

OBSERVATORIO GEOPISICO DE LOGROÑO

Registro de las observaciones correspondientes al mes de Setiembre de 1972.

Naturaleza del terreno: Mioceno Lacustre

Coordenadas geográficas

L = 42° 27' 28"

M = 02° 30' 11",7 Oeste

Z = 445,50 metros

CONSTANTES DE LOS SISMOGRAFOS

<u>Aparatos</u>	<u>Periodo Péndulo</u>	<u>Periodo Galv.</u>	<u>Amplificación Máxima</u>
Stuttgart-Z	1,30	1,30	7.500
Stuttgart-N	1,30	1,30	6.900
Stuttgart-E	1,30	1,30	7.600

Núm. de orden	Día	Fase	Componente	Hora TMG	T seg.	Amplitud micrones	Dil. o comp.	Δ (Km.) (Grad.)	INFORMACIONES COMPLEMENTARIAS
305	1	ePKP	EH	13 06 56	--	--		16.47	Tl.72 130653 Stgo.47 130657 Ebro.97 130656 Fabra.47 130652
		iPKP	NH	13 06 56	--	--			
		iPKP <sub>2</sub>		13 07 04	--	--			
		iPP <sub>2</sub>		13 10 30	--	--			
		iPKP	ZH	13 06 56	--	--	Comp.		
		iPKP <sub>2</sub> ePP <sub>2</sub>		13 07 04 13 10 30	-- --	-- --			
306	2	eP	EH	02 03 05	--	--		10.53	Tl.30 020317 684 10980 Mg.72 020330 632 Ebro.95 020302
			NH	Registro interrumpido					
		iP ePP	ZH	02 03 05 02 06 55	-- --	-- --	Comp		
307	2	eP	EH	14 58 05	--	--		2.102	Tl.05 145803 204 2080 Mg.05 145755 197 1970 Eb.30 145729 171 1700 Alm.55 145737 198 1990 Ali.80 145725 185 1850 Stg.95 145850
		ePP		14 58 21	--	--			
		ePPP		14 58 30	--	--			
		eS		15 01 33	--	--			
		iP	NH	14 58 05	--	--			
		iPP		14 58 21	--	--			
		iPPP		14 58 30	--	--			
		eS		15 01 33	--	--			
		iP	ZH	14 58 05	--	--	Comp		
		iPP		14 58 21	--	--			
		ePPP		14 58 30	--	--			
		iS iPcP		15 01 33 15 02 32	-- --	-- --			
308	3	eP	EH	08 43 52	--	--			Tl.97 084406 Ebro.97 084335
		eP	NH	08 43 52	--	--			
		iP	ZH	08 43 52	--	--	Dil.		
309	3	iP	EH	16 58 14	--	--		6.316	Tl.05 165828 -- 6755 Mg.05 165838 493 6680 Stg.97 165843 Alm.22 165829
		iPP		17 00 22	--	--			
		eS		17 06 06	--	--			
		iP	NH	16 58 14	--	--			
		iPcP		16 59 10	--	--			
		iPP		17 00 22	--	--			
eS		17 06 06	--	--					
iP	ZH	16 58 14	--	--	Comp				
iPP		17 00 22	--	--					
eS		17 06 06	--	--					
310	4	eP	EH	13 52 05	--	--			Tl.20 135219 Mg.70 135228 Stg.97 135233 Ebro.99 135154
		eP	NH	13 52 05	--	--			
		iP	ZH	13 52 05	--	--	Dil.		

Núm. de orden	Día	Fase	Componente	Hora TMG	T seg.	Amplitud micrones	Dil. o comp.	$\Delta$ (Km.) (Grad.)	INFORMACIONES COMPLEMENTARIAS					
311	4	ePg iPn iSg iSn	EH	17 45 40	---	---	Comp.	67						
				17 45 43 <sup>4</sup>	---	---								
				17 45 47 <sup>8</sup>	---	---								
				17 45 54	---	---								
		iPg iSg eS <sup>*</sup> iSn	NH	17 45 40	---	---								
				17 45 47 <sup>8</sup>	---	---								
				17 45 49 <sup>7</sup>	---	---								
				17 45 54	---	---								
		iPg iPn iSg iSn	ZH	17 45 40	---	---								
				17 45 43 <sup>4</sup>	---	---								
				17 45 47 <sup>8</sup>	---	---								
				17 45 54	---	---								
312	4	ePKP <sub>1</sub> iPKP <sub>2</sub> ePP <sub>2</sub>	EH	18 30 52	---	---	Comp.	16.402	Tl.10 183055 224 15690 Eb.10 183053 212 15400 Mg.10 183057 239 17080 Stg.46 183054 Ali.85 183100					
				18 30 59	---	---								
				18 34 24	---	---								
		iPKP <sub>1</sub> iPKP <sub>2</sub> iPP <sub>2</sub>	NH	18 30 52	---	---								
				18 30 59	---	---								
				18 34 24	---	---								
		iPKP <sub>1</sub> iPKP <sub>2</sub> iPP <sub>2</sub>	ZH	18 30 52	---	---								
				18 30 59	---	---								
				18 34 24	---	---								
		313	4	eP  iP iP	EH NH ZH	23 44 49				---	---	Dil.		Tl.30 234441 Mg.05 234437 610 9025 Stg.97 234422 Eb.80 234458 633 9500
						23 44 49				---	---			
						23 44 49				1,1	0,5			
314	5	iP iP iP	EH NH ZH	05 41 56	---	---			Tl.80 054159 Ali.10 054157 Alm.22 054200 Stg.80 054203 Eb.85 054152 101 13635					
				05 41 56	---	---								
				05 41 56	---	---								
315	5	ePKP e	EH	17 37 01	---	---	Dil.		Tl.60 173705 Mg.35 173707 Ali.10 173703 Stg.85 173706 Alm.22 173704 Ebro.97 173657					
				17 38 15	---	---								
		ePKP i	NH	17 37 01	---	---								
				17 38 15	---	---								
		iPKP i	ZH	17 37 01	---	---								
				17 38 15	---	---								
316	5	ePKP ePKP iPKP	EH NH ZH	17 50 26	---	---	Comp.		Tl.97 175030 Mg.97 175034 Ali.60 175031 Stg.99 174926 Ebro.97 175029					
				17 50 26	---	---								
				17 50 26	---	---								
317	6	iPn eP <sup>*</sup> iPg iSn eS <sup>*</sup> iSg	EH	08 51 06	---	---		430						
				08 51 13	---	---								
				08 51 21	---	---								
				08 51 53	---	---								
				08 52 03	---	---								
				08 52 11	---	---								

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Núm. de orden	Día	Fase	Componente	Hora TMG	T seg.	Amplitud micrones	Dil. o comp.	Δ (Km.) (Grad.)	INFORMACIONES COMPLEMENTARIAS
317	6	iPn iP* iPg iSn iS* iSg	NH	08 51 06	---	---	Comp		Tl.30 085123 Ebro.27 085033 Ali.80 085101 52 480 Stgo.80 085206 Mg.48 085316
				08 51 13	---	---			
				08 51 21	---	---			
				08 51 53	---	---			
				08 52 03	---	---			
				08 52 11	---	---			
		ZH	iPn eP* iPg iSn iS* iSg		08 51 06	0,8	0,3		
					08 51 13	---	---		
					08 51 21	---	---		
					08 51 53	---	---		
					08 52 03	---	---		
					08 52 11	---	---		
318	7	eP eP iP	EH NH ZH	03 06 52	---	---	Comp.		Tl.30 030654 Ebro.95 030635 Stgo.97 030714
				03 06 52	---	---			
				03 06 52	---	---			
319	7	iPn iP* iPg eSn iPeP iPeS	EH	22 27 51	---	---	Comp	378	Tl.05 222828 72 Ebro.55 222809 60 560 Fabra.05 222814 59 473 Alm.05 222909 92 906 Stg.30 222823 66 622 Ali.55 222848 84 795 S.Fdo.55 222926 108 90
				22 27 56 <sup>5</sup>	---	---			
				22 28 06	---	---			
				22 28 33	---	---			
				22 35 30	---	---			
				22 39 01	---	---			
		NH	iPn iP* iPg eSn ePeP iPeS		22 27 51	---	---		
					22 27 56 <sup>5</sup>	---	---		
					22 28 06	---	---		
					22 28 33	---	---		
					22 35 30	---	---		
					22 39 01	---	---		
	ZH	iPn iP* iPg eSn iPeP iPeS		22 27 51	1,2	0,7			
				22 27 56 <sup>5</sup>	---	---			
				22 28 06	---	---			
				22 28 33	---	---			
				22 35 30	---	---			
				22 39 01	---	---			
320	8	ePn iSn iSg	EH	01 53 01	---	---		222	Ebro.97 015330
				01 53 27	---	---			
				01 53 32	---	---			
		NH	ePn iSn eSg		01 53 01	---	---		
					01 53 27	---	---		
					01 53 32	---	---		
		ZH	ePn eSn eSg		01 53 01	---	---		
					01 53 27	---	---		
					01 53 32	---	---		
321	8	ePn iSn iSg	EH	08 02 31	---	---		323	
				08 03 07	---	---			
				08 03 18	---	---			
		NH	ePn iSn iSg		08 02 31	---	---		
					08 03 07	---	---		
					08 03 18	---	---		

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Núm. de orden	Día	Fase	Compo- nente	Hora TMG	T seg.	Amplitud micrones	Dil. o comp.	Δ (Km.) (Grad.)	INFORMACIONES COMPLEMENTARIAS
321	8	ePn eSn eSg	ZH	08 02 31 08 03 07 08 03 18	— — —	— — —		323	Ebro.97 080303
322	8	ePg iSg iSn  ePg eSg  ePg eSg	EH   NH  ZH	09 21 33 09 21 48 09 21 50  09 21 33 09 21 48  09 21 33 09 21 48	— — —  — —  — —	— — —  — —  — —		128	Ebro.97 092238
323	8	eP iPP ePPP ePcP eS  iP iPP iPPP eS  iP iPP ePPP ePcP eS	EH     NH   ZH	11 40 48 11 41 45 11 41 49 11 43 51 11 45 45  11 40 48 11 41 45 11 41 49 11 45 45  11 40 48 11 41 45 11 41 49 11 43 51 11 45 45	— — — — —  — — — — —  — — — — —	— — — — —  — — — — —  — — — — —		3325	Tl.05 114111 317 3690 Mg.05 114137 338 3975 Eb.55 114103 304 3435 Stg.31 114042 68 3608 Ali.72 114125 Alm.80 114135 279
324	9	ePn iSn iSg  ePn iPg iSn iS* eSg  ePn iSn eSg	EH   NH  ZH	02 49 14 02 49 44 02 49 51  02 49 14 02 49 21 02 49 44 02 49 47 02 49 51  02 49 14 02 49 44 02 49 51	— — —  — — — — —  — — —	— — —  — — — — —  — — —		261	
325	9	ePKP  ePKP  iPKP	EH  NH  ZH	03 03 54  03 03 54  03 03 54	—  —  —	—  —  —			Tl.60 030358 Mg:60 030400 258 Alm:97 030403 Ali:60 030401 Ebro:96 030355 Stgo:85 030356
326	11	ePn iPg iSn eS* iSg	EH	07 49 31 07 49 43 07 50 12 07 50 195 07 50 27	— — — — —	— — — — —		373	

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326	11	ePn	NH	07 49 31	---	---	Dil.	373	Tl.77 075046 Ebro.77 074958
		iPg		07 49 43	---	---			
		iSn		07 50 12	---	---			
		iSg		07 50 27	---	---			
		iPn	ZH	07 49 31	---	---			
		eP*		07 49 36	---	---			
		iPg		07 49 43	---	---			
		iSn		07 50 12	---	---			
		iS*		07 50 19 <sup>5</sup>	---	---			
		iSg		07 50 27	---	---			
327	11	eP	EH	13 54 48	---	---	Dil.		Mg:85 135455 Tl:56 135445 Ebro:97 135449 Stgo:97 135508
		eP	NH	13 54 48	---	---			
		eP	ZH	13 54 48	---	---			
328	13	iP	EH	04 17 42	---	---	Dil.	2.157	Tl.05 041757226 2310 Mg:05 041802 230 2345 Alm:05 041745 216 219 Ali:30 041727 201 203 Stgo:30 041826 263 27
		iPP		04 18 00	---	---			
		iPPP		04 18 08	---	---			
		eS		04 21 16	---	---			
		iP	NH	04 17 42	---	---			
		iPP		04 18 00	---	---			
		iPPP		04 18 08	---	---			
		iS		04 21 16	---	---			
		iL	04 23 00	---	---				
		iP	ZH	04 17 42	1,4	1,3			
		iPP		04 18 00	---	---			
		ePPP		04 18 08	---	---			
iS	04 21 16	---		---					
iSS	04 21 42	---	---						
iL	04 23 00	---	---						
329	13	eP	EH	13 12 43	---	---	Dil.		Tl:60 131215
		eP	NH	13 1243	---	---			
		iP	ZH	13 12 43	---	---			
330	13	ePKP <sub>1</sub>	EH	14 53 31	---	---	Dil.	17447	Tl:10 145335 257 1755 Ebro: 10 145332 247 17315 Ali:85 145335 264 178 Stg:97 145347
		iPKP <sub>1</sub>		14 54 03	---	---			
		ePP <sub>2</sub>		14 57 43	---	---			
		ePKP <sub>1</sub>	NH	14 53 31	---	---			
		iPKP <sub>1</sub>		14 54 03	---	---			
		iPP <sub>2</sub>		14 57 43	---	---			
		iPKP <sub>1</sub>	ZH	14 53 31	---	---			
		iPKP <sub>1</sub>		14 54 03	---	---			
		iPP <sub>2</sub>		14 57 43	---	---			
331	13	iPg	EH	18 40 47	---	---	Dil.	128	
		iSg		18 41 02	---	---			
		iSn		18 41 04	---	---			
		iPg	NH	18 40 47	---	---			
		iSg		18 41 02	---	---			
iSn	18 41 04	---	---						

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Núm. de orden	Día	Fase	Componente	Hora TMG	T seg.	Amplitud micrones	Dil. o comp.	Δ (Km.) (Grad.)	INFORMACIONES COMPLEMENTARIAS
331	13	iPg iSg iSn	ZH	18 40 47 18 41 02 18 41 04	-- -- --	-- -- --	Dil.	128	
332	14	eP  eP  iP	EH  NH  ZH	09 44 36  09 44 36  09 44 36	--  --  --	--  --  --	   Comp		Tl:85 094412 Ebro:95 094401 Mg:85 094414
333	14	iPn iPg iSn iSg  iPn iPg iSn iSg  iPn iPg iSn iS*	EH     NH     ZH	21 13 27 21 13 323 21 13 55 21 14 005  21 13 27 21 13 323 21 13 55 21 14 005  21 13 27 21 13 323 21 13 55 21 13 57 21 14 005	-- -- -- --  -- -- -- --  -- -- -- -- --	-- -- -- --  -- -- -- --  -- -- -- -- --	          Dil.	239	Tl:01 211223 43 328 Ebro:27 211212 Ali:80 211231 34 296 Fabra:05 211236
334	15	iPn iPg iSn eSg  iPn ePg iSn iSg  iPn iPg iSn eSg	EH     NH     ZH	07 04 33 07 04 38 07 05 02 07 05 38  07 04 33 07 04 38 07 05 02 07 05 38  07 04 33 07 04 38 07 05 02 07 05 38	-- -- -- --  -- -- -- --  -- -- -- --	-- -- -- --  -- -- -- --  -- -- -- --	          Dil.	253	Ebro:27 070422 15 128 Tl:01 070433 30 256 Ali:80 070442 34 297 Mg:77 070523 36
335	16	eP  eP  iP	EH  NH  ZH	03 57 20  03 57 20  03 57 20	--  --  --	--  --  --	   Dil.		Mg:30 035755 210 2120 Tl:55 035743 Ali:47 035720
336	16	iP ePP   iP ePeP iPP	EH    NH  ZH	09 26 56 09 30 07   Registro interrumpido  09 26 56 09 27 02 09 30 07	-- --    -- -- -- --	-- --    -- -- -- --	      Dil.	9.174	Tl:05 092654 616 9245 Ebro:30 092710 625 930 Stgo:47 092632 Ali:30 092711 631 9500 Mg:05 092657 617 9180
337	16	eP   ip	EH   ZH	12 31 00   Registro interrumpido  12 31 00	--   --	--   --	   Dil.		Tl:45 123110 Ebro:96 123101 Mg:47 123114

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338	17	iP iPP iPPP iS	EH	14 11 20	---	---		2.124	Tl:05 141134 212 2165 Ali:05 141102 190 190 Mg:05 141140 220 2220 St:30 141210 254 2665 Eb:05 141048 167 1657 Fb:45 141034				
				14 11 37	---	---							
				14 11 46	---	---							
				14 14 51	---	---							
		eP iPP iPPP iS iPcP eL	NH	14 11 20	---	---							
				14 11 37	---	---							
				14 11 46	---	---							
				14 14 51	---	---							
				14 15 44	---	---							
		iP iPP iPPP iS iPcP iL	ZH	14 11 20	---	---				Dil.			
				14 11 37	---	---							
				14 11 46	---	---							
				14 14 51	---	---							
				14 15 44	---	---							
		339	17	eP	EH	17 47 34				---	---		
eP	NH			17 47 34	---	---							
iP	ZH			17 47 34	---	---	Dil.						
340	17	eP	EH	21 08 35	---	---			Mg:30 210824 576 8295 Ebro:97 210847				
		eP	NH	21 08 35	---	---							
		iP	ZH	21 08 35	---	---				Comp			
341	17	eP	EH	21 29 21	---	---			Mg:30 212911 569 8165 Eb:80 212933 592 8640 Stgo:55 212851				
		iP	NH	21 29 21	---	---							
		iP	ZH	21 29 21	---	---				Comp			
342	18	eP	EH	08 24 35	---	---			Tl:95 082449				
		eP	NH	08 24 35	---	---							
		iP	ZH	08 24 35	---	---				Dil.			
343	19	eP ePcP ePP	EH	01 47 05	---	---		6.870	Tl:05 014655 492 6780 Mg:05 014655-492 6710 Alm:05 014707 499 6815 Stgo:47 014637 Ali:30 014720 500 6820 Ebro:80 014719 516 712				
				01 47 46	---	---							
				01 49 23	---	---							
		ePP ePcP ePP	NH	01 47 05	---	---							
				01 47 46	---	---							
				01 49 23	---	---							
		iP ePcP ePP eS	ZH	01 47 05	---	---				Dil.			
				01 47 46	---	---							
				01 49 23	---	---							
		344	20	ePg	EH	17 14 59				---	---		128
				iSg		17 15 14				---	---		

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Núm. de orden	Día	Fase	Componente	Hora TMG	T seg.	Amplitud micrones	Dil. o comp.	$\Delta$ (Km.) (Grad.)	INFORMACIONES COMPLEMENTARIAS
344	20	ePg iSg iSn	NH	17 14 59	---	---	Dil.	128	
				17 15 14	---	---			
				17 15 16	---	---			
		iPg eSg iSn	ZH	17 14 59	---	---			
				17 15 14	---	---			
				17 15 16	---	---			
345	20	eP eP iP	EH NH ZH	19 01 24	---	---	Dil.		Tl:95 190100 Ebro:99 190127 Mg:98 200000 Stgo:97 190126
				19 01 24	---	---			
				19 01 24	---	---			
346	20	eP eP eP	EH NH ZH	20 54 42	---	---	Comp		
				20 54 42	---	---			
				20 54 42	---	---			
347	21	ePg iSg	EH	15 27 09	---	---	---	128	
				15 27 24	---	---			
		ePg iSg	NH	15 27 09	---	---			
				15 27 24	---	---			
		ePg iSg	ZH	15 27 09	---	---			
				15 27 24	---	---			
348	21	eP eP iP	EH NH ZH	15 42 13	---	---	Dil.		Tl:47 154218 Mg:47 154228 Ebro:99 154239
				15 42 13	---	---			
				15 42 13	---	---			
349	22	eP eP iP	EH NH ZH	12 04 51	---	---	Comp		Tl:47 120511 Ali:72 120528 Mg:47 120522 Stgo:97 120437
				12 04 51	---	---			
				12 04 51	---	---			
350	24	ePKP iPP	EH	20 28 38	---	---	Comp	13.900	Tl:60 202526 117 13980 Mg:60 202844 127 14220 Ali:74 202839 113 Stgo:99 202835 Fb:10 202833 109 13990 Ebro:99 202835 100 Alm:10 202842 122 1412
				20 30 31	---	---			
		ePKP iPP	NH	20 28 38	---	---			
				20 30 31	---	---			
		iPKP iPP	ZH	20 28 38	---	---			
				20 30 31	1,5	0,6			
351	26	eP ePP	EH	21 19 06	---	---	Comp	10.540	Tl:81 211855 10135 Mg:06 211846 214 9980 Ebro:81 211909 250 1121
				21 22 57	---	---			
		iP iPP	NH	21 19 06	---	---			
				21 22 57	---	---			
		iP iPP	ZH	21 19 06	---	---			
				21 22 57	---	---			

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352	27	ePKP	EH	09 21 34	--	--			Tl:35 092135 280 Mg:85 092137 Stgo:99 092129 Ebro:96 092153
		iPKP	NH	09 21 34	--	--			
		iPKP	ZH	09 21 34	--	--			
353	28	ePg	EH	11 31 23	--	--		67	
		iSg		11 31 31	--	--			
		iS*		11 31 33	--	--			
		iSn		11 31 37	--	--			
		iPg	NH	11 31 23	--	--			
		iSg		11 31 31	--	--			
		iSn		11 31 37	--	--			
		ePg	ZH	11 31 23	--	--	--		
		iSg		11 31 31	--	--			
		eSn		11 31 37	--	--			
354	29	eP	EH	06 57 29	--	--			Tl:81 065812 Ali:60 065738 Stgo:97 065803 Mg:85 065735
		eP	NH	06 57 29	--	--			
		iP	ZH	06 57 29	--	--	Dil.		
355	29	eP	EH	20 36 49	--	--			Tl:95 203708
		eP	NH	20 36 49	--	--			
		iP	ZH	20 36 49	--	--	Dil.		
356	30	eP	EH	15 23 25	--	--			
		eP	NH	15 23 25	--	--			
		iP	ZH	15 23 25	--	--	Dil.		

E. Maza

Logroño 24 de Octubre de 1.97



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