes de FEBRERO de 1923

| Instrumentos: | Péndulo horizontal Bifilar | Componente | Masa | To | h | :1 | $\frac{r}{T_0^2}$ |
|---------------|----------------------------|------------|------------|-----|------|-----|-------------------|
| | | N. S. | 2,000 kgs. | 14 | 180 | 4,0 | 0,0018 |
| » | » | E. W. | 450 » | 16 | 88 | 5,2 | 0,0017 |
| » | Vertical S. Calixto | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| Nº. | Dia | Fases | HORA | | Período | | Amplitud verdadera | | Distancia | NOTAS |
|-----|-----------------|-------|-------------------------|----|---------|----|--------------------|----|-----------|--|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| 120 | 1923 1 Marzo | IP | 6 00 56 | | S | S | μ | μ | Kms. | |
| 121 | 1 | P | 18 12 16 | | | | | | | |
| 122 | 2 | IP | 17 09 10 | | | | | | | |
| | | PR | 13 55 | | | | | | | |
| | | S | 23 39 | | | | | | | |
| | | SR | 33 45 | 20 | | | 9 | | | |
| | | L | 18 07 00 | | | | | | | |
| | | M | 13 40 | 22 | | | 6 | | | |
| | | M | 16 22 | 20 | | | 3 | | | |
| | | M | 19 20 | 18 | | | 4 | | | |
| | | M | 22 36 | 18 | | | 7,5 | | | |
| | | M | 27 50 | 25 | | | 15 | | | |
| | | M | 41 00 | 25 | | | 8 | | | |
| | | H | 43 45 | 20 | | | 5 | | | |
| | | F | 19 20 - | | | | | | | |
| 123 | 3 | P | 6 33 55 | | | | | | | |
| 124 | 3 | P | 20 00 50 | | | | | | | |
| 124 | 3 | F | 20 - | | | | | | | |
| 125 | 3 | P | 22 12 45 | | | | | | | |
| 126 | 4 | O | 0 07 12 | | | | | | | |
| | | P | 0 17 55 | | | | | | 7280 | ± 5 ^s por falta de señales horari |
| | | eS | 26 38 | | | | | | | |
| | | L | 33 00 | | | | | | | |
| | | M | 41 00 | 10 | | | 4 | | | |
| | | M | 43 06 | 9 | | | 3 | | | |
| | | M | 45 08 | 12 | | | 3 | | | |
| | | M | 48 06 | 8 | | | 2 | | | |
| | | F | 2 15 - | | | | | | | |
| 127 | 4 | e | 7 09 25 | | | | | | | Fases muy debiles |
| | | S? | 18 32 | | | | | | | |
| | | L | 41 56 | | | | | | | |
| | | L | 8 12 24 | | | | | | | |
| | | F | 30 - | | | | | | | |
| 128 | 4 | P | 12 41 56 | | | | | | | |
| 129 | 6 | P | 11 08 01 | | | | | | | |
| 130 | 8 | P | 21 30 51 | | | | | | | |
| 131 | 8 | P | 22 14 00 | | | | | | | |
| | | S? | 18 02 | | | | | | | |
| | | F | 30 - | | | | | | | |
| 132 | 9 | P | 19 52 40 | | | | | | | |
| | | F | 20 10 - | | | | | | | |

LA PAZ = (Bolivia)

BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

 Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

 Mes de MARZO de 1923

| Instrumentos: | Péndulo horizontal Bifilar | Componente | Masa | To | A | : 1 | $\frac{r}{T_0^2}$ |
|---------------|----------------------------|------------|------------|-----|------|-----|-------------------|
| | | N. S. | 2,000 kgs. | 14 | 180 | 4,8 | 0,0018 |
| " " | " " | E. W. | 450 " | 18 | 82 | 5,2 | 0,0017 |
| " " | Vertical S. Calixto | NS y EW | 1,500 " | 2,4 | 1100 | 2 | 0,0012 |

| Nº. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | Distancia | NOTAS |
|-----|-------------------------|-------|-------------------------|-------|---------|----|--------------------|----------------|-----------|--------------------------------|
| | | | Tiempo medio de Greenw. | | NS | EW | A _N | A _E | | |
| 133 | 9 ¹⁹²³ marzo | P | 22 | 59 25 | S | S | μ | μ | Kms. | |
| | | L | 23 | 02 25 | | | | | | |
| | | M | | 02 50 | 5 | | + 5 | | | |
| | | M | | 15 40 | 5 | | + 5 | | | |
| | | F | | 30 - | | | | | | |
| 134 | 10 | P | 23 | 29 49 | | | | | | |
| 135 | 11 | P | 0 | 32 53 | | | | | | |
| 136 | 11 | P | 19 | 47 33 | | | | | | |
| 137 | 13 | P | 23 | 38 59 | | | | | | |
| 138 | 14 | iP | 8 | 56 32 | | | | | | Pequeña sacudida local. |
| 139 | 14 | P | 21 | 04 14 | | | | | | Fuertes barosismos 13, 14, 15. |
| | | S? | | 17 46 | | | | | | |
| | | L | 22 | 02 46 | | | | | | |
| | | F | | 30 - | | | | | | |
| 140 | 15 | O | 5 | 55 59 | | | | | 11530 | |
| | | iP | 6 | 10 13 | | | | | | |
| | | i | | 18 18 | | | | | | |
| | | S | | 22 16 | | | | | | |
| | | m | | 31 18 | 15 | | 3 | | | No aparece ni L ni E. |
| | | F | 7 | 12 - | | | | | | |
| 141 | 15 | i(P) | 6 | 19 58 | | | | | | Parece otro terremoto. |
| 142 | 15 | P | 11 | 41 36 | | | | | | |
| | | L | | 43 33 | | | | | | |
| | | M | | 43 52 | 2 | | +12 | | | |
| | | M | | 45 00 | 6 | | 5 | | | |
| | | F | 12 | 06 - | | | | | | |
| 143 | 15 | P | 22 | 15 35 | | | | | | |
| 144 | 15 | P | 23 | 04 58 | | | | | | |
| 145 | 16 | F | 14 | 41 33 | | | | | | |
| 146 | 16 | iP | 15 | 31 12 | | | | | | |
| | | L | | 32 00 | | | | | | |
| | | M | | 32 06 | 5 | | -13 | | | |
| | | M | | 32 36 | 5 | | +16 | | | |
| | | F | | 50 - | | | | | | |
| 147 | 16 | P | 16 | 41 38 | | | | | | |

LA PAZ = (Bolivia)

BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

 Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

 Mes de MARZO de 1923

| Instrumentos: | Componente | Masa | To | | A | | c:1 | | r | |
|------------------------------|-----------------------|------------|---------|-----|------|--------|--------|--|---|--|
| | | | | | | | | | | |
| } Péndulo horizontal Bifilar | N. S. | 2,000 kgs. | 14 | 180 | 4,6 | 0,0018 | | | | |
| | » » | E. W. | 450 » | 16 | 62 | 3,6 | 0,0017 | | | |
| | » Vertical S. Calixto | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 | | | |

| Nº. | Día | Fases | Hora | | Período | | Amplitud verdadera | | Distancia | NOTAS |
|-----|-----|---------------|-------------------------|----------|---------|----|--------------------|------|-----------|--|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| | | | | | S | S | μ | μ | Kms. | |
| 148 | 16 | 1923 Marzo | P | 22 21 49 | | | | | | ± 5 ^s por falta de señales horarias. |
| | | | PR | 27 30 | | | | | | |
| | | | •S? | 36 38 | | | | | | |
| | | | SR | 46 28 | | | | | | |
| | | | L | 23 21 00 | 23 | | 6 | | | |
| | | | M | 25 33 | 23 | | 6 | | | |
| | | | M | 30 38 | 22 | | 5 | | | |
| | | | M | 33 06 | 20 | | 4 | | | |
| | | | M | 53 06 | 18 | | | | | |
| | | | F | 0 30 - | | | | | | |
| 149 | 17 | | O | 21 55 59 | | | | | 1220 | |
| | | | P | 21 58 38 | | | | | | |
| | | | S | 22 00 48 | | | | | | |
| | | | L | 01 43 | | | | | | |
| | | | H | 02 21 | 4 | | 5 | | | |
| | | | M | 03 28 | 7 | | 4 | | | |
| | | | F | 20 - | | | | | | |
| 150 | 19 | | P | 10 25 48 | | | | | 3060 | |
| | | | L | 27 10 | | | | | | |
| | | | H | 27 24 | 2 | | 5,5 | | | |
| | | | M | 27 36 | 3 | | 5 | | | |
| | | | F | 40 - | | | | | | |
| 151 | 19 | | O | 11 13 01 | | | | | | |
| | | | IP | 11 19 03 | | | | | | |
| | | | IS | 23 50 | | | | | | |
| | | | L | 27 00 | | | | | | |
| | | | M | 28 12 | 25 | | -35 | | | |
| | | | M | 30 00 | 19 | | +16 | | | |
| | | | M | 32 06 | 11 | | -9 | | | |
| | | | H | 34 08 | 10 | | -8 | | | |
| | | | F | 12 Ca - | | | | | | |
| 152 | 20 | | P | 8 10 14 | | | | | | |
| 153 | 20 | | P | 13 43 29 | | | | | | |
| 154 | 21 | | P | 19 00 54 | | | | | | |
| 155 | 22 | | P | 8 06 21 | | | | | | |
| 156 | 22 | | P | 11 47 10 | | | | | | |
| | | | L | 47 55 | | | | | | |
| | | | M | 48 40 | 5 | | 5 | | | |
| | | | F | 12 Ca . | | | | | | |
| 157 | 23 | | P | 15 45 29 | | | | 1080 | | |
| | | | S | 47 25 | | | | | | |
| | | | L | 48 20 | | | | | | |
| | | | M | 49 00 | 4 | | 5 | | | |
| | | | M | 51 24 | 5 | | 5 | | | |
| | | | F | 16 Ca . | | | | | | |



LA PAZ = (Bolivia)

BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4^h 32^m 33^s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

Mes de MARZO de 1923

| Instrumentos: | Componente | Masa | To | | R | | c:1 | |
|------------------------------|-----------------------|------------|---------|------|-----|--------|-----|--|
| | | | 14 | 180 | 4,6 | r | | |
| } Péndulo horizontal Bifilar | N. S. | 2,000 kgs. | 16 | 82 | 3,6 | 0,0017 | | |
| | E. W. | 450 » | 2,4 | 1100 | 2 | 0,0012 | | |
| | » Vertical S. Calixto | NS y EW | 1,500 » | | | | | |

| Nº. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | Distancia | NOTAS |
|--------------------------|--------------------------|-------|-------------------------|----|---------|----|--------------------|----|-----------|---|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| 158 | 24 ¹⁹²³ Marzo | P | 3 18 46 | | S | S | μ | μ | Kms. | |
| 159 | 24 | P | 13 00 23 | | | | | | | |
| | | S | 14 38 | | | | | | | |
| | | LE | 53 00 | | | | | | | |
| | | LH | 55 00 | 59 | | | | | | |
| | | 14 | 00 50 | 40 | | | 21 | | | |
| | | H | 05 06 | 35 | | | 19 | | | |
| | | H | 07 46 | 28 | | | 17 | | | |
| | | M | 10 10 | 30 | 30 | | 14 | | | |
| | | M | 13 20 | 32 | | | 26 | | | |
| | | M | 16 30 | 23 | 21 | | 12 | | | |
| | | M | 20 56 | 25 | | | 15 | | | |
| | | M | 30 00 | 20 | | | 6 | | | |
| | | F | 15 20 - | | | | | | | |
| 160 | 24 | OP | 21 08 31 | | | | | | | |
| 161 | 25 | 1P | 7 35 52 | | | | | | | |
| | | L2 | 36 28 | | | | | | | |
| | | M | 36 30 | 3 | | | + 5 | | | |
| | | M | 36 45 | 3 | | | 2 | | | |
| | | F | 46 - | | | | | | | |
| 162 | 28 | P | 4 48 24 | | | | | | | |
| | | S? | 59 19 | | | | | | | |
| | | L? | 5 18 00 | | | | | | | |
| | | F | 34 - | | | | | | | 9940? Los barosismos y lo débil de las fas dificulta la interpretación. |
| 163 | 28 | P | 20 49 04 | | | | | | | |
| 164 | 30 | P | 14 43 32 | | | | | | | |
| | | L | 44 14 | | | | | | | |
| | | M | 44 36 | | | | | | | |
| | | F | 55 - | | | | | | | |
| 165 | 31 | 1P | 18 53 16 | | | | | | | |
| <u>A B R I L 1 9 2 3</u> | | | | | | | | | | |
| 166 | 1 ¹⁹²³ Abril | P | 4 37 32 | | | | | | | |
| 167 | 1 | P | 6 59 02 | | | | | | | |
| | | S | 7 01 27 | | | | | | | |
| | | L | 02 47 | | | | | | | |
| | | M | 03 18 | 5 | | | 2,5 | | | |
| | | F | 15 - | | | | | | | |
| 168 | 1 | F | 8 21 19 | | | | | | | |
| 169 | 1 | P | 8 51 07 | | | | | | | |
| 170 | 3 | P | 19 26 59 | | | | | | | |
| 171 | 6 | P | 1 04 32 | | | | | | | |

LA PAZ = (Bolivia)

BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

Mes de ABRIL de 1923

| Instrumentos: | Péndulo horizontal Bifilar | Componente | Masa | To | h | c:1 | r/T ₀ ² |
|---------------|----------------------------|------------|------------|-----|------|-----|-------------------------------|
| | | N. S. | 2,000 kgs. | 14 | 180 | 4,0 | 0,0015 |
| » | » | E. W. | 450 » | 18 | 82 | 3,6 | 0,0017 |
| » | Vertical S. Calixto | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| Nº. | Día | Fases | HORA | | Período | | Amplitud verdadera | | Distancia | NOTAS |
|-----|-----|----------------|---|--|---------|----|----------------------|-------------------|-----------|-------------|
| | | | Tiempo medio de Greenw. | | NS | EW | A _N | A _E | | |
| 172 | 6 | 1923 Abr 11 | P | 8 17 55 | S | S | μ | μ | Kms. | |
| 173 | 9 | | P S L M F | 19 25 46 26 59 27 41 27 54 35 - | | | | 5 | 2,5 | |
| 174 | 10 | | P L M F | 5 47 43 48 09 48 13 55 - | | 1 | | | 5,5 | |
| 175 | 10 | | P | 7 14 00 | | | | | | |
| 176 | 12 | | P F | 7 29 18 33 - | | | | | | |
| 177 | 12 | | F | 15 56 07 | | | | | | |
| 178 | 12 | | F | 17 24 11 | | | | | | |
| 179 | 13 | | P | 2 46 57 | | | | | | |
| 180 | 13 | | eP S? L? F | 10 19 17 26 57 32 00 50 - | | | | | 6080? | 0? 10 09 42 |
| 181 | 13 | | P eS L M M M L F | 15 50 02 16 03 38 37 02 44 15 46 00 50 00 51 18 18 20 - | | | 22 27 23 22 | 6 14 6 6 | 145800 | 0 15 32 17 |
| 182 | 13 | | 1P L M F | 17 31 57 32 32 32 40 40 - | | 1 | | | 11 | |
| 183 | 14 | | P | 20 08 52 | | | | | | |
| 184 | 18 | | eP? L F | 9 26 59 10 02 05 20 - | | | | | | |
| 185 | 19 | | 1P PR eS SR L ^E L ^M M | 3 29 16 35 43 43 34 51 19 4 22 - 22 00 31 40 | | | 9 15 55 35 | 40 16 | | |



LA PAZ = (Bolivia)

BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

Mes de ABRIL de 1923

| Instrumentos: | Péndulo horizontal Bifilar | Componente | Masa | To | A | c:1 | $\frac{r}{T_0^2}$ |
|---------------|----------------------------|------------|------------|-----|------|-----|-------------------|
| | | N. S. | 2,000 kgs. | 14 | 180 | 4,6 | 0,0018 |
| " | " | E. W. | 450 " | 18 | 82 | 3,6 | 0,0017 |
| " | Vertical S. Calixto | NS y EW | 1,500 " | 2,4 | 1100 | 2 | 0,0012 |

| Nº. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | Distancia | NOTAS |
|-----|----------|----------|--------------------------|-------|---------|----|--------------------|----|-----------|---------------|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| | 1923 | | | | s | s | μ | μ | Kms. | |
| 185 | 19 Abril | continua | Vease la pagina anterior | | | | | | | |
| | | L | 4 | 39 05 | 23 | | 10 | | | |
| | | L | | 46 15 | 27 | | 11 | | | |
| | | M | | 50 00 | 25 | | 12 | | | |
| | | M | | 54 36 | 25 | | 8 | | | |
| | | M | | 57 18 | 27 | | 9 | | | |
| | | M | 5 | 03 54 | 22 | | 6 | | | |
| | | M | | 10 18 | 17 | | 3 | | | |
| | | M | | 13 20 | 20 | | 3 | | | |
| | | F | | 50 - | | | | | | |
| 186 | 20 | P | 13 | 29 31 | | | | | | |
| 187 | 20 | P | 14 | 41 46 | | | | | | |
| 188 | 21 | iP | 2 | 37 55 | 2 | | +5,5 | | | |
| | | iS | | 38 36 | 4 | | -51 | | | |
| | | L | | 38 49 | | | | | | |
| | | M | | 38 53 | 4 | | - 26 | | | |
| | | M | | 40 50 | 5 | | + 25 | | | |
| | | F | 3 | 10 - | | | | | | |
| 189 | 21 | P | 7 | 07 49 | | | | | | |
| 190 | 21 | P | 7 | 44 07 | | | | | | |
| 191 | 21 | P | 11 | 38 57 | | | | | | Temblor local |
| 192 | 21 | P | 17 | 16 08 | | | | | | |
| | | S | | 18 52 | | | | | | |
| | | L | | 20 18 | 12 | | 4 | | | |
| | | M | | 21 28 | 11 | | 4 | | | |
| | | M | | 22 00 | | | | | | |
| | | F | | 40 - | | | | | | |
| 193 | 22 | iP | 23 | 48 53 | | | | | | |
| | | S | | 49 54 | | | | | | |
| | | L | | 50 38 | | | | | | |
| | | M | | 50 56 | 5 | | 3 | | | |
| | | F | 0 | 00 - | | | | | | |
| 194 | 23 | L | 1 | 46 33 | | | | | | |
| | | L | | 46 54 | | | | | | |
| | | M | | 47 09 | 2 | | | | | |
| | | F | | 58 - | | | | | | |
| 195 | 23 | iS? | 3 | 37 25 | | | | | | |
| | | L | | 51 55 | | | | | | |
| | | L | 4 | 39 10 | | | | | | |
| | | M | | 45 12 | 30 | | 9 | | | |
| | | M | | 51 12 | 23 | | 5 | | | |
| | | M | | 55 18 | 23 | | 5 | | | |
| | | F | 5 | 00 12 | 23 | | 5 | | | |
| | | F | | 40 - | | | | | | |



LA PAZ = (Bolivia)

BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluyión antiguo

Mes de ABRIL de 1923

| Instrumentos: | Componente | Masa | To | | R | | c:1 | r/T ₀ ² |
|--|------------|------------|----|--|------|--|-----|-------------------------------|
| | | | | | | | | |
| } Péndulo horizontal Bifilar » » Vertical S. Calixto | N. S. | 2,000 kgs. | 14 | | 180 | | 4,0 | 0,0018 |
| | E. W. | 450 » | 16 | | 82 | | 3,6 | 0,0017 |
| | NS y EW | 1,500 » | 24 | | 1100 | | 2 | 0,0012 |

| Nº. | Día | Fases | HORA | | | Periodo | | Amplitud verdadera | | Distancia | NOTAS |
|-----|-----|---------------------------------------|--|--|-----------------------|---------|----|---------------------------------|----------------|-----------|-------------------------|
| | | | Tiempo medio de Greenw. | | | NS | EW | A _N | A _E | | |
| 196 | 23 | | 11 | | | S | S | μ | μ | Kms. | |
| 197 | 23 | S L M M M F | 44 45 45 45 45 | 32 07 14 24 44 | | | | | | | |
| | | | | | 4 5 5 | | | +13 +10 + 8 | | | |
| 198 | 23 | S L M M F | 21 17 18 18 18 | 16 32 07 41 18 | | | | | | | |
| | | | | | 7 7 | | | + 7 + 5 | | | |
| 199 | 24 | i iS L H H M M F | 14 09 12 11 12 12 13 | 06 36 06 30 06 45 47 | | | | | | 1610 | |
| | | | | | 7 5 4 6 7 | | | - 5 -10 -11 + 9 -12 | | | |
| 200 | 24 | i F | 23 35 | 23 - | | | | | | | |
| 201 | 25 | i | 8 | 18 09 | | | | | | | |
| 202 | 25 | e L M F | 19 20 33 21 | 50 30 47 Ca | | | | | | | |
| | | | | | 18 15 | | | 2,5 | | | |
| 203 | 25 | L M F | 22 49 51 23 | 14 32 27 09 | | | | | | | Fuertes barosis- mos |
| | | | | | 12 | | | 2 | | | |
| 204 | 26 | S L M M M F | 2 24 25 25 26 26 | 08 55 23 36 04 58 | | | | | | | |
| | | | | | 3 2 2 | | | +11 + 9 + 6 | | | |
| 205 | 26 | i iS L M M M F | 7 45 46 46 46 47 | 33 21 16 43 58 06 | | | | | | 1000 | |
| | | | | | 2 2 3 2 | | | + 8 -11 +13 +13 | | | |
| | | | 8 | 20 | | | | | | | |



LA PAZ = (Bolivia)

BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

Mes de ABRIL de 1922

| Instrumentos: | Componente | Masa | To | | ε:1 | $\frac{r}{T_0^2}$ |
|--|------------|------------|-----|------|-----|-------------------|
| | | | | A | | |
| Péndulo horizontal Bifilar > > > Vertical S. Calixto | N. S. | 2,000 kgs. | 14 | 180 | 4,6 | 0,0018 |
| | E. W. | 450 > | 18 | 82 | 3,6 | 0,0017 |
| | NS y EW | 1,500 > | 2,4 | 1100 | 2 | 0,0012 |

| Nº. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | Distancia | NOTAS |
|----------------|----------|--|--|--|---------|----|------------------------------------|----------------|-----------|---|
| | | | Tiempo medio de Greenw. | | NS | EW | A _N | A _E | | |
| | | | | | S | S | μ | μ | Kms. | |
| 206 | 27 | 1923 e+ L I F | 6 16 30 47 03 49 24 | | 18 | | 3 | | | |
| 207 | 27 | P | 7 35 25 | | | | | | | |
| 208 | 29 | iP F | 17 48 10 18 30 Ca. | | | | | | | Las demas fases dificiles de identificar. |
| 209 | 29 | iP | 21 53 59 | | | | | | | |
| 210 | 30 | iP iS L I F | 0 41 35 42 53 43 18 43 36 50 - | | 2 | | 5,5 | | 710 | |
| 211 | 30 | P (S) L E M F | 13 14 30 20 06 25 06 26 42 28 46 14 Ca. | | 9 12 | | 2 2 | | | |
| 212 212 | 30 30 | P L? F | 20 11 30 21 07 06 40 - | | | | | | | Fases indecifra- bles por débiles y mezclados con movimientos extra- ños. |
| <u>M A Y O</u> | | | | | | | | | | |
| 213 | 1 | 1923 o iP i(S) iS M L M M N M F | 10 35 48 10 45 19 52 33 52 55 59 46 11 02 36 04 50 07 36 12 12 15 06 12 20 - | | | | +13 - 9 -10 - 9 7 6 | | 6000 | |
| 214 | 1 | L F | 9 35 06 45 - | | 14 | | 2,5 | | | |
| 215 | 1 | P S? L M F | 16 41 22 45 27 49 06 50 24 17 20 - | | 10 | | 2 | | 2500 ? | |

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BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

Mes de MAYO de 1923

| Instrumentos: | Péndulo horizontal Bifilar | Componente | Masa | To | A | c:1 | $\frac{r}{T_0^2}$ |
|---------------|----------------------------|------------|------------|-----|------|-----|-------------------|
| | | N. S. | 2,000 kgs. | 14 | 180 | 4,0 | 0,0018 |
| » | » | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 |
| » | Vertical S. Calixto | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| Nº. | Día | Fases | HORA | | Período | | Amplitud verdadera | | Distancia | NOTAS |
|-----|----------------|---|---|----|-----------------------|----|---|----------------|---|-------|
| | | | Tiempo medio de Greenw. | NS | EW | An | Ae | | | |
| 216 | 1923 2 Mayo | P F | 19 48 03 20 25 - | S | S | μ | μ | Kms. | | |
| 217 | 3 | eP | 2 30 48 | | | | | | | |
| 218 | 4 | eP i eS iS L _T M _T M M M M M M M F | 16 41 34 51 09 53 34 53 59 17 13 09 21 27 25 09 31 44 35 18 39 18 41 18 43 50 18 10 00 19 45 - | | 45 32 | | -17 -23 -18 -15 -14 -11 -11 | 11470 12110 | 0 16 37 06 0 10 30 25 | |
| 219 | 4 | O iP iS L M M M L M F | 22 26 50 22 29 47 32 11 33 25 34 20 35 58 35 48 36 24 39 40 40 - | | 5 6 6 8 6 | | -195 -130 +165 +105 + 65 | 1360 | Sentido en Copia- po, La Serena Chile | |
| 220 | 7 | P L M M F | 0 24 59 25 14 25 19 25 22 30 - | | 1 1 | | 7 7 | 100 | | |
| 221 | 7 | L M F | 7 03 41 05 54 17 - | | 7 | | 2 | | | |
| 222 | 8 | P iS L M L M L F | 14 29 21 31 32 32 00 32 18 32 26 32 36 33 26 45 - | | 1,5 2 2 | | -22 + 19 +16 +19 | 1210 | | |
| 223 | 8 | P | 19 42 52 | | | | | | | |
| 224 | 9 | P | 3 36 21 | | | | | | | |



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BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluyión antiguo

Mes de MAYO de 1923

| Instrumentos: | Componente | Masa | To | A | c:1 | r/T ₀ ² |
|---------------|------------|------------|-----|------|-----|-------------------------------|
| | | | | | | |
| } | N. S. | 2,000 kgs. | 14 | 180 | 4,0 | 0,0018 |
| | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 |
| | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| Nº. | Día | Fases | HORA | | Período | | Amplitud verdadera | | Distancia | NOTAS |
|-----|-----|--------------|--|--|----------------------------------|----|----------------------------------|----|--------------|--|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| 225 | 10 | 1923 Mayo | 3 54 06 | | S | S | μ | μ | Kms. 5740 | 0 3 44 51 |
| | | | 1P 1S L M M M M M M F | 4 01 28 09 36 13 48 15 36 21 09 23 21 29 00 35 38 5 30 - | | | | | | |
| | | | | | 18 15 15 13 15 15 | | 7 5,5 3 2 2,5 2,5 | | | |
| 226 | 10 | | P | 7 24 47 | | | | | | |
| 227 | 10 | | eP F | 16 24 37 32 - | | | | | | Fuertes barosismos días 10 11 12 y 13 |
| 228 | 10 | | P F | 20 46 13 21 07 - | | | | | | Fases indecifrables |
| 229 | 11 | | P | 21 44 10 | | | | | | |
| 230 | 12 | | P S L M M M M F | 1 40 08 54 35 2 37 03 40 12 46 03 47 55 55 28 3 50 - | | | | | | |
| | | | | | 24 22 23 20 | | 11 7 10 5 | | | |
| 231 | 12 | | P | 17 27 22 | | | | | | |
| 232 | 15 | | iP L M F | 2 44 25 44 32 44 35 51 - | | | | | 53 | |
| 233 | 15 | | O? eP? eS L M M F | 21 36 33 22 49 33 22 00 20 19 08 21 24 23 18 47 - | | | | | 9760? | |
| | | | | | 18 15 | | 4 2 | | | |
| 234 | 16 | | eP | 76 39 13 | | | | | | |
| 235 | 16 | | eS oS L F | 16 08 46 12 20 14 20 25 - | | | | | 2240 | Sentido muy fuerte en Quito Ecuador con mu- chas réplicas los días 16 y 25 |
| 236 | 17 | | iP L M L F | 23 01 17 01 46 01 51 01 55 08 - | | | | | | Fuertes barosismo. días 17 18 19 20 Muy fuertes los días 21 22 23. |
| | | | | | 2 2 | | +12 -11 | | | |



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BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4h 32m 33s
Latitud S. 16° 29' 43"
Altura sobre el mar 3658 m.
Subsuelo: aluvión antiguo

Mes de MAYO de 1923

| Instrumentos: | Péndulo horizontal Bifilar | Componente | Masa | To | A | ε:1 | $\frac{r}{T_0^2}$ |
|-----------------------|----------------------------|------------|------------|-----|------|-----|-------------------|
| | | N. S. | 2,000 kgs. | 14 | 180 | 4,0 | 0,0018 |
| » » | » » | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 |
| » Vertical S. Calixto | » Vertical S. Calixto | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| Nº. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | Distancia | NOTAS |
|-----|--------------|--|--|--------|---------|--------|--------------------|----------------|-----------|-------|
| | | | Tiempo medio de Greenw. | | NS | EW | A _N | A _E | | |
| 249 | 28 Mayo 1923 | eP 1P eS L H M M M F | 1 45 36 45 49 59 46 2 40 01 48 45 51 54 56 36 3 03 39 4 Ca . | S S | | μ μ | | Kms. | | |
| 250 | 28 | eP | 7 44 36 | | | | | | | |
| 251 | 28 | eP S L M M H F | 8 35 11 39 15 43 30 46 36 47 45 50 00 9 10 - | | | | | 2490 | | |
| 252 | 28 | P | 12 22 51 | | | | | | | |
| 253 | 28 | 1P F | 19 37 21 50 - | | | | | | | |
| 254 | 29 | P | 9 00 12 | | | | | | | |
| 255 | 29 | P | 13 24 36 | | | | | | | |
| 256 | 30 | P oS? L M M M H F | 8 50 49 9 04 28 35 22 41 16 43 12 44 36 48 28 10 30 - | | | | | | | |
| 257 | 30 | P L H M H F | 18 17 09 19 03 00 08 12 10 12 12 00 40 - | | | | | | | |
| 258 | 31 | P | 6 15 32 | | | | | | | |
| 259 | 31 | P | 6 30 25 | | | | | | | |
| 260 | 31 | P F | 18 05 12 25 - | | | | | | | |

LA PAZ - (Bolivia)

BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16º 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

Mes de MAYO JUNIO de 1923

| Instrumentos: | Componente | Masa | To | A | c : 1 | $\frac{r}{T_0^2}$ |
|-----------------------|------------|---------|-----|------|-------|-------------------|
| | | | | | | |
| " " | E. W. | 450 " | 16 | 82 | 5,0 | 0,0017 |
| " Vertical S. Calixto | NS y EW | 1,500 " | 2,4 | 1100 | 2 | 0,0012 |

| Nº. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | Distancia | NOTAS |
|-----|-----|---------------|-------------------------|----------|---------|----|--------------------|----|---------------|-------|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| 261 | 31 | 1923 Mayo | 0 | 22 06 02 | S | S | μ | μ | 6110s. | |
| | | | 1P | 22 15 39 | | | | | | |
| | | | S | 23 21 | | | | | | |
| | | | L | 33 00 | | | | | | |
| | | | M | 36 52 | 19 | | 3 | | | |
| | | | M | 38 20 | 15 | | 2 | | | |
| | | | F | 23 Ca. | | | | | | |
| 262 | 1 | 1923 Junio | P | 15 34 48 | | | | | 1580 | |
| | | | OS | 37 28 | | | | | | |
| | | | L | 38 54 | | | | | | |
| | | | H | 39 54 | 12 | | -8 | | | |
| | | | H | 40 06 | 12 | | -11 | | | |
| | | | F | 40 27 | 08 | | +9 | | | |
| 263 | 1 | 1923 | OP | 16 20 33 | | | | | | |
| 264 | 1 | 1923 | P | 17 44 31 | | | | | 1923 | |
| | | | IS | 58 27 | | | 9 | | | |
| | | | L | 18 34 00 | | | | | | |
| | | | M | 39 18 | 21 | | 6 | | | |
| | | | M | 43 48 | 19 | | 4 | | | |
| | | | M | 47 50 | 25 | | 8 | | | |
| | | | M | 53 34 | 25 | | 8 | | | |
| | | | M | 59 00 | 20 | | 9 | | | |
| | | | M | 19 05 48 | 18 | | 3 | | | |
| | | | M | 10 33 | 18 | | 3 | | | |
| | | | M | 15 00 | 18 | | 3,5 | | | |
| | | | M | 18 48 | 19 | | 4 | | | |
| | | | M | 27 00 | 20 | | 5 | | | |
| | | | F | 30 00 | 18 | | 3 | | | |
| 265 | 1 | 1923 | IP | 20 35 35 | | | | | | |
| | | | (S) | 49 13 | | | | | | |
| | | | (S) | 49 53 | | | | | | |
| | | | L | 21 25 33 | | | | | | |
| | | | L | 29 18 | 27 | | 15 | | | |
| | | | M | 31 38 | 23 | | 7 | | | |
| | | | M | 40 55 | 18 | | 3 | | | |
| | | | M | 49 54 | 20 | | 4,5 | | | |
| | | | H | 22 03 00 | 20 | | 4,5 | | | |
| | | | F | 23 13 40 | 20 | | 4,5 | | | |
| 266 | 1 | 1923 | P | 23 42 03 | | | | | | |
| 267 | 2 | 1923 | IP | 1 10 20 | | | | | 560 0 1 01 17 | |
| | | | IS | 17 47 | | | | | | |
| | | | L | 26 03 | | | | | | |



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BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

Mes de JUNIO de 1923

| Instrumentos: | Componente | Masa | To | A | c:1 | $\frac{r}{T_0^2}$ |
|--|------------|------------|-----|------|-----|-------------------|
| | | | | | | |
| } Péndulo horizontal Bililar » » » Vertical S. Calixto | N. S. | 2,000 kgs. | 14 | 180 | 4,0 | 0,0018 |
| | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 |
| | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |
| | | | | | | |

| Nº. | Día | Fases | HORA | | Período | | Amplitud verdadera | | Distancia | NOTAS |
|-----|-----|---------------|-------------------------|--|---------|----|--------------------|----|--------------|------------------|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| 267 | 2 | 1923 Junio | 1 01 17 | | S | S | μ | μ | Kms. 5680 | |
| | | IP | 1 10 28 | | | | | | | |
| | | IS | 17 47 | | | | | | | |
| | | L | 20 00 | | | | | | | |
| | | M | 30 12 | | | | | | | |
| | | M | 37 36 | | | | | | | |
| | | M | 39 28 | | 14 | | 2,5 | | | |
| | | M | 43 38 | | 15 | | 3 | | | |
| | | M | 50 12 | | 15 | | 3 | | | |
| | | F | 3 50 - | | | | | | | |
| 268 | 2 | P | 3 47 00 | | | | | | | |
| 269 | 2 | P | 6 30 13 | | | | | | | |
| 270 | 2 | oP | 22 27 43 | | | | | | | |
| 271 | 2 | O | 23 21 59 | | | | | | 3000 | Con L-P |
| | | oP | 23 27 58 | | | | | | | |
| | | L | 35 03 | | | | | | | |
| | | M | 36 24 | | 12 | | + 4 | | | |
| | | M | 37 54 | | 10 | | - 5 | | | |
| | | M | 39 00 | | 6 | | 5 | | | |
| | | M | 39 58 | | 8 | | 4,5 | | | |
| | | F | 0 20 - | | | | | | | |
| 272 | 3 | P | 4 25 07 | | | | | | | |
| | | S? | 32 34 | | | | | | | |
| | | F | 50 - | | | | | | | |
| 273 | 3 | P | 4 32 09 | | | | | | | |
| 274 | 3 | P | 4 50 34 | | | | | | | |
| 275 | 3 | O | 11 33 24 | | | | | | 6490 | V.L. 229 Km.p.m. |
| | | P | 11 43 23 | | | | | | | |
| | | IS | 51 25 | | | | | | | |
| | | L | 12 01 44 | | | | | | | |
| | | M | 04 06 | | 25 | | 7 | | | |
| | | M | 05 38 | | 25 | | 7 | | | |
| | | M | 06 44 | | 20 | | 4,5 | | | |
| | | F | 13 0a . | | | | | | | |
| 276 | 3 | oP | 16 30 29 | | | | | | | |
| 277 | 4 | oP | 19 42 59 | | | | | | | |
| 278 | 4 | oP | 21 14 54 | | | | | | | |
| 279 | 6 | oP | 2 25 35 | | | | | | | |
| 280 | 6 | oP | 17 56 15 | | | | | | | |
| 281 | 7 | IP | 3 44 52 | | | | | | | |
| 282 | 7 | L | 18 48 06 | | | | | | | |
| | | F | 48 26 | | | | | | | |
| | | F | 54 - | | | | | | | |



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Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

Mes de JUNIO de 1923

| Instrumentos: | Componente | Masa | To | | R | | c:1 | | r | |
|----------------------------|------------|------------|-----|--|------|--|-----|--|--------|--|
| | | | | | | | | | | |
| Péndulo horizontal Bifilar | N. S. | 2,000 kgs. | 14 | | 180 | | 4,0 | | 0,0018 | |
| » » | E. W. | 450 » | 18 | | 82 | | 5,0 | | 0,0017 | |
| » Vertical S. Calixto | NS y EW | 1,500 » | 2,4 | | 1100 | | 2 | | 0,0012 | |

| Nº. | Día | Fases | HORA | | | Período | | Amplitud verdadera | | Distancia | NOTAS |
|-------------------|------------------|--|-------------------------|----|----|---------|----|--------------------|----|-----------|---|
| | | | Tiempo medio de Greenw. | | | NS | EW | AN | AE | | |
| 309 | 1923 27 Junio | I L M F | 21 | 34 | 19 | S | S | μ | μ | Kms. | |
| | | | | 34 | 55 | | | | | | |
| | | | | 35 | 01 | 4 | | + 8 | | | |
| | | | | 40 | - | | | | | | |
| 310 | 29 | i | 11 | 12 | 24 | | | | | | |
| 311 | 30 | r | 23 | 45 | 33 | | | | | | Fuertes barosis- mos los días 29 30 1 y 2 |
| <u>JULIO 1923</u> | | | | | | | | | | | |
| 312 | 1923 1 Julio | i | 4 | 13 | 13 | | | | | | |
| 313 | 1 | i L M F | 12 | 13 | 21 | | | | | | |
| | | | | 13 | 59 | | | | | | |
| | | | | 14 | 06 | | | | | | |
| | | | | 20 | - | | | | | | |
| 314 | 2 | r L M M F | 11 | 24 | 22 | | | | | | Mezclado con fuertes barosis- mos . |
| | | | | 27 | 08 | | | | | | |
| | | | | 27 | 56 | 10 | | - 4 | | | |
| | | | | 29 | 06 | 8 | | - 4 | | | |
| | | | | 40 | - | | | | | | |
| 315 | 2 | i iS L M M F F | 13 | 42 | 43 | | | | | 545 | |
| | | | | 43 | 43 | | | | | | |
| | | | | 44 | 03 | | | | | | |
| | | | | 44 | 30 | 6 | | -15 | | | |
| | | | | 44 | 36 | 7 | | + 12 | | | |
| | | | | 45 | 36 | 5 | | +10 | | | |
| | | | | 55 | - | | | | | | |
| 316 | 2 | i | 18 | 34 | 36 | | | | | | |
| 317 | 3 | i | 18 | 25 | 44 | | | | | | |
| 318 | 4 | O i iS L M M M F F | 5 | 29 | 34 | | | | | 2530 | |
| | | | 5 | 34 | 44 | | | | | | |
| | | | | 38 | 51 | | | | | | |
| | | | | 42 | 33 | | | | | | |
| | | | | 43 | 18 | 7 | | - 7 | | | |
| | | | | 44 | 27 | 7 | | - 7 | | | |
| | | | | 50 | 18 | 10 | | -11 | | | |
| | | | | 57 | 00 | | | | | | |
| | | | 6 | 30 | - | | | | | | |
| 319 | 4 | i S? L M M F | 8 | 20 | 30 | | | | | 2500 | 0 8 15 23 |
| | | | | 24 | 35 | | | | | | |
| | | | | 28 | 42 | | | | | | |
| | | | | 31 | 42 | 10 | | 6 | | | |
| | | | | 33 | 00 | 8 | | -7 | | | |
| | | | 9 | 35 | - | | | | | | |



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 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

Mes de JULIO de 1923

| Instrumentos: | Componente | Masa | To | | A | | r | |
|--|------------|------------|-----|------|-----|--------|-----|-----------------------------|
| | | | | | | | c:1 | T ₀ ² |
| Péndulo horizontal Bifilar » » Vertical S. Calixto | N. S. | 2,000 kgs. | 14 | 180 | 4,2 | 0,0018 | | |
| | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 | | |
| | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 | | |

| Nº. | Día | Fases | HORA | | | Período | | Amplitud verdadera | | Distancia | NOTAS | | | | | | |
|-----|---------|---------------|-------------------------|-----|--|---------|----|--------------------|----|-------------|--|----|----------|----|---|-----|---|
| | | | Tiempo medio de Greenw. | | | NS | EW | AN | AE | | | | | | | | |
| 320 | 4 | 1923 Julio | | | | | | | | Kms. 330 | | | | | | | |
| | | | | | | | | | | | | iP | 16 51 07 | S | S | μ | μ |
| | | | | | | | | | | | | iS | 51 44 | 2 | | +17 | |
| | | | | | | | | | | | | L | 51 54 | 2 | | -3 | |
| | | | | | | | | | | | | M | 52 03 | 5 | | +52 | |
| | | | | | | | | | | | | M | 52 27 | 3 | | +45 | |
| | | | | | | | | | | | | M | 53 00 | 5 | | -42 | |
| | | | | | | | | | | | | M | 53 22 | 4 | | +49 | |
| | | | | | | | | | | | | M | 53 36 | 5 | | +42 | |
| | | | | | | | | | | | | M | 54 22 | 5 | | -41 | |
| M | 55 07 | 8 | | +23 | | | | | | | | | | | | | |
| F | 17 30 - | | | | | | | | | | | | | | | | |
| 321 | 5 | | | | | | | | | 2000 | 0 1 30 45 | | | | | | |
| | | | | | | | | | | | | iP | 1 34 57 | | | | |
| | | | | | | | | | | | | L | 39 32 | | | | |
| | | | | | | | | | | | | M | 40 32 | 10 | | 2 | |
| F | 2 Ca . | | | | | | | | | | | | | | | | |
| 322 | 5 | | | | | | | | | 1970 | 0 15 57 04 | | | | | | |
| | | | | | | | | | | | | iP | 16 01 13 | | | | |
| | | | | | | | | | | | | iS | 04 33 | 8 | | +6 | |
| | | | | | | | | | | | | L | 06 13 | | | | |
| | | | | | | | | | | | | M | 07 04 | 9 | | -4 | |
| | | | | | | | | | | | | M | 08 40 | 15 | | +8 | |
| F | 17 Ca . | | | | | | | | | | | | | | | | |
| 323 | 6 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | P | 10 53 37 | | | | |
| | | | | | | | | | | | | L | 54 05 | | | | |
| | | | | | | | | | | | | M | 54 13 | | | | |
| F | 59 - | | | | | | | | | | | | | | | | |
| 324 | 8 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | P | 12 54 46 | | | | |
| 325 | 8 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | P | 17 57 05 | | | | |
| | | | | | | | | | | | | L | 59 00 | | | | |
| | | | | | | | | | | | | M | 59 12 | | | | |
| F | 18 15 - | | | | | | | | | | | | | | | | |
| 326 | 10 | | | | | | | | | 1710 | 0 0 28 23 | | | | | | |
| | | | | | | | | | | | | iP | 0 32 31 | | | | |
| | | | | | | | | | | | | iS | 35 28 | 11 | | -7 | |
| | | | | | | | | | | | | L | 36 31 | | | | |
| | | | | | | | | | | | | M | 38 12 | 14 | | +80 | |
| | | | | | | | | | | | | M | 38 56 | 10 | | -69 | |
| | | | | | | | | | | | | M | 41 09 | 9 | | -86 | |
| F | 2 30 - | | | | | | | | | | | | | | | | |
| 327 | 10 | | | | | | | | | | | | | | | | |
| 328 | 10 | | | | | | | | | | | | | | | | |
| 329 | 10 | | | | | | | | | | Las demas fases no se pueden determinar á causa de los fuertes barosismos y debil del terremoto. | | | | | | |
| | | | | | | | | | | | | er | 18 38 47 | | | | |
| S? | 44 25 | | | | | | | | | | | | | | | | |
| ... | | | | | | | | | | | | | | | | | |
| 330 | 12 | | | | | | | | | 12970 | 0 3 18 02 | | | | | | |
| | | | | | | | | | | | | iP | 3 34 05 | | | | |
| | | | | | | | | | | | | eS | 47 00 | | | | |
| | | | | | | | | | | | | L | 4 18 00 | | | | |
| | | | | | | | | | | | | M | 20 30 | 15 | | 2 | |
| F | 50 - | | | | | | | | | | | | | | | | |



LA PAZ = (Bolivia)

BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

Mes de JULIO de 1923

| Instrumentos: | Componente | Masa | To | | A | c:1 | r T ₀ ² |
|---|------------|------------|-----|------|-----|--------|----------------------------------|
| | | | 14 | 18 | | | |
| Péndulo horizontal Bifilar » » » Vertical S. Calixto | N. S. | 2,000 kgs. | 14 | 180 | 4,2 | 0,0018 | |
| | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 | |
| | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 | |

| Nº. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | Distancia | NOTAS |
|------------------|---------------|--|--|--|---------|----|--------------------|----------------|---|--|
| | | | Tiempo medio de Greenw. | | NS | EW | A _N | A _E | | |
| 330 | 12 Julio 1923 | eP eS? L M F | 7 17 22 28 33 8 05 00 08 30 20 - | | S | S | μ | μ | 10270 Kms. | 0 7 04 07 Fases muy debiles y mezcladas con barosismos. |
| 331 | 12 | L F | 10 15 00 30 - | | | | | | | |
| 332 | 12 | eP | 12 08 35 | | | | | | | |
| 333 | 12 | iP L M M M F | 12 41 46 42 26 42 31 42 45 43 36 55 - | | | | | | | |
| 334 | 12 | i | 14 08 00 | | | | | | | |
| 335 | 13 | P F | 0 22 22 40 - | | | | | | | |
| 336 | 13 | O i eSN eSE L M M M M M M M M F | 11 13 26 11 33 39 47 49 47 54 12 31 54 42 38 44 06 46 06 47 38 48 44 58 20 13 01 06 07 20 09 04 12 18 14 ca . | | | | | | 16900 | |
| 337 | 13 | P | 18 56 32 | | | | | | | |
| 338 | 14 | ei | 0 16 24 | | | | | | | |
| 339 | 14 | i iS L M F | 8 31 10 32 00 32 18 32 24 45 - | | 2,5 | | | -5 | 339b 14 P 13 00 22 339c 16 P 3 55 15 339d 16 P 12 58 29 | |
| 340 | 17 | i | 0 40 38 | | | | | | | |
| 341 ^e | 18 | i | 6 13 32 | | | | | | 340 18-VII-23 | |
| 342 | 19 | i F | 1 30 00 36 - | | | | | | 341 18 0 36 19 342b e(i) 1 17 09 i 1 17 32 | |



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BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 4h 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvión antiguo

Mes de JULIO de 1923

| Instrumentos: | Componente | Masa | Amplitud verdadera | | | |
|---|------------|------------|--------------------|------|-----|-------------------------------|
| | | | To | R | c:1 | r/T ₀ ² |
| Péndulo horizontal Bililar » » » Vertical S. Calixto | N. S. | 2,000 kgs. | 14 | 180 | 4,2 | 0,0018 |
| | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 |
| | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |
| | | | | | | |

| Nº. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | Distancia | NOTAS |
|-----|-----|---------------|-------------------------|----|---------|----|--------------------|----------------|--------------|--------------|
| | | | Tiempo medio de Greenw. | | NS | EW | A _N | A _E | | |
| 343 | 20 | 1923 Julio | 5 46 48 | | S | S | μ | μ | Kms. 1410 | |
| | | I | 5 49 51 | | | | | | | |
| | | IS | 5 52 19 | | | | | | | |
| | | L | 5 53 14 | | | | | | | |
| | | M | 5 54 50 | 10 | | | -23 | | | |
| | | M | 5 55 30 | 8 | | | -32 | | | |
| | | M | 5 56 08 | 8 | | | +32 | | | |
| | | F | 7 Ca . | | | | | | | |
| 344 | 20 | ii | 6 22 08 | | | | | | | |
| 345 | 20 | ei | 8 33 51 | | | | | | | |
| 346 | 20 | O | 15 03 29 | | | | | | 5330 | |
| | | F | 15 12 18 | | | | | | | |
| | | es | 19 18 | | | | | | | |
| | | IS? | 20 07 | | | | | | 6210? | 0)? 15 02 25 |
| | | L | 26 36 | | | | | | | |
| | | M | 31 12 | 12 | | | +33 | | | |
| | | M | 34 14 | 13 | | | -31 | | | |
| | | M | 34 58 | 10 | | | +21 | | | |
| | | F | 16 30 - | | | | | | | |
| 347 | 21 | ii | 2 44 21 | | | | | | | |
| 348 | 21 | ei | 2 51 05 | | | | | | | |
| | | F | 3 15 - | | | | | | | |
| 349 | 21 | F | 14 12 05 | | | | | | | |
| 350 | 22 | ei | 0 19 04 | | | | | | 1330 | |
| | | IS | 21 25 | 3 | | | + 3 | | | |
| | | L | 22 24 | | | | | | | |
| | | M | 23 30 | 10 | | | -11 | | | |
| | | M | 24 45 | 8 | | | + 5 | | | |
| | | M | 25 40 | 10 | | | - 4 | | | |
| | | H | 26 45 | 8 | | | - 5 | | | |
| | | F | 1 30 - | | | | | | | |
| 351 | 22 | O | 14 28 20 | | | | | | 19950 | o 14 18 20 |
| | | ei | 14 37 30 | | | | | | 15950 | s 14 51 47 |
| | | es | 50 00 | | | | | | | |
| | | L | 15 17 50 | | | | | | | |
| | | M | 23 12 | 30 | | | 8 | | | |
| | | M | 26 50 | 21 | | | 9 | | | |
| | | M | 31 24 | 20 | | | 4 | | | |
| | | M | 35 20 | 20 | | | 5 | | | |
| | | M | 38 06 | 20 | | | 5 | | | |
| | | M | 39 10 | | 18 | | 6 | | | |
| | | M | 48 06 | 20 | | | 5 | | | |
| | | F | 17 Ca . | | | | | | | |



BOLETIN SÍSMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich 68° 9' 10"
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvi3n antiguo

Mes de *JULIO* de 1923

| Instrumentos: | Componente | Masa | | | | |
|------------------------------|------------|------------|-----|------|------|-------------------|
| | | | To | A | ε: l | $\frac{r}{T_0^2}$ |
| } Péndulo horizontal Bifilar | N. S. | 2,000 kgs. | 14 | 180 | 4,2 | 0,0018 |
| | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 |
| | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| No. | Día | Fases | HORA | | Período | | Amplitud verdadera | | Distancia | NOTAS |
|-----|---------------|----------------------------------|---|------------|-----------------------|----|-----------------------------------|----|-----------|--|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| | | | | | S | S | μ | μ | Kms. | |
| 352 | 23 Julio 1923 | O ei S L M M F | 7 29 31 7 41 31 8 07 50 12 24 13 34 30 - | | 20 18 | | 3 2 | | 8760 | |
| 353 | 23 | O ep S L M M F | 8 50 18 8 57 03 9 02 24 06 20 07 12 08 06 35 - | | 10 10 | | 2 2 | | 3570 | |
| 354 | 24 | i iS L M M M F | 3 35 59 38 18 39 14 39 48 40 30 42 20 47 18 4 30 - | 2 6 | 7 5 5 6 | | -5 +5 +7 +5 +8 +5 | | 1310 | |
| 355 | 24 | i | 13 05 34 | | | | | | | |
| 356 | 25 | i | 4 32 41 | | | | | | | |
| 357 | 26 | i L M M F | 2 57 20 57 42 57 47 57 54 3 10 - | 0,5 0,5 | | | +33 +23 | | | |
| 358 | 26 | i | 3 31 28 | | | | | | | |
| 359 | 26 | i F | 23 56 05 0 05 - | | | | | | | Fuertes barosis- mos los días : 27 28 30 . |
| 360 | 27 | i | 11 44 49 | | | | | | | |
| 361 | 31 | i | 5 07 59 | | | | | | | |
| 362 | 31 | i iS L M M M F | 6 35 57 36 47 37 07 37 25 37 40 38 30 39 28 7 10 - | | 4 6 6 6 5 | | +18 +120 -109 +71 +66 | | | |

LA PAZ = (Bolivia)

BOLETIN SISMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich } 68° 8' 16"
 } 4 32^m 33^s
 Latitud S. } 16° 29' 43"
 Altura sobre el mar } 3658 m.
 Subsuelo: aluvión antiguo

Mes de AGOSTO de 1923

| Instrumentos: | Péndulo horizontal Bifilar | Componente | Masa | To | | c:1 | r To ² |
|---------------|----------------------------|------------|------------|-----|------|-----|----------------------|
| | | | | | A | | |
| | | N. S. | 2,000 kgs. | 14 | 180 | 4,2 | 0,0018 |
| | | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 |
| | | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| No. | Día | Fases | HORA | | Período | | Amplitud verdadera | | Distancia | NOTAS |
|-----|-----------|---|---|---------------------------------------|---------|----|---|----------------|-----------|------------------------------------|
| | | | Tiempo medio de Greenw. | | NS | EW | A _n | A _e | | |
| | 1923 | | | | S | S | μ | μ | Kms. | |
| 387 | 14 Agosto | P | 1 00 42 | | | | | | | |
| 388 | 14 | 1P | 7 25 36 | | | | | | | |
| 389 | 15 | P | 20 25 52 | | | | | | | |
| 390 | 15 | 1P S? L F | 22 07 57 15 22 24 57 40 - | | | | | | 6930? | Fases débiles y fuertes barosismos |
| 391 | 16 | P L M M F | 3 11 24 12 02 12 04 12 15 30 - | 42 3 | | | +16 +18 | | | |
| 392 | 16 | 1P | 3 47 57 | | | | | | | Fin confundido con el siguiente |
| 393 | 16 | 1P | 3 52 57 | | | | | | | |
| 394 | 16 | P | 4 18 47 | | | | | | | |
| 395 | 16 | P | 20 42 32 | | | | | | | |
| 396 | 16 | P | 21 43 42 | | | | | | | |
| 397 | 17 | 1P 1S L M M M M M F | 1 07 22 09 00 09 49 10 47 10 10 11 06 13 06 13 48 15 36 2 39 - | 2 3 8 8 7 7 7 11 | | | + 2,5 + 8 + 46 + 111 + 38 + 47 + 33 + 34 | 890 | | |
| 398 | 17 | P | 1 29 39 | | | | | | | |
| 399 | 17 | 1P S L M F | 6 32 20 34 10 34 52 36 06 50 - | 6 | | | + 6 | 1020 | 0 6 30 06 | |
| 400 | 18 | P | 20 23 22 | | | | | | | |
| 401 | 19 | P | 1 42 31 | | | | | | | |
| 402 | 19 | P | 15 35 15 | | | | | | | Días 18 y 19 fuertes barosismos. |

LA PAZ = (Bolivia)

BOLETIN SISMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich } 68° S' 16"
4h 32m 33s
 Latitud S. } 16° 29' 43"
 Altura sobre el mar } 3658 m.
 Subsuelo: aluvión antiguo

Mes de AGOSTO de 1923

| Componente | Masa | To | A | c:1 | $\frac{r}{T_0^2}$ |
|------------|------------|-----|------|-----|-------------------|
| N. S. | 2,000 kgs. | 14 | 180 | 4,2 | 0,0018 |
| E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 |
| NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

Péndulo horizontal Bifilar

Instrumentos:

 » »
 » Vertical S. Calixto

| No. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | D stancia | NOTAS |
|-----|-----------|-------|-------------------------|----|---------|----|--------------------|-------|-----------|----------------------|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| | | | | | S | S | μ | μ | Kms. | |
| 403 | 19 Agosto | 1P | 17 | 32 | 49 | 1 | | - 6 | | |
| | | L | | 33 | 21 | | | | | |
| | | M | | 33 | 24 | 4 | | +75 | | |
| | | M | | 33 | 48 | 5 | | +23 | | |
| | | M | | 34 | 24 | 3 | | +32 | | |
| | | F | | 50 | - | | | | | |
| 404 | 20 | P | 18 | 05 | 57 | | | | | |
| 405 | 20 | P | 18 | 29 | 57 | | | | | |
| 406 | 21 | P | 17 | 00 | 47 | | | | | |
| 407 | 22 | 1P | 19 | 39 | 35 | | | | | |
| | | 1S | | 40 | 42 | 3 | | - 16 | | |
| | | L | | 41 | 06 | | | | | |
| | | M | | 41 | 18 | 5 | | - 18 | | |
| | | M | | 41 | 48 | 6 | | - 21 | | |
| | | M | | 42 | 34 | 7 | | - 12 | | |
| | | F | 20 | Ca | . | | | | | |
| 408 | 22 | P | 22 | 10 | 47 | | | | | |
| 409 | 23 | P | 5 | 19 | 00 | | | | 3260 | 10 5 12 24 |
| | | S | | 24 | 00 | 8 | | 2 | | |
| | | L | | 28 | 05 | | | | | |
| | | M | | 31 | 24 | 8 | | + 9 | | |
| | | M | | 32 | 48 | 7 | | + 9,5 | | |
| | | M | | 33 | 57 | 8 | | - 12 | | |
| | | M | | 34 | 24 | 7 | | + 9,5 | | |
| | | M | | 35 | 57 | 7 | | + 9,5 | | |
| | | F | 6 | 40 | - | | | | | |
| 410 | 23 | P | 8 | 15 | 15 | | | | | |
| 411 | 23 | P | 9 | 01 | 13 | | | | | |
| 412 | 23 | P | 22 | 38 | 27 | | | | | |
| 413 | 24 | P | 0 | 50 | 02 | | | | | |
| 414 | 25 | P | 0 | 14 | 37 | | | | 2830 | 0 0 08 57 |
| | | S | | 19 | 07 | | | | | |
| | | L | | 23 | 27 | | | | | |
| | | M | | 25 | 20 | 8 | | 4 | | |
| | | M | | 27 | 00 | 8 | | 2 | | |
| | | M | | 28 | 45 | 8 | | 2 | | |
| | | F | | 50 | - | | | | | |
| 415 | 26 | 1P | 18 | 13 | 28 | | | | | |
| | | F | | 13 | - | | | | | Secudida muy proxima |
| 416 | 26 | oP | 22 | 24 | 27 | | | | | |
| 417 | 27 | 1P | 7 | 28 | 05 | | | | | |



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BOLETIN SISMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich { 68° 8' 16"
4 32 33"
Latitud S. 16° 29' 43"
Altura sobre el mar 3658 m.
Subsuelo: aluvión antiguo

Mes de AGOSTO de 1923

| Instrumentos: | Péndulo horizontal Bifilar | Componente | Masa | To | A | c:1 | r To² |
|---------------|----------------------------|------------|------------|-----|------|-----|----------|
| | | N. S. | 2,000 kgs. | 14 | 180 | 4,2 | 0,0018 |
| » | » | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 |
| » | Vertical S. Calixto | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| No. | Día | Fases | HORA | | Período | | Amplitud verdadera | | D stancia Kms. | NOTAS |
|------------------------------------|-----------|--|--|--|---------|----|--------------------|----------------|-------------------|---------------|
| | | | Tiempo medio de Greenw. | | NS | EW | A _N | A _E | | |
| | 1923 | | | | S | S | μ | μ | | |
| 417 | 27 Agosto | 1P i L M M M M M F | 7 28 05 28 12 28 57 29 04 29 18 29 38 29 50 30 02 | | | | | | | |
| | | | | | 0,5 | | + 28 | | | |
| | | | | | 1 | | + 69 | | | |
| | | | | | 1 | | + 80 | | | |
| | | | | | 2 | | + 64 | | | |
| | | | | | 2 | | + 64 | | | |
| | | | | | 2 | | - 39 | | | |
| | | | 8 00 | | | | | | | |
| 418 | 28 | P | 5 56 37 | | | | | | | |
| 419 | 28 | P | 9 07 10 | | | | | | | |
| 420 | 28 | O 1P 1S S L M M M M M M M F | 23 15 04 23 25 00 23 35 05 23 07 41 57 42 18 43 15 4 6 48 47 06 51 27 52 32 53 06 59 36 0 01 30 40 - | | 7 | | 2,5 | | 6500 | |
| | | | | | 16 | | 4 | | | |
| | | | | | 20 | | 6,5 | | | |
| | | | | | | 21 | | | | |
| | | | | | 15 | | 2,5 | | | |
| | | | | | 15 | 15 | | | | |
| | | | | | 16 | | 3 | | | |
| | | | | | 15 | | 2,5 | | | |
| | | | | | 15 | | 3 | | | |
| 421 | 29 | P | 4 30 09 | | | | | | | |
| 422 | 30 | P | 22 31 57 | | | | | | | |
| <u>S E P T I E M B R E 1 9 2 3</u> | | | | | | | | | | |
| 423 | 1 Set. | O 1PV 1PN PE PR1 PR2E PR2M SE SN SRM SRE | 2 58 32 3 18 25 18 27 18 29 24 52 29 17 29 27 32 31 32 34 41 15 41 12 | | 2 | | - 2,5 | | 16500 | Japan central |
| | | | | | 10 | | - 3 | | | |
| | | | | | 15 | 15 | | | | |
| | | | | | 16 | | - 11 | | | |
| | | | | | | | | | | |
| | | | | | 34 | | + 197 | | | |
| | | | | | | 35 | | | | |



LA PAZ = (Bolivia)

BOLETIN SISMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

SEPTIEMBRE de 1923

Mes de

Longitud W. Greenwich { 68° 8' 16"
4° 32' 33"
Latitud S. 16° 29' 43"
Altura sobre el mar 3658 m.
Subsuelo: aluvión antiguo

| Instrumentos: | Componente | Masa | To | | A | c:l | r To² |
|--|------------|------------|-------|-------|-----|--------|----------|
| | | | N. S. | E. W. | | | |
| } Péndulo horizontal Biffler > > > Vertical S. Calixto | N. S. | 2,000 kgs. | 14 | 180 | 4,0 | 0,0018 | |
| | E. W. | 450 | 16 | 82 | 5,0 | 0,0017 | |
| | NS y EW | 1,500 | 24 | 1100 | 2 | 0,0012 | |

| No. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | D stancia Kms. | NOTAS |
|--------------------------|--------------------------------|--|---|--|--|---|--------------------------------------|----------------|---------------------------------------|-------|
| | | | Tiempo medio de Greenw. | | NS | EW | A _N | A _E | | |
| | | | S | S | μ | μ | | | | |
| 423 | 1923 1 Set. continuacion | SRE SR _N L _N L _E M _E M M M M M M M M M M M F | 3 46 27 4 46 27 4 01 18 4 08 09 12 54 14 45 16 10 16 32 17 12 17 57 18 36 19 10 19 54 21 38 24 15 25 18 26 40 | 30 45 25 24 20 20 18 | 35 32 23 24 21 20 20 20 20 | -122 -469 +386 +492 -126 +228 +257 -143 +251 +99 +103 +261 +108 | +160 -217 +232 +157 -203 | +16600 | Japon | |
| 424 | 1 | iP L _N L _E M _E M M M M M M M F | 3 43 55 4 22 57 27 47 29 18 33 00 33 36 33 56 35 42 38 30 45 12 | 20 23 17 30 18 17 | 23 15 | +82 +178 -126 +69 +85 +108 +126 -78 | | | Repet. del anterior. Japon | |
| 425 426 427 428 | 1 1 1 1 | P oP iP iP L M M M M M M | 3 48 12 3 53 51 3 54 02 3 59 59 4 42 00 4 44 00 4 44 12 4 45 00 4 46 00 4 46 32 4 47 42 | 16 18 17 15 17 | 18 18 | +116 +56 -104 +55 +49 +54 | | | Repet. del 423 Japon id. id. | |
| 429 | 1 | iP L _N L _E M _E M M M M M M | 4 07 52 4 49 18 4 49 27 5 22 00 5 22 50 5 33 50 5 44 06 5 55 54 5 56 48 5 58 00 | 17 18 18 17 18 18 | 18 20 | +57 +123 +59 -174 +44 +139 +133 | | | Japon | |



LA PAZ = (Bolivia)

BOLETIN SISMICO DEL OBSERVATORIO DEL COLEGIO SAN CALIXTO (PP. Jesuitas)

Longitud W. Greenwich $\left. \begin{array}{l} 68^{\circ} 8' 16'' \\ 4^h 32^m 33s \end{array} \right\}$
 Latitud S. $16^{\circ} 29' 43''$
 Altura sobre el mar 3658 m.
 Subsuelo: aluvi3n antiguo

Mes de SEPTIEMBRE de 1923

| Instrumentos: | Péndulo horizontal Bifilar | Componente | Masa | To | A | c:l | r |
|---------------|----------------------------|------------|------------|-----|------|-----|--------|
| | | N. S. | 2,000 kgs. | 14 | 180 | 4,0 | 0,0018 |
| » | » | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 |
| » | Vertical S. Calixto | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| No. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | D stancia | NOTAS |
|-----|--------------------------------|--|---|----|---------|----|--------------------------------------|----------------|-----------|---|
| | | | Tiempo medio de Greenw. | | NS | EW | A _N | A _E | | |
| 445 | 1923 2 Set. continuacion | L M M M M M M M M M M M M M M M M F | 3 58 06 4 01 14 03 12 04 50 05 30 07 20 09 00 09 32 14 36 16 18 18 00 19 36 30 14 34 13 41 48 43 54 46 12 50 54 6 Ca. | | S | S | μ | μ | Kms. | Japon |
| 446 | 2 | P | 5 07 54 | | | | | | | id. |
| 447 | 2 | eP | 5 30 07 | | | | | | | id. |
| 448 | 2 | 1P S L M M | 9 46 43 10 00 46 37 56 41 18 47 16 Fin confundido con el siguiente. | 4 | | | +2,5 | | 16200 | Japon |
| 449 | 2 | 1P L | 10 08 36 56 56 | 25 | | | 6 | | | Japon |
| 450 | 2 | 1P M M M M M F | 13 02 16 06 18 10 50 11 32 23 00 25 44 12 Ca. | 20 | 20 | | 5 3,5 4,5 2,5 6,5 4,5 | | | |
| 450 | 2 | e(P) 1P | 13 26 00 13 28 46 | | | | | | | Las otras fases perdidas al cambiar las bandas. |
| 451 | 2 | 1P F | 14 36 19 44 - | | | | | | | |
| 452 | 2 | 1P | 22 38 37 | | | | 88 mm | | | Sentido como fuerte en Mapiri, Consata Tacacoma. Sentido como leve en La Paz. |



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Longitud W. Greenwich } 68° 8' 16"
 } 4 32m 33s
 Latitud S. } 16° 29' 43"
 Altura sobre el mar } 3658 m.
 Subsuelo: aluvi6n antiguo

Mes de **SEPTIEMBRE** de 1923

| Instrumentos: | Componente | Masa | To | R | c:1 | r To² |
|---|------------|------------|-----|------|-----|----------|
| } Péndulo horizontal Bifilar } } } Vertical S. Calixto | N. S. | 2,000 kgs. | 14 | 180 | 4,0 | 0,0018 |
| | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 |
| | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| No. | Día | Fases | HORA | | Período | | Amplitud verdadera | | D stancia | NOTAS |
|-----|-----|--------------|-------------------------|----------|---------|----|--------------------|-----|-----------|----------------|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| | | | | | S | S | µ | µ | Kms. | |
| 453 | 4 | 1923 Set. | P | 16 13 31 | | | | | | |
| | | | F | 26 - | | | | | | |
| 454 | 5 | | oP | 1 51 16 | | | | | | |
| 455 | 6 | | P | 18 41 11 | | | | | | |
| 456 | 7 | | oP | 6 40 21 | | | | | | |
| | | | S | 44 23 | | | | | | |
| | | | F | 55 - | | | | | | |
| 457 | 7 | | 1P | 9 11 11 | | | | | | Local |
| | | | F | 13 - | | | | | | |
| 458 | 7 | | oP | 17 52 26 | | | | | | Japon |
| | | | F | 13 15 - | | | | | | |
| 459 | 8 | | P | 7 44 11 | | | | | | |
| | | | L | 45 20 | | | | | | |
| | | | F | 55 - | | | | | | |
| 460 | 9 | | 1P | 4 20 43 | 5 | | + 5 | | | 1830 |
| | | | 1S | 23 51 | 5 | | | | | |
| | | | L | 25 16 | | | | | | |
| | | | M | 25 46 | 5 | | -15 | | | |
| | | | M | 26 20 | 4 | | + 13 | | | |
| | | | M | 26 36 | 4 | | - 13 | | | |
| | | | F | 5 Ca. | | | | | | |
| 461 | 9 | | 1P | 22 23 52 | 3 | | + 2 | | | |
| | | | S | 37 41 | | | | | | |
| | | | L ^N | 23 14 56 | | | | | | |
| | | | L ^E | 17 56 | | 52 | | | | |
| | | | L ^M | 22 12 | 33 | | | | | |
| | | | M | 24 26 | | 30 | 36 | 35 | | |
| | | | M | 24 24 | 23 | | 8 | | | |
| | | | M | 28 20 | 25 | | 12 | | | |
| | | | M | 33 50 | | 20 | | 12 | | |
| | | | M | 39 12 | 18 | | 6 | | | |
| | | | M | 40 32 | | 20 | | -14 | | |
| | | | M | 41 34 | 20 | | 19 | | | |
| | | | M | 42 06 | 20 | 19 | 9 | -13 | | |
| | | | M | 50 08 | 20 | | + 9 | | | |
| | | | M | 54 24 | 17 | | 3,5 | | | |
| | | | M | 58 24 | | 15 | 8 | | | |
| | | | F | 1 Ca. | | | | | | |
| 462 | 10 | | P | 10 42 29 | | | | | | |
| 463 | 10 | | P | 11 34 23 | | | | | | Sacudida local |
| | | | F | 37 - | | | | | | |



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 43 32m 33s
 Latitud S. } 16° 29' 43"
 Altura sobre el mar } 3658 m.
 Subsuelo: aluvi6n antiguo

SEPTIEMBRE de 1923

Mes de _____

| Instrumentos: | Péndulo horizontal Bifilar | Componente | Masa | To | A | c:1 | r |
|---------------|----------------------------|------------|------------|-----|------|-----|--------|
| | | | | | | | To² |
| | | N. S. | 2,000 kgs. | 14 | 180 | 4,6 | 0,0018 |
| | | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 |
| | | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| No. | Día | Fases | HORA | | Periodo | | Amplitud verdadera | | D stancia | NOTAS |
|-----|-----------------|---|--|--|---------|--|----------------------------------|----|--------------|---|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| 464 | 1923 12 Set. | P eS L _E L _N M F | 6 11 48 17 07 20 14 21 12 23 30 40 - | | S S | | μ μ | | Kms. 3340 | 0 6 05 05 Fuertes baro- sismos los dias 12 13 14 16. |
| 465 | 13 | P F | 16 36 45 50 - | | | | | | | |
| 466 | 14 | P F | 13 18 17 30 - | | | | | | | |
| 467 | 15 | P F | 18 36 38 45 - | | | | | | | |
| 468 | 15 | iP | 23 09 48 | | | | | | | |
| 469 | 16 | O P S L M M M M M M F | 15 31 18 15 40 33 47 55 55 54 58 30 59 34 16 00 18 02 00 03 06 07 36 30 - | | | 18 18 | 7 9 | | 4740 | |
| 470 | 16 | O 1P S _N S _E S _N L _N L _E M M L _{re} M M M M F | 16 34 32 16 54 33 17 08 35 03 45 16 45 50 24 50 54 57 36 58 44 07 20 12 06 13 44 23 18 27 31 19 20 - | | | 20 20 20 20 25 20 20 18 18 | 4,5 4,5 7 4 6 5,5 | | 17100 | |
| 471 | 16 | P | 21 46 16 | | | | | | | |
| 472 | 16 | P | 22 25 20 | | | | | | | |
| 473 | 17 | iP | 3 59 13 | | | | | | | |
| 474 | 17 | eP? L _E M M F | 7 35 07 8 14 54 19 28 21 36 9 Ca . | | | | | | 12000 | Fuertes baro- sismos. |



No.

JHS.

LA PAZ = (Bolivia)

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 4 32m 33s
 Latitud S. 16° 29' 43"
 Altura sobre el mar 3658 m.
 Subsuelo: aluvi6n antiguo

Mes de SEPTIEMBRE de 1923

Instrumentos: } Péndulo horizontal Bifilar
 » »
 » Vertical S. Calixto

| Componente | Masa | To | A | c:1 | r To² |
|------------|------------|-----|------|------|----------|
| N. S. | 2,000 kgs. | 14 | 180 | 4,6 | 0,0018 |
| E. W. | 450 » | 16 | 82 | 15,0 | 0,0017 |
| NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| No. | Día | Fases | HORA | | Período | | Amplitud verdadera | | Distancia | NOTAS |
|-----|--------------|---------------------------------------|--|--|----------------------------|----|----------------------|----|-----------|--|
| | | | Tiempo medio de Greenw. | | NS | EW | Am | Ac | | |
| | | | | | S | S | μ | μ | Kms. | |
| 475 | 18 Set. 1923 | eP? L M F | 4 24 22 32 55 34 28 50 - | | 15 | | 2,5 | | 3450 ? | |
| 476 | 19 | eP | 2 08 25 | | | | | | | Fuertes baro- sismos. |
| 477 | 21 | P S L M M M F | 20 38 00 38 41 39 00 39 24 39 46 40 36 21 10 .. | | 3 3 4 | | + 8 - 8 - 8 | | | |
| 478 | 22 | e(P) F | 15 15 13 28 - | | | | | | | |
| 479 | 22 | iP L L M M M M F | 21 09 03 43 54 47 24 51 18 52 20 53 54 56 12 22 50 .. | | 42 23 26 22 20 | | 33 34 29 17 | | | |
| 480 | 24 | P | 6 03 22 | | | | | | | |
| 481 | 26 | O iP S L M M F | 2 29 35 2 37 19 43 27 49 52 51 52 52 49 3 50 - | | 14 13 | | -15 +13 | | 4370 | Fuertes baro- sismos. |
| 482 | 26 | iP LE M M M M F | 8 37 38 9 33 52 37 58 42 40 56 37 10 04 00 30 - | | 20 20 20 | 18 | 5 5 5 | 4 | | Japon. |
| 483 | 27 | P L M F | 3 58 47 59 12 59 20 4 10 - | | | | | | | Fuertes barosismos |
| 484 | 27 | P F | 7 21 27 8 Ca . | | | | | | | F Fases difíciles de determinar por los fuertes barosismos. |



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Latitud S. 16° 29' 43"
Altura sobre el mar 3658 m.
Subsuelo: aluvión antiguo

Mes de SEPTIEMBRE de 1923

| Instrumentos: | Componente | Masa | To | | R | | c:1 | |
|--|------------|------------|-----|--|------|--|-----|--------|
| | | | | | | | | |
| Péndulo horizontal Bifilar > > > Vertical S. Calixto | N. S. | 2,000 kgs. | 14 | | 180 | | 4,6 | 0,0018 |
| | E. W. | 450 » | 16 | | 82 | | 5,0 | 0,0017 |
| | NS y EW | 1,500 » | 2,4 | | 1100 | | 2 | 0,0012 |

| No. | Día | Fases | HORA | | Período | | Amplitud verdadera | | D stancia | NOTAS |
|------------------------------|-----------------|---|-------------------------|---|--------------------------------|----|---------------------------------|-----|-----------|-------------|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| 485 | 1923 28 Set. | P | 11 | 14 46 | S | S | μ | μ | Kms. | |
| 486 | 28 | O iP iS L M M M M F | 21 | 00 18 05 51 10 16 13 29 15 54 16 30 16 54 20 04 22 30 - | 5 9 13 15 15 10 | | - 3 - 4 - 7 - 8 - 9 | -15 | 2760 | iP 21 05 51 |
| 487 | 29 | P | 15 | 57 21 | | | | | | |
| 488 | 30 | O iP iS iL M M M M | 1 | 20 45 32 47 42 36 46 40 59 18 00 44 03 48 3 25 - | 12 22 30 20 | | 7,5 24 56 37 | 34 | 8300 | |
| <u>O C T U B R E 1 9 2 3</u> | | | | | | | | | | |
| 489 | 1923 1 Oct. | eP L M M M F | 8 | 39 26 26 00 30 30 40 12 43 13 10 15 - | 20 20 20 | | 4 3 4 | | | |
| 490 | 1 | O iP S L M F | 15 | 31 58 37 45 42 21 45 48 47 57 16 10 - | 15 | | 2 | | 2910 | iP 15 37 45 |
| 491 | 1 | O eP iS L M F | 22 | 29 04 41 39 51 53 12 48 15 24 40 - | 20 | | 4,5 | | 9260 | |
| 492 | 3 | eP | 4 | 55 48 | | | | | | |
| 493 | 3 | iP L M M F | 6 | 02 11 02 42 02 51 03 00 10 - | 1 1 1 | | +13 +11 -13 | | | |



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 Latitud S. } 16° 29' 43"
 Altura sobre el mar } 3658 m.
 Subsuelo: aluvi6n antiguo

Mes de

OCTUBRE de 1923

| Instrumentos: | Componente | Masa | To | A | c:l | r |
|--|------------|------------|-----|------|-----|-----------------|
| | | | | | | To ² |
| } P6ndulo horizontal Bifilar » » » Vertical S. Calixto | N. S. | 2,000 kgs. | 14 | 180 | 4,8 | 0,0018 |
| | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 |
| | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| No. | Día | Fases | HORA | | | Período | | Amplitud verdadera | | Distancia | NOTAS |
|-----|----------------|--|-------------------------|----|----|---------|------|--------------------|----------------|------------|---|
| | | | Tiempo medio de Greenw. | | | NS | EW | A _N | A _E | | |
| | | | S | S | μ | μ | Kms. | | | | |
| 494 | 1923 4 Oct. | iP iS iL M M M M M M E E | 16 | 32 | 53 | | | | | | |
| | | | | | | 6 | | -40 | | | |
| | | | | | | 5 | 9 | -33 | -40 | | |
| | | | | | | 7 | | +40 | | | |
| | | | | | | 6 | | -28 | | | |
| | | | | | | | 12 | | -34 | | |
| | | | | | | 6 | | -28 | | | |
| | | | | | | 5 | | -29 | | | |
| | | | 17 | 37 | - | | | | | | |
| 495 | 5 | O eP L M M M M F | 1 | 02 | 49 | | | | | 3400 | |
| | | | 1 | 09 | 21 | | | | | | |
| | | | | 17 | 47 | | | | | | |
| | | | | 20 | 36 | 8 | | 2 | | | |
| | | | | 24 | 12 | 6 | | 2,5 | | | |
| | | | | 26 | 00 | 8 | | 2 | | | |
| | | | | 31 | 00 | 10 | | 2 | | | |
| | | | | 50 | - | | | | | | |
| 496 | 7 | iP L L M M M M M M M F | 3 | 49 | 52 | | | | | | 5 ^a por falta de señales horarias |
| | | | 4 | 36 | 15 | 34 | | 43 | | | |
| | | | | 37 | 50 | | 46 | | | | |
| | | | | 43 | 12 | | | | | | |
| | | | | 44 | 36 | 48 | | 133 | | | |
| | | | | 55 | 00 | 25 | | 30 | | | |
| | | | 5 | 07 | 48 | 26 | | 34 | | | |
| | | | | 18 | 12 | 28 | | 42 | | | |
| | | | | 23 | 18 | 20 | | 23 | | | |
| | | | | 27 | 00 | 28 | | 31 | | | |
| | | | 6 | 25 | - | | | | | | |
| 497 | 7 | O | 23 | 23 | 15 | | | | | P 21 23 15 | |
| 498 | 8 | O iP S L M M M F | 3 | 42 | 47 | | | | | 3140 | |
| | | | 3 | 43 | 57 | | | | | iP 3 47 57 | |
| | | | | 52 | 50 | | | | | | |
| | | | | 56 | 44 | | | | | | |
| | | | | 59 | 12 | 18 | | 3 | | | |
| | | | 4 | 00 | 04 | 15 | | 3 | | | |
| | | | | 03 | 36 | 12 | | 2,5 | | | |
| | | | | 30 | - | | | | | | |
| 99 | 8 | P F | 15 | 03 | 18 | | | | | | |
| | | | | 10 | - | | | | | | |
| 00 | 8 | O P L M M F | 18 | 39 | 56 | | | | | 4740 | |
| | | | 18 | 48 | 06 | | | | | | |
| | | | 19 | 00 | 43 | | | | | | |
| | | | | 03 | 44 | 9 | | 3 | | | |
| | | | | 05 | 18 | 8 | | 2,5 | | | |
| | | | 20 | 30 | - | | | | | | |
| 01 | 9 | eP | 18 | 24 | 18 | | | | | | |



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| Instrumentos: | Componente | Masa | To | | ε:1 | r To² |
|---|------------|------------|-----|------|-----|----------|
| | | | | A | | |
| { P6ndulo horizontal Bifilar » » » Vertical S. Calixto | N. S. | 2,000 kgs. | 14 | 180 | 4,8 | 0,0018 |
| | E. W. | 450 » | 16 | 82 | 5,0 | 0,0017 |
| | NS y EW | 1,500 » | 2,4 | 1100 | 2 | 0,0012 |

| No. | Día | Fases | HORA | | Período | | Amplitud verdadera | | Distancia | NOTAS |
|-----|-----------------|---|---|--|-----------------------------|----|---------------------------------|----|-----------------|-------|
| | | | Tiempo medio de Greenw. | | NS | EW | AN | AE | | |
| | | | | | S | S | μ | μ | Kms. | |
| 502 | 1923 10 Oct. | iP L M F | 2 08 28 08 54 09 04 15 - | | | | | | | |
| 503 | 10 | oP | 2 38 41 | | | | | | | |
| 504 | 10 | iP PR iS SR L M M M F | 7 25 00 28 47 37 32 42 27 55 57 8 00 09 01 15 05 00 45 - | | 30 26 20 | | 13 7 3 | | 12230 0 7 10 03 | |
| 505 | 10 | oP | 19 54 56 | | | | | | | |
| 506 | 11 | P | 12 39 40 | | | | | | | |
| 507 | 11 | iP | 12 45 55 | | | | | | | |
| 508 | 11 | P | 14 34 55 | | | | | | | |
| 509 | 11 | P | 16 02 45 | | | | | | | |
| 510 | 12 | iP L M F | 2 59 53 3 00 23 00 28 15 - | | 0,5 | | -76 | | | |
| 511 | 12 | oP S L M M F iP L | 7 22 48 24 35 25 18 26 38 27 22 40 - 23 35 43 36 20 36 28 37 06 37 12 | | 10 10 1 3 3 | | 2 2 -16 -19 -21 | | | |
| | | | | | 5 4 | | -5,5 -5 | | | |

Replica del anterior.