

LECTURAS EN LA ESTACION SISMOGRAFICA DE AREQUIPA

(ARE, VELA)

Coordenadas de la estación : Latitud : 16°27'43.5" Sur
 Longitud : 71°29'28.6" Oeste
 Altitud : 2,451.6 mts.
 Instrumentos : Benioff, Período Corto (Z,N,E).- Amplificación: 50,000
 Sprengnether, P. Largo (Z',N'E').- Amplificación: 1,500

ABRIL, 1966

1	iP	C 01 23	11.0 (Z)		3	iP	D 03 38	29.5 (Z)	
	iS		30.0 (Z)			iS		42.0 (E)	
	iP	C 03 08	14.4 (Z)			eiP	05 03	12.3 (Z)	
	iP	C 03 44	02.0 (Z)	T:01.2 A:06.0		i	04	20.7 (Z)	
	eS	52 43	0 (N'E')			iP	C 09 20	09.5 (Z)	
	eL	59 50	0 (N'E')			e	22	18.0 (N')	
	eL	04 03	31.0 (E')	T:21.0 A:09.0		e		22.8 (Z)	
	iP	C 05 43	41.5 (Z)			iP	C 10 25	03.3 (Z)	
	eiP	06 44	02.6 (Z)			iS		08.0 (ZNE)	
	i		54.7 (Z)			iP	C 14 23	50.7 (Z)	
	iS		59.0 (ZNE)			iS	24	19.5 (NE)	
	iP	D 07 08	52.5 (Z)			e(P)	14 27	33.0 (Z)	
	iS	09 02	03 (ZNE)			eiP	D 14 30	08.5 (Z)	
	iP	C 07 56	11.6 (Z)			iS		30.8 (E)	
	iS		28.6 (Z'N'E')		4	eP	07 03	12.4 (Z)	
	iP	C 08 12	22.3 (Z)			e(L)	08 07	40.0 (Z')	
	iS		55.2 (E)			eL	15	30.0 (Z')	
	eP	09 12	11.2 (Z)			iP	C 07 38	51.2 (Z)	
	iS		23.5 (ZE)			iS	39	31.2 (Z)	
	iP	D 15 25	05.1 (Z)			iP	C 16 24	25.6 (Z)	
	iP	D 16 17	58.7 (Z)			iS	25	01.7 (ZN)	
	i(S)	18	27.4 (N)			iP	C 16 43	06.0 (Z)	
2	eP	01 29	26.0 (Z)			iS		21.5 (ZN)	
	eS	30	25.0 (ZNE)		5	iP	C 00 41	50.8 (Z)	
	eiP	02 00	23.5 (Z)			i(S)	42	32.0 (ZNE)	
	i		36.5 (Z)			i(S)		44.5 (ZN)	
	e	06 47	0 (N'E')			eiP	01 37	56.0 (Z)	
	e	10 08	0 (N'E')			eS	38	51.2 (ZNE)	
	eiP	02 25	23.3 (Z)			iP	D 02 43	00.7 (Z)	
	eiP	03 47	24.2 (Z)			iS		15.0 (ZNE)	
	S	48	01.7 (ZNE)			eP	07 53	28.0 (Z)	
	(S)		08.7 (ZE)			i		59.0 (Z)	
	eP	08 54	05.5 (Z)			iP	C 08 07	17.6 (Z)	
	i	55	07.0 (ZE)			iS		47.0 (ZNE)	
	iP	C 14 55	00.8 (Z)			iP	D 09 11	01.9 (Z)	T:01.2 A:03.5
	iS		22.6 (ZNE)			iP	C 09 49	12.1 (Z)	
	iP	C 16 38	17.6 (Z)			iS		27.3 (ZNE)	
	iS		33.0 (ZNE)			e(P)	10 13	43.0 (Z)	
	iP	D 20 22	51.9 (Z)			eP	16 10	54.0 (Z)	
	iS	23	34.6 (ZNE)			eS	11	47.5 (ZN)	

5 iP C 16 33 56.3 (Z)
 iS 34 12.3 (ZNE)
 iP 19 19 12.0 (Z)
 6 eP 02 11 23.2 (Z)
 i 12 22.2 (Z)
 e(L) 03 48 09.0 (E')
 e(L) 56 40.0 (Z'N')
 iP C 03 52 02.9 (Z)
 iS 53 31.2 (N'E')
 eiP D 05 56 31.5 (Z)
 iP D 07 45 30.8 (Z)
 i 33.8 (Z)
 eP 08 17 35.8 (Z)
 e(P) 12 28 37.7 (Z)
 iP C 14 06 01.9 (Z)
 iS 07 15.5 (E)
 i(S) 20.4 (NN'EE')
 eP 18 11 32.8 (Z)
 iP C 20 34 45.5 (Z)
 iS 35 00.8 (Z)
 7 iP D 00 34 44.0 (Z) T:00.9 A:02.0
 eiP 00 48 36.6 (Z)
 eS 49 04.9 (NE)
 iP C 01 35 54.0 (Z)
 iS 36 04.0 (N'E')
 iP C 04 13 52.0 (Z)
 eP 09 07 24.2 (Z)
 iP D 10 02 30.3 (Z)
 eP 10 29 24.0 (Z)
 iS 54.0 (ZNE)
 iP C 13 18 58.7 (Z)
 i(S) 20 14.8 (Z)
 iS 24.5 (ZNE)
 iP D 16 05 38.2 (Z)
 iS 42.6 (ZE)
 eP 21 57 49.0 (Z)
 iS 58 16.0 (ZNE)
 8 iP D 02 05 48.3 (Z) T:01.4 A:02.0
 e 07 47.5 (Z)
 e 08 03.0 (Z')
 e 19 08.0 (Z')
 e 22 05.0 (N')
 e(L) 25 13.0 (Z'N'E')
 eL 40 11.0 (N')
 eL 51 26.0 (E')
 iP D 02 37 00.3 (Z)
 iS 27.0 (ZN')

8 iP C 02 43 48.0 (Z)
 iS 44 13.2 (ZE)
 eiP 02 49 45.8 (Z)
 iS 51 21.2 (ZNE)
 eP 04 25 03.4 (Z)
 iP C 04 43 34.0 (Z)
 iS 49.6 (ZNE)
 eP 06 04 28.0 (Z)
 eP 07 55 51.0 (Z)
 eiP 13 28 07.0 (Z)
 iS 36.8 (ZNE)
 eP 14 15 35.0 (Z)
 e 21 49.0 (Z'E')
 e 26 53.0 (Z'N'E')
 iP C 15 04 12.8 (Z)
 iS 05 35.0 (ZNE)
 iP D 16 37 46.8 (Z)
 eS 38 02.2 (Z)
 9 e(P) 02 40 19.5 (Z)
 eP 02 48 06.0 (ZZ')
 i 42.5 (Z)
 e 51 49.0 (Z')
 e 55 25.0 (N')
 i 58 26.0 (Z')
 i 03 00 27.0 (Z'N') T:08.0 A:23.0
 eP 03 12 20.0 (Z)
 iS 42.0 (NE)
 iP C 04 13 06.8 (Z)
 iS 11.9 (E)
 eP 04 37 26.5 (Z)
 i(S) 38 06.3 (N)
 eP 07 22 07.2 (Z)
 iS 22.4 (E)
 eP 07 33 48.5 (Z)
 iS 34 02.0 (ZNE)
 e(P) 08 09 11.0 (Z)
 i 49.5 (Z)
 iP D 10 47 12.5 (Z)
 iS 25.8 (ZNE)
 iP D 18 15 23.3 (Z)
 iS 32.2 (ZNE)
 iP D 19 28 07.9 (Z)
 iS 23.4 (NE)
 e(P) 20 21 22.5 (Z)
 10 eP 02 26 13.6 (Z)
 iS 27 04.3 (E)
 iP C 04 08 41.0 (Z)
 iS 58.7 (ZE)

10 iP D 05 57 17.5 (Z)
 i 25.6 (Z)
 iS 58 24.7 (EE')
 e(P) 06 38 39.6 (Z)
 iP 42.5 (Z)
 iS 58.3 (ZE)
 eP 07 09 27.0 (Z)
 i 50.1 (Z)
 eiP 10 38 27.7 (Z)
 e 42 24.0 (Z)
 iP C 16 39 44.6 (Z)
 i 40 15.1 (Z)
 iS 42 27.7 (EE')
 iS 43 30.5 (ZE)
 eiP 17 19 21.4 (Z)
 iS 36.3 (ZW)
 iP C 21 31 46.5 (Z)
 iS 32 03.3 (ZNE)
 e(P) 22 38 50.0 (Z)
 eP 23 26 20.0 (Z)
 iS 27 15.5 (E)
 11 iP D 02 24 24.4 (Z)
 iS 38.5 (ZNE)
 eP 02 27 35.0 (Z)
 eS 28 40.8 (ZNE)
 eiP 06 47 15.0 (Z)
 i 19.0 (Z)
 i(S) 49.8 (E)
 iS 48 05.0 (ZEE')
 iP D 07 15 04.5 (Z)
 iS 19.4 (ZNE)
 eP 07 30 43.0 (Z)
 iS 32 01.0 (ZE)
 e(P) 07 37 03.8 (Z)
 e 38 14.5 (Z)
 eiP 10 30 50.0 (Z)
 iS 31 56.8 (ZNE)
 iP C 12 41 17.0 (Z)
 eS 46.0 (Z)
 iP D 13 58 49.7 (Z)
 iS 55.8 (ZNE)
 iP D 16 06 17.0 (Z)
 eS 07 40.5 (ZNE)
 iP C 16 56 28.5 (Z)
 iS 44.2 (ZE)
 iP D 17 25 52.8 (Z)
 e 36 22.0 (N'E')
 e 41 24.0 (Z')
 e 44 47.0 (Z'N'E')

11 iP D 19 38 59.0 (Z)
 iS 40 19.7 (ZNE)
 eiP 22 34 27.0 (Z)
 iS 45.2 (ZNE)
 12 iP C 01 31 43.0 (Z)
 iS 32 09.8 (ZNE'N'E')
 iP D 02 40 12.2 (Z)
 eS 29.2 (ZNE)
 iP C 02 43 02.2 (Z)
 i 20.5 (Z)
 iP C 06 39 15.4 (Z)
 eS 38.8 (NE)
 eiP 07 47 21.8 (Z) T:01.0 A:00.8
 i 48 04.0 (Z) T:01.0 A:01.0
 iP C 09 44 17.2 (Z)
 eiP 16 33 31.3 (Z)
 eS 59.0 (ZNE)
 iP D 17 57 31.0 (Z)
 iS 36.0 (ZNE)
 eP 20 10 20.8 (Z)
 iS 53.0 (ZNE)
 eiP 20 15 36.9 (Z)
 eS 17 05.5 (ZNE)
 iP C 20 52 53.2 (Z)
 eS 53 24.0 (ZE)
 iP D 22 02 35.9 (Z)
 i 03 45.5 (Z)
 iS 04 01.8 (NE)
 iP C 23 42 30.6 (ZZ')
 i 34.6 (Z)
 iS 46 33.2 (NEZ'N'E')
 e 50 02.0 (Z'N')
 e 53 34.0 (Z') T:18.0 A:76.0
 13 iP C 03 40 07.0 (Z)
 iS 44 05.0 (Z'N'E')
 i 50 51.0 (E')
 iP C 04 27 20.1 (Z)
 iS 39.6 (N)
 eP 05 44 18.4 (Z)
 eiP C 09 15 48.8 (Z)
 eP 12 02 41.7 (Z)
 iS 04 05.4 (ZNE)
 iP D 12 25 14.7 (Z)
 iS 34.6 (ZN)
 iP C 18 07 50.2 (Z)
 iS 08 14.9 (ZE)
 iP C 22 02 02.7 (Z)
 iS 30.3 (ZNE)

13 eP 22 29 09.7 (Z)
 iS 30 20.7 (Z)
 eP 23 13 44.7 (Z)
 iS 14 45.1 (ZNE)

14 eP 06 21 50.0 (Z)
 i 22 21.5 (Z)
 i 23 45.5 (Z)
 e 24 54.0 (E')

iP D 07 12 56.0 (Z)

eiP C 14 24 47.1 (Z)

iP C 16 34 07.0 (Z)

iS 22.2 (ZN)

iP C 23 10 55.0 (Z)

iS 11 18.8 (ZNE)

15 eP 00 52 27.1 (Z)

iS 53 10.1 (NE)

iP C 02 38 50.0 (Z)

iP D 02 43 24.7 (Z)

iS 44 48.5 (E)

eP 04 44 28.5 (Z)

iS 58.4 (N)

iP C 06 48 12.5 (ZZ') T:01.2 A:10.5

i 23.4 (Z) T:01.1 A:17.5

eS 52 47.5 (N'E') T:12.0 A:05.0

e 54 33.0 (N')

e 59 11.0 (Z')

eP 06 52 17.7 (Z)

iS 50.0 (ZN)

eP 07 13 02.0 (Z)

iS 46.4 (E)

i(S) 56.8 (E)

iP C 07 55 34.6 (Z)

iS 48.2 (ZNE)

eP 08 34 32.5 (Z)

i 49.6 (Z)

iS 35 51.3 (NE)

iP 16 55 28.3 (Z)

iS 41.1 (N)

eP 22 04 56.1 (Z)

iS 05 21.3 (NE)

16 eP 00 08 02.7 (Z)

eiP 01 41 06.9 (Z)

e 45 11.0 (Z')

iS 51 33.0 (N'E')

e 53 57.0 (Z')

e 59 13.0 (N'E')

e 02 11 52.0 (Z')

iP C 02 12 32.8 (Z)

iS 13 39.4 (ZNE)

16 eiP 03 56 09.7 (Z)
 iS 24.0 (ZNE)

iP D 04 36 07.7 (Z)
 iS 12.1 (ZNE)

eP 05 00 14.9 (Z)
 iS 01 22.1 (ZNE)

e(P) 07 19 36.8 (Z)

eP 08 11 33.3 (Z)

eP 11 38 51.8 (Z)

iP D 16 04 33.0 (Z)

iS 52.5 (ZE)

i(P) 19 14 06.5 (Z)

iS 50.0 (ZNE)

iP D 23 10 33.0 (Z)

17 iP C 00 39 55.8 (Z)

iS 40 51.3 (ZNE)

iP D 00 50 49.2 (Z)

iS 51 44.9 (ZNE)

eP 02 36 17.4 (Z)

e 37 10.0 (Z)

eP 07 46 13.0 (Z)

e 26.5 (Z)

i 47 10.0 (Z)

iP C 10 06 13.2 (Z)

i 07 20.0 (Z)

iP D 17 48 43.2 (Z)

eP 18 52 36.0 (Z)

iS 53 07.6 (NE)

eiP 19 03 12.8 (Z)

e(S) 04 44.0 (ZN)

eS 47.0 (ZNE)

eP 23 18 13.0 (Z)

18 iP D 00 09 25.8 (Z)

eS 10 19.5 (ZNE)

iP 00 34 27.0 (Z)

eiP 00 37 39.6 (Z)

iP D 00 42 09.9 (Z)

iS 31.0 (ZNE)

e(P) 03 02 20.7 (Z)

eP 03 04 10.5 (Z)

iP D 03 34 35.6 (Z)

iS 39.9 (ZNE)

iP C 03 38 39.7 (Z)

eS 39 31.0 (ZNE)

iP C 07 52 13.8 (Z)

iS 31.2 (ZE)

18 iP D 08 01 14.1 (Z)
 iS 29.7 (ZNE)
 iP C 10 32 27.0 (Z)
 eS 56.0 (ZNE)
 iP D 12 06 55.2 (Z)
 eS 07 18.4 (ZE)
 iP C 16 40 49.4 (Z)
 iS 41 05.0 (Z)
 iP C 19 41 18.9 (Z)
 iS 45.6 (Z)
 iP D 22 12 52.4 (Z)
 iS 13 09.6 (ZE)
 iP D 22 18 52.0 (Z)
 iS 19 14.2 (ZNE)
 19 eP 00 33 07.0 (Z)
 i(S) 34 13.6 (ZNE)
 iS 17.4 (ZNE)
 iP C 01 07 21.2 (Z)
 iS 36.1 (ZNE)
 eP 01 24 45.9 (Z)
 iS 25 19.0 (ZNE)
 eP 01 59 36.0 (Z)
 iP D 02 34 08.9 (Z)
 iS 35 21.7 (ZNE)
 eiP 06 59 48.0 (Z)
 iS 07 00 53.3 (ZNE)
 eP 08 17 45.9 (Z)
 i 18 21.9 (Z)
 eP 09 46 21.4 (Z)
 eS 47 01.0 (ZNE)
 iP C 09 53 34.2 (Z)
 i(S) 54 44.0 (NE)
 iS 55 13.9 (ZNE)
 iP D 13 07 15.2 (Z)
 eiP 19 48 16.2 (Z)
 20 iP C 00 29 41.9 (Z)
 iS 54.1 (ZNE)
 iP C 00 43 43.3 (Z)
 iS 57.1 (ZNE)
 eP 02 12 31.0 (Z)
 e 53.0 (Z)
 eiP 02 52 30.5 (Z)
 e(L) 03 39 25.0 (Z')
 eiP 03 29 17.5 (Z)
 eS 49.4 (NE)
 eP 03 50 12.5 (Z)

T:01.0 A:00.7

20 iP C 05 01 45.6 (Z)
 eS 02 03.0 (ZNE)
 eP 05 53 36.9 (Z)
 eiP 06 20 16.2 (Z)
 e 21 08.5 (Z)
 e(L) 07 09 51.0 (Z')
 e(P) 07 02 34.7 (Z)
 e(P) 07 32 48.0 (Z)
 iP D 07 57 46.0 (Z)
 eS 58 35.6 (ZN)
 iP D 08 05 13.0 (Z)
 i(S) 30.0 (ZNE)
 iS 32.0 (ZNE)
 iP D 09 48 31.0 (Z)
 iS 49 27.0 (ZNE)
 eP 13 15 20.0 (Z)
 e(S) 49.5 (ZNE)
 eiP 16 45 58.0 (Z)
 e(L) 17 32 12.0 (Z'N')
 e(P) 17 00 59.0 (Z)
 21 eiP 00 41 55.5 (Z)
 eS 42 28.4 (ZN)
 eP 03 26 33.3 (Z)
 iS 39.7 (ZNE)
 eiP 04 30 11.0 (Z)
 i(S) 49.6 (Z)
 iS 51.0 (NE)
 eP 05 21 54.0 (Z)
 eS 23 21.0 (NE)
 iP C 06 16 08.0 (Z)
 iS 21.3 (ZNE)
 eP 07 10 17.3 (Z)
 eS 55.4 (ZNE)
 i(P) 07 21 22.3 (ZNE)
 iP C 10 53 33.1 (Z)
 iS 54.4 (ZNE)
 eiP 14 36 31.9 (Z)
 eS 37 33.0 (ZNE)
 eP 16 05 06.0 (ZZ')
 i(P) C 16 31 59.7 (Z)
 22 eP 01 59 00.7 (Z)
 iS 41.0 (ZN)
 eP 03 04 31.1 (Z)
 iS 58.4 (Z)
 iP C 03 11 21.3 (ZNE')
 iS 15 19.0 (Z'E')
 i 22 02.0 (Z'N')

T:01.0 A:29.0
 T:16.0 A:53.5
 T:16.0 A:24.0

22 eP 03 29 58.7 (Z)
 eS 30 38.3 (ZN)
 iP C 08 20 26.6 (Z)
 iS 56.3 (N)
 eiP 08 26 13.8 (Z)
 iS 27 27.8 (NE)
 eP 08 38 30.0 (Z)
 eS 49.0 (ZN)
 iP D 10 56 33.2 (Z)
 iS 53.7 (Z)
 iP C 12 27 06.6 (Z)
 23 iP D 00 29 34.3 (ZZ')
 i 30 11.3 (Z)
 e 33 48.8 (ZZ')
 e 47 15.0 (Z')
 e 53 49.0 (N')
 e 01 00 50.0 (N')
 e 03 44.0 (Z')
 eL 13 55.0 (E')
 eP 01 48 11.6 (Z)
 iS 49 41.5 (ZNE)
 eiP 04 20 44.0 (Z)
 iS 21 48.6 (ZNE)
 eP 07 03 22.4 (Z)
 e(L) 33 53.0 (Z')
 eiP C 09 16 39.5 (ZZ')
 e 25 55.0 (Z')
 e 40 38.0 (N'E')
 eP 10 12 33.3 (Z)
 eS 13 26.5 (ZNE)
 iP D 19 09 05.7 (Z)
 i(S) 15.1 (ZNE)
 iP D 20 56 12.2 (Z)
 iS 39.1 (ZNE)
 eP 21 43 49.9 (Z)
 iS 44 56.0 (ZNE)
 iP C 23 16 32.9 (Z)
 eS 17 31.5 (ZNE)
 24 eP 02 56 58.8 (Z)
 eS 57 47.7 (ZNE)
 iP D 03 26 53.4 (Z)
 iS 58.8 (ZNE)
 eP 03 52 31.0 (Z)
 iS 53 05.8 (ZNE)
 eP 04 21 57.2 (Z)
 eS 22 47.0 (ZNE)
 iP D 07 56 30.3 (Z)
 iS 57 55.6 (ZNE)

24 eP 11 33 19.5 (Z)
 iS 34 44.4 (ZNE)
 iP C 12 48 01.6 (Z)
 iS 19.6 (ZNE)
 eP 17 07 00.3 (Z)
 eS 08 04.6 (ZN)
 iP C 18 52 52.9 (Z)
 iS 59.3 (ZNE)
 eP 20 32 41.4 (Z)
 eP 21 03 15.5 (Z)
 eP 23 22 54.7 (Z)
 25 eiP 01 27 52.0 (Z)
 eS 28 10.5 (ZNE)
 eiP 02 11 41.2 (Z)
 i 12 19.0 (Z)
 iS 47.2 (ZNE)
 eiP D 02 20 46.5 (Z) T:01.0 A:01.0
 eP 03 28 46.3 (Z)
 eS 29 47.8 (ZNE)
 eiP 04 38 01.4 (Z)
 iP D 06 48 45.8 (Z)
 eP 07 03 22.1 (Z)
 eS 04 25.5 (E)
 eP 07 06 37.2 (Z)
 e(P) 07 09 06.2 (Z)
 eP 09 32 06.6 (Z) T:01.1 A:01.0
 iP 11 50 29.5 (Z)
 iS 46.8 (ZNE N'E')
 eP 12 02 42.2 (Z)
 iS 59.4 (ZE)
 iP C 12 05 13.2 (Z)
 iS 30.0 (ZE)
 eiP 13 08 12.0 (Z)
 iS 43.4 (ZNE)
 iP C 16 36 49.1 (Z)
 iS 37 04.8 (ZN)
 iP D 23 22 43.8 (Z)
 iS 57.2 (ZNE)
 26 iP C 00 21 05.1 (Z)
 i(S) 40.0 (ZNN')
 iP D 00 47 06.3 (Z)
 iS 35.7 (ZNE)
 iP D 02 18 07.0 (Z)
 iP D 03 26 46.9 (Z)
 iS 54.9 (ZN)

26 eP 03 44 32.8 (Z)
 eS 45 55.3 (ZNE)
 eiP C 04 11 11.1 (Z)
 iS 15.5 (ZNE)
 eP 07 37 13.0 (Z)
 iS 26.2 (ZNE)
 iP D 11 42 11.0 (Z)
 iS 24.0 (ZNE)
 iP C 13 37 37.0 (Z)
 iS 38 01.5 (ZNE)
 iP D 14 01 37.0 (Z)
 iS 02 45.4 (ZNE)
 eP 18 55 21.7 (Z)
 eS 56 14.9 (ZNE)
 eiP 21 09 02.5 (Z)
 iS 10 10.9 (ZNE)
 27 iP C 00 59 38.0 (Z)
 iS 49.5 (ZNE)
 iP D 04 19 31.0 (Z)
 eiP 05 52 47.5 (Z)
 eS 53 58.5 (ZNE)
 eiP D 06 35 03.0 (Z)
 iP D 11 11 17.6 (Z)
 eS 43.0 (NE)
 i(S) 47.5 (ZE)
 iP D 13 54 14.0 (ZZ')
 e(S) 36.0 (N'E')
 iP C 15 10 10.3 (Z)
 iS 54.5 (ZNE)
 eP 17 36 59.0 (Z)
 eS 37 16.0 (ZNE)
 iP D 20 44 52.8 (Z)
 iS 45 08.0 (ZNE)
 28 iP D 00 59 38.0 (Z)
 iS 51.0 (ZNE)
 iP D 02 02 36.8 (Z)
 iS 55.0 (ZNE)
 eP 03 48 30.0 (Z)
 iS 40.4 (ZNE)
 iP C 16 38 18.5 (Z)
 iS 39.3 (ZN)
 e 17 20 27.0 (N'E')
 e 27 40.0 (Z')
 e 40 07.0 (Z'N'E') T:30.0 A:07.0
 eP 21 13 54.9 (Z)
 i(S) 14 32.9 (ZN)
 iS 34.9 (NE)

29 iP D 03 36 35.2 (Z)
 e 37 07.3 (Z)
 eP 08 12 15.5 (Z)
 eS 54.8 (Z)
 30 iP C 00 56 46.1 (Z)
 i(S) 52.6 (Z)
 iP C 03 15 24.6 (Z) T:00.9 A:02.0
 eiP 04 25 34.5 (Z)
 iS 46.0 (ZN)
 eP 07 34 46.5 (Z)
 iS 35 49.0 (ZNE)
 eP 08 00 00.0 (Z)
 i 07.8 (N)
 iS 01 12.6 (Z)
 i(P) C 13 36 26.4 (Z)
 iP C 17 36 21.8 (Z)
 iS 53.7 (N)

C : compresión
 D : dilatación

Mayo 09, 1966

Jouy



LECTURAS EN LA ESTACION SISMOGRAFICA DE AREQUIPA

(ARE, VELA)

Coordenadas de la estación : Latitud : 16°27'43,5" Sur
 Longitud : 71°29'28.6" Oeste
 Altitud : 2,451.6 mts.

Instrumentos : Benioff, Período Corto (Z,N,E).- Amplificación: 50,000
 Sprengnether, P. Largo (Z',N',E').- Amplificación: 1,500

MAYO, 1966

1 eP	03 34 40.6 (Z)		3 iP	C 02 29 41.9 (Z)	
iS	57.5 (N)		iS	59.5 (ZNE)	
iP	C 04 20 17.0 (Z)		eP	04 26 55.3 (Z)	
iS	21.6 (ZNE)		iS	27 11.2 (ZNE)	
iP	D 05 41 43.0 (Z)		eP	07 24 17.1 (Z)	
iS	42 05.8 (Z)		iS	34.5 (ZNE)	
eP	06 20 31.5 (Z)		eiP	D 10 09 02.0 (Z)	
i	41.0 (Z)		e	24.3 (Z)	
iS	21 43.0 (Z)		iP	C 10 11 11.7 (Z)	
iP	C 07 44 10.2 (Z)		i	16.8 (Z)	
iS	33.6 (Z)		iP	C 16 31 53.2 (Z)	
iP	D 09 31 43.5 (Z)		iS	32 08.0 (N)	
iS	32 05.0 (ZNE)		4 iP	C 03 51 41.9 (Z)	
eiP	16 24 56.0 (Z)		iS	47.1 (NE)	
i(S)	25 59.0 (E)		eP	07 29 13.5 (Z)	
2 iP	D 05 23 44.8 (Z)		eS	28.2 (ZE)	
iS	24 05.2 (ZE)		iP	C 09 46 19.2 (Z)	
iP	D 05 44 14.0 (Z)		i	29.5 (Z)	
iS	20.0 (Z)		iS	33.3 (N)	
iP	C 10 10 15.5 (Z)		iP	C 10 59 19.0 (Z)	
i(S)	58.2 (Z)		i	11 00 08.5 (E)	
eiP	10 15 29.7 (Z)		i(S)	18.3 (E)	
eiP	10 57 50.9 (Z)		iP	C 18 20 26.5 (Z)	T:01.0 A:05.5
i	58 57.2 (Z)	T:01.0 A:05.2	iP	19 25 14.4 (Z)	
iP	C 11 07 25.2 (Z)		iS	26 10.0 (NE)	
iS	57.6 (ZE)		eP	19 31 51.4 (Z)	
iP	C 16 42 55.5 (Z)		5 iP	C 04 42 58.0 (Z)	
iS	43 11.0 (E)		iS	43 04.2 (ZNE)	
eP	16 59 37.2 (Z)		iP	C 06 55 46.2 (Z)	
iS	17 00 51.3 (E)		iP	C 14 41 26.2 (Z)	
iP	C 18 57 18.0 (Z)		e	15 06 42.0 (N')	
iS	38.8 (NE)		eL	41 12.0 (Z'E')	
iP	C 21 29 28.1 (Z)		eiP	19 01 48.4 (Z)	
iS	56.0 (ZN)		iS	02 11.9 (Z)	
iP	C 21 34 42.3 (Z)		eiP	20 26 22.1 (Z)	
iS	35 10.5 (Z)		iS	27 53.5 (NE)	
3 eiP	00 39 22.5 (Z)		eP	22 45 18.0 (Z)	
iS	54.7 (ZN)		iS	46 04.4 (N)	



5 iP 22 47 22.2 (Z)
iS 27.0 (ZNE)

6 iP D 04 08 05.0 (Z)
iS 16.4 (ZNE)

iP C 07 18 04.0 (Z)
iS 22.1 (Z'N'E')

eP 09 01 10.6 (Z)

eiP C 15 11 04.3 (Z) T:01.0 A:07.0

iP D 20 12 25.3 (Z)
iS 38.1 (ZNE)

7 iP D 00 30 20.0 (Z)
iS 34.5 (ZE)

iP 02 00 24.4 (Z)
iS 29.0 (EN'E')

iP C 02 20 11.0 (Z)
iS 40.0 (NE)

eP 08 00 40.5 (Z)
i(S) 01 37.6 (E)

iP D 09 59 47.5 (Z)
eS 10 00 16.6 (ZE)

iP C 15 58 23.1 (Z)
iS 43.1 (NE)

iP C 16 35 43.8 (Z)
iS 36 00.7 (ZNE)

8 eP 02 14 40.2 (Z)
iS 15 37.3 (NE)

iP 02 16 57.0 (Z)
iS 17 15.1 (ZNE)

iP C 06 31 02.1 (Z)
iS 27.7 (E)

eP 06 32 31.0 (Z)
iS 58.3 (ZN)

iP D 17 11 55.1 (Z)
iS 12 00.3 (Z)

eP 17 35 22.5 (Z)
i 36 12.3 (N)

iP D 17 37 43.3 (Z)
iS 55.1 (ZNE)

iP C 19 39 46.0 (Z)
iS 40 10.6 (E)

iP D 20 00 54.6 (Z)
iS 01 26.8 (Z)

iP D 23 29 48.7 (Z)
iS 58.1 (NE)

9 iP C 01 32 42.8 (Z)
iS 33 14.1 (E)

eP 03 17 26.8 (Z)

9 iP C 03 43 09.7 (Z)

eP 03 50 46.5 (Z)
e 52 38.4 (Z)

eiP D 04 19 43.2 (Z)
iS 20 20.0 (E)

eP 05 47 12.0 (Z)
iS 16.5 (ZNE)

iP D 09 20 42.0 (Z)
iS 21 01.0 (N)

eiP D 09 27 27.3 (Z)
iS 47.1 (N)

eiP C 12 33 44.7 (Z)
iS 50.3 (N)

iP C 15 43 08.4 (ZZ')
iS 21.2 (N'E')

iP C 16 38 25.2 (Z)
iS 40.8 (ZNE)

eP 17 48 25.7 (Z)
iS 43.9 (E)

10 e(P) 06 12 51.3 (Z)

iP C 07 19 11.0 (Z)
iS 20 07.4 (N)

iP C 07 55 55.7 (Z)

T:01.0 A:03.7

eP 10 08 06.5 (Z)

eiP 13 10 57.5 (Z)
i 11 00.0 (Z)
iS 52.6 (E)

eP 18 36 22.5 (Z)
iS 44.2 (ZNE)

11 e(P) 00 48 17.0 (Z)

eP 02 13 20.3 (Z)

iP C 03 58 13.5 (Z)
i 42.2 (Z)
e 59 34.0 (Z)

iP C 05 26 01.9 (Z)
iS 22.5 (ZNE)

iP C 07 05 41.8 (Z)
iS 51.8 (ZNE)

iP D 08 00 05.1 (Z)
eS 35.3 (NE)

eP 09 07 18.2 (Z)
eS 08 15.5 (ZE)

eP 10 10 12.7 (Z)

iP D 11 03 38.5 (Z)
eS 04 08.0 (NE)

iP D 14 36 48.4 (Z)

11 iP D 16 35 50.0 (Z)
 iS 36 05.7 (ZN)

12 iP D 05 58 53.0 (Z)
 iS 59 18.0 (ZNE)

eP 06 57 44.5 (Z)
 iS 58 00.9 (ZNE)

eP 07 33 25.0 (Z)
 e 48.5 (Z)

eiP 10 11 11.9 (Z)

eiP C 12 02 05.0 (Z)

iP C 16 38 58.5 (Z)
 eS 39 14.5 (NE)

13 iP D 01 01 43.8 (Z)
 iS 02 15.3 (ZN)

iP C 01 35 52.8 (Z)
 i(S) 36 19.3 (Z)

iP C 13 41 01.9 (Z)

iP C 16 42 55.3 (Z)
 iS 43 29.5 (NE)

iP C 23 46 39.5 (Z)
 iS 47 33.2 (ZNE)

14 iP D 03 41 54.1 (Z)
 iS 42 26.7 (Z)

iP C 05 45 42.7 (Z)
 iS 46 49.0 (ZNE)

iP D 06 27 43.0 (Z)

eiP 09 03 27.3 (Z)
 iS 33.3 (ZNE)

iP C 11 08 01.8 (Z)
 iS 31.4 (ZE)

15 iP D 16 45 00.6 (Z)
 iS 17.4 (Z)

iP D 03 52 35.5 (Z)
 iS 53 06.0 (E)

iP C 05 26 10.0 (Z)
 iS 14.5 (ZNE)

e(P) 05 45 13.0 (Z)
 iS 27.5 (ZNE)

iP D 07 20 20.5 (Z)

eiP D 13 49 59.3 (Z)
 iS 50 59.2 (Z)

e(P) 15 05 35.8 (Z)

16 iP D 02 14 04.2 (Z)
 iS 18.0 (E)

eiP D 03 06 05.3 (Z)
 i 58.8 (Z)

T:01.3 A;06.5

T:01.1 A:02.7

16 eP 04 26 35.8 (Z)
 iS 49.6 (N)

eiP 07 22 45.6 (Z)
 eS 23 18.4 (Z)

eP 08 08 13.8 (Z)
 eS 09 05.5 (N)

iP C 16 59 54.0 (Z)
 iS 17 00 14.0 (ZE)

17 iP D 01 18 39.9 (Z)

i(P) 01 55 36.0 (Z)

eiP 05 50 47.5 (Z)
 iS 51 06.5 (E)

iP 06 08 56.3 (Z)
 iS 09 11.0 (ZNE)

eiP 08 35 09.1 (Z)
 i 23.8 (Z)
 iS 36 21.9 (N)

e(P) 09 34 07.2 (Z)

eiP 10 51 19.5 (Z)
 iS 35.5 (N)

iP C 16 41 22.8 (Z)
 iS 34.4 (NE)

eiP 17 04 04.5 (Z)
 e 08 50.0 (N')

iP D 19 01 22.6 (Z)

iP D 22 42 43.6 (Z)
 iS 43 11.0 (ZNE)

18 eP 01 25 07.0 (Z)
 eS 26 04.0 (ZNE)

eiP C 04 28 52.6 (Z)

iP D 04 48 57.0 (Z)

iP D 06 10 08.2 (Z)
 iS 43.5 (ZNE)

iP C 06 16 07.5 (Z)

iP D 07 41 39.8 (Z)
 i 42 43.2 (Z)
 i 49 29.0 (N'E')
 eL 55 30.0 (N'E')

iP D 08 25 21.1 (Z)
 iS 31.3 (ZNE)

iP C 08 34 20.0 (Z)
 iS 55.0 (ZNE)

iP D 10 18 21.8 (Z)
 iS 37.0 (ZNE)

iP D 10 22 28.0 (Z)
 iS 38.5 (NN'E')



18 iP 13 08 02.9 (Z)
 iS 57.9 (ZNE)
 eP 23 08 19.5 (Z)
 19 iP C 03 21 17.7 (Z)
 iS 47.7 (ZNE)
 eP 06 10 17.8 (Z)
 iS 36.5 (N)
 iP C 06 18 16.9 (Z)
 eP 06 33 33.8 (Z)
 i 36.1 (Z)
 iS 35 07.7 (ZE)
 iP C 06 46 29.2 (Z)
 iS 48.5 (N)
 e 07 31 05.2 (N'E')
 e 34 04.6 (Z')
 e 39 38.0 (E')
 eL 48 00.0 (E')
 eL 57 00.0 (Z')
 eP 07 36 12.8 (Z)
 iS 39.0 (NE)
 eP 09 44 39.4 (Z)
 i 45.7 (Z)
 e 46 11.3 (Z)
 iP C 14 07 30.2 (Z)
 iP C 15 21 24.5 (Z)
 iS 22 11.2 (ZE)
 eiP 16 33 02.8 (Z)
 iS 18.2 (Z)
 iP D 17 34 42.4 (Z)
 iS 52.0 (Z')
 iP C 19 13 29.3 (Z)
 iP 19 20 35.8 (Z)
 i(S) 49.2 (E)
 20 eiP 01 10 28.8 (Z)
 iS 11 05.6 (ZE)
 iP D 01 44 44.2 (Z)
 iS 45 25.0 (N)
 iP C 06 41 56.9 (Z)
 i 42 00.9 (E)
 iS 36.2 (ZE)
 eiP 07 56 06.9 (Z)
 iP D 08 18 42.3 (Z)
 iP 08 49 37.8 (Z)
 iS 48.3 (ZNE)
 eiP 09 34 16.0 (Z)
 e 47 47.0 (E')
 e 56 44.0 (Z')
 eL 10 20 45.0 (Z'E')

20 i(P) D 12 32 10.4 (Z)
 eiP 20.0 (Z)
 iS 33 04.0 (E)
 iP D 13 41 49.9 (Z)
 iS 43 14.0 (E)
 eP 16 01 18.2 (Z)
 i(S) 02 22.3 (E)
 iP C 16 37 40.1 (Z)
 i(S) 56.3 (Z)
 iP C 17 03 49.0 (Z)
 iS 04 04.9 (ZE)
 iP D 18 23 43.0 (Z)
 iP C 19 21 57.7 (Z)
 iS 22 31.7 (E)
 eiP 22 54 52.5 (Z)
 iS 57.1 (ZNE)
 iP D 23 11 52.0 (Z)
 eS 12 11.8 (E)
 eiP 23 13 23.0 (Z)
 iS 40.5 (ZNE)
 21 iP C 01 54 52.5 (Z)
 iS 55 17.2 (ZN)
 eP 07 09 12.5 (Z)
 i 15.2 (Z)
 i 57.5 (Z)
 eP 07 46 43.5 (Z)
 iP D 12 11 20.5 (Z)
 iS 30.3 (ZNE)
 i(P) C 14 02 19.0 (Z)
 iS 03 24.5 (N)
 i(P) C 18 00 43.7 (Z)
 iS 01 01.8 (ZNE)
 22 iP D 00 42 39.5 (Z)
 iS 43.7 (ZNE)
 eiP 03 11 12.0 (Z)
 eP 06 51 31.1 (Z)
 eS 46.1 (ZE)
 iP D 12 34 45.3 (Z)
 i(S) 35 41.0 (N)
 eiP 16 22 23.3 (Z)
 iS 23 16.4 (NE)
 23 iP C 01 43 38.6 (Z)
 eP 03 38 30.0 (Z)
 eS 39 28.0 (ZNE)
 eiP 07 25 28.0 (Z)
 iP D 08 59 28.1 (Z)

T:01.1 A:02.5

23 iP D 09 55 43.0 (Z)
 iS 47.1 (ZNE)
 iP D 16 38 15.0 (Z)
 iS 30.1 (ZN)
 iP C 18 01 25.8 (ZZ')
 iS 02 17.0 (Z'N'E')
 i(S) 18.6 (E')
 i(P) D 21 05 43.0 (Z)
 24 iP C 01 55 01.3 (Z)
 iS 50.2 (Z)
 eiP 02 59 45.8 (Z)
 i 03 02 30.0 (N)
 eiP 05 04 09.7 (Z)
 iS 26.3 (ZE)
 eiP 05 50 44.8 (Z)
 iS 51 03.0 (E)
 iP D 06 00 53.5 (Z)
 eiP 07 30 29.6 (Z)
 e 39 34.0 (N)
 e 51 36.0 (N)
 iP C 08 05 34.4 (Z)
 iS 06 03.2 (Z)
 eiP 08 49 56.9 (Z)
 iP C 16 33 22.0 (Z)
 iS 37.4 (ZE)
 iP D 18 29 16.8 (Z)
 iS 34.0 (ZNE)
 iP C 20 54 46.3 (Z)
 e 21 00 08.4 (Z')
 iP C 22 20 39.7 (Z)
 iS 21 03.9 (ZE)
 25 iP D 04 48 18.5 (Z)
 iS 46.5 (NE)
 eP 06 23 08.8 (Z)
 iS 24 09.5 (E)
 iP C 08 07 10.0 (Z)
 iS 58.5 (N)
 eiP 08 48 41.8 (Z)
 i 45.1 (Z) T:01.2 A:07.0
 eiP 10 15 13.2 (Z) T:00.8 A:01.6
 iP C 10 24 06.7 (Z)
 iS 20.5 (NE)
 iP 10 42 21.4 (Z)
 iS 44.5 (ZNE)
 ei(P) 13 03 35.0 (Z)
 iS 05 02.4 (ZE)

25 e(P) 13 38 23.5 (Z)
 e 45 05.6 (N'E')
 e 47 21.6 (N'E')
 eL 14 01 56.0 (E')
 eL 05 52.0 (Z')
 iP D 16 30 16.8 (Z)
 i(S) 38.4 (Z'N')
 iP C 16 35 23.3 (Z)
 iS 52.1 (Z)
 iP C 18 23 05.1 (Z)
 iS 54.9 (ZNE)
 eiP 19 17 27.2 (Z)
 iS 18 03.7 (ZE)
 eiP 19 25 40.1 (Z)
 i(S) 26 06.4 (N)
 iP C 19 27 42.2 (Z)
 iS 58.3 (ZN)
 iP D 20 10 30.8 (Z)
 iS 11 55.9 (NE)
 e(P) 23 24 32.4 (Z)
 i 25 58.8 (Z)
 26 iP D 00 53 48.9 (Z)
 i(S) 54 07.2 (N'E')
 eiP 01 32 09.8 (Z)
 iS 28.3 (Z)
 iP D 02 08 28.2 (Z)
 iS 49.3 (Z)
 iP D 05 17 12.4 (Z)
 iS 23.5 (E)
 eiP D 05 55 29.4 (Z)
 eiP 06 24 40.6 (Z)
 eP 06 43 29.4 (Z)
 iS 44 56.9 (E)
 iP C 07 00 04.5 (Z)
 eS 32.0 (E)
 iP D 07 14 04.8 (Z)
 iS 15 08.3 (ZN)
 iP C 08 46 31.0 (Z)
 iS 47.0 (ZNE)
 eP 08 49 43.0 (Z)
 i 50 08.4 (Z) T:00.9 A:01.2
 eiP 08 55 27.5 (Z)
 iS 42.8 (ZNE)
 iP C 10 17 09.2 (Z) T:00.9 A:01.9
 eiP 10 27 54.9 (Z)
 iS 57.0 (E)

26 iP D 14 51 14.6 (Z)
 iP C 16 50 03.4 (Z)
 iS 18.8 (E)
 iP C 19 16 06.3 (Z)
 eS 17 30.0 (E)
 iP C 21 17 33.5 (Z)
 iS 49.0 (ZE)
 eP 21 36 41.0 (Z)
 i(S) 58.5 (N)

27 eP 00 17 50.2 (Z)
 eS 18 35.3 (N)
 eiP 00 38 55.3 (Z)
 iS 39 06.3 (ZNE)
 eiP 02 13 44.5 (Z)
 i(S) 14 20.6 (N)
 eP 03 40 22.2 (Z)
 i(S) 41 14.3 (N)
 iP 04 10 33.5 (Z)
 iS 37.4 (ZNE)
 iP C 10 03 11.1 (Z)
 iS 42.4 (E)
 iP C 10 34 34.8 (Z)
 iS 35 03.4 (NE)
 iP D 19 13 39.2 (Z)
 iP D 21 24 11.4 (Z)
 iS 13.0 (ZNE)

28 iP D 00 24 01.6 (Z)
 i 58.2 (Z) T:01.0 A:02.1
 eiP 02 55 40.6 (Z)
 eS 56 50.7 (E)
 i(P) C 05 41 07.9 (Z)
 eP 06 13 24.7 (Z)
 iS 14 35.1 (ZN)
 eP 06 26 12.5 (Z)
 i 32.3 (Z)
 iP D 08 50 42.1 (Z)
 iS 51 10.8 (N)
 iP C 09 52 20.5 (Z)
 iS 33.0 (N)
 eP 13 20 59.0 (Z)
 iS 21 35.5 (Z)
 eiP 16 20 03.5 (Z)
 i(S) 19.2 (E)
 iP C 16 40 28.6 (Z)
 iS 44.0 (Z)
 iP D 21 44 48.0 (Z)
 iS 59.0 (ZN)

29 iP C 03 46 43.8 (Z)
 iS 55.4 (NE)
 i(P) 05 08 48.9 (Z)
 iP C 54.9 (Z)
 iS 09 55.2 (ZE)
 iP C 06 28 21.3 (Z)
 iS 32.4 (Z)
 iP D 06 35 09.4 (Z)
 i 36.9 (Z)
 iS 47.3 (ZNE)
 iP C 09 42 17.3 (Z)
 iS 43 13.6 (Z)
 iP C 14 55 26.5 (Z)
 iS 39.8 (ZNE)
 iP C 16 34 54.2 (Z)
 iS 35 22.9 (Z)
 iP D 18 46 41.9 (Z)
 iS 47 09.3 (E)

30 eiP 01 20 26.9 (Z) T:01.0 A:01.7
 iP D 01 38 38.6 (Z) T:01.0 A:02.1
 eiP D 03 14 52.7 (Z) T:01.1 A:06.5
 i 18 30.9 (Z)
 e 25 32.9 (Z)
 eiP 03 48 35.8 (Z)
 iS 49.5 (ZNE)
 iP C 05 06 32.3 (Z)
 iS 49.4 (N)
 eiP 06 53 38.5 (Z)
 i 54 09.0 (Z) T:00.9 A:02.4
 iP C 08 34 27.0 (Z)
 iS 52.9 (NE)
 iP C 10 12 10.9 (Z)
 iS 41.2 (E)
 eiP 10 21 04.5 (Z)
 e 53.6 (Z)
 iP C 10 22 37.7 (Z) T:01.0 A:02.5
 iP D 14 31 40.5 (Z)
 iS 32 40.6 (N)
 iP D 17 12 37.6 (Z)
 i(S) 51.0 (E)
 iP C 19 42 55.4 (Z)
 eiP 22 32 34.1 (Z)
 iS 33 42.5 (Z)

31 iP C 03 00 21.8 (Z)
 iS 01 34.0 (ZNE)
 eP 03 06 00.9 (Z)
 eS 47.5 (ZE)

- 7 -

31 iP D 03 32 49.0 (Z)
iS 33 07.0 (ZNE)
eiP 07 15 16.0 (Z)
eS 45.0 (ZNE)
eP 08 52 20.0 (Z)
e 53 45.8 (N)
iP C 12 35 11.1 (Z)
iS 57.2 (ZE)

31 eP 15 38 18.3 (Z)
eS 39 43.0 (ZE)
eiP 16 16 07.0 (Z)
iS 14.9 (ZNE)
eP 18 36 38.2 (Z)
eS 37 28.0 (ZNE)

C : compresión
D : dilatación

Junio 06, 1966



Jouy

LECTURAS EN LA ESTACION SISMOGRAFICA DE AREQUIPA

(ARE, WWSSS)

Coordenadas de Latitud : 16°27'43.5" Sur
 la estación : Longitud : 71°29'28.6" Oeste
 Altitud : 2,451.6 mts.

Instrumentos : Benioff, Período Corto (Z,N,E).- Amplificación: 50,000
 Sprengnether, P. Largo (Z',N'E').- Amplificación: 1,500

JUNIO, 1966

1 eiP	03 35 24.0 (Z)		2 iP	D 17 06 03.2 (Z)	
iS	36 40.9 (ZN)		iS	20.0 (Z'N'E')	
eP	03 41 54.6 (Z)		eL	17 37 43.0 (Z')	
iS	42 14.7 (ZN)		iP	D 17 50 55.8 (Z)	
eP	06 51 57.4 (Z)		i(S)	51 52.0 (N')	
iP	D 07 11 20.3 (Z)		iP	D 18 26 53.0 (Z)	
iS	42.1 (ZNE)		iS	27 06.2 (ZNE)	
eP	10 06 42.2 (Z)		3 iP	C 02 06 54.2 (Z)	T:01.0 A:02.0
iS	07 34.0 (E)		eP	02 29 58.5 (Z)	
e	12 12 23.0 (Z')		iS	30 14.5 (Z)	
eL	31 26.0 (Z')		eP	04 43 31.5 (Z)	
iP	15 38 14.8 (Z)		iS	44 05.1 (N)	
iS	30.0 (NE)		iP	D 07 04 04.8 (Z)	
iP	C 18 19 00.0 (Z)		iS	22.0 (NE)	
iS	21.4 (N'E')		eP	07 49 58.4 (Z)	
iP	D 19 41 53.3 (Z)		iS	50 32.8 (Z)	
iS	42 10.5 (Z)		eP	08 02 04.8 (Z)	
iP	C 23 33 54.8 (Z)		e(P)	08 03 03.1 (Z)	
i(S)	57.6 (NE)		e(P)	08 04 06.8 (Z)	
2 eiP	02 35 04.5 (Z)		eP	10 14 47.5 (Z)	
eS	36 30.8 (ZN)		iP	D 10 46 23.1 (Z)	T:00.9 A:13.0
i(S)	34.0 (E)		i	58.6 (Z)	
eP	03 13 38.0 (Z)		iP	D 14 11 02.0 (Z)	T:01.0 A:10.5
eS	14 23.4 (ZNE)		iP	C 16 40 53.0 (Z)	
eiP	03 46 54.9 (Z)		iS	41 15.7 (NE)	
iS	47 10.3 (ZNE)		eP	16 56 57.2 (Z)	
eP	07 07 16.0 (Z)		iS	57 45.2 (E)	
e	08 12.0 (Z)		eP	18 49 55.3 (Z)	
eP	07 27 47.3 (Z)		iS	50 25.1 (ZN)	
i	28 23.3 (ZE)	T:01.0 A:07.0	iP	C 22 53 07.0 (Z)	
e	29 04.2 (Z)		iS	39.5 (ZE)	
iP	D 08 14 56.6 (Z)		4 eiP	00 21 05.3 (Z)	
iS	15 11.8 (ZNE)		iS	40.3 (N)	
iP	D 13 54 15.9 (Z)		iP	C 02 54 00.4 (Z)	
iS	29.0 (ZNE)		iS	29.1 (E)	
iP	C 15 41 02.9 (Z)				

4 iP D 03 46 56.8 (Z)
 iS 47 17.8 (E)
 iP D 03 53 08.2 (Z)
 iS 37.4 (ZN)
 iP C 03 56 23.9 (Z)
 iS 49.5 (ZE)
 iP C 04 07 26.6 (Z)
 iS 47.7 (Z)
 iP C 04 32 02.7 (Z)
 eS 33 05.1 (Z)
 eiP 05 30 56.7 (Z)
 i 31 04.2 (Z)
 eP 06 30 13.1 (Z)
 iP D 08 05 10.9 (Z)
 iP C 10 05 23.5 (Z)
 i 26.1 (Z)
 eS 06 05.6 (N')
 iP C 14 48 53.4 (Z)
 eS 49 27.0 (N')
 i 37.0 (Z'N')
 iP C 16 37 55.9 (Z)
 iS 38 11.9 (ZE)
 iP C 18 08 02.3 (Z)
 iS 49.0 (E')
 ei(P) 21 46 25.9 (Z)
 iS 48 05.8 (Z)

5 iP D 00 07 34.0 (Z)
 i 49.0 (Z)
 iP D 02 56 38.3 (Z) T:00.9 A:03.1
 iP D 03 38 29.4 (Z)
 iS 58.8 (N)
 iP D 04 17 58.2 (Z)
 iS 18 16.8 (N'E')
 iP D 05 34 31.9 (Z)
 iS 35 21.3 (ZNE)
 iP C 06 39 44.3 (Z)
 eS 40 12.3 (E)
 eiP 08 34 46.9 (Z)
 iS 35 00.4 (ZE)
 iP D 09 34 17.9 (Z)
 iS 27.4 (ZN)
 iP D 10 18 52.5 (Z)
 i 19 05.4 (Z) T:01.0 A:02.4
 eiP 10 24 34.3 (Z)

5 iP C 13 38 52.3 (Z)
 iS 39 10.0 (ZE)
 iP C 16 51 12.4 (Z)
 i(S) 40.7 (Z)
 iP D 17 02 07.1 (Z)
 iS 50.1 (N)
 eiP 18 32 00.6 (Z)
 eiP 19 04 56.9 (Z)
 iS 06 21.9 (N)
 iP D 21 12 41.5 (Z)
 iS 14 07.9 (N)
 eiP 23 11 37.0 (Z)

6 iP C 01 23 52.6 (Z)
 iS 24 26.2 (E)
 iP D 02 15 02.4 (Z)
 iS 16.7 (Z)
 eiP 04 57 33.0 (Z)
 e 58 10.0 (Z)
 i(P) D 05 46 29.7 (Z)
 iP C 06 27 46.5 (Z)
 iP D 07 35 35.6 (Z)
 iS 40.4 (ZNE)
 eiP C 08 05 15.8 (Z)
 i 06 18.3 (Z)
 i 08 27.4 (Z')
 e 17 46.0 (Z')
 eL 43 00.0 (N')
 iP D 08 35 00.5 (Z)
 eS 36 06.9 (Z)
 eP 09 32 38.1 (Z)
 eiP 09 59 52.4 (Z)
 i 57.7 (Z)
 ei(P) 10 19 26.5 (Z)
 e 54.4 (Z)
 iP C 11 10 15.0 (Z)
 iS 37.4 (Z)
 iP D 13 56 23.8 (Z)
 iS 37.5 (NE)
 iP C 14 24 15.4 (Z)
 iS 19.9 (ZE)
 iP C 16 39 31.5 (Z)
 iS 46.9 (ZN)
 eiP D 21 07 11.9 (Z)
 iP C 22 10 05.0 (Z)
 iS 29.9 (ZNE)

T:00.7 A:02.4
 T:00.9 A:01.7

7 iP C 01 00 51.5 (ZZ[†])
 i(S) 01 46.5 (N[†])
 e(P) 01 17 17.0 (Z)
 iS 18 22.4 (ZN)
 i(P) 01 21 13.4 (Z)
 iS 22 27.4 (Z)
 e(P) 01 57 24.2 (Z)
 i 58 04.4 (Z)
 i(S) 31.4 (Z)
 eP 02 11 21.3 (Z)
 iS 12 20.0 (N)
 eP 02 58 59.2 (Z)
 iS 59 53.0 (Z)
 iP C 03 25 22.5 (Z)
 iS 26 16.0 (N[†])
 eP 04 00 45.5 (Z)
 i 50.0 (Z)
 iS 01 47.6 (E)
 eP 04 49 33.7 (Z)
 i 40.5 (Z)
 iS 50 36.6 (N)
 iP 04 58 05.2 (Z)
 iS 16.3 (ZNE)
 eP 05 21 02.6 (Z)
 iS 56.2 (N)
 iP C 05 26 53.0 (Z)
 iS 27 03.0 (ZE)
 eP 05 40 02.6 (Z)
 eS 41 02.9 (Z)
 eP 06 45 03.1 (Z)
 iS 58.6 (E)
 eP 06 57 43.3 (Z)
 i 47.5 (Z)
 iS 58 44.6 (Z)
 eP 07 03 07.0 (Z)
 i 11.3 (Z)
 iS 04 05.0 (N)
 iP C 07 08 20.5 (Z)
 iS 25.3 (ZNE)
 eP 08 25 17.0 (Z)
 iS 26 26.6 (NE)
 e(P) 09 10 32.5 (Z)
 eP 11 42 46.0 (Z)
 i 50.4 (Z)
 iS 43 49.0 (Z)
 iP D 12 13 45.0 (Z)
 iS 55.4 (Z)

7 i(P) 12 15 08.7 (Z)
 iS 16 01.2 (Z)
 e(P) 12 18 24.3 (Z)
 iS 19 21.0 (Z)
 eP 12 49 55.5 (Z)
 iS 50 40.8 (Z)
 i(P) 13 07 03.8 (Z)
 iS 08 11.5 (Z)
 iP C 14 19 19.6 (ZZ[†])
 e(S) 22 29.0 (E[†])
 i 33 20.0 (Z[†])
 iP C 15 15 46.2 (ZZ[†])
 iS 16 40.0 (N[†])
 iP C 16 03 10.5 (Z)
 iS 46.4 (ZE)
 eP 15 35 46.2 (Z)
 iS 36 05.1 (Z)
 eP 16 39 49.3 (Z)
 iS 40 47.8 (N)
 eP 19 09 29.0 (Z)
 iS 10 26.5 (Z)
 eP 20 26 19.4 (Z)
 iS 27 15.6 (N)
 8 iP D 00 53 45.4 (Z)
 iS 54 12.8 (Z)
 iP C 03 18 54.5 (Z)
 iS 19 01.5 (ZNE)
 iP D 04 55 23.0 (Z)
 iS 39.8 (E)
 eP 05 06 43.6 (Z)
 iS 07 01.3 (ZNE)
 iP D 05 17 59.3 (Z)
 eS 18 44.0 (N)
 iP C 05 20 23.1 (Z)
 iS 51.2 (NE)
 eP 05 35 58.9 (Z)
 iS 36 57.3 (N)
 eiP 06 52 07.8 (Z)
 i 23.0 (E)
 i(S) 53 04.1 (E)
 eP 07 31 33.0 (Z)
 eS 32 26.5 (N)
 eiP 08 06 04.6 (Z)
 i(P) 08 22 56.4 (Z)
 eP 08 45 28.1 (Z)
 eS 46 25.1 (N)

T:01.0 A:19.0
 T:12.0 A:06.0

8 eiP 11 57 59.2 (Z)
 iS 59 29.6 (N)
 iP C 14 57 58.0 (Z)
 i(S) 58 55.9 (ZE)
 iP C 15 03 56.3 (Z)
 iS 05 20.0 (ZE)
 eiP 19 33 12.9 (Z)
 iS 34 12.1 (E)
 eiP 21 03 50.9 (Z)
 iS 04 46.9 (N)
 iP C 23 12 17.4 (Z)
 i(S) 46.1 (Z)
 eiP 23 49 18.2 (Z)
 iS 41.8 (N)
 9 eP 01 50 07.0 (Z)
 eiP 03 03 08.9 (Z)
 i 06 40.2 (Z)
 eiP 03 30 23.0 (Z)
 iS 31 23.9 (E)
 eiP D 04 55 26.6 (Z)
 iS 56 24.5 (N)
 iP D 05 03 57.7 (Z)
 iS 04 11.9 (ZE)
 eP 07 30 45.6 (Z)
 i(S) 31 27.5 (N)
 eP 09 01 13.1 (Z)
 eS 02 06.6 (N)
 eiP 13 23 35.9 (Z)
 i 46.5 (Z)
 i(S) 24 27.5 (Z)
 i(S) 41.6 (E)
 eiP 16 33 40.5 (Z)
 iS 35 05.3 (N)
 eiP 17 59 28.9 (Z)
 eP 19 07 34.7 (Z)
 iS 08 19.0 (ZN)
 i(S) 37.0 (E)
 eiP 20 03 41.3 (Z)
 iS 04 36.5 (N)
 iP D 20 12 28.7 (Z)
 iS 47.9 (ZE)
 eiP 20 47 58.8 (Z)
 iS 48 55.6 (N)
 10 eP 00 27 01.1 (Z)
 iS 28 00.5 (Z)

10 iP C 01 14 00.0 (Z)
 iS 15 02.5 (N)
 iP D 02 26 42.4 (Z)
 iS 56.0 (ZNE)
 eiP C 03 12 10.2 (Z)
 iS 46.0 (ZE)
 eiP D 04 39 34.0 (Z)
 i(S) 57.2 (E)
 eiP C 08 14 36.7 (Z)
 i(S) 15 37.0 (N')
 eP 09 17 08.0 (Z)
 iS 18 21.9 (N)
 eP 14 14 55.0 (Z)
 i(S) 15 58.2 (ZE)
 iP D 17 12 12.3 (Z)
 iS 13 10.6 (E)
 eP 18 39 30.7 (Z)
 iS 40 33.4 (N)
 eiP C 21 23 00.9 (Z)
 iS 24 05.4 (E)
 iP C 23 01 39.5 (Z)
 eP 23 46 49.9 (Z)
 iS 47 44.7 (N)
 11 iP D 05 10 12.8 (Z)
 iS 17.0 (ZNE)
 eiP 09 38 18.5 (Z)
 iS 39 13.5 (E)
 eP 11 01 03.9 (Z)
 iS 54.5 (N)
 iP D 11 05 21.6 (Z)
 eS 06 23.8 (N')
 eiP 14 22 52.0 (Z)
 i 23 24.9 (Z)
 i(S) 54.5 (Z)
 iP C 16 52 09.9 (Z)
 iS 25.3 (Z)
 eiP 16 53 31.7 (Z)
 iS 46.9 (ZE)
 eiP 17 51 28.5 (Z)
 iS 52 28.4 (E)
 eiP 22 53 21.3 (Z)
 iS 54 26.9 (ZE)
 12 iP C 02 17 05.4 (Z)
 i(P) D 02 29 02.4 (Z)
 iS 30 05.2 (N)

12 iP C 04 32 24.5 (Z)
 iS 30.5 (ZNE)
 eiP 06 20 08.4 (Z)
 iS 23.7 (ZE)
 iP D 07 22 49.1 (Z)
 iP C 09 30 34.8 (Z)
 iS 39.0 (ZNE)
 i(P) C 10 11 42.1 (Z)
 iP C 10 15 50.3 (Z)
 iS 55.0 (ZNE)
 iP C 11 43 05.5 (Z)
 iS 44 05.1 (NE)
 iP C 11 58 32.7 (Z)
 iS 37.5 (ZNE)
 iP C 14 21 57.8 (Z)
 iS 22 32.3 (Z)
 eiP 15 14 43.6 (Z)
 i(S) 15 45.4 (N)
 iP D 18 09 01.9 (Z)
 iS 06.9 (ZNE)
 eiP 19 16 26.9 (Z)
 i(S) 17 15.6 (Z)
 iS 34.4 (N)
 eiP 19 29 19.4 (Z)
 i(S) 31 32.4 (E)
 eiP 20 00 53.8 (Z)
 iS 01 18.9 (E)
 iP C 20 29 09.3 (Z)
 iP C 22 20 18.4 (Z)
 iS 56.7 (N)
 13 e(P) 00 28 34.0 (Z)
 iP C 01 11 20.4 (Z)
 iS 12 12.4 (ZE)
 iP C 01 54 22.1 (Z)
 iS 53.0 (Z)
 iP D 02 45 50.6 (Z)
 iS 46 05.3 (E)
 iP C 03 51 04.2 (Z)
 iS 08.4 (ZNE)
 iP D 04 56 16.9 (Z)
 iS 18.8 (ZNE)
 eP 05 30 19.6 (Z)
 i 24.6 (Z)
 iS 32 38.5 (ZE)
 ei(P) 07 00 37.7 (Z)

T:02.0 A:02.5

13 eiP 07 06 22.9 (Z)
 iP C 07 10 15.9 (Z)
 iS 41.2 (ZE)
 e 08 06 50.0 (N')
 e 17 18.0 (N')
 i(P) C 09 22 48.3 (Z)
 eiP 15 47 16.7 (Z)
 i(S) 45.2 (Z)
 iP D 16 41 45.9 (Z)
 iS 42 02.0 (ZN)
 eiP 18 26 50.9 (Z)
 i 27 55.9 (Z)
 i 37 18.5 (Z'E')
 i 38 56.9 (N'E')
 e 43 45.9 (Z'N'E')
 eiP 20 20 12.8 (Z)
 iS 28.2 (E)
 14 iP D 06 16 05.3 (Z)
 iS 17.4 (Z)
 eP 06 59 05.5 (Z)
 ei(P) D 07 00 56.7 (Z)
 i 01 04.4 (Z)
 iP D 07 38 46.4 (Z)
 iS 52.5 (ZNE)
 iP D 08 55 40.4 (Z)
 iS 56 09.2 (Z)
 iP D 09 08 01.6 (Z)
 iS 09 03.3 (Z)
 eiP D 17 01 02.9 (Z)
 iP C 18 00 20.0 (Z)
 iS 01 06.0 (ZNE)
 iP D 18 49 53.6 (Z)
 iS 50 14.7 (ZNE)
 eiP 20 20 28.7 (Z)
 i(S) 44.4 (Z)
 iP D 23 39 23.2 (Z)
 iS 27.5 (E)
 15 iP D 01 18 43.0 (Z)
 e 19 43.0 (Z')
 i 20 14.0 (Z'N'E')
 e 30 10.0 (E')
 eiP 02 52 16.4 (Z)
 eiP 10 33 35.0 (Z)
 iS 34 44.8 (NE)
 iP C 12 08 56.4 (Z)
 iS 09 19.5 (ZNE)

15 iP C 16 47 41.4 (Z)
 iS 56.8 (Z)
 iP C 17 08 45.8 (Z)
 iS 09 07.2 (ZNE)
 iP D 18 13 49.4 (Z)
 iP D 20 13 22.5 (Z)
 iS 42.4 (ZNE)
 eP 23 05 17.4 (Z)
 iS 57.5 (ZE)
 16 e(P) 00 55 20.6 (Z)
 i 39.5 (Z)
 eP 01 12 19.0 (Z)
 eS 54.5 (ZNE)
 iP C 07 15 26.1 (Z)
 eP 08 06 45.5 (Z)
 eS 07 14.5 (NE)
 eiP 09 00 27.3 (Z)
 eS 01 03.0 (ZNE)
 eP 18 08 29.0 (Z)
 i 10 04.6 (ZZ')
 e 17 37.0 (Z'N')
 eL 19 43.0 (Z'N')
 eL 21 31.0 (N')
 eiP 20 24 48.8 (Z)
 iS 25 11.5 (ZNE)
 iP C 20 34 01.5 (Z)
 iS 35 16.0 (Z'N'E')
 eP 22 59 13.9 (Z)
 eP 23 46 39.0 (Z)
 eS 47 39.5 (N)
 17 e(P) 00 21 22.5 (Z)
 eP 01 17 29.0 (Z)
 iS 18 25.0 (Z)
 eP 03 43 56.0 (Z)
 eS 44 46.5 (Z)
 e(P) 06 58 22.9 (Z)
 eiP C 10 18 25.2 (Z)
 iS 42.0 (ZN)
 eP 10 40 11.5 (Z)
 iS 41 13.7 (N)
 eP 18 51 46.0 (Z)
 iS 52 04.4 (ZN)
 iP D 22 42 42.1 (Z)
 iS 43 45.9 (ZNE)

18 iP D 00 28 33.1 (Z)
 iS 46.1 (E)
 eP 01 41 48.5 (Z)
 iS 42 46.0 (N)
 eiP 03 05 00.3 (Z)
 iS 38.4 (ZN)
 eP 03 51 17.9 (Z)
 eiP C 05 42 43.5 (Z)
 i(P) D 05 44 19.0 (Z)
 iS 45 17.5 (ZE)
 e(P) 06 32 11.4 (Z)
 iP C 06 45 12.1 (Z)
 iS 36.2 (NE)
 eiP 09 58 09.1 (Z)
 iS 59 15.6 (Z)
 eP 10 24 04.8 (Z)
 eiP 17 13 20.6 (Z)
 iS 14 07.5 (NE)
 eiP 20 11 06.2 (Z)
 iS 12 28.9 (N)
 19 iP D 03 57 40.0 (Z)
 iS 54.7 (ZNE)
 e(P) 06 03 32.8 (Z)
 eP 07 23 37.9 (Z)
 iP 07 32 29.0 (Z)
 iS 42.2 (ZNE)
 eiP 08 44 01.6 (Z)
 iS 45 00.7 (E)
 i(P) C 10 32 30.0 (Z)
 eiP 13 43 25.7 (Z)
 iS 44 19.8 (E)
 eiP C 15 41 54.5 (Z)
 e(S) 42 49.0 (Z)
 eiP 21 24 22.1 (Z)
 iS 45.0 (N)
 iP D 21 29 52.4 (Z)
 iS 30 06.4 (Z)
 ei(P) 22 05 27.0 (Z)
 iS 06 32.0 (N)
 iP C 22 39 45.0 (Z)
 i(S) 48.5 (Z)
 20 eiP 00 28 36.2 (Z)
 i(S) 29 23.7 (N)

20 iP D 00 31 23.5 (Z)
 i 26.4 (Z)
 iS 32 27.1 (Z)
 iP C 02 18 41.8 (Z)
 iS 47.2 (N)
 iP C 02 29 45.5 (Z)
 iS 50.2 (ZNE)
 iP C 02 55 37.2 (Z)
 iS 49.0 (N)
 iP D 04 56 38.9 (Z)
 eP 08 02 43.0 (Z)
 e 09 38 52.4 (Z')
 e 52 47.4 (N')
 e 54 29.0 (Z')
 e(P) 09 45 03.8 (Z)
 eP 10 02 55.4 (Z)
 iS 03 14.7 (E)
 i(P) D 10 30 26.8 (Z)
 i 40.7 (Z)
 iP D 11 02 04.9 (Z)
 i(S) 21.8 (N'E')
 eiP 12 58 05.8 (Z)
 iS 28.0 (Z)
 eP 13 09 51.8 (Z)
 iS 10 15.6 (ZNE)
 iP D 17 28 56.9 (Z)
 iS 29 15.1 (ZNE)
 iP C 20 34 22.6 (Z)
 iS 37.9 (ZN)
 iP D 21 18 01.1 (Z)
 iS 11.5 (ZNE)
 eiP 23 53 36.8 (Z)
 21 eP 00 06 20.9 (Z)
 iS 07 17.3 (N)
 e 01 20 00.0 (Z')
 e 37 51.0 (Z')
 eP 02 16 49.0 (Z)
 iS 18 01.0 (N)
 iP D 02 38 48.9 (Z)
 iS 39 04.1 (E)
 eiP 04 10 03.8 (Z)
 eP 06 06 51.9 (Z)
 i 07 00.0 (Z)
 iS 56.2 (Z)

21 eP 06 40 55.6 (Z)
 iS 41 27.4 (E)
 e(P) 10 11 12.3 (Z)
 iP C 13 03 58.3 (Z)
 iP C 13 08 22.2 (Z)
 iP D 13 43 59.1 (Z)
 iS 44 12.3 (Z)
 iP C 16 27 44.2 (Z)
 eS 28 15.3 (Z)
 e(P) 18 19 10.9 (Z)
 eiP 21 35 14.6 (Z)
 iS 37.9 (ZE)
 iP C 22 54 51.0 (Z)
 iS 55 48.6 (Z)
 ei(P) 23 46 25.9 (Z)
 22 iP 00 08 55.0 (Z)
 iS 09 59.5 (NE)
 iP D 01 53 36.6 (Z)
 iS 55.5 (ZNE)
 iP D 02 57 35.0 (Z)
 iS 51.3 (ZE)
 iP D 04 13 43.3 (Z)
 i(S) 54.0 (N'E')
 eP 05 58 31.5 (Z)
 eP 07 18 03.6 (Z)
 i 20.4 (Z)
 iP D 10 10 09.0 (Z)
 iS 26.2 (E)
 eP 10 31 55.5 (Z)
 e 33 01.5 (Z)
 eiP 13 45 30.5 (Z)
 iS 46 14.0 (E)
 iP D 17 44 45.7 (Z)
 iS 45 19.0 (E)
 iP D 20 47 56.4 (Z)
 e 50 04.3 (Z')
 i 51 50.4 (ZZ'N'E')T:1.5 A:41.0
 e 21 00 45.9 (Z')
 i 04 59.9 (Z')
 23 iP D 00 20 47.4 (Z)
 iS 21 09.4 (Z'N'E')
 iP C 01 34 34.3 (Z)
 iS 54.3 (Z)
 iP D 02 48 11.5 (Z)
 iS 29.5 (ZE)

23 iP D 04 39 21.4 (Z)
 iP D 05 24 06.7 (Z)
 iP C 05 28 28.7 (Z)
 iS 40.6 (ZE)
 e(P) 06 20 44.0 (Z)
 ei(P) 10 24 58.2 (Z)
 i 25 55.8 (Z)
 eiP 11 12 05.5 (Z)
 iS 23.0 (ZE)
 iP C 16 41 40.7 (Z)
 iS 56.5 (Z)
 iP C 21 08 44.2 (Z)
 i(S) 09 09.9 (Z)

24 iP D 01 57 46.0 (Z)
 iS 58 06.3 (ZE)
 eP 05 50 02.0 (Z)
 iS 38.0 (ZNE)
 eP 06 41 27.4 (Z)
 iS 54.2 (N)
 eP 07 09 27.0 (Z)
 iS 50.8 (E)
 iP D 14 04 20.7 (Z)
 iS 59.6 (ZE)
 iP D 17 02 37.2 (Z)
 iS 54.4 (N)

25 eiP 02 05 48.5 (Z) T:01.5 A:02.5
 iP D 04 59 24.0 (Z)
 iS 51.5 (ZN)
 iP C 06 30 32.4 (Z)
 iS 38.0 (ZE)
 eP 08 29 37.5 (Z)
 iS 30 03.3 (N)
 eiP 09 59 03.3 (Z)
 i 17.5 (Z)
 iS 19.5 (ZNE)
 iP C 10 12 31.0 (Z)
 iS 13 04.3 (Z)
 iP C 16 48 53.3 (Z)
 i(S) 49 09.9 (E)
 eiP 17 43 58.6 (Z)
 eS 44 28.6 (Z)
 eP 18 36 31.9 (Z)
 eiP 21 29 35.7 (Z)
 iS 53.2 (Z)

26 iP D 04 30 10.4 (Z)
 iS 23.9 (ZN)
 iP 05 50 40.6 (Z)
 i(S) 51.0 (E)
 eiP 06 06 48.3 (Z)
 iS 07 30.7 (E)
 iP C 07 54 38.0 (Z)
 eP 08 05 06.0 (Z)
 iS 06 06.5 (E)
 iP C 08 35 30.1 (Z)
 iS 37 37.8 (ZNE)
 eiP 13 07 46.7 (Z)
 iS 58.4 (ZNE)
 eiP 21 05 43.5 (Z)
 iS 06 23.7 (ZE)

27 eiP 03 10 42.5 (Z)
 iS 11 07.2 (ZNE)
 iP C 07 18 41.4 (Z)
 iS 52.1 (ZNE)
 iP C 11 00 57.4 (Z)
 i 01 02.7 (Z)
 iP C 11 07 38.9 (Z) T:00.9 A:03.9
 iP C 11 09 34.5 (Z) T:01.0 A:04.0
 i 42.6 (Z)
 iP D 11 19 06.5 (Z)
 i 10.7 (Z)
 e 42 05.6 (N'E)
 e 53 00.0 (N)
 iP 11 41 37.7 (Z)
 i 44 03.3 (Z)
 iP C 12 15 38.0 (Z)
 iS 16 09.3 (E)
 iP D 14 15 40.7 (Z)
 i 46.3 (Z) T:01.0 A:10.1
 iP C 14 57 57.8 (Z)
 iS 58 19.0 (Z)
 iP C 15 54 12.3 (Z)
 iS 48.9 (NE)
 iP C 21 55 30.3 (Z)
 iS 58.0 (ZN)

28 eP 01 28 09.9 (Z)
 e(P) 03 30 21.9 (Z)
 iP D 03 50 36.4 (Z)
 eP 04 20 09.0 (Z)

28 eiP 04 37 24.9 (Z)
 e 46 39.0 (N)
 e 54 29.0 (N)
 eP 04 56 27.5 (Z)
 eP 08 29 20.5 (Z)
 i(P) 09 48 58.8 (Z)
 iS 49 57.9 (Z)
 ei(P) 10 22 57.8 (Z)
 iP D 14 20 00.9 (Z)
 iS 29.4 (ZE)
 i(P) 15 26 44.9 (Z)
 eP 22 08 32.2 (Z)
 iS 09 23.5 (Z)
 29 eiP C 00 26 17.9 (Z)
 i(S) 27 08.8 (ZE)
 iP D 01 02 07.0 (Z)
 iP C 04 33 13.8 (Z)
 iS 27.8 (ZNE)
 eiP D 06 06 09.1 (Z)
 eiP 07 17 29.1 (Z)
 eiP 14 35 49.3 (Z)
 iS 36 32.0 (Z)
 iP D 17 24 13.4 (Z)
 iS 34.5 (E)
 iP C 23 12 48.7 (Z)
 iS 13 19.9 (Z)

30 eiP D 09 18 38.7 (Z)
 eP 09 57 49.0 (Z)
 iS 58 16.5 (N)
 iP C 22 26 03.9 (Z)
 i 14.0 (Z)
 eP 22 48 29.7 (Z)
 iS 49 02.2 (N)

C : compresión
 D : dilatación

Julio 06, 1966

Doval



Peru

LECTURAS EN LA ESTACION SISMOGRAFICA DE AREQUIPA

(ARE, WWSSS)

Coordenadas de la estación : Latitud : 16°27'43.5" Sur
 Longitud : 71°29'28.6" Oeste
 Altitud : 2,451.6 mts.

Instrumentos : Benioff, Período Corto (Z,N,E).- Amplificación: 50,000
 Sprengnether, P. Largo (Z',N',E').- Amplificación: 1,500

JULIO, 1966

1	eiP	C	06	10	33.2	{Z'}	T:01.8	A:11.5	3	iP	C	11	04	44.4	{Z}
	i			11	28.5	{Z'}	T:01.8	A:14.0		iS				49.9	{ZNE}
	i			15	11.5	{ZZ'E'}	T:02.0	A:11.0		iP		16	35	35.7	{Z}
	e			22	40.0	{Z'E'}				iS				47.0	{N'E'}
	e			26	50.0	{Z'N'}				eiP		18	51	23.6	{Z}
	e(L)		07	11	28.0	{Z'N'}				eS				52	{ZE}
	eP		06	38	04.8	{Z}				eiP	D	18	59	33.7	{Z}
	iS				15.2	{Z}				i(S)				56.8	{Z}
	eP		06	44	21.5	{Z}				iP	C	20	40	31.0	{Z}
	iS				48.5	{N}				iS				41	{ZE}
	eiP	D	06	55	17.9	{Z}									
	iS				38.2	{E}			4	eP		00	11	49.0	{Z}
	iP	C	10	00	32.5	{Z}				iP	C	00	54	59.1	{Z}
	iS			01	00.2	{E}				iP	C	00	55	36.4	{Z}
	eiP	C	10	41	44.0	{Z}				iS				56	{NE}
	eP		12	59	23.0	{Z}				iP	D	01	31	07.9	{Z}
	iS				42.1	{ZN}				iS				39.7	{ZNE}
	iP	C	19	39	30.4	{Z}				eiP	C	04	19	03.2	{Z}
	iS				42.6	{ZNE}				iS				30.2	{N}
2	eiP		06	25	11.0	{Z}				iP	C	07	31	07.0	{Z}
	iS				44.9	{E}				iS				35.2	{E}
	iP	D	07	07	15.0	{Z}				eP		07	35	15.7	{Z}
	eS				41.0	{Z}				eS				36	{Z}
	iP	D	10	31	10.8	{Z}				iP	C	07	43	41.9	{Z}
	iS			32	04.1	{NE}				iS				44	{N}
	iP	D	19	52	55.3	{Z}				eiP	C	08	36	04.9	{Z}
	iS			53	24.3	{Z}				iS				37.2	{ZNE}
	eiP		21	23	52.8	{Z}				eiP		09	23	52.9	{Z}
	iS			25	23.4	{N}				iS				24	{E}
3	eP		04	41	19.1	{Z}				e(P)		10	14	49.6	{Z}
	iS				34.5	{ZNE}				iP	D	10	35	20.8	{Z}
	eiP		06	01	05.8	{Z}				iS				42.5	{ZN}
	iS				26.6	{N}				eiP		13	15	14.9	{Z}
	eiP		06	10	11.5	{Z}				eS				16	{Z}
	iS				23.5	{ZNE}				eP		13	55	04.4	{Z}
	eiP	D	06	37	44.3	{Z}				eiP		18	52	27.7	{Z}
	eS			39	36.7	{E}				e				53	{Z}
	iP	D	10	20	19.8	{Z}				eS		19	02	49.9	{Z'}
	eS				40.7	{E}				e				09	{E'}

4 iP C 22 38 11.6 (Z)
 iS 28.3 (ZE)

5 iP C 00 46 31.5 (Z)
 iP C 05 46 25.1 (Z)
 eS 50.6 (E)

i(P) C 10 54 04.4 (Z)
 iS 55 39.0 (ZNE)

iP 13 39 40.9 (Z)
 iS 57.1 (Z)

iP C 13 58 39.3 (Z)
 iS 54.5 (ZE)

iP C 14 12 22.8 (Z)
 iS 47.1 (E)

eiP 16 14 54.4 (Z)
 iS 15 10.1 (ZN)

6 eiP C 00 06 54.5 (Z)
 e(S) 07 40.6 (N')

eP 00 52 00.8 (Z)
 iS 52.4 (Z)

iP C 01 27 23.0 (Z)
 iS 38.1 (Z)

iP C 02 56 43.8 (Z)
 eS 57 11.2 (Z)

eiP 03 40 13.1 (Z)
 iS 24.8 (ZNE)

iP D 04 37 33.9 (Z)
 iS 46.5 (ZE)

eiP 05 01 33.3 (Z)
 eiP 05 17 38.3 (Z)

iP C 05 22 32.0 (Z)
 i(S) 57.9 (Z)

eiP 06 59 00.4 (Z)
 eS 50.9 (N)

ei(P) 07 33 24.3 (Z)

iP D 07 33 30.6 (Z)
 iS 34 49.0 (Z)

iP C 08 31 58.5 (Z)
 iS 32 27.7 (ZE)

ei(P) 14 18 51.7 (Z)

iP C 17 23 26.4 (Z)
 i(S) 48.7 (Z')

eP 19 30 29.4 (Z)
 e 35 59.9 (N')

e 39 53.9 (Z')

7 eiP 04 36 12.7 (Z)

7 iP C 05 16 51.1 (Z)
 iS 17 22.9 (NE)

eP 14 55 44.4 (Z)
 iS 56 24.4 (ZNE)

iP D 22 26 44.6 (Z)
 iS 59.9 (ZNE)

8 eP 01 57 32.7 (Z)
 eP 03 57 38.4 (Z)

iP D 04 47 46.4 (Z)
 iS 48 05.7 (ZNE)

eP 06 59 50.5 (Z)
 iS 07 00 42.3 (Z)

e(P) 07 52 04.5 (Z)

eP 08 18 16.7 (Z)
 iS 19 10.6 (E)

e(P) 10 29 16.5 (Z)
 iS 30 24.5 (N)

iP C 16 43 32.9 (Z)
 iS 49.4 (E)

iP C 20 03 26.7 (Z)
 iS 04 18.4 (Z)

iP D 20 25 24.2 (Z)
 iS 26 18.9 (E)

9 eiP C 00 27 28.3 (Z)
 e 35 07.0 (Z'N')

eP 03 12 53.6 (Z)
 iS 14 08.0 (ZN)

iP C 03 48 30.2 (Z)
 iS 33.8 (ZNE)

iP D 04 05 01.5 (Z)
 iS 29.1 (ZNE)

iP C 06 13 48.5 (Z)
 iS 53.8 (ZNE)

iP D 06 30 05.4 (Z)

ei(P) 06 57 23.6 (Z)

iP D 08 34 18.7 (Z)
 iS 35.5 (ZNE)

eiP 12 30 24.3 (Z)
 iS 37.8 (N)

10 eiP 02 17 28.6 (Z)
 iS 58.7 (Z)

iP C 02 24 46.9 (Z)
 iS 25 10.4 (ZNE)

eP 05 41 09.6 (Z)
 iS 15.5 (E)



10 iP D 05 50 01.7 (Z)
 iS 23.3 (ZE)
 iP C 06 57 52.9 (Z)
 iS 58 50.0 (ZNE)
 iP C 07 25 16.6 (Z)
 iS 36.4 (ZN)
 eP 07 41 03.7 (Z)
 iS 42 38.0 (Z)
 eP 10 14 03.5 (Z)
 e 26 28.0 (Z')
 e 44 26.0 (Z')
 iP C 15 49 29.9 (Z)
 iS 41.9 (ZNE)
 e(P) 16 32 26.2 (Z)
 i 37 23.5 (Z')
 e 57 34.9 (N'E')

11 eiP 04 29 15.3 (Z)
 iS 35.9 (E)
 eP 05 02 15.7 (Z)
 iS 43.3 (N)
 eP 05 32 52.9 (Z)
 iS 34 00.0 (N)
 eP 06 22 31.7 (Z)
 eS 23 17.0 (Z)
 i(P) C 14 22 31.8 (Z)
 iS 40.5 (ZN)
 eiP 21 22 20.4 (Z)
 iS 49.8 (ZE)
 iP D 22 49 44.9 (Z)
 i(S) 59.4 (Z)
 eP 22 59 19.7 (Z)
 e 23 09 49.9 (E')
 eL 29 31.0 (Z'E')

12 eiP 06 32 27.1 (Z)
 iS 44.5 (Z)
 iP C 08 02 54.6 (Z)
 i 03 02.7 (Z)
 i(S) 57.0 (Z)
 ei(P) 13 57 57.2 (Z)
 iS 58 10.4 (N)
 eiP 19 11 48.9 (Z)

13 iP C 00 07 54.7 (Z)
 eS 08 30.7 (N)
 iP C 01 45 44.9 (Z)
 iS 46 44.4 (E)
 eP 07 43 03.1 (Z)
 eS 33.1 (Z)

13 iP C 08 27 31.5 (Z) T:01.3 A:08.2
 i 30 13.8 (Z)
 e 32 46.0 (N')
 eL 36 52.0 (N'E')
 iP C 08 36 18.4 (Z) T:01.1 A:02.4
 iP C 09 23 16.3 (Z)
 iS 42.0 (Z)
 iP D 09 31 44.8 (Z)
 iS 32 11.1 (Z)
 eiP 12 07 27.5 (Z)
 iS 44.1 (NE)
 eiP 15 00 47.7 (Z) T:01.0 A:06.3
 iP C 16 41 31.3 (Z)
 iS 46.9 (E)
 eP 20 20 14.4 (Z)
 eS 55.0 (ZE)

14 iP 01 51 14.0 (Z)
 iS 52 28.5 (ZZ'N'E')
 i(P) 03 13 44.3 (Z)
 iS 14 21.8 (ZNE)
 iP C 11 28 21.1 (Z)
 iS 40.0 (E)
 eP 15 14 37.7 (Z)
 iS 56.7 (E)
 eiP 16 37 55.1 (Z)
 iS 38 19.2 (Z)
 eiP D 20 12 22.3 (Z) T:00.8 A:08.0

15 iP D 03 03 54.5 (Z)
 iS 04 27.0 (N)
 eP 04 26 16.2 (Z)
 iS 28 19.7 (Z)
 iP D 06 23 36.3 (Z)
 iS 52.0 (ZNE)
 eiP C 08 09 18.0 (Z)

16 e(P) 03 28 42.9 (Z)
 e 29 25.2 (ZN)
 iP D 04 02 28.0 (Z)
 iP D 05 02 38.3 (Z)
 eS 53.2 (ZN)
 iP C 09 59 06.8 (Z)
 iS 30.6 (ZNE)
 e(P) 15 39 53.9 (Z)
 iP D 16 54 09.6 (Z)
 iS 22.1 (ZNE)
 iP C 22 54 01.9 (Z)
 iS 55 10.3 (ZE)

17	iP	D 01 49	48.2 (Z)		19	iP	C 07 27	22.5 (Z)	
	iS	50	03.5 (ZNE)			iS	28	46.6 (E)	
	eP	05 33	20.6 (Z)			iP	C 16 43	21.9 (Z)	
	iS	34	31.8 (ZN)			i(S)		56.4 (Z)	
	eiP	10 46	55.0 (Z)			eP	19 26	16.6 (Z)	
	iP	D 16 41	44.9 (Z)			eiP	D 19 29	31.8 (Z)	
	iS		59.5 (Z)			i	30	19.4 (Z)	T:01.3 A:03.0
	iP	D 18 01	20.1 (Z)			eP	23 53	03.5 (Z)	
	iS		25.3 (ZNE)		20	iP	C 02 12	26.7 (Z)	
	eP	20 38	08.9 (Z)			iS		45.0 (ZN)	
	e	39	19.9 (ZN)			iP	D 02 18	12.4 (Z)	
	e(S)		33.2 (ZNE)			iS		27.6 (ZN)	
	iP	D 20 58	05.5 (Z)			eiP	C 04 39	39.2 (Z)	
	iS		19.4 (ZZ'N'EE')			iP	C 04 40	53.0 (Z)	
	iP	D 23 33	26.0 (Z)			i(S)	41	43.2 (N)	
	iS		30.8 (ZE)			iS		48.6 (N)	
18	e(P)	02 14	12.9 (Z)			iP	C 05 48	46.8 (Z)	
	eP	05 55	59.4 (Z)			i	49	04.7 (Z)	
	eiP	08 51	08.9 (Z)			iS		23.9 (ZE)	
	iS	52	04.1 (Z)			iP	C 07 44	44.5 (Z)	
	eiP	09 54	30.7 (Z)			iS	45	10.9 (N)	
	iS		51.4 (E)			iP	C 09 09	23.4 (Z)	
	eiP	C 10 22	53.5 (Z)	T:00.9 A:01.4		iS	10	10.3 (E)	
	iP	C 11 18	12.9 (Z)			eP	11 02	50.4 (Z)	T:01.0 A:01.7
	iS	19	07.5 (Z)			eL	10	32.0 (N')	
	iP	13 08	50.5 (Z)			eL	11	57.0 (Z')	
	iS		54.5 (ZNE)			iP	C 11 47	25.2 (Z)	
	iP	C 16 38	01.7 (Z)			i(S)		41.9 (E)	
	iS		17.0 (ZE)			iP	C 12 47	48.4 (Z)	
	iP	C 21 42	23.3 (Z)			iS	48	07.1 (ZE)	
	iS		56.9 (ZE)			iP	D 12 53	42.5 (Z)	
	eiP	D 22 21	40.6 (Z)			iS	54	00.3 (ZE)	
	i	22	21.2 (Z)	T:01.5 A:04.0		iP	D 13 30	18.6 (Z)	
	e	27	54.9 (E')			eS	36	15.8 (N')	
	e(L)	28	50.0 (Z')	T:26.0 A:11.0		i	39	09.0 (Z'N'E')	T:30.0 A:25.5
19	e	02 01	13.0 (Z')			iP	C 20 03	36.4 (Z)	T:01.0 A:04.6
	e	18	40.0 (Z'N')			eS	07	40.0 (E')	
	eL	32	00.0 (E')			iP	C 20 40	26.7 (Z)	
	eL	43	19.0 (E')	T:35.0 A:06.5		iS		42.2 (ZN)	
	iP	D 04 18	10.0 (Z)		21	iP	D 03 41	48.6 (Z)	
	iS		34.9 (ZNE)			iS	42	04.1 (ZNE)	
	eP	05 00	17.7 (Z)			e(L)	05 46	52.7 (Z'N')	T:26.0 A:10.0
	eS	01	48.0 (E)			eL	58	39.7 (Z')	
	eiP	05 25	12.4 (Z)			iP	05 54	45.7 (Z)	
						iS	55	12.2 (ZNE)	



21 eP 06 02 50.7 (Z)
 iS 03 28.5 (ZNE)
 iP 12 33 10.9 (Z)
 iS 35.7 (E)
 eP 16 36 45.0 (Z)
 iS 37 00.6 (ZE)
 iP D 23 06 14.5 (Z)
 iS 32.0 (E)

22 eiP C 03 59 41.3 (Z) T:00.9 A:06.4
 eP 04 22 56.3 (Z)
 iS 23 26.1 (ZE)
 eP 07 47 00.7 (Z)
 eS 34.7 (ZNE)
 eiP 08 55 07.5 (Z) T:01.2 A:03.9
 iP C 09 37 55.4 (Z)
 iS 38 15.1 (NE)
 eP 18 57 41.2 (Z)
 iS 58 26.2 (NE)
 eP 19 50 54.6 (Z)
 eiP 20 14 22.8 (Z)
 iS 28.1 (N)

23 iP D 02 45 17.3 (Z)
 iS 36.7 (E)
 eiP C 02 51 11.8 (Z)
 iS 30.9 (ZE)
 eP 03 49 54.8 (Z)
 iS 50 46.8 (Z)
 iP D 05 13 49.9 (Z)
 iS 14 29.8 (N)
 eP 05 31 36.4 (Z)
 iS 32 40.4 (E)
 eiP 06 06 02.7 (Z)
 eiP 11 47 25.2 (Z)
 iS 48 09.0 (E)
 iP D 12 31 28.2 (Z)
 eP 19 04 11.6 (Z)
 iS 05 04.9 (Z)

24 eiP D 03 36 25.7 (Z)
 iS 44.7 (ZN)
 eP 04 46 07.1 (Z)
 eiP 05 26 57.0 (Z) T:01.3 A:02.3
 eP 06 02 31.7 (Z)
 iS 03 19.5 (N)

24 eP 06 18 49.4 (Z)
 iS 19 02.5 (NE)
 eP 08 16 54.6 (Z)
 eiP 14 45 36.5 (Z)
 iS 58.3 (E)
 iP D 18 10 55.5 (Z)
 iS 11 21.9 (N)
 iP C 20 58 30.4 (Z)
 iS 59 00.1 (ZE)

25 eiP C 00 53 46.5 (Z)
 iS 54 21.6 (N)
 iP D 06 55 36.1 (Z)
 iS 56 01.4 (ZE)
 iP D 08 45 51.6 (Z) T:01.2 A:03.
 i 46 18.6 (Z)
 iP C 09 25 44.9 (Z)
 iS 52.4 (ZNE)
 e 12 02 51.5 (Z')
 e 46 45.5 (Z')
 iP D 13 31 06.6 (Z)
 iS 27.3 (ZNE)

26 iP D 02 03 17.9 (Z) T:00.9 A:01.
 iP C 02 13 12.7 (Z)
 iS 37.0 (E)
 eP 03 06 57.9 (Z)
 iS 07 43.9 (N)
 iP D 05 19 29.0 (Z)
 iS 33.4 (ZNE)
 e 06 40 59.7 (N')
 eiP 07 05 01.2 (Z)
 eP 08 44 02.6 (Z)
 i 45 47.6 (N)
 iP D 09 26 56.8 (Z)
 iS 27 38.4 (E)
 iP D 12 00 37.1 (Z) T:01.0 A:02.
 i 44.3 (Z) T:01.0 A:03.

eiP D 15 02 20.8 (Z)
 iS 36.7 (E)
 i(P) 21 11 15.9 (Z)
 eiP 21 55 02.0 (Z)
 i(S) 56 12.0 (E)
 27 iP D 01 01 29.3 (Z)
 iS 35.6 (ZE)
 eP 03 00 41.2 (Z)
 iS 02 18.8 (Z)

27 iP C 04 50 50.0 (Z)
 eS 52 08.8 (E')

eP 05 12 33.6 (Z)
 iS 13 58.6 (N)

eP 07 34 40.5 (Z)
 eP 07 59 04.6 (Z)

eiP D 09 59 46.3 (Z)
 iP 23 11 20.2 (Z)
 iS 38.8 (E')

28 eiP D 05 42 57.8 (Z)
 iS 43 47.0 (Z)

iP C 06 34 55.2 (Z)
 iS 35 19.3 (ZE)

iP C 08 34 45.8 (Z) T:01.0 A:03.8

iP D 10 52 00.5 (Z)
 iS 53 24.3 (E)

iP D 13 04 20.9 (Z)
 iS 40.4 (N)

29 eiP C 04 45 42.5 (Z)
 eP 07 01 05.2 (Z)
 iS 53.1 (Z)

iP C 08 12 00.1 (Z)
 i 06.2 (Z) T:00.7 A:11.5

iP D 08 48 20.6 (Z)
 iS 39.4 (ZE)

eP 09 32 41.8 (Z)
 i 51.0 (Z)
 iS 33 36.4 (E)

eP 09 56 37.0 (Z)
 iS 58 09.6 (E)

iP D 21 07 16.3 (Z)
 iS 21.1 (ZNE)

iP D 21 56 36.1 (Z)
 iS 40.6 (ZNE)

iP D 22 10 13.3 (Z)
 iS 39.4 (E)

30 eiP 00 10 20.9 (Z)
 iS 52.9 (N)

eiP 04 08 19.6 (Z)
 i(S) 09 52.0 (E)

eP 05 40 03.7 (Z)
 iS 41 35.8 (E)

iP C 08 59 04.5 (Z)
 iS 20.2 (ZN)

iP C 14 06 04.9 (Z)
 iS 31.0 (N)

30 eiP 22 07 52.5 (Z)
 iS 08 40.6 (ZN)

31 iP D 01 24 19.9 (Z)
 iS 29.9 (E)

iP C 03 10 08.2 (Z)
 iS 21.2 (ZNE)

iP D 04 47 16.1 (Z)
 iS 35.5 (Z)

eP 05 54 47.5 (Z)
 eS 55 45.7 (Z)

iP C 07 49 05.6 (Z)
 iS 56.6 (Z)

iP D 08 02 54.2 (Z)
 iS 59.0 (ZN)

eiP 08 24 26.6 (Z)
 iS 48.3 (Z)

e(P) 13 47 05.0 (Z)
 iS 16.6 (ZNE)

iP D 15 26 05.6 (Z)
 iS 31.4 (Z)

iP D 16 53 39.1 (Z)
 iS 51.3 (ZNE)

eP 18 04 06.9 (Z)
 iS 26.9 (Z)

iP C 20 52 16.3 (Z)
 iS 45.3 (Z)

eiP 21 22 22.5 (Z)
 iS 23 10.2 (Z)

iP 22 19 25.0 (Z)
 i 27.5 (Z)
 e(S) 20 11.3 (N')

C : compresión
 D : dilatación

Agosto 12, 1966



LECTURAS EN LA ESTACION SISMOGRAFICA DE AREQUIPA

(ARE, WWSSS)

Coordenadas de la estación : Latitud : 16°27'43.5" Sur
 Longitud : 71°29'28.6" Oeste
 Altitud : 2,451.6 mts.

Instrumentos : Benioff, Período Corto (Z,N,E).-- Amplificación: 50,000
 Sprengnether, P. Largo (Z',N'E').-- Amplificación: 1,500

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1	iP	C 01	41	40.9	(Z)	2	eP	08	29	36.0	(Z)	
	iS		42	18.2	(N)		iS		30	25.8	(E)	
	i(P)	C 03	37	55.5	(Z)		ei(P)	16	03	30.8	(Z)	
	iS		38	06.1	(ZNE)		eP	19	08	19.1	(Z)	
	iP	D 04	15	08.5	(Z)	3	iP	C 07	40	53.2	(Z)	
	iS		16	04.3	(N)		eS		41	09.2	(Z)	
	eiP		09	45	58.8	(Z)		eiP	10	07	40.0	(Z)
	iS		46	33.3	(N)		iS			52.7	(ZNE)	
	iP	C 09	51	06.3	(Z)		iP	C 16	32	54.1	(Z)	
	iS			26.0	(Z'N'E')		i(S)		33	09.4	(Z)	
	eiP		12	09	24.7	(Z)		iP	C 16	47	58.6	(Z)
	iP	D 14	10	11.9	(Z)		iS		48	23.5	(Z)	
	iS		11	24.9	(E)	4	iP	C 11	19	17.2	(Z)	
	iP	C 15	56	51.8	(Z)		iS			21.0	(ZNE)	
	iS		57	30.7	(E)		iP	C 13	05	45.9	(Z)	
	eiP		16	33	43.2	(Z)		iS		06	11.4	(ZN)
	iS				58.5	(Z)		eP	17	00	25.5	(Z)
	eP		19	29	18.5	(Z)		iS		01	09.3	(Z)
	e		20	13	09.2	(N')	5	iP	D 00	51	29.4	(Z)
	e			34	22.5	(Z')		iS		52	29.7	(E)
	iP		20	50	28.7	(Z)		iP	D 05	34	58.1	(Z)
	eP		21	22	23.1	(Z)		iS		35	13.6	(Z)
	i				33.3	(Z')		iP	D 06	58	01.1	(Z)
	e			41	28.1	(N')		iS			24.7	(ZNE)
	e			49	46.1	(N'E')		eP	07	17	12.5	(Z)
	eL		22	03	50.1	(N')		iS			38.7	(N)
	eiP		22	42	20.1	(Z)		iP	C 11	15	03.0	(Z)
	iS				50.4	(Z)		iS			15.5	(N)
2	iP	D 00	30	07.3	(Z)		iP	D 15	53	20.4	(Z)	
	iS				26.3	(ZE)		iS		54	15.8	(ZNE)
	iP	C 01	07	22.2	(Z)		iP	C 16	37	46.0	(Z)	
	iS		08	07.9	(Z)		iS		38	00.1	(Z)	
	eP		05	49	03.7	(Z)		iP	C 20	50	55.8	(Z)
	iS				57.0	(Z)		iS		51	06.0	(ZNE)
	eP		06	27	37.2	(Z)	6	iP	C 05	28	01.7	(Z)
	eS			28	33.4	(E)		iS			20.4	(ZN)
	iP	D 06	35	57.5	(Z)							
	iS			36	02.6	(ZNE)						

6	iP	D 09 45	31.9 (Z)				
	iS		55.1 (ZNE)				
	iP	C 10 27	20.8 (Z)				
	iS		28 07.8 (E)				
	eP	10 38	30.1 (Z)				
	iS		39 16.8 (ZNE)				
	eiP	14 40	59.6 (Z)				
	iP	C 20 30	05.6 (Z)				
	iS		20.9 (Z)				
7	iP	D 01 56	31.9 (Z)				
	iS		46.3 (ZNE)				
	eiP	C 02 31	10.7 (Z)				
	e		54.9 (Z')				
	e	38 16.9	(N'E')				
	e	41 19.9	(N'E')				
	e	46 52.9	(E')				
	eL	58 17.9	(N')				
	iP	D 03 24	51.2 (Z)				
	iS		56.4 (ZNE)				
	iP	C 04 11	53.4 (Z)				
	iS		57.4 (ZNE)				
	eiP	04 14	43.8 (Z)				
	i(S)		16 18.6 (E)				
	iP	C 07 03	29.2 (Z)				
	eS		04 00.6 (E)				
	iP	C 08 32	47.3 (Z)				
	iS		33 22.1 (Z)				
	iP	C 09 58	03.3 (Z)				
	iS		08.5 (Z)				
	iP	C 10 48	13.1 (Z)	T:00.9	A:02.5		
	eiP	15 29	23.8 (Z)				
	eS		30 51.4 (Z)				
	i(P)	D 16 46	32.2 (Z)				
	eP	17 46	53.2 (Z)				
	i(S)		55 29.3 (N'E')				
	e	18 03	06.3 (E')				
	eL		05 03.3 (N'E')				
	iP	D 20 22	46.6 (Z)				
	iS		23 02.0 (Z'N'E')				
	eiP	20 29	05.1 (Z)				
	iS		25.6 (ZE)				
	eP	21 07	14.6 (Z)				
	i(S)		08 02.8 (N)				
	i(P)	D 22 46	22.0 (Z)				
8	eiP	00 44	11.1 (Z)	T:00.9	A:05.6		
	eiP	00 57	03.4 (Z)				
8	eiP	01 27	34.7 (Z)				
	i(S)		30 08.9 (ZNE)				
	i(P)	D 02 04	39.1 (Z)				
	iP	D 04 06	18.3 (Z)				
	iS		31.8 (ZNE)				
	iP	C 06 20	40.9 (Z)				
	iS		54.5 (ZNE)				
	eP	06 45	04.3 (Z)				
	iP	C 08 11	44.7 (Z)	T:02.0	A:03.5		
	e		19 05.7 (Z'N'E')				
	e	24 30.7	(N')				
	eL		27 37.7 (Z'E')				
	eP	08 26	45.6 (Z)				
	iS		27 09.2 (N)				
	iP	C 09 29	52.4 (Z)				
	iS		30 13.6 (E)				
	iP	C 10 00	08.2 (Z)				
	iS		02 09.4 (Z)				
	iP	D 10 15	11.5 (Z)	T:00.9	A:02.4		
	ei(P)	18 06	59.6 (Z)				
	iS		07 57.6 (ZE)				
	iP	C 19 35	39.5 (Z)				
	iS		55.4 (ZNE)				
	iP	D 20 35	41.3 (Z)				
	i(S)		37 03.8 (E)				
9	iP	D 00 16	00.9 (Z)				
	iS		16.1 (ZNE)				
	eiP	03 55	13.7 (Z)				
	iS		38.9 (ZNE)				
	iP	D 05 18	37.0 (Z)				
	eS		51.8 (ZNE)				
	eP	05 22	06.8 (Z)				
	eS		41.8 (ZNE)				
	eP	06 28	58.8 (Z)				
	eS		29 38.0 (ZNE)				
	iP	C 10 23	22.1 (Z)	T:01.0	A:01.7		
	iP	C 10 33	50.0 (Z)				
	iS		34 26.1 (Z)				
	eP	11 18	34.5 (Z)	T:01.2	A:02.6		
	e		23 27.0 (N')				
	e	29 06.5	(Z')				
	iP	C 15 03	12.4 (ZZ')				
	iS		41.2 (Z'N'E')				
	eP	22 32	25.5 (Z)				
	iS		33 54.2 (ZNE)				

10 eiP	02 20 27.9 (Z)		12 iP	C 07 07 04.0 (Z)
eS	21 41.1 (E)		iS	17.7 (NE)
eP	02 57 53.8 (Z)		eP	07 44 16.9 (Z)
eS	58 22.3 (ZNE)		e(P)	09 42 05.1 (Z)
eiP	05 14 32.4 (Z)		eP	10 30 15.6 (Z)
i	57.6 (Z)		iS	57.6 (Z)
e	45 29.8 (Z')		eP	10 37 27.1 (Z)
eiP	05 31 15.2 (Z)	T:01.2 A:01.6	i	40 23.8 (E)
eP	06 19 36.9 (Z)		iP	C 15 21 43.6 (Z)
i(P)	D 09 56 58.1 (Z)		iS	57.7 (ZNE)
iP	C 57 16.0 (Z)		eP	23 32 30.3 (Z)
iS	58 14.8 (N)		iS	33 14.5 (N)
iP	C 17 42 05.1 (Z)		13 iP	D 00 21 40.9 (Z)
eS	43 08.7 (E)		iS	22 30.6 (Z)
iP	D 18 19 00.8 (Z)		eP	02 11 17.4 (Z)
eS	36.6 (N)		eS	13 31.9 (E)
iP	C 21 27 18.6 (Z)		eP	04 31 52.1 (Z)
iS	28 18.6 (ZN)		iS	32 20.5 (ZN)
11 eiP	04 31 09.9 (Z)		eiP	C 06 16 05.3 (Z)
iS	43.4 (ZNE)		eiP	06 43 33.0 (Z)
iP	D 05 26 16.0 (Z)	T:01.4 A:02.7	e	45 07.0 (Z)
eL	56 39.8 (Z'N'E')	T:28.0 A:10.0	eiP	08 02 53.3 (Z)
e(P)	09 54 19.0 (Z)		i(P)	D 11 55 53.1 (Z)
iP	C 10 09 58.6 (Z)		iS	59.0 (ZNE)
e	12 12.6 (Z)		iP	D 15 03 59.7 (Z)
eiP	11 50 55.3 (Z)		iS	04 45.9 (E)
iS	51 13.0 (ZNE)		eiP	15 16 13.9 (Z)
iP	C 15 11 13.0 (Z)		iS	17 15.4 (ZE)
i(S)	38.7 (ZE)		iP	21 58 31.2 (Z)
i(P)	16 11 42.3 (Z)		iS	45.7 (Z)
iS	13 56.5 (Z)		14 eP	03 37 37.9 (Z)
eiP	16 40 21.9 (Z)		iP	C 04 18 25.1 (Z)
e	42 38.7 (Z)		iS	41.7 (ZNE)
iP	D 18 34 22.4 (Z)		iP	C 04 54 13.2 (Z)
i(S)	33.6 (ZNE)		iS	32.8 (E)
iP	D 20 04 06.3 (Z)		iP	C 06 47 34.2 (Z)
iS	15.3 (ZNE)		iS	56.7 (ZE)
eiP	23 49 39.2 (Z)		iP	C 07 47 35.7 (Z)
iS	50 01.5 (ZNE)		iS	48 18.7 (Z)
12 e(L)	00 09 53.0 (Z')		eP	08 02 05.9 (Z)
iP	D 02 31 34.9 (Z)		iP	D 09 15 27.5 (Z)
iS	49.3 (ZNE)		iS	43.1 (Z)
iP	C 06 59 16.7 (Z)		iP	D 09 55 47.8 (Z)
iS	29.7 (E)		iS	56 03.5 (ZNE)

14 eiP	13130408	48.9 (Z)		16 iP	D 14 09	00.0 (Z)	
iS	41	35.7 (N)		eS		18.2 (Z)	
i(P)	C 23 24	47.1 (Z)		iP	14 53	42.6 (Z)	
eS	25	49.0 (E)		iS		47.0 (ZN)	
15 eiP	02 09	38.8 (Z)	T:00.9 A:01.8	e(P)	16 20	50.0 (Z)	
i		49.0 (Z)	T:00.9 A:05.5	e	18 23	33.3 (Z')	
eP	02 20	13.8 (Z)		e	20 14	21.2 (Z')	
eiP	C 02 35	05.4 (Z)		e	19	39.2 (N')	
i		23.7 (Z)	T:01.0 A:11.8	e	29	59.2 (N')	
iP	D 02 44	04.9 (Z)		iP	D 22 32	57.3 (Z)	
iS		22.7 (Z')		iS	33	14.0 (ZNE)	
eiP	C 03 06	19.3 (Z)		17 iP	C 05 12	31.6 (Z)	
i		47.4 (Z)	T:01.0 A:03.5	iS		36.8 (ZNE)	
e	20	59.9 (E')		eiP	06 29	56.1 (Z)	
e	31	27.9 (N')		eiP	07 31	48.5 (Z)	
iP	D 03 38	51.6 (Z)	T:00.9 A:03.1	iS	32	20.9 (E)	
e(P)	08 06	49.0 (Z)		iP	08 26	59.6 (Z)	
eP	08 49	24.3 (Z)		iS	27	21.5 (N)	
iP	D 08 49	56.9 (Z)		iP	C 09 01	01.1 (Z)	
i(S)	50	45.2 (Z)		iS		14.3 (Z)	
e	11 24	13.5 (Z')		iP	C 20 13	09.3 (Z)	
e	28	50.5 (Z')		i		24.2 (Z)	T:01.0 A:06.0
e	32	59.5 (E')		iP	22 37	15.2 (Z)	
eP	15 17	41.7 (Z)		iS		21.1 (ZZ'NN'EE')	
iP	C 16 42	23.8 (Z)		18 iP	00 40	09.7 (Z)	
eS		38.8 (N)		iS		14.2 (ZNE)	
16 iP	C 00 27	49.3 (Z)		iP	C 08 04	27.5 (Z)	
iS	28	03.4 (ZN)		iS	05	25.2 (ZNE)	
iP	C 01 31	22.2 (Z)		iP	D 09 43	34.6 (Z)	
iS		27.9 (ZNE)		eiP	10 40	19.3 (ZZ')	T:01.1 A:04.5
iP	C 01 54	01.3 (Z)		i	42	41.5 (Z)	T:01.2 A:03.2
iS		33.9 (ZN)		i	46	01.9 (Z'N'E')	
iP	D 02 35	23.9 (Z)		e	48	49.1 (N'E')	
i		29.6 (Z)	T:01.4 A:07.7	iL	52	52.5 (Z')	T:28.0 A:63.0
eiP	02 55	24.9 (Z)		iP	D 11 55	41.0 (Z)	
i	59	20.0 (Z)		iP	D 12 46	47.6 (Z)	
iP	C 03 49	13.7 (Z)		i(S)		50.3 (ZNE)	
iS		26.5 (ZNE)		eP	14 22	29.4 (Z)	
ei(P)	06 12	15.3 (Z)	T:01.1 A:01.9	i(S)		38.7 (ZNE)	
iP	06 26	24.4 (Z)		eP	14 53	55.4 (ZZ')	
iS		39.4 (Z)		i	57	49.4 (ZZ')	
iP	D 08 10	05.8 (Z)		iP	C 16 03	46.1 (Z)	
iS		21.1 (ZNE)		iP	C 16 36	19.0 (Z)	
iP	C 10 39	26.1 (Z)		iS		36.8 (Z)	
iS		30.7 (ZNE)		eiP	18 15	55.5 (Z)	
				iS	16	45.6 (Z)	



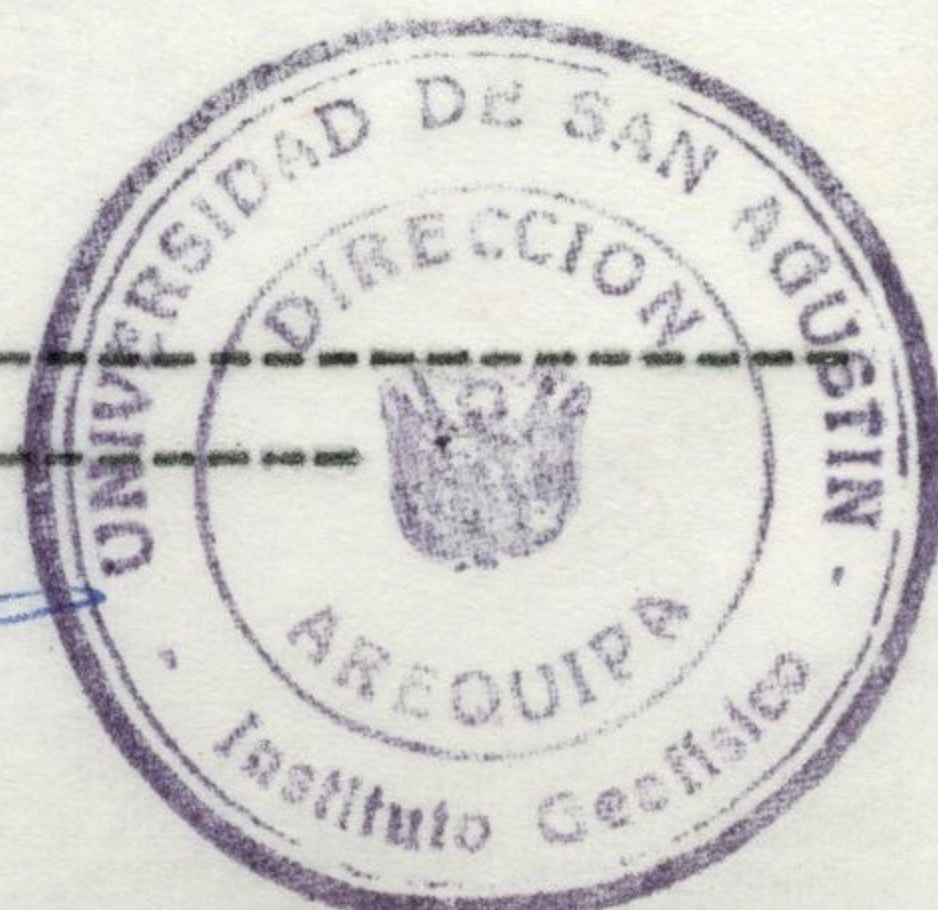
18	iP	D 22 27	05.3 (Z)		21	iP	D 03 15	30.3 (Z)	
	iS		10.0 (ZNE)			iS		42.1 (ZNE)	
	iP	D 23 39	01.2 (Z)			iP	D 05 20	23.6 (Z)	
	iS		16.1 (ZNE)			e	21 05.5	(Z)	T:01.2 A:03.4
19	iP	D 00 49	28.7 (Z)			iP	C 06 55	21.7 (Z)	
	iS		48.8 (E)			iS		40.6 (N)	
	eP	02 28	47.7 (Z)			iP	C 08 48	44.6 (Z)	
	iS		30 21.0 (N)			iS		49 13.1 (ZNE)	
	iP	D 02 59	32.6 (Z)	T:01.0 A:05.5		iP	D 17 33	03.1 (Z)	
	iP	C 05 01	52.3 (Z)			iS		19.8 (ZN)	
	iS		58.3 (ZNE)			iP	C 23 15	39.9 (Z)	
	eP	05 54	44.1 (Z)			iS		54.0 (E)	
	iS		55 06.9 (E)		22	iP	C 02 39	55.3 (Z)	
	iP	D 07 38	34.4 (Z)			iS		40 09.5 (Z)	
	iS		53.9 (NE)			eP	02 46	12.9 (Z)	
	iP	D 11 16	57.0 (Z)			iS		45.3 (Z)	
	iS		17 25.7 (E)			iP	C 05 25	56.2 (Z)	
	eP	12 40	55.7 (Z)			iS		26 13.5 (Z)	
	e	48 00.5	(N'E')	T:12.0 A:04.0		eP	06 26	37.1 (Z)	
	e(S)	49 14.5	(N'E')			eiP	06 50	13.2 (Z)	
	e	51 57.5	(Z')			iS		21.9 (ZNE)	
	eL	13 12	59.5 (N'E')	T:50.0 A:64.0		iP	C 10 52	17.8 (Z)	
	eL		51 53.5 (Z')	T:18.0 A:71.0		iS		52.5 (Z)	
	eiP	12 48	06.1 (Z)	T:01.0 A:06.0		iP	D 17 02	24.6 (Z)	
	eP	17 54	57.7 (Z)			i(S)		03 30.4 (E)	
	iS		55 20.5 (NE)			eiP	17 13	15.2 (Z)	
	iP	C 20 21	52.1 (Z)			iP	C 17 21	51.3 (Z)	
	iS		22 08.1 (NE)			e	18 08	44.2 (N')	
20	iP	D 00 19	56.0 (Z)			e		27 06.2 (N')	
	eiP	C 06 13	14.7 (Z)			eL		32 23.2 (Z')	
	iS		14 13.9 (N)			iP	D 17 42	32.6 (Z)	
	iP	D 07 46	47.9 (Z)			iS		46.8 (N)	
	i		52.8 (Z)	T:01.3 A:10.0		ei(P)	18 39	20.3 (Z)	
	i(P)	C 07 57	10.7 (Z)	T:00.9 A:01.9		i		30.3 (Z)	
	iP	D 08 46	25.5 (Z)			iP	C 19 02	45.7 (Z)	T:01.2 A:05.0
	i		47 01.6 (Z)						
	eiP	D 09 51	41.1 (Z)			23	iP	C 00 54	42.6 (Z)
	i		52 32.6 (Z)				iS		55 17.5 (ZNE)
	i		55 10.2 (Z)	T:01.4 A:03.3			iP	C 01 39	26.7 (Z)
	e	12 41	24.5 (N')				i(S)		41 17.3 (N)
	eL	49 56.5	(N'E')				iS		24.2 (E)
	eL	58 56.1	(E')	T:33.0 A:07.0			eiP	04 08	25.7 (Z)
	iP	D 18 10	16.4 (Z)				eP	06 28	32.2 (Z)
	iS		29.6 (NE)				i(P)	C 10 16	30.9 (Z)
	ei(P)	23 48	06.3 (Z)				eP	10 51	12.7 (Z)
	eS		48.2 (Z)				iS		57.3 (ZNE)

23 iP D 16 01 37.2 (Z)
 iS 48.9 (ZNE)
 iP D 17 27 02.1 (Z)
 iS 07.0 (ZNE)
 iP D 18 16 15.8 (Z)
 iS 28.4 (ZNE)
 eP 20 20 52.9 (Z)
 iS 21 08.6 (ZN)
 24 eP 01 50 04.1 (Z)
 iP C 03 59 49.8 (Z)
 iS 04 00 51.5 (ZNE)
 iP C 04 22 11.6 (Z)
 iS 42.4 (ZNE)
 eP 05 58 41.2 (Z)
 i 44.1 (Z)
 iS 59 18.4 (ZNE)
 iP C 07 18 18.7 (ZZ')
 iS 19 04.4 (E')
 iP D 20 13 45.2 (Z)
 e(S) 14 18.1 (Z)
 iP C 20 21 44.2 (Z)
 iS 56.3 (ZNE)
 25 iP C 00 57 24.9 (Z)
 iS 44.4 (ZNE)
 eP 01 48 10.9 (Z)
 eP 02 04 26.9 (Z)
 eP 04 56 47.9 (Z)
 iS 57 30.0 (ZNE)
 eiP 06 42 10.0 (Z)
 i 43 05.0 (Z)
 eiP 08 23 12.0 (Z)
 i 37.5 (Z)
 iS 46.2 (ZNE)
 iP C 10 59 05.2 (Z)
 iS 21.7 (ZNE)
 iP C 14 40 27.6 (Z)
 iS 39.1 (ZN)
 iP C 17 44 36.3 (Z)
 iS 50.3 (ZNE)
 iP D 22 22 09.4 (Z)
 i 16.9 (Z)
 iS 23 17.9 (ZNE)
 eP 23 19 28.6 (Z)
 iP C 23 20 22.4 (Z)
 i 31.8 (Z)
 i(S) 21 33.0 (N')

26 eiP 00 17 21.9 (Z)
 i 31.1 (Z)
 iS 18 33.9 (ZNE)
 iP C 00 42 07.1 (Z)
 iS 11.4 (ZNE)
 iP C 01 15 35.0 (Z)
 iS 39.2 (ZNE)
 iP D 03 16 07.4 (Z) T:00.8 A:02.3
 iP D 06 09 20.8 (Z)
 iS 31.6 (ZNE)
 eiP 14 38 49.6 (Z)
 i 57.6 (Z)
 i 39 57.5 (Z)
 i(S) 40 09.4 (ZE)
 iP D 21 39 07.2 (Z)
 iS 34.3 (ZN)
 iP C 22 55 45.8 (Z)
 i(S) 56 01.6 (Z)
 iS 57 29.0 (ZNE)
 27 eiP 01 01 14.9 (Z)
 i(S) 02 30.5 (ZNE)
 i(S) 55.4 (Z)
 iP D 02 56 43.0 (Z) T:00.9 A:06.6
 iP D 03 29 03.9 (Z)
 iS 22.2 (N'E')
 iP D 04 21 08.5 (Z)
 eS 24.3 (ZNE)
 eP 04 26 30.7 (Z)
 eS 27 23.8 (NE)
 iP C 04 56 18.0 (Z) T:01.0 A:03.2
 iP D 05 22 19.2 (Z)
 e(S) 29.3 (NE)
 eP 06 18 22.7 (Z)
 iP D 13 58 08.2 (Z)
 eS 35.9 (ZNE)
 iP C 15 17 46.3 (Z)
 i(S) 18 35.8 (Z)
 i(S) 41.7 (ZN)
 eiP 15 45 16.3 (Z)
 iS 47 18.9 (E)
 iP C 16 43 46.9 (Z)
 iS 44 03.5 (ZNE)
 eP 19 38 49.1 (Z)
 eS 40 49.8 (ZNE)
 iP C 20 02 07.9 (Z)
 iS 26.0 (ZNE)

27 iP C 21 57 24.9 (Z)
iS 29.0 (ZNE)
iP C 22 57 02.7 (Z)
iS 26.1 (ZNE)
28 eP 04 29 07.5 (Z)
eP 04 55 22.8 (Z)
iS 38.5 (ZN)
iP C 06 43 55.9 (Z)
iS 44 24.7 (N)
eP 07 42 52.1 (Z)
eiP 10 21 15.8 (Z) T:01.0 A:09.0
i 23 52.0 (Z) T:00.9 A:02.4
iP C 11 17 15.2 (Z)
iS 29.1 (ZNE)
iP D 13 44 49.6 (Z)
iS 45 12.1 (NE)
iP 14 48 57.5 (Z)
iS 49 50.4 (ZNE)
iP D 15 57 24.6 (Z)
iS 58 08.6 (E)
iP D 18 15 47.9 (Z)
iS 16 02.7 (NE)
iP C 20 43 49.4 (Z)
iS 44 16.6 (NE)
eiP D 21 30 24.5 (Z)
iS 49.0 (Z)
29 iP C 01 00 42.9 (Z)
iS 01 08.0 (EE)
eP 01 30 16.9 (Z)
iS 31 14.9 (N)
iP C 05 48 43.7 (ZZ)
iS 49 07.1 (Z'E)
eP 05 54 38.0 (Z)
iS 55 02.8 (N)
eP 06 16 15.2 (Z)
iS 33.5 (NE)
iP C 08 06 28.8 (Z)
iS 07 19.5 (ZE)
eP 09 10 13.6 (Z)
iS 30.1 (ZN)
eP 11 18 01.0 (Z)
iS 17.1 (E)
iP C 14 45 35.0 (Z)
iS 46 01.3 (NE)
eP 16 15 04.0 (Z)
iS 37.9 (NE)

29 iP D 17 33 46.2 (Z)
iS 34 05.0 (E)
eiP D 19 36 53.1 (Z)
30 iP D 00 55 22.0 (Z)
iS 57 06.8 (NE)
eP 05 37 36.3 (Z)
iS 56.0 (N)
eiP 06 30 07.9 (Z) T:00.9 A:04.0
iP D 13 41 58.4 (Z)
iS 42 14.9 (Z'N'E)
iP D 15 53 11.3 (Z)
iS 54 28.8 (Z'N'E)
iP C 17 52 37.3 (Z)
iS 53.1 (N)
eiP 20 34 24.4 (Z)
iP D 22 45 12.3 (Z)
iS 22.6 (ZN)
31 eiP C 02 22 59.4 (Z)
eS 23 28.8 (ZNE)
eiP 04 57 53.3 (Z)
e(P) 05 05 25.3 (Z)
e 55.1 (Z)
i 06 07.5 (Z)
eiP D 05 23 32.3 (Z)
e(P) 05 23 58.8 (Z)
eP 08 28 12.6 (Z)
iS 29 45.6 (ZNE)
iP D 09 57 47.1 (Z)
iS 58 40.1 (NE)
iP D 10 15 24.0 (Z)
iS 16 11.4 (N)
iS 20.4 (N)
eiP C 12 23 30.2 (Z)
iS 54.6 (Z)
iP D 13 00 23.9 (Z)
iS 41.7 (ZE)
iP 19 33 01.1 (Z)
iS 19.4 (Z)
eiP C 19 39 44.4 (Z)
iS 58.7 (N)
eiP C 19 43 54.1 (Z)
eiP C 23 44 53.7 (Z)



LECTURAS EN LA ESTACION SISMOGRAFICA DE AREQUIPA

(ARE, WSSS)

Coordenadas de la estación :
 Latitud : 16°27'43.5" Sur
 Longitud : 71°29'28.6" Oeste
 Altitud : 2,451.6 mts.

Instrumentos :
 Benioff, Período Corto (Z,N,E).- Amplificación: 50,000
 Sprengnether, P. Largo (Z',N',E').- Amplificación: 1,500

SETIEMBRE, 1966

1	eIP	00 26	56.2 (Z)		4	eIP	D 00 32	12.4 (Z)	
	i		58.2 (Z)			iS		55.0 (ZNE)	
	i(S)	27	32.8 (ZNE)			eIP	C 05 38	35.0 (ZZ')	
	iS		35.2 (ZNE)			i(S)	40	49.7 (Z'H'E')	T:10.0 A:60.0
	iP	D 00 35	26.4 (Z)			eP	07 25	43.2 (Z)	
	eS		46.0 (ZNE)			e	27	33.0 (Z)	
	iP	C 06 08	02.7 (Z)			eIP	D 09 07	08.1 (Z)	
	iS		30.8 (ZNE)			eS		38.6 (E)	
	eP	08 08	06.5 (Z)			eIP	D 10 01	02.1 (Z)	
	eS		26.7 (ZNE)			eP	19 08	30.7 (Z)	
	eIP	09 16	58.8 (Z)			iS	09	02.3 (Z)	
	eP	10 03	08.6 (Z)			eP	22 19	38.3 (Z)	
	iS	04	09.1 (ZNE)			e	24	41.0 (E')	
	eP	14 28	46.4 (Z)			e	25	33.0 (Z')	
	eS	29	25.5 (ZNE)			e	28	27.0 (E')	
	eP	14 35	50.6 (Z)		5	iP	C 00 40	07.1 (Z)	
	eP	17 18	31.2 (Z)			i		22.2 (Z)	
	eS	19	11.1 (ZNE)			iS		33.1 (ZNE)	
	iP	C 19 41	25.1 (Z)			eP	01 36	42.5 (Z)	
	iS		37.1 (ZNE)			eS	37	36.9 (ZNE)	
2	iP	C 02 23	03.6 (Z)			iP	C 03 06	32.2 (Z)	
	iS		57.4 (NE)			iS	07	37.0 (ZNE)	
	eIP	C 06 28	20.0 (Z)			iP	D 04 14	55.0 (Z)	
	iS	29	02.2 (E)			eS	15	13.8 (NE)	
	i(S)	08 11	48.6 (H'E')			iP	C 08 33	40.3 (Z)	
	e	14	13.6 (H'E)			iS	34	42.6 (ZNE)	
	i	15	55.6 (Z')	T:24.0 A:34.0		iP	D 12 01	28.7 (Z)	
	iP	D 16 30	40.0 (Z)			iS	02	00.8 (NE)	
	iS		57.3 (Z)			eP	12 34	37.5 (Z)	
3	iP	C 07 28	41.9 (Z)			eS	35	05.5 (NE)	
	iS		52.2 (ZNE)		6	iP	C 00 27	08.5 (Z)	
	iP	D 11 47	59.8 (Z)			iS		39.0 (ZNE)	
	iS	48	17.8 (N)			iP	C 10 00	36.2 (Z)	
	eIP	D 12 17	55.9 (Z)			iS		54.5 (ZN)	
	i	18	14.5 (Z)			iP	D 11 58	19.9 (Z)	
	e	16 44	57.3 (Z'E')			iS		34.3 (ZNE)	

6 1P C 15 55 07.6 (Z)
 1S 16.8 (E)
 1P C 16 11 51.3 (Z)
 1S 12 08.3 (N)
 7 1P D 07 22 14.6 (Z)
 1S 19.9 (ZNE)
 eP 10 15 56.3 (Z)
 1S 16 07.1 (ZNE)
 eP 10 22 36.3 (Z)
 eP 12 09 43.9 (Z)
 1 12 21.6 (Z) T:01.0 A:03.5
 eP 14 55 45.4 (Z)
 1S 56 08.8 (ZE)
 e1P D 16 14 15.3 (Z)
 e1P D 16 49 14.9 (Z)
 1S 43.7 (ZNE)
 1P D 19 10 42.9 (Z)
 1S 48.6 (Z)
 1P C 20 35 36.3 (Z)
 1S 37 03.4 (ZNE)
 8 e(P) 00 07 20.0 (Z)
 1S 08 26.0 (ZNE)
 1P C 04 01 02.4 (Z)
 1S 02 13.1 (ZN)
 e1P C 06 12 18.7 (Z)
 1S 33.7 (NE)
 eP 08 30 48.6 (Z)
 1P D 50.5 (Z)
 1S 32 21.1 (NN'EE')
 1P D 10 15 43.8 (Z)
 1S 16 15.5 (NE)
 1P D 10 53 49.7 (Z)
 1S 54 18.8 (E)
 eP 11 36 47.8 (Z)
 1S 37 08.2 (ZE)
 e1P D 12 17 36.6 (Z)
 1P C 13 43 25.0 (Z)
 1S 38.4 (Z'N')
 1P C 15 01 20.8 (Z)
 1S 48.8 (ZE)
 1P D 17 01 45.2 (Z)
 1S 02 06.4 (ZNE)
 1P 18 12 19.2 (Z)
 1S 33.2 (Z'N'E')

8 e1P C 21 35 40.5 (ZZ')
 1 36 09.3 (ZZ')
 1 39 39.0 (Z'N'E')
 1 44 08.0 (Z') T:13.0 A:10.0
 1 50 11.0 (Z'E')
 1 22 00 15.0 (Z'E')
 1(L) 30 39.9 (Z'N'E') T:30.0 A:78.0
 1P C 22 17 11.4 (Z)
 1S 32.4 (NE)
 9 eP 02 15 25.9 (Z)
 1S 30.1 (ZNE)
 e1P 04 06 07.0 (Z)
 eP 04 18 17.8 (Z)
 1S 19 27.8 (E)
 1P C 05 28 26.8 (ZZ')
 1S 41.3 (N'E')
 eP 06 53 20.7 (Z)
 1P C 11 51 39.5 (Z)
 1S 52 08.5 (ZN)
 1P C 14 02 51.4 (Z)
 1S 03 41.4 (NE)
 1P C 16 39 32.9 (Z)
 1 45.5 (ZNE)
 1S 40 00.9 (ZNE)
 eP 18 45 43.0 (Z)
 e 18 51 23.2 (E')
 e 53 17.2 (E')
 1 56 27.2 (Z'N'E')
 e(P) 23 02 49.8 (Z)
 10 1P D 02 08 24.9 (Z)
 1S 38.2 (NE)
 eP 06 54 59.1 (Z)
 1S 56 33.4 (ZE)
 1P D 10 59 56.2 (Z)
 1S 11 00 12.0 (ZNE)
 1P 13 50 54.9 (Z)
 1S 59.4 (Z'N'E')
 e1P C 14 16 28.4 (Z) T:01.1 A:09.0
 1 20 16.4 (ZE)
 eP 16 31 35.0 (Z)
 e 34 49.2 (Z)
 1P D 21 43 06.0 (Z)
 1S 44 54.6 (E)
 e(P) 23 12 45.5 (Z)

11	eP	03	58	24.5	(Z)		
	i			54.8	(Z)		
	iP	04	17	53.1	(Z)		
	iS		16	10.0	(ZNE)		
	eP	14	02	11.7	(Z)		
	iS		03	19.4	(ZNE)		
	iP	C	17	42	56.9 (Z)	T:01.0	A:10.0
	i		46	53.4	(ZNEH'E')		
	e		47	37.2	(N')		
	i		48	20.2	(E')		
	iP	C	17	50	05.1 (Z)		
12	iP	D	00	13	19.0 (Z)		
	iS			38.3	(ZNE)		
	iP	C	01	52	46.6 (Z)		
	iS			53	28.9 (ZN)		
	iP	C	04	47	11.2 (Z)		
	iS			15.8	(ZNE)		
	eP	06	58	50.7	(Z)		
	iS		59	33.0	(N)		
	e(P)	11	48	34.5	(ZZ')		
	e		54	37.5	(Z')	T:12.0	A:04.0
	e		57	43.5	(Z'E')		
	e(L)	12	18	45.5	(Z')		
	i(P)	11	59	20.5	(Z)		
	iP	15	04	25.9	(Z)		
	iS			30.9	(Z'N'E')		
	eiP	C	16	08	33.8 (Z)		
	iS			47.3	(NE)		
	iP	C	16	52	28.8 (Z)		
	e(L)		17	13	06.3 (N'E')		
	eiP		17	40	16.7 (Z)		
	i(P)	22	55	36.0	(Z)		
13	iP	C	05	47	46.3 (Z)		
	iS			49	18.3 (E)		
	eP	07	07	44.3	(Z)		
	iS		08	41.7	(ZNE)		
	e(P)	08	06	18.2	(Z)		
	iP	C	11	56	01.5 (Z)		
	iS			06.0	(ZNE)		
	eP	14	16	53.9	(Z)		
	iS		18	06.4	(ZE)		
	eP	22	58	13.5	(Z)		
	eS			42.5	(ZNE)		
	e(P)	23	11	06.7	(Z)		
14	eP	05	27	01.3	(Z)		
	i			11.2	(Z)		
	iS			57.3	(Z)		
	i(S)		28	19.8	(ZNE)		
	iP	C	06	02	10.9 (Z)		
	iS			24.7	(ZNE)		
	eP	11	47	13.5	(Z)		
	eS			40.5	(Z)		
	iP	D	17	21	57.9 (Z)		
	iS			22	20.3 (ZNE)		
	iP	C	18	20	04.6 (Z)		
	iS			28.4	(ZNE)		
	eiP	D	23	28	05.2 (ZZ')		
	i(S)			35	23.0 (Z')	T:14.0	A:17.0
	i(S)			32.0	(E')	T:24.0	A:50.0
15	iP	D	00	49	34.5 (Z)		
	iP	C	01	48	09.4 (Z)		
	iS			33.6	(Z)		
	eiP	C	01	55	53.4 (Z)		
	i			56	00.9 (Z)		
	e			58	32.9 (Z)		
	eiP	C	02	12	48.4 (Z)		
	eiP	C	02	34	15.9 (Z)		
	eiP	D	03	03	04.2 (Z)		
	i(S)			34.3	(Z)		
	eP	03	51	13.8	(Z)		
	iP	D	05	46	37.5 (Z)		
	iS			41.8	(ZNE)		
	eP	06	17	20.7	(Z)		
	i			31.1	(Z)	T:01.0	A:07.0
	e		19	09.7	(Z)		
	eiP	D	06	31	31.8 (Z)		
	e(P)	07	14	46.2	(Z)		
	eP	08	24	07.5	(Z)		
	e(P)	09	46	17.6	(Z)		
	iP	C	11	52	31.3 (Z)		
	iS			53	02.5 (ZN)		
	eiP	12	01	20.1	(ZZ')		
	e(S)		08	58.5	(Z'N'E')		
	e(L)		12	50.5	(Z')		
	iL		19	44.5	(Z'N')	T:26.0	A:72.0
	eiP	C	12	09	22.8 (Z)		
	eP	19	18	38.7	(Z)		
	iS		19	24.0	(ZNE)		

15 iP 20 48 20.5 (Z)
 iS 52.2 (Z)
 i(S) 49 02.9 (Z)
 iP D 23 48 54.2 (Z)
 iS 49 45.5 (Z)
 16 eIP D 06 51 53.2 (Z)
 eP 07 47 05.7 (Z)
 iS 48 36.9 (E)
 eP 18 16 19.2 (Z)
 iS 41.2 (ZNE)
 e(P) 23 27 24.7 (Z)
 iP C 23 44 50.3 (Z)
 iS 45 34.3 (E)
 eP 23 51 25.7 (Z)
 iS 52 16.5 (E)
 17 iP D 00 32 19.8 (Z)
 iS 52.7 (NE)
 eP 03 49 52.3 (Z)
 eS 50 40.3 (ZNE)
 iP C 00 52 44.3 (Z)
 iS 53 11.0 (ZNE)
 eP 08 55 31.6 (Z)
 iS 45.8 (NE)
 eP 13 35 45.1 (Z)
 iS 36 05.8 (ZNE)
 iP C 16 14 05.3 (Z)
 iS 26.3 (ZNE)
 iP D 16 26 07.5 (Z)
 iS 31.8 (ZE)
 iP D 20 57 58.6 (Z)
 iS 58 37.9 (ZE)
 eP 21 20 10.8 (Z)
 iS 32.9 (ZNE)
 iP D 22 48 45.9 (Z)
 iS 49 03.3 (ZE)
 18 iP C 05 34 55.8 (Z)
 iS 35 59.3 (E)
 eP 06 01 25.5 (Z)
 iP D 07 06 24.7 (Z)
 iS 36.4 (NE)
 eP 10 15 19.1 (Z)
 eS 31.0 (ZNE)
 iP C 11 34 32.1 (Z)
 iS 35 23.4 (NE)

18 iP D 15 23 50.3 (ZZ')
 e 31 41.3 (Z'H')
 e(L) 40 53.3 (Z'H'E')
 eIP C 21 03 04.1 (Z) T:01.0 A:12.5
 i 06 23.6 (Z) T:01.1 A:06.0
 e 49 39.1 (Z'H'E')
 eP 23 19 10.3 (Z)
 19 iP C 00 12 43.3 (Z)
 i 13 02.0 (ZE)
 eIP C 00 41 41.5 (Z)
 iS 42 24.4 (NE)
 eP 02 06 03.0 (Z)
 iS 42.4 (NE)
 iP C 02 24 23.5 (Z)
 iS 50.7 (ZNE)
 e(P) 03 08 17.9 (Z)
 eP 03 19 26.8 (Z)
 iS 41.8 (NE)
 iP C 05 12 10.3 (Z)
 eP 06 13 18.2 (Z)
 iS 56.9 (E)
 eIP 06 18 42.2 (Z)
 iP 07 37 21.3 (Z)
 iS 25.9 (ZNE)
 iP D 08 37 12.1 (Z)
 iS 31.2 (ZNE)
 eIP 13 23 36.4 (Z)
 i(S) 24 20.1 (E)
 iP C 16 38 39.5 (Z)
 iP C 16 52 54.2 (Z)
 i(S) 53 58.7 (E)
 eP 18 56 12.2 (Z)
 iS 31.5 (E)
 20 eP 00 13 04.5 (Z)
 eP 02 06 29.9 (Z)
 iS 35.9 (NE)
 eP 03 10 37.9 (Z)
 iS 53.2 (NE)
 eP 04 52 52.8 (Z)
 iS 53 31.3 (E)
 e(P) 05 32 54.0 (Z)
 eP 07 11 05.4 (Z)
 iS 22.5 (NE)



20 eIP C 09 33 30.1 (Z)
 e(L) 53 37.6 (Z')

eP 10 45 43.5 (Z)
 IS 46 10.6 (ZNE)

iP C 14 33 42.7 (ZZ')

IS 34 38.4 (Z'H'E')

iP D 14 41 09.0 (Z)
 IS 15.6 (ZNE)

e(L) 18 20 04.2 (Z')

21 iP C 02 53 35.8 (Z)

iP D 04 02 21.0 (Z)
 IS 51.5 (E)

eP 07 23 20.6 (Z)
 IS 33.4 (ZNE)

eP 08 54 28.1 (Z)
 IS 37.5 (N)

eIP 15 19 39.4 (Z)
 IS 20 09.1 (NE)

eIP D 16 19 35.2 (Z)
 IS 20 33.4 (E)

eP 16 54 04.8 (Z)
 IS 18.7 (NE)

22 eP 01 25 23.5 (Z)
 IS 26 34.0 (ZNE)

e(P) 04 35 08.6 (Z)

eP 05 01 23.4 (Z)
 IS 38.0 (ZNE)

eP 05 13 52.8 (Z)
 IS 58.1 (ZNE)

eIP D 05 17 13.9 (Z) T:01.4 A:02.0

eP 05 23 21.9 (Z)
 i 30.3 (Z)
 IS 24 20.1 (ZNE)

eP 06 02 04.9 (Z)
 IS 51.1 (NE)

eP 07 54 20.1 (Z)
 IS 36.0 (ZNE)

iP D 16 39 44.9 (Z)
 IS 57.4 (N)

iP D 17 08 59.8 (Z)
 IS 09 13.3 (NE)

iP D 21 15 56.2 (Z)
 IS 16 30.4 (Z)

eP 23 02 14.3 (Z)
 IS 03 09.0 (E)

23 iP C 02 20 27.9 (Z)
 IS 46.3 (ZNE)

eIP 03 15 03.3 (Z)

iP C 04 53 24.1 (Z)
 IS 52.5 (NE)

eP 05 28 19.6 (Z)

e(P) 06 11 11.9 (Z)

eP 07 21 56.4 (Z)
 IS 22 11.1 (ZNE)

eP 07 24 27.6 (Z)
 IS 39.4 (Z)
 e 25 04.8 (Z)

eIP C 07 44 11.6 (Z)

eP 09 37 31.1 (Z)

iP D 09 41 48.4 (Z)
 IS 59.1 (N)

iP C 14 18 31.6 (Z)
 IS 19 42.1 (ZH)

eP 16 35 21.2 (Z)
 IS 39.4 (ZNE)

iP C 18 35 16.9 (ZZ') T:00.9 A:09.0
 e 43 08.2 (N')
 e(L) 52 32.2 (N'E')

eP 23 16 47.8 (Z)
 i 17 11.9 (Z)

24 iP D 01 18 18.8 (Z)
 IS 50.1 (NE')

eP 10 19 55.6 (Z)

eP 12 29 32.3 (Z)
 IS 56.4 (ZNE)

iP C 12 40 59.8 (Z)
 IS 41 32.7 (ZNE)

eP 15 07 43.4 (Z)

iP C 21 48 59.1 (Z)
 IS 49 16.3 (ZNE)

e(P) 23 46 18.7 (Z)

25 iP C 01 02 04.9 (Z)
 e 20.8 (Z)
 IS 26.6 (NE)

iP D 04 15 57.0 (Z)
 IS 16 14.9 (ZNE)

iP C 05 09 00.3 (Z)
 i 33.8 (Z)

iP D 05 23 05.6 (Z)
 IS 25.5 (ZNE)

25 1P C 05 58 23.2 (ZZ')
 1S 59 06.6 (ZEE')

1P D 06 10 39.3 (Z) T:01.0 A:03.7
 e 53.3 (Z)
 1 12 19.1 (Z)
 e 17 16.1 (N'E')
 eL 26 07.1 (Z')

eP 07 01 53.1 (Z)
 1S 02 40.9 (N)
 1(S) 51.4 (Z)

1P 13 28 26.6 (Z)
 1S 55.9 (Z)

eP 14 11 16.4 (Z)
 1S 12 14.5 (E)

e(P) 23 29 28.2 (Z)
 1 40.9 (Z)

26 eP 00 56 16.0 (Z)
 1S 54.0 (ZNE)

eP 03 18 15.5 (Z)
 1S 49.8 (E)

1P C 04 44 24.1 (Z)
 1S 49.4 (E)

e(P) 05 31 00.1 (Z)

1P D 07 55 35.1 (Z)

eP 07 57 14.3 (Z)
 1S 58 02.1 (N)

eP 09 44 47.6 (Z)

e1P C 23 10 06.8 (Z) T:00.8 A:11.5

1P D 23 24 16.3 (Z)

27 eP 04 12 46.3 (Z)

1P D 09 03 59.0 (Z)
 1(S) 04 25.7 (Z)

e(P) 09 46 47.8 (Z)

eP 10 38 45.3 (Z)
 1S 39 24.3 (Z)

1P C 14 10 18.6 (Z)
 1S 11 20.6 (N)

e(P) 14 14 42.1 (Z)

e(P) 14 17 42.9 (Z)

1P C 15 25 17.5 (Z)
 1S 26 15.7 (Z)

e(P) 17 54 18.7 (Z)

eP 18 02 45.2 (Z)
 1S 03 15.2 (Z)

27 1P D 20 55 15.2 (Z)
 1S 28.7 (ZNE)

eP 23 15 27.0 (Z)
 1 16 17.7 (Z)

28 1P C 02 25 19.5 (Z)
 1S 33.3 (E)

eP 02 37 11.8 (Z)
 e(L) 44 07.0 (Z')

eP 05 32 27.0 (Z)
 eS 33 03.6 (ZNE)

eP 07 58 55.6 (Z)
 1S 59 10.0 (NE)

e(P) 09 47 49.1 (Z)

1P C 11 23 52.8 (Z)
 1S 24 35.6 (ZNE)

eP 14 20 27.7 (ZE')
 1 21 31.7 (Z)

e 24 54.7 (Z)
 e 49 47.2 (E')

e(L) 53 26.2 (N'E')

1P C 17 35 28.9 (Z)
 1S 45.2 (N)

1P 18 58 00.2 (Z)
 1S 55.5 (Z)

eP 19 50 17.7 (Z)
 1S 51 29.2 (NE)

1P D 20 52 54.2 (Z)
 1S 53 15.7 (ZE)

1P D 22 35 12.7 (Z)
 1S 36 03.4 (E)

e1P C 23 37 43.6 (Z) T:01.0 A:03.5

29 eP 02 09 49.8 (Z)
 1S 10 25.6 (ZNE)

1P D 03 29 41.3 (Z)
 1S 55.1 (ZNE)

eP 04 36 23.4 (Z)
 eS 37 18.1 (ZNE)

eP 04 54 24.6 (Z)
 1S 59.8 (N)

eP 09 09 00.1 (Z)
 eS 38.9 (Z)

1P D 14 13 15.3 (Z)
 1S 40.9 (ZNE)

1P D 17 24 03.4 (Z)
 1S 36.1 (Z)

- 7 -

29 iP D 18 42 40.8 (Z)
 1S 43 08.5 (ZE)
 i(P) D 23 07 04.1 (Z)
 e(P) 23 24 14.3 (Z)
 30 iP D 00 06 38.0 (Z)
 1S 42.4 (ZNE)
 eiP D 00 19 53.3 (Z)
 eP 03 50 16.8 (Z)
 e(P) 04 01 03.5 (Z)

30 eP 05 23 56.5 (Z)
 e 24 22.8 (Z)
 e(P) 06 18 20.5 (Z)
 e 33.8 (Z)
 e 19 00.8 (Z)
 eP 07 17 39.2 (Z)
 1S 18 10.5 (NE)
 iP C 09 29 53.6 (ZE')
 1S 30 23.6 (N'B')
 iP D 11 04 49.6 (Z)
 1S 05 20.0 (N)

T:01.0 A:02.4

C : compresión
 D : dilatación

Octubre 10, 1966

Daup



LECTURAS EN LA ESTACION SISMOGRAFICA DE AREQUIPA

(ARE, WWSSS)

Coordenadas de la estación : Latitud : 16°27'43.5" Sur
 Longitud : 71°29'28.6" Oeste
 Altitud : 2,451.6 mts.

Instrumentos : Benioff, Período Corto (Z,N,E).- Amplificación: 50,000
 Sprengnether, P. Largo (Z',N',E').- Amplificación: 1,500

OCTUBRE, 1966

1 eP	01 09 31.9 (Z)	3 iP	D 05 33 39.2 (Z)	T:01.0 A:02.5
iS	47.8 (ZNE)	e	50.9 (Z)	
iP	C 01 31 24.1 (Z)	iP	C 05 57 54.3 (Z)	
iP	C 03 56 55.1 (Z)	iS	58 00.3 (ZZ'NE)	
iS	57 02.7 (ZNE)	e(P)	06 46 43.0 (Z)	
eP	06 02 14.0 (Z)	eP	06 49 38.1 (Z)	
iS	39.2 (NE)	eP	07 27 02.5 (Z)	
iP	D 09 42 24.1 (Z)	iP	C 08 42 00.8 (Z)	
iS	39.6 (ZNE)	iS	25.2 (E)	
iP	D 16 41 19.4 (Z)	iP	C 08 53 40.2 (Z)	
iP	C 18 49 38.3 (Z)	iS	54 03.2 (NE)	
iS	50 06.3 (NE)	e(P)	09 41 08.6 (Z)	
eP	23 09 10.1 (Z)	eP	13 43 48.0 (Z)	
iS	10 30.6 (ZNE)	iS	44 21.7 (ZNE)	
e(P)	23 23 39.6 (Z)	4 e(P)	04 05 13.7 (Z)	
i	24 07.1 (Z)	iS	54.7 (E)	
2 e(P)	02 44 45.4 (Z)	e(P)	07 42 39.0 (Z)	
eiP	C 06 09 35.3 (Z)	iP	C 09 30 41.4 (Z)	T:01.2 A:03.0
iS	10 00.3 (ZNE)	iP	D 11 21 41.3 (Z)	
eP	08 18 08.7 (Z)	iS	22 15.4 (ZE)	
eS	22.9 (ZN)	eP	12 42 20.7 (Z)	
iP	D 11 58 33.6 (Z)	iS	34.9 (ZNE)	
iS	37.6 (ZNE)	iP	C 17 20 50.7 (Z)	
iP	D 13 26 16.8 (Z)	iS	55.6 (E)	
iS	27 10.8 (NE)	iP	C 23 15 04.2 (Z)	
eiP	D 21 25 48.2 (Z)	iS	20.7 (ZNE)	
iS	26 06.5 (E)	5 eP	00 15 44.2 (Z)	
iP	D 21 29 51.4 (Z)	iS	55.0 (ZNE)	
iS	30 11.9 (ZE)	iP	D 00 37 26.3 (Z)	
e(P)	23 30 38.6 (Z)	iS	41.6 (Z)	
3 eP	02 29 18.1 (Z)	iP	D 00 44 47.8 (Z)	
iS	41.9 (ZN)	iS	45 13.0 (EN'E')	
eP	04 08 31.0 (Z)	iP	C 01 13 15.5 (Z)	
iS	36.4 (ZNE)	iS	30.5 (ZN)	
eiP	D 04 16 53.5 (Z)	eP	05 06 13.3 (Z)	
e	17 35.5 (Z)	eP	07 18 20.5 (Z)	
eP	05 22 22.4 (Z)	iS	43.2 (ZNE)	
iS	40.0 (Z)			

5 iP D 07 49 50.1 (Z)
 iS 50 41.5 (ZNE)
 iP C 08 11 16.7 (Z)
 iS 12 19.2 (ZN)
 iP D 17 54 50.1 (Z)
 iS 55 51.5 (Z)
 eP 23 40 22.3 (Z)
 iS 41 31.9 (ZE)
 6 eP 04 00 12.8 (Z)
 iS 01 06.4 (E)
 iP D 10 46 00.6 (Z)
 iS 14.6 (NE)
 eiP D 11 32 06.6 (Z)
 iS 24.6 (E)
 iP C 17 15 43.5 (Z)
 iS 16 11.8 (ZE)
 7 eP 00 33 40.4 (Z)
 iS 34 02.2 (E)
 iP C 00 50 22.1 (Z)
 iS 51.6 (ZE)
 iP C 01 28 10.4 (Z)
 iS 28.1 (ZNE)
 eiP D 05 48 32.3 (Z)
 iP D 07 33 58.3 (Z)
 i(P) C 08 42 29.3 (Z)
 e 44.7 (Z)
 e(P) 08 53 21.2 (Z)
 iS 35.7 (E)
 eP 11 58 58.0 (Z)
 iS 59 21.6 (ZN)
 iP D 15 50 46.9 (Z)
 iS 51 01.6 (ZNE)
 e(P) 16 13 17.4 (Z')
 i(S) 23 19.4 (Z')
 i(S) 24 17.4 (N'E')
 i(L) 40 14.4 (N'E')
 eiP C 16 24 33.4 (Z)
 iP C 17 53 00.7 (Z)
 iS 29.1 (NE)
 eP 23 31 25.1 (Z)
 e 43.9 (Z)
 8 e(L) 00 58 26.0 (Z'E')
 e(L) 03 20 21.9 (Z'E')
 iP D 04 26 47.6 (Z)
 i 27 26.5 (Z)
 eP 05 35 15.4 (Z)
 iS 35.8 (N)

T:01.1 A:01.8

T:01.0 A:03.3

T:17.0 A:11.5

T:18.0 A:21.0

T:49.0 A:65.0

T:30.0 A:20.0¹⁰

T:30.0 A:25.0

8 eP 05 53 29.8 (Z)
 iS 43.8 (ZNE)
 eiP D 06 06 28.1 (Z)
 iP D 06 57 01.7 (Z)
 iS 40.7 (ZN)
 iP C 10 17 07.8 (Z)
 iS 26.6 (ZNE)
 eiP C 10 33 26.1 (Z)
 iS 34 10.8 (EE')
 iP D 16 37 27.6 (Z)
 iS 43.1 (ZE)
 iP C 20 51 38.4 (Z)
 iS 52 14.0 (ZE)
 eP 21 27 25.8 (Z)
 iS 43.3 (N)
 9 e(P) 00 12 54.5 (Z)
 eP 02 27 04.4 (Z)
 iS 35.0 (N)
 eP 02 39 11.5 (Z)
 iS 47.0 (N)
 eP 04 48 17.1 (Z)
 e 51 07.8 (Z)
 e(P) 05 07 47.3 (Z)
 eP 06 46 55.0 (Z)
 eS 47 10.5 (ZNE)
 e(P) 07 29 51.9 (Z)
 e(L) 40 06.7 (N'E')
 eL 48 55.0 (Z'E')
 eP 09 29 36.8 (Z)
 eP 09 32 17.4 (Z)
 iS 52.6 (ZE)
 eP 09 45 19.3 (Z)
 iS 46 12.1 (N)
 i(S) 24.6 (ZNE)
 iP D 15 01 51.6 (Z)
 iS 02 53.6 (E)
 eP 19 23 55.1 (Z)
 iS 24 14.1 (N)
 e(P) 21 02 34.4 (Z)
 e(P) 23 25 35.1 (Z)
 eP 03 35 33.1 (Z)
 iS 56.3 (E)
 eP 03 45 53.9 (Z)
 e(P) 06 16 39.0 (Z)
 eiP 07 02 56.7 (Z)
 iP C 11 20 24.6 (Z)
 iS 59.9 (Z)

T:22.0 A:06.0

T:18.0 A:08.0

10 iP D 17 52 30.3 (Z)
 iS 53 12.0 (E)
 iP D 20 29 23.2 (Z)
 iS 30 24.7 (Z'E')
 i 45.2 (Z'N')
 i(P) 20 35 43.0 (Z)
 iS 36 24.9 (ZE)
 iP D 20 55 08.2 (Z)
 iS 29.0 (ZE)
 iP D 21 07 41.5 (Z)
 iS 08 21.7 (ZN)
 eP 22 26 18.0 (Z)
 iS 51.4 (Z)
 11 eP 02 15 09.7 (Z)
 iS 39.9 (E)
 eP 03 08 33.9 (Z)
 iS 09 18.7 (ZE)
 eP 03 28 07.1 (Z)
 iS 31.1 (Z)
 iP C 03 31 27.1 (Z)
 iS 32 22.2 (ZN'E')
 eiP 04 41 04.1 (Z)
 eP 05 42 14.8 (Z)
 i(S) 45 57.8 (E)
 eP 06 05 11.1 (Z)
 iS 33.1 (NE)
 eP 06 18 22.8 (Z)
 eS 49.8 (ZNE)
 iP C 06 35 21.8 (ZZ')
 e 45 19.8 (N'E')
 e(L) 52 07.8 (Z'N')
 eL 55 59.8 (Z')
 eP 06 40 21.1 (Z)
 eiP 07 02 30.2 (Z)
 eP 07 49 37.2 (Z)
 iS 50 55.7 (N)
 iP C 08 09 08.9 (Z)
 i 21.5 (Z)
 iP D 14 22 23.2 (Z)
 iS 23 05.0 (ZNE)
 iP D 16 37 00.7 (Z)
 iS 20.9 (Z)
 iP C 18 23 03.8 (Z)
 iS 28.1 (E)
 12 eP 00 26 23.0 (Z)
 iP D 02 19 36.4 (Z)
 iS 55.8 (ZNE)

T:24.0 A:43.0

T:01.0 A:12.0
 T:01.0 A:09.0

12 eP 02 32 16.4 (Z)
 iS 53.5 (ZE)
 iP D 03 11 54.9 (Z)
 iS 12 59.9 (ZN)
 iP C 04 39 20.8 (Z)
 iS 43.8 (NE)
 eP 05 24 44.3 (Z)
 iS 25 16.0 (N)
 eP 05 52 05.8 (Z)
 eP 06 01 56.3 (Z)
 iS 03 09.8 (ZNE)
 iP D 07 01 52.9 (Z)
 iP C 15 58 34.7 (Z)
 e(P) 16 06 58.9 (Z)
 iP C 17 45 08.4 (Z)
 iS 35.3 (ZE)
 eiP 18 31 19.3 (Z)
 iP C 20 02 47.2 (Z)
 iS 03 02.7 (ZE)
 e(P) 21 01 34.8 (Z)
 i 05 12.7 (ZN)
 eiP 23 38 44.6 (Z)
 13 iP 02 09 41.2 (Z)
 iS 54.6 (ZNE)
 iP D 02 44 41.2 (Z)
 iS 46.1 (ZNE)
 iP D 04 21 39.8 (Z)
 iS 23 10.3 (ZNE)
 eP 05 31 38.8 (Z)
 iS 32 55.8 (E)
 eP 06 30 41.2 (Z)
 iS 31 05.9 (E)
 e(P) 08 36 32.0 (Z)
 eP 09 29 35.3 (Z)
 iP D 11 33 23.1 (Z)
 iS 34 30.1 (ZNE)
 eP 15 47 11.4 (ZZ')
 i 48 29.6 (Z)
 i 49 53.9 (E')
 eiP C 17 33 51.9 (Z)
 iP C 22 50 25.5 (Z)
 iS 41.5 (ZNE)
 14 iP C 01 24 40.8 (Z)
 iP D 01 31 32.1 (Z)
 iP D 02 28 02.5 (Z)
 iS 50.4 (NE)

T:01.1 A:24.5

14 e(P) 04 21 15.6 (Z)
 e(P) 06 42 19.7 (Z)
 iP D 07 29 46.2 (Z)
 iS 30 25.6 (E)
 iP C 07 48 34.9 (Z)
 iS 53.2 (E)
 iP C 08 41 11.2 (Z)
 iS 30.4 (ZN)
 iP C 21 28 17.0 (Z)
 iS 50.5 (E)
 15 eiP 02 26 03.9 (Z)
 eP 03 04 22.4 (Z)
 iS 05 03.7 (E)
 eP 04 32 11.8 (Z)
 iS 39.8 (E)
 eP 05 13 00.3 (Z)
 eP 05 34 55.6 (Z)
 iS 35 43.3 (N)
 iP C 05 55 10.0 (Z)
 iS 48.3 (NE)
 eiP 06 26 28.0 (Z)
 iS 27 06.6 (ZE)
 e(P) 23 49 14.1 (Z)
 i 44.9 (Z)
 16 eP 00 50 03.8 (Z)
 iS 40.0 (ZNE)
 eP 01 21 25.2 (Z)
 iS 22 35.8 (E)
 iP 01 21 33.0 (Z)
 iS 36.1 (ZNE)
 eP 03 04 17.1 (Z)
 eS 57.9 (NE)
 iP D 05 59 56.2 (Z)
 iS 06 00 14.5 (E)
 iP C 06 49 28.9 (Z)
 iS 50 06.8 (E)
 i(S) 27.8 (Z'E')
 i 46.8 (Z'N') T:13.0 A:107.0
 eP 08 06 47.0 (Z)
 iS 07 21.2 (ZN)
 eP 08 54 29.7 (Z)
 iS 55 07.0 (E)
 eiP D 09 33 09.3 (Z)
 eP 10 00 13.4 (Z)
 iS 01 04.2 (Z)
 iP 13 01 12.5 (Z)
 iS 42.5 (ZE)

16 iP C 13 04 31.0 (Z)
 eP 13 09 29.7 (Z)
 eP 13 58 59.5 (Z)
 iS 59 29.5 (E)
 eP 15 20 23.6 (Z)
 eP 15 31 32.2 (Z)
 iS 32 51.2 (Z)
 iP D 22 20 08.7 (Z)
 iS 43.2 (E)
 i(P) 23 26 25.1 (E)
 17 iP D 00 27 05.6 (Z)
 iS 47.3 (E)
 eP 03 52 33.6 (Z)
 iS 53 16.3 (ZE)
 iP C 05 40 09.3 (Z)
 iS 40.8 (ZNE)
 iP C 08 10 33.0 (Z)
 iS 45.7 (ZNE)
 iP C 08 23 09.0 (Z)
 iS 13.5 (ZNE)
 eiP 11 12 59.1 (Z)
 iS 13 39.4 (NE)
 iP C 16 50 07.2 (Z)
 iS 24.9 (ZNE)
 iP D 16 52 28.8 (Z)
 iS 46.3 (Z)
 iP D 19 41 38.2 (Z)
 iS 42 27.6 (E)
 iP D 19 50 39.2 (Z)
 iS 54.7 (E)
 eiP D 21 08 21.4 (Z) T:01.0 A:03.0
 iP C 21 44 02.6 (E')
 iP C 23 06 41.0 (Z)
 i(S) 08 25.5 (Z)
 eiP 23 49 28.0 (Z)
 18 iP C 01 06 03.8 (Z)
 iS 07 54.5 (E)
 iP C 01 56 07.8 (Z)
 iS 58 09.0 (E)
 eiP C 03 17 05.1 (Z)
 iS 19 11.9 (N)
 eiP 04 23 02.1 (Z)
 iS 24 50.8 (N)
 iP C 04 45 08.8 (Z)
 iS 46 54.6 (N)

18 eP 04 55 03.3 (Z)
 eS 56 54.9 (Z)
 eP 05 12 23.1 (Z)
 iS 54.8 (N)
 eP 05 18 52.3 (Z)
 iS 20 43.8 (N)
 eP 06 40 54.6 (Z)
 eS 43 02.1 (E)
 eP 07 41 43.6 (Z)
 iP D 07 43 21.6 (Z)
 iS 45 15.8 (Z)
 iP C 08 28 39.1 (Z)
 iS 30 15.7 (N)
 iP C 08 44 42.9 (Z)
 iS 45 13.6 (E)
 eiP C 08 58 56.2 (Z)
 iS 59 25.6 (ZNE)
 eP 09 02 23.6 (Z)
 iS 04 19.2 (E)
 iP D 10 28 55.2 (Z)
 iS 29 11.8 (N)
 iP D 11 04 29.2 (Z)
 iS 06 29.7 (Z)
 iP C 12 54 40.2 (Z)
 iS 56 37.4 (N)
 iP 17 27 24.0 (Z)
 iS 28 24.5 (N)
 iP C 18 39 59.9 (Z)
 iS 41 42.4 (N)
 eP 18 48 08.9 (Z)
 iP D 23 57 29.7 (Z)
 19 iP 00 53 29.2 (Z)
 iS 55 24.5 (N)
 eP 02 00 30.4 (Z)
 iS 38.0 (ZNE)
 eP 02 20 13.0 (Z)
 i 27.3 (Z)
 e 22 33.0 (N)
 e 57.0 (N)
 eP 05 18 51.3 (Z)
 iS 19 05.7 (Z)
 iP C 05 38 27.5 (Z)
 iS 46.7 (N)
 eP 06 08 16.6 (Z)
 iP C 06 31 11.1 (Z)
 iS 30.6 (ZNE)
 eP 06 42 46.9 (Z)
 iS 43 10.9 (NE)

T:01.1 A:18.5

19 eiP 06 49 52.6 (Z)
 eP 07 27 54.6 (Z)
 iS 29 42.2 (ZE)
 iP D 08 11 18.7 (ZZ') T:00.9 A:21.0
 i 37.6 (ZZ') T:01.0 A:25.0
 i(S) 19 15.1 (N'E') T:16.0 A:20.0
 i(S) 38.1 (N'E') T:24.0 A:76.0
 i 23 32.1 (N')
 e(L) 25 20.1 (N') T:30.0 A:195.0
 eL 29 34.1 (Z'E') T:24.0 A:220.0
 eP 08 13 44.1 (Z)
 iS 15 42.6 (N)
 eP 09 20 02.1 (Z)
 iS 51.1 (NE)
 iP D 10 50 50.1 (Z)
 iS 51 30.9 (Z)
 iP D 11 22 45.1 (Z)
 iS 50.5 (ZNE)
 eP 11 39 14.2 (Z)
 iS 40 13.1 (E)
 e(P) 13 02 05.2 (Z)
 e 03 01.4 (Z)
 iP D 14 33 07.2 (Z) T:01.0 A:06.0
 eiP 16 33 53.7 (Z)
 eP 16 54 09.0 (Z)
 eP 17 13 00.2 (Z)
 iS 29.5 (ZN)
 eP 17 37 58.2 (Z)
 iS 38 59.1 (E)
 iP C 17 40 23.9 (Z)
 iS 42 19.7 (E)
 e(P) 17 41 54.2 (Z')
 e 42 27.2 (N')
 i 45 40.2 (E') T:15.0 A:22.0
 eP 22 26 03.8 (Z)
 iS 28 12.8 (N)
 iP D 23 32 43.3 (Z)
 iS 48.8 (ZNE)
 20 eP 00 41 35.0 (Z)
 eP 00 43 12.5 (Z)
 iP D 01 12 29.9 (Z)
 iS 38.4 (ZNE)
 eP 01 13 25.5 (Z)
 eP 02 11 08.5 (Z)
 eiP 02 17 05.7 (Z)
 eP 04 53 03.1 (Z)
 eP 05 32 47.6 (Z)
 e(S) 34 43.0 (N)



20 iP D 05 52 47.9 (Z)
 iS 53 07.3 (ZE)
 eP 06 30 44.4 (Z)
 eS 59.6 (ZNE)
 iP D 06 38 48.1 (Z)
 iS 58.6 (ZNE)
 eiP 08 54 34.9 (Z)
 eP 09 47 57.6 (Z)
 iP D 10 12 08.1 (Z)
 iS 27.8 (E)
 iP 16 39 49.4 (Z)
 iS 54.1 (ZNE)
 iP C 16 49 12.9 (Z)
 iS 34.7 (NE)
 eP 19 12 52.2 (Z)
 iS 13 53.6 (NE)
 eiP 22 23 55.8 (Z)
 iP C 23 53 20.0 (Z)
 i(S) 55 15.6 (E)
 21 iP D 00 29 01.5 (Z)
 iS 14.0 (ZNE)
 eP 00 45 03.5 (Z)
 i(S) 47 01.2 (E)
 eP 03 14 03.3 (Z)
 iS 15 03.2 (N)
 eP 07 40 28.1 (Z)
 eiP D 09 27 45.9 (Z)
 iP C 09 31 03.6 (Z)
 i(S) 32 56.6 (ZN)
 e(P) 10 43 06.3 (Z)
 e(L) 10 55 40.1 (Z')
 eP 12 05 38.5 (Z)
 iS 57.7 (ZNE)
 eP 12 42 23.7 (Z)
 iS 44 45.6 (E)
 iP C 16 18 09.5 (Z)
 iS 41.1 (ZE)
 iP D 17 14 41.2 (Z)
 iS 59.4 (ZNE)
 iP C 18 54 32.0 (Z)
 iS 55 18.8 (Z)
 i(S) 42.2 (E)
 22 iP C 01 18 17.3 (Z)
 iS 48.8 (E)
 eP 01 30 07.4 (Z)
 iS 25.2 (E)
 eiP 02 40 47.5 (Z)

22 iP C 03 22 41.6 (Z)
 iS 23 05.5 (ZNE)
 eP 03 24 21.3 (Z)
 iP D 04 30 27.1 (Z)
 iS 40.3 (Z)
 eP 05 46 31.8 (Z)
 iS 47 09.9 (E)
 eiP 06 18 22.4 (Z)
 iS 44.1 (ZNE)
 eP 07 54 34.3 (Z)
 iP C 14 31 23.0 (Z)
 iP C 19 09 10.3 (Z)
 iS 22.7 (ZNE)
 23 iP D 02 25 44.5 (Z)
 iS 26 12.6 (ZE)
 eP 03 11 19.5 (Z)
 eiP 03 48 47.2 (Z)
 eP 05 44 08.9 (Z)
 iS 23.1 (ZN)
 iP C 06 58 49.6 (Z)
 iS 59.6 (NE)
 e(P) 13 46 16.7 (Z)
 eiP C 15 26 13.4 (Z)
 eiP 15 35 14.7 (Z)
 iS 37 09.7 (E)
 eP 15 48 07.7 (Z)
 eP 16 29 47.0 (Z)
 iS 30 34.8 (E)
 iP C 17 39 40.2 (Z)
 iP C 22 51 59.0 (Z)
 iS 52 12.8 (Z)
 24 iP D 00 32 00.3 (Z)
 iS 37.7 (ZNE)
 iP C 03 34 34.5 (Z)
 iS 41.0 (N)
 eP 04 42 08.3 (Z)
 iS 58.7 (N)
 eP 09 09 03.1 (Z)
 iP C 09 14 13.9 (Z)
 iS 25.5 (ZNE)
 eiP C 17 01 50.6 (Z)
 iS 02 55.7 (E)
 25 iP D 01 28 47.7 (Z)
 eS 29 11.6 (E)
 e(P) 03 08 54.4 (Z)
 eiP C 05 29 49.2 (Z)
 iS 30 55.3 (ZNE)



25 eP 06 59 04.8 (Z)
 iS 09.1 (ZNE)
 iP C 10 26 36.3 (Z)
 eiP 14 55 32.2 (Z)
 iS 57 31.0 (N)
 e 58 43.5 (Z')
 iP D 16 46 21.7 (Z)
 iS 43.1 (ZNE)
 iP C 18 23 54.2 (Z)
 eP 18 43 02.9 (Z)
 iS 44 03.0 (Z)
 iP C 20 14 54.5 (Z)
 iS 16 20.0 (N)
 eiP 21 58 11.0 (Z)
 iS 59 05.2 (Z)
 iP C 22 53 06.4 (Z)
 iS 24.0 (E)
 26 iP C 01 21 08.0 (Z)
 iS 36.4 (ZNE)
 iP C 08 07 22.0 (Z)
 iS 42.0 (E)
 eP 08 16 31.7 (Z)
 eiP 08 18 14.1 (Z)
 iS 36.1 (ZE)
 iP D 08 21 35.4 (Z)
 iS 49.0 (E)
 eP 09 59 50.9 (Z)
 e(S) 10 01 18.7 (Z)
 iP C 14 44 09.8 (Z)
 iS 24.0 (ZNE)
 eP 16 04 15.9 (Z)
 iS 06 04.9 (N)
 iP D 16 14 47.7 (Z)
 iS 15 06.3 (ZNE)
 iP D 16 31 36.0 (Z)
 iS 52.2 (NE)
 iP D 17 22 46.2 (Z)
 iS 58.4 (Z)
 iP C 17 54 29.8 (Z)
 iS 36.1 (NE)
 27 iP C 00 18 01.4 (Z)
 iS 19 03.5 (ZE)
 iP C 00 28 13.3 (Z)
 iS 56.6 (E)
 eP 01 55 03.6 (Z)
 iP D 02 47 14.2 (Z)

T:01.2 A:06.5

T:01.0 A:02.9

27 iP D 06 15 44.3 (Z)
 e 20 47.4 (Z)
 e 25 50.8 (Z)
 e 26 55.3 (Z)
 iP D 06 27 16.7 (Z)
 e 31 08.0 (Z)
 eP 06 48 45.0 (Z)
 iS 49 32.8 (N)
 eP 07 16 56.4 (Z)
 iS 17 38.7 (NE)
 eiP 09 37 40.1 (Z)
 iP D 10 08 07.6 (Z)
 iS 29.4 (E)
 iP C 12 11 16.2 (Z)
 i(S) 13 32.0 (N)
 iP D 14 40 40.0 (ZZ')
 i 41 15.1 (Z)
 iP D 16 37 26.4 (Z)
 iS 41.4 (ZNE)
 iP D 23 51 34.8 (Z)
 iS 47.7 (E)
 28 eP 04 59 19.6 (Z)
 iS 53.3 (Z)
 eP 05 19 17.5 (Z)
 eS 45.3 (Z)
 eiP D 06 38 55.6 (Z)
 iP D 14 06 31.3 (Z)
 iS 07 04.8 (ZNE)
 iP C 15 48 52.4 (Z)
 iS 49 08.2 (Z)
 iP 16 49 18.6 (ZZ')
 i(S) 25.4 (Z')
 29 iP C 01 01 28.7 (Z)
 eP 02 39 15.4 (Z)
 iS 46.9 (E)
 iP D 03 42 48.9 (Z)
 iS 52.7 (NE)
 iP D 04 47 38.2 (Z)
 i(S) 49 09.5 (Z)
 iS 20.6 (N)
 iP C 09 08 23.7 (Z)
 iS 52.0 (E)
 eP 11 00 10.8 (Z)
 iS 01 44.9 (E)
 iP C 13 19 07.5 (Z)
 iS 20 07.7 (Z)
 iP D 15 11 19.0 (ZZ')
 iS 26.4 (N'E')

T:01.0 A:03.2

T:01.0 A:07.0

T:00.9 A:12.0

T:01.0 A:07.0

T:00.9 A:18.0

29 eP 15 34 25.4 (Z)
 iS 36 29.9 (E)
 eP 15 44 31.9 (Z)
 iS 46 36.2 (E)
 30 eP 01 54 35.9 (Z)
 iS 56 39.9 (E)
 iP C 01 57 50.9 (Z)
 eP 02 34 26.4 (Z)
 eP 03 57 47.4 (Z)
 iS 59 00.6 (N)
 iP C 05 46 06.5 (Z)
 i 47 53.6 (Z)
 e 48 56.8 (E')
 i 49 51.8 (Z')
 iP D 06 21 56.3 (Z)
 iS 22 09.8 N'EE')
 iP D 10 12 22.1 (Z)
 iS 26.7 (ZNE)
 iP C 12 15 16.4 (Z)
 iS 32.5 (ZNE)
 eP 15 57 14.6 (Z)
 iP C 21 10 22.2 (Z)
 iP D 21 29 29.2 (Z)
 iS 52.7 (E)

31 eP 02 26 07.4 (Z)
 iS 27 09.9 (E)
 iP C 02 52 34.9 (Z)
 iS 53 06.4 (N)
 iP D 02 59 55.6 (Z)
 iS 03 00 34.9 (EE')
 iP C 03 04 33.1 (Z)
 iS 37.9 (ZNE)
 eP 04 03 03.4 (Z)
 iP D 04 31 00.2 (Z)
 iS 16.8 (ZNE)
 eP 05 35 41.3 (Z)
 iS 58.0 (NE)
 eP 08 26 29.0 (Z)
 i 35.0 (Z)
 iP C 09 24 39.7 (Z)
 iS 52.9 (ZNE)
 e(P) 09 27 33.9 (Z)
 iP C 14 55 23.7 (Z)
 eP 17 17 54.1 (Z)
 iS 18 07.0 (ZNE)
 iP C 18 15 10.6 (Z)
 iS 39.4 (ZNE)
 iP C 19 56 22.8 (Z)
 iS 50.2 (N)
 eP 23 06 21.7 (Z)

 C : compresión
 D : dilatación

Noviembre 10, 1966



LECTURAS EN LA ESTACION SISMOGRAFICA DE AREQUIPA

(ARE, WWSSS)

Coordenadas de la estación : Latitud : 16°27'43.5" Sur
 Longitud : 71°29'28.6" Oeste
 Altitud : 2,451.6 mts.

Instrumentos : Benioff, Período Corto (Z,N,E).- Amplificación: 50,000
 Sprengnether, P. Largo (Z',N'E').- Amplificación: 1,500

NOVIEMBRE, 1966

1	eiP	01	53	35.7	(Z)	3	iP	D 02	22	53.4	(Z)		
	iS			52.2	(ZNE)		iS		23	14.1	(Z)		
	eiP	01	56	26.4	(Z)		iP	D 04	33	56.6	(Z)		
	iS		57	00.9	(E)		iS		34	01.8	(ZNE)		
	iP	C 03	44	41.8	(Z)		iP	C 05	07	58.6	(Z)		
	iS		45	03.6	(N)		iS		08	04.8	(ZNE)		
	eiP	08	23	38.9	(Z)		eiP	08	06	44.7	(Z)		
	iS		24	21.3	(NE)		eP	08	10	32.7	(Z)		
	iP	D 13	34	48.4	(Z)		eiP	C 09	03	31.2	(Z)		
	iS		35	05.5	(N'EE')		iS		04	29.0	(ZNE)		
	iP	D 14	41	03.2	(Z)		iP	D 11	05	07.2	(Z)		
	iS		42	02.5	(E)		iS			16.8	(ZNE)		
	iP	C 16	12	07.1	(Z)		e(P)	11	44	20.6	(Z)		
	iS			21.4	(Z)		iP	C 13	27	28.3	(Z)		
	iP	D 19	52	54.2	(Z)		iS		28	22.5	(NN'EE')		
	iS		53	05.1	(ZNE)		iP	C 16	31	26.0	(ZZ')		
	eiP	20	39	40.1	(Z)		e(S)		36	56.4	(N'E')		
	iS			54.5	(N)		e(L)		39	09.4	(E')		
	eP	21	24	28.8	(Z)		eL		46	33.4	(Z'N')	T:20.0 A:63.0	
	iS			49.2	(ZN)		iP	D 17	29	11.6	(Z)		
	iP	C 21	35	13.9	(Z)		iS			26.3	(N)		
	i(S)			17.5	(Z)		iP	C 21	31	50.0	(Z)		
2	iP	06	20	28.8	(Z)		iS		32	25.4	(ZE)		
	iS			35.8	(N'E')		e(P)	22	41	43.0	(Z)		
	eP	09	15	15.7	(Z)		e(S)		43	45.4	(Z)		
	iS		16	21.4	(N)		iP	D 23	37	56.2	(Z)		
	iP	C 20	25	27.9	(Z)		iS		38	53.4	(ZN)		
	iS			43.5	(ZN)		iP	D 23	43	11.0	(Z)		
	iP	C 21	24	21.9	(Z)		iS			25.8	(E)		
	iS			49.8	(E)		4	iP	C 02	49	29.7	(Z)	
	iP	D 21	40	39.7	(Z)		iS			55.2	(E)		
	iS		41	36.2	(E)		iP	C 03	38	12.9	(Z)		
3	iP	00	38	52.0	(Z)		iS			17.7	(NE)		
	iS		39	05.0	(ZNE)		eiP	C 04	02	11.8	(Z)	T:01.2 A:02.5	
	eP	01	57	56.3	(Z)		iP	C 04	34	50.5	(Z)		
	iS		59	57.7	(N)		iS		35	03.6	(NE)		
	eP	02	11	23.2	(Z)		iP	C 07	04	59.3	(Z)		
							iS		05	20.3	(NE)		

4 eP 08 59 01.5 (Z)
 i 13.5 (Z)
 eP 09 16 19.4 (Z)
 iS 17 07.0 (N)
 iP C 11 06 11.6 (Z)
 iS 40.8 (E)
 eP 14 50 32.5 (Z)
 iS 42.7 (ZNE)
 iP D 16 36 01.4 (Z)
 iS 21.5 (Z)
 iP C 17 32 35.4 (Z)
 iS 51.4 (ZNE)
 iP D 22 18 24.9 (Z)
 iS 19 37.2 (Z)
 5 iP D 03 15 52.4 (Z)
 iS 16 12.9 (ZN)
 iP D 04 51 30.5 (Z)
 iS 36.1 (ZNE)
 iP C 05 15 48.0 (Z)
 iS 16 42.8 (ZNE)
 iP C 08 01 45.0 (Z)
 iS 49.8 (ZNE)
 iP C 09 05 59.6 (Z)
 iP D 15 42 55.0 (Z)
 iS 43 08.2 (ZNE)
 eiP 21 03 36.5 (Z)
 iS 55.7 (ZE)
 iP C 22 04 50.7 (Z)
 iS 05 47.4 (ZNE)
 6 eP 01 41 21.4 (Z)
 iS 38.3 (NE)
 eP 01 47 28.0 (Z)
 iP C 03 43 08.8 (Z)
 eP 04 09 31.6 (Z)
 iS 10 11.8 (ZN)
 e(P) 06 05 02.1 (Z)
 eP 08 38 07.7 (Z)
 iS 39 44.7 (NE)
 eP 08 48 12.7 (Z)
 iS 23.9 (NE)
 eiP 09 33 11.7 (Z)
 iS 34 00.0 (Z)
 iP C 10 40 28.2 (Z)
 iS 41 14.0 (ZNE)
 eP 11 42 00.2 (Z)
 i 43 34.7 (ZN)

T:01.0 A:04.0

6 iP C 13 52 54.8 (Z)
 iS 53 25.2 (ZNE)
 iP C 23 40 21.2 (Z)
 iS 41 08.4 (NE)
 iP C 23 50 57.7 (Z)
 iS 51 44.4 (NN'EE')
 7 eP 03 25 50.4 (Z)
 iS 26 04.9 (ZNE)
 eP 03 27 48.6 (Z)
 iS 28 08.9 (ZN)
 eP 04 28 02.8 (Z)
 eP 04 58 18.8 (Z)
 iS 33.3 (ZNE)
 eP 05 03 03.5 (Z)
 e 04 57.1 (Z)
 iP C 07 01 02.5 (Z)
 i 33.8 (Z)
 iS 47.4 (ZZ'E)
 eiP 08 44 38.3 (Z)
 i(S) 45 07.8 (E)
 eP 12 51 33.5 (Z)
 iS 52 42.5 (NE)
 iP C 13 29 05.9 (Z)
 iS 58.4 (E)
 eP 14 30 44.3 (Z)
 iS 31 42.8 (NE)
 eiP 20 33 49.1 (Z)
 i 34 16.9 (N)
 8 eiP C 03 10 00.7 (Z)
 eP 03 27 06.0 (Z)
 iP C 04 16 01.1 (Z)
 eP 04 37 21.8 (Z)
 iS 41.2 (E)
 e(P) 05 33 48.3 (Z)
 iP D 11 40 12.8 (Z)
 iS 24.0 (ZNE)
 iP 12 51 30.2 (Z)
 iS 34.6 (ZNE)
 eP 14 57 51.2 (Z)
 i(S) 59 36.4 (NE)
 iP D 15 44 53.0 (Z)
 iS 45 06.4 (ZNE)
 iP D 21 01 39.8 (Z)
 iS 02 11.8 (Z)
 e(P) 23 52 19.6 (Z)

T:00.5 A:06.5

9	iP	D 02 00	27.3 (ZZ')						
	iS		50.0 (ZN'EE')						
	eP	03 49	28.9 (Z)						
	iS	50	10.8 (N)						
	iP	05 13	20.1 (Z)						
	iS	14	30.9 (ZNE)						
	eP	05 42	59.6 (Z)						
	i	43	15.1 (Z)						
	e	45	54.1 (Z)						
	i	46	29.0 (E)						
	eP	06 51	07.6 (Z)						
	iS		20.8 (NE)						
	iP	C 07 01	45.8 (Z)						
	iS	02	04.9 (ZNE)						
	iP	D 07 39	52.3 (Z)						
	iS	40	04.1 (ZNE)						
	eP	09 58	14.4 (Z)						
	iS		39.6 (N)						
	eP	10 51	42.5 (Z)						
	i(S)	52	09.7 (N)						
	eP	11 55	04.7 (Z)						
	iS		30.7 (NE)						
	iP	C 12 37	47.9 (Z)						
	iS	38	17.7 (E)						
	iP	C 16 37	04.3 (Z)						
	iS		20.0 (E)						
	iP	17 05	04.2 (Z)						
	iS		10.3 (ZN'EE')						
	iP	C 17 55	12.8 (Z)						
	iS	56	05.8 (ZNE)						
	e(P)	23 36	25.9 (Z)						
10	iP	D 00 51	39.0 (Z)						
	iP	D 01 47	21.1 (Z)						
	iS		34.7 (E)						
	eiP	03 06	06.5 (Z)						
	i(S)	09	03.0 (Z'N'E')	T:09.0	A:16.0				
	eP	04 41	57.1 (Z)						
	i(S)	42	12.6 (NE)						
	iP	C 05 44	43.2 (Z)						
	iP	C 06 38	49.7 (Z)						
	iS	39	19.1 (NE)						
	iP	D 10 05	24.8 (Z)						
	iP	10 51	37.6 (Z)						
	iS		44.4 (ZE)						
	iP	D 16 36	35.4 (Z)						
	iS		51.7 (Z)						
10	iP	C 20 44	42.0 (Z)						
	iS	45	11.3 (ZNE)						
	iP	C 22 50	56.6 (Z)						
	iS	51	22.3 (N)						
11	iP	D 04 06	29.2 (Z)						
	iS		48.2 (E)						
	e(P)	05 23	11.1 (Z)						
	eP	05 27	12.1 (Z)						
	iP	11 48	56.8 (Z)						
	iS	49	11.8 (ZNE)						
	iP	D 13 22	29.0 (Z)						
	iS		35.3 (Z)						
	iP	D 16 06	24.7 (Z)						
	iS		43.9 (E)						
	iP	D 22 37	13.3 (Z)						T:01.0 A:04.5
	i		40.4 (Z)						
	i(S)	41	00.4 (ZE)						
12	iP	C 02 19	22.2 (Z)						
	eiP	05 38	16.8 (Z)						
	e		47.6 (Z)						
	iP	C 07 45	42.8 (Z)						
	iS	46	04.5 (ZE)						
	eP	03 43	26.4 (Z)						
	eiP	09 19	36.2 (Z)						T:01.0 A:03.0
	iP	C 11 52	27.1 (Z)						
	iS	53	52.9 (ZEE')						
	iP	C 15 34	24.7 (Z)						
	iS	35	26.8 (E)						
	iP	D 16 15	48.9 (Z)						T:01.0 A:18.0
	iP	C 17 22	38.3 (Z)						
	iS	23	12.8 (Z)						
	iP	C 18 50	14.6 (ZZ')						
	iS		42.3 (Z'N')						
	e(P)	19 04	28.3 (Z')						
	e	14	12.3 (N'E')						
	e(L)	38	13.3 (Z')						T:28.0 A:17.0
	eP	19 14	22.4 (Z)						
	iP	D 22 27	13.0 (Z)						
	iS	28	08.2 (ZNE)						
	e(P)	23 31	51.6 (Z)						
13	eP	00 37	19.9 (Z)						
	iS		44.4 (Z)						
	eP	01 20	29.5 (Z)						
	e	22	25.0 (N'E')						
	eiP	02 58	32.8 (Z)						
	i	03 01	09.8 (Z)						

T:01.4 A:02.5

13	eiP	C 03 04	48.1 (Z)		14	iP	D 22 31	39.7 (Z)
	iP	C 03 41	25.1 (Z)			iS		59.3 (N)
	e(P)	04 23	20.2 (Z)			iP	C 23 22	27.8 (Z)
	eP	06 18	33.0 (Z)			iS		53.7 (NE)
	iS	19	25.0 (ZN)		15	eP	00 48	29.3 (Z)
	eP	06 27	51.4 (Z)			iS	49	09.3 (ZN)
	iS	29	26.1 (ZNE)			eP	01 17	06.0 (Z)
	iP	C 09 25	01.1 (Z)			iS	18	09.0 (ZNE)
	iS		16.3 (Z)			iP	D 01 25	29.5 (Z)
	iP	D 13 43	09.1 (Z)			i(S)	27	10.5 (N)
	iS		25.0 (E)			eP	02 00	13.3 (Z)
	eP	14 26	42.6 (Z)			iS		44.1 (N)
	i	27	22.8 (Z)			iP	C 03 12	09.6 (Z)
	i	29	06.2 (N'E')			iS		27.8 (NE)
	iP	D 16 40	03.9 (Z)			eP	03 22	30.6 (Z)
	iS		26.2 (ZN)			iS	23	00.1 (ZE)
	eP	19 05	11.8 (Z)			eP	05 18	25.1 (Z)
	iS		34.0 (ZNE)			iS		57.9 (ZN)
	iP	D 21 13	27.5 (Z)			iP	C 08 12	06.6 (Z)
	iS		42.8 (ZNE)			iS		22.8 (ZNE)
	iP	C 22 04	12.3 (Z)			eiP	C 17 14	44.0 (Z)
	iS		37.8 (ZE)			iP	C 17 33	03.6 (Z)
	iP	D 22 55	15.6 (Z)			iS		25.8 (ZNE)
	iS	56	09.1 (N)			iP	C 17 39	01.5 (Z)
14	iP	C 01 09	48.3 (Z)			iS		16.1 (ZNE)
	iS	10	05.9 (ZNE)		16	iP	D 02 31	19.7 (Z)
	eP	02 43	29.2 (Z)			iS		41.0 (ZN)
	iS		54.8 (NE)			iP	D 09 09	55.5 (Z)
	eP	08 26	05.3 (Z)			iS	10	17.0 (Z)
	iS	27	19.5 (ZNE)			iP	C 13 38	39.2 (Z)
	iP	D 08 45	39.9 (Z)			iS	39	39.0 (N)
	iS	46	00.6 (N'E')			iP	C 17 22	50.3 (ZZ')
	eP	08 54	35.9 (Z)			iS	23	10.3 (Z'N'E')
	iS	55	04.7 (E)			iP	D 17 49	29.2 (Z)
	eP	11 12	49.5 (Z)			iS		53.0 (NE)
	i	14	53.2 (Z)			iP	C 19 25	20.7 (Z)
	iP	C 11 41	38.9 (Z)			iS		45.8 (Z)
	iS	42	05.9 (E)		17	iP	D 02 23	25.9 (Z)
	iP	C 12 59	23.6 (ZZ')			iS		42.4 (Z)
	iS		55.7 (Z'N'E')			iP	02 53	26.8 (Z)
	iP	D 16 17	38.5 (Z)			iS		56.6 (E)
	iS	18	30.2 (ZNE)			iP	05 15	58.7 (Z)
	iP	C 20 38	28.1 (Z)			iS	16	50.1 (ZN)
	iS		44.5 (ZE)			iP	C 05 21	15.5 (Z)
	iP	C 21 32	55.8 (Z)			iP	07 38	14.6 (Z)
	iS	33	23.0 (ZNE)			iS		19.1 (Z'N')
	iP	21 45	24.6 (Z)			eP	09 39	20.6 (Z)
	iS	46	01.3 (ZNE)					

17	iP	C 16 35	11.5 (Z)		20	iP	C 03 48	37.1 (Z)	
	iS		27.4 (E)			iS		58.9 (ZNE)	
	e(P)	19 31	48.9 (Z)			iP	D 04 55	20.9 (Z)	
18	iP	D 00 51	31.0 (Z)			iS		41.3 (ZE)	
	iS	52	28.0 (E)			iP	D 06 05	06.0 (Z)	
	iP	C 08 24	31.1 (ZZ')			iS	06	04.2 (E)	
	iS		50.8 (NN'E')			iP	C 06 10	09.1 (Z)	
	iP	D 09 05	51.5 (Z)			iS		37.6 (E)	
	iS	06	15.4 (N)			eP	06 29	42.1 (Z)	
	iP	C 09 18	40.1 (ZZ')			iP	06 32	18.6 (Z)	
	i	19	35.7 (Z)			iS	33	31.2 (ZN)	
	e(S)	24	02.1 (N'E')			eP	07 34	44.1 (Z)	
	i(L)	26	52.1 (Z')	T:27.0 A:50.0		iS	35	22.5 (E)	
	eiP	C 13 03	13.0 (Z)			iP	D 07 36	08.2 (Z)	
	iS		34.7 (ZNE)			iS	37	06.1 (E)	
	iP	C 16 14	18.8 (Z)			iP	D 07 42	37.3 (Z)	
	iS		44.6 (E)			iS	43	31.7 (E)	
	iP	C 18 20	44.0 (Z)			i(S)		44.1 (E)	
	iS	21	13.7 (NE)			eP	16 57	25.7 (Z)	
19	iP	D 02 25	34.5 (Z)			e(S)	17 05	34.2 (N'E')	
	iS		45.0 (E)			e	12	18.2 (E')	
	eiP	C 03 03	01.5 (Z)			eP	17 41	57.5 (Z)	
	iS		32.8 (ZNE)			eiP	C 19 03	24.3 (Z)	
	iP	D 05 24	08.8 (Z)			eP	21 17	56.8 (Z)	
	iS		32.1 (NE)			i	18	06.5 (Z)	
	eP	08 24	30.6 (Z)			iS	19	09.7 (ZNE)	
	iS		58.3 (E)			21	iP	C 02 18	52.7 (Z)
	eP	08 51	20.7 (Z)				iS	19	18.0 (E)
	iS		48.1 (N)				eP	03 48	02.1 (Z)
	eP	09 58	34.1 (Z)				e		32.4 (Z)
	iS	59	15.8 (NE)				iP	D 04 14	09.5 (Z)
	eiP	C 10 54	25.7 (Z)				iS	15	14.8 (Z)
	iS	55	00.0 (ZNE)				eP	05 09	46.8 (Z)
	iP	D 11 11	31.1 (Z)				eS	10	17.9 (Z)
	iS		58.6 (N)				eP	05 13	30.6 (Z)
	iP	12 16	02.7 (ZZ')				iS	14	20.8 (N)
	iS		08.7 (N'E')				iP	C 06 58	51.2 (Z)
	iP	C 17 05	18.4 (Z)				iS	59	16.3 (ZNE)
	iS		36.2 (E)				eP	07 33	40.1 (Z)
	eP	18 22	47.8 (Z)				iS	34	17.0 (E)
	i		55.3 (Z)				eP	11 20	33.7 (Z)
	i(S)	24	46.8 (NN'EE')				eP	12 08	35.7 (Z)
	i(L)	25	04.3 (N')				iS	09	47.0 (N)
	e(L)	26	15.3 (E')	T:15.0 A:41.0			iP	D 12 59	13.1 (Z)
	iP	D 20 28	04.3 (Z)				iS		17.9 (ZNN'E)
	iS		25.8 (N)				iP	D 13 17	44.2 (Z)
20	eP	01 54	19.2 (Z)				iS		51.2 (ZNE)
	i		26.5 (Z)						
	i	55	45.8 (ZN')						

22 eP 02 24 17.0 (Z)
 eiP 06 48 11.1 (Z)
 i 23.6 (Z)
 i 51 06.0 (Z)
 e 07 05 20.1 (Z)
 e 18 06.1 (Z'E)
 e 24 07.1 (Z)
 iP C 07 10 30.8 (Z)
 e 15 30.3 (Z)
 eP 16 20 20.8 (Z)
 iS 36.3 (N)
 iP C 16 48 47.8 (Z)
 i(S) 49 03.5 (N)
 eP 20 35 53.3 (Z)
 iS 55.6 (Z)
 iP D 23 13 15.3 (Z)
 iS 32.4 (ZNE)

23 eP 03 50 46.9 (Z)
 eS 51 03.6 (Z)
 eP 04 35 16.8 (Z)
 iS 28.4 (ZNE)
 iP C 04 45 49.5 (Z)
 iS 46 35.5 (ZNE)
 eP 05 08 54.1 (Z)
 iS 09 30.1 (NE)
 iP D 10 31 23.5 (Z)
 iS 44.6 (ZNE)
 eiP C 12 27 59.9 (Z)
 iS 28 27.2 (ZNE)
 iP D 16 36 48.7 (Z)
 iS 37 04.0 (NE)
 iP D 18 02 05.8 (Z)
 iS 03 10.3 (ZE)
 iP C 20 16 02.9 (Z)
 iS 18.5 (Z)
 iP C 20 34 37.3 (Z)
 iS 35 07.3 (ZNE)

24 iP C 02 50 32.4 (Z)
 iS 49.3 (NE)
 eP 03 12 35.5 (Z)
 iS 13 08.7 (ZE)
 iP D 08 42 47.1 (Z)
 iS 43 04.0 (ZNE)
 iP C 09 07 12.6 (Z)
 iS 30.1 (N)
 iP D 12 40 43.2 (Z)
 iS 54.2 (ZNE)

24 eP 16 51 42.2 (Z)
 e 58 37.2 (Z'N'E')T:28.0 A:56.0
 iP D 19 30 23.5 (Z)

25 eP 01 43 17.0 (Z)
 iP C 02 11 33.0 (Z)
 iS 12 00.8 (N)
 iP D 04 29 11.5 (Z)
 iS 30 14.9 (ZNE)
 eiP C 04 53 35.2 (Z) T:01.2 A:02.0
 iP D 08 09 32.3 (Z)
 iS 47.6 (ZNE)
 iP C 08 15 40.1 (Z)
 e(S) 16 09.1 (N)
 iP C 10 43 48.1 (Z)
 iS 44 21.6 (N)
 iP D 11 02 33.4 (Z)
 iS 03 40.8 (ZNE)
 i(S) 04 05.0 (ZN)
 eP 11 21 32.7 (Z)
 iP D 14 17 36.9 (Z)
 iS 18 00.7 (ZE)
 eiP D 18 07 25.7 (Z)
 eiP 19 02 46.3 (Z)
 i 03 48.6 (ZE)

26 iP C 02 20 25.4 (Z)
 iS 22 00.2 (NE)
 i(S) 23 01.4 (N)
 eP 02 27 04.0 (Z)
 e 29 10.5 (Z)
 e(P) 05 45 07.8 (Z)
 iP D 06 09 52.6 (Z) T:01.0 A:02.5
 eP 06 12 03.6 (Z)
 iS 13 14.2 (E)
 eP 07 11 03.6 (Z)
 iS 21.4 (E)
 eiP D 08 02 33.6 (Z)
 iS 03 52.5 (ZE)
 i(S) 04 37.8 (E)
 e(P) 08 08 51.6 (Z)
 i 09 36.4 (Z)
 iP D 09 57 41.4 (Z)
 i(S) 58 08.8 (N)
 iS 14.1 (ZNE)
 eiP D 10 19 22.1 (Z)
 iS 20 23.1 (ZE)
 eP 10 45 04.7 (Z)
 e 46 16.9 (Z)

26 iP C 15 28 37.9 (Z)
 iS 47.4 (N)
 eiP D 17 41 57.9 (Z)
 iS 42 12.5 (NE)
 iP C 17 52 08.1 (Z)
 iS 42.5 (N)
 27 eP 04 25 50.9 (Z)
 iS 26 17.3 (N)
 eP 04 43 25.3 (Z)
 iS 44 23.4 (Z)
 eP 06 06 10.9 (Z)
 iS 36.1 (N)
 eP 06 12 08.6 (Z)
 iS 36.2 (N)
 iP D 14 00 33.0 (Z)
 eP 16 40 54.1 (Z)
 eP 19 26 14.8 (Z)
 i 59.2 (N)
 iP D 23 24 27.3 (Z)
 i 49.8 (N)
 28 iP C 00 10 26.7 (Z)
 iS 53.8 (N)
 eP 00 19 45.1 (Z)
 iS 20 04.6 (ZNE)
 iP C 00 31 07.5 (Z)
 iS 38.0 (E)
 iP C 00 54 34.5 (Z)
 iS 57.0 (E)
 iP C 01 58 46.8 (Z)
 iS 59.7 (ZNE)
 eiP D 03 20 33.7 (Z)
 eS 21 01.3 (E)
 iP D 04 27 56.7 (Z)
 iS 28 02.5 (ZNE)
 eiP D 05 12 04.8 (Z)
 eS 38.6 (ZN)
 eP 05 51 47.9 (Z)
 iS 53.6 (ZNE)
 eP 07 11 39.3 (Z)
 iS 12 36.1 (ZNE)
 eP 07 38 20.6 (ZZ')
 i 39 01.0 (Z)
 e(S) 42 53.1 (N'E')
 i 44 30.1 (N')
 eL 49 17.1 (Z')
 eP 09 21 55.5 (Z)
 iS 22 53.8 (N)

T:01.0 A:06.0

T:01.1 A:15.5

T:16.0 A:32.0

28 eP 10 14 42.1 (Z)
 iS 15 54.1 (ZN)
 iP C 10 44 18.1 (Z)
 iS 25.1 (ZNE)
 iP C 10 50 23.0 (Z)
 iS 49.5 (NE)
 eP 11 27 21.7 (Z)
 iS 36.2 (ZNE)
 eP 12 28 58.0 (Z)
 iS 29 10.6 (ZNE)
 iP C 22 23 34.0 (Z)
 iS 58.9 (N)
 29 eiP D 02 00 28.5 (Z)
 iS 46.3 (E)
 iP D 02 37 47.9 (Z)
 iS 38 25.6 (ZNE)
 iP 07 03 02.8 (Z)
 iS 08.4 (ZNE)
 iP C 08 15 52.3 (Z)
 iS 16 13.4 (ZE)
 eP 08 24 45.4 (Z)
 iS 25 06.9 (ZNE)
 eiP D 12 11 43.2 (Z)
 iS 12 42.0 (NE)
 iP D 15 30 04.9 (Z)
 iS 50.1 (NE)
 iP C 16 23 54.7 (Z)
 iS 24 53.3 (ZNE)
 eP 17 45 54.7 (Z)
 iS 46 42.7 (N)
 eP 19 54 08.8 (Z)
 i 43.5 (Z)
 eiP D 22 44 18.3 (Z)
 iS 45 06.7 (ZNE)
 iP D 22 54 01.0 (Z)
 iS 40.5 (Z)
 e 23 10 52.3 (N')
 e(L) 12 50.3 (Z'E')
 30 e(P) 00 50 10.8 (Z)
 eP 02 34 46.9 (Z)
 iP C 04 38 57.1 (Z)
 iS 39 18.8 (NE)
 eP 05 24 41.4 (Z)
 iS 25 34.3 (N)
 iP C 05 39 50.3 (Z)
 iS 55.0 (ZNE)

30 eP 05 43 05.9 (Z)
iP D 08 00 28.3 (Z)
iS 31.5 (ZNE)
iP C 08 10 24.2 (Z)
iS 27.7 (ZNE)
eIP 15 00 59.5 (Z)
i 01 12.7 (ZN)
iS 02 18.2 (ZNE)
i(S) 47.2 (Z'N'E')

30 iP D 16 13 09.8 (Z)
iS 30.8 (ZE)
iP D 16 44 48.7 (Z)
iS 45 09.3 (ZN)
iP 16 47 56.0 (Z)
iP 19 11 59.5 (Z)
iS 12 04.8 (ZNE)

C : compresión
D : dilatación

Diciembre 10, 1966

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LECTURAS EN LA ESTACION SISMOGRAFICA DE AREQUIPA

(ARE, WWSSS)

Coordenadas de la estación : Latitud : 16°27'43.5" Sur
 Longitud : 71°29'28.6" Oeste
 Altitud : 2,451.6 mts.

Instrumentos : Benioff, Período Corto (Z,N,E).- Amplificación: 50,000
 Sprengnether, P. Largo (Z',N',E').- Amplificación: 1,500

DICIEMBRE, 1966

1 iP C 00 18 20.0 (ZZ')
 i(S) 35.0 (Z'E')
 iS 45.0 (Z'N')

eP 03 42 50.0 (Z)
 eP 03 54 50.0 (Z)

eiP C 04 25 25.5 (Z)
 iS 26 16.6 (ZE)

eP 05 14 39.1 (Z)
 i 15 27.1 (Z)
 e 16 14.1 (Z)

e 05 16 20.1 (Z'N'E')
 e 26 00.1 (Z'N'E')

iP D 05 26 05.4 (Z)
 i 44.1 (Z)

eP 05 29 42.1 (Z)
 e 30 04.2 (Z)

eP 05 34 42.3 (Z)
 eP 05 56 15.6 (Z)

iP C 15 08 07.7 (Z)
 iS 29.2 (ZN)

iP C 16 40 12.7 (Z)
 iS 28.0 (ZE)

2 iP C 01 26 02.4 (Z)
 iS 18.8 (ZN)

eP 01 31 46.6 (Z)
 iS 32 04.1 (Z)

eP 03 27 02.3 (Z)
 eP 04 40 23.5 (Z)
 iS 41 08.7 (E)

eiP D 09 51 17.6 (Z)
 i 38.1 (Z)

iP D 16 10 24.5 (Z)
 iS 11 12.8 (ZNE)

iP 21 48 08.2 (Z)
 iS 22.0 (ZNE)

iP D 23 02 50.8 (Z)
 iS 04 29.8 (ZNE)

T:01.2 A:04.5

3 iP C 00 06 17.3 (Z)
 eP 02 32 05.3 (Z)
 iS 44.0 (N)

iP C 02 47 38.4 (Z)
 iS 44 08.5 (E)

eP 04 24 25.9 (Z)
 iS 30.6 (ZNE)

eP 05 58 28.8 (Z)
 iS 59 23.1 (ZNE)

eP 06 07 35.6 (Z)
 e(P) 23 38 02.3 (Z)

4 iP C 01 31 47.0 (Z)
 iS 53.0 (ZNE)

eP 05 27 00.6 (Z)
 iS 28 06.5 (ZNE)

iP D 06 55 06.5 (Z)
 iS 56 09.9 (ZNE)

eiP C 14 23 34.4 (Z)
 i 42.7 (Z)

iP D 23 45 41.6 (Z)
 iS 48.3 (ZNE)

5 iP D 02 50 55.5 (Z)
 iS 51 23.8 (ZNE)

eiP D 04 38 37.1 (Z)
 eP 06 06 54.9 (Z)
 eP 09 07 34.6 (Z)
 iS 53.9 (E)

iP C 12 45 14.1 (Z)
 i 46 11.2 (Z)
 iS 14.7 (ZNE)

iP D 21 03 36.7 (Z)
 iS 52.8 (ZN)

iP D 22 47 35.5 (Z)
 iS 42.3 (ZNE)

iP C 23 32 55.3 (Z)
 iS 33 39.1 (Z)

T:00.8 A:04.5

6 iP C 00 54 24.0 (Z)
 eP 04 44 02.1 (Z)
 iS 22.3 (ZNE)
 eP 05 30 51.6 (Z)
 e 37 27.1 (Z'N'E')
 eP 06 52 08.1 (Z)
 iS 31.5 (ZNE)
 eiP C 08 27 04.6 (Z)
 aS 32.9 (N)
 eP 08 42 21.8 (Z)
 iS 35.6 (ZNE)
 eP 09 31 11.8 (Z)
 i 15.1 (Z)
 iS 51.0 (E)
 i(S) 53.4 (ZN)
 eP 10 04 15.1 (Z)
 iP C 21 10 43.1 (Z)
 e 18 02.3 (Z'N'E')
 iP C 21 19 30.3 (Z)
 7 iP C 04 14 09.9 (Z)
 iS 45.9 (NE)
 eiP 04 54 20.6 (Z)
 iP D 05 04 32.8 (Z)
 iS 53.4 (N)
 eP 05 12 59.0 (Z)
 iS 14 10.1 (NE)
 eP 06 55 55.6 (Z)
 iS 56 36.9 (NE)
 eP 08 45 29.7 (Z)
 iS 53.2 (Z)
 iP C 08 54 40.0 (Z)
 iS 55 03.2 (NE)
 eP 10 15 20.7 (Z)
 iS 30.2 (ZN)
 eP 17 19 11.3 (Z)
 iP D 18 42 27.5 (Z)
 iS 43 25.5 (E)
 8 iP D 00 01 12.3 (Z)
 eP 04 58 06.1 (Z)
 i 24.6 (Z)
 iP C 05 21 49.6 (Z)
 iS 22 03.6 (ZNE)
 e(P) 12 53 26.5 (Z)
 iP D 20 28 27.6 (Z)
 iP C 21 18 19.8 (Z)
 iS 31.8 (ZNE)
 iP D 23 08 41.9 (Z)
 iS 59.4 (NE)

9 eP 00 11 38.3 (Z)
 iP 00 11 42.6 (Z)
 iS 12 02.0 (ZNE)
 eP 00 31 28.9 (Z)
 iP D 00 32 27.0 (Z)
 iS 50.6 (ZNE)
 eP 00 42 21.3 (Z)
 iP D 01 05 29.0 (Z)
 i 06 39.0 (ZNE)
 iS 07 17.5 (ZNE)
 eiP C 02 03 51.0 (Z)
 i 05 21.8 (E)
 iS 25.0 (ZNE)
 iP 04 08 34.0 (Z)
 eS 09 04.1 (E)
 eiP 06 16 53.9 (Z)
 iS 17 06.3 (ZNE)
 iP 10 07 35.8 (Z)
 iS 08 08.2 (N'E')
 iP D 11 25 59.0 (Z)
 iS 26 11.3 (ZNE)
 eiP 13 35 00.3 (Z)
 i 52.7 (ZNE)
 e 37 31.2 (N')
 eP 13 39 56.5 (Z)
 eS 40 33.1 (E)
 eiP 16 40 32.7 (Z)
 eS 48.4 (N)
 iP D 16 49 39.2 (Z)
 iS 54.9 (E)
 10 iP C 02 00 56.6 (Z) T:00.5 A:04.0
 eiP C 02 51 11.3 (Z) T:00.8 A:10.0
 eP 06 12 41.6 (Z)
 eS 57.6 (ZNE)
 eP 08 21 41.6 (Z)
 iS 59.6 (ZNE)
 eP 08 31 33.1 (Z)
 eP 09 13 06.1 (Z)
 iS 24.5 (ZNE)
 iP C 10 15 06.9 (Z)
 iS 11.6 (ZNE)
 eiP D 10 26 48.7 (Z)
 iS 27 26.0 (E)
 eP 10 40 35.7 (Z)
 iS 42 05.5 (Z)
 eP 13 13 36.2 (ZZ')
 e(S) 19 12.2 (Z'N'E')
 e(L) 22 06.2 (N'E')
 iL 26 06.2 (Z') T:27.0 A:150.0



10 iP D 15 50 47.6 (Z)
 iS 58.2 (N)
 iP D 15 56 30.1 (Z)
 iS 57 33.4 (ZNE)
 eP 19 29 09.1 (Z)
 iS 58.3 (ZN)
 eP 20 24 15.1 (Z)
 iS 54.0 (ZN)
 11 eP 00 46 02.4 (Z)
 eP 04 31 47.3 (Z)
 iS 55.1 (ZNE)
 eP 04 42 23.6 (Z)
 iS 52.9 (ZE)
 eP 06 34 47.6 (Z)
 iS 35 05.6 (ZNE)
 iP D 10 36 40.2 (Z)
 iS 37 16.0 (ZNE)
 eiP C 14 57 51.2 (Z)
 iS 58 37.7 (ZN)
 iP C 16 40 56.5 (Z)
 iS 42 23.4 (E)
 eP 20 11 37.5 (Z)
 eiP C 20 27 53.3 (Z)
 12 eP 01 53 02.0 (Z)
 iS 17.5 (ZNE)
 iP C 03 02 11.5 (Z)
 iS 31.3 (ZNE)
 eiP D 04 36 49.3 (Z)
 iS 37 23.1 (ZNE)
 iP C 11 01 26.3 (Z)
 iS 46.1 (ZE)
 iP C 16 37 35.3 (Z)
 iS 50.5 (E)
 iP D 23 06 48.7 (Z)
 iS 07 38.0 (Z)
 13 iP D 01 26 08.0 (Z)
 iS 12.8 (ZNE)
 eP 02 04 08.9 (Z)
 iS 52.0 (ZNE)
 e(P) 03 03 29.5 (Z)
 e 05 25.5 (Z)
 iP C 04 05 45.1 (Z)
 iS 06 00.1 (ZE)
 eiP D 04 11 21.1 (Z)
 iS 31.6 (N)
 iP D 05 47 49.2 (Z)
 iS 48 00.1 (N)

13 eP 09 31 03.0 (Z)
 iS 24.4 (ZN)
 eiP 10 29 56.7 (Z)
 eP 11 00 33.4 (Z)
 iP D 12 26 03.9 (Z)
 i 28 04.7 (Z)
 iP C 13 54 35.0 (Z)
 iS 55 18.1 (N)
 14 eP 02 51 25.5 (Z)
 iS 52 00.4 (Z)
 iP C 05 40 04.1 (Z)
 iS 29.5 (ZNE)
 eP 05 52 05.6 (Z)
 eP 06 49 48.3 (Z)
 e 51 08.6 (Z)
 iP C 08 25 29.0 (Z)
 iS 26 33.9 (Z)
 iP C 08 41 00.1 (Z)
 i 30.8 (ZE)
 iS 49.9 (E)
 eP 08 47 08.9 (Z)
 iP 14 28 03.2 (ZZ')
 iS 11.6 (N'E')
 iP C 15 10 41.7 (Z)
 iS 11 07.4 (Z)
 iP C 16 36 41.4 (Z)
 iP D 16 49 21.7 (Z)
 iS 48.1 (E)
 eP 19 48 14.3 (Z)
 iP C 20 27 55.5 (Z)
 iS 28 15.9 (NE)
 iP C 21 27 04.0 (ZZ')
 i 34.6 (ZZ')
 i 30 46.8 (Z)
 e(S) 54.3 (N'E')
 eL 22 12 14.3 (Z')
 iP 21 41 55.8 (Z)
 eiP 23 05 24.0 (Z)
 15 eiP D 00 04 09.6 (Z)
 iS 34.2 (ZNE)
 eP 00 42 29.2 (Z)
 iS 43 09.3 (N)
 eP 01 03 07.5 (Z)
 iP C 02 28 02.0 (Z)
 i 29 25.5 (Z)
 eP 02 30 47.2 (Z)
 iS 32 07.6 (ZN)

T:01.1 A:10.0

T:01.3 A:02.7

15 eP 03 03 51.8 (Z)
 iS 04 11.2 (ZNE)
 eP 06 10 13.1 (Z)
 eiP C 06 36 16.7 (Z)
 iS 35.9 (ZN)
 iP C 07 01 58.1 (Z)
 iS 02 29.4 (ZNE)
 iP C 11 24 14.7 (Z)
 iS 39.6 (Z)
 eiP C 11 47 40.7 (Z)
 i 48 19.2 (Z)
 i 49.9 (Z)
 iP C 22 48 35.5 (Z)
 iS 49 38.3 (E)

16 iP 01 43 59.1 (Z)
 iS 44 18.8 (ZN)
 iP 02 30 19.2 (Z)
 iS 25.0 (ZN)
 eP 02 51 56.5 (Z)
 eP 05 11 00.3 (Z)
 iS 18.1 (ZN)
 iP D 09 01 57.2 (Z)
 iS 02 15.1 (Z'N'E')
 eP 10 11 02.4 (Z)
 eS 32.2 (ZN)
 e(S) 38.4 (ZN)
 eP 10 52 34.2 (Z)
 eS 53 19.2 (NE)
 eP 11 38 28.5 (Z)
 iS 39 05.4 (ZNE)
 iP D 19 21 36.1 (Z)
 iS 48.3 (Z')
 eiP 21 12 08.0 (ZZ')
 i 13.6 (ZNE)
 i 24.0 (Z)
 e 15 50.3 (Z')
 e 59 56.3 (E')
 eL 22 11 44.3 (Z')
 eL 15 26.3 (Z')

T:28.0 A:03.0

17 iP C 01 08 40.5 (Z)
 iS 09 07.0 (ZNE)
 eP 02 52 55.8 (Z)
 iS 53 13.5 (NE)
 eP 03 27 37.4 (Z)
 iS 28 24.3 (NE)
 eP 03 35 35.4 (Z)
 eP 05 19 46.1 (Z)
 iS 20 27.3 (Z)

17 iP C 05 28 07.1 (Z)
 eP 06 53 30.4 (Z)
 e 55 08.1 (Z)
 iP C 07 37 22.1 (Z)
 iS 35.3 (ZNE)
 eiP 08 06 15.9 (Z) T:01.0 A:02.2
 eP 09 15 36.4 (Z)
 i 43.2 (Z) T:00.9 A:02.5
 ei(P) 09 17 22.6 (Z)
 iP D 12 28 43.7 (Z)
 iS 29 16.1 (E)
 iP D 16 40 39.0 (Z)
 i 54.5 (Z)
 iS 41 09.3 (E)
 i 25.2 (Z)

iP C 17 29 55.1 (Z)
 iS 30 10.6 (NE)
 eiP C 17 42 53.4 (Z)
 iS 44 06.3 (N'E')
 iP C 22 49 36.6 (Z)
 iS 51.0 (ZNE)

18 eP 00 43 17.0 (Z)
 iP C 03 16 55.0 (Z)
 iS 17 06.7 (NE)
 e(P) 04 06 46.6 (Z)
 iP C 04 19 00.9 (Z)
 eP 05 13 31.4 (Z)
 eP 05 17 19.3 (Z) T:00.7 A:02.4
 i 28.9 (Z) T:00.8 A:03.2
 i 19 55.5 (Z)

iP C 09 47 13.1 (Z)
 iS 46.1 (ZNE)
 eiP D 10 23 57.2 (Z)
 iS 24 59.1 (ZNE)
 eP 11 35 08.2 (Z)
 e(P) 12 05 40.9 (Z)
 e(P) 12 34 46.9 (Z)

iP D 13 57 06.2 (Z)
 iS 23.7 (ZNE)
 iP D 17 29 29.8 (Z)
 iS 44.3 (E)
 iP C 21 14 29.8 (Z)
 iS 43.8 (ZNE)
 iP D 23 09 11.2 (Z)
 i 11 11.3 (Z)
 iS 12 20.7 (ZE) T:00.7 A:04.5
 T:01.2 A:25.0

18	iP	C 23 27 56.3 (Z)		21	eP	05 36 22.2 (Z)	
	iS	28 31.1 (E)			eP	05 44 12.4 (Z)	
19	eIP	C 00 01 49.4 (ZZ')			iS	36.6 (N)	
	iS	03 49.4 (N)			e(P)	09 11 06.7 (Z)	
	i(L)	05 17.0 (E')	T:16.0 A:33.0		e	13 21.7 (Z)	
	iP	C 02 10 48.0 (ZZ')			e(S)	19 44.2 (Z'N'E')	
	iS	11 00.0 (N'E')			e	37 56.2 (N'E')	
	eP	03 06 11.1 (Z)			eIP	C 09 21 08.8 (Z)	T:01.0 A:03.0
	iS	07 04.4 (ZN)			i	21.4 (Z)	T:01.2 A:03.5
	iP	C 04 41 33.4 (Z)			e	25 16.5 (Z)	
	iS	45.6 (ZNE)			iP	D 10 00 34.6 (Z)	
	iP	C 06 13 07.7 (Z)			iS	01 21.2 (N)	
	i(S)	38.7 (E)			eP	10 51 02.9 (Z)	
	iP	C 06 37 40.0 (Z)			iS	48.5 (ZNE)	
	iS	52.8 (ZNE)			iP	C 10 59 57.4 (Z)	
	eP	06 44 54.3 (Z)			iS	11 00 11.3 (ZNE)	
	iS	45 47.4 (N)			eP	23 53 03.0 (Z)	
	eP	07 18 56.6 (Z)		22	eP	02 00 29.3 (Z)	
	eP	09 16 09.6 (Z)			iS	01 54.6 (ZN)	
	iS	33.8 (ZNE)			eIP	02 10 24.3 (Z)	
	iP	D 15 37 56.9 (Z)			iS	50.1 (ZN)	
	iS	38 13.7 (E)			eP	04 34 24.5 (Z)	
20	eP	00 18 09.9 (Z)			iS	35 21.9 (N)	
	eS	19 12.0 (NE)			eP	04 49 57.0 (Z)	
	eP	05 16 37.9 (Z)			iS	50 21.1 (Z)	
	iS	50.3 (ZNE)			eIP	D 06 25 38.6 (Z)	
	eP	06 09 04.4 (Z)			iS	49.9 (NE)	
	eS	10 06.4 (ZNE)			eP	07 55 04.6 (Z)	
	iP	C 09 30 21.2 (Z)			iP	C 08 20 38.1 (Z)	
	iS	34.9 (NE)			iS	48.8 (ZNE)	
	eP	11 02 16.3 (Z)			eP	08 27 35.4 (Z)	
	iS	38.1 (ZNE)			iS	28 38.7 (E)	
	iP	D 12 29 37.1 (ZZ')			iP	C 10 27 29.2 (Z)	
	iS	31 33.8 (Z'N'E')	T:12.0 A:07.0		iS	46.0 (NE)	
	iP	C 15 41 04.0 (ZZ')			iP	C 10 42 48.4 (Z)	
	e	50 08.3 (N')			iS	43 07.4 (ZN)	
	iP	C 16 39 10.5 (Z)			e(P)	15 12 22.8 (Z)	
	e(S)	41 03.3 (Z)			iP	D 15 57 50.2 (Z)	
	iP	D 17 32 45.9 (Z)			iS	58 12.6 (ZZ'N'E')	
21	iP	00 00 40.4 (Z)			iP	C 16 33 36.7 (Z)	
	iS	01 05.3 (NE)			iS	50.3 (N)	
	eP	01 53 31.0 (Z)			iP	D 16 44 38.3 (Z)	
	iS	54 03.0 (N)			i(S)	45 13.3 (N)	
	eP	03 21 24.1 (Z)			iP	22 03 37.9 (Z)	
	iS	53.6 (N)			iS	04 00.4 (ZNE)	
	eP	04 24 16.0 (Z)			iP	C 23 22 49.6 (Z)	
	iP	C 04 50 34.7 (Z)			iS	59.7 (N)	
	iS	52.1 (E)			iP	D 23 41 18.7 (Z)	
					iS	42 12.0 (ZNE)	

23 eP 01 40 00.3 (Z)
 eP 07 52 31.6 (Z)
 iS 53 14.1 (ZNE)
 e(P) 09 50 02.3 (Z)
 iP 04.0 (ZNE)
 e(S) 51 03.6 (N'E')
 iP C 11 23 48.2 (Z)
 iS 24 45.2 (E)
 eiP 16 09 21.7 (Z)
 i 37.3 (Z')
 e 12 06.3 (Z')
 i(S) 13 08.3 (NN'EE')
 eL 45 18.3 (N'E')
 iL 53 27.3 (Z') T:30.0 A:22.0
 eP 19 01 22.8 (Z)
 iP 21 44 08.1 (Z)
 eS 20.4 (N')
 24 iP D 03 22 11.7 (Z)
 iS 23 15.1 (Z)
 eP 04 45 36.2 (Z)
 iS 51.3 (ZN)
 eP 05 50 09.9 (Z)
 iS 52.4 (NE)
 iP C 05 58 12.7 (Z)
 iS 24.9 (ZNE)
 eP 06 20 42.1 (Z)
 eP 07 06 40.6 (Z)
 eS 07 54.6 (N)
 eP 15 34 19.8 (Z)
 iS 35 05.5 (E)
 iP 16 07 12.3 (Z)
 iS 35.9 (NE)
 25 iP D 02 32 18.5 (Z)
 iS 36.0 (NE)
 iP C 06 43 15.6 (Z)
 iS 28.9 (ZNE)
 iP C 09 39 31.1 (Z)
 iS 40 00.7 (E)
 eP 12 30 57.0 (Z)
 i(P) 12 54 00.2 (Z)
 iS 58.7 (N)
 eP 20 24 44.7 (Z)
 i 26 47.3 (Z)
 26 iP D 01 32 42.1 (Z)
 iS 58.1 (E)
 eP 03 07 42.3 (Z)
 iS 08 40.9 (E)

26 iP D 03 24 00.9 (Z)
 iS 16.5 (ZNE)
 iP D 05 30 54.1 (Z) T:00.7 A:06.2
 iP C 05 48 36.1 (Z)
 iS 54.2 (ZNE)
 eP 09 58 14.5 (Z)
 iS 59 09.7 (N)
 iP C 10 18 13.3 (Z)
 iS 47.4 (N)
 iP C 10 31 33.7 (Z)
 iS 32 00.7 (ZN)
 iP C 11 55 52.2 (Z)
 iS 56 12.9 (NN')
 eiP 15 33 28.5 (Z)
 e 35 25.3 (Z)
 i 36 43.3 (Z)
 iP C 20 32 08.4 (Z)
 i(S) 34 00.7 (ZE)
 i(L) 35 18.4 (Z')
 iP C 22 57 25.2 (Z)
 iS 29.9 (ZNE)
 27 eiP 00 57 22.7 (Z)
 eP 01 41 48.8 (Z)
 eP 04 23 05.7 (Z)
 iS 24 18.7 (NE)
 eP 06 01 37.1 (Z)
 eP 06 42 34.2 (Z)
 iS 43 15.0 (E)
 iP C 07 51 38.1 (Z)
 iS 52 33.1 (NE)
 eiP D 10 01 37.5 (Z)
 i 58.2 (N)
 eP 12 27 12.2 (Z)
 i 14.2 (Z)
 iS 28 07.0 (E)
 eP 15 01 08.5 (Z)
 i 10.3 (Z)
 iS 57.5 (N)
 eiP C 15 26 16.3 (Z)
 eP 21 28 56.7 (Z)
 i 31 32.4 (Z)
 28 eP 00 41 26.2 (Z)
 i 33.7 (Z)
 eP 03 32 13.0 (Z)
 iS 30.0 (NE)
 iP D 04 46 16.4 (Z)
 iS 47 16.4 (NE)

28 iP D 04 55 48.1 (Z)
 iS 56 00.9 (ZNE)
 iP C 08 20 15.3 (Z)
 eiP 10 11 38.6 (Z)
 iS 13 14.9 (N)
 iP C 11 31 30.2 (Z)
 iS 33 03.2 (E)
 iP C 11 56 36.8 (Z)
 iS 58 09.9 (N)
 iP C 14 41 03.2 (Z)
 iS 42 37.7 (ZNE)
 iP C 16 41 57.2 (Z)
 i 44 30.0 (Z)
 iP D 17 44 02.7 (Z)
 iS 46 31.7 (N)
 eiP D 21 05 24.0 (Z)
 iS 06 58.0 (N)
 iP D 22 42 11.3 (Z)
 iS 24.3 (NE)
 eP 22 45 41.6 (Z)
 i 48 13.5 (Z)
 29 iP D 00 22 10.5 (Z)
 iS 23 47.0 (E)
 eP 00 47 42.0 (Z)
 i 50 14.8 (E)
 eP 01 07 15.5 (Z)
 iS 08 13.0 (E)
 eiP 01 50 37.0 (Z)
 eS 52 16.5 (Z'N'E')
 eP 05 10 58.1 (Z)
 iS 12 39.0 (ZE)
 eP 05 39 09.1 (Z)
 iS 40 45.3 (Z)
 eP 06 00 59.6 (Z)
 iS 02 32.8 (ZNE)
 eiP 07 27 55.3 (Z)
 iS 29 30.4 (E)
 iP C 08 23 25.7 (Z)
 iS 41.1 (ZNE)
 iP C 10 31 03.2 (Z)
 iS 22.2 (ZNE)
 iP 13 22 20.2 (Z)
 i 24 16.0 (N)
 iP D 11 29 52.6 (Z)
 iS 32 56.2 (ZN)
 eiP D 12 03 55.2 (Z)
 e(S) 10 01.7 (N')
 i 13 04.2 (N'E')

29 eP 12 56 15.2 (Z)
 eiP 13 29 12.4 (Z)
 i 32 22.4 (Z)
 iP C 17 20 52.5 (Z)
 iS 21 11.3 (ZNE)
 iP D 21 57 38.3 (Z)
 eS 55.8 (Z'N')
 eiP C 22 23 53.7 (ZZ')
 eS 30 03.3 (N'E') T:11.0 A:09.5
 eL 34 34.3 (Z')
 eiP D 23 24 47.7 (Z)
 30 iP D 02 22 39.6 (Z)
 iS 24 11.7 (E)
 iP D 02 42 48.5 (Z)
 eiP 03 06 45.4 (Z)
 iS 08 24.7 (E)
 iP D 04 06 11.3 (Z)
 iS 07 50.1 (NE)
 eiP C 04 43 30.1 (Z)
 i 54.9 (Z)
 eP 07 00 18.9 (Z)
 iS 40.8 (E)
 iP C 09 55 35.6 (Z)
 iS 57 08.2 (EE')
 iP 11 58 00.4 (Z)
 iS 59 39.9 (E)
 iP D 12 32 28.0 (Z)
 iS 34 01.7 (NE)
 i 55.6 (Z)
 iP D 13 49 07.2 (Z)
 iS 26.1 (ZNE)
 eP 17 09 26.8 (Z)
 iS 10 44.0 (E)
 iP C 17 12 01.6 (Z)
 iS 13 36.3 (ZNE)
 iP 22 58 14.8 (Z)
 iS 24.5 (N'E')
 31 iP C 00 58 03.8 (Z)
 iS 32.1 (ZNE)
 eiP 01 29 51.4 (Z)
 eP 02 18 10.8 (Z)
 iS 19 25.0 (N)
 iP C 04 13 00.7 (Z)
 iS 13.2 (NE)
 iP D 12 33 59.5 (Z)
 iS 35 36.2 (NE)
 eiP 16 44 15.8 (Z)
 iS 45 55.3 (ZNE)

1 e 18 38 16.3 (Z)
i 43 07.3 (Z'N'E')
eL 52 53.3 (E')
eP 18 42 19.0 (Z)

31 iP C 18 52 10.1 (Z)
i 56 26.5 (Z)
iP D 19 41 32.0 (Z)
iS 42 04.3 (ZNE)
eP 22 48 25.4 (Z)

C : compresión
D : dilatación

Enero 05. 1967



Joseph