1958, 59, 60

International Seismological Centre

AÑO GEOFISICO INTERNACIONAL

OBSERVATORIO ASTRONOMICO DE LA UNIVERSIDAD NACIONAL

LA PLATA - REPUBLICA ARGENTINA

Delegado Interventor: Dr. Reynaldo P. Cesco

B O L E T I N S I S M O L O G I C O

Enero 1958

SANTIAGO DEL ESTERO

ESTACION SISMOLOGICA " TALA POZO

$\varphi = -27° 49'3$ $\lambda = -64° 14'7$

Instrumentos: E y N Sprengnether y Wiechert Z 80 Kg

Constantes

E	$l_r = 23.7$	$A = 100$	$\mu = 0$	$T_s = 14^s5$	$T_g = 14^s5$	$k = 148$
N	$l_r = 25.9$	$A = 100$	$\mu = 0$	$T_s = 14^s7$	$T_g = 14^s7$	$k = 92$
Z	$\varepsilon = 5.8:1$		$T_o = 4^s9$	$V = 48$		$r = 0.02$

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
1	2	E		22 51 55	5			
				55 50	4			
				56 55	3			
			L	57 50	4	3		
			M	23 00 52	12	4		
			F	30				
				22 52 00	8			
				55 50	4			
			L	58 35	20	5		
			M	23 00 50	12	5		
			F	24				
2	11	E		16 01 35	2		280	En Z indicios de M con $T=2^s$ y $A=8\mu$
			S	02 05	4			
			M	02 29	3	4		
			F	05				
		N	P?	16 01 25	4			
			S	02 05	3			
			M	02 51	10	3		
			F	05				
3	15	Z	P	19 17 35	2	4	1.500	USCGS: 16°5S 71°5W
				18 10	3	7		H: 19h 14m 29s
			S	20 05	2	8		h~100
			L	21 20	1	10		Horas aproximadas
			Luego registro confuso					E yN sin registro

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N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
4	17	N	P	05 23 55			270	USCGS: Tucumán(Arg)
			S	24 25				H: 05h 23m 08s
			F	32				T y A Ilegibles
		Z	iP	05 23 53	1			E sin registro
			iS	24 23	1			h~150 km
			M	24 34	1	34		Compresión
			F	29				
5	17	N	S?	07 41 30	8		11.400	USCGS 52°N139°5 E
			SSS?	51 20	7			H: 07h 15m 38s
			L	08 02 10	39	12		E sin registro
			M	05 49	20	6		
			F	48				
6	18	E	P	15 23 00	8		4.500	USCGS 29°S 13°W
			PP	24 30	8			H: 15h 14m 26s
			S	29 20	7			
			SSS	32 50	8			
			L	35 35	32	10		
			M	39 53	16	10		
			M	49 10	15	8		
			F	16 44				
		N	PP	15 24 35	19			
			PPP?	25 25	4			
			S	29 25	6			
			SSS	32 40	16			
			ScS?	33 20	10			
			L	35 35	32	13		
			M	39 32	16	8		
			M	46 54	14	7		
			F	16 44				
7	19	E	iP	14 13 53	3	i+3	3.700	USCGS:1°5 S 79°5 W
			S	19 05				H: 14h 07m 23s
			Luego ilegible					h~60 km
		N	iP	14 13 53	3	i=-9;43		
			PP	15 00	5	12		
			iS?	19 29	11	i=+68;143		
			Luego ilegible; M : T~11s y A~185μ					
		Z	iP	14 13 53	2	14		
			S	19 05	2	2		
			SS	20 50	4	4		
			L	23 55	24	196		
			M	46 06	18	109		F superpuesto al sig.
8	19	Z	iP	14 49 58	1y5	i=-2;11	3.700	USCGS 1°5 N 79° W
			S?	55 30	2	2		H: 14h 43m 24s
			SSS	57 50	8	14		h~60 km
			L	15 02 10	26	179		En E y N totalmente
			M	06 03	20	330		superpuesto al ante-
			F	16 31				rior.

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N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
9	20	E	iP	02 21 40	4			USCGS 30°5 S 71°5 W
			F	04 05				H: 02h 19m 53s
		N	iP	02 21 40	4			
			Luego ilegible M con T= 4s y A= 90 μ					F aprox. 03h 45m
		Z	iP		4			Sin registro de tiempo
			S		2			Compresión
			L		2	46		
			M		1	232		
10	20	E	iP	09 57 33	4		800	USCGS 30°5S 71°5W
			Luego ilegible;M con T= 4syA ~30μ					H: 09h 55m 44s
		N	iP	09 57 33	4			Tracción
			Luego ilegible;M con T= 4syA ~25μ					
		Z	P		2			Sin registro de tiempo
			S		2			
			L		4	34		
			M		3	211		
11	21	E	iP	08 08 28	3		700	USCGS 29° S 73° W
			Luego ilegible					H: 08h 06m 56s
		N	iP	08 08 30	4			Tracción
			iS	09 38	7			
			M	10 38	5	50		
			F	33				
		Z	iP	08 08 28	2			
			iPPP	08 53	1			
			iS	09 37	1			
			M	11 20	2	30		
			F	15				
12	25	N	P	21 38 30	8		500	E y Z nada
			S	39 20	6			
			L	39 40	4	3		
			M	40 40	4	14		
			F	45				
13	30	N		06 35 50	8			USCGS 7°5 S 155°5E
			SKS	39 50	9			H: 06h 13m 24s
				54 05	11			E y Z nada
			L	07 16 50	20	3		
			M	23 49	20	5		
			F	08 21				
14	30	E	?	21 44 55	8			
			P?	45 20	4			
			L	46 00	10	2		
			M	46 02	5	4		
			F	52				
		N	P?	21 45 20	4			
			L	45 40	4	3		
			M	45 58	4	10		
			F	52				
		Z	P?	21 45 20	1			
			L	45 40	2	2		
			M	46 02	2	10		
			F	48				

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SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Enero 1958

Componente E - W

Hora	0^h			6^h			12^h			18^h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	1	0.7	4.3	1	1.2	4.2	1	1.0	4.6	1	1.2	4.2
2	2	0.7	4.2	1	0.8	4.2	1	0.7	4.2	2	0.7	4.2
3	...			...			...			...		
4	2	0.7	4.3	...			...			2	0.7	4.8
5	2	0.7	4.2	2	0.7	4.6	2	0.7	4.8	2	0.7	4.3
6	2	0.6	5.4	2	0.7	4.7	...			2	0.6	4.9
7	...			2	0.7	5.5	2	0.5	4.5	2	0.9	3.8
8	...			2	0.9	4.2	2	1.1	3.8	2	0.9	4.1
9	...			2	0.8	4.3	...			2	0.9	4.0
10	...			2	0.8	4.0	2	0.7	3.7	2	0.8	4.4
11	2	0.5	4.4	2	0.8	4.2	2	0.7	4.2	2	0.7	4.1
12	...			...			2	0.7	4.4	...		
13	...			...			...			...		
14	2	0.7	4.3	...			...			2	0.7	4.2
15	...			2	0.7	4.2	2	0.7	4.2	...		
16	...			...			...			...		
17	...			...			2	1.3	4.2	...		
18	2	1.3	4.2	...			...			2	1.2	4.6
19	2	1.5	4.2	2	1.3	4.3	1	1.5	4.2	...		
20	2	1.6	4.2	2	1.6	4.3	2	1.9	4.3	2	1.9	4.2
21	2	0.8	4.2	2	1.6	4.2	...			2	1.1	4.2
22	2	1.3	9.2	2	0.8	4.3	...			2	1.1	8.2
23	2	1.1	8.8	2	1.3	8.0	2	1.2	8.0	2	1.1	7.8
24	...			2	1.1	7.9	2	0.8	7.7	...		
25	...			...			...			...		
26	...			...			...			...		
27	2	1.2	4.6	...			...			2	1.3	4.2
28	...			2	1.5	4.4	2	0.7	4.2	2	1.1	4.4
29	...			...			...			...		
30	2	0.7	7.2	...			...			2	0.7	6.0
31	2	0.9	6.0	2	0.7	5.8	2	0.5	6.4	2	0.9	5.3

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Enero 1958

Componente N-S

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	1	1.2	4.1	1	1.4	4.3	1	1.4	4.1	1	1.4	4.1
2	2	0.9	4.0	1	1.2	4.2	1	1.3	3.8	2	1.3	3.8
3	2	1.2	4.2	2	1.2	4.1	2	0.9	4.1	2	0.9	4.0
4	2	1.2	4.2	2	1.2	4.0	2	1.2	4.3	2	1.1	4.7
5	2	1.2	4.2	2	1.1	4.9	2	1.2	4.2	2	1.2	4.2
6	2	1.1	4.6	2	1.2	4.2	...			...		
7	...			2	1.2	5.4	...			2	1.3	3.8
8	2	1.4	4.0	...			2	1.3	3.8	2	1.6	3.7
9	...			2	1.2	4.2	2	1.3	3.8	2	1.2	4.1
10	...			2	1.2	4.1	2	1.2	4.1	2	1.2	4.3
11	2	1.1	4.6	...			2	0.9	4.1	2	1.2	4.3
12	...			...			...			...		
13	...			...			...			...		
14	2	1.2	4.2	...			...			2	1.1	3.8
15	...			...			2	1.2	4.2	...		
16	2	2.1	4.0	...			...			2	2.4	4.1
17	2	2.1	4.2	2	2.1	4.2	2	2.1	4.2	2	3.1	4.3
18	2	1.7	4.3	2	1.7	4.2	2	2.1	4.2	2	1.4	4.2
19	1	2.1	4.2	2	2.4	4.2	2	2.4	4.2	...		
20	1	2.6	4.2	2	2.4	4.3	2	2.4	4.2	1	2.6	4.2
21	2	1.7	4.2	1	2.9	4.2	1	2.4	4.3	2	1.7	4.2
22	2	1.2	4.2	2	1.2	4.2	...			2	1.2	4.2
23	2	0.9	4.6	...			2	1.2	4.2	2	0.9	4.1
24	2	1.3	7.2	2	099	4.2	2	1.1	4.6	2	1.6	7.7
25	2	1.1	6.4	2	1.2	6.2	2	1.2	6.0	2	1.1	6.5
26	2	2.1	4.2	...			2	1.2	4.1	...		
27	...			...			...			...		
28	...			...			...			2	1.7	4.3
29	2	1.3	6.5	2	1.2	5.8	2	1.2	5.8	2	1.5	6.0
30	2	1.0	6.1	2	1.1	6.8	...			2	1.0	5.9
31	2	1.4	5.5	2	1.1	4.8	2	1.1	5.0	2	1.3	5.0

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LA PLATA - REPUBLICA ARGENTINA

Delegado Interventor: Dr. Reynaldo P. Cesco

B O L E T I N S I S M O L O G I C O

Febrero 1958

ESTACION SISMOLOGICA:"TALA POZO"

SANTIAGO DEL ESTERO

$\varphi = -27° 49'.3$ $\lambda = -64° 14'.7$

Instrumentos: E y N Sprengnether y Wiechert Z 80 Kg

Constantes

E	$l_r = 23.7$	$A = 100$	$\mu = 0$	$T_s = 14^s5$	$T_g = 14^s5$	$k = 148$
N	$l_r = 25.9$	$A = 100$	$\mu = 0$	$T_s = 14^s7$	$T_g = 14^s7$	$k = 92$
Z	$\varepsilon = 5.8:1$		$T_0 = 4^s9$	$V = 48$		$r = 0.02$

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
15	1	E	iP	16 16 47	8	i=+4;7	3.650	USCGS:2°N 79°W
			iS	22 02	7	i=+31?		H: 16h 10m 15s
				Luego ilegible;M con T~12s y A~258				
			F	Superpuesto al siguiente				
		N	iP	16 16 47	9	i=-9;13		
			S	22 05	4	60		
				Luego ilegible;M con T~15s y A~137				
			F	Superpuesto al siguiente				
		Z	iP	16 16 47	1	i=+2;10		
			S?	22 10	2	2		
			L	27 10	4	~2		
			M	32 49	16	100		
			F					
16	1	E	P	18 09 14	5	1	3.650	USCGS:2°N 79°W
			S	14 25	4	13		H: 18h 02m 39s
			F	19 58				
		N	P	18 09 14	5	2		
			S	14 25	12	8		
			SSS?	17 10	4	5		
			L	19 50	28	41		
			F	19 58				
		Z	P	18 09 14	1	2		
			S?	14 00	4	~2		
			M	24 00	5	~2		
			F	51				

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N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
17	1	E	P	20 52 25	4	3	3.650	USCGS: 1°5N 79°W
			iS	57 36	8	i=+5;8		H: 20h 45m 45s
			PcS?	58 25	16	6		
			SSS	21 00 25	14	11		
			L	01 35	16	12		
			M	06 34	18	36		
			F	23 18				
		N	P	20 52 25	5	6		
			S	57 35	7	4		
			SSS	21 00 20	6	4		
			L_R	02 25	10	3		
			M	05 29	24	53		
			F	23 06				
18	3	E	L	09 09 55	36	4		USCGS: 21°S 174°W
			M	20 31	18	2		H: 08h 25m 19s
			F	37				
		N	L	09 09 55	40	8		
			M	20 38	16	2		
			F	37				
19	3	E		16 17 35	22	2		
			L_Q	3 40	25y48	3y22		N: Indicios irregulares
			L_R	3 00	58	51		
			M	3 41	40	41		
			M	17 02 21	36	24		
			F	18 54				
20	5	E	L	03 01 55	26	3		N: Indicios irregulares
			M	04 00	8	1		
			F	22				
21	5	E	Pg	16 16 15	4			Z: Ilegible
			F	18				
		N	Pg	16 16 15	4			
			F	17				
22	5	E	L	20 34 25	22	2		N: Nada
			M	35 10	16	2		
			F	53				
23	5	E	L	20 59 00	[illegible]	2		
			M	59 58	[illegible]	2		
			F	15				
		N	L	20 59 00	24	[illegible]		
			M	59 37	16	[illegible]		
			F	21 14				
24	8	E	iPgg	06 53 22	4		500	Movimiento hacia el oeste
			Sgg	54 00	4			
			M	54 39	6	6		
			F	58				
		N	Pgg	06 53 20	4			
			iSgg	54 02	4			
			M	54 19	6	10		
			F	07 00				

Febrero de 1958 (3)

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
24	8	Z	Pg	06 53 21	1			
Cont.			Sg	54 00	2			
			M	54 28	1	2		
			F	56				
25	11	E	L	14 01 50	28	6		En N y Z nada.
			M	10 27	31	9		
			F En el cambio de bandas					
26	19	E	PcS	01 34 05	16			USCGS: 37°5S 111°W
				36 50	12			H: 01h 20m 20s
			L	39 50	20	4		
			M	40 35	25	9		
			F Ilegible					
		N	PcS	01 34 05	8			
				36 40	8			
			L	40 05	20	4		
			M	41 49	8	4		
			F Ilegible					
27	22	E	SSS?	11 33 50	6	~1		USCGS: 50°5N 175°W
				44 20	24	7		H: 10h 50m 23s
			L	50 25	8	1		
			M	56 39	17	4		
			F	13 07				
		N		11 43 30	30	8		
			L	51 35	24	5		
			M	56 03	18	4		
			F	13 01				
28	23	E	iP	08 15 59			250	USCGS: 27°5S 63°W
			Luego ilegible					H:08h 14m 48s
		N	iP	08 15 59				h= 600
			Luego ilegible					NE de Santiago del
		Z	iP	08 15 59	1	i=-297;368		Estero.
			iS	16 52	3	i=+36;96		φ = 26°8S λ = 62°0
			M	17 44	2	26		h = 500 km
			F Ilegible					

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SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Febrero 1958

Componente E-W

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	2	1.2	5.5	2	1.0	5.3	2	1.0	6.0	...		
2	2	0.9	4.7	...			...			2	1.2	4.6
3	1	0.8	4.2	2	0.8	4.2	3	0.7	4.7	2	0.9	4.2
4	...			2	1.2	4.3	2	1.1	4.6	2	0.9	4.6
5	...			2	0.7	5.2	2	0.6	4.8	1	0.9	5.2
6	...			...			...			2	0.5	6.0
7	...			2	0.8	6.6	2	1.0	6.6	2	1.0	8.2
8	2	1.2	5.3	...			2	1.0	6.1	2	1.3	5.2
9	2	1.0	5.4	2	1.7	4.6	2	1.6	4.3	2	1.2	4.9
10	2	1.2	5.2	2	1.2	4.7	2	1.2	4.3	2	1.2	4.4
11	...			2	1.2	5.2	2	1.5	4.7	...		
12	...			2	0.9	6.0	2	1.2	4.2	...		
13	...			2	0.8	4.2	2	0.9	4.0	...		
14	...			...			...			...		
15	...			...			...			...		
16	...			...			...			...		
17	2	1.2	4.2	...			2	0.8	4.1	2	1.2	4.2
18	2	1.1	4.2	2	1.2	4.2	2	1.2	4.2	2	1.2	4.0
19	...			2	1.6	4.2	2	1.1	4.2	2	2.0	4.2
20	...			...			2	1.2	4.0	2	1.2	4.2
21	1	1.2	4.2	2	1.5	4.2	2	0.9	4.2	2	1.2	4.4
22	2	1.2	4.2	2	1.8	4.2	...			2	1.6	4.2
23	...			2	1.2	4.1	2	0.9	4.2	...		
24	...			...			...			...		
25	2	1.6	4.2	...			2	1.2	4.2	2	1.2	4.3
26	2	2.2	4.4	3	2.7	4.2	2	1.5	4.6	3	2.1	4.6
27	...			3	1.9	4.7	...			...		
28	...			...			...			...		

International Seismological Centre

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Febrero 1958

Componente N-S

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	2	1.3	5.0	2	1.1	4.8	2	1.2	4.1	...		
2	2	1.2	4.3	...			...			...		
3	...			2	1.2	4.1	2	1.4	4.2	2	1.2	4.3
4	...			2	1.4	4.3	2	1.2	4.2	2	1.2	4.3
5	...			...			...			1	1.1	4.9
6	...			2	1.1	4.6	2	1.1	4.6	2	1.2	4.2
7	...			2	1.1	4.6	2	1.2	5.5	2	1.3	7.0
8	2	1.5	4.7	...			2	1.3	7.6	2	1.5	4.8
9	2	1.9	4.0	2	1.9	4.4	2	2.4	4.2	2	2.1	4.2
10	2	2.1	4.3	2	1.7	4.1	...			...		
11	...			2	2.0	4.9	...			...		
12	...			2	1.4	4.3	2	1.2	4.0	...		
13	...			2	1.4	4.2	...			...		
14	...			...			...			...		
15	...			...			...			...		
16	...			...			...			...		
17	2	2.1	4.2	...			2	1.2	4.0	2	2.1	4.2
18	2	2.4	4.2	2	2.4	4.3	2	1.4	4.1	2	2.4	4.2
19	...			2	2.4	4.2	2	1.7	4.0	2	2.4	4.1
20	1	1.7	4.2	2	1.7	4.2	2	1.9	4.1	2	2.1	4.2
21	...			2	1.9	4.4	...			...		
22	...			...			...			...		
23	2	2.1	4.2	...			2	2.1	4.2	1	2.1	4.2
24	...			2	1.9	4.2	2	1.9	4.2	...		
25	1	2.1	4.2	...			2	1.4	4.1	2	1.2	4.2
26	1	2.6	5.0	2	3.6	4.3	2	2.6	4.3	2	3.1	4.6
27	...			2	2.9	4.3	...			...		
28	...			...			...			...		

AÑO GEOFISICO INTERNACIONAL
OBSERVATORIO ASTRONOMICO DE LA UNIVERSIDAD NACIONAL
LA PLATA - REPUBLICA ARGENTINA

International Seismological Centre

Delegado Interventor: Dr. Reynaldo P. Cesco

B O L E T I N S I S M O L O G I C O

Marzo 1958

SANTIAGO DEL ESTERO
ESTACION SISMOLOGICA " TALA POZO "

$\varphi = -27° 49'3 \quad \lambda = -64° 14'7$

Instrumentos: E y N Sprengnether y Wiechert Z 80 Kg

Constantes

E	$l_r = 23.7$	A=100	$\mu = 0$	$T_s = 14^s5$	$T_g = 14^s5$	k= 148
N	$l_r = 25.9$	A=100	$\mu = 0$	$T_s = 14^s7$	$T_g = 14^s7$	k= 92
Z	$\varepsilon = 5.8:1$		$T_0 = 4^s9$	V=48		r= 0.02

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
29	1	E	L	13 11 20	28	2		
			M	13 08	21	4		
			F	38				
		N	L	13 10 55	26	3		
			M	13 34	24	4		
			F	40				
30	8	E	iP		5			USCGS: 33°5 S 70° W
			iS		4			H: 20h 10m 23s
			M		3	44		h = 100 km
								Compresión.
		N	iP		5			Sin inscripción horaria
			iS		4			
			L		4	7		
			M		4	57		
		Z	i		1			
					1			
			S		2			
			i		2			
			M		1	30		
			i		2			
31	11	N	P'	00 45 40	7	1	18.500	USCGS: 25°5N 125°E
				46 40	10	2		H: 00H 25m 56s
				47 25	12	3		h: 60 km
			PKS	48 20	8	3		
			SKS?	52 20	16	5		
			PPP	54 20	16	5y7		
				55 50	12	6		
			SKKS (1)	58 40	14	12		(1): Δ > 180°
			PPS	01 04 50	22	18		

Continua en la pagina siguienta

Marzo de 1958.-

International Seismological Centre

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
31	11	N	SS	01 10 40	20	13		
Cont.			PPS	12 10	20	28y37		
			SSS	16 40	20	24		
			L	27 00	45	62		
			L_R	44 40	44	75		
			M	02 03 59	20	23		
			M	12 33	20	23		
			F	03 16				
32	15	E	iP	16 00 58	4	i=-3;4		N Nada
			iS	01 43	4	i=+4;9		
			M	02 47	10	7		
			F	17				
		Z	P	16 01 05	1	2		
			S	01 40	2	4		
			F	05				
33	19	N	P?	04 26 55	8		2.400 ?	E nada
			S?	30 55	17			
			L	32 55	15	1		
			M	34 47	16	2		
			F	05 01				
34	20	E	SKKS	02 05 30	8	1	13.500	USCGS: 51° N 173°W
			PS	09 10	16	1		H: 01h 38m 04s
			SS	15 40	14	1		N Nada
			L?	30 10	34	4		
			L_R	37 00	23	3		
			M	40 53	20	4		
			F	04 09				
35	25	N	L	19 10 55	22	2		USCGS: 18°N 64°5W
			M	12 45	16	2		H: 18h 42m 27s
			F	18				E Nada
36	25	E	P	21 37 00	6		400	
			S	37 40	4			
			L	38 00				
			M					Periodos y amplitudes ilegibles
			F	48				
		E	P	21 37 00	5			
			S	37 40	5			
			L	38 00	4	6		
			M	38 41	4	20		
			F	50				
		Z	P?	21 36 55	1			
			S	38 00	4			
			L	38 20	3	7		
			M	38 54	2	13		
			F	42				
37	31	E	iP	19 51 35	2	i=+2;5	330	USCGS: Prov. de Catamarca (Argentina)
			Luego Ilegible					H: 19h 50m 37s
			F	20 11				
		N	iP	19 51 35	2	i=-4;9		
			iS	52 11	?	?		
			Luego ilegible					
			F	20 13				
		Z	iP	19 51 35	1	i=+14;20		
			iS	52 14	1	i=-71;61		
			M	52 22	2	84		
			F	20 02				

Prof. Ing. S. Gershanik
Jefe del Departamento
de Geofísica

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Marzo 1958

Componente E-W

Hora	0^h			6^h			12^h			18^h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	...			...			2	0.9	4.2	3	1.1	4.6
2	2	0.8	4.1	...			2	1.2	4.8	2	1.3	4.2
3	...			2	1.5	4.2	...			...		
4	...			...			2	0.7	4.2	...		
5	...			2	1.0	6.5	2	0.5	6.5	2	0.5	5.8
6	...			2	1.0	6.7	2	0.5	6.7	2	0.7	6.6
7	...			2	0.6	4.8	2	1.0	4.6	2	1.1	4.2
8	2	1.2	4.9	...			...			...		
9	...			...			...			2	1.2	6.0
10	...			2	0.7	6.4	2	0.9	6.2	2	0.9	5.3
11	...			...			...			1	1.3	4.2
12	2	0.9	4.2	2	1.5	4.3	2	1.8	4.2	2	0.9	4.2
13	...			...			2	0.7	4.3	2	1.2	4.3
14	2	0.5	6.1	2	1.1	4.4	2	0.7	4.4	...		
15	...			2	0.5	6.0	...			2	0.9	5.5
16	2	0.7	5.3	...			...			...		
17	...			2	0.9	4.7	2	1.1	4.4	...		
18	...			...			...			...		
19	...			...			...			...		
20	...			...			...			...		
21	...			...			...			...		
22	...			...			...			...		
23	...			...			...			2	1.0	4.2
24	2	1.0	4.6	2	1.0	4.2	...			2	0.9	4.6
25	...			...			...			2	0.9	4.8
26	2	0.7	4.8	2	0.9	4.9	2	1.0	5.8	2	0.8	4.4
27	...			...			...			2	0.8	5.3
28	2	0.9	5.4	2	0.7	5.9	2	0.9	4.5	...		
29	...			2	1.1	5.2	2	1.2	5.8	2	1.2	5.4
30	1	1.4	4.6	...			2	1.8	4.2	2	1.7	4.5
31	...			2	1.9	4.7	2	1.7	4.9	2	1.7	4.9

International Seismological Centre

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Marzo 1958

Componente N-S

Hora	0^h			6^h			12^h			18^h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	...			...			2	1.4	4.2	2	1.4	4.1
2	1	1.2	4.2	...			2	2.2	4.6	...		
3	...			2	1.9	4.2	...			...		
4	...			...			...			2	1.2	4.1
5	...			2	1.2	4.3	2	0.7	4.2	1	0.9	4.7
6	...			2	0.9	4.7	2	0.9	4.8	2	0.9	4.2
7	...			...			2	1.7	4.2	2	1.3	3.8
8	2	1.5	4.6	...			...			...		
9	...			...			...			2	1.2	6.0
10	2	1.2	4.2	2	1.3	4.8	2	1.1	4.9	2	1.1	4.6
11	...			2	1.7	4.2	...			...		
12	...			...			...			...		
13	...			...			...			...		
14	...			...			...			...		
15	...			...			...			...		
16	...			...			...			...		
17	...			...			...			...		
18	...			...			...			...		
19	...			...			...			...		
20	...			...			...			...		
21	...			...			...			...		
22	...			...			...			...		
23	...			...			...			2	1.3	4.4
24	2	1.1	4.4	2	1.6	4.6	...			2	1.4	4.0
25	...			2	1.1	4.2	2	1.4	4.9	2	1.3	4.8
26	2	1.1	4.6	2	1.2	5.8	2	1.4	4.3	2	1.3	4.8
27	...			2	1.6	4.2	2	1.0	4.8	2	1.4	5.4
28	2	1.9	4.2	2	1.7	5.3	2	1.7	4.2	...		
29	...			2	1.5	4.6	...			...		
30	...			...			...			...		
31	...			...			...			2	1.4	4.3

International Seismological Centre From the ISC collection scanned by SISMOS

Apl - June

844

AÑO GEOFISICO INTERNACIONAL

OBSERVATORIO ASTRONOMICO DE LA UNIVERSIDAD NACIONAL

LA PLATA - REPUBLICA ARGENTINA

Delegado Interventor: Dr. Reynaldo P. Cesco

B O L E T I N S I S M O L O G I C O

Abril 1958

SANTIAGO DEL ESTERO

Copied Oct 11

ESTACION SISMOLOGICA " TALA POZO"

$\varphi = -27° 49'3$ $\lambda = -64° 14'7$

Instrumentos: E y N Sprengnether y Wiechert Z 80 Kg

Constantes

E	L_r= 23.7	A = 100	= 0	T_s = 14s5	T_g= 14^s5	k = 148
N	l_r= 25.9	A = 100	= 0	T_s = 14s7	T_g= 14^s7	k = 92
Z	ε = 5.8:1	T_o= 4^s9		V= 48		r= 0.02

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
38	3	N	S	08 37 30	8		3.700	USCGS 1°5N 79°W
			L	45 25	16	4		H: 08h 25m 43s
			M	46 30	4	4		
			F	09 13				
39	9	N	P	19 46 00	8		640	Comp.EW ilegible
			Luego ilegible					
		Z	Pg	19 45 55	1			
			iSg?	47 11	2	i=-4		
			M	47 31	1	32		
			F	54				
40	10	E	iP	13 20 07	4	i=-7	550	USCGS: 24°S 69°W
			S	21 00	4			H: 13h 18m 47s
			Luego ilegible					h 150 km
			F	42				Comp.NS sin registro
		Z	iP	13 20 06	1	i=-2		
			iS	21 11	2	i=-4		
			M	22 06	1			
			F	30				
41	14	E	iP	2 39 01	4y14	i=+4;5	3.400?	USCGS: 1°N 79°5W
			S?	44 00	14	5		H: 21h 32m 28s
			Luego ilegible					
			Superpuesto al siguiente					
		N	iP	21 39 01	4y14	i=-6;12		
			PP	40 00	16	9		
			S?	44 00	14	7		
				45 10	19	72		
			L	50 20	32	74		
			M	54 40	13	151		
			F Superpuesto al siguiente					

International Seismological Centre From the ISC collection scanned by SISMOS

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
41 Cont.	14	Z	P	21 39 00	1	2		
			S	44 25	3	2		
				45 55	8	5		
			L	51 05	23	46		
				53 50	19	62		
			M	54 37	17	118		
			M	57 38	12	35		
			F	22 49				
42	15	E	iP	01 37 16	6	i=+3;3	3.700	USCGS: 1°N 79°5W
				40 30	12	2		H: 01h 30m 43s
			S	42 55	12	7		
			SS	43 40	12	7		
			L	47 20	16	8		
			M	52 25	23	37		
			F	Superpuesto al siguiente				
		N	iP	01 37 16	6y4	i=-3;5		
			PP	38 35	10	3		
			iS	42 37	8	i=+5;7		
				43 20	23	22		
				45 10	12	6		
			L	48 35	48	36		
			L_R	50 40	18	16		
			M	52 28	16	60		
			F	Superpuesto al siguiente				
43	15	E	iP	04 00 17	5	i=+3;3	4.500	USCGS: 9°N 84°W
			PP	01 50	4	4		H: 03h 52m 39s
			iS	06 22	14	i=-10;12		
			L	14 10	44	40		
			M	18 45	18	17		
			F	05 34				
		N	iP	04 00 17	5	i=-5;5		
			PP	02 00	4	18		
			iS	06 22	9y19	i=-6;33		
				07 10	14	8		
			L	14 10	10	8		
				16 30	9	4		
			M	17 53	22	31		
			F	05 20				
		Z	P	04 00 20	2	2		
			PP	01 50	4	3		
			L	16 25	6	5		
			F	29				
44	19	E		00 49 25	4			
			L	50 10	4	3		
			M	50 34	4	6		
			F	55				
		N		00 49 25	4			
			L	50 10	3	4		
			M	50 25	6	5		
			F	56				
45	19	E	L	01 05 10	10	1		
			M	06 04	7	7		
			F	21				
		N	L	01 05 25	7	1		
			M	06 08	5	8		
			F	17				

International Seismological Centre From the ISC collection scanned by SISMOS

Abril de 1958

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
46	27	E	iP	18 39 33	4	i=+1	450	USCGS: 23°S 66°W
			S	40 20	5			H: 18h 38m 10s
			M	41 06	7	10		h ~ 200 km
			F	58				
		N	P	18 39 33	4	i=-2		
			S	40 20	5			
			M	41 28	5	21		
			F	57				
		Z	P	18 39 30	1			
			S	40 30	2			
			F	46				
47	28	Z	PP	11 53 00	3	2	2.400	USCGS: 11°S 74°W
			S	56 30	4	4		H: 11h 47m 40s
			L	59 05	5	2		
			M	12 00 50	5	7		No funcionó el dispositivo de marcación horaria.
			F	40				
48	30	E	PP?	19 29 25	4	2	800	USCGS 21°S 67°5W
				29 55	7	2		H: 19h 27m 32s
			L	30 35	4	2		h ~ 150 km
			M	32 17	12	11		
			F	20 04				
		N	P	19 29 20	5	3		
				29 55	6	4		
			L	30 35	8	4		
			M	32 18	9	10		
			F	20 00				

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SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Abril 1958

Componente E-W

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	...			...			...			...		
2	...			...			...			2	1.2	6.6
3	...			...			...			2	1.2	6.6
4	...			2	2.3	2.4	2	1.2	7.8	2	1.0	7.8
5	...			2	1.0	7.8	2	1.0	6.6	2	0.7	7.2
6	...			...			...			2	0.7	6.6
7	...			2	0.7	5.4	2	0.7	6.6	...		
8	...			...			...			2	0.9	4.8
9	2	1.4	4.2	...			...			2	0.7	4.8
10	...			...			2	0.8	5.4	2	0.9	7.8
11	...			2	0.9	7.8	2	1.0	7.8	...		
12	2	2.0	4.2	...			3	2.0	4.2	2	1.9	4.2
13	2	1.5	4.2	...			...			2	2.0	4.2
14	...			2	1.2	4.2	2	1.0	4.8	2	1.0	5.4
15	2	0.6	4.8	2	1.0	5.4	2	1.0	4.8	2	0.7	5.4
16	2	1.4	4.2	2	0.6	4.8	...			2	0.6	4.8
17	2	0.7	4.8	2	0.7	4.2	...			...		
18	2	0.6	5.4	2	0.7	4.2	2	0.7	4.2	2	0.6	4.8
19	2	0.7	4.2	2	0.7	4.2	2	0.9	4.2	2	0.6	4.8
20	2	1.4	4.2	...			2	0.7	4.2	2	1.4	4.2
21	2	0.9	3.6	2	0.7	4.8	2	1.1	4.2	2	0.9	4.2
22	...			2	0.9	4.2	...			...		
23	...			...			...			...		
24	3	1.2	6.6	...			...			3	0.9	6.6
25	2	0.8	6.6	1	1.1	6.6	2	1.0	6.0	2	1.2	6.0
26	2	1.0	6.6	2	1.0	6.6	2	0.8	6.6	3	1.0	6.0
27	2	1.0	6.6	2	0.9	6.0	2	0.8	6.6	2	1.0	6.0
28	2	1.2	4.2	2	0.9	6.0	...			2	0.8	5.4
29	...			2	1.5	4.2	2	1.2	4.2	2	1.2	4.2
30	...			2	1.0	4.8	2	1.2	4.2	2	1.3	4.2

International Seismological Centre From the ISC collection scanned by SISMOS

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Abril 1958

Componente N-S

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	...			...			...			...		
2	...			...			...			2	1.7	5.4
3	...			2	1.6	7.8	2	1.5	6.6	2	1.7	6.0
4	...			2	1.3	6.6	2	1.2	7.2	2	1.7	6.6
5	2	0.9	6.0	2	1.1	6.6	2	0.9	6.6	2	1.0	5.4
6	...			2	1.2	5.4	2	1.0	5.4	2	1.7	6.0
7	...			2	1.0	5.4	...			...		
8	...			...			...			2	1.2	4.2
9	...			...			...			...		
10	...			...			...			2	1.6	4.2
11	3	2.7	3.6	2	1.3	4.8	2	1.4	4.2	2	1.1	4.8
12	2	2.6	4.2	3	2.6	4.2	...			2	2.4	4.2
13	1	3.1	4.2	...			...			1	3.3	4.2
14	1	1.7	6.0	2	2.6	4.2	...			2	1.7	4.8
15	2	1.4	4.2	2	1.3	4.8	2	1.9	4.2	2	1.3	4.8
16	2	1.2	4.2	2	0.8	5.4	2	1.1	3.6	2	1.2	4.2
17	2	1.2	4.2	2	1.3	5.4	...			...		
18	2	1.2	4.2	2	1.2	4.2	...			2	1.2	4.2
19	2	1.2	4.2	2	0.9	4.2	2	1.4	4.2	2	1.2	4.2
20	...			...			2	1.1	4.8	...		
21	...			...			...			...		
22	...			...			...			...		
23	...			...			...			...		
24	2	0.9	6.6	...			...			2	1.1	6.6
25	2	0.9	6.0	2	0.9	6.0	2	0.9	6.0	...		
26	2	1.0	5.4	2	0.9	6.6	...			2	0.9	6.6
27	2	1.4	4.2	2	1.0	5.4	2	0.8	5.4	2	1.4	4.2
28	2	1.4	4.2	2	1.2	4.2	...			...		
29	...			...			...			...		
30	...			...			...			2	1.9	4.2

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AÑO GEOFISICO INTERNACIONAL

OBSERVATORIO ASTRONOMICO DE LA UNIVERSIDAD NACIONAL

LA PLATA - REPUBLICA ARGENTINA

Deleg. Interventor: Dr. Reynaldo P. Cesco

B O L E T I N S I S M O L O G I C O

Mayo 1958

SANTIAGO DEL ESTERO

" ESTACION SISMOLOGICA " TALA POZO "

$\varphi = -27° 49'3 \quad \lambda = -64° 14' 7$

Instrumentos: E y N Sprengnether y Wiechert Z 80 Kg

Constantes

E L_r= 23.7 A = 100 = 0 T_s 14^s9 T_g= 14^s9 K = 105

N L_r= 25.9 A = 100 = 0 T_s 14^s7 T_g 14^s7 K = 99

Z = 3.0 T_0= 4^s5 V_r= 78 r= 0.08

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
49	8	E	iP	12 41 57	()	i=-		()Amplitud y período ilegible
		N	iP	12 41 57		i=+		Las restantes fases ilegibles
		Z	iP	12 41 57	2	i=-18;19		Ep.24°3 S 67°0 W
			S?	42 35	2	58		USCGS 24° S 67° W
			i	43 50	5	66		H. 12h 40m 46s
			F	53				h= 200 kms
50	9	E	PP?	00 53 35	4	2	4.700	USCGS: 1°5 N 94°5 W
			S	58 20	13	3		H. 00h 44m 12s
			L	01 01 20	16	5		
			L_R	02 25	8	2		
			M	05 05	9	2		
			F	36				
		N	PP	00 53 40	4	3		
			S	58 10	10	3		
			L	01 01 20	15	4		
			L_R	02 30	8	2		
			M	08 00	7	4		
			F	38				
51	9	E	iP	04 41 25				
			F	05 50				
		N	iP	04 41 25				Amplitud y períodos ilegibles
			M	Hora ilegible	4	80		Ep.: 31°0 S 65°2 W
			F	05 38				Movimiento hacia el Noreste
								h.= 180 kms
								USCGS.: 31° S 65°5 W
								H:04h 40m 20s
								h.= 100

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Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
52	18	E	PP	02 53 05	4	1	12.900	USCGS: 13°S 167°W
			PS	03 02 30	16	3		H: 02h 32m 52s
				05 20	10	1		
				16 30	17	1		
			L	28 40	22	3		
			M	32 07	20	5		
			F	05 11				
		N	PS?	03 02 20	4	1		
			L	28 55	23	4		
			M	39 07	18	4		
			F	04 53				
53	18	E	SKS	12 46 50	4	1	12.900	USCGS: 13°S 167°E
			PS	50 50	24	3		H: 12h 21m 18s
			PSS	57 35	10	2		
			L	13 17 50	26	4		
			M	27 57	16	4		
			F	14 56				
		N	SKS	12 46 50	4	1		
			PS	50 50	24	3		
			SS	56 55	16	1		
			L	13 18 10	26	4		
			M	29 07	19	6		
			F	14 42				
54	21	E	P	08 53 55	2		300	
			S	54 25	6			
			L	54 30	4	3		
			M	55 07	10	5		
			F	56				
		N	P	08 53 55	5			
			L?	54 40	4	2		
			M	55 02	10	2		
			F	56				
55	25	E	L	00 50 20	28	3		
			M	53 10	21	3		
			F	01 20				
		N	L	00 50 25	24	2		
			M	55 10	20	1		
			F	01 15				
56	25	E	L	01 35 30	24	1		USCGS: 51°5N 177°W
			M	46 30	16	1		H: 00h 35m 23s
		N	L	01 36 30	18	1		
			M	45 10	19	2		
			F	58				
57	25	E	L	03 52 50	20	1		N indicios débiles
			M	53 25	23	2		
			F	04 17				

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N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
58	25	E	P	06 18 05	4		350	
			S	18 40	4			
			L	19 10	8	7		
			M	20 22	9	5		
			F	38				
		N	P	06 18 05	4			
			S?	18 40	4			
			L	19 10	8	4		
			M	20 55	6	7		
			F	34				
59	25	E	P	21 17 35	4	1y8	3.200	USCGS: 3°S 77°W
			S	22 20	16	17;m59		H: 21h 11m 45s
			L	25 55	27	66		h = 100 km
			M	28 47	22	61		
			F	23 50				
		N	P	21 17 35	4	1y10		
			PP	18 20	4	7		
			iS	22 15	8y24	i=-10;60		
			SSS	24 20	21	36		
			LR	25 50	18	11y29		
			M	29 02	11	26		
			M	31 29	20	46		
			M	37 09	11	29		
			F	23 55				
		Z	P	21 17 30	1y4	1y2		
			S	22 20	2	1		
			L?	27 00	8	3		
			M	31 26	14	12		
			M	38 18	7	2		
			F	47				
60	26	E	P	08 55 35	5		3.200	USCGS:3°S 77°W
			S?	09 00 35	6			H: 08h 49m 47s
			L	03 55	14	2		h = 100 km
			M	06 04	11	2		
			M	15 36	11	3		
			F	10 09				
		N	P	08 55 35	4			
			S	09 00 10	5			
			L	04 30	12	2		
			M	07 52	8	3		
			M	15 00	11	3		
			F	10 04				
61	27	E	P	20 24 25	4		350	
			S	25 00	4			
			L?	25 30	11	6		
			F	29				
		N	P	20 24 25	4			
			S	25 05	4			
			L	25 25	10	2		
			F	30				
62	28	E	L?	23 59 05	8	2		
			M	24 00 35	11	2		
			F	08				
		N	L?	23 59 10	7	2		
			M	24 01 04	10	3		
			F	07				

International Seismological Centre From the ISC collection scanned by SISMOS

Mayo de 1958

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
63	31	E	iP	08 03 37	4	i=+2;3	700	USCGS: 21°5S 64°W
			iS	04 52	7	i=-2;3		H: 08h 01m 27s
			F	09				
		N	iP	08 03 37	4	i=-4;3		
			S?	05 05	5	4		
			F	10				
64	31	E		19 57 10	6	4	12.700	USCGS 15°S 169°E
				20 01 30	22	13		H: 19h 32m 30s
			SS	08 20	24	17		
			L	20 35	30	27		
			M	21 25	29	31		Fuertes μ
			F	22 11				
		N		20 01 40	30	22		
				04 35	31	18		
			SS	08 00	32	33		
			L	18 55	36	59		
			M	21 40	24	29		
			F	22 19				

Prof. Ing. S. Gershanik
Jefe del Departamento
de Geofísica

International Seismological Centre From the ISC collection scanned by SISMOS

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Mayo 1958

Componente E-W

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	...			...			...			2	2.6	4.2
2	...			...			...			...		
3	...			...			...			...		
4	...			...			...			...		
5	...			...			...			...		
6	...			...			...			...		
7	2	1.4	6.0	2	1.7	6.0	2	1.6	6.6	1	1.5	6.0
8	3	1.4	6.0	2	2.0	6.0	2	1.6	5.4	...		
9	2	1.7	4.2	2	1.6	5.4	2	1.7	6.0	2	1.7	4.8
10	...			2	1.7	4.2	2	1.7	5.4	2	1.5	4.2
11	2	1.3	4.2	...			...			...		
12	2	1.3	4.8	2	1.7	4.2	2	1.1	4.2	2	1.3	4.8
13	2	1.1	5.4	2	1.4	4.8	2	1.3	4.8	2	1.1	5.4
14	...			2	0.9	6.0	2	0.9	6.0	...		
15	...			...			...			...		
16	2	0.9	6.0	...			...			2	1.1	5.4
17	2	1.0	5.4	...			2	1.0	5.4	2	1.0	4.8
18	...			2	1.1	4.2	2	1.3	4.2	...		
19	2	1.3	4.2	...			...			2	1.7	4.2
20	2	1.1	4.2	2	1.5	4.2	2	1.1	4.2	2	1.1	4.2
21	2	1.0	4.8	2	1.1	4.2	2	1.3	4.8	2	1.0	4.8
22	2	0.8	5.4	2	1.0	4.8	2	1.3	4.8	2	1.0	4.8
23	2	0.7	4.8	2	0.8	5.4	2	1.3	5.4	2	1.0	5.4
24	2	0.8	4.2	2	0.9	4.8	2	1.0	4.8	...		
25	2	0.8	4.2	2	0.8	4.2	2	0.8	4.2	2	0.8	4.2
26	2	0.8	4.2	2	0.8	4.2	2	0.7	4.8	2	0.7	4.8
27	2	1.0	5.4	2	0.6	4.2	2	0.8	4.2	2	1.1	5.4
28	2	1.7	4.2	2	1.4	4.8	2	1.5	4.2	2	1.5	4.8
29	2	1.3	4.8	2	1.5	4.8	2	1.3	5.4	2	1.4	4.8
30	2	1.6	5.4	2	1.1	5.4	2	1.0	5.4	2	1.5	5.4
31	1	2.3	6.0	2	1.5	5.4	2	1.4	6.0	1	2.3	6.0

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SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Mayo 1958

Componente N-S

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	...			...			...			2	1.4	4.8
2	...			...			...			...		
3	...			...			...			...		
4	...			...			...			...		
5	...			...			...			...		
6	...			...			...			...		
7	2	1.4	6.6	2	2.0	6.0	2	1.9	6.6	...		
8	3	1.5	5.4	2	1.8	4.8	2	1.2	6.0	...		
9	2	1.8	4.2	2	2.0	4.2	2	1.8	4.8	2	2.0	4.2
10	...			...			...			...		
11	2	1.3	4.2	...			...			...		
12	2	1.2	6.0	2	1.3	4.2	2	1.3	4.2	2	1.2	4.8
13	2	1.1	6.0	2	1.0	6.6	2	1.2	6.0	2	1.1	5.4
14	2	1.2	4.8	2	1.2	6.0	2	1.0	6.6	2	1.4	4.8
15	2	1.4	4.8	2	1.1	5.4	2	1.3	4.2	2	1.2	4.8
16	2	1.1	5.4	2	1.3	5.4	2	1.8	4.8	2	1.3	5.4
17	2	1.4	4.8	2	1.1	5.4	2	1.2	4.8	2	1.3	4.2
18	...			2	1.1	4.2	2	1.5	4.2	...		
19	2	1.5	4.2	...			...			2	1.5	4.2
20	2	1.1	4.2	2	1.5	4.2	2	1.3	4.2	2	1.1	4.2
21	2	1.4	4.8	2	1.1	4.2	2	1.1	4.2	2	1.5	4.2
22	...			2	1.8	4.2	2	1.5	4.2	2	1.4	4.8
23	2	0.8	4.8	...			2	0.8	4.8	2	1.2	4.8
24	2	1.1	4.2	2	1.3	4.2	2	1.1	4.2	...		
25	2	1.1	4.2	2	1.1	4.2	2	1.1	4.2	2	1.3	4.2
26	2	1.3	4.2	2	1.3	4.2	2	1.1	4.2	2	1.3	4.2
27	2	1.1	5.4	2	1.1	4.2	2	1.3	4.2	2	1.4	4.8
28	2	1.4	4.8	2	0.9	5.4	2	1.5	4.2	2	1.5	4.2
29	2	1.4	4.8	2	1.3	4.2	2	1.5	4.2	2	1.4	4.8
30	2	1.9	6.6	2	1.1	5.4	2	1.1	6.0	3	1.5	5.4
31	1	3.6	6.0	2	2.0	5.4	2	2.0	6.0	3	2.7	6.6

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AÑO GEOFISICO INTERNACIONAL

OBSERVATORIO ASTRONOMICO DE LA UNIVERSIDAD NACIONAL

LA PLATA - REPUBLICA ARGENTINA

Deleg. Interventor : Dr. Reynaldo P. Cesco

B O L E T I N S I S M O L O G I C O

Junio 1958

SANTIAGO DEL ESTERO

ESTACION SISMOLOGICA " TALA POZO "

$\varphi = -27^\circ\ 49'\ 3 \quad \lambda = -64^\circ\ 14'\ 7$

Instrumentos: E y N Sprengnether y Wiechert Z 80 Kg

Constantes

E	$L_r = 23.7$	$A = 100$	$= 0$	$T_s\ 14^s9$	$T_g = 14^s9$	$k = 105$
N	$L_r = 25.9$	$A = 100$	$= 0$	$T_s\ 14^s7$	$T_g = 14^s7$	$k = 99$
Z	$= 3.0$		$T_o = 4^s5$	$V = 78^g$	$r = 0.08$	

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
65	3	E		20 00 55	11	3		USCGS:15°S 168°E
				02 35	8	2		H:19h 31m 52s
				05 10	10	2		
			L	17 55	32	7		
			M	31 17	19	3		
			M	43 59	20	4		
			F	21 30				
		N		20 00 55	11	2		
				02 40	6	1		
				03 30	7	1		
				05 35	10	1		
			L	17 50	27	5		
			M	38 21	18	3		
			F	21 33				
66	4	E	L	15 27 55	24	2		USCGS:52°5N 167°W
			M	34 55	24	3		H:14h 29m 50s
			F	16 53				
		N		Indicios débiles				
7	5	E		11 18 20	8			
			M	18 54	11	3		
			F	29				
		N		11 18 20	8			
			M	20 23	7	2		
			F	25				

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Junio de 1958

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
68	6	E	iP	09 18 57	4	i=+2;6	4.500	USCGS: 8°N 84°5W
			iPP	20 37	4	i=+12;13		H: 09h 11m 14s
			iS	25 02	11y18	i=+6;33		
			SS?	27 30	16	7		
			L	31 20	24	32		
			M	34 29	22	57		
			F	11 25				
		N	iP	09 18 57	4	i=-3;6		
			iPP	20 37	5	i=-10;18		
			iS	25 02	5y16	i=-12;39		
			SS?	27 25	24	12y26		
			L	30 20	18y30	7y31		
			M	35 44	20	45		
			F	11 15				
		Z	P	09 18 55	2	2		
			PP	20 35	1	1		
69	6	E		12 25 35	6			
			L	27 35	11			
			M	28 25	11			
			F	32				
		N		12 26 25	6			
			L	27 30	8			
			M	29 56	6			
			F	33				
70	6	E	iP	19 22 48	5	i=+	4.200	USCGS: 5°5N 82°5W
				23 55	4			H: 19h 15m 28s
			iS	28 37	11	i=-		
			L R	36 40	26	22		
			M	39 35	20	22		
			F	21 24				
		N	iP	19 22 48	5	i=-		
				24 00	9			
			S	28 35	11			
				29 25	20			
				34 20	13			
			L R	36 50	22	11		
			M	39 19	27	20		
			F	21 20				
		Z		19 22 44	1			
				24 00	1			
71	6	E	PcS	22 57 55	14		4.900	USCGS: 8°N 84°5W
				23 03 05	14			H: 22h 44m 05s
				06 50	9			
			L	09 20	24	3		
			M	10 20	16	2		
			F	32				
		N	PcS	22 57 50	5			
			SSS	23 03 00	12			
			L?	08 10	15	2		
			M	09 23	16	2		
			F	26				

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Junio de 1958

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
72	7	E		11 26 10	4			
				26 25	4			
			M	27 04	12	2		
			F	31				
		N		11 26 10	4			
				26 25	4			
			M	27 02	10	1		
			F	30				
73	7	E	L	13 38 50	16	2		USCGS:53°S 140°E
			M	46 58	17	1		H: 12h 55m 01s
			F	14 11				
		N	L?	13 42 55	26	3		
			M	46 11	20	2		
			F	14 09				
74	8	N	L	16 00 35	14	2		USCGS:16°S 75°W
			M	01 04	10	2		H: 15h 52m 23s
			F	07				SN:Indicios débiles
75	8	E	S?	21 24 25	20	2		
			L R	34 10	12	2		USCGS:7°N 34°5W
			M	35 51	16	3		H:21h 09m 23s
			F	58				
		N	L	21 34 00	16	3		
			M	35 53	16	4		
			F	55				
76	12	E	L?	21 50 00	30	4		USCGS: 53°N 167°W
			M	22 01 48	24	6		H:20h 52m 57s
			F	23 32				Fuertes microsismos
		N	L?	21 51 55	20	3		
			M	22 01 04	18	3		
			F	23 21				
77	15	E	L	19 07 40	28	3		Fuertes microsismos
			M	09 53	20	4		SN:Indicios débiles
			F	17				
78	16	E	L	09 02 10	24	4		USCGS:14°5S 177°5W
			M	03 47	29	4		H:08h 13m 07s
			F	09				Fuertes microsismos
		N	L	09 02 30	24	3		
			M	03 40	22	4		
			F	09				
79	19	E	L	06 25 35	31	6		USCGS:49°5N 156°E
			M	30 01	19	3		H:05h 18m 00s
			F	07 35				
		N	L	06 25 50	28	5		
			M	31 50	19	2		
			F	07 36				

International Seismological Centre From the ISC collection scanned by SISMOS

Junio de 1958 Continuación

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
80	20	E	L	00h17m05s	17	2		
			M	17 34	23	2		
			F	44				
		N	L	00 17 05	16	2		
			M	17 52	12	3		
			F	42				
81	20	E	L	01 38 05	19	2		USCGS: 16°S 173°W
			M	40 53	16	2		H: 00h 47m 58s
			F	52				
		N	L	01 38 40	15	2		
			M	40 59	16	2		
			F	53				
82	24	E	iP	06 40 55	5	i=+2;5	2.400 km	Ep.: 45°8S 79°3W
			iS	44 47	9	i=+7;5		
			L	46 35	26	18		
			M	47 55	15	46		
			F	07 59				
		N	iP	06 40 55	6	i=+5;15		
			iS	44 47	12	i=-6;9		
			L	46 50	26	17		
			M	49 34	11	81		
			F	08 01				
		Z	P	06 41 00	11	1		
			M	49 30	10	11		
			F	57				
83	24	E	L	16 18 35	16	2		
			M	19 35	8	2		
			F	26				
		N	L	16 18 50	14	2		
			M	20 48	8	4		
			F	27				
84	25	E	PKS	09 59 35	4	4	15.800	USCGS: 3°S 144°5E
				10 14 35	12	2		H: 09h 36m 30s
			PSS?	19 05	11	2y3		
			L	45 10	25	13		
			M	11 06 10	20	14		
			F	12 33				
		N	PKS	09 59 35	5	4		
			PPP	10 02 10	9	3		
			SS	17 50	28	9		
			SSS	25 40	16	2		
				29 35	14	4		
			L	45 30	24	9		
			LR?	55 30	19	8		
			M	11 09 25	20	16		
			F	12 34				
85	25	E	S?	23 08 00	12			
			L	09 30	18	8		
			M	10 31	9	10		
			F	25				

International Seismological Centre From the ISC collection scanned by SISMOS

Junio de 1958 — Continuación

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
85	25	N	?	$23^h09^m00^s$	4			
			L	09 35	14	6		
			M	11 39	8	19		
			F	23				
86	27	E	L	00 53 50	20	1		
			M	55 15	20	1		
			F	01 02				
		N	Indicios débiles					
87	27	E	P?	05 53 10	4		5.200 km	USCGS: 13°N 88°5 W
			PPP	55 10	10			H: 05h 44m 28s
			iS	59 45	9	i=+ [illegible]	,7	h: 60 km
			L	06 03 25	16	3		
			F	19				
		N	P?	05 53 10	5			
			PPP	55 05	8			
			iS	59 45	7	i=+ [illegible]		
			L	06 03 20	18	3		
			F	17				
88	29	E	iP	03 28 54	6	i=+1;2	1.500	USCGS: 15°5S 70°5W
			iS	31 23	5	i=+2;3		H: 03h 25m 42s
			iSS	31 43	4	i=+16;20		h: 150 km.-
			M	34 52	13	4		
			F	04 11				
		N	iP	03 28 54	6	i=-2;3		
			iSS	31 43	4	i=+18		
			M	34 39	8	3		
			F	04 10				
89	29	E	L	10 05 00	18	1		USCGS: 16°5S 172°W
			M	07 25	16	1		H: 09h 14m 37s
			F	14				
		N	L	10 05 55	16	1		
			M	07 41	13	1		
			F	12				
90	30	E		19 08 00	8			
			L	08 40	9	2		
			M	09 05	4	3		
			F	13				
		N		19 08 00	6			
			L	08 35	7	2		
			M	09 02	4	3		
			F	13				
91	30	E	L?	19 43 10	24	?		USCGS: 31°N 141°5E
			L	51 00	20	4		H: 18h 26m 20s
			M	52 53	18	3		
			F	20 38				

International Seismological Centre From the ISC collection scanned by SISMOS

Junio de 1958 Continuación

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
91	30	N	L	$19^h50^m35^s$	18	3		
			MR	52 08	18	3		
			F	20 34				

Prof. Ing. S. Gershanik
Jefe del Departamento
de Geofísica

International Seismological Centre From the ISC collection scanned by SISMOS

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Junio 1958

Componente E-W

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	...			2	2.3	6.0	2	1.4	6.0	...		
2	...			...			...			...		
3	2	1.1	4.2	...			...			2	1.0	5.4
4	2	1.3	4.2	2	1.0	5.4	2	1.0	4.8	2	1.0	4.8
5	2	1.0	5.4	2	1.2	4.8	2	1.0	5.4	2	1.1	5.4
6	2	0.8	5.4	2	1.2	4.8	2	1.0	5.4	2	1.0	4.8
7	2	0.6	5.4	2	1.0	4.2	2	0.8	5.4	...		
8	1	0.8	6.0	2	0.6	6.0	2	0.6	6.0	2	0.6	6.0
9	...			...			...			2	0.9	6.0
10	2	1.0	5.4	2	1.3	6.6	...			2	1.2	6.0
11	2	1.5	6.6	2	1.1	6.0	2	1.2	6.6	2	1.3	7.2
12	2	1.3	6.6	2	1.6	6.6	2	1.4	7.2	2	1.6	7.2
13	2	1.6	5.4	2	1.4	6.0	2	1.4	6.0	2	1.6	5.4
14	2	1.6	5.4	2	1.7	6.0	2	1.3	6.6	2	1.8	5.4
15	2	1.5	6.6	2	1.7	4.8	2	1.5	5.4	2	1.7	4.8
16	2	1.0	4.8	2	1.7	4.2	2	1.7	4.2	2	1.1	4.2
17	2	1.0	5.4	2	1.0	5.4	2	1.1	4.2	2	1.5	4.2
18	2	1.5	4.2	2	1.1	5.4	2	1.3	4.2	2	1.3	4.2
19	2	1.1	5.4	2	1.1	4.2	2	1.3	4.2	2	1.0	5.4
20	2	0.7	6.6	2	0.8	5.4	2	1.0	5.4	2	1.0	6.6
21	2	1.2	6.6	2	0.7	6.6	2	0.8	7.8	2	1.3	6.6
22	2	0.9	7.2	2	0.9	6.6	2	1.3	6.6	3	1.0	6.6
23	2	0.9	6.6	2	0.7	6.6	2	0.7	6.6	2	0.9	6.6
24	2	1.1	4.2	2	0.7	6.6	2	0.7	6.6	2	1.0	5.4
25	2	1.5	4.2	2	1.7	4.2	...			2	1.3	4.2
26	2	1.1	6.0	2	1.1	5.4	2	1.0	5.4	2	1.1	5.4
27	2	0.9	4.8	2	1.0	4.8	2	1.0	4.2	2	1.0	4.2
28	2	1.0	4.2	2	1.0	4.8	2	1.1	4.2	2	1.1	4.2
29	2	0.9	4.8	2	1.0	4.2	2	0.8	5.4	2	1.0	4.2
30	2	1.3	6.6	2	1.0	5.4	2	0.9	6.0	2	1.2	6.6

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SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Junio 1958

Componente N-S

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	...			2	2.8	6.6	2	2.1	6.0	...		
2	...			...			...			...		
3	...			...			...			2	1.5	4.2
4	2	1.5	4.2	2	1.5	4.2	2	1.3	5.4	2	1.7	4.2
5	2	1.3	5.4	2	1.3	5.4	2	1.5	5.4	2	1.6	6.0
6	2	1.1	5.4	2	1.3	5.4	2	1.5	5.4	2	1.4	4.8
7	2	1.0	4.8	2	1.2	4.8	2	1.0	5.4	...		
8	1	1.1	5.4	2	1.0	4.8	2	1.0	4.8	2	1.1	5.4
9	...			...			...			2	1.2	6.6
10	...			2	1.4	6.6	...			2	1.4	6.6
11	2	2.1	6.6	2	1.2	7.8	2	0.9	5.4	2	1.4	6.6
12	2	1.7	6.6	2	2.3	7.2	2	2.1	6.6	2	2.1	6.6
13	2	1.6	6.0	2	1.9	6.6	2	2.1	5.4	2	1.3	5.4
14	2	1.8	4.8	2	1.5	5.4	2	1.6	4.8	2	2.1	5.4
15	2	1.5	4.2	2	1.7	4.2	2	2.2	4.2	2	1.8	4.8
16	2	1.5	4.2	2	1.7	4.2	2	1.7	4.2	2	1.7	4.2
17	2	1.3	5.4	2	1.5	5.4	2	1.6	4.8	2	2.0	4.2
18	2	1.5	4.2	2	1.9	4.2	2	1.5	4.2	2	2.0	4.2
19	2	1.5	4.2	2	1.7	4.2	2	2.0	4.2	3	1.3	5.4
20	2	1.4	6.0	2	1.3	4.2	2	1.7	4.2	2	1.5	4.2
21	2	1.5	6.6	2	1.2	6.6	2	1.4	6.6	3	1.5	5.4
22	2	1.2	6.0	2	1.5	6.6	2	1.4	6.6	...		
23	2	1.1	5.4	2	1.2	6.0	2	1.3	5.4	...		
24	2	1.7	4.2	2	1.1	6.0	2	1.1	5.4	2	2.0	4.2
25	2	1.4	4.8	2	1.7	4.2	...			2	1.7	4.2
26	2	1.6	6.0	2	1.6	4.8	2	1.5	5.4	2	1.9	5.4
27	2	1.3	4.2	2	1.1	5.4	2	1.3	5.4	2	1.7	4.2
28	2	1.3	4.2	2	1.4	4.8	2	1.7	4.2	2	1.7	4.2
29	...			2	1.1	4.2	2	1.1	4.2	2	1.0	4.8
30	2	1.2	6.6	2	1.0	4.8	2	1.2	6.0	2	1.4	6.6

International Seismological Centre From the ISC collection scanned by SISMOS

TALA POZO

AÑO GEOFISICO INTERNACIONAL

OBSERVATORIO ASTRONOMICO DE LA UNIVERSIDAD NACIONAL

LA PLATA - REPUBLICA ARGENTINA

Delegado Interventor Dr. Reynaldo P. Cesco

Copied Oct 11

B O L E T I N S I S M O L O G I C O

Julio 1958

SANTIAGO DEL ESTERO

ESTACION SISMOLOGICA ; TALA POZO

$\varphi = 27° 49'3 \quad \lambda = -64° 14'7$

Instrumentos: E y N Sprengnether y Wiechert Z 80 Kg

Constantes

E	$l_r = 23.7$	$A = 100\,\mu = 0$	$T_s = 14^s9$	$T_g = 14^s9$	k= 105
N	$l_r = 25.9$	$A = 100\,\mu = 0$	$T_s = 14^s7$	$T_g = 14^s7$	k= 99
Z	$\varepsilon = 3.0:1$	$T_o = 4^s5$	V=78		r= 0.08 cm

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
92	3	E	SSS	06 24 40	11			USCGS: 18°S 66°E
			L_Q	32 35	36	9		H: 05h 45m 07s
			L_R	39 00	27	6		
			M	42 43	20	7		
		N	L_Q	06 32 25	32	8		
			L_R	39 35	24	4		
			M	47 22	18	5		
			F	07 32				
93	3	E	S	10 39 20	14		5.600	USCGS:55°S 126°W
			SS	42 40	19			H: 10h 23m 02s
			L	45 40	22	8		
			M	52 07	10	5		
			F	11 19				
		N	S	10 39 20	20			
			SS	42 40	19			
			L	45 30	28	4		
			M	51 53	8	4		
			F	11 26				
94	8	E	L	07 01 40	16	2		
			M	02 36	18	3		
			F	11				
		N	Indicios débiles de L con T~18s y A~1 μ					
95	8	E	L	23 29 00	20	3		USCGS: 43°S 41°5E
			M	30 23	20	4		H: 22h 48m 36s
			F	48				

International Seismological Centre From the ISC collection scanned by SISMOS

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
96	10	E	P	06 30 10	12	1	11,300	USCGS: 58°5N 136°W
				32 20	8	1		H: 06h 15m 54s
			PP	34 35	10	4		
				36 25	14	6		
			PPP	36 50	15	5		
				37 50	12	5		
			SKS	40 30	16	4		
			SKKS?	41 55	16y29	7y37		
			PPS	43 50	30	58		
			PKKP	46 25	16	22y33		
			Luego sismograma confuso					
			M	07 15	24	~460		
			F	11 29				
		N	P	06 30 10	12	1		
			P?	33 05	6	2		
			PP	34 30	13	6		
			Luego ilegible					
		Z	PP	06 34 35	2	1		
			L	07 06 10	17	17		
			M	21 42	20	24		
			F	08 09				
97	10	E	L	15 22 20	30	9		
			M	28 52	16	6		
			F	16 10				
		N		15 19 20	24	4		
			L	22 10	24	4		
			M	26 59	16	5		
			F	16 11				
99	11	E	iP	19 12 29	5	i=+3;6	1000	USCGS:21°S 69°W
			iPPP	12 45	4	i=-21;33		H: 19h 10m 20s
			i	13 22	4	i=-14;24		
			M	15	5	97		
			F	20 29				
		N	iP	19 12 29	4	i=-2;4		
		Z	iP	19 12 29	1	1		
			M	15 11	6	18		
			F	22				
98	11	E	L	07 22 20	18	2		
			M	24 16	6	2		
			F	42				
		N	L	07 22 50	10	2		
			M	24 14	5	2		
			F	39				

International Seismological Centre From the ISC collection scanned by SISMOS

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
100	12	E	iP	$00^h 57^m 00^s$	5	i=-3;2	5.100	USCGS:5°S 106°5W
			PPP	59 25	6	2		H: 00h 48m 30s
			iS	01 03 41	10	i=-3;5		
			SS?	07 20	24	6		
			L	10 35	24	20		
			M_R	11 56	17	17		
			F	02 13				
		N	Sin registro					
101	12	E	L	02 54 10	20	4		USCGS:4°5S 105°5W
			M	55 41	16	4		H: 02h 31m 55s
			F	03 13				
		N	Sin registro					
102		E		13 08 40	12	5		USCGS:29°5S 113°W
			L	11 55	14	4		H: 12h 54m 18s
			L_R	13 10	13	5		
			M_R	15 52	18	14		
		N		13 08 50	8	4		
			L	11 55	18	8		
			L_R	13 00	18	13		
			M_R	15 43	9	11		
			F	14 18				
103	17	E	P?	22 39 35	4			
			M	40 43	4	6		
			F	44				
		N	P?	22 39 35	4			
			L?	40 35	5	3		
			M	40 52	6	5		
			F	44				
104	19	E	P'	18 36 50	4		16.900	USCGS: 0° 129°E
			SS	19 10 50	22		16.900	H: 18h 16m 52s
			SSS?	18 25	24			
			L?	21 20	38	11		
			M	38 34	24	11		
			F	20 41				
		N	P'	18 36 55	7			
				38 30	28			
				46 20	20			
			L	19 21 25	32	8		
			L_R	30 25	30	12		
			M_R	38 41	24	13		
			F	20 46				
105	20	E	P	11 45 40	6		800	USCGS:31°5S 71°W
			iPPP	45 56	4	i=-		H: 11h 43m 57s
			i	46 12	4	i=+		
			L?	47 00	6	7		
			M	48	4	61		
			F	12 10				

International Seismological Centre From the ISC collection scanned by SISMOS

Julio de 1958

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
105	20	N	P	11 45 40	4			
cont.			iPPP	45 55	4	i=-		
			i	46 12	4	i=+		
			iS?	46 28	4	i=+		
			L?	47 00	5	22		
			M	48	4	53		
			F	12 12				
106	21	E		06 05 40	18			
			L	09 00	20	4		
			M	09 16	16	4		
			F	16				
		N		06 05 50	16			
			L	09 05	20	3		
			M	09 16	16	4		
			F	16				
107	21	E	P	18 12 20	4		900	
			S	13 55	4			
			L	14 05	5	4		
			M	14 26	4	20		
			F	21				
		N		18 13 20	4			
			S	13 50	4			
			L	14 20	6	3y7		
			M	14 55	4	11		
			F	22				
108	26	E	iP	17 40 23	4	i=+75	1.800	Ep:13°5S 70°0W
				Luego ilegible				h = 620 km
		N	iP	17 40 23	~4	i~-127		USCGS:13°5S 69°W
				Luego ilegible				H: 17h 37m 09s
		Z	iP	17 40 23	2	i=+39;368		h~650 km
			S	43 00	2	49		
			L	44 05	10	385		
			M	44 40	7	167		
			F	18 37				
109	29	E		Sin registro			5.300	USCGS:4°N 26°5W
		N	S	21 52 50	5			H: 21h 37m 25s
			PS	53 00	6			
			SS	56 30	13			
			L	22 01 50	16	4		
			M	05 10	12	5		
			F	39				
110	30	E		Sin registro				USCGS: 1800 millas
		N	PcS?	15 25 20	6			al SW de Easter Isld.
			ScS?	30 05	18			H: 15 h 10m 18s
			L	33 00	10	3		
				35 20	9	2		
			M	36 18	8	4		
			F	16 37				

International Seismological Centre From the ISC collection scanned by SISMOS

Julio de 1958

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
111	31	E		Sin registro				
		N		12 03 05	2			USCGS: Prov. de San Juan (Argentina)
			S?	03 20	4			H: 12h 00m 57s
			M	04 02	4	8		h = 150 km
			F	11				

Prof. Ing. Simón Gershanik
Jefe del Departamento
de Geofísica

NOTA: El epicentro del terremoto N° 108 ha sido calculado en base a las horas de P de Tala Pozo, San Juan, La Plata y Pasadena.

International Seismological Centre From the ISC collection scanned by SISMOS

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Julio 1958

Componente E-W

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	2	1.8	6.6	2	1.6	6.6	2	1.4	7.2	2	1.8	6.6
2	2	1.8	5.4	2	1.8	6.6	2	1.6	5.4	2	1.8	5.4
3	2	1.5	5.4	2	1.6	5.4	2	1.6	5.4	3	2.1	4.8
4	2	1.2	6.0	2	1.5	5.4	1	1.6	6.6	3	1.2	6.0
5	1	1.3	5.4	2	1.6	4.8	2	1.4	4.8	1	1.7	4.8
6	1	1.0	5.4	2	1.5	5.4	2	1.1	5.4	1	1.2	4.8
7	2	1.5	5.4	2	1.0	5.0	3	1.2	4.8	2	1.2	4.8
8	2	1.1	5.4	2	1.3	5.4	2	1.5	5.4	1	1.1	5.4
9	2	1.5	5.4	1	1.1	5.4	1	1.1	5.4	2	1.1	5.4
10	2	1.3	5.4	1	1.3	6.6	1	1.3	6.6	2	1.4	6.0
11	2	1.3	5.4	1	1.5	5.4	1	1.3	5.4	2	1.3	5.4
12	1	1.3	6.6	2	1.6	5.4	2	1.2	6.6	2	1.3	6.6
13	2	1.6	5.4	2	1.3	6.6	2	1.9	5.4	2	1.6	5.4
14	2	1.2	6.6	2	1.9	5.4	2	1.7	6.0	2	1.2	6.0
15	2	1.3	6.6	2	1.2	6.6	2	1.2	6.6	2	1.3	6.6
16	2	2.4	6.6	2	1.6	7.8	2	1.6	8.4	2	2.6	7.2
17	2	2.2	6.6	2	2.4	7.2	2	2.8	6.6	1	2.6	5.4
18	1	2.1	6.0	2	2.2	6.6	1	2.2	7.2	1	2.2	6.6
19	1	2.0	7.2	1	1.9	6.6	2	1.9	6.6	2	1.8	6.6
20	1	1.9	6.6	2	1.6	6.6	...			2	1.6	6.6
21	2	2.0	6.0	1	1.8	6.6	1	1.6	6.6	2	1.8	6.6
22	1	1.6	6.6	2	1.5	6.0	1	2.1	6.6	2	1.8	6.6
23	1	1.3	6.6	2	1.2	6.6	...			2	1.3	6.6
24	2	1.6	7.8	2	1.3	6.6	2	1.1	7.2	2	1.4	7.8
25	2	0.9	6.6	1	2.0	7.8	1	1.3	7.8	2	1.3	7.8
26	2	1.6	7.8	2	1.3	7.8	2	1.6	7.8	2	1.6	7.8
27	...			2	1.6	6.6	2	1.1	7.2	...		
28	...			...			...			...		
29	...			...			...			...		
30	...			...			...			...		
31	2	1.2	6.6	...			...			2	1.0	6.0

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International Seismological Centre From the ISC collection scanned by SISMOS

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Julio 1958

Componente N-S

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	...			...			2	1.4	6.6	2	1.4	6.6
2	2	1.4	4.8	2	1.5	5.4	2	1.9	4.2	2	2.2	4.2
3	1	1.9	4.2	2	1.8	4.8	2	1.8	4.8	1	2.2	5.4
4	1	1.7	5.4	1	1.9	5.4	3	2.0	7.8	3	2.0	7.2
5	2	1.3	5.4	1	1.9	4.2	2	1.5	4.2	2	1.6	4.8
6	2	1.2	6.0	2	1.3	5.4	2	1.1	5.4	2	1.1	5.4
7	...			2	1.6	6.0	2	1.2	4.8	2	0.9	5.4
8	...			...			...			...		
9	2	0.9	5.4	2	0.9	5.4	...			2	1.7	5.4
10	2	1.3	5.4	2	1.1	6.0	2	0.9	6.0	1	1.7	6.6
11	...			2	1.5	5.4	2	1.5	5.4	2	1.3	5.4
12	3	1.2	7.2	...			...			3	1.4	6.6
13	2	1.8	6.0	2	1.2	6.6	1	1.4	6.0	2	1.9	5.4
14	2	1.0	6.6	2	1.4	6.0	2	1.4	6.0	2	1.2	6.0
15	2	1.0	7.2	2	1.1	6.0	2	1.1	8.4	2	1.0	7.2
16	...			2	1.3	7.8	2	1.5	6.6	3	1.7	7.2
17	2	1.9	6.6	...			...			3	2.4	6.6
18	1	1.9	6.6	2	2.2	6.6	2	1.8	7.2	1	2.2	6.6
19	2	1.4	6.6	2	1.9	6.6	1	1.7	6.6	2	1.8	6.0
20	2	1.5	6.6	2	1.5	6.6	...			3	1.7	6.6
21	2	1.4	6.6	1	1.7	6.6	2	1.4	6.6	3	1.1	6.0
22	2	1.4	6.6	2	1.5	5.4	2	1.7	6.6	3	1.7	6.6
23	2	1.0	7.2	2	1.0	6.6	3	1.1	6.0	3	1.3	7.2
24	2	1.6	7.8	2	1.0	6.6	2	1.0	7.2	3	1.3	5.4
25	2	1.2	7.8	1	1.8	7.8	2	1.5	7.8	2	1.3	7.2
26	2	1.3	7.8	2	1.3	7.2	2	1.2	6.6	...		
27	2	1.6	4.8	3	1.3	7.2	2	1.6	4.8	3	1.7	5.4
28	2	1.5	5.4	2	1.4	6.6	2	1.7	5.4	2	1.4	4.8
29	2	1.2	4.8	2	1.3	5.4	2	1.3	4.2	2	1.3	4.2
30	2	1.0	4.8	2	1.1	5.4	2	0.9	5.4	2	1.0	4.8
31	2	1.0	6.6	2	1.0	4.8	2	1.0	4.8	2	0.9	5.4

International Seismological Centre From the ISC collection scanned by SISMOS

AÑO GEOFISICO INTERNACIONAL

OBSERVATORIO ASTRONOMICO DE LA UNIVERSIDAD NACIONAL

LA PLATA - REPUBLICA ARGENTINA

Delegado Interventor: Dr. Reynaldo P. Cesco

B O L E T I N S I S M O L O G I C O

Agosto 1958

SANTIAGO DEL ESTERO

ESTACION SISMOLOGICA " TALA POZO "

$\varphi = -27° 49'3 \quad \lambda = -64° 14'7$

Instrumentos: E y N Sprengnether y Wiechert Z 80 Kg

Constantes

E	l_r= 23.7	A = 100	= 0	Ts= 14^s9	Tg= 14^s9	k= 105
N	L_r 25.9	A = 100	= 0	Ts= 14^s7	Tg= 14^s7	k= 99
Z	= 3.0:1		To = 4^s5	V=78		r=0.08 cm

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
112	6	E	P	09 52 50	4		400	USCGS: 24°S 63°W
				53 35	7			H: 09h 51m 24s
			iS	53 51	4			
			M	54 31	4	14		
			F	10 01				
		N	P	09 52 50	4			
			iS	53 50	4			
			M	54 43	4	11		
			F	10 00				
		Z	iP	09 52 49	2			
			S	53 51	1			
			M	54 33	1	4		
			F	59				
113	6	E	L	21 55 05	24	3		USCGS:17°S 173°W
			M	57 13	20	5		H: 21h 09m 09s
			F	22 06				
		N	L	21 55 25	20	2		
			M	57 38	19	2		
			F	22 08				
114	9	E	?	12 56 05	4			USCGS: 750 millas al
			S	13 02 25	11			NE de Islas Sandwich
			L	08 00	36	4		H: 12h 47m 55s
			M	11 09	21	10		En componente E, F
								está a 14h 00m.
		N	S	13 02 35	13			
			L	08 05	28	3		
			M	13 28	39	45		
			F	14 04				

International Seismological Centre From the ISC collection scanned by SISMOS

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
115	12	E	PKP	19 45 20	6		17.000	USCGS: 0° 126°5 E
			SS	20 08 40	36			H: 19h 25m 05s
			L	33 05	48	9		
			M	55 32		5		
			F	21 44				
		N	PKP	19 45 10	4			
			SS	20 08 50	20			
			SSS?	17 30	40			
			L	34 00	36	5		
			M	42 45	28	7		
			F	21 41				
116	13	E	P	23 25 30	4		700	
			S	26 40	4			
			M	27 46	3	24		
			F	38				
		N	P	23 25 30	5			
			S	26 40	4			
			M	27 36	4	17		
			F	37				
		Z	P	23 25 30				
			S	26 44	2			
			M	27 46	2	12		
			F	38				
117	14	E	SS	15 32 50	8	2	14.000	USCGS: 52°N 175°W
			SSS?	37 00	6	3		H: 14h 55m 10s
			L	55 05	22	2		
			M	16 06 13	16	4		
			F	17 28				
		N	S	15 32 55	17	3		
			L	55 20	26	3		
			M	16 05 10	16	3		
			F	17 28				
118	15	E	PP	20 18 20	4y25	5		USCGS 53°N 160°5 E
			SKKS?	24 40	15	2		H:19h 55m 39s
				26 05	24	4		
			PPP	30 25	20	4		
			SS	36 00	32	15		
			SSS?	45 20	28	6		
				52 10	36	20		
			L	56 40	52	45		
			M	21 03 01	28	17		
			F	Confundido con el siguiente				
		N	iPP	20 18 22	5y24	4y9		
			SKKS?	24 50	24	5		
			PPP	30 25	24	5		
			SS	35 55	28	16		
				50 40	36	14		
			L	21 02 25	32	18		
			MR	03 17	28	11		
			M	18 09	24	10		
			F	Confundido con el siguiente				

International Seismological Centre From the ISC collection scanned by SISMOS

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
119	15	E	PKKP	22 57 10	18	5		Hasta 22h 56m sin registro por falta de corriente.
			PKKS?	23 01 20	14	4		
				11 05	14	4		USCGS: 1°5N 125°E
			SS	11 40	20	45		H: 22h 29m 17s
			L?	15 40	38	26		
			L_R	31 00	30	32		
			M_R	35 20	30	64		
			F	01 11				
		N	PKKS	23 00 30	20	6		Hasta 22h 56m sin registro por falta de corriente.
				03 50	27	18		
				08 50	16	11		
			SS	11 50	20	20		
			L	16 40	36	38		
			M	33 51	26	16		
			M	55 00	24	21		
			M	57 26	22	22		
			F	01 14				
120	16	E	L	07 16 40	5	1		
			M	18 06	7	3		
			F	22				
		N	L	07 16 50	4	2		
			M	17 47	12	3		
			F	23				
121	16	E	L	14 17 55	28	3		USCGS: 51°5N 176°W
			M	22 37	20	4		H: 13h 17 m 52s
			F	40				
		N	Indicios débiles					
122		E		19 38 05	12		13.300	USCGS:34°5 N 48° E
			SKS	40 20	06			H: 19h 13m 45s
			SKKS	41 10	07			
			PPS	45 25	24			
			PPP	49 35	20			
			PSS	51 00	36			
			SSS	55 25	28			
				59 40	24			
				20 02 55	26			
			L	08 20	28	6		
			L_R	15 40	32	21		
			M_R	29 59	19	17		
			M	37 43	16	14		
			F	21 47				
		N	PKP?	19 32 10	12			
			PPP	37 40	14			
			PS	44 05	9			
			PPS	45 30	18			
				49 10	20			
			SS	50 40	30			
				54 10	20			
				58 25	36			
				20 04 30	28			
			L	09 40	33	10		
			M	31 43	18	14		
			F	21 48				

International Seismological Centre From the ISC collection scanned by SISMOS

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
123	17	E		18 51 40	13			
			L	19 06 10	22	3		
			M	10 29	24	6		
			F	29				
		N	L	19 06 20	32	4		
			M	09 22	24	4		
			M	15 38	21	3		
			F	36				
124	17	E	L	21 54 40	24	2		USCGS: 35°5S 179°5W
			M	22 08 23	16	1		H: 21h 11m 09m
			F	12				
		N	L	21 59 05	21	2		
			M	22 01 49	16	1		
			F	17				
125	20	E	PS	04 09 30	20	2	13.000	USCGS:14°S 167°E
			L	38 00	21	1		H: 03h 40m 07s
			M	44 35	16	2		
			F	06 06				
		N	SS	04 15 50	10	1		
				30 20	30	5		
			L	38 55	20	2		
			M	44 51	16	2		
			F	06 07				
126	20	E	P?	17 33 05	6		1.200	
			S	35 05	6			
			M	36 10	9	12		En componente E, F está a 18h 19m
		N	P	17 34 30	7			Tiempos, períodos y amplitudes ilegibles
			S	35 05				
			M	36				
			F	18 17				
		Z		17 34 30	1			
			S?	35 05	2			
			F	38				
127	21	E	iP	00 14 52	5		870	USCGS:20°S 65°W
			iS	16 16	5			H: 00H 12m 53s
			M	17 18	4	13		Sentido del movimiento: dudoso
			F	26				
		N	Ilegible					
		Z	P	00 14 55	1			
			PP	15 00	2			
			S	16 20	1			
			M	17 03	2	2		
			F	21				
128	21	Z	iP	13 28 49	1.4	i=-24;30		
			F	30				
129	24	E	P?	04 26 35	5		850	
			iS	28 03	3			
			L	29 00	5	7		
			M	29 58	7	22		
			F	57				
		N	PPP?	04 27 05	4			
			S	28 00	8			
			L?	29 05	5	13		
			M	29 55	4	15		
			F	47				
		Z	S	04 28 05	1			
			M	29 10	2	6		
			F	32				

International Seismological Centre From the ISC collection scanned by SISMOS

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
130	27	E		02 40 35	11			USCGS: 4°5S 104°5W
			L	47 35	24	10		H: 02h 25m 32s
			MR	48 46	16	8		
			F	03 16				
		N	L	02 45 35	18	3		
			M	47 58	18	5		
			F	03 00				
131	27	E		16 00 50	9			
			L	07 30	28	8		
			M	19 00	20	11		
			F	47				
		N	L	16 06 55	28	4		
			M	20 50	16	10		
			F	54				
132	28	E	P?	09 38 10	4		1000	USCGS:33°5S 69°5W
			S	39 55	4			H: 09h 36m 06s
			M	40	6	13		Hora ilegible
			F	55				
		N	PP	09 38 10	5			Fuertes sismos
			S?	40 10	7			
			M	40	4	13		Hora ilegible
			F	53				
		Z	P	09 38 05	1			
			PP	38 12	1			
			S	39 55	1			
				40 25	2			
			M	40 29	2			
			M	41 20	2	12		
			F	44				

International Seismological Centre From the ISC collection scanned by SISMOS

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Agosto 1958

Componente N-S

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	2	1.4	6.8	3	1.7	6.4	3	1.9	6.4	2	1.9	6.4
2	3	1.6	6.4	3	1.7	6.4	2	1.3	7.2	2	1.9	6.4
3	3	1.6	6.4	3	2.0	4.8	2	2.1	4.4	2	2.2	4.8
4	2	2.2	4.8	1	2.3	4.4	2	2.0	4.8	2	1.7	5.2
5	2	1.8	5.6	2	1.7	6.4	2	1.9	6.4	2	1.6	6.0
6	2	1.6	6.0	2	1.2	6.0	3	1.2	6.0	2	1.6	5.6
7	2	0.9	5.6	2	1.2	6.0	2	1.0	6.4	2	1.0	6.4
8	2	1.4	6.8	2	1.4	6.8	3	1.3	7.2	2	1.4	6.8
9	2	1.0	6.8	2	1.5	5.2	2	1.6	5.6	2	1.6	4.8
10	2	1.9	4.4	1	2.6	4.8	1	3.0	4.8	1	2.5	5.6
11	2	1.6	5,6	2	1.8	5.6	3	1.4	5.6	3	1.3	4.4
12	2	1.3	5.6	2	1.0	5.2	3	0.8	5.2	2	1.1	5.2
13	2	1.0	4.8	2	1.0	5.2	2	1.0	5.2	3	0.9	5.6
14	2	0.9	6.0	2	1.1	6.0	2	1.1	5.6	2	1.2	6.0
15	3	1.2	6.4	2	1.1	5.6	2	1.1	5.6	2	1.1	6.0
16	...			2	1.1	6.0	1	1.5	4.4	1	1.4	4.0
17	2	1.3	4.4	2	1.5	4.4	2	1.6	4.0	2	1.8	4.0
18	2	1.4	4.0	3	1.3	4.4	3	1.3	5.2	2	1.1	5.2
19	2	1.1	5.6	1	1.2	6.0	2	1.2	4.8	2	1.1	5.2
20	2	1.1	4.4	2	1.1	4.0	2	1.4	4.0	...		
21	2	1.3	4.4	2	1.5	4.4	3	1.9	4.4	3	2.3	4.4
22	3	1.7	4.4	1	1.7	4.4	2	2.2	4.8	2	2.4	5.6
23	2	1.6	5.6	2	1.8	5.6	2	1.6	5.6	3	1.4	6.0
24	2	1.4	6.8	2	1.8	6.0	2	1.6	6.4	2	1.5	6.8
25	2	1.2	6.0	3	1.4	6.4	3	1.6	6.0	3	1.5	6.8
26	3	1.3	5.6	3	1.6	5.6	3	1.9	6.8	3	2.1	6.4
27	3	1.4	6.4	3	1.5	6.8	3	1.6	5.6	3	1.8	6.0
28	3	1.8	4.8	3	1.8	5.6	3	1.5	5.2	3	2.3	6.0
29	3	2.1	5.2	3	2.5	5.2	3	2.2	4.8	3	2.2	4.8
30	1	2.2	4.8	1	1.7	4.4	1	1.6	5.6	...		
31	...			...			...			2	2.2	7.2

International Seismological Centre From the ISC collection scanned by SISMOS

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Agosto 1958

Componente E-W

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	3	1.6	5.6	3	1.7	4.8	3	2.0	6.0	2	1.6	5.6
2	3	1.6	7.6	3	1.7	4.8	2	1.2	6.0	2	1.6	6.4
3	3	1.6	5.6	3	1.7	4.8	2	1.7	4.4	2	1.8	4.4
4	2	2.2	4.4	1	1.8	4.4	2	1.7	4.4	2	1.8	4.8
5	2	1.9	5.6	2	1.9	5.6	2	2.0	6.0	2	1.6	5.6
6	2	2.0	6.4	2	1.4	6.4	2	1.2	6.0	2	1.4	6.0
7	2	0.9	6.0	2	1.1	5.6	2	1.2	6.0	2	1.1	6.0
8	2	1.1	6.0	2	1.5	6.8	3	1.4	6.8	2	1.1	6.2
9	2	1.2	6.0	2	1.6	6.4	2	1.4	6.4	2	1.6	5.6
10	1	1.9	4.8	1	2.6	4.4	1	2.8	4.8	3	1.9	5.4
11	3	2.3	4.8	3	1.7	5.6	2	1.7	4.8	2	1.3	5.4
12	2	1.1	5.6	2	1.0	5.2	2	1.0	4.8	2	1.0	5.2
13	2	1.1	5.6	2	1.3	5.2	2	1.0	6.4	3	1.2	6.4
14	2	1.2	6.4	2	1.3	5.6	2	1.4	6.0	2	1.1	5.6
15	3	1.5	6.4	2	1.2	6.4	2	1.1	5.6	2	1.2	6.0
16	...			2	1.2	6.0	1	1.3	5.2	2	1.0	6.4
17	1	1.2	5.2	2	1.8	4.0	3	2.2	4.0	3	1.8	4.0
18	3	1.6	4.0	3	1.6	4.0	3	1.5	4.4	2	1.4	6.4
19	2	1.0	6.4	1	1.5	6.0	2	1.3	5.6	2	1.2	5.2
20	2	1.3	4.4	2	1.2	4.4	2	1.1	4.4	...		
21	2	1.4	4.8	2	2.2	4.4	3	2.4	4.4	3	3.3	4.8
22	3	2.8	4.8	1	2.4	4.8	1	2.3	4.8	2	1.7	4.8
23	2	1.2	4.8	2	1.4	4.8	2	1.2	6.0	3	1.3	5.6
24	2	1.2	6.4	2	1.2	6.0	2	1.4	6.8	2	1.6	6.8
25	2	1.9	7.2	3	1.6	7.2	3	1.5	6.0	3	1.8	5.2
26	3	1.7	5.2	3	1.9	6.8	3	2.4	6.8	2	1.8	6.4
27	3	1.6	7.6	3	1.5	6.4	3	1.6	5.6	3	1.8	6.4
28	3	1.8	5.2	3	1.9	5.6	3	1.6	5.6	3	2.3	5.2
29	3	2.0	5.2	3	2.6	5.2	3	2.5	5.2	3	2.4	4.8
30	3	2.1	5.2	3	2.0	5.2	3	1.7	6.0	2	1.2	6.4
31	2	1.2	6.0	2	0.9	6.4	2	1.2	6.4	2	1.6	6.8

International Seismological Centre From the ISC collection scanned by SISMOS

AÑO GEOFISICO INTERNACIONAL

OBSERVATORIO ASTRONOMICO DE LA UNIVERSIDAD NACIONAL

LA PLATA - REPUBLICA ARGENTINA

Delegado Interventor: Dr. Reynaldo P. Cesco

B O L E T I N S I S M O L O G I C O

Septiembre 1958

ESTACION SISMOLOGICA " TALA POZO "

$\varphi = -27° 49'3 \quad \lambda = -64° 14'7$

Instrumentos: E y N Sprengnether y Wiechert Z 80 Kg

Constantes

E	$l_r = 23.7$	$A = 100$	$\mu = 0$	$Ts = 14^s9$	$Tg = 14^s9$	$k = 105$
N	$l_r = 25.9$	$A = 100$	$\mu = 0$	$Ts = 14^s7$	$Tg = 14^s7$	$k = 99$
Z	$\varepsilon = 3.0:1$			$To = 4^s5$	$V = 78$	$r = 0.08$ cm

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
133	1	E	S	14 35 00	4		1.100	USCGS: 18°S 65°W
			L	36 00	11	4		H: 14h 30m 46s
			M	36 30	12	18		
			F	15 00				
		N	SSS	14 35 35	5			
			L	36 30	12	4		
			M	37 34	9	15		
			F	56				
134	3	E	P	03 53 35	7		5.800	USCGS: 0° 18W
			PcP?	54 10	7			H: 03h 44m 24s
			PP	55 10	6			
			S	04 01 05	18			
			SS	04 35	21			
			L_R	08 30	26	6		
			M_R	11 45	13	10		
			F	05 38				
		N	P	03 53 30	6			
			S	04 01 05	7			
			SS	04 30	20			
			SSS	06 25	19			
			L?	06 50	40	13		
			L_R	08 50	24	14		
			M_R	12 33	12	16		
			F	05 22				
135	4	E		21 30 05	5			
			M	31 40	8	4		
			F	44				
		N		21 29 50	4			
			M	31 26	4	7		
			F	41				
		Z	Indicios débiles de T=2s y A= 1					

International Seismological Centre From the ISC collection scanned by SISMOS

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
136		Z	eP	21 53 07	4	e=+1;29		Comp. E y N: ver al final del mes.
			S	54 10	5y9	10y84		
			SSS	54 40	4	29		
				55 25	5	209		
			M	57	8	572		
				22 04 00	10	i=+83;59		
				05 11	6	i=+20;20		
			F	51				
137	5	E	SS?	03 44 50	4			USCGS: Límite argentino Chileno. H: 03h 41m 22s
			L	45 25	4	6		
			M	47 29	6	10		
			F	59				
		N	L	03 45 20	4	4		
			M	46 35	3	13		
			F	56				
138	5	E		06 16 20	4			USCGS: 34°S 70°W H: 06h 12m 58s
			M	17 25	4	3		
			F	45				
		N		06 16 35	4			
			L	17 00	4	5		
			M	17 27	4	21		
			F	34				
		Z		06 16 05	2	1		
			L	17 10	4	3		
			M	17 53	3	5		
			F	22				
139	7	E	L	05 18 50	5	3		
			M	19 23	4	4		
			F	24				
		N	L	05 18 40	4	2		
			M	19 06	4	4		
			F	24				
140	7	E	L	13 53 00	4	2		Poco claro debido μ
			M	53 18	4	5		
			F	14 00				
		N	L	13 53 05	5	2		
			M	53 37	3	5		
			F	59				
141	8	E		22 27 05	4			USCGS: 34°S 70°W H: 22h 24m 55s
			L	28 50	5	5		
			M	30 53	7	38		
			F	50				
		N		22 27 05	4			
			L	29 10	8	3		
			M	30 23	8	24		
			F	50				
		Z		22 27 00	1	1		
			L	29 10	3	1		
			M	30 07	2	6		
			F	49				

International Seismological Centre From the ISC collection scanned by SISMOS

TALA POZO ~~La Plata~~ 844

Septiembre de 1958 (3)

N°Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
142 10	E	P	07 09 05	5		500	
		S	10 00	2			
		M	10 53	4	4		
		F	13				
	N	S	07 10 00	2			
		L?	10 20	6	1		
		M	10 55	3	4		
		F	14				
	Z	S	07 10 00	2	1		
		M	10 13	1	5		
		F	12				
143 11	E	P	01 01 40	3		900	
		S	03 10	4			
		L	03 50	4	5		
		M	04 17	3	10		
		F	16				
	N	P	01 01 50	4			
		S	03 10	3			
		L	04 00	4	6		
		M	04 52	3	13		
		F	12				
	Z	L	01 03 55	2	1		
		M	04 23	2	3		
		F	05				
144 18	E	L	15 03 05	40	11		USCGS: 0°5N 30°W
		N	05 33	15	5		H: 14h 41m 40s
		M	08 00	16	8		
		F	33				
	N	L	15 02 40	29	6		
		M	05 22	17	8		
		F	38				
145 19	E	P	23 09 20	7		250	
			09 40	4			
		S?	09 50	4			
		M	11 39	8	5		
		F	15				
	N	S?	23 09 50	4			
		M	11 23	3	10		
		F	18				
	Z	S?	23 09 40	1	1		
		M	10 31	1	5		
		F	12				
146 22	E	P	19 18 55	4	2	10.200	USCGS: 33°5S 177°5W
		PP	22 35	4	1		H: 19h 05m 44s
		S	29 55	8	6		
		PS	31 05	10	2		
		SSS	39 40	32	7		
			43 20	28	4		
		L	48 55	40	11		
		M	51 07	21	14		
		F	20 52				

International Seismological Centre From the ISC collection scanned by SISMOS

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
146	22	N	P	19 18 55	4	2		
				21 35	10	2		
				23 55	9	2		
			S	29 40	8	3		
			PS	31 05	5	4		
				32 25	19	3		
				33 10	16	3		
				34 05	10	3		
			SSS	39 40	29	6		
			L	49 00	22	5		
			M	54 31	20	6		
			F	20 50				
147	24	E	PP	13 55 10	4		900	USCGS: Chile Central
			S	56 30	4			H: 13h 53m 05s
			M	59 09	5	8		
			F	14 08				
		N	PP	13 55 10	4			
			S	56 30	4			
			SSS	57 05	9			
			M	58 12	4	8		
			F	14 09				
8	25	E	P	07 28 05	5	2	4.900	USCGS: 9°N 39°5W
			PP	29 50	6	4		H: 07h 20m 01s
			PPP	30 40	4	3		
			S	34 35	8	4		
			iScS	38 04	12	i=-11;14		
			L	40 40	27	28		
			M	43 14	18	52		
			F	09 29				
		N	iP	07 28 04	5	i=-3;3		
			iS	34 34	7	i=-14;10		
			iScS	38 05	9	i=+8;14		
			L	40 35	21	10		
			M	42 58	22	51		
			F	09 09				
149	25	E	S	20 36 10	4			USCGS: 36°S 98°W
			L	38 50	10	1		H:20h 24m 44s
			M	39 40	13	3		
			F	54				
		N	L	20 37 50	15	3		
			M	39 20	12	4		
			M	42 08	7	6		
			F	54				
136 cont.	4	E	iP	21 53 09	4	i=+3;73	800	USCGS:33°5S 69°5W
			Luego ilegible; M con T~ 7s y A~ 130 μ					H: 21h 51m 08s
			F	01 40				
		N	iP	21 53 09	4	i=+4;47		
			Luego ilegible; M con T~8s y A~ 120 μ					
			F	01 38				

Prof. Ing. S. Gershanik
Jefe del Departamento
de Geofísica

International Seismological Centre

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Setiembre 1958

Componente N-S

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	2	1.4	6.4	2	1.5	7.6	2	1.3	7.6	2	1.5	7.6
2	2	1.8	7.6	2	1.5	7.6	2	1.3	7.2	3	1.3	7.2
3	1	1.3	7.2	1	1.2	6.4	2	0.9	6.0	2	1.2	7.2
4	...			3	1.3	5.6	2	1.1	5.2	3	1.3	5.2
5	...			2	1.8	4.0	2	1.5	4.4	3	1.7	4.4
6	2	1.7	4.4	2	1.7	4.4	2	1.7	4.4	2	1.5	4.4
7	3	1.5	4.4	2	1.5	4.4	2	1.5	4.4	2	1.7	4.4
8	2	1.8	4.0	2	1.7	4.4	2	1.5	4.4	2	1.3	4.4
9	2	1.4	4.8	2	1.3	5.6	2	1.3	5.6	2	1.2	6.0
10	2	1.3	5.6	2	1.1	5.6	2	1.1	6.0	3	1.3	5.2
11	3	1.1	5.6	2	0.8	5.2	2	1.0	5.2	3	1.1	5.6
12	...			...			...			2	1.2	6.0
13	2	1.1	6.0	3	1.2	6.4	3	1.4	6.8	3	1.7	7.2
14	3	1.8	7.6	3	1.7	8.0	3	1.8	7.2	3	1.8	7.2
15	3	1.5	7.2	2	1.4	6.8	2	1.4	6.0	3	1.7	4.4
16	3	1.8	4.8	3	1.8	4.8	3	1.4	6.4	2	1.7	6.8
17	2	1.5	7.2	2	1.8	7.6	2	3.0	8.4	2	2.8	8.4
18	2	2.2	8.4	2	1.9	6.4	2	2.0	8.0	2	1.7	8.0
19	2	1.7	6.8	2	1.7	7.6	2	1.8	7.6	2	1.5	7.6
20	2	1.3	8.0	2	1.7	7.6	3	1.5	8.0	3	1.5	8.0
21	2	1.3	8.0	3	1.2	6.4	3	1.3	7.6	2	1.8	8.0
22	2	1.3	7.6	2	1.5	8.0	2	1.4	6.8	2	1.2	7.2
23	...			2	1.0	7.6	2	1.0	7.6	2	1.2	7.6
24	2	1.0	7.2	2	1.2	7.2	2	0.7	7.2	2	0.8	7.2
25	2	0.9	6.8	2	0.7	6.4	2	0.9	6.4	3	0.9	6.0
26	3	1.2	4.8	2	1.3	4.4	2	0.9	5.6	3	0.9	4.0
27	3	1.0	4.8	2	0.9	5.6	2	0.9	5.6	2	0.9	6.4
28	2	0.8	4.8	2	0.9	5.6	2	0.9	5.6	2	0.7	6.0
29	2	1.1	4.0	...			3	1.9	4.4	...		
30	3	2.0	4.0	2	1.8	4.0	2	1.4	4.0	...		

International Seismological Centre

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Setiembre 1958

Componente N-W

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	2	1.3	7.2	2	1.4	6.8	2	1.6	7.2	2	1.1	7.2
2	2	1.3	7.2	2	1.4	7.6	2	1.4	7.2	3	1.4	7.6
3	1	1.3	7.6	1	1.2	6.8	1	1.1	7.2	2	1.0	6.8
4	...			3	1.1	7.2	2	1.4	6.0	3	1.4	6.4
5	...			2	1.7	4.4	2	1.8	4.4	2	1.6	4.8
6	2	1.5	4.4	2	1.8	4.4	2	1.5	4.4	1	1.7	4.4
7	1	1.9	4.8	1	1.7	4.8	2	2.0	4.4	2	1.7	4.4
8	2	1.7	4.4	2	1.5	4.4	2	1.5	4.4	2	1.3	4.4
9	2	1.3	4.4	2	1.1	5.6	2	1.1	6.0	2	0.9	5.6
10	2	0.9	6.4	2	0.9	6.4	2	0.9	6.4	2	1.0	5.2
11	3	0.8	5.2	2	1.0	4.8	2	1.2	4.8	3	1.2	5.2
12	...			...			...			2	1.0	6.4
13	2	1.0	6.4	3	1.2	6.0	3	1.2	6.8	3	1.5	6.8
14	3	1.5	6.8	3	1.6	7.6	3	1.6	7.2	3	1.4	7.6
15	3	1.5	6.4	2	1.5	6.4	2	1.4	5.6	3	2.0	4.4
16	3	1.7	5.2	3	1.5	6.0	3	1.8	5.2	2	1.6	7.2
17	2	1.9	7.2	2	1.6	7.6	2	2.4	8.4	2	2.4	7.6
18	2	2.3	7.6	2	1.4	7.6	2	1.9	8.0	2	1.7	8.0
19	2	1.6	7.6	2	1.5	8.0	2	1.3	8.0	2	1.4	7.6
20	2	1.3	7.6	2	1.5	8.0	3	1.3	8.0	3	1.6	7.6
21	2	1.3	7.6	3	1.4	7.6	3	1.5	8.0	3	1.9	7.6
22	2	1.9	7.2	2	1.4	6.4	2	1.2	6.8	2	1.0	7.6
23	2	1.1	7.2	2	1.2	6.8	2	1.3	7.6	2	1.1	7.2
24	2	1.0	7.6	2	1.0	7.2	2	0.9	6.8	2	0.9	7.2
25	2	1.0	7.2	2	0.9	7.2	2	0.9	6.4	3	1.2	6.0
26	3	1.1	5.6	2	1.1	5.6	2	1.2	5.2	3	0.9	6.4
27	2	0.8	5.2	3	0.8	6.0	2	0.6	6.0	2	0.8	6.0
28	2	1.0	6.4	2	1.1	6.0	2	0.9	6.0	2	0.9	4.4
29	2	1.0	5.2	2	1.2	4.0	3	2.0	4.0	...		
30	3	1.5	4.4	3	1.6	4.0	3	1.7	4.4	...		

AÑO GEOFISICO INTERNACIONAL

OBSERVATORIO ASTRONOMICO DE LA UNIVERSIDAD NACIONAL

LA PLATA - REPUBLICA ARGENTINA

Deleg. Interventor: Dr. Reynaldo P. Cesco

B O L E T I N S I S M O L O G I C O

Octubre 1958

SANTIAGO DEL ESTERO

ESTACION SISMOLOGICA " TALA POZO "

$\varphi = -27° 49'3 \quad \lambda = -64° 14'7$

Instrumentos: E y N Sprengnether y Wiechert Z 80 Kg

Constantes

E	$l_r = 23.7$	A = 100	$\mu = 0$	$T_s = 14s9$	Tg= 14 9	k= 105
N	$l_r = 25.9$	A = 100	$\mu = 0$	$T_s = 14s7$	Tg= 14s7	k= 99
Z		$\varepsilon = 3.0:1$	$T_0 = 4s5$	V= 78		r= 0.08 cm.

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
150	1	E	SKS?	$09^h53^m50^s$	8^s	1^μ	10.200	USCGS: 57°S 147°E
			SS	10 00 00	18	2		H: 09h 29m 43s
			L	08 25	56	17		
			M	12 28	21	6		
			F	37				
		N	S	09 53 25	8	2		
			SKS	53 55	8	4		
			SS	10 00 05	14	1		
			L	13 35	34	7		
			M	17 07	20	7		
			F	37				
151	2	E	iP	04 34 14	4	i=-	5.450	USCGS: 58°S 9°5W
			PP?	36 00	5			H: 04h 25m 27s
			S	41 05	14			
				43 20	8			
			SS	44 40	13			
			L	46 05	17	4		
			M	48 10	17	10		
			F	05 42				
		N	P	04 34 10	5			
			PP	36 10	5			
				38 35	12			
			S	41 05	7			
			SS	44 40	26			
			L	46 25	32	6		
			M	47 53	19	11		
			F	05 43				

International Seismological Centre

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
152	2	E	L	07 58 20	20	1		
			M	08 00 18	7	2		
			F	01				
		N	L	07 58 35	26	3		
			M	08 00 11	10	2		
			F	02				
153	3	E	L	02 41 35	8	3		USCGS: 24°5S 67° W
			M	42 41	4	4		H: 02h 40m 19s
			F	44				h = 200 km
		N	L	02 41 40	7	2		
			M	43 11	4	4		
			F	44				
154	3	E	P	18 48 00	4		330	
			iPP	48 14	2	i= -		
			iS	48 41	5	i= +		
			M	48 59	4	20		
			M	49 41	3	9		
			F	54				
		N	P	18 48 00	4			
			S	48 35	6			
			M	48 59	5	9		
			M	49 36	3	9		Ver Z al final del mes
			F	53				
155	6	E	L	07 29 05	28	3		
			M	33 28	14	2		
			F	46				
		N	L	07 29 25	27	4		
			M	33 43	16	2		
			F	47				
156	7	E	L	13 36 35	32	10		USCGS: 5°S 151°5E
			M	39 19	20	5		H: 12h 32m 40s
			F	14 05				
		N		13 31 50	19	6		
			L	36 50	32	8		
			M	37 45	32	9		
			F	14 06				
157	9	E	P	04 30 30	4		400	
			L	31 30	4	4		
			M	31 48	5	5		
			F	36				
		N	L	04 31 50	4	5		
			M	32 40	5	5		
			F	35				
158	9	E	PP	11 29 00	9		4.300	USCGS: 55°5S 27°5W
			S	33 25	7			H: 11h 20m 17s
			SS	36 10	13			
			L	38 40	24	5		
			M	41 58	20	20		
			F	12 48				

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
158 Cont.	9	N	P	11 27 35	7			
			PP	29 00	8			
			S	33 25	9			
			SS	36 00	22			
			L	38 25	14	6		
			M	41 26	21	19		
			F	12 40				
159	9	E	P	14 43 20	4			
			L	45 05	5	4	650	
			M	45 21	3	24		
			F	51				
		N	P	14 43 20	8			
			S	44 25	7			
			L	44 55	4	6		
			M	45 17	4	18		
			F	51				
160	11	E	iP	14 38 58	4	i=+6;10		
			S	39 40			460	Períodos y amplitud ilegibles
			F	55				
		N	iP	14 38 58	4	i=-8;13		Ep:24°2S 66°4W h= 250Km
			S	39 40	6	12		USCGS:23°5S 65°W h200Km
			M	40 58	5	27		
			F	54				
		Z	iP	14 38 58	1	i=+2;6		
			S	39 40	3	2		
			M	40 18	1	6		
			F	42				
161	18	E		06 54 05	8			
			M	07 00 55	8	2		
			F	09				
		N		06 54 20	4			USCGS: 7°N 71°5W
			L?	57 25	16	2		H: 06h 34m 17s
			M	59 37	8	2		h = 100 km
			F	07 06				
162	18	E		Sin Registro			500	
		N	P	16 19 35	3			
			iS	20 26	4	i=+		
			L	20 55	5	6		
			M	21 31	3	19		
			F	35				
		Z		Indicios de T≈2s y A≈1 μ				
163	20	E		Sin Registro				
		N	L	02 21 00	40	11		USCGS:9°5S 112°5E
			M	26 02	26	8		H: 01h 12m 30s
			F	46				

International Seismological Centre

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
164	28	E	L?	04 43 55	26	3		USCGS:62°5S 157°W
			M	49 33	12	2		H:04h 14m 55s
			F	05 00				
		N	L	04 46 55	28	2		
			F	05 02				
165	28	E	PSS	11 30 25	16			USCGS:30°5N 85°E
			L	12 03 05	33	4		H:10h 46m 27s
			L_R	10 55	24	7		
			M	13 20	20	5		
			F	51				
		N	L?	12 05 20	28	2		
			M	12 09	16	2		
			M	16 55	20	3		
			F	52				
166	29	E	SKKS?	08 12 05	18	2	14.600	USCGS:51°5N 179°5E
			SKSP	15 20	18	2		H:07h 44m 10s
			PPP	18 40	24	3		
			SS	22 30	16	3		
				25 25	20	1		
			L	38 05	32	6		
			L_R	44 50	30	12		
			M	49 18	22	9		
			F	Superpuesto al siguiente				
		N	SKS	08 09 55	16	1		
			PPS	16 55	18	2		
			SS	22 30	20	3		
				25 05	20	4		
			L	37 55	40	14		
			L_R	45 00	24	4		
			M	48 21	22	4		
			M	58 13	20	5		
			F	Superpuesto al siguiente				
167	29	E	L?	09 38 05	25	4		
			L_R	45 25	20	4		
			M	55 38	19	5		
			F	10 48				
		N		09 37 55	33	9		
			L_R	44 40	20	5		
			M	56 11	18	3		
			F	10 46				
154 cont.	3	Z	P	18 48 00	1			
			M	48 25	1	10		
			M	49 22	2	4		
			F	51				

Prof. Ing. Simón Gershanik
Jefe del Departamento de
Geofísica

NOTA: El epicentro del terremoto Nº 160 ha sido calculado en base a las horas de P de Tala Pozo, La Plata, M'Bour y Pasadena.

International Seismological Centre

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Octubre 1958

Componente E-W

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	2	1.5	4.4	2	1.5	4.4	2	1.5	4.4	2	1.5	4.4
2	2	1.4	4.0	2	1.3	4.4	2	1.3	4.4	2	1.5	4.4
3	2	1.4	4.0	2	1.0	4.0	2	1.1	4.4	2	0.7	4.4
4	2	0.7	4.4	2	1.0	4.0	2	0.8	4.0	2	1.0	4.0
5	2	0.8	4.0	2	1.0	4.0	2	0.8	4.0	2	1.0	4.8
6	2	1.0	4.8	2	1.1	5.2	2	1.0	4.0	3	2.2	4.4
7	3	2.1	4.8	3	2.4	4.4	3	2.2	4.4	3	1.5	6.8
8	3	2.6	7.6	3	2.3	8.0	3	2.0	8.0	3	1.7	7.2
9	3	2.1	7.6	3	2.3	7.6	...			3	2.1	7.6
10	2	2.1	7.6	2	2.1	7.6	2	2.1	8.0	2	2.1	7.6
11	3	1.9	7.6	3	1.7	7.2	3	1.5	7.6	3	1.9	7.2
12	3	1.5	7.6	3	1.3	7.2	3	1.5	7.2	3	1.3	6.8
13	3	1.5	6.4	3	1.6	6.8	3	1.5	7.2	3	1.5	6.4
14	2	1.3	7.2	2	1.1	7.6	3	1.5	7.6	2	1.5	8.0
15	2	1.9	8.0	2	2.1	7.6	2	1.5	7.6	2	1.6	7.6
16	2	1.6	7.6	2	1.6	7.6	2	1.6	7.2	2	1.6	7.6
17	2	1.3	7.6	2	1.5	7.6	2	1.5	7.6	...		
18	3	1.1	7.6	2	1.1	7.6	...			...		
19	...			...			...			...		
20	...			...			...			...		
21	...			...			...			3	0.6	6.0
22	3	0.8	6.0	3	0.9	4.8	3	0.8	4.0	3	0.9	4.8
23	3	0.8	4.0	3	0.9	4.8	3	1.1	4.4	2	1.2	4.0
24	2	1.0	4.0	3	1.0	4.8	3	1.2	4.8	3	1.1	5.6
25	3	1.4	6.4	3	1.2	5.6	3	1.1	5.2	...		
26	...			3	1.0	6.0	3	1.2	6.0	3	1.2	4.0
27	...			3	0.9	7.2	3	1.0	6.4	3	0.9	7.2
28	...			3	0.9	7.6	3	0.9	7.6	3	0.9	6.4
29	3	0.9	6.8	3	0.9	7.6	...			3	0.9	6.8
30	3	0.8	5.6	3	1.0	5.6	3	1.0	6.0	3	1.2	5.6
31	3	1.0	6.0	3	0.9	6.4	2	1.0	6.0	2	1.0	5.2

International Seismological Centre

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Octubre 1958

Componente N-S

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	3	1.3	4.4	2	1.3	4.4	2	1.1	4.4	2	1.4	4.0
2	2	1.1	4.0	2	1.5	4.4	2	1.3	4.4	2	1.5	4.4
3	2	1.3	4.4	2	1.1	4.0	2	1.3	4.4	2	0.8	4.4
4	1	0.8	4.4	2	1.1	4.0	2	0.9	4.0	2	1.1	4.0
5	2	0.9	4.0	2	1.0	5.2	2	1.1	4.4	2	0.8	4.4
6	2	0.8	4.4	2	1.0	4.8	2	2.0	4.0	3	2.3	4.4
7	3	2.3	4.4	3	2.1	4.4	3	1.9	5.2	3	1.8	7.6
8	3	2.8	8.0	3	1.8	7.6	3	1.7	7.6	3	1.8	7.2
9	3	1.7	7.2	3	2.0	7.6	...			3	2.0	7.2
10	3	2.0	7.2	3	2.7	6.0	3	2.5	5.2	3	2.5	5.6
11	3	2.3	4.4	3	1.8	7.2	3	1.8	7.2	3	1.5	7.2
12	3	1.7	6.8	3	1.4	6.4	3	1.5	7.2	3	1.5	6.8
13	3	1.6	6.0	3	1.4	6.0	3	1.2	6.4	3	1.2	7.6
14	2	1.2	6.4	3	1.3	7.2	3	1.5	7.2	2	1.5	6.8
15	3	1.8	7.6	2	2.2	7.6	2	2.0	7.6	2	2.0	7.2
16	2	1.7	8.0	2	1.3	7.6	2	1.7	7.6	2	1.7	7.6
17	2	1.7	7.6	2	1.3	7.2	2	1.5	7.2	3	1.3	7.2
18	3	1.2	7.6	3	1.2	7.2	3	1.0	7.2	3	1.5	8.0
19	3	1.2	7.6	3	1.0	6.8	3	0.9	6.4	3	1.2	6.8
20	3	0.9	6.8	3	1.0	6.4	0.0			3	0.9	6.0
21	...			0.0			0.0			0.0		
22	0.0			0.0			0.0			0.0		
23	0.0			0.0			3	1.1	6.0	3	1.4	4.0
24	3	1.3	4.4	3	1.6	4.0	3	1.1	5.6	3	1.3	5.6
25	3	1.4	4.8	3	1.4	4.8	3	1.4	4.8	...		
26	3	1.0	5.2	3	1.1	5.6	3	1.0	7.2	3	0.9	6.4
27	3	0.9	6.4	3	1.0	7.2	3	1.0	7.2	3	1.0	7.6
28	...			3	0.8	7.2	3	0.9	6.8	3	1.0	6.4
29	3	0.9	6.4	3	0.9	6.4	...			0.0		
30	3	0.8	4.4	0.0			3	1.0	5.2	3	1.0	5.2
31	3	1.0	4.8	3	1.2	4.8	3	0.9	5.6	3	0.9	5.6

AÑO GEOFISICO INTERNACIONAL

OBSERVATORIO ASTRONOMICO DE LA UNIVERSIDAD NACIONAL

LA PLATA - REPUBLICA ARGENTINA

Deleg. Interventor: Dr. Reynaldo P. Cesco

B O L E T I N S I S M O L O G I C O

Noviembre 1958

SANTIAGO DEL ESTERO

ESTACION SISMOLOGICA : TALA POZO

$\varphi = -27° 49'3 \quad \lambda = -64° 14'7$

Instrumentos: E y N Sprengnether y Wiechert Z 80 Kg.

Constantes

E	$l_r = 23.7$	$A = 100$	$\mu = 0$	$T_s = 14s9$	$T_g = 14s9$	$k = 105$
N	$l_r = 25.9$	$A = 100$	$\mu = 0$	$T_s = 14s7$	$T_g = 14s7$	$k = 99$
Z	$\varepsilon = 3.0:1$		$T_o = 4s5$	$V = 78$	$r = 0.08$ cm	

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
168	4	E		Sin registro		μ	5.100 km	USCGS: 50°S 115°W
		N	S	$23^h09^m30^s$	9^s	2		H: 22h 54m 46s
			SS	13 05	12	3		
			L	14 35	10	3		
			M	15 39	10	5		
			F	24 11				
169	6	E	eP	23 17 50	5	8		
			iP	17 56	5	i=+23?		
				Luego ilegible				
			F	04 45			16.200	USCGS:44°5N 148°5E
		N	eP	23 17 50	5	6		H:22h 58m 06s
			iP	17 56	6	i=-14		
				Luego ilegible				
			F	04 45				
170	8	E		17 24 35	7			
				52 25	26			
				56 25	16			
				58 35	24			
			Lλ	18 02 35	32	5		
			M	09 14	24	6		
			F	28				
		N		17 22 25	25			
				24 35	7			
				33 20	24			
				36 55	19			
				43 30	19			
				45 10	30			
				47 20	13			
				56 20	22			
			L	18 02 35	28	9		
			M	12 43	22	6		
			F	28				

International Seismological Centre

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
171	10	E	S	11h28m25s	12s	M	5.200	USCGS: 9°S 110°W
			L	35 35	22	7		H: 11h 13m 05s
			M	37 17	17	8		
			F	12 00				
		N	SSS	11 33 30	19			
			L	36 20	18	4		
			M	37 08	21	5		
			F	12 00				
172	11	E	PPP	22 40 00	4		850	USCGS: 22°S 69°W
			L	42 00	8	9		H: 22h 37m 46s
			M	42 19	5	20		
			F	53				
		N	PPP	22 40 00	4			
			L	42 05	5	5		
			M	42 38	4	21		
			F	53				
173	12	E		06 29 35	7			USCGS: 9°5N 70°W
				32 05	10			H:06h 09m 10s
			L	33 00	11	4		
			M	33 43	11	4		
			F	53				
		N		06 29 35	5			
				30 10	4			
			L	33 35	12	3		
			M	35 46	8	2		
			F	55				
174	12	E	P'	20 43 20	10	3	16.200	USCGS:44°5N 148°5E
			SKKS	53 25	15	5		H: 20h 23m 26s
			SKKS	59 30	16	6		
				21 04 05	9	4		
				19 30	24	15		
			L	24 40	25	8y15		
			M	37 52	22	34		
			M	56 28	20	37		
			F	23 57				
		N	P'	20 43 20	11	2		
			PP?	45 40	17	3		
			SKKS	53 30	11	3		
			SKKKS	21 01 10	15	4		
			SSP	06 20	18	7		
			SSS	11 55	31	19		
				15 25	16	4		
				19 10	22	7		
			L	24 55	34	28		
			LR	34 00	24	12y16		
			M	44 09	20	25		
			M	22 09 07	18	24		
			F	23 59				
175	13	E	L	05 18 25	22	1		
			M	24 23	20	2		
			F	06 07				
		N	L	05 21 30	18	1		
			M	22 53	20	2		
			F	06 07				

International Seismological Centre

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observadiones
176	13	E	S	$09^h27^m00^s$	26^s	μ	4.100	USCGS: 9°5N 70°W
			SS	29 20	13			H: 09h 06m 18s
			L	30 35	11	2		
			M	30 58	12	3		
			F	48				
		N	PS	09 27 10	7			
			PcS	27 25	5			
				28 55	10			
			L	30 30	14	2		
			ScS	31 20	12			
			M	32 27	11	2		
			F	45				
177	14	E		05 16 30	5			USCGS: 36°S 102°W
			L	18 40	26	5		H: 05h 04m 25s
			M	20 22	14	4		
			F	54				
		N		05 16 25	7			
			L	18 35	19	3		
			M	20 03	14	6		
			F	43				
178	14	E	L	15 03 25	20	2		
			M	08 17	17	3		
			F	16 05				
		N	L	15 04 10	20	2		
			M	10 02	24	4		
			F	16 13				
179	16	E	SKS	18 09 25	8	2		USCGS: 16°S 172°W
			L	30 50	26	6		H: 17h 44m 48s
			M	31 44	22	5		
			M	35 49	18	6		
			F	19 21				
		N	L	18 31 10	24	2		
			M	33 07	20	2		
			M	36 49	19	4		
			F	19 02				
180	19	E	iP	01 36 18	1	i=+8;27	100	USCGS: 27°5S 63°5W
			iS	37 12	2	i=-104; > 333		H: 01h 35m 06s
			M	37 49	3	20		h ~ 600 km
			F	02 00				
		N	iP	01 36 18	1	i=+1;19		
			iS	37 12	~2	i=-41		
			M	37 46	4	18		
			F	56				
		Z	iP	01 36 ?	?	i ~-100; ~120		Mecanismo trabado.
181	24	E	S	07 00 05	4		3.300	USCGS: 57°5S 65°5W
			SSS	02 20	10			H: 06h 48m 57s
				03 05	32			
			L	04 35	24	28		
			M	05 33	17	37		
			M	08 11	16	44		
			F	09 19				

International Seismological Centre

Nº	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
181	24	N	P	06 55 05	6			
Cont.			S	07 00 05	6			
				02 40	19			
			L	04 35	24	7		
			M	06 22	18	15		
			M	09 23	15	24		
			F	08 12				
		Z	P	06 55 05	1			
			L_R	07 07 40	16	15		
			M	09 14	13	10		
			F	20				
182	27	E	PPP	15 02 50	7		500	
			SS	03 40	9			
			M	04 04	4	9		
			F	13				
		N	P?	15 02 30	4			
			S	03 25	5			
			M	04 11	4	10		
			F	13				
183	28	E	P	07 28 40	3		400	
			S	29 25	4			
			L	30 00	3	3		
			M	30 25	4	10		
			F	38				
		N	P?	07 28 50	4			
			S	29 25	5			
			L	30 05	5	4		
			M	30 26	4	11		
			F	38				
184	30	E	L	02 49 30	27	2		USCGS: 32°N 137°5 E
			M	57 16	20	4		H: 01h 32m 41s
			F	03 05				
		N	Sin registro					

Prof. Ing. S. Gershanik
Jefe del Departamento
de Geofísica

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Noviembre 1958

Componente E-W

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	2	0.8	5.2	3	0.7	5.2	3	0.7	5.2	3	0.7	4.4
2	...			...			...			...		
3	3	0.6	6.0	3	0.8	4.0	...			...		
4	3	0.8	5.2	3	0.8	5.6	3	1.2	4.0	2	0.8	6.0
5	...			2	2.0	4.0	2	2.0	4.0	2	1.3	5.2
6	...			2	1.5	6.0	2	1.7	5.2	2	1.7	6.0
7	...			2	2.3	6.0	2	2.0	6.0	3	1.5	6.0
8	3	1.5	6.0	3	1.2	6.0	3	1.0	6.4	...		
9	...			...			...			...		
10	...			...			...			2	1.2	4.8
11	3	1.4	4.0	3	2.0	4.0	3	1.7	5.2	3	1.3	5.2
12	0.0			3	1.0	7.2	3	0.9	7.2	3	0.8	6.0
13	...			...			3	0.8	6.0	3	1.0	5.2
14	3	0.8	4.8	3	1.0	4.0	3	0.8	6.0	3	0.8	5.2
15	...			3	0.6	5.6	3	0.8	4.8	2	1.3	4.4
16	2	1.7	5.2	2	2.0	4.0	2	1.8	4.4	2	1.3	5.2
17	2	1.8	4.4	2	1.8	4.4	2	1.7	5.2	2	1.7	5.2
18	2	2.6	4.4	2	1.7	5.2	2	1.7	5.2	2	1.7	5.2
19	3	1.2	5.2	0.0			3	1.8	4.4	3	1.2	6.0
20	3	0.8	5.2	3	1.3	5.2	3	1.4	4.0	3	1.4	4.0
21	3	1.4	4.0	3	1.0	5.2	3	1.6	4.0	...		
22	2	1.5	6.0	2	1.7	5.2	2	1.7	5.2	...		
23	2	1.7	5.2	3	1.5	6.8	3	1.5	6.0	2	0.9	8.0
24	3	0.9	6.0	3	1.5	6.0	3	0.9	6.0	3	0.8	6.0
25	3	1.0	7.2	3	0.9	6.0	3	0.9	6.0	3	1.1	6.0
26	3	0.7	7.2	3	1.0	7.2	3	1.2	6.8	3	1.2	6.0
27	...			...			...			3	1.1	6.0
28	3	0.9	6.0	3	1.0	6.8	2	1.3	7.2	2	1.4	6.0
29	3	1.5	5.2	3	0.9	6.0	3	0.8	5.2	3	1.7	4.8
30	3	1.2	4.0	2	1.5	6.0	3	1.7	5.2	2	1.2	4.0

SANTIAGO DEL ESTERO - REPUBLICAC ARGENTINA

ACTIVIDAD MICROSISMICA

Noviembre 1958

Componente N-S

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	3	1.0	4.8	3	1.1	5.6	3	0.7	5.8	3	0.7	5.6
2	...			...			...			...		
3	3	0.7	6.0	3	1.0	5.2	...			...		
4	3	1.0	4.8	3	1.0	5.2	3	1.1	4.0	3	1.4	4.0
5	3	1.3	4.4	2	2.1	4.4	3	1.5	5.2	3	1.5	5.2
6	3	1.3	5.2	2	1.9	5.2	3	1.8	6.0	3	1.6	5.6
7	...			2	1.8	6.0	2	1.8	6.0	2	1.8	6.0
8	3	1.2	6.4	3	1.4	6.0	3	1.4	6.4	...		
9	...			...			...			...		
10	...			...			...			2	1.3	5.2
11	3	1.0	4.8	3	1.0	5.2	3	0.9	6.8	3	1.1	4.0
12	3	0.8	7.2	3	1.1	6.0	3	0.9	6.0	3	0.9	5.6
13	3	0.7	5.6	3	0.8	4.4	3	0.7	6.0	3	0.8	4.4
14	...			3	1.0	4.8	3	1.1	4.0	3	0.9	4.0
15	...			3	0.8	4.8	3	0.9	4.0	2	1.4	4.0
16	2	1.9	5.2	2	1.8	4.0	3	1.3	5.2	3	1.4	4.0
17	2	1.2	4.8	2	2.3	4.0	3	2.7	5.2	3	1.3	5.2
18	2	2.0	4.8	2	2.0	4.8	3	1.8	6.0	3	0.8	4.4
19	0.0			0.0			0.0			3	1.1	4.0
20	3	0.8	5.2	2	0.8	4.4	3	1.6	4.0	3	1.1	4.0
21	3	0.8	4.4	3	1.1	4.4	3	1.1	4.0	...		
22	2	1.8	4.0	2	2.3	4.0	3	1.5	5.2	...		
23	3	1.4	6.0	3	1.8	6.0	3	1.4	6.0	3	1.7	7.2
24	3	1.7	7.2	3	1.3	7.2	3	1.2	6.0	3	1.7	7.2
25	3	1.2	6.7	3	1.0	7.2	3	1.2	6.0	3	1.7	6.8
26	3	1.0	7.2	3	1.0	6.4	3	1.1	6.0	3	0.8	7.2
27	...			...			...			3	1.3	5.2
28	3	1.0	7.2	3	0.9	6.0	3	1.1	6.0	3	1.4	6.4
29	3	1.0	7.2	3	1.1	5.2	3	1.4	4.0	3	1.6	4.0
30	3	1.0	4.8	3	1.3	4.4	3	1.5	4.4	3	1.1	4.0

AÑO GEOFISICO INTERNACIONAL

OBSERVATORIO ASTRONOMICO DE LA UNIVERSIDAD NACIONAL

LA PLATA - REPUBLICA ARGENTINA

Deleg. Interventor: Dr. Reynaldo P. Cesco

B O L E T I N S I S M O L O G I C O

Diciembre 1958

SANTIAGO DEL ESTERO

ESTACION SISMOLOGICA "Tala Pozo"

$\varphi = -27° 49'3 \quad \lambda = -64° 14'7$

Instrumentos: E y N Sprengnether y Wiechert Z 80 Kg.

Constantes

E	$l_r = 23.7$	A= 100	$\mu = 0$	T_s= 14s9	T_g= 14s9	k= 105
N	$l_r = 25.9$	A= 100	$\mu = 0$	T_s= 14s7	T_g= 14s7	k= 99
Z	$\varepsilon = 3.0:1$		T_0 4s5	V= 78	r= 0.08 cm	

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
						μ	km	
185	5	E	L	$03^h26^m40^s$	16^s	1		
			M	34 39	24	4		
			F	Superpuesto al siguiente				
		N		03 26 30	18			
			L?	30 35	32	6		
			M	35 02	28	17		
			F	Superpuesto al siguiente				
186	5	E		04 18 50	14			
			L	26 25	32	3		
			M	28 53	21	4		
			F	58				
		N		04 19 05	16			
			L?	25 40	19	3		
			M	31 56	16	3		
			F	46				
187	9	E	P	19 21 10	7		700	
			PP	21 35	7			
			S	22 25	5			
			L	22 55	8	3		
			M	23 49	12	5		
			M	24 29	10	6		
			F	37				
		N	P	19 21 10	6			
				21 30	5			
			S	22 25	5			
			L	22 55	7	4		
			M	24 07	6	5		
			F	36				

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
188	10	E	P	07h 15m 50s	7s	1μ	10.600 km	USCGS: 37°S 176°5E
			PP	19 40	9	1		H: 07h 02m 59s
			i	25 21	7	i=+6;4		h = 300 km
			iSKS	25 53	8	i=-10;12		
			PKKP	32 30	19	6		
			SS	33 10	18	5		
			SSS	36 35	24	8		
			L	41 25	24	8		
			M	51 17	13	3		
			F	09 05				
		N	iP	07 15 52	5	i=-3;2		
			i	25 21	7	i=+6;3		
			iSKS	25 53	8	i=-10;12		
			SKKS	26 30	11	8		
			i	27 34	8	i=-7;5		
			i	27 52	8	i=-16;11		
			i	28 38	7y21	i=+10;17		
			PKKP?	32 25	12	6		
			SS	33 00	24	11		
			L	41 35	24	8		
			M	45 59	13	3		
			M	50 58	18	4		
			F	09 03				
189	14	E	P	07 18 55	5	2	4.300	USCGS: 35°S 108°5W
			PP	19 40	4	2		H: 07h 11m 28s
			PPP	20 20	6	4		
			S	24 40	8	4		
			L	27 35	14	7		
			M	30 39	22	29		
			F	09 38				
		N	P	07 18 55	5	1		
			PPP	20 25	6	1		
			S	24 40	11	4		
			L	27 35	11	5		
			M	28 43	16	14		
			F	09 37				
190	16	E	L?	19 09 55	5	4		
			M	10 38	6	4		
			F	11				
		N	L?	19 09 55	4	4		
			M	10 13	6	5		
			F	11				
191	17	E	L	09 32 30	5	2		
			M	32 41	4	4		
			F	35				
		N	L	09 32 35	4	3		
			M	32 41	4	3		
			F	35				
192	17	E	L	11 27 00	4	2		
			M	27 29	4	2		
			F	30				
		N	L	11 27 05	4	2		
			M	27 07	4	3		
			F	30				

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Nº	Día	Comp.	Fase	Hora	T.	A	Δ	Observaciones
193	18	E	L	$20^h 12^m 40^s$	20^s	2		
			M	13 24	17	2		
			F	26				
		N	Sin registro					
194	19	E	P	00 02 00	2			
			S	02 55	4			
			L	03 25	12	2		
			M	03 41	10	3		
			F	05				
		N	P	00 02 00	2			
			?	02 35	4			
			L	03 25	11	1		
			M	03 32	12	2		
			F	05				
195	19	E	L	10 03 40	20	1		
			M	05 01	14	3		
			F	26				
		N	L	10 03 40	24	5		
			M	04 50	15	5		
			F	22				
196	19	E	P	11 17 55	3		1.500	USCGS: 16°S 72°W
			S	20 35	10			H: 11h 14m 40s
			L	22 00	18	5		h ~ 100 km
			M	23 39	8	7		
			F	12 32				
		N	iP	11 17 56	4	i=-		
			iSS	20 50	3			
			L	22 00	15	6		
			M	22 32	7	6		
			F	12 32				
197	21	E	L	07 01 30	29	2		
			M	09 16	19	3		
			F	08 05				
		N	L	07 01 40	36	3		
			M	13 13	19	3		
			F	59				
198	23	E	SS	06 40 25	7		3.600	USCGS: 2°N 79°W
			L?	46 20	23	5		H: 06h 27m 15s
			M	48 44	17	6		
			F	07 20				
		N	S	06 39 25	8			
			L?	46 10	27	6		
			M	50 25	16	6		
			F	07 17				
199	25	E	iPKS	08 28 19	6	i=-3;4	15.000	USCGS:5°5S 151°E
				09 03 20	11	2		H:08h 05m 38s
			L_R	10 50	24	3		h ~ 60 km
			M^R	15 17	18	3		Tracción
			F	10 37				
		N	iPKS	08 28 19	5	i=-3;4		
			SKKS	41 55	9	1		
				04 10	7	1		
			L_R	12 50	24	2		
			M^R	15 01	20	3		
			F	10 25				

Diciembre de 1958 Continuacion (4)

N°	Día	Comp.	Fase	Hora	T	A	Δ	Observaciones
200	28	E	P	05h 33m 40s	6s	μ 4	1.600 km	
			S?	36 20	12	2		
			L	37 30	2	4		
			M	37 47	11	3		
			F	48				
		N	P	05 33 40	4	1		
			PPP	34 10	4	2		
			L	37 30	6	2		
			M	37 50	10	3		
			F	52				
201	30	E	P?	08 45 10	3	2	4.000	USCGS: 35°5S 105°5W
			S	50 55	12	3		H: 08h 37m 56s
			L	53 30	10	3		
			M	56 13	9	8		
			F	09 35				
		N	P?	08 45 20	4	1		
			PP	46 25	4	1		
			S	50 55	11	3		
			L	53 35	9	4		
			M	57 49	8	11		
			F	09 36				
		Z	P	08 45 10	1	1		
			F	09 04				

Prof. Ing. S. Gershanik
Jefe del Departamento
de Geofísica

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Diciembre 1958

Componente E-W

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	2	1.4	4.0	2	2.0	4.0	...			3	1.4	5.6
2	3	1.2	4.0	3	1.0	4.0	3	1.2	4.0	2	1.4	4.0
3	2	1.2	4.8	2	1.7	4.8	2	2.0	4.0	2	1.2	5.2
4	3	1.0	5.2	3	1.2	5.2	2	1.0	4.0	3	1.0	4.0
5	3	0.9	4.4	...			3	1.2	4.0	3	1.2	4.0
6	...			3	0.8	4.0	3	0.8	6.0	3	1.0	4.0
7	...			3	1.4	4.0	3	1.4	4.0	3	1.1	4.4
8	3	1.0	4.0	3	1.0	4.0	3	1.0	4.0	3	1.0	4.0
9	3	0.8	6.0	3	1.1	4.4	2	0.7	6.4	2	0.9	6.4
10	3	0.7	6.8	3	1.1	6.0	3	0.8	6.0	3	1.0	4.0
11	3	0.8	4.8	3	0.9	4.4	3	1.0	4.0	3	1.0	4.0
12	3	1.0	5.2	3	1.0	4.0	3	0.8	5.2	...		
13	...			...			...			...		
14	...			3	1.0	5.2	2	1.2	4.0	2	1.0	4.0
15	3	1.0	4.0	2	1.4	4.0	...			...		
16	...			...			2	1.4	4.8	2	1.1	4.4
17	2	1.2	4.0	2	1.4	4.0	3	1.0	4.0	3	1.4	4.0
18	3	1.2	4.0	2	1.2	4.0	...			2	0.7	5.2
19	3	1.0	4.0	3	1.2	4.0	3	0.8	6.0	3	1.1	4.4
20	3	1.1	4.4	3	1.3	4.4	3	1.0	4.0	3	1.1	4.4
21	3	1.0	4.0	3	1.2	4.0	...			3	0.9	4.4
22	3	0.8	4.0	3	0.6	6.4	3	0.7	6.4	...		
23	...			3	0.9	6.0	3	0.9	6.4	3	1.0	7.2
24	...			3	1.2	6.4	3	0.7	7.2	3	1.3	7.2
25	3	0.7	7.2	3	1.0	7.2	3	0.6	8.0	3	0.6	8.0
26	3	0.9	7.2	3	0.6	8.0	3	0.6	8.0	3	0.6	8.0
27	3	0.6	8.0	3	0.6	8.0	3	0.8	8.0	3	0.8	8.4
28	3	0.7	7.2	3	0.6	8.0	3	0.6	8.0	3	1.0	8.0
29	...			3	1.2	4.0	3	0.7	7.2	3	1.0	4.0
30	3	1.0	4.0	3	1.2	4.0	...			...		
31	3	0.7	7.2	3	0.9	6.4	3	0.5	8.0	3	0.7	7.2

SANTIAGO DEL ESTERO - REPUBLICA ARGENTINA

ACTIVIDAD MICROSISMICA

Diciembre 1958

Componente N-S

Hora	0h			6h			12h			18h		
Fecha	K	A	T	K	A	T	K	A	T	K	A	T
1	3	1.0	4.8	2	1.9	5.2	...			3	1.8	4.0
2	3	1.0	5.2	3	1.4	4.0	3	1.1	4.4	2	1.4	4.8
3	2	1.5	5.2	3	1.6	4.0	3	1.3	5.2	3	2.3	4.0
4	3	1.1	5.2	3	1.3	4.4	3	1.1	6.0	3	1.1	4.0
5	3	0.9	4.0	...			3	1.1	4.0	3	1.1	4.0
6	...			3	1.1	4.0	3	1.1	4.0	3	1.1	4.0
7	3	1.2	4.8	3	1.6	4.0	3	1.3	4.4	3	1.4	4.0
8	3	1.1	4.0	3	1.1	4.0	3	1.1	4.4	3	1.1	4.4
9	3	1.0	5.2	3	1.1	4.0	3	0.9	6.8	3	1.0	4.8
10	...			3	1.0	5.2	3	1.1	4.4	3	0.9	4.0
11	...			3	0.8	5.2	3	0.9	4.0	3	1.1	4.4
12	...			3	1.3	5.6	3	0.8	5.2	3	1.1	6.0
13	3	0.9	4.0	3	1.1	4.4	3	0.9	4.0	3	1.0	5.2
14	3	0.8	5.2	3	1.0	5.2	2	1.1	4.0	2	1.4	4.0
15	3	1.1	4.0	3	1.4	4.0	2	1.1	4.0	2	1.6	4.0
16	...			2	1.4	4.0	3	1.9	4.4	3	1.1	4.0
17	3	1.1	4.0	3	1.1	4.0	3	1.4	4.0	3	1.6	4.0
18	3	1.4	4.0	3	1.9	5.2	...			3	1.1	5.2
19	3	1.1	4.0	3	1.1	4.0	3	1.4	4.0	3	1.4	4.0
20	3	1.1	4.0	3	1.4	4.0	3	1.4	4.0	3	1.1	6.0
21	3	1.1	4.4	3	1.1	4.4	...			3	0.8	5.2
22	...			3	1.0	5.2	3	0.9	6.0	...		
23				3	1.0	6.4	3	1.3	5.2	3	1.0	6.8
24	3	0.8	7.2	3	1.2	7.2	3	0.8	8.0	3	0.8	7.2
25	3	1.0	5.2	3	0.9	6.8	3	0.8	7.6	3	0.8	8.0
26	3	0.8	8.0	3	0.8	7.2	3	0.8	8.0	3	0.8	8.0
27	3	0.8	8.0	3	0.7	8.0	3	0.7	6.8	3	0.8	8.0
28	3	0.7	8.0	3	0.8	7.2	3	0.8	8.8	3	1.7	9.2
29	3	0.8	8.8	3	1.2	6.0	3	1.2	4.8	3	1.1	4.0
30	3	0.9	6.0	3	1.1	4.0	3	1.1	4.0	3	1.1	4.0
31	3	0.8	7.2	3	0.7	6.8	3	0.8	7.2	3	0.9	6.0