

OBSERVATORIO GEOFISICO DE LOGROÑO

Registro de las Observaciones correspondientes al mes de ABRIL de 1972.

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 Galv. | Amplificación Máxima |
|---------------|--------------------|------------------|-------------------------|
| Stuttgart - Z | 1,30 | 1,30 | 7.500 |
| Stuttgart - N | 1,30 | 1,30 | 6.900 |
| Stuttgart - E | 1,30 | 1,30 | 7.600 |

Parado a helio

| Núm. de orden | Día | Fase | Componente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | Δ (Km.) (Grad.) | INFORMACIONES COMPLEMENTARIAS |
|---------------|-----|--|------------|----------------------------------|--------|-------------------|--------------|-----------------|---|
| 69 | 1 | ePg iSg | EH | 16 59 05 16 59 11,5 | | | | 56 | |
| | | ePg eSg | NH | 16 59 05 16 59 11,5 | | | | | |
| | | ePg iSg | ZH | 16 59 05 16 59 11,5 | | | - | | |
| 70 | 2 | ePKP ePKP ₂ ePP ₂ | EH | 00 11 29 00 12 26 00 16 14 | | | | 18320 | Tl. 10-001127 Mg. 10-001125-283-18250 Ebro. 35-001126-292-18500 Ali. 35-001125-284-18300 Alm. 35-001123-283 |
| | | ePKP iPKP ₂ iPP ₂ | NH | 00 11 29 00 12 26 00 16 14 | | | | | |
| | | iPKP iPKP ₂ iPP ₂ | ZH | 00 11 29 00 12 26 00 16 14 | | | Dil. | | |
| 71 | 2 | iSn eSg | EH | 01 18 28 01 18 05 | | | | 667 | Tl. 52-011653-80-334 Mg. 02-011605-13-110 Alm. 05-011634-35-315 Ebro. 99-01-1900 |
| | | iSn eSg | NH | 01 18 28 01 18 05 | | | | | |
| | | iSn eS* eSg | ZH | 01 18 28 01 18 48 01 18 05 | | | - | | |
| 72 | 2 | ePKP ₁ iPKP ₂ ePP ₂ | EH | 09 21 13 09 21 30 09 25 02 | | | | 16847 | Mg. 10-092118-253 Tl. 35-092139 Alm. 97-092120 Ali. 72-092119 Ebro. 96-092128 |
| | | ePKP ₁ iPKP ₂ ePP ₂ | NH | 09 21 13 09 21 30 09 25 02 | | | | | |
| | | iPKP ₁ iPKP ₂ ePP ₂ | ZH | 09 21 13 09 21 30 09 25 02 | | | Dil. | | |
| 73 | 2 | ePKP iPKP ₂ iPP ₂ | EH | 21 49 49 21 49 56 21 53 23 | | | | 16446 | Alm. 97-214959 Fabra- 35-214959 Ebro. 96-214952 |
| | | ePKP iPKP ₂ iPP ₂ | NH | 21 49 49 21 49 56 21 53 23 | | | | | |
| | | ePKP iPKP ₂ iPP ₂ | ZH | 21 49 49 21 49 56 21 53 23 | | | Dil | | |

| Núm. de orden | Día | Fase | Compo- nente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | Δ (Km.) (Grad.) | INFORMACIONES COMPLEMENTARIAS |
|---------------|-----|----------|-----------------|----------|-----------|----------------------|--------------------|-----------------------|--|
| 74 | 3 | eP | EH | 09 16 05 | | | | | Mg. 20-091621 |
| | | eP | NH | 09 16 05 | | | | | |
| | | iP | ZH | 09 16 05 | | | Dil | | |
| 75 | 3 | eP | EH | 18 58 16 | | | | 2669 | Tl. 05 185826-236-2445 Mg. 30-185844-246-2520 Ebro. 30-185843-267-2860 Alm. 97-185954 |
| | | ePP | | 18 58 50 | | | | | |
| | | eS | | 19 02 31 | | | | | |
| | | iP | NH | 18 58 16 | | | | | |
| | | iPP | | 18 58 50 | | | | | |
| | | iS | | 19 02 31 | | | | | |
| | | iP | ZH | 18 58 16 | | | Dil | | |
| | | iPP | | 18 58 50 | | | | | |
| | | ePcP | | 19 02 00 | | | | | |
| | | eS | | 19 02 31 | | | | | |
| 76 | 3 | iP | EH | 20 41 40 | | | | 2.680 | Tl. 05 204148-244-2555 Mg. 30-204208-228-2130 Alm. 97-204218 Ebro. 80-204205-267-2860 |
| | | iPP | | 20 42 14 | | | | | |
| | | iPPP | | 20 42 24 | | | | | |
| | | eS | | 20 45 56 | | | | | |
| | | iP | NH | 20 41 40 | | | | | |
| | | iPP | | 20 42 14 | | | | | |
| | | eS | | 20 45 56 | | | | | |
| | | iP | ZH | 20 41 40 | | | Dil | | |
| | | iPP | | 20 42 14 | | | | | |
| ePPP | | 20 42 24 | | | | | | | |
| | | ePcP | | 20 45 23 | | | | | |
| | | eS | | 20 45 56 | | | | | |
| 77 | 4 | iPKP | EH | 23 01 19 | | | | 13822 | Tl. 06 230124 Mg. 22 230126 Alm. 47 230123 Ali. 22 230120 |
| | | iPP | | 23 03 07 | | | | | |
| | | iPKS | | 23 04 54 | | | | | |
| | | iPKP | NH | 23 01 19 | | | | | |
| | | ePP | | 23 03 07 | | | | | |
| | | iPKS | | 23 04 54 | | | | | |
| iPKP | ZH | 23 01 19 | | | Dil. | | | | |
| iPP | | 23 03 07 | | | | | | | |
| iPKS | | 23 04 54 | | | | | | | |

| Núm. de orden | Día | Fase | Compo- nente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | Δ (Km.) (Grad.) | INFORMACIONES COMPLEMENTARIAS |
|---------------|-----|--------------------------------|-----------------|----------|-----------|----------------------|--------------------|--|---|
| 78 | 5 | ePn ePg eSn iSg | EH | 04 11 35 | | | | 467 | Mg. 76 041109 Tl. 51 041107 Alm. 80 041041 24 Ali 02 041016 6 45 Ebro 51 041106 262 |
| | | | | 04 11 52 | | | | | |
| | | | | 04 12 26 | | | | | |
| | | | | 04 12 47 | | | | | |
| | | ePn ePg eSn iSg | NH | 04 11 35 | | | | | |
| | | | | 04 11 52 | | | | | |
| | | | | 04 12 26 | | | | | |
| | | | | 04 12 47 | | | | | |
| | | ePn eSn eSg | ZH | 04 11 35 | | | | | |
| | | | | 04 12 26 | | | | | |
| | | | | 04 12 47 | | | | | |
| | | | | | | | | | |
| 79 | 9 | iP | EH | 04 21 04 | | | | Tl. 20 042122 Ebro 45 042059 Mg. 20 042134 | |
| | | eP | NH | 04 21 04 | | | | | |
| | | iP | ZH | 04 21 04 | | | | | Dil |
| 80 | 10 | eP iPcP iPP iS | EH | 02 15 19 | | | | 5.282 | Mg. 05 021533 435 5630 Tl. 05 021529 409 5220 Alm. 30 021520 434 560 Ebro 30 021501 394 490 |
| | | | | 02 16 10 | | | | | |
| | | | | 02 17 10 | | | | | |
| | | | | 02 22 14 | | | | | |
| | | eP iPcP iPP eS | NH | 02 15 19 | | | | | |
| | | | | 02 16 10 | | | | | |
| | | | | 02 17 10 | | | | | |
| | | | | 02 22 14 | | | | | |
| | | iP iPcP iPP iS | ZH | 02 15 19 | | | | | |
| | | | | 02 16 10 | | | | | |
| | | | | 02 17 10 | | | | | |
| | | | | 02 22 14 | | | | | |
| 81 | 10 | eP | EH | 14 12 57 | | | | | |
| | | eP | NH | 14 12 57 | | | | | |
| | | iP | ZH | 14 12 57 | | | | | Dil |
| 82 | 11 | iP iPcP iPP iS | EH | 02 29 49 | | | | 5226 | Tl. 05 022927 399 5055 Alm 30 022914 387 4790 Ebro 30 022949 412 Mg. 05 022906 394 4950 Ali. 06 022933 106 5100 |
| | | | | 02 31 22 | | | | | |
| | | | | 02 31 39 | | | | | |
| | | | | 02 36 41 | | | | | |
| | | eP ePcP iPP iS iPS | NH | 02 29 49 | | | | | |
| | | | | 02 31 22 | | | | | |
| | | | | 02 31 39 | | | | | |
| | | | | 02 36 41 | | | | | |
| | | | | 02 36 47 | | | | | |

| Núm. de orden | Día | Fase | Componente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | Δ (Km.) (Grad.) | INFORMACIONES COMPLEMENTARIAS |
|---------------|-----|--|--|--|--------|-------------------|--------------|---|--|
| | | iP ePcP iPP eS iPS | ZH | 02 29 49 02 31 22 02 31 39 02 36 41 02 36 47 | | | Dil | | |
| 83 | 13 | eP eP iP | EH NH ZH | 16 10 14 16 10 14 16 10 14 | | | Dil | | |
| 84 | 13 | eP eP eP | EH NH ZH | 17 55 25 17 55 25 17 55 25 | | | | | |
| 85 | 13 | ePg iSg ePg eSg iPg eSg | EH NH ZH | 17 59 03 17 59 18 17 59 03 17 59 18 17 59 03 17 59 18 | | | 128 | | |
| 86 | 14 | ePn iPg iSn iS* iSg iPn ePg iSn iSg iPn iSn iSg | EH NH ZH | 03 23 35 03 23 52 03 24 26 03 24 37 03 24 47 03 23 35 03 23 52 03 24 26 03 24 47 03 23 35 03 24 26 03 24 47 | | | 462 | Tl.- 02 03230635 302 Alm. 80 032247 27 228 Ebro. 77 032300 32 272 Ali. 02 032229 11 94 Mg. 26 032305 58 385 | |
| 87 | 14 | ePn ePn ePn | EH NH ZH | 08 56 00 08 56 00 08 56 00 | | | | | Ali. 02 085511 11 94 Ebro. 76 085554 Mg. 26 085600 |

| Núm. de orden | Día | Fase | Componente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | Δ (Km.) (Grad.) | INFORMACIONES COMPLEMENTARIAS |
|---------------|-----|---------------------------------|------------|----------|--------|-------------------|--------------|-----------------|---|
| 88 | 16 | eP ePP eS iSS | EH | 10 13 24 | | | | 1.560 | Tl. 20 101357 Ebro 72 101309 Mg. 72 101436 |
| | | | | 10 13 35 | | | | | |
| | | | | 10 16 01 | | | | | |
| | | | | 10 16 17 | | | | | |
| | | eP ePP eS iSS | NH | 10 13 24 | | | | | |
| | | | | 10 13 35 | | | | | |
| | | | | 10 16 01 | | | | | |
| | | | | 10 16 17 | | | | | |
| | | eP ePP eS eSS | ZH | 10 13 24 | | | | | |
| | | | | 10 13 35 | | | | | |
| | | | | 10 16 01 | | | | | |
| | | | | 10 16 17 | | | | | |
| 89 | 18 | ePn ePg iSn eS* iSg | EH | 01 01 17 | | | | 250 | Ebro. 52 010125 26 220 |
| | | | | 01 01 23 | | | | | |
| | | | | 01 01 46 | | | | | |
| | | | | 01 01 49 | | | | | |
| | | ePn iSn iS* iSg | NH | 01 01 17 | | | | | |
| | | | | 01 01 46 | | | | | |
| | | | | 01 01 49 | | | | | |
| | | | | 01 01 52 | | | | | |
| | | ePn eSn eSg | ZH | 01 01 17 | | | | | |
| | | | | 01 01 46 | | | | | |
| | | | | 01 01 46 | | | | | |
| | | | | 01 01 52 | | | | | |
| 90 | 18 | iP ePP iPPP iS iSS | EH | 05 54 02 | | | | 923 | Tl. 05 055329 71 673 Mg. 05 055315 59 556 Ebro 05 055418 107 1035 Alm 05 055335 72 687 |
| | | | | 05 54 10 | | | | | |
| | | | | 05 54 17 | | | | | |
| | | | | 05 55 38 | | | | | |
| | | | | 05 55 50 | | | | | |
| | | eP iPP iPPP iS | NH | 05 54 02 | | | | | |
| | | | | 05 54 10 | | | | | |
| | | | | 05 54 17 | | | | | |
| | | | | 05 55 38 | | | | | |
| | | iP ePP iPPP iS eSS | ZH | 05 54 02 | | | | | |
| | | | | 05 54 10 | | | | | |
| | | | | 05 54 17 | | | | | |
| 05 55 38 | | | | | | | | | |
| 91 | 19 | e (P) | EH | 08 28 49 | | | | | |
| | | i (P) | NH | 08 28 49 | | | | | |
| | | e (P) | ZH | 08 28 49 | | | | | |

| Núm. de orden | Día | Fase | Componente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | Δ (Km.) (Grad.) | INFORMACIONES COMPLEMENTARIAS |
|---------------|-----|------------|------------|-----------------------|--------|-------------------|--------------|-----------------|---|
| 92 | 19 | eP | EH | 12 39 50 | | | | | |
| | | eP | NH | 12 39 50 | | | | | |
| | | eP | ZH | 12 39 50 | | | Dil | | |
| 93 | 20 | ePg | EH | 11 51 02 | | | | 117 | |
| | | eSg | | 11 51 16 | | | | | |
| | | ePg | NH | 11 51 02 | | | | | |
| | | eSg | | 11 51 16 | | | | | |
| | | ePg | ZH | 11 51 02 | | | | | |
| | | eSg | | 11 51 16 | | | — | | |
| 94 | 20 | ePg | eH | 12 35 57 | | | | 150 | |
| | | iSg | | 12 36 16 | | | | | |
| | | ePg | NH | 12 35 57 | | | | | |
| | | eSg | | 12 36 16 | | | | | |
| | | iPg | ZH | 12 37 57 | | | | | |
| | | eSg | | 12 36 16 | | | Dil | | |
| 95 | 21 | iP | EH | 01 40 24 | | | | | Tl. 05 014037 615 9220 Ebro 80 014033 613 9095 Mg. 05 014051 637 9630 Santiago 97 014019 |
| | | | NH | Registro Interrumpido | | | | | |
| | | iP | ZH | 01 40 24 | | | Comp | | |
| 96 | 21 | eP | EH | 13 44 59 | | | | | Tl. 85 134532 Ebro 85 134520 234 1698 Mg. 35 134535 Santiago. 72 134508 |
| | | eP | NH | 13 44 59 | | | | | |
| | | iP | ZH | 13 44 59 | | | Comp | | |
| 97 | 21 | ePg | EH | 17 57 05 | | | | 122 | Ebro; 99 175838 |
| | | iSg | | 17 57 19 | | | | | |
| | | iSn | | 17 57 21,7 | | | | | |
| | | iPg | NH | 17 57 05 | | | | | |
| | | iSg | | 17 07 19 | | | | | |
| | | iSn | | 17 57 21,7 | | | | | |
| iPg | ZH | 17 57 05 | | | | | | | |
| iSg | | 17 57 19 | | | Dil. | | | | |
| iSn | | 17 57 21,7 | | | | | | | |

| Núm. de orden | Día | Fase | Componente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | Δ (Km.) (Grad.) | INFORMACIONES COMPLEMENTARIAS |
|---------------|-----|---------------------------------|------------|--|--------|-------------------|--------------|-----------------|-------------------------------|
| 98 | 22 | ePg iSg iSn | EH | 00 09 58 00 10 04,5 00 10 11,4 | | | | 56 | |
| | | ePg iSg iSn | NH | 00 09 58 00 10 04,5 00 10 11,4 | | | | | |
| | | iPg iSg eSn | ZH | 00 09 58 00 10 04,5 00 10 11,4 | | | Dil. | | |
| 99 | 24 | eP | EH | 02 23 55 | | | | | Tl. 22 022305 |
| | | eP | NH | 02 23 55 | | | | | Mg. 47 022318 |
| | | iP | ZH | 02 23 55 | | | Comp | | Ebro; 47 022402 |
| 100 | 24 | eP iPP eS | EH | 10 10 50 10 14 44 10 22 05 | | | | 10640 | Ali; 81 101051 242 1090 |
| | | eP iPP eSKS eS ePS | NH | 10 10 50 10 14 44 10 21 26 10 22 05 10 23 29 | | | | | Tl; 05 101102 698 1139 |
| | | iP iPP eS iPS | ZH | 10 10 50 10 14 44 10 22 05 10 23 39 | | | Dil | | Ebro; 06 101044 232 10575 |
| | | | | | | | | | Alm; 80 101058 649 9940 |
| | | | | | | | | | Mg; 06 101110 |
| 101 | 24 | ePg iSg iSn | EH | 13 52 37 13 52 46 13 52 51,5 | | | | 78 | |
| | | ePg eSg iSn | NH | 13 52 37 13 52 46 13 52 51,5 | | | | | |
| | | ePg eSg eSn | ZH | 13 52 37 13 52 46 13 52 51,5 | | | — | — | |
| 102 | 25 | eP iPP ePPP iSKS eS | EH | 19 44 08 19 48 29 19 50 42 19 54 48 19 55 56 | | | | 11.580 | Tl; 05 194418 705 1195 |
| | | | | | | | | | Mg; 06 194426 276 1212 |
| | | | | | | | | | Ali; 81 194413 260 1155 |
| | | | | | | | | | Ebro; 31 194400 264 11700 |
| | | | | | | | | | Alm; 56 194423 259 1153 |

| Núm. de orden | Día | Fase | Componente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | Δ (Km.) (Grad.) | INFORMACIONES COMPLEMENTARIAS |
|---------------|-----|--------------------------------|------------|------------|--------|-------------------|--------------|---|-------------------------------|
| 102 | 25 | eP iPP iSKS iS eL | NH | 19 44 08 | | | | | |
| | | | | 19 48 29 | | | | | |
| | | | | 19 54 48 | | | | | |
| | | | | 19 55 56 | | | | | |
| | | | | 20 19 38 | | | | | |
| | | eP iPP eSKS eS iPS | ZH | 19 44 08 | | | Dil. | | |
| | | | | 19 48 29 | | | | | |
| | | | | 19 54 48 | | | | | |
| | | | | 19 55 56 | | | | | |
| | | | | 19 57 37 | | | | | |
| 104 | 26 | ePg eSg iSn | EH | 15 24 58 | | | | 72 | |
| | | | | 15 25 06,4 | | | | | |
| | | | | 15 25 12 | | | | | |
| | | ePg iSg iSn | NH | 15 24 58 | | | | | |
| | | | | 15 25 06,4 | | | | | |
| | | | | 15 25 12 | | | | | |
| | | iPg eSg iSn | ZH | 15 24 58 | | | Comp | | |
| | | | | 15 25 06,4 | | | | | |
| | | | | 15 25 12 | | | | | |
| 103 | 26 | i (S) | EH | 01 55 32 | | | | Tl; 52 015309 Mg; 02 015221 11 97 | |
| | | g (S) | NH | 01 55 32 | | | | | |
| | | e (S) | ZH | 01 55 32 | | | | | |
| 105 | 26 | iP | EH | 16 04 38 | | | | Tl; 70 160454 Mg; 72 160504 Ebro; 99 160411 | |
| | | eP | NH | 16 04 38 | | | | | |
| | | iP | ZH | 16 04 38 | | Comp | | | |
| 106 | 27 | ePn iSn | EH | 11 52 33 | | | | 122 | |
| | | | | 11 52 49 | | | | | |
| | | ePn iSn | NH | 11 52 33 | | | | | |
| | | | | 11 52 49 | | | | | |
| | | ePn iSn | ZH | 11 52 33 | | | Dil. | | |
| | | | | 11 52 49 | | | | | |
| 107 | 28 | iPg iSg iSn | EH | 12 04 08 | | | | 52 | |
| | | | | 12 04 14 | | | | | |
| | | | | 12 04 21 | | | | | |
| | | | | | | | | | |

| Núm. de orden | Día | Fase | Componente | Hora TMG | T seg. | Amplitud micrones | Dil. o comp. | Δ (Km.) (Grad.) | INFORMACIONES COMPLEMENTARIAS |
|---------------|-----|-------------------------|------------|--|--------|-------------------|--------------|-----------------|--|
| 107 | 28 | ePg iSg iSn | NH | 12 04 08 12 04 14 12 04 21 | | | | | |
| | | ePg iSg iSn | ZH | 12 04 08 12 04 14 12 04 21 | | | | | |
| 108 | 28 | eP | EH | 12 29 22 | | | | | |
| | | eP | NH | 12 29 22 | | | | | |
| | | eP | ZH | 12 29 22 | | | | | |
| 109 | 28 | iP iPP ePPP eS | EH | 23 50 38 23 53 42 23 55 33 00 00 43 | | | | 8.930 | Tl; 06 235043 186 9665 Ebro; 06 235036 186 8.990 Ali; 56 235046 185 9.000 Mg; 06 235053 191 9.185 Santiago; 56 235045 194 9.320 |
| | | iP iPP iPPP eS | NH | 23 50 38 23 53 42 23 55 33 00 00 43 | | | | | |
| | | iP iPP ePPP eS | ZH | 23 50 38 23 53 42 23 55 33 00 00 43 | | | Comp. | | |
| 110 | 29 | ePg iSg | EH | 12 44 42 12 44 48 | | | | 52 | |
| | | ePg iSg | NH | 12 44 42 12 44 48 | | | | | |
| | | ePg | ZH | 12 44 42 | | | — | | |
| 111 | 29 | iP | EH | 18 34 33 | | | | | Tl; 70 183443 Mg; 72 183454 Ebro; 97 183410 |
| | | eP | NH | 18 34 33 | | | | | |
| | | iP | ZH | 18 34 33 | | | Comp. | | |
| | | | | | | | | | E. Maza |

