

INSTITUTO GEOGRAFICO NACIONAL
OBSERVATORIO GEOFISICO DE LOGROÑO
BOLETIN SISMICO PROVISIONAL

OCTUBRE - 1983
(1ª decena)

Naturaleza del terreno: Mioceno Lacustre

Coordenadas geográficas:

L = 42° 27' 28" Norte

M = 02° 30' 11,7" Oeste

Z = 445,50 metros

CONSTANTES DE LOS SISMOGRAFOS

| Aparatos | Período Péndulo | Período Galvan. | Amplificación Máxima |
|---------------|--------------------|--------------------|-------------------------|
| Stuttgart - Z | 1,30 | 1,30 | 7.500 |
| Stuttgart - N | 1,30 | 1,30 | 6.900 |
| Stuttgart - E | 1,21 | 1,21 | 8.700 |

| Núm. de orden | Día | Fase | Componente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | △ (Km) (Grad) | INFORMACION COMPLEMENTARIAS |
|---------------|-----|------|------------|------------|--------|-------------------|--------------|---------------|-----------------------------|
| 472 | 1 | eP | ZH | 13 10 54,0 | | | | | |
| | | eP | NH | 13 10 54,0 | | | | | |
| | | eP | EH | 13 10 54,0 | | | | | |
| 473 | 3 | eP | ZH | 13 47 09,0 | | | | | |
| | | eP | NH | 13 47 09,0 | | | | | |
| | | eP | EH | 13 47 09,0 | | | | | |
| 474 | 4 | eP | ZH | 19 05 29,0 | | | C. | 9.920 | |
| | | iPP | | 09 00,0 | | | | | |
| | | eSKS | | 15 58,0 | | | | | |
| | | eS | | 16 17,0 | | | | | |
| | | iPS | | 17 24,0 | | | | | |
| | | eP | NH | 19 05 29,0 | | | | | |
| | | iPP | | 09 00,0 | | | | | |
| | | eSKS | | 15 58,0 | | | | | |
| | | eS | | 16 17,0 | | | | | |
| | | iPS | | 17 24,0 | | | | | |
| | | eP | EH | 19 05 29,0 | | | | | |
| | | ePP | | 09 00,0 | | | | | |
| | | eSKS | | 15 58,0 | | | | | |
| | | eS | | 16 17,0 | | | | | |
| | | ePS | | 17 24,0 | | | | | |
| 475 | 4 | eP | ZH | 19 40 10,0 | | | | | |
| | | eP | NH | 19 40 10,0 | | | | | |
| | | eP | EH | 19 40 10,0 | | | | | |
| 476 | 6 | iP | ZH | 01 56 35,5 | 0.7 | 0.3 | C. | | |
| | | iP | NH | 01 56 35,5 | | | | | |
| | | eP | EH | 01 56 35,5 | | | | | |
| 477 | 6 | eP | ZH | 04 10 00,0 | | | | | |
| | | eP | NH | 04 10 00,0 | | | | | |
| | | eP | EH | 04 10 00,0 | | | | | |
| 478 | 6 | ePg | ZH | 04 24 34,0 | | | | 56 | Duración: 35" |
| | | iSg | | 24 40,5 | | | | | |
| | | iSn | | 24 47,5 | | | | | |
| | | ePg | NH | 04 24 34,0 | | | | | |
| | | iSg | | 24 40,5 | | | | | |
| | | iSn | | 24 47,5 | | | | | |
| | | ePg | EH | 04 24 34,0 | | | | | |
| | | iSg | | 24 40,5 | | | | | |
| | | iSn | | 24 47,5 | | | | | |
| 479 | 6 | iP | ZH | 10 10 38,5 | 1.0 | 0.2 | D. | | |
| | | eP | NH | 10 10 38,5 | | | | | |
| | | eP | EH | 10 10 38,5 | | | | | |

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| Núm. de orden | Día | Fase | Componente | Hora TMG | | | T seg. | Amplitud micrones | Dil. o comp. | △ (Km) (Grad) | INFORMACION COMPLEMENTARIAS |
|---------------|-----|--|------------------------|--|-----|------|--------|-------------------|--------------|---|-----------------------------|
| 480 | 6 | iP eS eP eS eP | ZH NH EH | 11 21 29,0 30 44,0 11 21 29,0 30 44,0 11 21 29,0 | | | | C. | 7.885 | | |
| 481 | 7 | ePn eSn iSg ePn eSn iSg ePn eSn iSg | ZH NH EH | 03 08 18,0 09 28,0 10 05,5 03 08 18,0 09 28,0 10 05,5 03 08 18,0 09 28,0 10 05,5 | | | | | 667 | Lg: T1.2 Ao.17 μ MAG. 3.8(LGR) Duración: 240" | |
| 482 | 7 | eP eP eP | ZH NH EH | 10 27 48,0 10 27 48,0 10 27 48,0 | | | | | | | |
| 483 | 7 | ePg iSg iSn ePg iSg iSn ePg iSg iSn | ZH NH EH | 12 46 12,0 46 18,7 46 25,5 12 46 12,0 46 18,7 46 25,5 12 46 12,0 46 18,7 46 25,5 | | | | | 57 | Lg: T1.0 Ao.25 μ MAG. 2.0 (LGR) Duración: 65" | |
| 484 | 8 | iP i eS iP eS eP eS | ZH NH EH | 07 57 01,2 59 03,0 08 06 24,0 07 57 01,2 08 06 24,0 07 57 01,2 08 06 24,0 | 1.1 | 0.65 | C | 8.030 | | | |
| 485 | 9 | ePn eSn iSg ePn eSn iSg ePn eSn eSg eSg | ZH NH EH | 08 09 54,0 10 52,5 11 20,5 08 09 54,0 10 52,5 11 20,5 08 09 54,0 10 52,5 11 20,5 | | | | | 550 | Duración: 170" | |

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|---------------|-----|-----------------|------------|----------------------------------|--------|-------------------|--------------|---------------|-----------------------------|
| 486 | 9 | iP ePP eS | ZH | 11 38 55,0 42 38,5 49 51,0 | | | | 10.120 | |
| | | eP eS | NH | 11 38 55,0 49 51,0 | | | | | |
| | | eP eS | EH | 11 38 55,0 49 51,0 | | | | | |
| 487 | 10 | iP iPP eS | ZH | 10 21 45,1 22 02,0 25 48,0 | 1.7 | 0.8 | C. | 2.502 | |
| | | eP ePP eS | NH | 10 21 45,1 22 02,0 25 48,0 | | | | | |
| | | eP eS | EH | 10 21 45,1 25 48,0 | | | | | |
| 488 | 10 | ePg eSg | ZH | 13 08 49,0 09 04,0 | | | | 128 | Duración: 65" |
| | | ePg eSg | NH | 13 08 49,0 09 04,0 | | | | | |
| | | ePg eSg | EH | 13 08 49,0 09 04,0 | | | | | |
| 489 | 10 | eP | ZH | 22 04 36,0 | | | | | |
| | | eP | NH | 22 04 36,0 | | | | | |
| | | eP | EH | 22 04 36,0 | | | | | |

E. Maza Larraz

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(2ª decena)

Naturaleza del terreno: Mioceno Lacustre

Coordenadas geográficas:

L = 42° 27' 28" Norte

M = 02° 30' 11,7" Oeste

Z = 445,50 metros

CONSTANTES DE LOS SISMOGRAFOS

| Aparatos | Período Péndulo | Período Galvan. | Amplificación Máxima |
|---------------|--------------------|--------------------|-------------------------|
| Stuttgart - Z | 1,30 | 1,30 | 7.500 |
| Stuttgart - N | 1,30 | 1,30 | 6.900 |
| Stuttgart - E | 1,21 | 1,21 | 8.700 |

| Núm. de orden | Día | Fase | Componente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | △ (Km) (Grad) | INFORMACION COMPLEMENTARIAS |
|---------------|-----|--------------------------|------------|---|--------|-------------------|--------------|---------------|--|
| 490 | 11 | iP ePP iS | ZH | 22 48 26,4 49 58,5 54 24,0 | | | C. | 4.303 | |
| | | eP ePP iS | NH | 22 48 26,4 49 58,5 54 24,0 | | | | | |
| | | eP eS | EH | 22 48 26,4 54 24,0 | | | | | |
| 491 | 12 | iP ePP | ZH | 03 51 35,6 54 38,0 | 1,7 | 0,5 | C. | 8.819 | |
| | | eP | NH | 03 51 35,6 | | | | | |
| | | eP | EH | 03 51 35,6 | | | | | |
| 492 | 12 | eP | ZH | 13 24 22,5 | | | | | |
| | | eP | NH | 13 24 22,5 | | | | | |
| | | eP | EH | 13 24 22,5 | | | | | |
| 493 | 12 | ePn ePg iSn iSg | ZH | 17 46 12,5 46 48,5 47 41,5 48 24,5 | | | | 856 | Lg: T1.2 Ao.22 MAG: 3,7 (LGR) Duración: 260" |
| | | ePn ePg iSn iSg | NH | 17 46 12,5 46 48,5 47 41,5 48 24,5 | | | | | |
| | | ePn ePg iSn eSg | EH | 17 46 12,5 46 48,5 47 41,5 48 24,5 | | | | | |
| 494 | 13 | iPg iSg iSn | ZH | 10 38 53,0 38 59,5 39 06,5 | | | C. | 56 | Lg: To.7 Ao.17 MAG: 2,0 (LGR) Duración: 50" |
| | | ePg iSg iSn | NH | 10 38 53,0 38 59,5 39 06,5 | | | | | |
| | | ePg iSg iSn | EH | 10 38 53,0 38 59,5 39 06,5 | | | | | |
| 495 | 13 | eP | ZH | 12 29 36,5 | | | | | |
| | | eP | NH | 12 29 36,5 | | | | | |
| | | eP | EH | 12 29 36,5 | | | | | |
| 496 | 13 | iP iPP eS | ZH | 13 15 10,0 16 59,0 21 58,0 | 1,3 | 0,48 | C. | 5.160 | |

| Núm. de orden | Día | Fase | Componente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | △ (Km) (Grad) | INFORMACION COMPLEMENTARIAS |
|---------------|-----|---|----------------|--|--------|-------------------|--------------|---------------|---|
| | 13 | eP ePP eS | NH | 13 15 10,0 16 59,0 21 58,0 | | | | | |
| | | EP eS | EH | 13 15 10,0 21 58,0 | | | | | |
| 497 | 13 | eP eP eP | ZH NH EH | 23 36 05,0 23 36 05,0 23 36 05,0 | | | | | |
| 498 | 15 | | ZH | Registro interrumpido | | | | 9.100 | |
| | | eP ePP eP | NH NH EH | 11 16 30,0 19 39,0 11 16 30,0 | | | | | |
| 499 | 16 | eP eP eP | ZH NH EH | 10 12 44,0 10 12 44,0 10 12 44,0 | | | D. | | |
| 500 | 17 | ePKP ePKP ePKP | ZH NH EH | 13 45 29,0 13 45 29,0 13 45 29,0 | | | | | |
| 501 | 17 | ePg iSg iSn ePg iSg iSn ePg iSg iSn | ZH NH EH | 15 20 16,3 20 24,7 20 30,8 15 20 16,3 20 24,7 20 30,8 15 20 16,3 20 24,7 20 30,8 | | | | 72 | Lg: To.5 Ao.32 MAG: 2,6 (LGR) Duración: 60" |
| 502 | 17 | 1P 1S 1P 1S 1P 1S | ZH NH EH | 19 39 18,6 41 31,6 19 39 18,6 41 31,6 19 39 18,6 41 31,6 | | | D. | 1.301 | |
| 503 | 18 | ePg eSg iSn ePg eSg iSn ePg eSg iSn | ZH NH EH | 09 24 14,5 24 23,0 24 29,0 09 24 14,5 24 23,0 24 29,0 09 24 14,5 24 23,0 24 29,0 | | | | 74 | Duración: 40" |

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Coordenadas geográficas:

L = 42° 27' 28" Norte

M = 02° 30' 11,7" Oeste

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CONSTANTES DE LOS SISMOGRAFOS

| Aparatos | Período Péndulo | Período Galvan. | Amplificación Máxima |
|---------------|--------------------|--------------------|-------------------------|
| Stuttgart - Z | 1,30 | 1,30 | 7.500 |
| Stuttgart - N | 1,30 | 1,30 | 6.900 |
| Stuttgart - E | 1,21 | 1,21 | 8.700 |

| Núm. de orden | Día | Fase | Componente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | Δ (Km) (Grad) | INFORMACION COMPLEMENTARIAS |
|---------------|-----|------------------------------|----------------|--|--------|-------------------|--------------|----------------------|--|
| 507 | 21 | ePg eSg iSn | ZH | 11 58 52,6 59 03,0 59 07,6 | | | | 89 | Lg:T1.2 Ao.8o MAG. 2,7 (LGR) Duración: 70" |
| | | ePg eSg iSn | NH | 11 58 52,6 59 03,0 59 07,6 | | | | | |
| | | ePg eSg iSn | EH | 11 58 52,6 59 03,0 59 07,6 | | | | | |
| 508 | 21 | eP ePP eS | ZH | 20 40 07,5 40 47,5 44 41,0 | | | | 2.958 | |
| | | eP ePP eS | NH | 20 40 07,5 40 47,5 44 41,0 | | | | | |
| | | eP eS | EH | 20 40 07,5 44 41,0 | | | | | |
| 509 | 22 | eP e iPP eSKS eS | ZH | 04 35 50,5 39 09,5 40 07,5 46 31,5 47 45,0 | | | | 11.850 | |
| | | eP ePP eSKS eS | NH | 04 35 50,5 40 07,5 46 31,5 47 45,0 | | | | | |
| | | eP ePP eS | EH | 04 35 50,5 40 07,5 47 45,0 | | | | | |
| 510 | 22 | e(PP) e e | ZH NH EH | 13 26 05,0 13 26 05,0 13 26 05,0 | | | | | |
| 511 | 23 | eP eP eP | ZH NH EH | 03 20 00,0 03 20 00,0 03 20 00,0 | | | | | |
| 512 | 23 | iP eP eP | ZH NH EH | 04 57 40,0 04 57 40,0 04 57 40,0 | | | C. | | |
| 513 | 24 | eP eP eP | ZH NH EH | 00 48 37,0 00 48 37,0 00 48 37,0 | | | | | |

| Núm. de orden | Día | Fase | Componente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | Δ (Km) (Grad) | INFORMACION COMPLEMENTARIAS |
|---------------|-----|-------------------|------------|-------------------------------------|--------|-------------------|--------------|----------------------|--|
| 514 | 24 | ePg iSg | ZH | 15 25 37,5 25 52,5 | | | | 128 | Duración: 65" |
| | | ePg iSg | NH | 15 25 37,5 25 52,5 | | | | | |
| | | ePg eSg | EH | 15 25 37,5 25 52,5 | | | | | |
| 515 | 25 | e | ZH | 00 55 36,5 | | | | | |
| | | e | NH | 00 55 36,5 | | | | | |
| | | e | EH | 00 55 36,5 | | | | | |
| 516 | 25 | ePn eSn | ZH | 15 49 14,0 49 39,0 | | | | 211 | Duración: 65" |
| | | ePn eSn | NH | 15 49 14,0 49 39,0 | | | | | |
| | | ePn eSn | EH | 15 49 14,0 49 39,0 | | | | | |
| 517 | 26 | iP | ZH | 02 04 34,5 | 0.9 | 0.4 | C | | |
| | | iP | NH | 02 04 34,5 | | | | | |
| | | iP | EH | 02 04 34,5 | | | | | |
| 518 | 26 | iPg iSg iSn | ZH | 15 59 48,1 59 56,3 16 00 02,5 | | | C. | 71 | Lg: To.7 Ao.32 MAG.2,4 (LGR) Duración: 65" |
| | | iPg iSg iSn | NH | 15 59 48,1 59 56,3 16 00 02,5 | | | | | |
| | | iPg iSg iSn | EH | 15 59 48,1 59 56,3 16 00 02,5 | | | | | |
| 519 | 27 | ePn eSn | ZH | 12 56 53,0 57 15,0 | | | | 175 | Duración: 80" |
| | | ePn eSn | NH | 12 56 53,0 57 15,0 | | | | | |
| | | ePn eSn | EH | 12 56 53,0 57 15,0 | | | | | |
| 520 | 27 | ePKP | ZH | 20 02 36,5 | | | | | |
| | | ePKP | NH | 20 02 36,5 | | | | | |
| | | ePKP | EH | 20 02 36,5 | | | | | |
| 521 | 28 | eP eS | ZH | 05 13 00,0 16 52,6 | | | | 2.370 | |
| | | eP eS | NH | 05 13 00,0 16 52,6 | | | | | |
| | | eP | EH | 05 13 00,0 | | | | | |

| Núm. de orden | Día | Fase | Componente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | △ (Km) (Grad) | INFORMACION COMPLEMENTARIAS |
|---------------|-----|---|--|--|--------|-------------------|--------------|---------------|-----------------------------|
| 522 | 28 | ePKP ePKP ePKP | ZH NH EH | 06 17 09,0 06 17 09,0 06 17 09,0 | | | | | |
| 523 | 28 | iP iPP iS eP iPP iS iP iPP eS | ZH NH EH | 14 17 46,0 20 42,5 27 24,5 14 17 46,0 20 42,5 27 24,5 14 17 46,0 20 42,5 27 24,5 | 1.3 | 1.4 | C. | 8.375 | |
| 524 | 28 | iP eP eP | ZH NH EH | 20 03 05,0 20 03 05,0 20 03 05,0 | | | | D. | |
| 525 | 29 | iP eP eP | ZH NH EH | 23 50 46,0 23 50 46,0 23 50 46,0 | | | | D. | |
| 526 | 30 | iP eP eP | ZH NH EH | 01 55 17,0 01 55 17,0 01 55 17,0 | | | | D. | |
| 527 | 30 | iP i iPP ePPP iS eP i iPP ePPP iS eP ePP iS | ZH NH EH | 04 19 07,5 19 11,0 20 18,2 20 41,2 24 35,0 04 19 07,5 19 11,0 20 18,2 20 41,2 24 35,0 04 19 07,5 20 18,2 24 35,0 | | | D. | 3.803 | |
| 528 | 30 | eP eP eP | ZH NH EH | 12 47 04,0 12 47 04,0 12 47 04,0 | | | | | |
| 529 | 31 | ePKP ePP ePPP ePKP ePP ePPP | ZH NH | 17 56 40,0 58 22,0 18 00 58,0 17 56 40,0 58 22,0 18 00 58,0 | | | | 13.640 | |

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|---------------|-----|-------------|------------|-----------------------|--------|-------------------|--------------|----------------------|-----------------------------|
| | 31 | eFKP ePP | EH | 17 56 40,0 58 22,0 | | | | | |
| 530 | 31 | eP | ZH | 23 31 57,0 | | | | | |
| | | eP | NH | 23 31 57,0 | | | | | |
| | | eP | EH | 23 31 57,0 | | | | | |
| | | | | | | E. Maza Lerraz | | | |