

LECTURAS EN LA ESTACION SISMOGRAFICA DE AREQUIPA

26 MAY 1969

(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

ENERO, 1967

1 eP	03 15 43.3 (Z)		2 eP	16 24 46.2 (Z)	
iS	17 12.1 (N)		iS	26 17.3 (ZNE)	
e(P)	03 20 26.1 (Z)		eP	17 01 27.7 (Z)	
eP	03 56 09.9 (Z)		iS	53.3 (ZN)	
iS	20.3 (N)		eP	17 10 54.5 (Z)	
eP	06 19 23.1 (Z)		iS	12 31.7 (ZNE)	
iS	38.8 (ZNE)		i	13 27.2 (Z)	
iP	C 06 21 17.5 (Z)		iP	D 20 21 34.3 (Z)	
iS	46.5 (ZN)		iS	49.5 (Z)	
eP	07 19 23.6 (Z)		3 eP	01 11 56.7 (Z)	
i	45.9 (Z)	T:01.3 A:02.5	iS	13 24.5 (N)	
eP	07 45 41.6 (Z)		i	14 27.7 (Z)	
eP	07 48 31.6 (Z)		iP	C 03 44 34.1 (Z)	
iS	49 32.6 (Z)		iS	46.1 (ZNE)	
eiP	08 29 11.2 (Z)		eiP	D 03 50 03.5 (Z)	
eP	09 08 26.1 (Z)		iS	51 44.9 (NE)	
i	09 23.3 (Z)		eiP	D 04 59 39.1 (Z)	T:00.9 A:01.3
iP	C 09 55 35.8 (ZZ')		i	05 00 10.4 (Z)	
iS	53.2 (N'E')		e	05 55 36.1 (Z')	
eiP	C 13 15 43.2 (Z)		e	06 05 36.1 (N'E')	
iS	17 18.0 (ZNE)		e	12 30.1 (Z')	
iP	C 15 57 43.3 (Z)		e	23 13.1 (Z')	
iS	58.2 (ZNE)		e(L)	30 48.1 (Z')	
iP	C 18 35 36.9 (Z)		iP	C 10 46 07.5 (Z)	
iP	C 22 35 49.7 (Z)		i(S)	30.5 (Z)	
eP	23 39 45.9 (Z)		iP	C 13 00 44.2 (Z)	
iS	40 07.6 (NE)		iS	01 31.5 (ZNE)	
2 eiP	C 00 06 29.5 (Z)		iP	C 13 18 35.9 (Z)	
i	38.0 (Z)	T:01.5 A:05.5	iS	19 05.6 (NE)	
eP	02 27 25.5 (Z)		e(L)	22 20 56.4 (Z')	
iS	28 52.5 (Z)		4 eP	01 30 39.2 (Z)	
eP	02 48 50.5 (Z)		iS	45.7 (ZNE)	
eP	04 50 26.6 (Z)		iP	D 03 28 52.3 (ZZ')	
iS	51 31.2 (E)		iS	29 10.5 (N'E')	
iP	C 06 55 20.6 (ZZ')		eiP	D 04 01 44.1 (Z)	T:01.3 A:02.5
iS	50 31.4 (N'EE')		i	54.1 (Z)	
eiP	C 10 01 23.5 (Z)		e	02 52.3 (Z)	
i	34.2 (Z)		eP	04 06 45.6 (Z)	
iP	C 10 59 55.9 (Z)		iP	D 05 38 39.4 (Z)	
iS	11 01 28.4 (N)		iS	57.6 (ZNE)	
i	02 29.3 (Z)		eP	06 02 16.1 (Z)	
eP	13 53 02.3 (Z)		eS	03 28.6 (N)	
iS	52.0 (N)		eP	07 12 23.4 (Z)	
eP	15 09 25.1 (Z)		iS	43.8 (NE)	
iS	44.7 (ZNE)		e(P)	08 35 54.9 (Z)	
			iP	C 09 57 16.4 (Z)	
			iS	29.5 (ZNE)	



4 iP C 11 28 10.6 (Z)  
 i(S) 42.3 (NE)  
 iP D 16 45 37.4 (Z)  
 iS 54.6 (NE)  
 iP D 19 54 16.8 (Z)  
 e 51.3 (E')  
 eiP D 20 21 46.8 (Z)  
 i 24 58.8 (Z)  
 e 27 33.3 (N'E')  
 i 28 31.0 (Z)  
 e(L) 30 16.3 (Z')  
 iP C 22 57 21.8 (Z)  
 i 33.3 (Z)

T:00.9 A:05.0

T:00.9 A:06.0  
 T:01.1 A:08.5

5 eiP 00 34 22.2 (ZZ')  
 i 35 55.0 (Z)  
 i 38 04.0 (Z')  
 i(S) 44 53.0 (N')  
 iL 57 04.0 (E')  
 eiP 01 01 55.0 (Z)  
 i 03 39.0 (Z)  
 eP 04 38 04.8 (Z)  
 iS 20.6 (ZNE)  
 iP C 05 30 15.9 (Z)  
 iS 43.6 (NE)  
 eP 05 43 11.5 (Z)  
 iS 44 77.1 (N)  
 e(P) 06 33 21.1 (Z)  
 iP 06 34 31.7 (Z)  
 e(P) 08 45 10.1 (Z)  
 iP C 11 3 11.3 (Z)  
 iS 44.6 (N)  
 eiP 10 12 17.5 (Z)  
 iP D 11 22 49.2 (Z)  
 iS 23 57.2 (E)  
 iP 12 20 51.2 (Z)  
 iS 55.7 (NE)  
 eP 12 51 03.7 (Z)  
 iS 08.5 (E)  
 iP C 14 35 41.7 (Z)  
 iS 57.5 (E)  
 iP D 17 12 27.7 (Z)  
 iS 13 05.1 (ZE)  
 eP 18 05 43.3 (Z)  
 eP 18 38 33.3 (Z)  
 iS 55.5 (ZNE)

T:01.0 A:09.0

T:01.0 A:11.6

6 iP D 00 18 06.8 (Z)  
 e(L) 01 10 04.0 (Z')  
 iP D 00 51 33.6 (Z)  
 iS 49.2 (ZNE)  
 eP 01 08 30.5 (Z)  
 iS 09 04.5 (ZE)  
 i(S) 29.0 (N)  
 eP 02 40 51.5 (Z)  
 eP 04 22 35.1 (Z)  
 iS 40.1 (ZNE)

T:01.0 A:03.3

6 iP D 05 17 54.7 (Z)  
 eS 18 24.1 (ZE)  
 eP 06 09 24.1 (Z)  
 i 11 57.9 (E)  
 eP 06 37 32.1 (Z)  
 iS 38 04.6 (NE)  
 eP 07 39 54.5 (Z)  
 eP 10 23 05.7 (Z)  
 iP 10 29 37.2 (Z)  
 iS 49.0 (NEE')  
 iP D 14 58 41.1 (Z)  
 iS 51.9 (NE)  
 eiP 19 06 45.1 (Z)  
 i 09 13.8 (Z)  
 iP C 21 40 54.8 (Z)  
 iS 41 37.1 (NE)

7 eP 00 25 47.0 (Z)  
 iP C 00 33 02.0 (Z)  
 iS 17.0 (ZE)  
 eP 00 52 32.5 (Z)  
 e 56 46.0 (N')  
 e(L) 01 21 18.0 (Z')  
 eP 02 55 34.2 (Z)  
 eiP C 03 34 52.5 (Z)  
 iS 35 39.3 (E)  
 i(S) 43.8 (ZN)  
 eP 04 47 55.8 (Z)  
 iS 48 57.6 (N)  
 eiP 06 27 29.1 (Z)  
 i 39.9 (E)  
 eS 29 54.9 (N)  
 eP 06 49 02.1 (Z)  
 e(P) 09 02 29.1 (Z)  
 iP D 09 37 41.2 (ZZ')  
 iS 51.2 (N'E')  
 iP C 13 54 29.0 (Z)  
 eiP 16 26 11.7 (Z)  
 iS 39.1 (N)  
 e(L) 17 35 28.3 (Z'E')  
 eP 19 32 10.3 (Z)  
 i 21.9 (Z)  
 e 44.7 (Z)

iP C 20 10 59.2 (Z)  
 iS 11 16.8 (ZN)  
 iP C 22 41 08.9 (Z)  
 8 iP C 02 29 48.1 (Z)  
 iS 30 53.7 (N)  
 eiP C 02 47 45.0 (Z)  
 iS 49 08.4 (E)  
 eiP 02 51 03.5 (Z)  
 i 52 12.5 (E)  
 eP 04 29 27.6 (Z)  
 iP C 05 04 00.9 (Z)  
 iS 16.3 (ZE)

T:00.5 A:02.4

● eP	05 45 20.7 (Z)			10 iP	D 13 17 14.6 (Z)		
i	46 15.3 (Z)			iS	54.4 (ZN)		
eP	05 54 33.1 (Z)			iP	D 13 45 01.2 (Z)		
iS	47.1 (ZNE)			iS	14.2 (Z)		
eP	05 57 14.6 (Z)			iP	D 16 44 54.5 (Z)		
iS	26.2 (ZNE)			iS	45 10.0 (Z)		
iP	C 06 08 22.1 (Z)			iP	D 22 26 32.6 (Z)		
iS	26.8 (ZNE)			iS	28 09.6 (ZNE)		
eP	06 42 12.9 (Z)			i	29 12.9 (ZE)		
iS	47.1 (ZNE)			11 iP	D 02 04 29.5 (Z)		
iP	C 06 52 01.6 (Z)			iS	45.0 (NE)		
i	27.9 (E)			eP	03 02 33.4 (Z)		
iP	D 08 40 29.9 (Z)			eP	06 14 40.6 (Z)		
eS	57.8 (NE)			i(P)	06 59 33.6 (Z)		
iP	C 14 00 14.9 (Z)			iP	C 13 26 53.9 (Z)		
i(S)	01 11.2 (Z)			iS	27 35.7 (Z)		
e(L)	16 22 00.2 (Z'E')			● iP	D 16 13 25.0 (ZZ')		
eP	20 10 37.3 (Z)			iS	17 48.2 (Z'N'E')	T:12.0 A:17.0	
9 eP	01 17 07.0 (Z)			e(L)	20 18.2 (E')		
iS	18 00.5 (Z)			eL	23 50.2 (Z')	T:15.0 A:38.0	
eP	02 14 24.0 (Z)			iP	C 20 28 35.7 (Z)		
iP	03 45 07.1 (Z)			iS	48.5 (Z)		
iS	11.7 (ZNE)			iP	C 21 35 36.6 (Z)		
eP	04 49 04.0 (Z)			iS	36 14.7 (ZE)		
i	19.3 (Z)			12 iP	D 01 28 38.5 (Z)		
i(S)	36.1 (Z)			iS	53.0 (ZNE)		
eP	C 7 20 22.4 (Z)			● P	01 53 33.6 (Z)		
iS	21 56.8 (ZE)			eP	02 21 21.0 (Z)		
eP	09 05 19.9 (Z)			iS	51.0 (NE)		
eS	06 27.6 (Z)			eP	02 57 54.5 (Z)		
eP	09 34 25.2 (Z)			i	59 32.1 (Z)		
i(S)	35 08.2 (N)			iP	C 05 26 31.0 (Z)		
eiP	C 10 48 28.5 (Z)			iP	C 05 45 37.0 (ZZ')		
iS	49 10.7 (ZE)			iS	46 03.0 (N'E')		
iP	11 20 34.0 (Z)			eP	06 29 16.0 (Z)		
iS	45.2 (ZNE)			iS	30 43.1 (NE)		
iP	C 13 27 28.8 (Z)			iP	D 10 14 51.8 (Z)		
i	40.2 (Z)			eP	17 06 17.5 (Z)		
iP	15 37 56.5 (Z)			i	07 56.0 (Z)		
iS	38 03.3 (Z)			i	08 50.5 (ZE)		
iP	C 17 30 08.9 (Z)			eP	19 17 54.0 (Z)		
i(S)	31 03.3 (Z)			i	18 47.5 (E)		
i(S)	46.8 (E)			iP	C 19 21 57.3 (Z)		
eiP	18 13 19.7 (ZZ')			iS	22 13.0 (ZE)		
iS	17 26.3 (N'E')	T:14.0 A:20.0		iP	C 20 36 10.9 (Z)		
e(L)	20 11.3 (N')	T:16.0 A:44.0		iS	24.2 (ZN)		
iL	24 47.3 (Z')			13 iP	D 00 50 35.2 (Z)		
iP	D 19 27 26.2 (Z)			iS	46.2 (ZNE)		
iS	28 00.7 (Z)			eP	08 04 54.7 (Z)		
eP	20 58 22.5 (Z)			iS	05 13.3 (ZE)		
iS	59 54.3 (E)			iP	C 11 10 32.9 (Z)		
iP	C 22 47 04.4 (Z)			i(S)	11 03.0 (N)		
eS	48 42.1 (Z)			eiP	C 13 05 26.2 (Z)		
10 eiP	D 05 00 08.0 (Z)			i	07 03.6 (Z)		
iS	01 41.0 (ZNE)			e	14 08 29.6 (Z')		
eP	08 50 07.6 (Z)			eL	45 12.6 (Z'N'E')	T:21.0 A:12.0	



13 eP 17 11 44.5 (Z)  
 iS 12 55.2 (ZNE)  
 iP C 19 15 04.0 (Z)  
 iS 14.4 (ZNE)  
 iP D 19 26 36.2 (Z)  
 i 28 13.8 (E')  
 i 29 01.0 (N)

iP C 23 39 56.4 (Z)  
 iS 40 02.2 (ZNE)

14 iP D 02 26 48.4 (Z)  
 iS 54.9 (ZNE)

eP 04 15 42.4 (Z)  
 iS 59.4 (Z)

eP 04 35 37.4 (Z)  
 e 37 13.4 (Z)

eiP C 13 53 23.3 (Z)

T:01.0 A:01.5

iP C 13 54 02.2 (Z)  
 iS 19.4 (ZNE)

iP C 13 58 06.2 (Z)  
 i 49.5 (N)

eP 15 48 40.4 (Z)

iP C 16 37 58.2 (Z)  
 i(S) 38 29.0 (ZE)

iP D 18 01 14.4 (Z)  
 iS 19.9 (ZNE)

iP D 19 20 59.4 (Z)  
 iS 21 47.4 (ZNE)

15 iP D 02 57 35.3 (Z)  
 i 45.9 (E)  
 iS 59 14.1 (E)

eP 03 34 14.0 (Z)  
 iP 15.3 (Z)  
 iS 35 08.2 (E)

eP 06 02 34.6 (Z)  
 iP 37.3 (Z)  
 iS 03 38.5 (ZE)  
 iS 42.4 (N)

iP D 06 44 13.0 (Z)  
 iS 26.6 (ZE)

eP 10 51 33.6 (Z)  
 iS 52 34.9 (ZNE)

iP D 15 07 49.8 (Z)  
 i(S) 09 27.3 (E)  
 iS 10 10.3 (N)

iP 17 31 28.0 (Z)  
 iS 39.1 (N)

eP 21 35 08.3 (Z)  
 iS 24.3 (ZNE)

16 iP D 00 27 45.6 (Z)  
 iS 28 06.9 (N)

eiP 03 51 55.3 (Z)

iP C 04 27 15.6 (Z)  
 i 35.1 (ZNE)

eP 05 51 46.7 (Z)  
 eS 52 08.7 (ZE)

eiP 07 13 13.9 (ZZ')  
 iS 14 48.1 (ZZ'NN'EE')

16 iP C 07 27 08.6 (Z)  
 i 20.6 (Z)

T:01.1 A:03.9  
 T:01.2 A:03.9

eP 09 07 32.2 (Z)  
 iS 58.2 (NE)

eP 12 54 20.9 (Z)  
 iS 55 12.4 (N)

eiP 14 59 56.3 (Z)  
 e 15 00 09.8 (Z)

iP D 16 08 07.3 (Z)  
 iS 22.3 (NE)

iP C 16 35 38.3 (Z)  
 iS 53.4 (N)

iP C 17 18 54.5 (Z)  
 i(S) 19 11.7 (ZNE)

eP 17 23 40.3 (Z)  
 iS 55.7 (NE)

iP C 18 10 20.6 (Z)  
 iS 11 26.4 (ZNE)

eiP C 19 19 50.0 (Z)  
 i(S) 20 07.1 (ZNE)

17 iP C 01 10 47.2 (Z)  
 iS 13 09.4 (Z'NN'EE')

eP 01 46 02.0 (Z)

eiP 02 10 52.3 (Z)  
 iS 11 11.2 (NE)

eiP C 07 53 13.8 (Z)  
 iS 31.3 (ZNEE')

eP 08 39 05.6 (Z)  
 e 27.4 (Z)

eP 09 16 05.2 (Z)

iP C 10 16 26.7 (Z)  
 iS 50.4 (Z)

iP D 10 34 44.1 (Z)

T:00.9 A:02.3

eiP 12 19 03.2 (ZZ')  
 i 15.8 (Z)  
 i 22 21.2 (Z')  
 e 41 00.2 (N'E')  
 eL 13 06 40.2 (Z')

iP D 13 17 17.2 (Z)  
 iS 48.1 (ZE)

iP D 16 37 06.2 (Z)  
 iS 27.3 (E)

eiP D 19 55 04.4 (Z)

eP 20 00 58.3 (Z)  
 iS 01 21.2 (ZNE)

18 eP 01 11 49.0 (Z)  
 iS 12 21.4 (Z)

iP D 04 40 02.5 (Z)

eP 05 53 53.1 (ZZ')  
 i 54 02.1 (ZZ')  
 i 56 51.5 (Z'N')  
 e 57 38.1 (Z'N')

T:01.3 A:04.0

e 06 09 13.1 (N')  
 e 15 06.1 (Z'N'E')  
 e(L) 19 16.1 (N')  
 eL 33 05.1 (N')



18 eP 06 57 43.3 (Z)  
 eP 09 53 49.2 (Z)  
 iS 54 25.2 (ZNE)  
 eP 10 25 46.5 (Z)  
 iS 27 19.1 (E)  
 i(S) 22.6 (E)  
 iP C 13 31 38.2 (Z)  
 iS 45.1 (ZNE)  
 iP D 16 43 38.1 (Z)  
 iS 44 01.7 (E)  
 19 eiP C 01 18 11.6 (Z)  
 iP C 01 18 31.5 (Z)  
 iS 19 29.0 (NE)  
 eP 04 28 01.1 (Z)  
 iS 25.1 (ZNE)  
 eP 05 07 45.6 (Z)  
 iS 08 08.4 (ZNE)  
 eP 05 25 09.8 (Z)  
 eS 22.6 (Z)  
 iP D 06 21 20.3 (Z)  
 iS 25.2 (ZNE)  
 iP C 08 38 47.3 (Z)  
 iS 39 32.4 (N)  
 eP 08 56 56.8 (Z)  
 iS 57 47.3 (N)  
 eiP 08 59 55.6 (Z)  
 iS 09 00 45.6 (ZNE)  
 eP 09 11 42.1 (Z)  
 iS 12 32.1 (N)  
 e 12 57 28.2 (Z')  
 i 13 04 57.2 (N')  
 i 06 02.2 (N')  
 i 07 24.2 (Z'E')  
 i 13 04.2 (N'E')  
 i(L) 22 52.2 (N'E')  
 eL 27 18.2 (Z'E')  
 iP C 16 35 27.3 (Z)  
 iS 43.0 (ZNE)  
 iP D 16 56 02.9 (Z)  
 eiP 17 17 17.8 (Z)  
 iS 44.5 (ZNE)  
 iP C 23 06 09.4 (Z)  
 iS 24.4 (N)  
 iP C 23 09 08.9 (Z)  
 iS 25.4 (ZNE)  
 20 eP 00 01 34.0 (Z)  
 iP C 01 00 18.5 (ZZ')  
 iS 46.0 (N'E')  
 eiP 02 17 04.8 (ZZ')  
 i 20 35.0 (Z')  
 e(L) 45 17.0 (N')  
 e(L) 58 35.0 (E')  
 eP 03 45 35.5 (Z)  
 iS 46 31.2 (Z)  
 iP C 03 48 30.9 (Z)  
 iP D 03 59 24.5 (Z)

T:27.0 A:37.0  
 T:47.0 A:127.0  
 T:34.0 A:93.0

T:01.0 A:07.7

T:09.0 A:13.5

20 iP C 05 37 45.1 (Z)  
 iS 39 27.5 (ZNE)  
 i 40 31.3 (Z)  
 iP C 06 43 01.1 (Z)  
 iP 12 37 05.0 (Z)  
 iS 38 01.7 (ZNE)  
 e(P) 13 08 45.2 (Z)  
 e 13 02.2 (Z'N'E')  
 e 15 07.2 (Z'N'E')  
 iP C 14 57 05.6 (Z)  
 iS 40.2 (N)  
 iP D 17 20 04.5 (Z)  
 iS 21 37.1 (Z)  
 iP D 17 52 47.8 (Z)  
 iS 55.5 (ZE)  
 iP C 19 16 47.2 (Z)  
 iS 17 00.3 (ZNE)  
 iP D 19 37 24.4 (Z)  
 iS 38 24.3 (N)  
 iP D 21 38 35.4 (Z)  
 iS 46.6 (ZN)  
 iP C 23 06 12.3 (Z)  
 iS 07 43.7 (N)  
 21 iP C 03 02 41.5 (ZZ')  
 i 49.5 (Z)  
 i(S) 09 46.0 (N'E')  
 eL 16 14.0 (Z')  
 eP 03 39 23.9 (Z)  
 iS 40.6 (ZNE)  
 eP 04 09 02.1 (Z)  
 iS 10 03.3 (ZN)  
 eiP 04 57 37.1 (Z)  
 iS 59 13.9 (ZNE)  
 eP 08 34 59.6 (Z)  
 iP D 10 05 19.7 (Z)  
 iS 29.7 (ZNE)  
 iP D 12 47 12.2 (Z)  
 iS 48 34.2 (ZE)  
 eiP 13 27 47.4 (Z)  
 iS 28 56.4 (ZN)  
 eP 15 35 15.7 (Z)  
 iP D 16 13 01.8 (Z)  
 iS 15.2 (ZNE)  
 iP C 20 54 12.7 (Z)  
 iS 28.8 (ZNE)  
 22 iP C 00 03 49.3 (Z)  
 iP C 02 39 58.3 (Z)  
 iS 40 28.0 (NE)  
 eiP 05 08 05.6 (Z)  
 eP 05 53 48.4 (Z)  
 eP 07 04 59.1 (Z)  
 iS 05 19.0 (NE)  
 eP 07 48 24.1 (Z)  
 iS 50 01.8 (ZN)  
 eP 08 23 05.1 (Z)

T:01.1 A:08.0  
 T:18.0 A:26.0  
 T:29.0 A:102.0



22	eiP	C 08 29	34.4 (Z)		25	eiP	02 09	14.0 (Z)	
	iS		47.8 (ZNE)			i		22.5 (Z)	
	eP	09 56	54.9 (Z)			i	10	35.5 (Z)	
	iS		57 41.0 (N)			i	12	30.0 (Z)	T:01.0 A:21.0
	iP	D 11 38	02.7 (Z)			eP	05 29	08.1 (Z)	
	iS		23.7 (NE)			i(S)	30	55.6 (N)	
	iP	C 11 51	42.4 (Z)			eP	06 27	16.6 (Z)	
	eS		52 21.2 (N'E')			iS		31.9 (ZNE)	
	eiP	12 21	33.2 (Z)			iP	C 09 55	52.2 (Z)	
	iP	C 12 35	47.7 (Z)			iS		56 15.2 (E)	
	iP	C 18 27	49.5 (Z)		26	iP	C 01 07	19.6 (Z)	
	iS		28 09.5 (Z)			iS		24.1 (ZNE)	
	eP	20 35	40.3 (Z)			iP	D 02 20	41.7 (Z)	T:00.8 A:02.0
	iS		36 43.3 (N)			iP	C 03 40	01.7 (Z)	
23	eiP	00 25	36.2 (Z)			iS		42.0 (ZNN'EE')	
	iP	C 05 19	59.0 (Z)			eP	06 13	53.3 (Z)	
	iS		20 18.8 (NE)			iP	C 06 39	52.9 (Z)	
	eP	05 47	02.1 (Z)			iS		57.5 (ZNE)	
	iS		31.7 (N)			eiP	06 43	06.1 (Z)	
	iP	D 05 58	06.1 (Z)			eP	08 25	21.1 (Z)	
	iS		10.3 (ZNE)			iS		52.1 (N)	
	iP	D 06 16	26.9 (Z)			iP	D 16 17	47.2 (Z)	
	iS		31.2 (ZNE)			i	18	04.2 (Z')	
	iP	D 09 40	00.4 (Z)	T:01.0 A:03.7		e	26	41.2 (N'E')	
	eiP	D 19 58	20.8 (Z)			e(L)	30	52.2 (Z')	T:24.0 A:16.0
	iS		39.5 (NE)			iP	D 16 35	21.2 (Z)	
	e	20 34	44.3 (Z')			iS		42.2 (ZNE)	
	e	42	12.3 (N'E')			iP	C 19 26	58.3 (Z)	
	e(L)	47	43.3 (N'E')			iS		27 03.3 (ZNE)	
	eiP	C 22 48	28.4 (Z)			eiP	19 44	28.7 (Z)	
	iP	D 23 36	17.2 (Z)			iS		42.8 (N)	
	iS		39.8 (N'E')			iP	C 20 03	09.2 (Z)	
	iP	C 23 53	07.1 (Z)			i(S)		37.3 (E)	
	iS		54 31.9 (N)			eP	20 13	37.8 (Z)	
24	iP	C 00 27	54.6 (Z)			i	14	29.8 (Z)	
	iS		28 43.5 (NE)			iP	D 21 49	15.7 (Z)	
	iP	C 00 52	43.8 (Z)			iS		49.8 (ZNE)	
	iP	00 59	15.3 (ZZ')		27	eiP	01 57	41.1 (Z)	
	iS		27.0 (N'E')			iS		59 48.2 (E)	
	eiP	03 25	04.3 (Z)			iP	D 02 31	37.7 (Z)	
	iP	C 08 17	01.9 (Z)			iS		52.9 (ZNE)	
	iS		14.2 (ZNE)			iP	D 02 39	33.2 (Z)	
	eP	09 38	26.0 (Z)			iS	40	00.2 (NE)	
	i		47.7 (Z)			eP	05 31	35.0 (Z)	
	e(S)	45	41.2 (N'E')			iS		49.2 (ZNE)	
	e(S)	48	40.2 (N')			eiP	08 20	00.1 (Z)	
	eL	51	26.2 (N')	T:68.0 A:98.0		e(L)	30	34.1 (N')	
	eP	10 40	24.0 (Z)			eL	34	47.1 (N'E')	
	iP	C 14 01	24.7 (Z)			iP	C 08 40	47.1 (Z)	
	iS		43.9 (NE)			iS		42 19.7 (ZNN'EE')	
	iP	C 14 11	05.9 (Z)			iP	C 09 36	57.1 (Z)	
	iS		41.2 (ZNE)			iS		37 25.3 (ZNE)	
	iP	C 20 34	45.4 (Z)			iP	C 10 49	28.9 (Z)	
	iS		35 01.7 (ZNE)			iS		32.7 (ZNE)	
						iP	C 16 46	42.9 (Z)	
						iS		58.1 (ZE)	



27	iP	D 18 01	52.3 (Z)		30	eP	06 52	57.9 (Z)	
	iS		56.4 (ZNE)			eS	53	54.6 (Z)	
28	iP	C 03 14	41.0 (Z)			eP	07 12	06.7 (Z)	
	iS		15 08.4 (ZNE)			eS		25.0 (ZE)	
	iP	D 03 43	35.4 (Z)			iP	D 12 48	21.9 (Z)	
	iS		40.1 (ZNE)			iS		38.8 (ZNE)	
	eP	05 05	29.8 (Z)			iP	D 13 31	12.2 (Z)	
	iS		49.9 (NE)			iS		39.2 (N)	
	eP	06 36	05.1 (Z)			iP	C 16 33	45.9 (Z)	
	eiP	07 51	56.3 (Z)			iS		34 01.7 (ZNE)	
	eP	07 57	08.2 (Z)			eiP	17 37	58.2 (Z)	
	iP	C 12 37	59.2 (Z)			iP	D 18 09	36.1 (Z)	
	iS		38 34.0 (ZNE)			iS		10 05.1 (ZNE)	
	iP	C 13 17	27.6 (Z)			iP	D 21 21	17.3 (Z)	
	iS		34.2 (ZNE)			iS		45.8 (Z)	
	eP	14 11	51.2 (ZZ')			iP	C 23 00	21.9 (Z)	
	i(S)	17	55.7 (N'E')			iS		50.4 (ZNE)	
	i	21	07.7 (Z')			eP	23 37	26.7 (Z)	
	i	27	02.2 (N')			iS		53.4 (ZNE)	
	e(L)	37	40.2 (N'E')	T:32.0 A:23.0	31	eP	03 55	21.6 (Z)	
	eP	16 51	01.3 (Z)			iP	D 04 28	20.9 (Z)	
	i		52 42.0 (N)			eS		49.6 (E)	
	eP	17 53	58.0 (Z)			iP	C 04 44	50.8 (Z)	
	iS		54 42.7 (N)			iS		45 13.7 (ZNE)	
	eP	18 40	28.3 (Z)			eP	06 47	03.0 (Z)	
	eiP	22 25	49.0 (Z)			iS		48 38.3 (ZNE)	
	iS		26 22.4 (ZNE)			iP	D 07 35	08.4 (Z)	
	iP	22 54	35.4 (Z)			iS		39.9 (E)	
	iS		46.4 (ZNE)			iP	C 07 48	29.0 (Z)	
29	eP	01 27	07.3 (Z)			i		49 10.1 (Z)	
	iP	C 04 42	45.6 (Z)			iP	12 43	57.7 (Z)	
	iS		52.0 (ZNE)			iS		44 01.8 (NE)	
	eiP	D 07 21	19.6 (Z)			eiP	13 42	39.0 (ZZ')	
	eP	08 15	50.6 (Z)			e(S)		47 00.2 (N'E')	
	e	18	01.1 (Z)			i		50 47.2 (Z'E')	T:23.0 A:21.0
	e		11.9 (Z)			iP	C 16 14	37.4 (Z)	
	e	09 00	30.1 (Z')			iS		52.7 (ZNE)	
	e(L)	09 09	43.1 (N'E')			iP	D 18 34	59.0 (Z)	
	iP	D 10 34	20.2 (Z)			iS		35 13.5 (ZE)	
	iS		36.4 (ZNE)			iP	19 23	12.5 (Z)	
	eP	11 30	27.9 (Z)			iS		28.6 (ZNE)	
	iS		32.2 (ZNE)						
	iP	C 16 52	36.8 (Z)						
	iS		49.8 (ZE)						
	eP	18 31	02.3 (Z)						
	iP	D 20 05	02.8 (Z)						
	iS		17.2 (ZNE)						
30	eP	01 39	22.0 (Z)						
	iP	D 02 07	18.9 (Z)						
	iS		35.0 (ZNE)						
	iP	D 02 36	32.0 (Z)						
	iS		37 05.8 (E)						
	iP	C 02 40	36.0 (Z)						
	iS		41 08.7 (ZNE)						

C : compresión  
D : dilatación





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

FEBRERO, 1967

1	iP	D 00 14	21.0 (Z)		3	eP	01 19	31.0 (Z)
	iS		43.6 (ZN)			iS	20	46.0 (ZE)
	iP	D 01 30	52.0 (Z)			eP	03 28	45.6 (Z)
	iS		31 16.8 (ZE)			iS	29	41.1 (E)
	eP	09 39	15.7 (Z)			iP	D 04 38	52.1 (Z)
	iS		31.5 (ZNE)			iS		58.9 (ZNE)
	eiP	13 13	38.7 (Z)			eiP	07 24	43.8 (Z)
	iS		14 05.8 (E)			iS	25	00.3 (E)
	iP	C 14 44	29.1 (ZZ')			eP	08 36	48.9 (Z)
	iS		45.6 (N'E')			e	37	16.1 (Z)
	iP	D 14 57	23.4 (Z)			iP	C 09 45	31.5 (Z)
	i(S)		39.2 (NE)			eP	13 07	07.0 (ZZ')
	iP	D 16 00	37.6 (Z)			i	08	43.7 (Z)
	iS		53.5 (E)			e	09	13.2 (N')
	iP	D 17 42	15.7 (Z)			iP	C 13 11	27.1 (Z)
	iS		43 11.2 (NE)			iP	D 14 43	47.2 (Z)
	eiP	D 21 50	49.8 (Z)			iS		59.7 (ZE)
	iS		51 22.8 (ZNE)			iP	15 38	26.8 (Z)
2	iP	C 05 38	10.1 (Z)			iS	39	04.2 (ZNE)
	iS		24.9 (NE)			iP	C 18 12	41.0 (Z)
	iP	C 06 35	03.7 (ZZ')	T:01.0 A:08.5		iS	13	15.7 (ZNE)
	i		49.6 (Z)			iP	C 23 27	18.2 (Z)
	e(S)	42	34.1 (N')			iS	28	28.6 (N'E')
	e	46	44.1 (Z')			4	iP	C 04 22
	e(L)	48	23.1 (E')			i	23	15.9 (E)
	eL	53	48.1 (Z')			iS		45.4 (NE)
	eiP	C 07 57	28.1 (Z)			iP	C 05 43	49.0 (Z)
	e		58 11.1 (Z)			iS	44	40.9 (E')
	i		59 53.1 (Z)			eiP	C 06 03	06.9 (Z)
	i	08 01	04.6 (Z)			iS		54.5 (E)
	eP	08 17	18.1 (Z)			iP	D 07 56	27.9 (Z)
	eS		38.1 (ZNE)			iS	58	04.6 (E)
	iP	C 08 51	36.2 (Z)			iP	C 16 48	28.4 (Z)
	iS		50.5 (NE)			iS		44.1 (E)
	iP	D 10 35	58.8 (Z)			iP	C 18 33	27.0 (Z)
	iS		36 12.0 (ZE)			i		
	iP	C 11 07	00.4 (Z)			iP	C 19 42	39.8 (Z)
	eP	15 23	05.5 (Z)			iS	43	02.2 (ZNE)
	iS		32.3 (ZNE)			5	eiP	C 03 24
	iP	16 43	31.3 (Z)			iP	D 04 10	07.6 (Z)
	iS		39.7 (NE)			iS		58.3 (NE)
	eiP	20 00	58.8 (Z)			iP	D 05 12	54.3 (Z)
	i(S)		02 09.0 (Z)			iS	13	10.5 (ZNE)
	iP	D 20 23	43.4 (Z)			eiP	06 22	00.1 (Z)
	iS		55.4 (ZNE)			iS		31.9 (N)
	iP	C 20 47	28.4 (Z)			iP	D 07 05	29.0 (Z)
	iS		45.3 (NE)			iS		45.3 (ZNE)
	eP	21 04	05.4 (Z)					

5 iP D 07 25 19.4 (Z)  
 eP 09 21 20.6 (Z)  
 iS 22 58.9 (E)  
 eP 12 54 14.0 (Z)  
 eP 16 46 51.0 (Z)  
 iS 47 43.3 (N)  
 eiP 19 05 50.3 (Z)  
 e 14 04.3 (E')  
 e(L) 24 22.3 (Z')  
 eL 32 10.3 (Z')  
 iP C 21 57 25.8 (Z)  
 iS 58 07.1 (NE)  
 6 eP 02 00 50.4 (Z)  
 iS 02 20.8 (ZN)  
 eiP 04 59 11.8 (Z)  
 iS 36.4 (ZNE)  
 iP D 05 58 53.6 (Z)  
 iS 06 00 05.8 (NE)  
 iP 06 13 42.6 (Z)  
 iS 15 03.3 (N)  
 eP 06 59 32.1 (Z)  
 iS 43.5 (ZNE)  
 iP C 08 25 56.8 (Z)  
 eS 26 14.3 (ZN)  
 eiP D 10 20 42.7 (Z)  
 iS 22 05.0 (ZNE)  
 iP 12 57 32.6 (Z)  
 iS 22.7 (NE)  
 iP 14 07 28.9 (ZZ')  
 iS 47.6 (Z'N'E')  
 iP D 17 10 58.6 (Z)  
 iS 13 49.6 (N)  
 eP 17 34 29.9 (Z)  
 iS 47.3 (ZNE)  
 iP C 20 25 19.8 (Z)  
 iS 35.1 (ZE)  
 7 eiP 05 04 46.6 (Z)  
 iS 05 20.1 (NE)  
 iP C 05 43 44.0 (Z)  
 iS 44 18.0 (NE)  
 eP 05 49 17.5 (Z)  
 iS 42.5 (ZNE)  
 eiP 07 48 46.9 (Z)  
 iS 49 05.4 (N)  
 iP D 08 48 22.3 (ZZ')  
 iP C 16 37 03.9 (Z)  
 iS 16.3 (ZNE)  
 eiP C 16 38 44.4 (Z)  
 iS 39 42.8 (ZNE)  
 8 eP 03 04 14.7 (Z)  
 iS 05 41.7 (N)  
 iP C 03 13 34.9 (Z)  
 iS 14 08.4 (ZE)  
 eP 10 36 53.7 (Z)  
 iS 37 09.1 (ZNE)

T:01.2 A:03.5

T:01.0 A:09.0

8 iP 12 18 37.9 (Z)  
 eS 19 07.2 (N'E')  
 iP D 13 43 05.7 (ZZ')  
 iS 43.4 (Z'N'E')  
 iP C 13 52 46.0 (Z)  
 iS 53 01.0 (ZE)  
 iP D 15 45 49.7 (ZZ')  
 e(S) 53 59.3 (N'E')  
 e(L) 16 00 09.3 (N'E')  
 eL 03 05.3 (Z')  
 eP 15 57 34.8 (Z)  
 iP C 18 27 54.1 (Z)  
 iS 29 25.5 (ZN)  
 iP D 20 43 49.8 (Z)  
 iS 44 10.7 (N)  
 eiP D 22 36 09.9 (Z)  
 i(S) 37 39.6 (N)  
 i(S) 38 44.9 (Z)  
 9 eP 01 50 09.0 (Z)  
 eP 02 00 26.2 (Z)  
 iS 01 30.0 (ZNE)  
 iP C 02 53 41.9 (Z)  
 eS 54 23.9 (Z)  
 eP 04 52 43.6 (Z)  
 iP D 05 54 54.1 (Z)  
 iS 55 11.1 (ZNE)  
 eP 06 16 52.7 (Z)  
 iS 17 27.2 (NE)  
 iP C 07 57 20.6 (Z)  
 iS 42.9 (NE)  
 iP D 08 27 20.9 (Z)  
 iS 33.6 (NE)  
 iP C 08 52 19.2 (Z)  
 iS 38.8 (NE)  
 iP D 10 48 40.0 (Z)  
 iS 56.9 (NE)  
 iP C 12 33 00.7 (Z)  
 iS 34 10.7 (ZN)  
 iP C 15 29 11.3 (Z'N'E')  
 iP D 21 19 51.8 (Z) T:01.0 A:04.5  
 eP 23 54 31.6 (Z)  
 iS 55.2 (NE)  
 10 iP C 00 15 08.2 (Z)  
 iS 37.1 (NE)  
 iP D 03 06 59.6 (Z)  
 i(S) 07 41.1 (E)  
 eP 03 22 49.1 (Z)  
 iP C 04 00 00.1 (Z)  
 eP 04 45 13.1 (Z)  
 iS 27.2 (ZNE)  
 iP D 06 06 09.5 (Z) T:01.0 A:01.1  
 iP C 06 10 30.2 (Z) T:00.6 A:02.4  
 eP 06 43 31.8 (Z)  
 iP C 06 58 23.2 (Z)  
 iS 57.6 (NE)



10 iP D 11 49 39.3 (Z)  
 iP 19 59 33.2 (Z)  
 iS 44.2 (ZNE)  
 eP 21 09 34.5 (Z)  
 iS 40.3 (ZNE)  
 eP 21 20 57.6 (Z)  
 eP 23 15 40.4 (Z)  
 eS 16 12.3 (E)

11 eiP D 01 03 50.8 (Z)  
 iS 05 22.8 (NE)  
 eP 06 40 28.4 (Z)  
 iS 41 30.9 (ZNE)  
 iP D 08 35 01.6 (Z)  
 iS 18.6 (ZNE)  
 iP D 11 18 39.6 (Z)  
 eS 19 02.2 (N)  
 eP 13 24 54.6 (Z)  
 eS C 14 25 25.1 (N)  
 eiP C 17 36 50.5 (Z)  
 iS D 17 37 16.2 (ZNE)  
 iP D 19 15 30.6 (Z)  
 iS 19 20 52.9 (Z'N'E')  
 eiP D 19 43 01.3 (Z)  
 iS 57.4 (E)  
 iP C 19 49 22.3 (Z)  
 i(S) 50 20.8 (EE')

12 iP D 06 01 06.2 (Z)  
 iS 25.5 (ZNE)  
 iP 10 30 35.3 (Z)  
 i(S) 47.2 (ZE)  
 iP D 11 57 27.8 (Z)  
 eS 58 00.2 (ZNE)  
 iP C 14 09 33.6 (ZZ')  
 i(S) 10 30.9 (E')  
 i 11 28.3 (Z')  
 eP 16 47 58.2 (Z)  
 iS 48 30.2 (E)  
 eP 19 14 31.4 (Z)  
 iP C 19 33 47.4 (Z)  
 eS 34 47.3 (ZNE)

13 eP 04 55 21.1 (Z)  
 iS 39.0 (ZNE)  
 iP D 05 20 15.3 (Z)  
 i 21 08.6 (Z)  
 eiP C 06 16 33.0 (Z)  
 iS 17 00.5 (E)  
 eP 07 40 34.8 (Z)  
 iS 42 09.2 (E)  
 eiP 08 37 31.6 (Z)  
 i 38 14.8 (Z)  
 eiP C 10 28 33.2 (Z)  
 i 55.8 (Z)  
 i 30 32.7 (Z)  
 e 31 32.2 (E')

T:01.4 A:04.0

13 eP 11 21 24.5 (Z)  
 eP 11 40 45.2 (Z)  
 e(P) 13 52 22.4 (Z)  
 iP D 21 00 23.6 (Z)  
 i 49.6 (E)  
 i(S) 02 25.1 (E)  
 i(S) 03 25.0 (NE)  
 eP 22 31 55.9 (Z)  
 eiP 23 26 11.4 (ZZ')  
 i 32 29.4 (Z')  
 e 35 56.9 (N'E')  
 i 41 34.4 (N')  
 iL 50 13.4 (Z')

T:09.0 A:08.5

T:40.0 A:46.0

14 iP C 01 56 12.4 (Z)  
 i 57 19.8 (Z)  
 i 58 45.8 (Z)  
 e 02 01 08.6 (ZZ')  
 eiP 03 40 23.8 (Z)  
 eiP C 05 26 01.0 (Z)  
 eP 08 44 09.6 (Z)  
 i 26.4 (Z)  
 iS 36.3 (N)  
 eP 11 50 07.7 (Z)  
 iS 30.2 (ZNE)  
 i(P) 16 38 36.5 (Z)  
 iP C 38.6 (Z)  
 iS 51.7 (N)  
 iP D 18 06 26.8 (Z)  
 iS 33.6 (ZNE)

15 iP 01 44 56.9 (Z)  
 iS 45 21.8 (E)  
 iP C 02 44 08.6 (Z)  
 iS 16.5 (ZN)  
 iP D 04 21 11.7 (Z)  
 iS 27.6 (ZNE)  
 iP C 04 43 22.5 (Z)  
 iS 38.3 (NE)  
 iP C 04 57 28.5 (Z)  
 iS 58 58.1 (NE)  
 iP C 05 58 24.1 (Z)  
 iP C 06 17 33.2 (Z)  
 eL 50 20.1 (E')  
 eP 07 03 24.1 (Z)  
 iS 40.9 (ZNE)  
 iP D 08 49 37.2 (Z)  
 iS 51.3 (N)  
 iP D 13 24 10.4 (Z)  
 iS 49.1 (NE)  
 iP D 16 13 05.1 (Z)  
 i(S) 14 14.3 (N'E')  
 e 38 46.3 (N'E')  
 iL 17 14 26.3 (Z')  
 eL 32 12.3 (N')  
 eL 46 06.3 (N'E')  
 iL 48 14.3 (Z')  
 iP C 16 41 44.2 (Z)  
 iS 49.4 (E)

T:00.6 A:01.0

T:01.3 A:01.0

T:34.0 A:04.5

15 eiP C 16 49 23.3 (Z)  
 iP D 21 10 32.4 (Z)  
 eS 52.3 (Z)  
 iP C 23 13 19.2 (Z)  
 iS 38.4 (ZNE)  
 16 eP 08 40 36.6 (Z)  
 iS 41 47.3 (ZN)  
 iP C 12 24 11.2 (Z)  
 iS 25 33.1 (N)  
 iP D 13 39 00.1 (Z)  
 iS 16.7 (ZN)  
 eiP D 19 24 26.9 (Z)  
 iS 25 21.2 (Z)  
 17 iP D 00 58 17.2 (Z)  
 eiP 01 22 40.5 (Z)  
 eiP 08 00 29.7 (Z)  
 iS 02 07.4 (ZE)  
 iP D 10 10 54.3 (Z)  
 iS 11 10.9 (ZNE)  
 iP D 10 24 18.2 (ZZ')  
 e(S) 35 42.2 (N'E')  
 e(L) 54 32.2 (Z')  
 iL 57 08.2 (Z')  
 iP C 10 41 11.9 (Z)  
 iP 14 53 47.5 (Z)  
 iS 59.0 (ZNE)  
 eP 16 27 31.5 (Z)  
 iP C 16 28 24.1 (Z)  
 iS 39.1 (N)  
 iP C 16 33 22.0 (Z)  
 iS 35.8 (ZN)  
 iP D 20 48 23.8 (Z)  
 iS 52.3 (ZNE)  
 iP C 21 15 15.1 (Z)  
 iS 16 12.8 (ZNE)  
 iP C 23 27 02.6 (Z)  
 iS 24.4 (Z'E')  
 18 iP D 00 50 09.5 (Z)  
 iS 26.6 (E)  
 eiP D 01 18 40.5 (Z)  
 i 58.0 (Z)  
 iP D 02 23 47.9 (Z)  
 iS 24 05.2 (ZE)  
 eiP D 02 58 30.0 (Z)  
 iP C 03 01 54.5 (Z)  
 iP D 03 25 52.3 (Z)  
 iS 26 04.0 (ZNE)  
 eiP 03 42 45.0 (Z)  
 iS 43 02.1 (E)  
 eP 05 00 02.9 (Z)  
 eP 06 01 51.3 (Z)  
 iS 04 00.1 (ZNE)  
 eiP 07 03 04.1 (Z)  
 i 09.6 (Z)

T:01.5 A:06.0

T:01.0 A:50.0

T:01.0 A:03.0

T:01.3 A:05.8

18 e(P) 08 48 52.6 (Z)  
 eiP 08 48 52.6 (Z)  
 eiP 11 37 13.5 (Z)  
 i 41 06.7 (Z)  
 iP D 16 38 07.8 (Z)  
 iS 22.7 (ZNE)  
 e(P) 19 01 27.0 (Z)  
 i 02 36.6 (Z)  
 iP D 19 18 32.0 (Z)  
 iS 50.4 (ZNE)  
 eiP D 20 23 44.1 (Z)  
 iS 25 06.0 (N)  
 iP D 22 32 12.8 (Z)  
 iS 16.5 (ZNE)  
 19 eP 04 36 55.6 (Z)  
 eP 05 17 16.6 (Z)  
 e(P) 08 51 47.8 (Z)  
 eiP C 09 34 38.6 (Z)  
 iP D 16 36 59.8 (Z)  
 eiP 19 51 53.9 (Z)  
 iS 53 30.8 (ZN)  
 eiP C 20 28 03.1 (Z)  
 iP C 21 11 31.7 (Z)  
 iS 13 29.5 (ZN)  
 iP C 22 34 24.9 (ZZ')  
 i 44.8 (Z)  
 i 38 53.5 (Z)  
 e 44 09.3 (N'E')  
 e 58 32.3 (E')  
 eP 23 09 55.3 (Z)  
 iS 11 11.9 (ZE)  
 eiP 23 48 34.5 (Z)  
 i 49.8 (Z)  
 21 iP C 02 14 30.4 (Z)  
 eP 02 17 28.9 (Z)  
 e 39.5 (Z)  
 eiP C 04 28 25.1 (Z)  
 iS 29 15.6 (ZNE)  
 eP 04 36 14.1 (Z)  
 iS 37 03.0 (ZN)  
 eP 05 13 07.6 (Z)  
 i 31.4 (Z)  
 iP C 05 15 57.6 (Z)  
 iS 16 44.6 (N)  
 eP 06 12 46.4 (Z)  
 eP 09 08 04.4 (Z)  
 eP 09 29 17.8 (Z)  
 i 41.6 (Z)  
 eiP D 11 04 48.9 (Z)  
 iP C 15 38 19.1 (ZZ')  
 eP 16 50 05.8 (Z)  
 iS 19.8 (ZNE)  
 iP C 22 43 48.2 (Z)

T:00.7 A:11.5

T:01.0 A:06.0

T:01.1 A:02.5

T:01.0 A:17.0



20 eP 23 42 20.8 (Z)  
 i 31.8 (Z)

21 iP C 01 17 18.8 (Z)  
 iS 31.2 (ZNE)

iP C 03 01 16.2 (Z)  
 iS 28.4 (Z)

eP 04 23 23.1 (Z)

eP 04 29 30.3 (Z)  
 e(L) 38 21.1 (Z'N')

eP 04 55 12.1 (Z)

eP 07 06 15.6 (Z)  
 e 40.6 (Z)

eiP D 07 30 13.4 (Z)  
 iS 31 49.0 (Z)

eiP 09 18 34.1 (Z)

eP 09 37 10.1 (Z)

iP C 12 42 43.2 (Z)  
 iS 43 19.3 (E)

iP D 12 57 23.2 (Z)

iP C 16 38 51.3 (Z)  
 iS 39 06.5 (ZNE)

eP 17 30 10.3 (Z)

eiP D 19 02 20.3 (Z)

22 iP D 02 46 15.0 (Z)  
 iS 29.8 (ZNE)

eiP C 02 57 32.8 (Z)  
 iS 59 05.0 (Z)

iP D 03 15 10.1 (Z)

eiP D 03 57 27.4 (ZZ')  
 e(L) 04 04 36.1 (N'E')

eP 05 40 21.3 (Z)  
 iS 25.3 (ZN)

iP C 09 41 49.1 (Z)  
 iS 42 14.4 (ZN'E')

i(P) 12 22 17.4 (Z)  
 iS 59.1 (ZNE)

iP C 13 22 27.7 (Z)  
 iS 38.2 (ZNE)

iP C 15 36 57.2 (Z)

eP 18 56 21.8 (Z)

iP C 22 05 44.8 (Z)

i(P) 23 37 14.9 (Z)

23 eiP D 00 40 02.9 (Z)  
 eS 41 18.8 (NE)

iP C 00 46 24.2 (Z)  
 iS 54.5 (ZNE)

eP 04 55 14.0 (Z)

eP 05 15 35.6 (Z)  
 i 16 15.7 (Z)

eP 06 18 47.9 (Z)  
 e 19 12.1 (Z)

iP 07 32 16.9 (Z)  
 iS 22.9 (ZNE)

T:01.9 A:04.7

23 eP 07 36 42.6 (Z)

eiP D 07 52 55.9 (Z)  
 iS 53 26.8 (ZNE)

eP 08 19 49.1 (Z)

eP 09 31 04.1 (Z)

iP C 14 24 42.1 (Z)  
 iS 25 29.7 (E)

eiP 14 57 47.5 (Z)  
 e 15 05 07.2 (Z'N')

eiP 18 50 37.8 (Z)  
 iS 51 35.8 (Z)

iP D 20 27 02.7 (Z)  
 iS 16.7 (NE)

24 iP C 06 44 07.5 (Z)  
 iS 38.8 (NE)

eiP D 07 02 25.1 (Z)

iP D 10 12 22.0 (Z)  
 iS 13 18.8 (NE)

eP 11 59 26.7 (Z)

iP D 12 54 52.2 (Z)  
 iS 55 00.2 (ZNE)

iP C 14 32 14.0 (Z)  
 iS 33 50.4 (ZNE)

eP 16 37 13.1 (Z)  
 i 23.6 (Z)  
 iS 37.5 (NE)

iP D 17 43 15.3 (Z)  
 iS 48.6 (ZNE)

eiP D 18 16 56.0 (Z)  
 iS 17 05.5 (ZNE)

25 eiP 06 33 43.1 (Z)

eP 06 59 55.1 (Z)

iP C 07 24 23.4 (Z)  
 eS 53.6 (ZNE)

eP 07 35 49.1 (Z)

iP C 09 10 30.9 (Z)  
 iS 11 14.9 (ZNE)

eiP 11 40 51.4 (Z)  
 i 41 13.2 (Z)  
 i 37.0 (Z)  
 e 53 17.2 (N'E')  
 e(L) 56 54.2 (Z')

i(P) 11 58 36.4 (Z)  
 i 59 24.7 (Z)

iP C 16 31 23.5 (Z)  
 iS 39.4 (N)

eP 20 48 37.6 (Z)  
 iS 49 18.3 (E)

iP C 21 40 11.1 (Z)  
 iS 41 00.3 (ZNE)

26 eP 04 17 16.6 (Z)

eiP 04 51 53.8 (Z)  
 iS 53 00.7 (ZNE)

eP 06 29 42.6 (Z)

T:01.8 A:08.5

26 eP 06 42 22.4 (Z)  
 iS 43 00.1 (ZNE)  
 e(P) 07 17 45.1 (Z)  
 eiP 10 10 53.4 (Z)  
 iS 11 10.7 (ZNE)  
 iP D 19 02 29.3 (Z) T:00.7 A:02.1  
 i(P) C 20 42 29.0 (Z)  
 27 eiP 01 28 57.5 (Z)  
 e 29 27.2 (Z)  
 iP D 02 11 08.6 (ZZ') T:00.9 A:12.5  
 i 13 05.3 (Z)  
 e(S) 16 49.0 (E')  
 e 20 08.0 (Z')  
 eiP 02 34 31.8 (ZZ')  
 i 35 19.2 (Z)  
 e(S) 38 35.5 (N'E')  
 iP C 03 09 07.8 (Z)  
 iS 12.7 (ZNE)  
 eP 03 34 27.6 (Z)  
 iS 34.1 (ZNE)  
 iP C 04 22 43.5 (Z)  
 iS 23 12.6 (ZNE)  
 eP 06 20 46.7 (Z)  
 iS 21 12.5 (NE)  
 eiP 06 44 34.1 (Z)  
 iS 46 06.3 (NE)  
 iP D 10 10 16.7 (Z)  
 iS 30.7 (ZNE)  
 iP 12 51 45.7 (Z)  
 iS 52 00.2 (ZNE)  
 28 eiP D 08 20 03.7 (Z)  
 iP 09 57 01.0 (ZZ')  
 e(L) 10 46 49.7 (Z')  
 eL 57 41.7 (Z')  
 iP C 16 47 57.8 (Z)  
 iS 48 18.5 (ZNE)  
 eP 17 56 11.4 (Z)  
 i(S) 58 13.1 (N)  
 iP C 20 58 45.3 (Z)  
 iS 57.6 (ZNE)



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 -----  
 -----  
 C: compresión  
 D: dilatación



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

MARZO, 1967

1	iP	C 01 02	36.0 (Z)		3	iP	D 18 16	15.4 (Z)	
	iS		52.5 (ZNE)			iS	17	36.9 (N)	
	eP	06 22	17.0 (Z)		4	eiP	C 05 29	17.2 (Z)	
	eP	06 59	51.0 (Z)			i	30	05.3 (Z)	
	eP	07 42	41.8 (Z)			e	34	14.8 (Z)	
	eP	09 45	54.6 (Z)			eP	06 01	13.0 (Z)	
	iS	46	13.4 (ZNE)			iS		37.8 (ZNE)	
	iP	D 10 08	17.7 (Z)	T:01.0 A:04.8		eP	06 29	34.8 (Z)	
	iP	D 16 35	05.4 (Z)			e	39	51.8 (E')	
	iS		21.0 (ZE)			iP	C 06 46	11.2 (Z)	T:01.5 A:02.3
	eiP	C 18 59	42.4 (Z)			i		41.8 (Z)	
	iP	D 20 34	32.6 (Z)			eP	08 34	39.7 (Z)	
	iS	35	23.4 (ZN)			iS	35	45.2 (ZNE)	
	eP	21 24	10.8 (Z)			eP	08 45	28.1 (Z)	
	iS		38.3 (N)			eP	09 15	55.6 (Z)	
2	iP	C 02 51	33.1 (ZZ')	T:01.0 A:51.0		i(S)	17	31.4 (ZNE)	
	i		52 14.3 (Z)			iP	C 11 54	52.6 (Z)	
	i(S)		55 06.9 (Z'N')			iS	55	15.9 (ZN'EE')	
	iP	06 42	17.4 (Z)			eiP	15 40	20.8 (Z)	
	iS		22.0 (ZNE)			iS		48.5 (ZNE)	
	eP	08 37	18.9 (Z)			eP	18 12	07.4 (Z')	
	iP	C 16 33	49.5 (Z)			i	23	01.4 (N'E')	
	iS	34	05.1 (E)			e	25	37.4 (Z')	
3	eP	02 31	34.9 (Z)			eL	39	32.4 (N'E')	
	iS	32	46.1 (E)			eL	48	22.4 (Z')	
	eiP	D 03 07	52.9 (Z)			iP	C 19 24	50.4 (Z)	
	iP	C 03 18	26.7 (Z)			iS	25	42.8 (E)	
	iS		42.4 (N)			iP	C 20 47	28.3 (Z)	
	eP	03 39	42.5 (Z)			iS		32.4 (ZNE)	
	iP	C 05 16	46.2 (Z)		5	iP	00 48	21.0 (Z)	
	eP	05 47	55.0 (Z)			iS		25.5 (ZNE)	
	iP	C 06 32	42.8 (Z)			eP	01 31	48.5 (Z)	
	iS		57.0 (N)			iS	32	54.9 (ZNE)	
	iP	D 08 48	00.8 (Z)			eiP	C 02 19	47.0 (Z)	
	iS		05.7 (ZNE)			iS	20	22.9 (ZNE)	
	eP	08 52	22.2 (Z)			iP	D 02 56	28.5 (Z)	
	iP	C 10 51	53.0 (Z)			iS		44.3 (E)	
	iS		58.4 (ZNE)			eiP	07 17	04.1 (Z)	
	iP	C 13 47	08.9 (Z)			iP	D 17 39	48.8 (Z)	
	iS		32.1 (NE)			i(S)	40	22.1 (E)	
	iP	C 13 55	57.3 (Z)			iP	C 20 35	23.8 (Z)	
	iS	56	11.0 (N)			i		48.5 (E)	
	iP	C 14 07	45.0 (Z)		6	eP	03 02	26.1 (Z)	
	iS	08	01.7 (NE)			e	04 59	09.8 (Z)	T:00.9 A:09.0
						i		15.4 (Z)	
						e	05 01	08.0 (Z)	

6	eiP	05 30	16.5 (Z)		9	iP	D 10 23	13.8 (Z)	
	e	32	13.3 (Z)			iS		34.3 (ZNE)	
	eiP	D 08 11	51.7 (Z)			eP	10 37	24.7 (Z)	
	iP	D 22 38	44.0 (Z)			eS	38	25.5 (ZNE)	
	iS	39	07.7 (ZE)			iP	D 10 43	24.3 (Z)	
	eiP	D 23 55	04.0 (Z)			iS		46.7 (ZNE)	
7	eiP	C 03 50	36.9 (Z)			iS		48.7 (NE)	
	eP	04 30	49.4 (Z)			iP	D 11 45	14.8 (Z)	
	eP	04 52	12.1 (Z)			eS	46	46.8 (ZEE')	
	iS	53	08.0 (Z)			iP	D 11 50	59.6 (Z)	
	eP	05 00	44.6 (Z)			iS	51	13.6 (ZNE)	
	eiP	C 05 55	00.6 (Z)			iP	16 27	09.4 (Z)	
	iS	56	20.8 (NEE')			e(S)		24.8 (ZNE)	
	eP	06 16	52.8 (Z)			e	18 38	31.4 (E')	
	eiP	08 09	57.2 (Z)	T:00.9 A:04.3		eL	56	42.4 (Z')	
	iP	D 14 27	43.0 (Z)			iP	19 57	36.4 (ZZ')	
	iS	28	03.1 (ZNE)			iS	58	04.4 (Z'N'E')	
	iP	14 47	44.5 (Z)			iP	D 20 13	24.3 (Z)	
	iS		55.5 (NE)			iS	14	08.3 (N'E')	
	iP	C 15 27	36.3 (Z)			iP	22 48	31.9 (Z)	
	iS		55.7 (ZNE)			iS		36.4 (ZNE)	
	iP	D 15 30	43.9 (Z)		10	iP	C 00 03	22.4 (Z)	
	iS	31	49.5 (E)			iS		35.2 (ZNE)	
	eiP	16 41	41.8 (Z)			iP	C 00 50	13.6 (Z)	
8	eP	03 16	25.9 (Z)			eiP	02 38	43.7 (Z)	
	iS		32.2 (ZNE)			iS		58.2 (ZNE)	
	e(P)	05 54	05.6 (Z)			eP	04 35	33.9 (Z)	
	e	55	00.3 (Z)			eS	36	15.9 (ZNE)	
	eP	08 58	02.6 (Z)			eP	10 25	27.7 (Z)	
	iS	59	18.2 (E)			eS		45.7 (ZNE)	
	iP	09 58	16.2 (Z)			eP	11 29	05.6 (Z)	
	iS		28.8 (E)			iS		24.8 (ZNE)	
	iP	C 11 12	58.1 (Z)			iP	D 13 26	49.5 (Z)	
	iS	13	47.9 (E)			iS		54.4 (ZNE)	
	iP	C 17 32	50.0 (Z)			iP	C 17 03	26.5 (Z)	
	iS	33	35.1 (ZE)			iS		43.1 (NN'E)	
	eiP	C 21 05	10.3 (Z)			iP	23 10	18.6 (Z)	
	i	06	12.7 (E)			iS		23.3 (ZE)	
	iS		23.8 (NEE')		11	eP	04 56	50.8 (Z)	
9	eP	04 51	42.8 (Z)			eS	57	31.0 (NE)	
	e	58	49.2 (Z)			eP	07 46	32.7 (Z)	
	i	05 03	29.6 (Z)			iP	08 19	55.3 (Z)	
	e	10	15.8 (Z)			eiP	08 27	44.0 (Z)	
	eL	21	47.8 (Z')			iS	28	01.6 (ZNE)	
	iP	D 05 08	29.8 (Z)			e(P)	08 46	41.3 (Z)	
	iS		52.8 (ZNE)			eL	09 27	20.7 (Z'E')	
	eiP	06 07	15.2 (Z)			eP	10 25	53.0 (Z)	
	iS		38.3 (NE)			iS	26	18.8 (NE)	
	e	07 18	35.8 (Z')			iP	D 11 17	08.8 (Z)	
	e	34	18.8 (Z')			iS		23.5 (ZNE)	
	e	47	39.8 (N'E')			iP	C 13 11	43.3 (Z)	
	eL	52	25.8 (Z'E')			iS		49.5 (ZNE)	
	eP	09 29	56.6 (Z)			iP	C 14 52	56.7 (Z)	
	eS	31	00.3 (ZNE)			i	59	23.5 (N'E')	
						e	15 02	52.5 (N')	
						eL	08 19.5	(Z'E')	T:20.0 A:19.0



11 iP C 16 35 41.5 (Z)  
 eS 56.8 (ZE)  
 12 eP 04 08 03.7 (Z)  
 e(P) 04 13 45.4 (Z)  
 iP C 05 05 15.0 (Z)  
 i 16.8 (ZNE)  
 iS 41.8 (NE')  
 iP C 06 04 25.0 (Z)  
 iS 37.6 (ZNE)  
 eP 07 10 10.9 (Z)  
 eP 10 52 39.3 (Z)  
 i 40.9 (Z)  
 i 54 43.6 (NE)  
 i(S) 55 46.7 (ZNE)  
 eP 18 58 49.4 (Z)  
 i 59 07.9 (ZNE)  
 i(S) 19 00 26.9 (ZNE)  
 iP 21 28 45.5 (Z)  
 iS 52.6 (ZNE)  
 iP D 23 49 18.7 (Z)  
 iS 32.2 (ZNE)  
 13 eP 01 03 29.5 (Z)  
 e 06 32.0 (Z)  
 eP 03 09 48.6 (Z)  
 iS 11 14.1 (ZNE)  
 iP D 07 14 53.8 (Z)  
 iS 16 06.2 (ZNE)  
 iP C 08 06 00.5 (Z)  
 iS 12.9 (ZE)  
 eP 08 13 22.3 (Z)  
 eS 31.7 (ZNE)  
 eiP 09 58 18.7 (Z)  
 iS 38.1 (ZNE)  
 iP D 16 12 06.7 (ZZ')  
 i 16 25.5 (N'E')  
 e 24 07.5 (Z'N')  
 iP C 17 47 39.8 (Z)  
 eP 19 21 32.5 (Z)  
 e 20 12 07.4 (N')  
 e 16 19.4 (Z')  
 eP 20 07 54.3 (Z)  
 iS 08 33.7 (Z)  
 iP D 20 10 16.5 (Z)  
 i 36.5 (Z)  
 i(S) 11 45.5 (ZNE)  
 eP 21 06 18.5 (Z)  
 iS 07 09.2 (ZNE)  
 iP D 22 04 37.0 (Z)  
 iS 05 08.1 (ZNE)  
 iP 22 10 29.0 (Z)  
 iS 11 04.1 (ZE)  
 14 iP C 01 27 36.0 (Z)  
 eS 57.0 (ZNE)  
 eP 03 01 11.3 (Z)  
 e 05 48.9 (Z)

T:01.1 A:01.9

14 e(P) 03 08 29.9 (Z)  
 iP C 06 39 07.2 (Z)  
 iS 12.7 (ZNE)  
 eP 07 18 08.2 (Z)  
 e 29 36.8 (E')  
 e(L) 08 17 11.8 (Z')  
 eP 12 31 44.6 (Z)  
 eS 32 12.0 (ZNE)  
 eP 12 54 40.2 (Z)  
 i 43.4 (Z)  
 i 55 35.6 (ZNE)  
 i(S) 56 25.0 (ZN)  
 i(S) 42.8 (EZ'N'E')  
 iP C 13 21 13.2 (Z)  
 iS 38.6 (ZNE)  
 iP C 15 42 11.0 (Z)  
 iS 19.7 (Z)  
 iP C 16 33 25.4 (Z)  
 iS 40.7 (ZE)  
 iP 21 24 35.0 (Z)  
 iS 53.0 (ZNE)  
 iP D 22 41 30.4 (Z)  
 iS 42.3 (ZE)  
 15 iP 01 54 44.1 (Z)  
 i(S) 49.1 (ZEN'E')  
 eP 03 48 22.7 (Z)  
 iS 38.5 (ZNE)  
 eP 04 21 51.6 (Z)  
 iS 22 19.9 (NE)  
 eP 04 42 16.8 (Z)  
 iS 44.2 (ZN)  
 eP 05 24 05.2 (Z)  
 eS 28.1 (NE)  
 iP C 13 09 08.4 (Z)  
 e(S) 10 08.8 (Z)  
 e(P) 14 25 02.5 (Z)  
 iP D 20 40 41.2 (Z)  
 iS 41 10.1 (NN')  
 iP D 22 11 33.6 (Z)  
 e 23 16.3 (Z')  
 e(L) 30 28.3 (Z'N')  
 eP 22 32 46.3 (Z)  
 i 48.3 (Z)  
 i(S) 33 41.8 (ZN)  
 i(S) 46.8 (Z)  
 iP C 22 42 01.6 (Z)  
 iS 44.1 (N)  
 16 eiP 01 11 44.0 (Z)  
 iP C 03 39 13.0 (Z)  
 eP 05 33 52.8 (Z)  
 eS 34 30.6 (ZNE)  
 iP C 06 22 45.0 (Z)  
 iS 23 06.8 (ZNE)  
 iP C 15 18 28.3 (Z)  
 iS 19 39.0 (ZE)

T:00.9 A:00.9

16	iP	19	55	23.8	(Z)		19	iP	C	04	47	32.5	(Z)		
	iS		56	02.5	(ZNE)			iS			48	27.7	(NE)		
	iP	D	20	21	29.2	(Z)		iP	D	04	56	03.4	(Z)		
	iS				43.9	(Z)		eS			57	13.5	(ZNE)		
17	iP	C	01	29	18.5	(Z)		iP	D	05	18	28.7	(Z)		
	iS				30	12.9	(ZNE)	iS			19	25.6	(ZNE)		
	eP		03	32	21.9	(Z)		iP	C	08	32	49.8	(Z)		
	iS				33	18.8	(ZNE)	iS			33	11.6	(ZNE)		
	eP		03	51	26.4	(Z)		iP			18	16	46.4	(Z)	
	iS				52	07.9	(ZN)	eS			17	50.4	(ZNE)		
	iP	D	07	24	42.3	(Z)		eP			21	44	18.3	(Z)	
	iS				55.2	(ZNE)		eP			22	40	06.3	(Z)	
	iP	C	10	17	32.8	(Z)	T:00.8 A:01.0	20	iP		01	30	23.9	(Z)	
	iP	C	11	18	44.1	(Z)		iS				40.3	(ZNE)		
	iS				19	48.1	(ZNE)	iP	C	01	37	25.5	(Z)		
	e(P)		11	44	15.8	(Z)		iS				38.9	(N)		
	e				47	29.6	(Z')	iP			02	40	17.7	(Z)	
	i		12	04	33.6	(N'E')		iS				31.9	(ZNE)		
	iL				19	43.6	(N'E')	iP	C	03	32	59.0	(Z)		
	eL				25	11.6	(Z')	iS			33	32.4	(ZNE)		
	iL				27	59.6	(Z'N'E')	T:30.0 A:07.5	eP		08	46	51.8	(Z)	
	iP	C	16	33	34.9	(Z)		eS			47	19.7	(NE)		
	eS					51.5	(E)	iP	D	09	34	03.4	(Z)		
	i(P)	C	16	55	19.9	(Z)		iS				19.7	(ZNE)		
	iS					38.5	(N)	i(P)			13	50	54.8	(Z)	
	iP	C	23	01	01.8	(Z)		iP	D	15	18	54.0	(Z)		
	iS					18.5	(NE)	eP			15	40	51.5	(Z)	
18	iP	D	02	46	36.4	(Z)	T:00.9 A:01.0	eS				41	01.7	(Z)	
	iP	D	04	25	56.9	(Z)		eP			18	29	48.0	(Z)	
	eS				26	50.6	(ZNE)	iS			30	59.9	(E)		
	iP	C	04	56	42.0	(Z)		eP			19	10	56.8	(Z)	
	eiP				05	59	52.2	(Z)	iS			11	07.4	(NE)	
	eP				07	35	36.8	(Z)	iP	C	19	14	29.8	(Z)	
	eS					37	12.2	(ZNE)	iS			48.4	(ZNE)		
	e(P)				07	38	09.8	(Z)	eP			19	56	11.8	(Z)
	e(P)				10	05	47.7	(Z)	iP			22	14	23.7	(Z)
	eiP				18	09	20.9	(Z)	iP	D	22	15	25.8	(Z)	
	i						49.2	(Z)	iS			42.1	(ZE)		
	iP				18	55	02.6	(Z)	e(P)			22	50	35.2	(Z)
	iS						10.2	(ZE)	eS			52	08.7	(ZN)	
	iP				19	20	51.4	(Z)	21	iP	D	00	47	10.5	(ZZ')
	iS						55.9	(ZNE)	iS				27.6	(Z'N'E')	
	iP				22	36	25.5	(Z)	iP	C	05	12	55.1	(Z)	
	eS						53.8	(ZNE)	iS			13	24.3	(ZNE)	
19	iP	C	01	30	25.2	(Z)		eP			06	35	19.6	(Z)	
	i					30.0	(Z)	eS				33.8	(ZNE)		
	eP				02	16	40.5	(Z)	iP	D	11	19	37.5	(Z)	
	iS					18	17.9	(NE)	iS			59.4	(ZNE)		
	iP	C	02	37	03.0	(Z)		iP	D	16	37	53.5	(Z)		
	iS					16.9	(ZNE)	eS			38	21.7	(ZN)		
	eP				04	20	55.4	(Z)	iP	C	16	42	11.5	(Z)	
	e					23	32.5	(Z')	eS			26.5	(ZNE)		
	e				24	21.5	(Z'N'E')	eP			18	16	37.4	(Z)	
	e				41	22.9	(N'E')	i			17	07.2	(Z)		
	eL				05	04	40.9	(Z')	T:34.0 A:23.5						





26 iP 13 53 48.7 (Z)  
 iS 58.6 (N'E')

eP 14 50 49.5 (Z)  
 iS 51 14.8 (ZE)

iP D 16 00 47.1 (Z)  
 e 02 47.3 (ZNE)

eP 23 58 12.4 (Z)  
 i 21.4 (Z)

27 iP C 01 15 42.0 (Z)  
 iS 16 35.0 (ZNE)

iP 02 27 11.0 (Z)  
 iS 24.4 (ZE)

iP C 07 57 03.1 (Z)  
 i 26.4 (E)  
 iS 30.1 (ZE)

iP D 08 28 29.5 (Z)  
 iS 30 02.2 (NEZ'N'E')

iP D 08 52 39.2 (Z)  
 iS 50.1 (ZNE)

eP 09 18 18.7 (Z)  
 i 45.7 (Z)  
 eL 10 05 25.2 (N')

eL 23 09.2 (Z'N')

eL 54 22.2 (Z')

27 iP D 22 19 46.4 (Z)  
 e(S) 21 11.4 (Z)

28 eP 01 33 39.6 (Z)  
 e 34 22.8 (Z)

iP C 03 30 23.0 (Z)  
 iS 52.3 (N')

eP 04 16 25.1 (Z)  
 iS 31.6 (ZNE)

eP 04 54 59.1 (Z)

eP 10 05 05.2 (Z)

iP 16 21 14.9 (Z)  
 iS 38.3 (ZN)

iP C 23 52 40.8 (Z)  
 iS 53 13.0 (ZNE)

29 eP 00 25 25.3 (Z)  
 iS 58.0 (ZNE)

eP 01 43 51.2 (Z)

iP C 03 31 07.6 (Z)

eP 03 53 15.3 (Z)  
 iS 51.0 (ZNE)

iP 05 00 00.6 (Z)  
 iS 11.3 (ZNE)

eP 06 40 58.1 (Z)

iP C 07 54 46.0 (Z)

eP 10 53 18.0 (Z)

iP 16 31 45.3 (Z)  
 e(S) 32 03.8 (Z)

iP C 20 38 23.6 (Z)  
 iS 42.1 (ZNE)

iP D 22 18 52.3 (Z)  
 iS 20 01.4 (ZNE)

T:30.0 A:15.0

29 eP 23 25 41.4 (Z)

30 iP D 01 28 03.0 (Z)  
 iS 17.0 (ZNE)

iP C 02 57 53.0 (ZZ')  
 i 57.6 (Z)  
 e 30 07.0 (N')

eL 51 51.0 (N')

iP D 02 35 18.5 (Z)  
 iS 51.4 (ZNE)

eP 03 18 38.1 (Z)  
 i 40.8 (Z)  
 iS 19 25.7 (ZNE)

eP 03 25 53.1 (Z)

eiP 04 22 32.1 (Z)

eP 04 40 18.6 (Z)

eP 06 47 59.1 (Z)

eP 09 08 09.0 (Z)  
 i 28.4 (Z)

iP D 09 14 12.2 (Z)  
 iS 31.2 (ZNE)

iP 14 26 55.2 (Z)  
 iS 59.6 (ZNE)

iP C 16 32 35.2 (Z)  
 iS 50.5 (ZNE)

eP 17 16 58.3 (Z)  
 eS 17 27.5 (Z)

eP 17 39 46.8 (Z)

eP 21 08 12.6 (Z)  
 e(S) 10 29.4 (Z)

31 iP C 00 09 58.0 (Z)

iP C 00 34 49.3 (Z)  
 iS 35 29.2 (ZNE)

iP 02 31 32.0 (Z)  
 iS 32 00.0 (NE)

iP C 04 24 07.3 (Z)  
 i 19.3 (Z)  
 i 31.1 (Z)

eP 06 42 38.1 (Z)

eP 07 15 42.1 (Z)

eP 08 02 27.7 (Z)

eP 08 27 26.7 (Z)

iP C 08 35 50.3 (Z)  
 iS 54.5 (ZNE)

eP 09 27 49.6 (Z)

eiP D 10 36 23.8 (Z)  
 e 41 54.2 (Z'N'E')

i(S) 45 02.2 (Z'N'E')

eP 10 40 42.7 (Z)

eP 19 10 59.6 (Z)  
 eS 11 26.9 (Z)

T:00.9 A:01.9

C: compresión  
 D: dilatación





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

ABRIL, 1967

1 eP	02 47 52.8 (Z)	3 eP	05 00 39.6 (Z)
eP	04 13 54.7 (Z)	iP	D 05 02 39.3 (Z)
eS	15 08.6 (ZN)	iS	11.1 (ZNE)
eP	04 17 18.1 (Z)	eP	07 47 05.6 (Z)
i	22.0 (Z)	eP	08 23 45.6 (Z)
iP	C 04 55 23.6 (Z)	eL	09 03 21.1 (Z')
iS	56 29.5 (ZNE)	e	13 22 33.2 (Z')
eiP	06 13 41.4 (Z)	eL	41 57.2 (Z'N'E') T:30.0 A:08.0
e	16 24.6 (Z)	iP	D 14 01 43.2 (Z)
e	21 05.1 (Z)	iS	02 03.2 (ZE)
eP	07 06 21.1 (Z)	eP	16 09 33.3 (Z)
i	07 06.1 (Z)	e	10 22.3 (Z)
eL	19 30.1 (N')	iP	D 22 29 23.6 (Z)
e	33 31.1 (N'E')	iS	36.4 (ZNE)
e	57 21.1 (Z')	eP	23 41 17.7 (Z)
eP	10 47 54.2 (Z)	e	42 03.0 (Z)
e	49 12.2 (Z'E')	4 iP	D 00 57 06.8 (Z)
e	53 27.2 (N'E')	eP	02 42 15.3 (Z)
e	55 50.2 (N')	iS	26.0 (ZNE)
e	56 07.2 (Z'E')	eP	03 17 02.2 (Z)
e	57 21.2 (Z')	iP	D 04 28 41.6 (Z)
e	49.2 (N')	iS	51.7 (ZNE)
eP	12 42 50.2 (Z)	iP	D 04 49 45.1 (Z)
e	46 32.2 (N')	eS	50 57.0 (ZNE)
e	13 02 33.2 (N')	iP	D 07 12 15.4 (Z)
iP	D 15 12 18.2 (Z)	iS	36.6 (ZNE)
iS	33.8 (ZNE)	iP	C 07 20 01.0 (Z)
2 eP	00 52 20.7 (Z)	iS	53.3 (ZN)
eS	59.8 (ZNE)	iP	C 09 07 55.9 (Z)
eP	01 16 31.0 (Z)	eS	08 46.9 (ZE)
eS	17 43.0 (ZN)	iP	C 09 25 10.2 (Z)
eP	02 00 11.0 (Z)	i	26 40.2 (Z) T:01.0 A:03.8
i	36.0 (Z)	eP	10 09 29.2 (Z)
e	01 27.0 (Z)	eP	11 02 32.7 (Z)
eP	03 07 11.0 (Z)	eS	56.4 (Z)
eP	05 55 33.1 (Z)	eP	11 57 46.8 (Z)
iP	06 26 00.8 (Z)	iS	58 32.1 (ZE)
eS	24.3 (ZNE)	eP	12 05 35.7 (Z)
iP	C 09 28 28.1 (Z)	iS	40.2 (ZNE)
iS	44.3 (ZNE)	iP	C 16 41 54.6 (Z)
iP	D 15 20 35.7 (Z)	iS	42 10.9 (ZNE)
eS	55.2 (ZNE)	5 eP	00 10 40.0 (Z)
eP	17 59 55.7 (Z)	i	11 14.0 (ZE)
e(P)	18 47 47.3 (Z)	eS	22.0 (ZE)
iP	D 21 50 02.1 (Z)	iP	C 02 53 40.6 (Z)
iS	29.3 (ZNE)		
3 iP	C 01 38 03.0 (Z)		
iS	26.0 (ZNE)		

5 eP 03 07 25.1 (Z)  
 iP 04 55 59.1 (Z)  
 iS 56 28.0 (ZE)  
 iP D 06 19 43.1 (Z)  
 iS 56.1 (ZE)  
 iP D 06 30 48.7 (Z)  
 iS 31 04.1 (ZE)  
 eP 07 22 49.3 (Z)  
 iP D 08 10 03.7 (Z)  
 iS 08.6 (ZE)  
 eP 11 53 23.2 (Z)  
 eL 12 01 26.2 (ZNE)  
 iP D 13 45 15.6 (Z)  
 iS 46 04.2 (NE)  
 iP C 16 34 51.1 (Z)  
 iS 35 06.8 (ZN)  
 iP C 18 12 29.3 (ZZ')  
 iS 50.5 (N'E')

6 eP 01 22 28.2 (Z)  
 iP C 01 57 59.0 (Z)  
 iP C 02 48 34.0 (Z)  
 eP 03 04 07.3 (Z)  
 eP 03 47 41.1 (Z)  
 iP 04 10 38.9 (Z)  
 iS 43.1 (ZE)  
 eP 04 19 21.1 (Z)  
 eS 50.1 (NE)  
 eiP 06 37 14.6 (Z)  
 eP 07 15 09.8 (Z)  
 iP D 09 09 24.4 (Z)  
 iP D 09 26 28.6 (Z)  
 iP C 09 53 23.7 (Z)  
 iS 28.5 (ZE)  
 eiP 12 41 29.2 (Z)  
 iP D 15 21 13.0 (Z)  
 iS 26.4 (ZNE)  
 i(P) C 16 18 53.5 (Z)  
 iP D 18 35 58.6 (Z)  
 eP 23 00 20.5 (Z)  
 eS 52.4 (ZNE)  
 eP 23 48 35.4 (Z)  
 i 51 44.2 (Z)

7 iP C 00 15 06.3 (Z)  
 eS 15.0 (ZNE)  
 iP C 05 53 10.1 (Z)  
 iS 54 09.3 (ZNE)  
 iP D 06 30 23.5 (Z)  
 iS 41.1 (Z'N'E')

eP 10 34 50.2 (Z)  
 eS 35 48.2 (ZNE)  
 iP C 11 04 39.5 (Z)  
 eS 05 27.4 (ZNE)

T:01.0 A:05.0

T:01.0 A:03.5

T:01.0 A:01.8

7 iP D 13 51 28.5 (Z)  
 e(S) 55.2 (E)  
 eiP 16 00 49.5 (Z)  
 iS 54.3 (ZNE)  
 iP D 16 45 43.3 (Z)  
 iS 51.3 (ZNE)  
 iP C 22 55 01.6 (Z)  
 i 24.9 (Z)  
 i(S) 36.4 (Z)  
 iP C 23 34 06.4 (Z)

8 iP D 00 14 41.4 (Z)  
 iS 46.3 (ZNE)  
 iP C 01 06 47.8 (Z)  
 iS 07 01.7 (ZNE)  
 iP C 01 56 24.1 (Z)  
 iS 57 19.5 (Z)  
 iP C 02 49 38.5 (Z)  
 i(S) 59.6 (E)  
 iP C 03 49 53.3 (Z)  
 iP D 05 02 00.3 (Z)  
 iS 04.7 (ZNE)  
 eP 05 47 59.6 (Z)  
 eiP 09 31 41.9 (Z)  
 i(S) 32 36.5 (Z)  
 iS 45.8 (EE')

iP 09 53 25.8 (Z)  
 iS 30.5 (ZNE)  
 iP 10 18 06.4 (Z)  
 iS 11.9 (ZNE)  
 eP 10 20 47.5 (Z)  
 iS 21 10.7 (ZNE)  
 iP D 11 51 21.6 (Z)  
 iS 28.2 (ZNE)  
 eiP 11 58 33.2 (Z)  
 iS 59 24.1 (Z)  
 iP D 22 27 38.2 (Z)  
 iS 58.6 (ZNE)

9 eiP D 00 24 51.5 (ZZ')  
 i 55.5 (Z)  
 i 25 11.2 (Z)  
 e(L) 01 15 44.0 (Z')  
 iP C 05 50 55.7 (Z)  
 iS 51 00.6 (ZNE)  
 eP 08 12 27.1 (Z)  
 i 37.8 (Z)  
 eiP D 09 16 03.9 (Z)  
 e(P) 13 01 43.2 (Z)  
 e 03 40.7 (Z)  
 iP C 14 11 39.3 (Z)  
 i(S) 12 01.9 (ZN)  
 eP 14 37 10.2 (Z)  
 eP 16 09 20.3 (Z)  
 i 31.3 (Z)  
 eiP 18 01 31.5 (Z)  
 i 36.3 (Z)

T:01.6 A:13.5



9 eP	22 53 48.4 (Z)	13 iP	C 01 38 58.6 (Z)
10 eP	01 59 38.0 (Z)	iS	39 13.2 (ZNE)
eP	05 18 58.1 (Z)	eP	05 32 47.9 (Z)
eP	07 14 35.6 (Z)	i	33 07.4 (Z)
eP	08 06 16.1 (Z)	i	37 12.0 (ZNE)
iP	12 42 04.7 (Z)	eP	06 55 13.3 (Z)
eP	15 21 47.3 (Z)	e	56 56.6 (Z)
e	23 49.3 (Z')	eiP	07 35 05.8 (Z)
e	41 24.3 (N')	iS	19.7 (NE)
e(L)	16 01 07.3 (Z')	iP	C 07 36 46.9 (Z)
eP	16 59 44.3 (Z)	iS	37 07.2 (ZNE)
e	17 09 45.3 (Z)	iP	13 53 59.2 (Z)
e	20 27.3 (E')	iS	54 12.2 (ZNE)
eP	17 16 46.8 (Z)	eiP	D 17 44 16.8 (Z)
eP	23 04 53.4 (Z)	i(S)	46 23.8 (E)
e	05 26.9 (Z)	eiP	C 20 08 12.2 (Z)
11 iP	D 01 32 17.1 (Z)	14 iP	C 03 18 09.0 (Z)
i	36.1 (NE)	iS	26.9 (ZNE)
eP	05 13 03.8 (Z)	eP	04 01 42.1 (Z)
eP	05 29 08.1 (Z)	iS	59.3 (N)
e	42.3 (Z)	eiP	05 26 40.1 (Z)
iP	C 09 46 37.5 (Z)	eP	07 31 49.1 (Z)
i(S)	47 45.6 (E)	iS	32 06.4 (ZNE)
eP	10 42 00.8 (Z)	iP	C 10 40 54.2 (Z)
i	11.3 (Z)	iS	41 10.7 (ZNE)
iS	43 21.2 (NEE')	iP	C 11 55 28.5 (Z)
eiP	10 55 43.2 (Z)	iS	56 05.9 (NE)
iS	56 12.2 (N)	iP	C 16 24 12.2 (Z)
iP	D 12 49 51.4 (Z)	iS	34.9 (N)
e	57 32.2 (E')	iP	D 18 32 52.3 (Z)
e(L)	13 00 05.2 (E')	iS	33 17.7 (ZE)
eL	04 09.2 (Z')	eiP	19 54 35.2 (Z)
e(P)	23 08 27.2 (Z)	i(S)	55 07.9 (N)
12 iP	D 01 05 43.4 (Z)	15 iP	C 01 19 58.4 (Z)
iS	06 20.0 (ZNE)	i	20 14.3 (N)
iP	D 02 27 31.6 (Z)	iP	D 02 50 20.3 (Z)
iS	36.7 (ZNE)	iS	42.5 (ZNE)
eP	04 10 06.8 (Z)	iP	C 05 51 52.1 (Z)
iS	33.5 (ZNE)	iS	52 19.1 (ZNE)
eiP	C 04 47 53.3 (Z)	eP	06 20 42.6 (Z)
eiP	C 05 11 41.1 (ZZ')	i	21 03.7 (N)
i	16 17.4 (ZZ'N'E')	iP	D 06 23 17.4 (Z)
i	30 02.1 (N'E')	iS	32.5 (ZNE)
i	36 53.1 (E')	eP	08 18 20.1 (Z)
iP	C 09 01 02.6 (Z)	iS	19 50.1 (NE)
iS	26.5 (ZNE)	iP	C 10 32 04.2 (Z)
eiP	C 10 54 25.8 (Z)	iS	33 32.1 (NE)
iS	51.0 (E)	iP	C 12 01 58.6 (Z)
iP	C 16 36 06.8 (Z)	iS	02 14.7 (E)
iS	21.8 (Z)	iP	D 19 27 47.8 (Z)
iP	17 22 10.3 (Z)	i	28 25.2 (E)
iS	26.5 (ZNE)	eiP	23 06 50.4 (Z)
eiP	18 26 50.8 (Z)	iS	07 10.9 (ZNE)
iP	C 21 26 34.4 (Z)	16 eP	00 53 37.4 (Z)
i	44.2 (Z)	iS	54 08.7 (N)
e	30 12.4 (E')		

16	iP	C 03 15	15.1 (Z)		18	eP	06 55	18.1 (Z)	
	iS		48.6 (ZNE)			iP	C 07 11	22.6 (Z)	T:01.0 A:02.5
	eP	04 00	08.3 (Z)			eP	09 03	55.1 (Z)	
	iS		29.6 (ZNE)			iS	04 53.9 (ZE)		
	iP	D 05 51	24.2 (Z)			iP	C 09 40	12.2 (Z)	
	iS		58.6 (E)			iS		42.4 (ZNE)	
	iP	C 09 11	43.0 (Z)			e(P)	09 52	58.2 (Z)	
	iS	12	11.1 (ZNE)			eiP	17 02	30.1 (Z)	
	eP	10 04	37.5 (Z)			iP	C 19 41	10.6 (Z)	
	eiP	10 53	30.5 (Z)			iS		38.8 (Z)	
	iS		49.3 (N)			iP	C 23 17	58.1 (Z)	
	iP	D 11 47	04.4 (Z)			iS	18	27.4 (E)	
	i(S)		24.2 (N')			e(P)	23 29	48.9 (Z)	
	iP	D 11 52	03.5 (Z)		19	iP	D 01 47	06.4 (Z)	
	iS		21.2 (N)			iP	C 02 15	56.0 (Z)	
	iP	D 11 55	46.2 (Z)			i	16	19.0 (Z)	
	iS	56	03.8 (NE)			eiP	06 31	05.7 (Z)	
	iP	C 13 50	17.3 (Z)			eP	06 21	28.1 (Z)	
	iS		58.3 (NE)			iS		39.0 (ZN)	
	eP	14 55	18.2 (Z)			iP	C 07 10	41.6 (Z)	
	iS		35.5 (N)			iS	11	00.1 (ZNE)	
	iP	C 18 05	29.1 (Z)			iP	C 07 22	14.3 (Z)	T:01.0 A:03.5
	iS		46.0 (ZNE)			eP	07 32	03.6 (Z)	
	iP	C 20 28	58.3 (Z)			eP	08 00	39.8 (Z)	
	iS	29	33.2 (NE)			iS	01	09.2 (N)	
	e(P)	22 24	07.6 (Z)			eP	10 03	26.7 (Z)	
	iS		19.2 (NE)			iS	04	25.2 (ZE)	
17	eiP	C 00 12	52.0 (Z)			iP	C 12 17	45.7 (Z)	
	iP	D 01 19	55.0 (Z)			iS		59.2 (N)	
	iS	20	09.3 (ZNE)			iP	12 22	50.8 (Z)	
	iP	C 02 13	59.5 (Z)			iS	23	09.5 (NE)	
	iP	D 05 52	01.6 (Z)		20	iP	D 00 20	53.9 (Z)	
	iS	53	04.5 (ZNE)			i		57.9 (Z)	T:01.0 A:10.0
	eP	06 26	45.3 (Z)			eP	02 54	39.0 (Z)	
	iS	27	04.6 (ZNE)			iS		54.4 (ZNE)	
	e(P)	07 39	18.3 (Z)			iP	C 03 55	23.2 (Z)	
	eP	09 45	25.7 (Z)			iS		30.3 (ZNE)	
	iS		41.7 (ZNE)			eiP	04 26	42.9 (Z)	
	eP	12 04	22.7 (Z)			iP	C 05 33	30.9 (Z)	
	iS		45.4 (ZE)			i		38.6 (Z)	
	iP	C 16 47	45.8 (Z)			iS	34	25.0 (ZNE)	
	iS	48	00.2 (N)			eiP	05 42	46.9 (Z)	
	iP	D 19 05	22.2 (Z)			iS	43	12.0 (ZNE)	
	iP	D 19 41	03.1 (Z)			eP	06 12	08.1 (Z)	
	iS		36.8 (ZNE)			i		12.3 (Z)	
	i(P)	C 23 54	54.9 (Z)			iS		50.0 (ZNE)	
18	eiP	C 00 00	44.2 (Z)			iP	C 09 03	25.3 (Z)	T:01.0 A:02.0
	iS	01	45.5 (ZN)			iP	D 11 08	13.0 (Z)	
	eP	01 51	49.7 (Z)			eS		30.3 (Z)	
	i		52.6 (Z)			iP	12 36	02.2 (Z)	
	iS	52	19.0 (Z)			iS		20.2 (E)	
	iP	D 06 11	45.6 (Z)			iP	C 15 36	58.4 (Z)	
	iS		58.1 (ZNE)			iS	37	11.2 (ZNE)	



20 iP C 20 22 51.9 (Z)  
 iS 23 05.2 (ZNE)  
 i(P) D 20 59 39.3 (Z)  
 eS 21 01 16.5 (ZNE)  
 iP C 23 24 28.4 (Z)  
 iS 54.6 (ZNE)  
 21 eP 01 38 44.5 (Z)  
 iS 39 03.8 (ZNE)  
 iP C 02 14 42.3 (Z)  
 iS 59.5 (ZNE)  
 iP C 06 48 00.7 (Z)  
 iS 32.1 (ZNE)  
 eP 07 54 37.0 (Z)  
 iP D 08 34 21.0 (ZZ')  
 i 26.8 (Z)  
 e(L) 57 26.1 (N'E')  
 eL 09 28 43.1 (Z')  
 eiP 09 06 50.8 (Z)  
 iP D 15 27 26.0 (Z)  
 iS 45.2 (ZNE)  
 iP C 16 33 16.8 (Z)  
 i(S) 32.0 (ZN)  
 iP C 22 58 20.9 (ZZ')  
 iS 49.4 (N'E')  
 22 iP D 00 35 15.5 (Z)  
 iS 36 28.5 (ZN)  
 eiP 05 38 32.8 (Z)  
 eP 08 18 39.1 (Z)  
 iS 19 25.1 (N)  
 iP C 08 57 17.0 (Z)  
 i 21.0 (Z)  
 iP C 10 13 53.4 (Z)  
 iS 14 23.7 (ZN)  
 iP D 11 33 25.2 (Z)  
 iS 34 14.1 (ZNE)  
 eP 12 14 22.5 (Z)  
 iP D 14 49 03.0 (Z)  
 i 09.0 (Z)  
 e 52 56.2 (N'E')  
 e 54 43.2 (N'E')  
 e(P) 15 39 19.3 (Z)  
 eiP 20 01 35.3 (Z)  
 i 38.9 (Z)  
 i 02 14.3 (Z)  
 23 e(P) 04 41 50.1 (Z)  
 iP 04 42 01.6 (Z)  
 iS 21.1 (ZNE)  
 eP 04 55 15.0 (Z)  
 iS 33.7 (ZNE)  
 iP C 06 29 22.6 (Z)  
 eP 10 19 53.7 (Z)  
 eP 13 12 02.7 (Z)  
 iS 45.2 (ZNE)  
 eiP C 15 20 53.9 (Z)  
 i 21 04.4 (Z)

T:01.0 A:08.0

T:01.0 A:14.0

23 iP D 16 25 41.8 (Z)  
 iS 26 03.1 (ZNE)  
 eP 17 30 03.4 (Z)  
 iS 22.0 (ZNE)  
 iP C 18 12 20.3 (Z)  
 iP C 22 31 08.0 (Z)  
 e 36 16.4 (N')  
 e 42 54.4 (Z'N')  
 24 eP 00 47 47.8 (Z)  
 iP 01 16 04.1 (Z)  
 iS 25.1 (ZNE)  
 iP C 01 27 49.6 (Z)  
 iS 28 10.9 (ZNE)  
 iP 06 28 24.0 (Z)  
 iS 29.0 (ZNE)  
 iP 06 58 02.2 (Z)  
 iS 36.4 (ZNE)  
 iP C 09 16 08.9 (Z) T:01.1 A:01.9  
 iP C 10 29 19.0 (Z)  
 iP C 14 57 47.0 (Z)  
 iP C 16 08 14.9 (Z)  
 iS 20.2 (ZNE)  
 iP D 16 42 13.5 (Z)  
 25 eP 02 29 12.7 (Z)  
 iS 30 38.2 (N)  
 iP 04 00 48.9 (Z)  
 iS 54.6 (ZNE)  
 eiP C 04 12 58.0 (Z)  
 eP 04 45 14.3 (Z)  
 eiP C 05 54 21.5 (Z)  
 iS 55 19.5 (NE)  
 eP 07 18 26.1 (Z)  
 eP 07 22 57.1 (Z)  
 e 23 34.1 (Z)  
 iP C 10 40 04.2 (ZZ') T:01.0 A:12.0  
 i 08.1 (Z) T:01.0 A:32.0  
 e 43 18.2 (E')  
 e 44 55.2 (Z'N'E')  
 eiP C 10 50 18.7 (Z)  
 i 31.8 (Z) T:01.0 A:06.0  
 eP 13 20 04.7 (Z)  
 eP 17 45 27.3 (Z)  
 iS 46 18.2 (ZE)  
 iP C 19 40 04.3 (Z)  
 i(S) 41 20.3 (E)  
 i(S) 25.2 (N)  
 iP D 21 09 57.7 (Z)  
 iS 10 14.3 (NE)  
 26 iP C 01 12 37.0 (Z)  
 iS 13 56.0 (Z)  
 eiP C 01 32 03.7 (Z) T:00.6 A:07.5  
 eP 03 40 27.1 (Z)  
 iS 41 06.0 (N)

26 eP 04 26 43.5 (Z)  
 iS 47.7 (ZNE)  
 eP 04 59 13.1 (Z)  
 iS 05 00 05.1 (ZNE)  
 iP C 06 34 35.6 (Z)  
 iS 51.2 (ZNE)  
 eP 07 46 31.1 (Z)  
 eP 11 56 17.4 (Z)  
 eP 18 56 11.5 (Z)  
 eP 21 10 25.3 (Z)  
 iS 11 05.3 (Z)  
 eiP 22 17 44.9 (Z)  
 iS 18 13.8 (N)  
 e(P) 22 56 16.6 (Z)  
 27 eiP C 00 47 11.2 (Z)  
 i 48 10.7 (Z)  
 e 52 09.2 (N'E')  
 e(L) 54 44.0 (Z')  
 59 18.0 (Z')  
 iP D 01 58 47.1 (Z)  
 iS 59 14.0 (ZE)  
 iP D 06 11 06.6 (Z)  
 iS 12 43.5 (E)  
 eiP C 08 29 25.1 (ZZ')  
 iP D 14 41 21.1 (Z)  
 iS 35.1 (ZNE)  
 iP D 17 46 34.6 (Z)  
 iS 51.9 (ZE)  
 eiP C 18 10 17.9 (Z)  
 iS 58.3 (ZNE)  
 iP D 19 30 00.8 (Z)  
 iS 11.4 (ZNE)  
 eP 23 20 18.4 (Z)  
 iP C 23 35 01.4 (Z)  
 i 04.9 (Z)  
 28 iP C 00 43 11.7 (Z)  
 iS 17.0 (ZNE)  
 iP C 02 01 21.5 (Z)  
 iS 52.8 (NE)  
 eP 04 38 45.1 (Z)  
 iS 39 19.6 (N)  
 iP D 10 30 44.2 (Z)  
 iS 59.2 (NE)  
 iP C 16 41 33.4 (Z)  
 iS 42 04.8 (E)  
 iP C 22 15 24.3 (Z)  
 iS 34.8 (ZNE)  
 eP 23 15 58.7 (Z)  
 29 eiP C 00 17 19.8 (Z)  
 i 23.5 (Z)  
 e 27 50.0 (N')  
 e(L) 48 25.0 (Z')  
 eP 00 32 55.0 (Z)  
 iS 33 13.0 (ZNE)  
 eP 02 24 22.5 (Z)

29 eP 04 15 02.7 (Z)  
 eP 04 47 48.7 (Z)  
 iS 48 03.1 (E)  
 eP 06 44 23.4 (Z)  
 eP 07 36 30.6 (Z)  
 iS 47.0 (ZN)  
 iP D 08 01 19.4 (Z) T:00.9 A:02.5  
 iP C 11 03 54.1 (Z)  
 iS 04 37.7 (ZNE)  
 eP 16 22 50.3 (Z)  
 iS 23 09.8 (N)  
 iP 16 48 35.7 (Z)  
 iS 51.4 (ZE)  
 iP C 16 57 02.0 (Z)  
 iS 58 33.1 (Z)  
 iP D 20 57 17.4 (Z)  
 iS 34.1 (ZNE)  
 30 iP C 07 25 46.1 (ZZ')  
 iS 27 06.1 (Z'N'E')  
 iP D 07 50 57.2 (Z)  
 eP 08 41 11.6 (Z)  
 i 28.9 (Z)  
 i 43 34.6 (NE)  
 eiP C 17 18 37.3 (Z)  
 iP D 21 24 57.1 (Z)  
 iS 25 14.3 (ZNE)  
 i(P) C 22 47 28.4 (Z)

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 -----  
 -----  
 C: compresión  
 D: dilatación

T:01.0 A:10.5  
 T:01.2 A:07.5

T:01.0 A:03.5





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

MAYO, 1967

1	iP	C 03 50	03.9 (Z)	3	i(P)	23 04	36.4 (Z)		
	iS		20.1 (ZNE)						
	eP	08 36	42.5 (Z)	4	iP	D 01 16	54.5 (Z)		
	i		58.7 (Z)		iS		17 07.5 (ZN)		
	e	38	42.6 (Z)		iP	C 01 35	21.9 (Z)		
	i(P)	09 57	39.9 (Z)		iS		37.6 (ZNE)		
	iP	C 10 17	48.5 (Z)		iP	D 03 22	27.1 (Z)		
	iS		18 28.9 (ZN)		iS		23 19.3 (ZNE)		
	iP	D 11 06	07.6 (Z)		i(P)	05 34	09.6 (Z)		
	iS		26.7 (ZZ')		iS		45.1 (NE)		
	eP	23 10	07.8 (Z)		iP	C 06 14	39.2 (Z)		
					iS		55.1 (N)		
2	iP	C 01 23	42.9 (Z)		iP	D 08 26	35.2 (ZZ')	T:01.0 A:32.0	
	iS		24 10.9 (ZNE)		i		42.6 (Z)	T:01.0 A:17.5	
	iP	D 10 31	12.1 (Z)		i(S)	33	51.7 (Z'N'E')		
	iS		34.6 (ZNE)		e(L)	39	44.1 (N'E')		
	iP	C 14 32	13.1 (Z)		eL	42	44.0 (Z')		
	iS		29.3 (ZNE)		iP	D 09 01	12.6 (Z)		
	iP	C 16 56	23.2 (Z)		iS		25.7 (ZNE)		
	iS		28.5 (ZNE)		iP	D 09 25	01.6 (Z)		
	iP	C 20 54	38.1 (Z)		iS		14.0 (ZNE)		
	iS		53.2 (Z)		eiP	C 09 40	23.7 (Z)		
	iP	C 21 18	28.8 (Z)		iS		41 06.5 (ZNE)		
	iS		19 21.5 (ZNE)		eP	10 34	15.9 (Z)		
	eP	21 29	18.4 (Z)		i		36 45.5 (N)		
	iS		28.5 (ZNE)		eP	14 43	55.6 (Z)		
	eP	23 06	55.5 (Z)		iS		44 38.4 (E)		
3	eiP	C 01 58	33.0 (Z)		eP	22 20	18.6 (Z)		
	eP	02 37	49.1 (Z)		iS		37.3 (ZNE)		
	eS		38 23.0 (ZNE)		eiP	22 45	15.2 (Z)		
	eP	02 49	51.5 (Z)	5	eiP	C 00 21	55.0 (Z)		
	iP	C 05 11	59.6 (Z)		eP	00 50	14.0 (Z)		
	iS		12 26.4 (NE)		eS		40.0 (ZE)		
	iP	C 05 20	21.0 (Z)		iP	C 00 52	10.0 (Z)		
	iS		27.7 (ZNE)		iS		50.1 (ZNE)		
	iP	C 07 15	16.1 (Z)		iP	02 54	30.0 (Z)		
	iS		16 22.0 (ZNE)		iS		41.0 (ZNE)		
	iP	C 07 47	20.9 (Z)		eP	07 28	49.7 (Z)		
	iS		26.2 (ZNE)		e		29 25.1 (Z)		
	e(P)	08 48	44.3 (Z)		iP	D 09 08	20.2 (Z)		
	iP	C 12 21	36.1 (Z)		eS		49.6 (ZNE)		
	iS		40.9 (ZNE)		iP	C 14 02	18.8 (Z)		
	iP	C 16 33	17.8 (Z)		iS		40.7 (ZNE)		
	iS		30.6 (N)		eiP	D 14 34	39.3 (Z)		
	i(P)	19 00	28.8 (Z)		eS		35 11.2 (ZNE)		
	i(P)		36.8 (Z)		e	15 57	34.2 (N'E')		
	iS	01	30.1 (N)						

5	eiP	16 30	14.2 (Z)						
	i		17.4 (Z)						
	i(S)		32.4 (Z)						
	iP	D 16 37	03.3 (Z)						
	iS		33.0 (E')						
	iP	C 16 46	28.3 (Z)						
	i(S)		58.9 (Z)						
	e(P)	17 58	17.3 (Z)						
	iP	D 19 32	51.2 (Z)						
	iS		33 19.8 (Z)						
	iP	D 19 47	54.3 (Z)						
	iS		48 09.2 (ZNE)						
	e(P)	22 53	57.7 (Z)						
6	iP	C 00 18	00.3 (Z)						
	iS		31.3 (NE)						
	iP	D 01 03	59.5 (Z)						
	iS		04 09.3 (ZNE)						
	eP	02 14	34.7 (Z)						
	e(P)	02 48	55.0 (Z)						
	eiP	C 02 59	00.6 (Z)						
	iS		27.0 (ZNE)						
	iP	D 05 53	35.7 (Z)						
	iS		54 04.3 (ZN)						
	eP	06 48	29.7 (Z)						
	eS		49 11.3 (Z)						
	eP	07 59	47.1 (Z)						
	iS	08 00	01.9 (ZNE)						
	eP	08 05	32.6 (Z)						
	eS		06 01.1 (Z)						
	eP	08 29	43.6 (Z)						
	iS		30 29.1 (NE)						
	eP	08 40	24.1 (Z)						
	e		47 52.1 (Z'N'E')						
	e	09 00	32.1 (Z'N'E')						
	iP	C 10 14	56.0 (Z)						
	iS		15 12.2 (Z)						
	iP	C 10 57	24.2 (Z)						
	iS		58 21.5 (Z)						
	iP	C 13 24	28.7 (Z)						
									T:00.8 A:03.3
	iP	C 13 57	26.9 (Z)						
	iS		55.8 (ZN)						
	eP	14 07	35.4 (Z)						
	eP	19 46	39.3 (Z)						
	iS		48 39.4 (ZNE)						
	iP	D 20 02	17.3 (Z)						
	i		33.5 (Z)						
	iS		54.4 (NE)						
	eP	20 32	36.3 (Z)						
	iS		49.8 (ZNE)						
	e(P)	23 04	37.4 (Z)						
	iP	C 23 20	42.9 (Z)						
	iS		21 27.6 (ZE)						
7	eiP	01 33	11.5 (Z)						
	iP	C 04 47	53.5 (Z)						
	iS		48 09.7 (ZNE)						
	iP	C 06 07	17.2 (Z)						
	iS		28.5 (NE)						
	iP	C 06 24	52.0 (Z)						T:00.8 A:02.0
	iP	C 10 30	50.0 (Z)						
	iS		31 08.5 (ZN)						
	iP	C 11 38	50.7 (Z)						
	iS		39 08.0 (ZNE)						
	eP	14 36	48.8 (Z)						
	eP	14 44	44.9 (Z)						
	iS		45 15.4 (E)						
	e(P)	15 37	53.7 (Z)						
	iP	C 18 31	07.3 (Z)						
	iS		59.2 (ZN)						
	iP	19 19	21.6 (Z)						T:00.8 A:05.0
	e(P)	22 58	50.7 (Z)						
8	eP	02 51	00.3 (Z)						
	e(P)	06 19	35.3 (Z)						
	iP	C 06 38	12.4 (Z)						
	iS		41.9 (N)						
	eiP	06 46	50.1 (Z)						
	eP	07 04	18.1 (Z)						
	eP	07 06	41.8 (Z)						
	e(P)	07 16	14.9 (Z)						
	e		57.7 (Z)						
	eP	07 29	56.3 (Z)						
	eiP	D 07 38	18.4 (Z)						
	iS		33.1 (NE)						
	eP	07 40	22.1 (Z)						
	e(P)	08 11	07.6 (Z)						
	e		38.5 (Z)						
	iP	C 11 41	56.7 (Z)						
	iS		42 16.9 (Z)						
	eiP	C 15 04	33.7 (Z)						
	iS		05 19.6 (Z)						
	eP	18 58	13.3 (Z)						
	iP	D 23 27	24.2 (Z)						
	iS		41.6 (Z)						
9	iP	C 01 14	28.7 (Z)						
	iS		53.0 (ZNE)						
	eiP	02 19	58.2 (Z)						
	eS		21 11.1 (Z)						
	iP	C 04 57	52.6 (Z)						
	iS		58 18.7 (ZNE)						
	iP	D 05 13	42.9 (Z)						
	iS		14 24.6 (ZNE)						
	eP	05 17	01.6 (Z)						
	iS		19.4 (ZNE)						
	e(P)	07 07	35.6 (Z)						
	e		08 05.8 (Z)						
	iP	C 09 35	48.9 (Z)						
	i		36 19.1 (E)						
	i		31.4 (N)						





15 eP 06 41 26.9 (Z)  
 eiP C 07 13 11.6 (Z)  
 eP 09 36 59.2 (Z)  
 iP D 13 28 26.5 (Z)  
 iS 46.5 (NE)  
 iP D 15 04 18.1 (Z)  
 iS 49.2 (NE)  
 eiP 17 10 35.5 (Z)  
 i 11 29.0 (Z)  
 iS 50.7 (N)  
 iP D 18 26 57.6 (Z)  
 iS 27 11.3 (ZNE)  
 eP 22 58 06.5 (Z)  
 16 eP 00 24 41.7 (Z)  
 iS 25 20.0 (ZNE)  
 eiP C 00 58 51.0 (Z)  
 i 55.3 (Z)  
 i 59 42.0 (ZZ'N'E')  
 i 01 00 06.0 (Z'N'E')  
 eP 03 56 15.1 (Z)  
 eS 36.8 (ZE)  
 iP D 05 18 52.2 (Z)  
 iS 56.1 (ZNE)  
 iP D 05 39 10.5 (Z)  
 eS 39.3 (ZNE)  
 eiP D 07 13 42.4 (Z)  
 eP 07 24 52.6 (Z)  
 eP 08 21 43.1 (Z)  
 i 22 05.1 (Z)  
 e 30 38.1 (N')  
 e(L) 31 48.1 (Z'N'E')  
 eP 09 17 59.4 (Z)  
 iS 18 16.6 (N)  
 eP 13 04 58.5 (Z)  
 e(P) 19 44 39.0 (Z)  
 eP 23 01 49.4 (Z)  
 17 eP 04 53 24.5 (Z)  
 iS 42.8 (ZNE)  
 eP 05 33 12.4 (Z)  
 i 24.2 (Z)  
 iS 34 18.2 (ZNE)  
 eP 06 52 44.6 (Z)  
 iS 53 06.9 (ZN)  
 eP 07 12 03.3 (Z)  
 eP 07 15 17.9 (Z)  
 eiP D 07 19 45.4 (Z)  
 e 22 07.0 (Z)  
 e(P) 09 28 18.6 (Z)  
 i 57.2 (Z)  
 iP D 11 09 57.8 (Z)  
 iP D 12 03 02.7 (Z)  
 iS 20.1 (ZNE)  
 iP C 12 10 59.3 (Z)  
 iS 11 04.6 (ZNE)

T:01.0 A:03.0

17 eP 16 39 16.5 (Z)  
 iS 34.8 (ZE)  
 iP 20 00 05.1 (Z)  
 iS 51.2 (N)  
 e(P) 21 23 04.3 (Z)  
 i 47.0 (Z)  
 i(P) 21 40 55.8 (Z)  
 18 iP C 00 14 02.0 (Z)  
 iS 22.3 (NE)  
 eP 00 49 40.7 (Z)  
 iS 55.7 (ZN)  
 iP D 02 34 45.8 (Z)  
 iS 58.4 (Z)  
 eiP 03 53 21.0 (Z)  
 iS 35.1 (ZNE)  
 eP 04 26 32.1 (Z)  
 e(P) 05 31 12.1 (Z)  
 eP 07 36 17.9 (Z)  
 eS 55.2 (N)  
 eP 07 52 53.6 (Z)  
 e 53 28.8 (Z)  
 iP C 08 51 05.5 (Z)  
 iS 18.1 (ZNE)  
 iP D 09 14 49.4 (Z)  
 eS 15 17.5 (ZNE)  
 eiP C 13 02 45.2 (Z)  
 iP D 14 54 27.7 (Z)  
 iP D 14 59 09.6 (Z)  
 iS 27.4 (ZNE)  
 iP 16 05 44.8 (Z)  
 iS 06 02.7 (ZNE)  
 iP C 17 00 54.3 (Z)  
 iS 01 37.0 (ZNE)  
 iP C 18 42 32.8 (Z)  
 iS 48.1 (ZNE)  
 19 eP 01 09 09.5 (Z)  
 iS 35.0 (ZNE)  
 iP C 04 58 08.3 (Z)  
 iS 36.8 (ZNE)  
 iP C 05 05 02.5 (Z)  
 iS 18.8 (ZNE)  
 eiP 07 42 36.4 (Z)  
 iS 43 01.1 (ZNE)  
 iP 10 52 31.2 (Z)  
 iS 53 21.2 (ZNE)  
 iP 11 21 38.6 (Z)  
 iS 23 08.0 (ZE)  
 iP C 11 52 34.1 (Z)  
 iS 52.2 (ZE)  
 iP C 16 16 40.3 (Z)  
 iS 17 51.2 (ZNE)  
 ei(P) 16 34 53.1 (Z)  
 20 eiP 03 10 43.1 (Z)  
 i 56.6 (Z)

T:01.0 A:03.0  
 T:01.0 A:04.2





24 eP 08 40 45.6 (Z)  
i(S) 41 09.2 (N)  
eP 08 48 23.4 (Z)  
iS 49 18.1 (NE)  
iP C 16 37 43.3 (Z)  
i 57.8 (N)  
iP C 18 51 31.8 (Z)  
iS 54.3 (E)  
iP C 19 13 10.3 (Z)  
iS 45.3 (ZNE)  
e(P) 22 30 19.4 (Z)  
25 e(P) 04 53 31.3 (Z)  
eP 09 45 34.9 (Z)  
iS 46 09.6 (ZNE)  
iP C 16 31 42.4 (Z)  
i(S) 55.9 (N)  
eiP 17 10 08.1 (Z)  
iS 20.8 (ZNE)  
eiP C 17 14 20.3 (Z)  
iP C 20 24 14.1 (Z)  
iS 29.2 (ZE)  
26 eP 01 21 26.0 (Z)  
eS 22 16.9 (ZNE)  
iP D 03 11 58.4 (Z)  
iS 12 50.1 (ZNE)  
i(P) D 07 43 50.4 (Z)  
iP D 09 25 04.1 (Z)  
eP 14 50 55.4 (Z)  
iP D 21 36 59.4 (Z)  
i 37 04.4 (Z)  
27 eP 02 02 22.5 (Z)  
iP 02 57 13.5 (Z)  
iP C 04 20 01.0 (Z)  
iS 21.4 (ZNE)  
eP 04 46 11.1 (Z)  
eiP D 06 25 48.1 (Z)  
iS 26 14.5 (ZNE)  
iP C 07 59 03.1 (Z)  
i(S) 32.0 (N)  
eP 11 16 01.9 (Z)  
iS 26.7 (NE)  
iP C 16 34 50.0 (Z)  
iS 35 02.8 (N)  
eP 16 38 56.2 (Z)  
iS 39 17.1 (NE)  
eP 17 41 11.0 (Z)  
e 42 52.3 (Z')  
i 52 38.3 (Z')  
e(L) 18 10 52.3 (E')  
eL 18 14.3 (Z')  
eiP 19 25 28.8 (ZZ')  
e 33 22.3 (E')  
e(L) 20 16 16.3 (Z')  
eP 22 50 36.6 (Z)  
i 43.7 (Z)

T:01.0 A:01.0

T:01.0 A:05.8

T:00.9 A:20.5

T:01.0 A:03.0

28 iP D 00 49 15.8 (Z)  
iS 32.9 (N)  
iS 35.0 (ZNE)  
e(P) 02 25 02.6 (Z)  
iP C 03 07 14.5 (Z)  
eP 04 27 26.6 (Z)  
iP D 05 04 49.8 (Z)  
iS 05 21.4 (ZNE)  
eP 05 15 24.8 (Z)  
iS 35.0 (ZNE)  
eP 06 46 02.9 (Z)  
e 47 10.1 (Z)  
eiP 13 44 42.5 (Z)  
iS 45 09.4 (ZNE)  
eP 16 31 13.7 (Z)  
iS 32 03.4 (E)  
iP C 18 05 10.3 (Z)  
i(S) 40.3 (E)  
eiP D 20 04 45.8 (Z)  
29 eiP D 00 26 59.0 (Z)  
eiP C 05 05 24.1 (Z)  
e 06 07.6 (Z)  
eP 05 12 27.4 (Z)  
iS 46.2 (ZNE)  
eP 06 43 31.1 (Z)  
iP D 06 45 37.4 (Z)  
iS 46.1 (ZNE)  
eP 06 50 05.6 (Z)  
e(P) 10 13 25.6 (Z)  
eP 10 16 48.5 (Z)  
iS 51.3 (ZNE)  
iP 13 29 12.7 (Z)  
i 15.5 (Z)  
iS 30 13.6 (ZNE)  
iP C 16 31 57.2 (Z)  
iS 32 11.9 (N)  
iP D 23 08 18.6 (Z)  
iS 27.7 (ZNE)  
30 iP C 02 49 56.1 (Z)  
iS 50 48.0 (ZNE)  
eP 03 21 15.8 (Z)  
iS 22 04.3 (ZNE)  
eiP 04 08 49.0 (Z)  
iS 09 11.1 (ZNE)  
e(P) 05 41 43.6 (Z)  
eP 06 59 08.6 (Z)  
e 41.1 (Z)  
iP C 13 01 28.6 (Z)  
iS 34.6 (ZNE)  
iP C 14 27 54.7 (Z)  
iS 28 00.8 (ZNE)  
eiP C 16 17 28.7 (Z)  
iS 40.2 (ZNE)

T:00.6 A:02.0

T:01.0 A:04.0



30 iP C 16 36 39.0 (Z)  
 iS 59.3 (N)  
 iP C 17 34 49.7 (Z)  
 iS 35 04.3 (ZNE)  
 iP D 22 04 53.7 (Z)  
 iS 57.9 (ZNE)  
 iP C 23 03 17.4 (Z)  
 iS 23.3 (ZNE)  
 iP C 23 54 47.2 (Z)  
 i(S) 55 22.5 (ZNE)  
 31 e(P) 01 15 59.4 (Z)  
 iP C 04 47 00.2 (Z)  
 iS 08.3 (ZNE)  
 eP 06 26 16.1 (Z)  
 i 39.5 (Z) T:00.9 A:02.7  
 iP C 07 04 34.9 (Z)  
 iS 05 06.0 (ZNE)  
 iP C 08 02 38.1 (Z)  
 iS 03 11.6 (E)  
 eP 08 25 36.9 (Z)  
 iS 55.1 (ZN)  
 iP C 08 39 42.9 (Z)  
 iS 58.1 (NE)  
 e(P) 11 44 59.7 (Z)  
 iP C 13 46 47.4 (Z)  
 iS 47 16.4 (ZE)  
 eP 22 46 55.8 (Z)

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C: compresión

D: dilatación



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

JUNIO, 1967

11	iP	D 01 00	14.2 (Z)		3	eP	06 13	23.8 (Z)	
	i		23.2 (E)			i		34.1 (Z)	
	eP	03 06	51.0 (Z)			i		42.6 (Z)	T:00.9 A:11.5
	iS	07	37.6 (ZNE)			i	15	18.4 (ZNN'E')	
	eiP	04 37	41.8 (Z)			i		36.4 (ZZ')	T:01.4 A:28.0
	iS	38	19.2 (Z)			i	16	02.1 (N')	T:18.0 A:62.5
	eiP	C 05 45	33.1 (Z)			i		56.1 (E')	T:16.0 A:36.0
	iP	C 07 02	23.0 (Z)			eP	08 11	30.1 (Z)	
	iS		28.3 (ZNE)			iP	C 13 10	06.7 (ZN'E')	T:01.0 A:04.5
	eP	07 12	01.4 (Z)			i		33.5 (Z)	T:01.0 A:10.5
	eP	07 34	05.6 (Z)			i	11	03.6 (N'E')	T:01.0 A:10.0
	iP	D 09 46	18.1 (Z)			i	12	20.2 (N'E')	
	i	47	32.0 (Z)			iP	C 16 35	33.2 (Z)	
	e	48	25.3 (N')			iS		48.7 (ZNE)	
	iP	C 16 54	03.6 (Z)			iP	D 18 03	07.3 (Z)	
	iS		19.2 (ZNE)			iS		22.3 (NE)	
	e(P)	C 17 34	25.2 (Z)			eiP	19 30	38.7 (Z)	
	iP	18 37	31.8 (Z)			iP	C 21 17	24.8 (Z)	
	iS		50.3 (ZNE)			iS		40.8 (ZNE)	
	eP	22 40	32.5 (Z)			eP	23 03	23.5 (Z)	
2	eiP	C 01 58	56.0 (Z)			e		40.1 (Z)	
	eP	03 49	13.1 (Z)			eP	23 38	13.3 (Z)	
	iS		46.5 (NE)			4	eP	02 11	51.5 (Z)
	iP	D 03 53	32.6 (Z)			iS		12 13.6 (N)	
	iS		48.5 (ZNE)			iP	D 08 44	40.4 (Z)	
	eiP	04 47	22.4 (Z)			iS		47.8 (ZNE)	
	iP	D 06 08	38.8 (Z)			eiP	D 16 33	43.0 (Z)	
	iS		55.2 (ZNE)			i(S)	35	06.7 (Z)	
	eP	06 39	47.1 (Z)			iS		10.7 (NE)	
	e	41	27.4 (Z)			eiP	18 17	28.0 (Z)	
	e	50	00.1 (ZL)			i		31.3 (Z)	
	e	54	20.1 (E')			i(S)	18	26.5 (Z)	
	i	59	24.1 (Z')	T:14.0 A:05.5		eiP	18 29	39.6 (Z)	
	eP	09 08	03.5 (Z)			i		42.8 (Z)	
	e		53.4 (Z)			i(S)	30	35.0 (ZZ'N')	
	iP	C 13 26	46.7 (Z)			i	31	00.3 (E')	
	i(S)		28 14.2 (NE)			eP	18 41	28.8 (Z)	
	eP	22 45	56.8 (Z)			iS		42 19.3 (Z)	
	iS	47	13.3 (ZNE)			iP	C 19 13	25.5 (Z)	
3	eP	02 01	46.5 (Z)			iS		41.9 (Z)	
	iS	02	40.0 (ZNE)			iP	C 21 41	34.5 (Z)	
	e(P)	02 10	05.0 (Z)			iS		42 05.3 (ZNE)	
	eP	03 32	43.3 (Z)			eP	23 08	48.3 (Z)	
	iS	33	19.4 (ZNE)			5	eP	01 34	46.0 (Z)
		1				e		45 18.0 (Z'N'E')	
						e	02 05	04.0 (Z'N'E')	
						e(L)	08	48.0 (Z')	
						eL	22	32.0 (Z'E')	





9 e(P) 08 39 35.0 (Z)  
 eP 14 09 36.9 (Z)  
 iP 16 42 58.8 (Z)  
 iS 43 09.7 (ZNE)  
 iP C 18 18 43.0 (Z)  
 iS 19 25.7 (ZNE)  
 e(P) 22 59 17.8 (Z)  
 10 eP 01 38 06.5 (Z)  
 iS 34.1 (Z)  
 iP D 02 21 30.9 (Z)  
 iS 48.5 (ZNE)  
 eP 03 20 14.4 (Z)  
 iS 21 40.4 (ZNE)  
 eP 04 48 54.7 (Z)  
 iS 49 27.4 (Z)  
 iP D 05 32 06.0 (Z)  
 i 18.8 (Z)  
 i 34.1 (Z)  
 i(S) 36 29.8 (N'E')  
 eP 05 35 41.8 (Z)  
 e(L) 06 13 55.8 (Z')  
 eP 05 46 09.3 (Z)  
 eiP 05 56 00.2 (Z)  
 iP D 06 52 21.8 (Z)  
 iP D 07 19 51.0 (Z)  
 iS 20 45.1 (ZNE)  
 iP C 07 44 45.6 (Z)  
 iS 50.0 (ZNE)  
 eP 07 59 24.0 (Z)  
 iS 28.8 (ZNE)  
 eP 09 03 19.0 (Z)  
 iS 23.8 (ZNE)  
 e(P) 10 11 06.2 (Z)  
 iP C 16 35 33.7 (Z)  
 iS 50.2 (ZNE)  
 iP C 16 55 52.1 (Z)  
 i(S) 56 26.0 (Z)  
 eiP C 17 23 39.8 (Z)  
 iS 24 58.2 (ZE)  
 eiP C 18 12 19.2 (Z)  
 e 21 39.5 (N')  
 e(L) 24 19.5 (Z')  
 eP 23 01 02.9 (Z)  
 iP C 23 23 22.3 (Z)  
 iS 43.1 (ZNE)  
 11 eiP 04 23 46.9 (Z)  
 iS 59.9 (ZNE)  
 iP D 05 38 41.0 (Z)  
 iS 39 03.9 (ZNE)  
 eP 06 56 49.8 (Z)  
 iP C 16 17 17.8 (Z)  
 iS 28.0 (E)  
 iP C 21 21 39.3 (Z)  
 i 22 08.9 (N)

T:00.9 A:15.5  
 T:00.9 A:36.5  
 T:01.0 A:26.0

11 eP 22 53 38.8 (Z)  
 eiP 22 57 10.8 (Z)  
 12 eiP C 00 12 47.2 (Z)  
 eiP C 01 02 27.4 (Z)  
 eP 01 26 22.3 (Z)  
 eiP 01 42 37.0 (Z)  
 iS 43 02.4 (ZNE)  
 iP D 01 48 43.3 (Z)  
 iS 48.3 (ZNE)  
 eP 02 07 04.4 (Z)  
 eP 05 28 23.3 (Z)  
 eP 05 34 10.6 (Z)  
 i 17.8 (Z)  
 e 44 43.8 (N'E')  
 e 46 05.8 (N'E')  
 e 50 19.8 (N'E')  
 e(L) 57 43.8 (N'E')  
 eL 06 06 23.8 (Z')  
 iP C 07 58 07.7 (Z)  
 iS 36.3 (ZNE)  
 eP 08 10 08.3 (Z)  
 e 37.8 (Z)  
 eiP 09 33 11.9 (Z)  
 i 32.9 (Z)  
 iP D 11 20 57.2 (Z)  
 iS 21 16.2 (ZNE)  
 iP C 12 12 41.4 (Z)  
 iS 56.6 (ZNE)  
 eiP C 13 50 25.0 (Z)  
 iS 51 04.0 (E)  
 iP 14 22 24.8 (Z)  
 iS 38.2 (ZNE)  
 iP 16 37 49.2 (Z)  
 iS 38 04.7 (ZE)  
 iP C 19 36 55.5 (Z)  
 iS 37 00.9 (ZNE)  
 eP 23 07 39.3 (Z)  
 e 51.9 (Z)  
 13 iP C 02 42 37.9 (Z)  
 iS 43 32.4 (ZNE)  
 eiP 02 44 55.4 (Z)  
 iS 45 15.9 (ZNE)  
 e(P) 03 53 43.4 (Z)  
 eP 08 27 07.7 (Z)  
 i 12.4 (Z)  
 i(S) 29 22.2 (NE)  
 iP C 10 14 00.9 (Z)  
 iS 33.3 (ZNE)  
 eiP 15 14 38.3 (Z)  
 iS 15 55.9 (ZNE)  
 eP 16 01 38.5 (Z)  
 iP C 16 40 05.4 (Z)  
 iS 21.0 (ZN)  
 14 eP 01 55 24.4 (Z)  
 i 28.9 (Z)

T:01.0 A:02.8



14	iP	C 03	14	55.9	(ZZ')				
	i(S)		15	19.9	(Z'N'E')				
	iP	C 03	26	14.4	(Z)				
	iS			25.9	(ZNE)				
	eiP	C 03	53	04.9	(Z)				
	i(S)			29.6	(ZNE)				
	iS			39.4	(ZNE)				
	e(P)	05	30	18.3	(Z)				
	e		32	44.8	(Z)				
	e		34	01.8	(Z)				
	e(P)	05	36	41.8	(Z)				
	eP	06	29	34.8	(Z)				
	iS		30	04.0	(ZNE)				
	eP	06	35	43.2	(Z)				
	eP	07	09	54.6	(Z)				
	iS			59.9	(ZNE)				
	eP	07	27	10.3	(Z)				
	eP	07	33	59.8	(Z)				
	e		34	23.4	(Z)				
	iP	C 08	41	50.2	(Z)				
	iS		42	09.4	(ZNE)				
	eP	08	45	09.9	(Z)				
	iS			27.3	(ZNE)				
	eiP	10	19	15.2	(Z)				
	iS			59.9	(ZN)				
	eiP	16	34	32.0	(Z)				
	iS		36	05.7	(ZNE)				
	iP	D 21	23	54.2	(Z)				
	eP	22	56	59.5	(Z)				
15	eiP	01	18	49.0	(Z)				
	iS		19	08.9	(ZNE)				
	eP	03	04	54.9	(Z)				
	iS		06	08.2	(N)				
	eP	03	23	31.2	(Z)				
	iP	D 04	30	54.8	(Z)				
	iS		31	18.5	(NE)				
	eiP	C 05	48	58.8	(Z)				
	eP	08	00	57.0	(Z)				
	iP	C 10	25	43.5	(Z)				
	iS		26	17.4	(ZNE)				
	iP	C 10	47	23.7	(Z)				
	iS		48	34.6	(N)				
	e(P)	14	55	27.5	(Z)				
	iP	C 16	31	30.5	(Z)				
	iS			46.5	(ZN)				
	iP	C 17	43	19.2	(Z)				
	e(P)	17	53	38.9	(Z)				
	iP	D 20	26	01.9	(Z)				
	eP	22	40	11.0	(Z)				
	e			30.3	(Z)				
16	eP	00	51	45.5	(Z)				
	iS		52	29.5	(ZNE)				
	eiP	C 01	30	27.2	(Z)				
	iS			41.5	(ZNE)				
	eP	01	50	01.7	(Z)				
	iP	C 03	26	25.9	(Z)				
	iS			31.2	(ZNE)				
	iP	D 03	54	28.4	(Z)				
	iS			40.9	(ZNE)				
	eiP	C 04	25	49.5	(Z)				
	iS		26	56.1	(ZNE)				
	eP	05	48	07.1	(Z)				
	i			40.8	(Z)				
	eP	06	29	10.7	(Z)				
	iS			29.3	(ZNE)				
	eP	08	33	37.2	(Z)				
	iS			49.1	(ZNE)				
	eiP	10	02	39.2	(Z)				
	iS		03	29.7	(Z'N')				
	eP	12	04	53.5	(Z)				
	iS		05	11.1	(ZNE)				
	iP	C 16	32	18.8	(Z)				
	iS		33	18.7	(ZNE)				
	eiP	D 20	28	29.3	(Z)				
	i			37.6	(Z)				
	i		29	25.2	(E)				
	e		33	01.3	(N')				
	e(L)		37	35.3	(Z')				
	iP	C 00	34	30.3	(Z)				
	iS		35	17.0	(ZNE)				
	eiP	01	03	17.8	(Z)				
	i		04	08.0	(Z')				
	e(S)		08	40.0	(N'E')				
	e		10	50.0	(N')				
	i		12	30.0	(Z')				
	i(L)		22	31.9	(Z')				
	iP	C 04	49	09.8	(Z)				
	iS			20.3	(ZNE)				
	iP	D 05	09	17.3	(ZZ')			T:00.9	A:60.0
	i			59.8	(Z)			T:00.9	A:20.0
	i		10	14.6	(Z)			T:01.0	A:15.0
	i		14	02.5	(Z)			T:01.0	A:08.0
	i(S)		16	25.8	(Z'N'E')			T:14.0	A:26.5
	i		17	18.6	(ZE')				
	i		19	49.8	(E')				
	i		23	17.8	(E')				
	i		30	39.8	(E')				
	i		32	31.8	(Z')			T:18.0	A:22.0
	eP	05	39	21.8	(Z)				
	e(P)	07	47	10.2	(Z)				
	iP	C 09	03	43.0	(Z)				
	iS		04	00.9	(ZE)				
	iP	C 11	27	37.1	(Z)				
	iS		28	06.4	(ZE)				
	iP	D 13	37	50.4	(Z)				
	iS		38	04.3	(Z)				
	iP	C 14	15	37.7	(Z)				
	iS		16	29.4	(ZNE)				
	iP	C 15	08	13.7	(Z)				
	iS			29.1	(ZNE)				
	iP	C 16	38	06.8	(Z)				
	iS			24.1	(ZE)				

17	iP	D	17	50	44.4	(Z)	T:01.0 A:04.0	19	e(P).	19	54	37.3	(Z)	
	e(P)		18	05	04.4	(Z)			eiP	D	22	12	34.9	(Z)
	iP	C	18	42	57.5	(Z)			i		13	17.8	(Z)	
	iS		43	15.6	(ZNE)				iP	C	23	11	35.8	(Z)
	e(P)		23	16	07.2	(Z)		20	eP		00	29	27.0	(Z)
	i				39.2	(Z)			iS		30	04.7	(ZN)	
	iP	C	23	23	55.0	(Z)			eP		04	54	13.8	(Z)
	iS		24	18.1	(ZNE)				eP		06	41	13.3	(Z)
	eP		23	26	08.8	(Z)			eS		42	10.3	(Z)	
	i				46.9	(Z)			iP	C	06	45	11.6	(Z)
	e		27	26.3	(Z)				iS			33.6	(ZNE)	
	i		29	08.3	(N)				eiP		07	17	16.7	(Z)
	i		55	55.0	(E)		T:00.9 A:18.0		eS			45.8	(ZN)	
18	eP		01	16	47.5	(Z)			eP		09	42	37.9	(Z)
	iS		17	21.9	(ZNE)				iS			55.4	(ZNE)	
	iP	C	03	21	03.3	(Z)			i(P)		11	11	53.6	(Z)
	iS				18.7	(ZE)			iP	C	12	22	38.6	(Z)
	iP	C	03	36	21.7	(Z)			iS		23	19.6	(NE)	
	iS				33.6	(ZNE)			eiP	C	15	00	25.5	(Z)
	iP	C	03	48	42.9	(Z)			iS			51.5	(ZNE)	
	iS				47.4	(ZNE)			iP	C	15	10	07.2	(Z)
	eP		04	36	17.3	(Z)			iS			37.1	(ZE)	
	eP		06	01	43.8	(Z)			eP		18	05	35.9	(Z)
	i		02	14.2	(ZN)				eiP	D	23	07	21.2	(Z)
	i(S)		03	27.6	(Z)				e			33.7	(Z)	
	e(P)		07	33	56.1	(Z)		21	eP		02	08	40.4	(Z)
	e		34	46.1	(Z)				iS			47.9	(ZNE)	
	eP		07	45	15.4	(Z)			iP		02	13	42.3	(Z)
	eS				41.5	(ZNE)								
	eP		10	18	21.1	(Z)			iP	C	02	36	11.2	(Z)
	eiP		11	45	22.4	(Z)			iS			16.5	(ZNE)	
	iP	C	13	14	33.6	(Z)			iP	D	02	48	10.5	(Z)
	i				37.8	(Z)			iS			27.4	(Z)	
	iP	D	15	43	49.9	(Z)			iP	D	04	44	42.9	(Z)
	iS		44	07.3	(ZNE)				i		45	10.3	(Z)	
	eP		20	26	41.1	(Z)			eiP		05	59	35.8	(Z)
19	eP		01	34	00.4	(Z)								
	iP	D	02	38	40.9	(Z)			iP	C	06	11	55.2	(Z)
	iS		39	12.8	(NE)				iS		13	14.8	(NE)	
	iP	D	03	43	05.4	(Z)			eiP	C	06	32	58.2	(Z)
	iS				39.9	(ZE)			e		33	12.6	(Z)	
	eP		09	06	16.7	(Z)			iP	C	06	38	31.6	(Z)
	eP		10	22	06.2	(Z)			iS			46.8	(ZNE)	
	iS				13.7	(ZNE)			iP	C	06	53	32.1	(ZZ')
	e(P)		11	21	02.6	(Z)			i			38.0	(Z)	
	iS		22	18.4	(Z)				i		54	26.1	(Z)	
	iP	C	12	23	51.0	(Z)			i		56	11.8	(E')	
	iS		24	11.6	(ZNE)				i			43.8	(Z')	
	i(P)		15	10	41.5	(Z)			i		59	01.8	(Z'N'E')	
	iS		12	48.5	(ZE)									
	iP	C	16	39	07.5	(Z)			iP	D	12	58	40.6	(Z)
	iS				22.8	(ZNE)			iS			48.6	(ZNE)	
	i(P)	C	17	28	03.4	(Z')			iP	C	13	33	11.6	(Z)
	i(S)		32	37.4	(N'E')				iS		34	11.9	(E)	
	i		41	35.4	(N'E')				e(P)		16	05	27.2	(Z)
	e(L)		55	15.4	(E')				i		06	30.3	(Z)	
									eiP	D	16	54	39.4	(Z)





26 iP C 11 06 17.6 (Z)  
iS 49.1 (ZNE)  
eiP C 13 02 45.6 (Z)  
i 03 01.6 (Z)  
i 04 55.7 (Z)  
iP 15 53 54.5 (Z)  
iS 54 05.7 (ZNE)  
eiP 16 11 03.0 (Z)  
iP C 17 37 34.4 (Z)  
i 39.0 (Z)  
iS 38 47.4 (ZNE)  
iP C 22 06 41.1 (Z)  
27 iP D 01 01 55.3 (Z)  
iS 02 02.0 (ZNE)  
iP D 01 23 18.7 (Z)  
iS 24 00.0 (E)  
eiP 02 39 24.0 (Z)  
iS 59.7 (N)  
eP 04 47 37.1 (Z)  
iS 48.4 (ZNE)  
eP 05 21 55.8 (Z)  
iS 23 23.6 (ZNE)  
eiP D 06 41 19.4 (Z)  
iS 35.6 (N)  
eP 09 31 14.1 (Z)  
e(P) 11 27 16.1 (Z)  
iP D 12 26 38.1 (Z)  
iS 28 08.5 (ZNE)  
iP 16 33 50.4 (Z)  
iS 34 03.8 (N)  
iP D 23 21 03.3 (Z)  
iS 22 39.6 (NE)  
28 eP 00 08 14.0 (Z)  
eP 01 20 16.8 (Z)  
iS 49.8 (Z)  
iP D 01 21 31.8 (Z)  
iS 53.1 (ZNE)  
eiP 01 25 49.5 (Z)  
iS 26 35.8 (N)  
iS 44.0 (Z)  
iP D 06 15 15.7 (Z)  
iS 29.6 (ZNE)  
eP 07 09 07.1 (Z)  
iS 10 10.9 (ZNE)  
iP D 08 04 55.6 (Z)  
iS 05 10.2 (ZNE)  
eP 08 13 27.9 (Z)  
iS 14 39.8 (N)  
iP D 11 24 46.0 (Z)  
i 25 14.0 (Z)  
i(S) 57.1 (E)  
i(S) 26 21.3 (NE)  
iP C 12 20 17.6 (Z)  
iS 35.3 (ZNE)

28 iP D 14 22 56.5 (Z)  
iS 23 19.3 (Z)  
iP C 17 07 45.5 (Z)  
iP 21 34 57.4 (Z)  
iS 35 09.2 (Z)  
29 iP D 02 58 05.2 (Z)  
i 35.4 (Z)  
iS 03 02 44.0 (N'E')  
i 05 20.0 (Z')  
eP 05 21 20.7 (Z)  
iS 37.6 (ZNE)  
iP C 06 48 30.3 (Z)  
i(S) 42.6 (E)  
iP D 08 06 26.9 (Z)  
iS 38.1 (ZNE)  
eiP 08 53 38.6 (Z)  
iP 10 40 06.8 (Z)  
iS 23.0 (ZN)  
eP 10 56 03.1 (Z)  
e 57 46.6 (Z)  
iP D 11 01 00.1 (Z)  
iS 35.0 (N)  
iP D 14 28 00.4 (Z)  
iS 19.6 (ZNE)  
iP C 16 47 57.6 (Z)  
iS 48 11.0 (NE)  
eiP 16 55 49.2 (Z)  
i 53.5 (Z)  
iP D 18 46 54.2 (Z)  
iS 47 53.7 (ZE)  
iP D 19 56 31.9 (Z)  
iS 49.2 (ZNE)  
eP 23 00 32.2 (Z)  
iP D 23 16 05.1 (Z)  
iS 19.7 (E)  
iP C 23 34 53.6 (Z)  
iS 35 16.3 (ZE)  
eiP D 23 43 57.5 (Z)  
iS 44 30.9 (NE)  
30 iP C 00 28 02.4 (Z)  
i(S) 15.5 (Z)  
eP 05 19 58.1 (Z)  
iS 20 21.1 (ZNE)  
iP C 07 49 37.0 (Z)  
iS 50 04.0 (ZNE)  
iP 11 32 42.9 (Z)  
iS 33 33.1 (ZNE)  
eP 17 34 24.1 (Z)  
iS 43.4 (ZNE)  
iP D 18 50 08.0 (Z)  
iS 22.3 (ZNE)  
eP 20 44 31.8 (Z)  
iS 45 26.2 (ZNE)  
eiP 22 12 06.1 (Z)  
iS 13 17.3 (ZNE)  
i 42.2 (Z)

T:01.1 A:05.0

T:12.0 A:06.5





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, 1967

1	iP	D 03 38	20.3 (Z)		2	e(P)	21 16	46.7 (Z)
	iS		33.2 (ZNE)			e(P)	21 47	17.7 (Z)
	eP	08 21	29.6 (Z)			eP	22 20	08.6 (Z)
	eP	08 33	29.4 (Z)			iP	C 22 57	25.3 (Z)
	iS	34	18.4 (N)			iS	58	39.6 (ZNE)
	iP	C 09 25	41.4 (Z)			eP	23 15	02.4 (Z)
	iP	D 14 30	10.7 (Z)		3	iP	D 01 19	52.0 (Z)
	i		34.3 (Z)			iS	20	02.5 (ZN)
	i(S)	32	05.2 (E)			eiP	04 01	57.2 (Z)
	i(S)		59.7 (E)			eP	05 04	36.9 (Z)
	iP	C 16 35	34.0 (Z)			iS	05	34.1 (ZNE)
	iS		49.2 (ZE)			iP	C 05 29	00.4 (ZZ')
	iP	C 18 21	26.7 (Z)			iS		38.1 (N')
	iS		51.4 (ZN)			eP	06 04	40.6 (Z)
	iP	D 20 26	03.2 (Z)			eP	06 45	21.4 (Z)
	iS		18.2 (ZNE)			iS		49.6 (N)
	iP	D 21 39	38.5 (Z)			eP	07 07	13.1 (Z)
	iS	40	02.2 (ZE)			eS		53.6 (N)
	iP	C 23 07	52.8 (Z)			eP	09 21	02.5 (Z)
	iS	08	40.5 (ZNE)			eP	10 22	38.6 (Z)
	eiP	C 23 27	55.1 (Z)			iP	D 11 55	17.4 (Z)
	i	28	03.9 (Z)			iS		32.6 (ZNE)
	i		14.3 (Z')			eiP	D 12 45	29.6 (Z)
	i	34	34.3 (N'E')			i		45.9 (Z)
	i	37	16.3 (N'E')	T:16.0 A:13.5		iS	46	44.3 (ZE)
	i	43	06.3 (Z')	T:22.0 A:18.0		i(S)	47	08.4 (ZE)
2	eP	05 35	07.9 (Z)			eiP	14 43	35.4 (Z)
	iS		49.9 (ZNE)			iS		52.2 (ZE)
	eP	06 03	09.8 (Z)			iP	C 16 40	34.0 (Z)
	iS		23.7 (ZNE)			iS		49.6 (Z)
	eP	07 23	49.1 (Z)			eP	17 20	53.4 (Z)
	i	24	55.6 (Z)			iP	D 20 00	16.2 (Z)
	i	28	43.8 (Z)			iS		31.4 (Z)
	e	49	20.1 (N'E')			eP	21 20	28.6 (Z)
	e(L)	08 13	00.1 (N')			eiP	21 58	38.5 (Z)
	eP	07 48	29.6 (Z)			4	iP	D 00 00
	i	49	09.6 (Z)				i	01
	eP	07 57	53.6 (Z)				eP	01 25
	i	58	07.6 (Z)				eP	05 27
	eiP	D 08 52	17.6 (Z)				iS	28
	i	53	22.6 (Z)				iS	30.6 (N)
	iP	C 11 45	29.4 (Z)				iP	D 08 24
	iS		44.9 (ZNE)				iS	25
	eP	12 52	08.6 (Z)					05.9 (ZNE)
	iS		36.4 (ZNE)				eP	08 27
	iP	D 12 53	40.9 (Z)				i	28
	iS		50.2 (NE)					28.2 (Z)
	eiP	16 35	25.1 (Z)					

4	iP	D 10 28	31.5 (Z)		6	iP	C 10 30	46.2 (Z)	
	iS		42.6 (ZNE)			iS		51.6 (Z)	
	iP	C 14 21	43.0 (ZZ')			eP	12 03	05.4 (Z)	
	i		22 13.5 (Z)			eS		29.1 (Z)	
	i(S)		25 43.5 (Z'N'E')	T:16.0 A:52.5		iP	C 13 55	52.5 (Z)	
	i		32 37.5 (Z')	T:18.0 A:18.5		i		56 00.3 (Z)	
	iP	C 16 29	28.6 (Z)			e	14 07	20.5 (N'E')	
	iS		43.7 (Z)			e	10 27.5	(N'E')	
	eiP	C 18 30	46.7 (Z)			e	16 17.5	(Z'N'E')	
	iS		31 45.8 (ZE)			e(L)	29 47.5	(E')	
	iP	C 21 11	16.1 (Z)			eL	56 01.5	(Z')	
	iS		20.8 (ZNE)			iP	C 14 16	05.6 (Z)	
5	eP	00 01	27.6 (Z)			iS		55.7 (E)	
	i		04 48.0 (Z)			eP	14 36	52.0 (Z)	
	eP	03 38	15.2 (Z)			iS		37 44.5 (NE)	
	iP	D 05 32	22.7 (Z)			eP	18 04	21.1 (Z)	
	iS		27.2 (NE)			eP	18 39	15.2 (Z)	
	iP	D 07 57	02.9 (Z)			i		41 42.2 (Z)	
	iS		19.4 (ZNE)			e		44 52.9 (Z)	
	eP	08 25	02.0 (Z)			e		45 06.4 (N'E')	
	iS		48.3 (N)			iL		54 45.4 (Z')	T:20.0 A:12.0
	eP	08 33	00.5 (Z)			eiP	C 19 27	27.3 (Z)	T:01.0 A:09.5
	iS		23.7 (Z)			e		29 01.3 (ZZ')	
	eP	08 49	47.2 (Z)			e		33 31.3 (N'E')	
	eP	11 55	35.9 (Z)			e		36 45.3 (N'E')	
	eP	12 04	34.6 (Z)			eL		39 05.3 (Z')	
	iS		59.8 (ZN)			iP	C 20 24	14.6 (Z)	
	iP	D 16 50	42.4 (Z)			iS		27.6 (N)	
	iS		57.2 (Z)		7	eP	00 05	14.5 (Z)	
	iP	17 18	46.9 (Z)			i		30.0 (Z)	
	iS		19 33.7 (N)			eP	01 01	14.0 (Z)	
	iP	C 19 08	05.6 (Z)			iS		55.0 (N)	
	iS		14.0 (Z)			iP	C 01 23	43.4 (Z)	
	iP	C 23 20	45.7 (Z)			iS		24 56.0 (ZNE)	
6	eP	00 26	37.5 (Z)			eP	01 26	08.2 (Z)	
	iP	C 00 57	31.2 (Z)			iS		40.5 (ZNE)	
	iS		49.3 (ZNE)			eP	02 43	09.7 (Z)	
	iP	D 01 13	11.6 (Z)			eP	06 36	03.1 (Z)	
	iS		35.1 (ZNE)			eP	06 38	06.3 (Z)	
	iP	02 17	55.9 (Z)			iS		34.5 (E)	
	iS		18 41.7 (ZNE)			eP	07 36	30.2 (Z)	
	eP	02 44	02.4 (Z)			eS		37 09.7 (ZNE)	
	eP	04 13	58.2 (Z)			eP	07 42	41.0 (Z)	
	iS		14 15.4 (ZNE)			e		53.7 (Z)	
	eiP	D 05 30	19.2 (Z)			iP	C 07 47	50.0 (Z)	
	iP	C 07 35	11.2 (Z)			iS		48 16.7 (ZN)	
	iS		31.4 (ZNE)			iP	D 08 25	29.2 (Z)	
	eP	09 02	05.2 (Z)			iS		41.8 (ZNE)	
	iS		39.7 (ZNE)			eP	10 28	47.3 (Z)	
	iP	D 09 33	56.6 (Z)			i(S)		30 28.6 (E)	
	iS		34 25.2 (NE)			eP	18 38	54.7 (Z)	
	iP	C 10 25	25.1 (ZZ')			e		40 46.6 (Z)	
	iS		30.4 (N'E')			eP	20 58	18.8 (Z)	
						iP	C 21 01	50.6 (Z)	
						iS		02 24.1 (ZNE)	



7 eP 22 15 27.7 (Z)  
 iS 16 39.2 (ZE)  
 eP 23 24 11.7 (Z)  
 iS 54.1 (N)  
 8 iP C 00 20 44.7 (Z)  
 iS 21 00.5 (ZN)  
 iP C 01 31 16.3 (Z)  
 iS 21.2 (ZNE)  
 iP D 01 43 36.8 (Z)  
 iS 44 06.9 (ZNE)  
 eP 06 03 32.8 (Z)  
 iS 04 26.5 (E)  
 eP 06 30 47.3 (Z)  
 eS 31 50.6 (N)  
 eiP 06 52 04.6 (Z)  
 eS 21.8 (N)  
 eiP D 09 23 35.9 (Z)  
 iS 50.6 (ZNE)  
 iP D 09 45 07.7 (Z)  
 iS 12.1 (ZE)  
 iP C 10 00 59.2 (Z)  
 iS 01 12.8 (ZNE)  
 eP 10 26 52.7 (Z)  
 i 27 51.2 (Z)  
 eiP C 11 57 02.3 (Z)  
 iS 58 07.4 (E)  
 iP 14 37 45.2 (Z)  
 iS 38 12.2 (ZNE)  
 eiP D 16 07 14.2 (Z)  
 eP 16 54 04.8 (Z)  
 i 27.6 (Z)  
 e 54.3 (Z)  
 iP C 20 09 22.8 (Z)  
 iS 41.8 (ZNE)  
 iP C 22 00 12.3 (Z)  
 iP C 23 01 52.3 (Z)  
 iS 57.9 (ZNE)  
 eP 23 39 05.8 (Z)  
 i 41.5 (Z)  
 e 40 14.2 (Z)  
 eP 23 42 27.9 (Z)  
 iS 43 10.3 (ZNE)  
 eP 23 49 39.8 (Z)  
 eS 50 09.8 (Z)  
 9 eP 01 14 13.0 (Z)  
 iS 15 03.7 (E)  
 eP 03 50 40.0 (Z)  
 iS 51 20.5 (ZNE)  
 eiP 05 09 14.6 (Z)  
 iS 28.1 (ZNE)  
 eP 07 52 08.6 (Z)  
 eP 08 26 08.3 (Z)  
 iS 36.5 (Z)  
 eP 08 41 20.1 (Z)  
 iS 42 00.6 (E)

9 iP D 13 22 24.0 (Z)  
 iS 44.2 (ZNE)  
 iP D 17 17 32.0 (Z)  
 iS 43.2 (ZNE)  
 iP C 18 33 12.2 (ZZ')  
 iS 24.2 (NN'EE')  
 iP D 21 41 02.7 (Z)  
 e 47 34.3 (N'E')  
 e 48 30.3 (Z')  
 eP 22 16 50.9 (Z)  
 iS 17 36.0 (ZN)  
 eiP 23 11 36.6 (Z)  
 eP 23 30 08.3 (Z)  
 e(P) 23 56 20.1 (Z)  
 10 iP D 01 06 23.8 (Z)  
 iS 38.0 (NE)  
 iP C 01 37 14.5 (Z)  
 iS 34.0 (ZNE)  
 eP 02 09 22.4 (Z)  
 eS 49.8 (NE)  
 eiP 05 16 34.1 (Z)  
 iS 44.5 (ZNE)  
 eP 10 08 46.6 (Z)  
 eP 10 37 03.6 (Z)  
 eP 11 16 21.1 (Z)  
 iP C 12 20 58.0 (Z)  
 e 22 41.6 (Z)  
 eP 14 18 12.9 (Z)  
 iP C 16 34 32.2 (Z)  
 iS 48.6 (E)  
 eP 18 04 16.0 (Z)  
 iP C 19 38 38.3 (Z)  
 eP 23 35 07.8 (Z)  
 iS 21.8 (ZNE)  
 11 iP C 02 09 03.3 (Z)  
 iS 21.5 (ZNE)  
 eP 02 14 5.0 (E)  
 iS 15 15.0 (E)  
 eP 04 36 13.7 (Z)  
 iP C 05 39 25.1 (Z)  
 iS 48.1 (N)  
 eP 08 17 46.4 (Z)  
 e 18 30.6 (Z)  
 iP C 14 54 09.0 (Z)  
 iS 55 04.7 (ZNE)  
 iP C 16 32 34.5 (Z)  
 iS 50.4 (ZNE)  
 iP C 17 08 26.1 (Z)  
 iS 36.7 (ZE)  
 iP C 19 28 20.6 (Z)  
 iS 53.0 (ZE)  
 iP C 20 18 18.8 (Z)  
 iS 49.7 (NE)

T:01.0 A:03.2

12 iP D 00 16 14.9 (Z)  
 iS 18.5 (ZNE)  
 iP D 01 18 15.1 (Z)  
 iS 32.0 (ZNE)  
 iP D 02 30 53.1 (Z)  
 iS 31 23.1 (ZEN'E')  
 iP 03 31 24.3 (Z)  
 iS 55.2 (NE)  
 iP C 04 48 57.1 (Z)  
 eP 05 35 21.3 (Z)  
 e(P) 10 23 12.6 (Z)  
 eiP 16 12 49.7 (Z)  
 eP 17 26 28.1 (Z)  
 iS 38.9 (Z)  
 iP C 17 35 50.8 (Z)  
 iS 36 04.2 (ZNE)  
 iP C 20 14 07.2 (Z)  
 iS 23.1 (ZE)  
 iP D 21 05 38.9 (ZZ')  
 i 51.9 (Z)  
 i 06 22.0 (Z)  
 i 10 02.2 (N'E')  
 i(L) 12 56.2 (Z')  
 eiP C 22 01 29.7 (Z)  
 iP C 23 15 55.8 (Z)

13 iP D 00 04 22.7 (Z)  
 iS 05 09.8 (ZNE)  
 iP C 00 42 26.0 (Z)  
 iS 43 38.0 (E)  
 i 44 15.2 (Z)  
 eP 02 09 18.8 (Z)  
 iS 52.9 (ZNE)  
 iP C 02 57 56.6 (Z)  
 iS 58 27.1 (ZNE)  
 eP 04 04 56.3 (Z)  
 iS 05 34.0 (ZNE)  
 eP 05 11 06.0 (Z)  
 iS 10.5 (ZNE)  
 iP D 06 21 38.1 (Z)  
 i 48.6 (Z)  
 i(S) 22 44.0 (E)  
 i(S) 23 10.1 (ZNE)  
 eP 08 22 36.6 (Z)  
 iS 23 04.5 (ZE)  
 eP 10 05 23.4 (Z)  
 iS 28.7 (ZNE)  
 eP 11 40 06.0 (Z)  
 iS 41 06.1 (ZNE)  
 iP D 14 21 32.9 (ZZ')  
 iS 22 12.2 (Z'N'E')  
 iP C 15 15 38.2 (Z)  
 iS 16 00.3 (ZNE)  
 eP 18 42 31.7 (Z)  
 iS 41.0 (ZNE)  
 eiP 21 05 11.6 (Z)

T:01.0 A:20.5

14 iP D 00 19 58.5 (Z)  
 iS 20 09.3 (ZNE)  
 iP D 03 19 50.2 (ZZ')  
 iS 20 08.0 (N'E')  
 iP D 03 33 46.7 (Z)  
 iS 34 03.0 (ZNE)  
 iP D 03 38 12.3 (Z)  
 iS 28.5 (ZNE)  
 iP D 04 07 16.9 (Z)  
 iS 33.1 (ZNE)  
 iP 04 11 40.9 (Z)  
 iS 46.1 (ZNE)  
 eP 04 34 50.6 (Z)  
 iS 35 06.6 (ZNE)  
 eP 05 07 49.6 (Z)  
 iS 09 19.8 (E)  
 eP 06 23 37.6 (Z)  
 iS 24 08.3 (ZNE)  
 iP D 07 02 01.6 (Z)  
 iS 17.3 (ZNE)  
 eiP 07 43 29.0 (Z)  
 eiP C 08 29 17.1 (Z)  
 eP 08 38 43.5 (Z)  
 iS 50.6 (ZNE)  
 eiP C 09 26 15.7 (Z)  
 e 45.1 (Z)  
 eP 10 11 32.3 (Z)  
 e 14 02.1 (Z)  
 iP D 11 40 04.1 (Z)  
 iS 41 16.3 (ZE)  
 iP D 12 40 48.2 (Z)  
 iS 41 04.2 (ZN)  
 iP C 22 45 24.1 (Z)  
 iS 41.3 (ZNE)  
 eP 23 07 41.8 (Z)

15 eiP 02 03 34.8 (Z)  
 iS 04 31.9 (ZN)  
 iP C 02 07 33.9 (Z)  
 iS 38.4 (ZNE)  
 eiP 02 18 45.2 (Z)  
 iS 58.2 (ZNE)  
 iP D 06 11 34.6 (Z)  
 iS 12 14.3 (ZNE)  
 iP D 10 18 25.6 (Z)  
 iS 52.9 (NE)  
 eP 15 01 12.8 (Z)  
 iP D 17 08 32.4 (Z)  
 iS 36.2 (ZNE)  
 iP C 18 51 09.2 (Z)  
 iS 27.2 (ZNE)  
 eP 23 38 28.6 (Z)  
 e 45.3 (Z)  
 e 39 30.8 (Z)

16 iP C 00 45 58.0 (Z)  
 iS 46 20.0 (NE)

T:01.1 A:14.5



16 eiP D 04 23 15.0 (Z)  
 iS 37.0 (N)  
 iP D 06 15 52.9 (Z)  
 iS 16 09.1 (ZNE)  
 iP C 06 47 08.3 (Z)  
 iS 50.6 (ZNE)  
 iP C 07 17 27.2 (Z)  
 iS 34.6 (ZNE)  
 eiP C 07 20 36.1 (Z)  
 iS 22 25.1 (NE)  
 eP 07 33 45.1 (Z)  
 e 34 12.3 (Z)  
 iP D 09 46 14.5 (Z)  
 i 18.7 (Z)  
 i 54.6 (Z)  
 e 49 51.7 (Z)  
 iP C 02 57 24.4 (Z)  
 iS 30.5 (ZNE)  
 iP C 13 54 23.1 (ZZ')  
 i 31.2 (Z)  
 e 14 17 06.2 (N')  
 e(L) 30 36.2 (N')  
 eL 44 50.2 (Z')  
 eL 15 02 38.2 (E')  
 eiP 16 17 03.1 (Z)  
 i 14.0 (Z)  
 iS 21.7 (ZNE)  
 iP D 21 05 05.9 (Z)  
 iS 06 11.2 (NE)  
 17 iP D 03 35 10.0 (Z)  
 iS 24.5 (ZNE)  
 eP 04 04 13.3 (Z)  
 e 24.0 (Z)  
 eP 07 05 16.3 (Z)  
 iS 34.6 (ZNE)  
 eiP 07 30 48.1 (Z)  
 iS 31 04.2 (ZNE)  
 eP 07 54 51.7 (Z)  
 e 55 14.3 (Z)  
 iP D 08 18 20.8 (Z)  
 iS 33.0 (ZNE)  
 eiP D 08 39 57.6 (Z)  
 iS 40 36.7 (ZNE)  
 eP 10 17 33.3 (Z)  
 e 19 08.7 (Z)  
 i 20 07.5 (Z)  
 iP C 12 33 20.1 (Z)  
 iS 36.8 (ZNE)  
 iP C 12 50 38.6 (Z)  
 iP D 13 17 41.1 (Z)  
 iP D 22 00 24.2 (Z)  
 iS 34.0 (ZNE)  
 eP 23 47 29.1 (Z)  
 18 eP 06 49 31.4 (Z)  
 iS 50 21.1 (E)  
 eP 07 40 21.5 (Z)  
 iS 41 19.5 (ZNE)

T:01.0 A:07.0  
 T:01.0 A:14.0

T:01.1 A:17.0

18 eP 07 49 07.7 (Z)  
 e 33.6 (Z)  
 eP 07 59 44.6 (Z)  
 iS 57.7 (ZNE)  
 iP 09 43 05.5 (Z)  
 iS 44 08.3 (ZNE)  
 iP 12 54 23.1 (Z)  
 iP D 14 16 45.7 (Z)  
 iS 17 13.2 (ZN'E')  
 iP D 17 04 59.2 (Z)  
 iP D 19 34 56.2 (Z)  
 iS 35 11.4 (E)  
 iP C 20 22 36.2 (Z)  
 iS 52.2 (E)  
 iP D 23 47 07.6 (Z)  
 iS 27.2 (ZNE)  
 19 iP D 00 03 21.7 (Z)  
 iP D 00 14 03.7 (Z)  
 iS 20.0 (NE)  
 eP 03 57 29.5 (Z)  
 iS 45.2 (ZNE)  
 iP C 04 12 45.6 (Z)  
 iS 13 13.4 (ZNE)  
 eP 07 44 25.3 (Z)  
 e 45 05.6 (Z)  
 iP D 09 12 40.1 (Z)  
 iS 13 51.9 (ZZ'NEE')  
 iP D 12 05 56.1 (Z)  
 iP C 16 33 51.2 (Z)  
 iS 34 06.8 (NE)  
 iP D 21 23 36.9 (Z)  
 iS 51.7 (E)  
 eP 22 53 42.5 (Z)  
 20 eP 01 27 21.5 (Z)  
 eS 55.0 (Z)  
 eiP 01 31 19.4 (Z)  
 iS 32 33.9 (Z)  
 eP 07 08 06.1 (Z)  
 eP 07 17 55.6 (Z)  
 eP 07 33 15.7 (Z)  
 iS 34.1 (NE)  
 iP C 11 51 09.6 (Z)  
 iS 35.9 (NE)  
 eP 12 02 22.6 (Z)  
 e 03 25.7 (Z)  
 iP C 12 08 45.9 (Z)  
 iS 09 21.7 (ZNE)  
 iP 13 14 23.6 (Z)  
 iS 16 33.7 (ZE)  
 eP 15 56 20.7 (ZZ')  
 i 53.5 (Z)  
 e 16 06 50.2 (E')  
 i 10 30.2 (Z')  
 e 19 44.2 (N'E')  
 e(L) 36 24.2 (N')  
 eL 47 00.2 (Z')







29 eP 03 46 28.4 (Z)  
 eS 43.8 (NE)  
 eP 05 38 07.6 (Z)  
 iS 15.3 (ZNE)  
 iF C 05 59 27.9 (Z)  
 iP C 06 59 05.3 (Z)  
 iS 19.0 (ZNE)  
 eP 07 57 03.6 (Z)  
 i 27.3 (Z)  
 i 54.6 (N)  
 eiP D 10 29 16.9 (ZZ')  
 i 21.5 (Z)  
 i 56.6 (Z)  
 i 32 00.1 (Z)  
 i(S) 33 16.1 (N'E') T:26.0 A:184.0  
 iP C 11 11 26.0 (Z)  
 iS 12 02.1 (ZNE)  
 eiP D 11 31 50.5 (Z)  
 iS 32 32.7 (ZE)  
 eP 14 11 35.2 (Z)  
 iP C 16 34 38.7 (Z)  
 iS 35 25.9 (ZNE)  
 eP 21 02 18.3 (Z)  
 30 eP 00 01 35.5 (Z)  
 e 02 16.5 (Z)  
 i 03 01.3 (Z)  
 eiP 00 05 44.5 (Z)  
 i 06 05.7 (Z)  
 i 07 53.4 (Z)  
 i(S) 10 20.0 (N'E')  
 i 12 14.0 (N'E')  
 iP D 02 24 01.2 (Z)  
 iS 30.0 (E)  
 eP 03 56 43.3 (Z)  
 eP 04 01 45.0 (Z)  
 iS 51.7 (ZNE)  
 eiP C 06 29 09.2 (Z)  
 iS 27.5 (NE)  
 eP 07 19 32.1 (Z)  
 eP 07 27 36.9 (Z)  
 iS 28 00.1 (ZNE)  
 iP C 08 28 48.1 (Z)  
 e 36 18.1 (N')  
 e(L) 45 20.1 (N')  
 eP 08 58 53.1 (Z)  
 iP D 10 36 10.9 (Z)  
 iS 28.4 (Z)  
 eP 12 05 14.6 (Z)  
 eP 13 12 09.2 (Z)  
 iS 29.5 (ZNE)  
 iP C 16 18 23.7 (Z)  
 iS 41.0 (ZNE)  
 eP 18 39 44.7 (Z)  
 i 40 09.7 (Z)  
 iP C 18 42 57.2 (Z)  
 iS 43 01.5 (ZNE)

T:26.0 A:184.0

T:01.0 A:04.2

30 iP C 18 57 13.4 (Z)  
 iS 42.7 (N)  
 eP 20 52 46.5 (Z)  
 iS 53 46.8 (ZN)  
 eP 21 30 52.1 (Z)  
 iS 31 08.8 (ZNE)  
 eP 22 00 23.3 (Z)  
 eP 22 30 42.1 (Z)  
 i 31 08.8 (Z)  
 31 eP 00 41 55.0 (Z)  
 iS 42 07.2 (Z)  
 eP 03 00 19.0 (Z)  
 iP D 03 42 03.6 (Z)  
 iS 15.1 (ZNE)  
 iP C 04 31 30.1 (Z)  
 iS 34.4 (ZNE)  
 eP 05 33 45.6 (Z)  
 eP 06 16 55.9 (Z)  
 eP 06 24 28.6 (Z)  
 iP C 07 12 54.3 (Z)  
 iS 13 10.5 (ZNE)  
 eiP D 08 06 17.6 (Z)  
 iP D 08 34 14.0 (Z)  
 iS 26.6 (ZNE)  
 iP 11 57 23.3 (Z)  
 iS 43.9 (ZNE)  
 iP 13 22 05.2 (Z)  
 iS 10.1 (ZNE)  
 eiP 16 37 43.6 (Z)  
 iS 58.7 (ZE)  
 eP 18 18 42.2 (Z)  
 eP 23 37 50.3 (Z)  
 iS 38 06.1 (ZNE)  
 eP 23 45 02.2 (Z)  
 eP 23 55 02.7 (Z)

C: compresión

D: dilatación

Universidad Nacional de San Agustín  
 Instituto Geofísico  
 Sección de Sismología  
 Casilla 23  
 Arequipa, Perú



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

AGOSTO, 1967

1 eiP	C 01 15 12.7 (Z)	2 iP	C 03 14 09.1 (Z)
i	17.3 (Z)	iS	25.5 (ZNE)
iS	16 18.8 (ZZ'N'E')	eP	04 08 07.6 (Z)
eP	02 37 58.0 (Z)	iS	33.6 (N)
eP	03 31 01.2 (Z)	eiP	06 23 04.1 (Z)
iS	18.8 (ZNE)	e	24 38.1 (Z)
eP	03 49 44.5 (Z)	e	11 38 12.1 (N')
iP	C 05 36 36.8 (Z)	e(L)	47 46.1 (E')
eiP	D 06 09 15.6 (Z)	eL	52 40.1 (Z')
iS	49.1 (ZNE)	eiP	11 55 20.4 (Z)
eP	07 21 44.4 (Z)	iS	35.9 (ZNE)
eP	07 28 55.6 (Z)	iP	D 16 38 20.9 (Z)
e	29 13.6 (Z)	iS	34.1 (NE)
e(P)	09 24 34.6 (Z)	eP	17 07 56.1 (Z)
e(L)	48 36.1 (Z'N')	eP	17 14 29.9 (Z)
iP	D 10 59 12.6 (Z)	iS	15 37.6 (ZN)
iS	50.1 (NE)	eP	17 18 14.2 (Z)
eP	12 01 16.7 (Z)	iS	36.2 (ZNE)
i	03 00.6 (Z)	eP	19 21 24.5 (Z)
eP	13 12 16.7 (Z)	eiP	19 57 35.9 (Z)
eP	16 52 32.5 (Z)	iS	58 36.1 (NE)
e	53 08.7 (Z)	eiP	22 42 40.8 (Z)
e	54 04.2 (Z)	iS	43 49.3 (ZE)
eP	17 55 42.9 (Z)	3 eP	01 40 11.7 (Z)
e	59 07.2 (Z)	eP	02 09 45.0 (Z)
e	18 00 07.5 (Z)	iP	C 02 13 28.5 (Z)
iP	D 18 26 20.8 (Z)	i	14 21.8 (Z)
iS	32.5 (ZNE)	eP	02 21 43.8 (Z)
eP	19 09 35.6 (Z)	iS	22 14.0 (N)
e	10 04.7 (Z)	eiP	03 52 21.3 (Z)
eP	20 43 50.2 (Z)	iS	58.3 (ZE)
e	44 21.7 (Z)	iP	D 05 37 52.3 (Z)
e	45 11.2 (Z)	iS	38 08.8 (NE)
iP	C 22 46 10.8 (Z)	eiP	08 33 12.1 (Z)
iS	47 32.3 (ZNE)	eiP	10 12 12.0 (Z)
e(P)	23 25 00.5 (Z)	iS	27.4 (ZNE)
iP	C 23 44 26.3 (Z)	iP	C 10 19 08.0 (Z)
iS	36.7 (ZNE)	iS	38.5 (E)
2 eP	00 01 47.5 (Z)	eP	11 19 14.8 (Z)
iS	02 21.4 (ZNE)	iP	C 12 41 23.7 (Z)
iP	C 01 45 13.5 (Z)	iS	42 07.0 (Z'N'E')
eP	02 06 13.7 (Z)	i(S)	16.2 (Z'N'E')
iS	32.8 (ZE)	eiP	14 56 31.2 (Z)
eP	03 11 23.5 (Z)	iS	57 17.3 (ZNE)
iS	12 36.7 (NE)	eP	16 31 23.0 (Z)
		iS	39.5 (E)

3 iP D 19 52 16.4 (Z)  
 iS 32.6 (ZNE)  
 eP 21 40 27.5 (Z)  
 iS 31.6 (ZNE)  
 iP D 23 38 47.7 (Z)  
 iS 39 01.0 (N)  
 4 iP C 00 46 45.5 (Z)  
 iS 47 42.6 (ZNE)  
 iP C 01 26 08.7 (Z)  
 iS 44.8 (ZN)  
 eP 02 09 05.2 (Z)  
 eS 19.4 (ZNE)  
 iP C 03 06 13.7 (Z)  
 iS 44.5 (E)  
 iP C 04 03 09.9 (Z)  
 eiP 06 09 00.1 (Z)  
 i 10 31.6 (Z)  
 e 17 46.1 (E')  
 e(L) 21 04.1 (Z')  
 eP 08 20 03.9 (Z)  
 iS 26.1 (ZNE)  
 iP C 09 30 55.8 (Z)  
 iS 31 12.1 (N)  
 eP 10 12 09.8 (Z)  
 iP C 12 05 32.0 (Z)  
 iS 37.1 (ZNE)  
 eP 16 37 18.9 (Z)  
 eiP 18 51 09.5 (Z)  
 5 iP C 05 20 07.1 (Z)  
 iS 21 02.9 (N)  
 eP 06 00 25.1 (Z)  
 iP D 06 08 21.6 (Z)  
 iS 29.4 (ZNE)  
 iP D 06 21 08.7 (Z)  
 iS 12.9 (ZNE)  
 iP C 08 41 09.4 (Z)  
 iS 42 05.2 (ZNE)  
 eiP C 09 26 40.3 (Z)  
 iS 27 45.6 (ZNE)  
 eP 09 51 23.5 (Z)  
 iS 37.1 (NE)  
 eiP 14 49 22.2 (Z)  
 iP D 16 36 43.2 (Z)  
 iS 37 00.8 (NE)  
 eP 17 26 22.2 (Z)  
 iS 25.9 (Z)  
 e(L) 27 08.5 (Z)  
 iS 15.4 (ZNE)  
 eP 18 37 59.6 (Z)  
 eS 38 50.2 (ZE)  
 iP C 22 30 39.3 (Z)  
 iS 42.8 (ZNE)  
 6 iP 00 28 20.7 (Z)  
 iS 35.8 (ZNE)

T:00.7 A:04.5  
T:00.9 A:03.6

6 eiP C 02 47 09.5 (Z)  
 iS 24.3 (ZNE)  
 iP 05 01 44.7 (Z)  
 iS 02 13.6 (ZNE)  
 eP 05 58 05.4 (Z)  
 eS 29.3 (ZNE)  
 iP D 06 27 56.5 (Z)  
 iS 28 07.3 (ZNE)  
 iP 06 34 36.4 (Z)  
 iS 58.6 (NE)  
 eP 07 17 05.1 (Z)  
 e 42.9 (Z)  
 iP C 08 07 59.6 (Z)  
 iS 08 29.7 (ZNE)  
 iP 10 16 43.6 (Z)  
 iS 49.7 (ZNE)  
 eP 10 42 40.1 (Z)  
 eP 12 15 30.4 (Z)  
 e 17 02.7 (Z)  
 iP D 13 35 32.4 (Z)  
 iS 36 47.3 (NE)  
 eiP C 15 42 09.3 (Z)  
 iP C 16 34 29.4 (Z)  
 iS 47.5 (ZNE)  
 iP D 19 33 10.6 (Z)  
 iS 34 02.2 (NE)  
 eiP 19 56 16.5 (Z)  
 iS 33.0 (ZNE)  
 eP 21 38 47.8 (Z)  
 iS 39 02.3 (ZNE)  
 eP 22 43 44.7 (Z)  
 7 eP 00 04 24.3 (Z)  
 eiP 02 05 20.8 (Z)  
 eP 03 11 31.4 (Z)  
 iS 50.3 (ZNE)  
 eP 06 26 31.6 (Z)  
 iS 27 06.9 (E)  
 eP 06 51 04.9 (Z)  
 eP 08 04 14.7 (Z)  
 eiP D 09 05 55.4 (Z)  
 i(S) 06 12.6 (N)  
 eP 09 59 22.1 (Z)  
 eP 12 47 25.5 (Z)  
 eS 58.8 (ZE)  
 iP C 15 20 07.7 (Z)  
 iS 35.2 (Z)  
 8 eP 01 00 37.5 (Z)  
 eP 03 46 59.6 (Z)  
 eS 47 12.1 (Z)  
 eP 07 43 06.6 (Z)  
 e 44 07.8 (N)  
 eP 09 38 21.6 (Z)  
 iS 30.1 (Z)



8 eP 11 07 34.5 (Z)  
 iP D 11 49 06.8 (Z)  
 iS 10.8 (ZNE)  
 iP C 13 20 24.2 (Z)  
 iS 41.3 (ZNE)  
 iP D 13 23 56.7 (Z)  
 iS 24 12.3 (ZNE)  
 iP D 14 39 45.7 (Z)  
 iS 57.7 (ZNE)  
 eP 14 43 36.0 (Z)  
 iP D 16 35 59.2 (Z)  
 iS 36 14.0 (NE)  
 iP C 18 14 44.3 (Z)  
 iS 15 50.9 (ZNE)  
 eP 18 35 50.5 (Z)  
 e 36 21.2 (Z)  
 iP C 22 22 40.8 (Z)  
 iS 23 18.0 (ZNE)  
 iP D 22 49 52.3 (Z)  
 iS 50 11.1 (ZNE)  
 9 eP 00 04 06.0 (Z)  
 iS 19.4 (ZNE)  
 eiP 01 55 03.7 (Z)  
 iS 24.0 (Z)  
 eP 02 39 09.5 (Z)  
 iP C 03 33 38.6 (Z)  
 iS 34 06.7 (N)  
 eP 03 39 24.3 (Z)  
 iS 58.2 (N)  
 eiP D 07 16 08.1 (Z)  
 i 17 00.3 (Z)  
 i 18 16.8 (Z)  
 i 42.9 (N'E')  
 i 19 18.1 (Z')  
 eP 07 22 29.9 (Z)  
 eP 07 47 21.6 (Z)  
 iS 33.4 (ZNE)  
 iP C 08 39 43.6 (Z)  
 i 40 20.6 (Z)  
 e 42 32.1 (Z)  
 e 43 10.9 (Z)  
 e(P) 08 49 44.6 (Z)  
 eP 10 09 48.6 (Z)  
 iS 10 16.3 (E)  
 eP 10 34 38.1 (Z)  
 eP 12 02 42.8 (Z)  
 eiP 12 31 02.4 (Z)  
 iS 49.1 (N)  
 eP 12 40 12.2 (Z)  
 eP 13 35 43.8 (Z)  
 iP D 23 18 19.1 (Z)  
 iS 39.3 (ZNE)  
 10 eP 01 45 52.0 (Z)  
 iS 46 58.2 (NE)

T:01.0 A:03.5

10 eP 02 55 40.5 (Z)  
 eP 04 26 29.4 (Z)  
 e 28 13.6 (Z)  
 e 33 36.1 (E')  
 e 34 04.1 (Z')  
 eP 06 29 48.1 (Z)  
 iP C 06 52 20.6 (Z)  
 iS 54 09.1 (ZNE)  
 iP C 09 39 57.6 (Z)  
 iS 40 26.0 (ZNE)  
 eP 09 44 07.3 (Z)  
 eP 09 45 00.6 (Z)  
 iS 36.3 (ZN)  
 eP 10 05 15.6 (Z)  
 eP 10 09 11.1 (Z)  
 eP 11 40 40.5 (Z)  
 e 43 38.5 (Z)  
 iP C 12 20 47.5 (Z)  
 iS 21 04.1 (ZE)  
 iP D 13 36 02.5 (Z)  
 iP C 16 47 00.2 (Z)  
 iS 15.9 (E)  
 eP 19 37 25.2 (Z)  
 e 47.8 (Z)  
 eP 19 57 52.4 (Z)  
 e(S) 20 00 00.4 (ZE)  
 iP D 20 00 49.9 (Z)  
 iS 01 54.9 (E)  
 e(P) 21 08 19.3 (Z)  
 11 eP 00 37 09.0 (Z)  
 e 39 45.0 (Z)  
 eP 01 06 11.9 (Z)  
 e 07 21.5 (Z)  
 eP 01 10 16.3 (Z)  
 e 11 30.7 (Z)  
 iP D 04 49 02.0 (Z)  
 iS 30.5 (ZNE)  
 eP 04 54 42.6 (Z)  
 eS 55 51.8 (Z)  
 eP 05 30 27.9 (Z)  
 eiP 06 26 06.1 (Z)  
 eP 07 28 08.8 (Z)  
 eP 07 50 08.9 (Z)  
 iS 35.6 (ZNE)  
 eP 10 01 33.6 (Z)  
 eP 11 28 08.3 (Z)  
 iS 30.6 (N)  
 eP 12 22 12.4 (Z)  
 eS 41.2 (Z)  
 iP D 14 14 31.0 (Z)  
 iS 15 15.5 (Z)  
 iP C 15 10 32.9 (Z)  
 iS 11 30.2 (ZNE)

T:01.2 A:04.0





14 eP 16 39 00.6 (Z)  
 iS 25.7 (ZNE)  
 eP 17 41 40.8 (Z)  
 e(P) 17 57 07.0 (Z)  
 iP D 21 24 56.7 (Z)  
 iS 25 09.0 (ZNE)  
 eP 21 51 44.0 (Z)  
 15 eP 00 14 20.5 (Z)  
 iS 37.7 (ZNE)  
 eP 04 11 49.0 (Z)  
 iS 12 49.5 (ZNE)  
 eP 04 29 20.9 (Z)  
 iS 40.1 (ZNE)  
 eP 08 17 38.5 (Z)  
 iS 18 16.6 (E)  
 eiP 08 54 44.3 (Z)  
 iS 56 06.5 (ZNE)  
 iP C 09 41 44.8 (Z)  
 eiP C 11 21 32.3 (Z)  
 e 23 50.3 (ZN)  
 iP C 15 55 43.2 (Z)  
 iP D 16 16 56.8 (Z)  
 iS 17 59.4 (ZN)  
 iP C 16 35 06.9 (Z)  
 iS 21.2 (N)  
 eiP 21 26 14.2 (Z)  
 iS 27 05.8 (E)  
 16 iP C 00 06 18.5 (Z)  
 iS 45.2 (ZNE)  
 iP C 02 38 19.8 (Z)  
 iS 39 15.2 (ZNE)  
 eP 05 15 08.9 (Z)  
 eP 08 25 05.1 (Z)  
 iS 19.1 (ZNE)  
 eP 08 40 52.6 (Z)  
 e(S) 41 31.6 (ZN)  
 iP D 13 40 08.2 (Z)  
 i(S) 11.3 (Z)  
 iP C 17 17 41.2 (Z)  
 iS 18 36.2 (ZNE)  
 iP C 17 51 55.2 (Z)  
 eP 19 39 21.9 (Z)  
 e 43 15.4 (N'E')  
 iP C 20 37 18.0 (Z)  
 iS 34.2 (ZNE)  
 iP D 23 24 55.4 (Z)  
 iS 25 16.6 (ZNE)  
 17 eP 02 10 58.9 (Z)  
 iS 11 36.2 (ZNE)  
 eP 04 46 42.6 (Z)  
 iS 47 46.6 (E)  
 eP 04 59 39.7 (Z)  
 iS 05 00 09.0 (ZNE)

T:00.8 A:03.6

T:00.8 A:12.0

17 eP 06 13 44.4 (Z)  
 iS 50.1 (ZNE)  
 iP C 08 26 29.1 (Z)  
 iS 54.4 (N)  
 eP 08 50 42.1 (Z)  
 e 52 31.1 (Z)  
 e 54 03.9 (Z)  
 eP 10 10 32.1 (Z)  
 iS 11 33.3 (E)  
 eP 12 58 17.1 (Z)  
 eiP 16 41 52.2 (Z)  
 iS 42 07.7 (Z)  
 iP D 18 43 15.7 (Z)  
 iS 32.9 (ZNE)  
 eP 18 54 39.7 (Z)  
 eS 55 38.4 (ZN)  
 eP 20 37 34.9 (Z)  
 iS 50.0 (ZNE)  
 eP 22 45 23.6 (Z)  
 iP C 23 21 40.8 (Z)  
 i 50.8 (Z)  
 i(S) 22 50.3 (ZNE)  
 18 eP 02 20 06.0 (Z)  
 iS 21.3 (ZN)  
 eP 03 10 05.9 (Z)  
 iS 40.9 (E)  
 eP 03 55 32.3 (Z)  
 eP 06 37 35.8 (Z)  
 iP C 07 20 48.3 (Z)  
 i 21 05.0 (Z)  
 iP C 10 50 40.5 (Z)  
 iS 54.3 (ZNE)  
 eP 15 57 49.6 (Z)  
 iS 59 31.7 (NE)  
 iP D 16 45 53.0 (Z)  
 iS 46 13.9 (ZN)  
 eP 20 32 34.7 (Z)  
 i 34 13.9 (Z)  
 i 35 09.7 (Z)  
 iP C 21 26 56.3 (Z)  
 iS 28 15.8 (ZNE)  
 iP C 22 58 40.3 (Z)  
 iS 59 02.1 (ZNE)  
 eiP 23 17 17.0 (Z)  
 iS 55.8 (ZE)  
 19 iP D 00 52 58.3 (Z)  
 iS 54 11.8 (ZNE)  
 eP 03 41 23.8 (Z)  
 iS 29.9 (ZNE)  
 eP 04 24 23.1 (Z)  
 i 25 30.6 (E)  
 eP 05 28 54.9 (Z)  
 iS 30 00.6 (ZNE)  
 eP 07 08 02.9 (Z)  
 e 52.9 (Z)

19 eP 07 33 28.6 (Z)  
 iP D 08 34 28.3 (Z)  
 iS 44.1 (ZNE)  
 eiP 09 22 34.1 (Z)  
 iP 0 11 39 14.6 (Z)  
 iS 40 22.4 (ZNE)  
 iP 11 57 36.1 (Z)  
 i 58 15.3 (Z)  
 eiP 12 43 58.2 (Z)  
 iS 44 28.7 (ZNE)  
 iP 0 13 44 57.9 (Z)  
 iS 45 28.0 (ZE)  
 iP D 15 48 08.0 (ZZ')  
 i 38.4 (Z)  
 e 16 03 18.2 (E')  
 e 06 10.2 (Z')  
 e(L) 13 50.2 (E')  
 eL 43 08.2 (Z')  
 iP 0 16 34 14.1 (Z)  
 iS 29.3 (E)  
 iP 0 22 13 35.3 (Z)  
 iS 14 58.3 (ZNE)  
 eP 23 40 51.7 (Z)  
 e 41 16.3 (Z)

20 iP 0 00 25 33.2 (Z)  
 i(S) 47.5 (N)  
 iP D 00 53 45.2 (Z)  
 e 54 09.5 (Z)  
 iP D 02 21 39.2 (Z)  
 eP 05 49 00.6 (Z)  
 eP 09 13 55.6 (Z)  
 iP D 12 17 03.6 (Z)  
 iS 22.8 (ZNE)  
 iP D 15 05 40.6 (Z)  
 i 55.4 (ZNE)  
 iS 07 16.6 (ZNE)  
 eiP 20 05 27.6 (Z)  
 e 11 14.2 (N'E')  
 e 13 50.2 (Z'N')  
 e 15 14.2 (Z'E')

21 eP 05 13 26.7 (Z)  
 iS 14 22.6 (ZNE)  
 eiP 05 28 00.1 (Z)  
 iS 34.6 (ZNE)  
 eP 05 37 38.3 (Z)  
 eiP 0 05 40 08.7 (Z)  
 iP D 06 14 14.0 (Z)  
 iS 37.6 (NE)  
 eP 06 16 29.1 (Z)  
 iS 49.6 (NE)  
 eP 07 53 04.6 (ZZ')  
 i 54 04.8 (ZZ')  
 i 57 31.3 (Z'N'E')

T:01.0 A:03.3

T:01.0 A:03.0

T:20.0 A:23.5

T:00.8 A:02.2

21 e 08 04 14.1 (Z'N'E')  
 i 07 44.9 (Z')  
 i 11 12.3 (Z'N'E')  
 e(L) 18 26.1 (Z'N'E')  
 iL 55 10.1 (Z') T:24.0 A:69.0  
 eiP 0 10 39 31.6 (Z)  
 iS 40 28.9 (ZNE)  
 eP 15 53 35.2 (Z)  
 i 54 11.7 (Z)  
 eP 18 37 48.9 (Z)  
 iS 38 10.6 (ZN)  
 i(P) 21 02 07.3 (Z)  
 iP D 21 41 57.4 (Z)  
 iS 42 10.9 (ZNE)  
 eP 22 39 47.0 (Z)  
 iS 40 15.5 (N)

22 iP 0 01 47 55.6 (Z)  
 iS 48 38.7 (ZN)  
 eP 02 19 59.0 (Z)  
 iS 21 35.4 (ZNE)  
 iP 0 06 12 35.4 (Z)  
 iS 47.6 (ZNE)  
 eiP 07 44 54.4 (Z)  
 i(S) 46 21.4 (Z)  
 i(S) 35.5 (ZNE)  
 iP 0 08 56 43.6 (ZZ')  
 iS 57 20.1 (E')  
 eP 10 01 09.1 (Z)  
 i 15.9 (Z)  
 iS 02 29.0 (ZNE')  
 eP 10 28 41.5 (Z)  
 i 53.1 (Z)  
 iS 29 18.3 (Z)  
 eP 10 52 27.3 (Z)  
 iS 53 22.7 (E)  
 eP 11 49 13.1 (Z)  
 iS 50 00.1 (ZN)

iP 0 13 11 40.2 (ZZ') T:01.0 A:34.5  
 i 13 50.2 (N')  
 iS 19 20.1 (Z'N'E')  
 i 23 32.2 (Z')  
 i(L) 25 34.2 (E')  
 iP D 13 26 43.1 (Z)  
 eP 16 13 00.2 (Z)  
 iP 0 16 43 35.6 (Z)  
 iS 44 11.7 (NE)  
 iP 0 17 24 18.7 (Z)  
 23 iP 00 10 15.8 (Z)  
 i(S) 54.3 (ZNEE')  
 i(S) 11 08.7 (ZNZ')  
 eP 01 08 38.6 (Z)  
 iS 09 38.8 (ZNE)  
 iP 0 02 20 01.3 (Z)  
 iS 38.0 (ZNE)  
 iP 0 02 41 12.6 (Z)  
 iS 45.5 (ZNE')



23 eP b2 53 55.3 (Z)  
 iS 55 50.4 (E)  
 eP 04 03 47.5 (Z)  
 iS 04 28.2 (NE)  
 iP C 04 16 08.0 (Z)  
 iS 50.9 (NE)  
 eP 05 06 58.6 (Z)  
 iS 07 15.9 (ZNE)  
 eP 05 48 55.6 (Z)  
 iS 49 33.5 (NE)  
 eP 06 05 45.1 (Z)  
 iS 06 00.9 (ZNE)  
 eiP C 07 17 43.4 (Z)  
 iS 18 11.0 (ZNE)  
 eP 07 35 14.6 (Z)  
 eP 07 56 33.6 (Z)  
 iP D 08 20 45.4 (Z)  
 iS 21 16.7 (ZNE)  
 eP 08 42 11.8 (Z)  
 iS 43 03.1 (ZE)  
 iP D 09 25 38.6 (ZZ')  
 i 44.1 (Z)  
 e 28 46.0 (N'E')  
 i 30 06.1 (N'E')  
 eP 13 35 20.2 (Z)  
 e 36 09.7 (Z)  
 iP 14 26 14.7 (Z)  
 eP 16 10 04.3 (Z)  
 iP C 16 33 31.4 (Z)  
 iS 47.0 (E)  
 eP 17 15 45.7 (Z)  
 iS 16 21.2 (ZNE)  
 iP C 21 35 14.7 (Z)  
 eP 22 46 53.5 (Z)  
 iS 48 14.8 (ZNE)  
 24 eP 01 02 27.0 (Z)  
 i 03 11.1 (NE)  
 eP 01 20 57.5 (Z)  
 iS 22 33.5 (ZNE)  
 eP 03 55 12.5 (Z)  
 eP 06 45 12.4 (Z)  
 eiP 09 04 22.9 (Z)  
 iS 44.0 (ZNE)  
 eP 09 08 45.4 (Z)  
 eP 11 55 15.7 (Z)  
 e 34.6 (Z)  
 iP D 13 08 44.9 (Z)  
 iS 09 23.0 (ZN)  
 iP 14 23 55.2 (Z)  
 iS 24 12.1 (ZNE)  
 iP D 15 13 43.7 (Z)  
 iS 14 15.7 (E)  
 eP 16 35 27.4 (Z)  
 iS 45.5 (N)

T:01.1 A:03.5  
 T:01.1 A:09.0

24 iP C 17 33 16.2 (Z)  
 e 34 02.2 (Z)  
 eP 19 32 11.2 (Z)  
 eP 21 30 28.3 (Z)  
 iS 36.7 (ZNE)  
 25 iP D 01 35 58.0 (Z)  
 iS 36 17.7 (ZNE)  
 eP 02 13 23.0 (Z)  
 iS 42.2 (NE)  
 eP 03 37 54.7 (Z)  
 iS 39 01.5 (ZN)  
 eP 03 55 18.7 (Z)  
 eiP D 04 41 40.9 (Z)  
 iS 42 06.3 (ZNE)  
 eP 07 01 06.9 (Z)  
 iP C 07 41 31.1 (Z)  
 iS 42 13.8 (NE)  
 eP 08 30 41.6 (Z)  
 iS 31 20.1 (ZN)  
 eP 08 55 58.9 (Z)  
 eS 56 27.7 (N)  
 eP 09 06 52.6 (Z)  
 iS 07 58.4 (ZNE)  
 eP 09 54 57.8 (Z)  
 iP D 10 01 48.6 (Z)  
 iS 02 03.9 (ZNE)  
 eP 11 13 28.4 (Z)  
 iS 39.6 (ZNE)  
 eP 13 38 58.1 (Z)  
 iP 14 31 13.2 (Z)  
 iS 29.7 (ZNE)  
 iP C 20 09 40.9 (Z)  
 iS 10 30.4 (ZNE)  
 eP 23 14 05.3 (Z)  
 eP 23 18 34.7 (Z)  
 eP 23 35 51.8 (Z)  
 26 iP D 00 56 25.7 (ZZ')  
 i 29.0 (Z)  
 i 57 26.4 (Z)  
 i 58 14.0 (Z')  
 e 01 19 20.0 (N'E')  
 e 38 18.0 (N'E')  
 e(P) 01 06 13.0 (Z)  
 iS 07 30.1 (ZNE)  
 eP 01 13 04.0 (Z)  
 iP D 02 08 14.0 (Z)  
 iS 28.0 (ZNE)  
 iP D 02 26 56.3 (Z)  
 iP D 03 00 36.5 (Z)  
 iS 42.0 (ZNE)  
 eP 03 49 46.0 (Z)  
 eP 05 45 04.1 (Z)  
 eP 05 50 19.1 (Z)  
 eP 06 06 37.1 (Z)

T:01.0 A:06.2

T:01.5 A:06.0  
 T:01.7 A:16.5

26	eP	11 12	08.1 (Z)	29	eiP	C 04 51	25.6 (Z)	T:01.0 A:04.0
	i(S)		41.8 (N)		e		42.8 (Z)	
	eP	11 58	04.6 (Z)		e(P)	05 28	22.6 (Z)	
	iP	13 31	02.1 (Z)		e	30	36.5 (Z)	
	iS		15.8 (Z'N'E')		eP	07 12	39.1 (Z)	
	iP	C 16 41	06.5 (Z)		iS	13	39.9 (ZNE)	
	iS		21.7 (NE)		eP	07 47	40.1 (Z)	
	iP	D 18 48	25.2 (Z)		i	48	28.6 (Z)	
	iS		36.0 (ZNE)		e	08 11	14.1 (N')	
	eP	22 45	38.8 (Z)		e(L)	39	40.1 (N')	
	eP	23 35	16.1 (Z)		eiP	13 50	40.7 (Z)	
	iS		51.8 (NE)		iP	D 16 45	53.5 (Z)	
27	eP	00 22	19.4 (Z)		iS	46	28.7 (ZNE)	
	iS		45.7 (ZNE)		eP	18 26	13.2 (Z)	
	eP	03 39	23.1 (Z)		eS		40.5 (Z)	
	iS		39.0 (ZNE)		eiP	18 39	12.2 (Z)	
	eP	06 47	49.6 (Z)		iP	C 20 18	37.8 (Z)	
	eP	07 36	27.1 (Z)		iS		57.9 (ZNE)	
	iS	37	33.8 (ZNE)		eP	23 24	42.8 (Z)	
	eP	10 00	14.1 (Z)	30	iP	D 00 34	39.8 (Z)	
	iS		22.6 (ZNE)		iS	35	41.4 (NE)	
	iP	C 13 15	07.7 (ZZ')		eiP	00 53	41.2 (Z)	
	i	20	10.9 (E')		iS	54	12.2 (ZNE)	
	i	22	27.3 (Z')		eP	02 25	48.5 (Z)	
	eiP	13 21	20.8 (Z)		eP	04 25	04.5 (Z)	
	iP	C 13 57	20.6 (Z)		iS		20.0 (ZNE)	
	iS		50.9 (ZNE)		eP	04 35	07.3 (Z)	
	eiP	14 10	10.9 (Z)		eiP	D 04 42	10.1 (Z)	T:02.5 A:09.0
	iS		39.1 (ZN)		i	46	40.1 (Z')	T:12.0 A:20.5
	eP	14 37	15.9 (Z)		i	54	16.1 (Z'N')	
	eP	19 38	31.5 (Z)		i	05 00	14.1 (N'E')	
	iS	39	05.6 (ZNE)		i	07	16.1 (Z'N'E')	
28	iP	D 00 58	36.7 (Z)		i	14	10.1 (N'E')	
	iS	01 00	01.0 (NE)		i(L)	40	02.1 (Z')	
	eP	01 46	27.0 (Z)		iL	48	42.1 (Z')	T:32.0 A:62.0
	iS	47	01.5 (N)		eiP	05 02	38.6 (Z)	
	eP	05 24	39.1 (Z)		iS	04	03.2 (ZNE)	
	iS		52.7 (N)		eP	06 14	45.1 (Z)	
	eiP	05 40	43.1 (Z)		e	15	22.6 (Z)	
	iS	41	04.6 (ZNE)		eP	06 54	57.6 (Z)	
	iP	D 06 36	05.1 (Z)		eP	07 22	55.1 (Z)	
	iS		14.6 (ZNN'E)		eP	08 14	59.1 (Z)	
	eP	09 45	50.3 (Z)		iS	15	20.6 (ZNE)	
	eP	10 02	58.9 (Z)		eP	08 29	13.6 (Z)	
	iS	03	21.3 (ZNE)		eP	10 41	49.5 (Z)	
	eP	10 28	54.9 (Z)		iS	42	38.6 (E)	
	iS		59.6 (E)		iP	D 16 36	49.2 (Z)	
	iP	C 20 41	24.2 (Z)		iS	37	04.4 (ZN)	
	iS		39.3 (ZNE)		iP	C 17 17	09.7 (Z)	
	eP	23 08	42.3 (Z)		iS		23.7 (ZNE)	
	eP	23 24	23.5 (Z)		iP	C 17 30	24.9 (Z)	
29	iP	C 00 23	26.1 (Z)		iS	32	13.7 (ZNE)	
	iS		53.4 (NE)		iP	17 50	07.2 (Z)	
	eP	03 59	43.0 (Z)		iS		21.2 (ZNE)	



30 iP C 17 38 18.2 (Z)  
iS 32.3 (ZNE)  
eP 19 26 22.7 (Z)  
iS 43.2 (ZNE)  
eP 23 54 06.8 (Z)  
31 iP D 00 47 24.1 (Z)  
iS 42.4 (ZNE)  
eiP 01 09 35.0 (Z)  
iS 10 17.0 (ZN)  
eP 01 16 06.0 (Z)  
i 10.1 (Z)  
iS 49.5 (Z)  
iS 51.8 (NE)  
eP 02 05 21.7 (Z)  
iP C 03 25 03.1 (Z)  
iS 07.8 (ZNE)  
iP C 05 37 40.5 (Z)  
iS 38 10.6 (ZNE)  
eP 06 43 00.1 (Z)  
e 47.6 (Z)  
i 44 11.6 (Z)  
eP 09 43 06.1 (Z)  
i 34.1 (Z)  
eiP 10 01 33.7 (Z)  
iS 02 07.1 (ZNE)  
eP 12 40 29.7 (Z)  
iS 42 06.4 (ZNE)  
iP C 14 08 54.4 (Z)  
i 10 45.6 (Z)  
iP C 16 37 05.2 (Z)  
iS 24.2 (Z)  
iP D 18 53 55.6 (Z)  
iS 54 17.8 (ZN)

T:01.0 A:08.0

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C: compresión  
D: dilatación

Universidad Nacional de San Agustín  
Instituto Geofísico  
Sección de Sismología  
Casilla 23  
Arequipa, Perú

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

SETIEMBRE, 1967

1 eP	01 09 12.3 (Z)	2 iP	D 21 00 31.7 (Z)	
i	14.0 (Z)	eiP	21 19 28.4 (Z)	
iS	10 11.0 (ZNE)	eP	23 01 39.0 (Z)	
eP	03 50 05.1 (Z)	3 iP	D 00 41 01.5 (Z)	
iP	D 03 51 25.1 (Z)	iS	42 14.0 (NE)	
iS	37.9 (NE)	eP	04 19 11.5 (Z)	
iP	D 03 53 30.9 (Z)	iS	56.8 (NE)	
iP	D 04 01 05.7 (Z)	iP	D 04 27 48.6 (Z)	
iS	26.6 (ZNE)	iS	28 37.9 (ZNE)	
eP	05 44 08.1 (Z)	eP	04 31 01.1 (Z)	
eP	05 46 41.2 (Z)	iS	32 05.6 (ZNE)	
eS	47 48.1 (ZNE)	eP	06 48 46.6 (Z)	
eP	06 21 24.1 (Z)	e	57 40.1 (Z'N'E')	
eS	42.2 (ZNE)	eP	07 24 45.4 (Z)	
eP	08 19 22.3 (Z)	e	25 24.1 (Z)	
eS	20 10.3 (ZN)	eP	07 47 56.1 (Z)	
eP	10 13 32.1 (Z)	e	48 18.6 (Z)	
eP	12 37 02.1 (Z)	iP	D 09 17 42.7 (Z)	T:01.0 A:02.0
eP	12 51 37.4 (Z)	i	18 02.5 (Z)	
iP	C 16 34 30.5 (Z)	iP	C 12 10 26.1 (Z)	
eS	45.6 (ZN)	iS	12 10.8 (ZE)	
eP	17 31 47.2 (Z)	eiP	D 21 09 50.9 (Z)	
eS	32 44.4 (NE)	i	54.3 (Z)	
eP	20 37 57.4 (Z)	iP	D 22 55 56.6 (Z)	
eS	38 09.7 (ZE)	4 iP	D 00 19 39.3 (Z)	
iP	D 23 52 52.9 (Z)	iS	20 02.4 (ZNE)	
iS	53 00.3 (ZNE)	eP	02 27 25.0 (Z)	
2 iP	D 02 34 25.9 (Z)	iS	28 23.0 (N)	
iS	35.3 (E)	iP	C 03 18 58.8 (Z)	
eP	05 15 02.1 (Z)	iS	19 49.5 (ZNE)	
iS	08.6 (ZNE)	eiP	C 03 28 20.5 (Z)	
iP	C 07 09 57.7 (Z)	e(L)	38 46.0 (N')	
iS	10 01.5 (ZNE)	eL	43 52.0 (N'E')	
iP	C 07 12 54.3 (Z)	iP	D 03 41 33.9 (Z)	
iS	58.0 (ZNE)	iS	37.7 (ZNE)	
iP	07 40 33.1 (Z)	eP	04 21 49.1 (Z)	
iS	38.1 (N'E')	eP	05 34 35.6 (Z)	
eP	12 19 09.6 (Z)	e	35 18.1 (Z)	
e	21 54.6 (Z)	eiP	D 05 36 26.6 (Z)	
eP	13 44 21.7 (Z)	i	40.6 (Z)	
iS	45 41.8 (Z)	eP	05 40 40.6 (Z)	
eP	17 58 38.2 (Z)	eP	05 40 55.4 (Z)	
i(S)	18 00 41.6 (N)	iS	41 14.6 (N)	
iP	D 18 34 17.2 (Z)	eP	05 52 30.1 (Z)	
iS	27.2 (ZNE)	eS	49.3 (N)	





9	iP	D 16 59	42.7 (Z)		12	iP	D 04 52	03.5 (Z)
	iS	17 00	32.9 (ZNE)			i(S)		12.1 (E')
	eiP	17 02	22.9 (ZZ')			iP	D 06 45	37.9 (Z)
	i		30.0 (Z)			iS	46 07.9	(E)
	i(S)	10 48.2	(Z'N'E')	T:28.0 A:33.0		iP	C 08 49	25.9 (Z)
	i	20 32.2	(Z')	T:28.0 A:120.0		iS		41.9 (ZNE)
	eP	20 26	00.2 (Z)			eP	10 14	32.4 (Z)
10	iP	C 01 02	17.2 (Z)			iS		52.2 (ZN)
	iS	03	12.8 (ZNE)			iP	C 10 17	44.4 (Z)
	iP	C 02 00	17.5 (Z)			iS	18	29.1 (ZNE)
	iS		47.7 (ZNE)			eiP	10 48	23.7 (Z)
	eP	04 35	09.1 (Z)			iS	49	47.5 (ZNE)
	iS	36	16.4 (N)			iP	D 11 50	44.2 (Z)
	eP	04 41	00.3 (Z)			iS	52	12.1 (ZNE)
	iS		19.6 (ZNE)			iP	C 14 46	27.5 (Z)
	eP	05 32	21.6 (Z)			iS		44.7 (ZNE)
	eP	07 08	36.1 (Z)			iP	D 15 49	09.1 (Z)
	i(S)	10	18.6 (Z)			iS		21.7 (ZNE)
	iP	D 07 16	58.9 (Z)			iP	C 18 12	46.4 (Z)
	iS	17	22.8 (NE)			iS	13	07.7 (ZNE)
	iP	D 09 50	47.2 (Z)			e(L)	22 51	06.3 (Z')
	iS	51	03.4 (ZNE)			iP	C 23 03	27.5 (Z)
	eP	11 59	10.6 (Z)		13	iP	D 01 03	05.2 (Z)
	iS	12 00	03.9 (E)			iS		15.0 (ZNE)
	eP	15 16	45.4 (Z)			eP	05 22	21.1 (Z)
	eiP	17 29	02.2 (Z)			iS		46.5 (ZNE)
	eP	19 17	01.2 (Z)			eP	07 07	14.1 (Z)
	iP	D 19 45	41.8 (Z)			iS		39.6 (ZNE)
	iS		57.1 (ZNE)			eP	15 02	29.7 (Z)
	eP	22 44	00.6 (Z)			iP	C 16 44	18.7 (Z)
	iS	45	26.6 (ZNE)			iS		34.2 (ZNE)
11	eiP	C 00 40	38.0 (Z)			iP	C 20 06	41.7 (Z)
	eP	06 05	33.1 (Z)			i	07	10.2 (Z)
	iS	06	07.1 (N)			iP	C 20 56	47.6 (Z)
	eP	06 23	40.1 (Z)			iS	57	31.8 (ZNE)
	eP	07 13	16.6 (Z)		14	iP	D 00 50	38.0 (Z)
	eP	08 52	51.0 (Z)			iS		55.5 (ZE)
	iS	54	05.7 (N)			iP	C 03 20	45.3 (Z)
	eiP	13 13	25.2 (Z)			iS		57.7 (ZNE)
	iP	C 16 04	29.4 (Z)			iP	C 03 58	58.5 (Z)
	iS		46.8 (ZNE)			i(S)	59	22.0 (E')
	iP	C 16 43	08.5 (Z)			i(S)		28.0 (Z')
	iS		29.7 (E)			eP	04 09	40.5 (Z)
	iP	D 17 30	03.8 (Z)			i		52.6 (Z)
	iS		53.1 (ZNE)			i(S)	10	55.5 (NE)
	eiP	19 19	26.2 (Z)			iP	C 04 23	49.8 (Z)
	i	21	00.8 (E)			iS	24	22.5 (ZNE)
	i	22	16.2 (E)			eP	05 59	03.7 (Z)
	eP	21 03	48.0 (Z)			eS	06 00	09.6 (Z)
	iS	04	46.6 (N)			eiP	07 12	49.1 (Z)
12	iP	D 00 33	16.0 (Z)			iS	13	19.8 (ZNE)
	i		48.0 (Z)			eP	08 11	18.4 (Z)
	eP	04 02	24.7 (Z)			iS	12	02.1 (ZN)
	iS		30.0 (ZNE)			eP	10 57	42.8 (Z)
						iS	58	44.4 (E)



14 eiP D 14 21 07.8 (ZZ')  
 i(S) 25 18.2 (N'E')  
 e(L) 27 20.2 (Z')  
 iL 29 00.2 (Z')

T:24.0 A:71.5

eP 17 48 23.0 (Z)  
 iS 55.5 (ZN)

iP C 20 07 59.1 (Z)  
 iS 08 21.8 (N)

iP C 20 34 18.7 (Z)  
 iS 35 33.5 (Z)

eP 23 32 32.8 (Z)  
 i 33 19.0 (Z)

15 eiP D 00 48 15.7 (Z)

iP C 01 35 36.7 (Z)  
 iS 36 05.0 (ZNE)

eP 01 39 27.7 (Z)  
 iS 55.0 (Z)

eP 03 11 02.0 (Z)  
 iS 58.7 (E)

eP 06 09 25.1 (Z)

eP 07 26 03.6 (Z)

iP C 08 15 23.7 (Z)  
 iS 36.6 (ZNE)

eiP 08 23 04.1 (Z)

iP D 09 51 25.4 (Z)  
 iS 30.8 (Z)

iP C 10 01 51.6 (Z)  
 iS 02 13.1 (ZNE)

iP C 10 52 51.3 (Z)  
 i 53 34.4 (Z)

eiP D 11 55 09.1 (Z)  
 iS 41.6 (Z)

eiP 17 55 32.0 (Z)  
 i 35.7 (Z)  
 i 56 06.7 (Z)

T:00.9 A:08.5

iP C 18 00 28.7 (Z)  
 iS 55.2 (ZNE)

eP 18 55 12.4 (Z)  
 iS 58.7 (E)

iP 21 08 47.9 (Z)  
 iS 09 19.9 (ZNE)

16 eP 02 54 09.7 (Z)

eP 03 34 55.7 (Z)  
 iS 36 10.2 (ZN)

eP 04 00 52.3 (Z)  
 i 01 21.7 (Z)

eP 04 23 30.1 (Z)

iP C 04 37 45.6 (Z)  
 iS 38 14.4 (Z)

eP 06 31 10.1 (Z)  
 iS 47.0 (ZNE)

eP 14 09 32.2 (Z)  
 iS 11 04.0 (Z)

eP 15 50 34.9 (Z)  
 eS 52 08.9 (Z)

16 iP C 18 30 03.2 (Z)  
 i 34 42.2 (Z'E')

e(P) 20 21 52.2 (Z)

iP 22 01 38.1 (Z)  
 iS 02 40.8 (ZNE)

17 iP D 00 49 33.7 (Z)  
 iS 56.5 (N)

eP 01 29 11.0 (Z)

iP D 04 03 31.5 (Z)  
 iS 04 06.0 (ZNE)

eP 04 57 11.8 (Z)

eP 05 15 33.1 (Z)  
 iS 16 40.1 (NE)

iP 05 52 04.1 (Z)  
 iS 53 01.7 (ZNE)

eP 06 39 29.6 (Z)

eP 06 41 26.1 (Z)

iP C 08 03 58.4 (Z)  
 i 04 05.6 (Z)  
 e 10 18.1 (N')

T:01.0 A:14.0

e(L) 13 40.1 (N')

eP 09 02 49.1 (Z)  
 e 03 17.1 (Z)

eiP D 09 57 16.7 (Z)

iP D 12 09 14.0 (Z)  
 iS 17.3 (ZNE)

iP D 12 27 02.3 (Z)  
 iS 05.7 (ZNE)

iP C 17 03 41.2 (Z)

eP 17 10 48.4 (Z)

iP D 18 18 27.2 (Z)  
 iS 46.0 (NE)

eP 22 50 30.1 (Z)

18 eP 02 26 41.0 (Z)

eP 03 28 57.5 (Z)  
 iS 29 41.7 (N)

eP 04 03 02.0 (Z)

eP 04 14 39.6 (Z)  
 e 15 30.5 (Z)

eP 05 00 47.6 (Z)  
 e 01 46.1 (Z)

eP 06 03 09.4 (Z)

eP 06 16 29.8 (Z)

eP 06 20 32.6 (Z)  
 e 21 22.6 (Z)

eP 06 43 33.1 (Z)  
 iS 49.6 (ZNE)

eP 07 03 39.4 (Z)  
 iS 52.6 (ZNE)

eP 07 18 13.1 (Z)

eP 07 26 05.3 (Z)

eP 08 04 03.9 (Z)  
 iS 19.7 (E)

18 eP 08 30 19.1 (Z)  
 iS 31 11.8 (ZE)  
 iP D 09 17 36.0 (Z)  
 iS 46.6 (ZNE)  
 eP 09 28 27.8 (Z)  
 iP C 09 53 14.6 (Z)  
 iS 44.5 (ZNE)  
 iP D 10 21 37.6 (Z)  
 iS 45.6 (ZNE)  
 eiP 11 18 04.9 (Z)  
 iS 38.1 (ZNE)  
 eiP 11 56 24.6 (Z)  
 eP 12 52 51.2 (Z)  
 iS 54 26.1 (ZNE)  
 iP C 15 01 21.9 (Z)  
 iS 44.1 (ZNE)  
 eiP C 15 33 17.7 (Z)  
 i 57.7 (Z)  
 iP D 15 52 27.7 (Z)  
 e 55 57.0 (Z)  
 eL 16 37 06.2 (Z')  
 iP C 16 38 45.0 (Z)  
 iS 39 02.4 (ZE)  
 eP 18 43 26.2 (Z)  
 iS 44 49.2 (ZNE)  
 eP 19 02 46.2 (Z)  
 iP C 20 17 17.7 (Z)  
 iS 38.4 (ZNE)  
 iP D 23 02 37.2 (Z)  
 iS 51.8 (ZNE)  
 eP 23 10 07.1 (Z)  
 iP 23 14 15.8 (Z)  
 eP 23 52 13.3 (Z)

19 eP 02 12 15.0 (Z)  
 iS 46.9 (ZNE)  
 eiP 04 30 35.1 (Z)  
 iS 51.1 (NE)  
 iP D 04 46 13.9 (Z)  
 iS 20.1 (ZNE)  
 eP 07 34 53.1 (Z)  
 eP 11 15 22.9 (ZZ')  
 e 18 09.6 (Z)  
 e(S) 19 26.1 (N'E')  
 e(L) 36 32.1 (N')  
 eL 47 02.1 (E')  
 iP D 12 55 00.6 (Z)  
 i 12.6 (Z)  
 e 13 02 36.1 (N')  
 e 06 40.1 (Z')  
 eL 12 06.1 (N')  
 eiP 13 03 30.2 (Z)  
 iS 04 02.2 (ZE)  
 eP 14 41 42.5 (Z)  
 eP 18 28 50.9 (Z)

20 iP C 00 40 05.5 (Z)  
 iS 35.2 (N)

T:00.7 A:06.5

20 eiP 00 52 15.0 (Z)  
 iP C 01 04 30.0 (Z)  
 iS 57.0 (ZNE)  
 eiP 01 39 46.4 (Z)  
 iS 40 45.6 (Z)  
 iP D 09 36 03.7 (ZZ')  
 i 54.5 (Z)  
 i 37 10.5 (Z)  
 i 52 52.1 (Z')  
 i 57 14.1 (Z'N'E')  
 i 10 03 30.1 (N'E') T:12.0 A:09.5  
 i 05 44.1 (Z') T:20.0 A:17.0  
 i 20 20.1 (N'E') T:46.0 A:51.0  
 i 24 04.1 (Z') T:28.0 A:100.0  
 iP D 10 39 04.0 (Z)  
 iS 20.5 (ZNE)  
 iP C 10 44 33.1 (Z)  
 eP 12 32 00.1 (Z)  
 iS 33 07.2 (E)  
 iP C 17 55 47.7 (Z)  
 iP C 19 56 04.4 (Z) T:01.0 A:05.0

21 eP 01 07 53.0 (Z)  
 eP 03 45 49.0 (Z)  
 iP C 03 46 57.4 (Z)  
 iS 47 29.0 (E)  
 eP 03 49 17.5 (Z)  
 iP D 04 17 31.5 (Z)  
 iS 18 00.6 (ZN)  
 eP 04 55 36.6 (Z)  
 i 56 05.6 (Z)  
 iP C 04 59 33.6 (Z)  
 e 05 00 29.6 (Z)  
 i 03 55.6 (Z)  
 eP 05 07 22.1 (Z)  
 iS 47.1 (N)  
 eP 05 14 03.3 (Z)  
 iS 25.6 (ZNE)  
 eiP 05 17 17.6 (Z)  
 eP 05 26 50.7 (Z)  
 iS 27 14.6 (ZNE)  
 iP C 07 23 14.7 (Z)  
 iS 44.2 (ZN)  
 iP D 11 37 23.8 (Z)  
 eiP 11 58 03.8 (Z)  
 e 12 01 43.4 (Z)  
 iP D 12 37 26.8 (Z)  
 eiP 13 47 55.2 (Z)  
 iS 48 26.2 (Z)  
 iP 16 32 29.5 (Z)  
 iS 44.6 (ZE)  
 iP D 21 27 42.6 (Z)  
 iS 28 10.9 (ZNE)

22 eP 00 11 46.0 (Z)  
 eP 00 46 11.0 (Z)



22 eiP 01 23 41.0 (Z)  
 iS 24 52.0 (ZNE)  
 eP 03 56 33.2 (Z)  
 eS 57 00.0 (ZNE)  
 eP 04 04 33.8 (Z)  
 eP 05 23 20.5 (Z)  
 iP C 06 27 22.0 (Z)  
 iS 36.1 (ZNE)  
 eP 07 41 27.2 (Z)  
 e 42 05.0 (Z)  
 iP C 08 17 19.9 (Z)  
 e 29.9 (Z)  
 e(L) 33 20.1 (Z')  
 e(L) 34 40.1 (N')  
 eL 38 04.1 (Z')  
 eP 10 37 21.9 (Z)  
 e 32.1 (Z)  
 eL 11 21 24.1 (Z)  
 eiP 11 39 33.1 (Z)  
 iS 40 06.6 (ZNE)  
 iP D 13 22 08.2 (Z)  
 iS 23.2 (ZNE)  
 iP C 20 22 50.5 (Z)  
 eS 23 08.2 (ZE)  
 eP 23 48 09.3 (Z)  
 23 iP C 00 09 47.5 (ZZ')  
 iS 10 04.0 (ZEE')  
 eiP 02 24 55.0 (Z)  
 i(S) 25 46.0 (N)  
 eP 05 06 35.5 (Z)  
 iP D 05 51 32.1 (Z)  
 iS 37.5 (ZNE)  
 eP 06 17 41.2 (Z)  
 iP D 06 42 34.0 (Z)  
 iS 49.9 (ZNE)  
 eP 07 09 28.1 (Z)  
 eP 07 15 42.6 (Z)  
 iP D 14 59 58.7 (Z)  
 iS 15 00 17.4 (ZE)  
 e(P) 23 11 23.1 (Z)  
 eP 23 55 53.6 (Z)  
 24 eiP 01 17 36.5 (Z)  
 eP 02 29 40.0 (Z)  
 iP D 03 05 29.3 (Z)  
 iS 07 15.0 (ZNE)  
 eP 06 29 57.9 (Z)  
 i 30 18.1 (Z)  
 eP 07 14 05.0 (Z)  
 iS 09.1 (NE)  
 eP 07 24 38.0 (Z)  
 iS 42.6 (NE)  
 eP 08 07 43.1 (Z)  
 i 52.6 (Z)  
 eP 08 11 22.1 (Z)

T:01.0 A:01.5

T:20.0 A:04.0

T:01.0 A:05.5

24 iP D 19 58 15.2 (Z)  
 iS 19.7 (ZNE)  
 e(P) 20 26 40.5 (Z)  
 iP D 22 28 06.2 (Z)  
 iS 30 00.3 (NE)  
 25 eP 01 43 04.2 (Z)  
 iP D 01 46 50.0 (Z)  
 iS 54.3 (ZNE)  
 eP 02 13 18.0 (Z)  
 eP 02 18 13.0 (Z)  
 iS 17.5 (ZNE)  
 eP 03 47 49.0 (Z)  
 iS 49 08.5 (E)  
 eiP 04 01 36.2 (Z)  
 i 41.0 (Z)  
 iS 02 27.5 (ZN)  
 eP 04 04 45.5 (Z)  
 i 50.0 (Z)  
 iS 05 34.7 (ZN)  
 i 06 02.0 (Z')  
 eiP 05 23 34.1 (Z)  
 iS 24 29.7 (ZNE)  
 eP 05 29 04.6 (Z)  
 eP 05 45 02.9 (Z)  
 eP 05 46 33.2 (Z)  
 iS 45.5 (ZNE)  
 eP 07 20 25.6 (Z)  
 e 21 15.6 (Z)  
 e(P) 08 17 00.1 (Z)  
 eP 08 58 41.1 (Z)  
 eP 09 01 14.3 (Z)  
 eiP D 09 30 47.1 (Z)  
 i 52.3 (Z)  
 e(P) 11 08 30.1 (Z)  
 eP 13 23 34.7 (Z)  
 eiP 15 10 04.5 (Z)  
 eP 15 58 05.0 (Z)  
 iP C 17 04 27.8 (Z)  
 iS 31.6 (ZNE)  
 iP C 19 54 44.9 (Z)  
 iS 55 20.8 (ZNE)  
 26 iP C 01 35 37.0 (Z)  
 iS 36 03.8 (ZN')  
 iP C 01 44 24.7 (Z)  
 iS 28.3 (ZNE)  
 eP 01 46 33.0 (Z)  
 eP 02 03 13.0 (Z)  
 iS 04 00.5 (NE)  
 eP 02 54 52.8 (Z)  
 iS 57.2 (NE)  
 eP 06 06 30.9 (Z)  
 e 51.3 (Z)

T:10.0 A:80.0

26 eP 09 59 17.4 (Z)  
 iS 39.6 (ZNE)  
 eP 11 15 17.0 (ZZ')  
 i 21.1 (Z)  
 eS 18 20.1 (N'E') T:16.0 A:12.0  
 eiP C 14 10 35.9 (Z)  
 iP D 16 14 33.2 (ZZ')  
 i 38.2 (Z)  
 iS 17 12.2 (Z'N'E')  
 i 18 05.0 (Z)  
 iP C 16 34 37.7 (Z)  
 iS 51.4 (NE)  
 iP C 18 02 37.9 (Z)  
 iS 03 07.7 (Z)  
 iP D 23 31 54.3 (Z)  
 iS 32 21.3 (ZNE)  
 iP C 23 41 51.3 (Z)  
 iS 55.9 (ZNE)  
 27 eiP 00 34 56.7 (Z)  
 iS 35 33.5 (ZNE)  
 iP D 03 15 41.9 (Z)  
 iS 16 05.0 (ZNE)  
 eP 04 27 09.1 (Z)  
 iS 26.3 (ZNE)  
 eP 07 00 34.0 (Z)  
 eS 01 25.4 (Z)  
 iP D 11 45 58.6 (Z)  
 iS 46 25.3 (ZNE)  
 eiP 15 23 03.5 (Z)  
 iS 48.8 (E)  
 iP C 16 36 43.9 (Z)  
 iS 59.8 (NE)  
 iP C 17 11 02.1 (Z) T:01.2 A:19.0  
 e(P) 19 56 53.4 (Z)  
 28 eP 03 13 24.5 (Z)  
 iP C 05 16 05.9 (ZZ') T:01.2 A:04.5  
 i 10.4 (Z) T:01.4 A:10.0  
 i 18 24.1 (Z'N'E')  
 e 36 16.1 (E')  
 e(L) 52 06.1 (N')  
 eL 57 40.1 (E')  
 iP D 16 41 02.2 (Z)  
 iS 16.9 (N)  
 eP 19 23 07.9 (Z)  
 i 53.4 (Z)  
 iP D 23 08 26.3 (Z)  
 29 eP 02 12 03.9 (Z)  
 eS 53.8 (ZN)  
 iP C 02 49 20.0 (Z)  
 iS 50 01.0 (N)  
 eP 05 25 39.5 (Z)  
 iP C 08 26 14.7 (Z)  
 iS 19.7 (ZNE)  
 eP 12 51 36.4 (Z)  
 iS 52 37.5 (ZNE)

29 eiP C 15 13 24.0 (Z)  
 eP 21 02 56.4 (Z)  
 iS 03 24.2 (ZE)  
 iP C 22 00 16.3 (Z)  
 iS 21.1 (ZNE)  
 eP 23 00 24.3 (Z)  
 iS 39.1 (ZNE)  
 30 eiP 04 39 40.1 (Z)  
 iS 41 32.7 (ZNE)  
 i(S) 42 41.6 (N)  
 eP C5 46 38.1 (Z)  
 iS 59.2 (ZNE)  
 iP D 06 38 12.0 (Z)  
 iS 39 37.9 (ZNE)  
 iP D 07 24 11.6 (Z)  
 iS 59.2 (NE)  
 eP 08 17 37.6 (Z)  
 eP 18 33 46.3 (Z)  
 iS 34 36.5 (NE)

C: compresión.

D: dilatación.





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, 1967

1	eP	01 55 59.3 (Z)		2	eP	19 38 12.4 (Z)
	eP	05 06 37.6 (Z)			iP	C 23 40 10.3 (Z)
	eP	07 21 28.6 (Z)			iS	22.3 (ZNE)
	eiP	C 09 23 40.1 (Z)		3	iP	D 00 21 55.5 (Z)
	iS	54.5 (ZNE)			iS	22 11.8 (ZNE)
	iP	10 48 50.8 (Z)			eP	02 47 33.0 (Z)
	iS	49 09.1 (ZNE)			iS	48 46.5 (E)
	eP	12 08 36.0 (Z)			iP	C 03 48 58.5 (Z)
	iS	10 14.5 (Z)			iS	49 17.3 (Z)
	eP	12 46 06.8 (Z)			iP	C 04 08 41.6 (Z)
	iP	D 14 21 49.2 (Z)			iS	53.4 (ZNE)
	iS	22 00.4 (ZNE)			iP	D 05 16 14.4 (Z)
	iP	D 15 19 17.7 (Z)			iS	24.7 (ZN)
	iS	29.2 (ZNE)			eP	06 57 42.1 (Z)
	eP	20 56 22.2 (Z)			iS	58 19.9 (Z)
	iS	56.5 (Z)			eP	07 09 37.4 (Z)
	iP	C 22 28 53.3 (Z)			iS	10 00.9 (ZE)
	iS	30 34.6 (NE)			iP	D 07 57 31.3 (Z)
	eP	23 13 17.3 (Z)			iS	42.7 (ZNE)
2	eP	01 18 37.5 (Z)			eP	08 59 00.1 (Z)
	iS	19 02.6 (ZNE)			iS	36.8 (N)
	eP	02 29 09.4 (Z)			eP	15 23 05.2 (Z)
	iS	13.6 (ZNE)			iP	C 16 03 55.9 (Z)
	eP	02 38 59.5 (Z)			iS	04 11.2 (ZNE)
	iS	39 16.0 (ZNE)			eP	17 02 18.6 (Z)
	eiP	D 02 45 39.4 (Z)			iS	37.8 (ZE)
	iS	52.0 (N)			eiP	18 22 20.2 (ZZ')
	eP	03 46 23.0 (Z)			i	23 07.7 (Z)
	eP	04 18 55.3 (Z)			i	25 17.9 (Z)
	eP	04 36 54.8 (Z)			i(S)	27 10.9 (Z'N'E')
	iS	37 02.6 (N)			i(L)	30 02.2 (N')
	iP	C 05 03 06.5 (Z)			iL	33 00.2 (Z')
	iS	04 26.7 (NE)			eP	23 38 45.3 (Z)
	iP	C 05 40 46.5 (Z)		4	iP	D 00 34 40.6 (Z)
	iS	41 12.6 (ZNE)			iS	53.2 (ZNE)
	eP	06 08 18.4 (Z)			eP	02 00 22.2 (Z)
	eP	09 49 52.8 (Z)			eiP	06 08 29.9 (Z)
	iS	50 00.1 (ZNE)			e	11 30.6 (Z)
	iP	D 10 24 32.7 (Z)			e	13 24.1 (Z'N'E')
	iS	46.6 (ZNE)			e	20 08.1 (Z')
	eiP	C 10 37 03.1 (Z)	T:00.8 A:06.0		i	22 32.1 (Z'N')
	eP	13 16 02.5 (Z)			eP	06 37 52.6 (Z)
	iS	43.0 (ZE)			eP	06 48 34.4 (Z)
	iP	D 19 28 11.4 (Z)			iS	56.8 (N)
	i(S)	26.9 (N)			eP	07 57 27.1 (Z)
					iS	59 02.5 (NE)

4	eP	08 34	19.4 (Z)		6	eiP	10 07	13.4 (Z)	
	iS		40.1 (NE)			eP	10 38	28.6 (Z)	
	eP	09 01	58.3 (Z)			iS	39 00	00.1 (NE)	
	iS	03 03	03.1 (E)			iP	D 16 36	33.7 (Z)	
	eP	09 31	20.6 (Z)			iS		53.1 (Z)	
	iP	D 09 49	54.8 (Z)			iP	C 18 13	10.7 (Z)	
	eP	10 31	07.1 (Z)			iS		20.7 (E)	
	iP	D 15 32	11.9 (Z)			eP	23 04	25.3 (Z)	
	iS		21.7 (ZNE)		7	iP	D 01 17	07.0 (ZZ')	
	eP	17 40	28.5 (ZZ')			i		45.0 (Z)	
	i	42 44	44.2 (Z'N'E')			iS	19 27	27.2 (ZNE)	
	e	52 41	41.3 (Z)			iS	20 32	32.5 (ZNE)	
	e	53 22	22.5 (Z)			e(P)	01 28	23.0 (Z)	
	i	54 36	36.2 (Z')			eP	05 42	00.6 (Z)	
	i	18 00	08.2 (Z'N'E')			iS		36.6 (ZN)	
	i	16 20	20.2 (N')	T:48.0 A:89.0		eiP	06 43	25.5 (Z)	
	i(L)	22 02	02.2 (Z')	T:28.0 A:200.0		iS		54.2 (ZNE)	
	iP	C 21 59	51.4 (Z)			iP	D 07 21	37.2 (Z)	
	iS	22 00	11.0 (ZNE)			iS		42.1 (NE)	
	eP	23 40	38.6 (Z)			eP	08 47	09.6 (Z)	
	iS	41 29	29.7 (ZNE)			eP	09 27	42.1 (Z)	
	eiP	D 23 59	10.9 (Z)			e	28 04	04.1 (Z)	
5	eP	01 10	43.3 (Z)			iP	D 11 07	32.6 (Z)	
	eP	01 54	16.5 (Z)			iS		42.3 (ZNE)	
	eP	04 27	03.6 (Z)			iP	D 19 45	34.7 (Z)	
	e	30 09	09.1 (Z)			iS		37.7 (ZNE)	
	eP	05 23	20.1 (Z)			iP	C 20 18	04.7 (Z)	
	eP	05 29	20.1 (Z)			iS		20.2 (E)	
	eS		53.1 (ZNE)			iP	C 21 18	23.2 (Z)	
	eP	09 26	13.6 (Z)			i		55.3 (ZNE)	
	iP	C 09 42	34.0 (Z)			iP	C 23 23	37.4 (Z)	
	iS	43 38	38.1 (Z'N'E')			iS	24 41	41.8 (N)	
	iP	D 13 16	53.8 (Z)		8	eP	02 04	47.0 (Z)	
	iS	17 03	03.9 (ZNE)			eP	03 33	56.7 (Z)	
	iP	D 15 18	23.7 (Z)			iS	35 27	27.5 (ZNE)	
	iS		56.8 (E)			iP	D 04 13	54.3 (Z)	
	eP	16 59	22.7 (Z)			i	14 18	18.4 (E)	
	iS		42.2 (NE)			iS		22.3 (E)	
	iP	D 22 54	24.5 (Z)			eP	04 25	51.1 (Z)	
	iS		36.6 (ZNE)			i	26 16	16.1 (NE)	
	iP	C 22 57	22.7 (Z)			iS		21.8 (NE)	
	iS		30.8 (ZNE)			iP	D 05 53	48.6 (Z)	
	eP	23 46	58.5 (Z)			iS	54 14	14.6 (ZNE)	
6	iP	C 03 01	34.5 (Z)			eP	06 55	34.6 (Z)	
	iS		57.0 (ZNE)			e	56 01	01.8 (Z)	
	i(S)		58.0 (ZNE)			eP	07 03	39.6 (Z)	
	eP	03 40	55.0 (Z)			iS		48.3 (Z)	
	iS	42 11	11.8 (E)			eP	08 04	54.3 (Z)	
	eP	06 39	59.4 (Z)			iP	D 08 13	34.4 (Z)	
	e	40 48	48.1 (Z)			iS	14 10	10.9 (ZNE)	
	eP	07 45	42.6 (Z)			eP	09 13	25.9 (Z)	
	eP	08 01	49.6 (Z)			iP	C 12 01	08.1 (Z)	
	eiP	C 8 18	57.1 (Z)			iS		38.9 (E)	
	iS	19 10	10.1 (ZNE)			iP	C 13 58	01.2 (Z)	
						iS		24.4 (ZNE)	



8	iP	C 17 21	23.4 (Z)		10	eP	09 52	09.1 (Z)	
	iS		49.5 (ZNE)			iS		31.9 (NE)	
	iP	C 18 08	11.0 (Z)			iP	C 16 36	31.6 (Z)	
	iS		32.1 (NE)			iS		46.7 (ZE)	
	eP	18 27	21.7 (Z)			iP	D 17 26	06.0 (Z)	
	eiP	D 18 40	18.2 (Z)			iS		58.9 (ZN)	
	e(L)	19 09	08.2 (Z')			eP	20 14	16.2 (Z)	
	iP	D 22 12	13.3 (Z)		11	eP	01 05	47.0 (Z)	
	iS		57.8 (N)			eP	03 04	00.3 (Z)	
	iS	13 03	03.3 (E)			iP	C 04 03	13.5 (Z)	
	eP	23 14	50.3 (Z)			iS		36.7 (NE)	
	eP	23 21	36.6 (Z)			eP	04 14	30.1 (Z)	
	iS		53.7 (ZN)			eP	06 11	10.6 (Z)	
9	eP	00 02	09.8 (Z)			i		15.4 (Z)	
	eiP	00 38	51.5 (Z)			eP	06 50	17.1 (Z)	
	iS	39 27	00 (ZNE)			eP	09 56	15.6 (Z)	
	eP	02 03	50.5 (Z)			iP	C 10 33	23.6 (Z)	
	iS	04 06	06.7 (ZNE)			iS	34 50	01 (Z)	
	eP	02 31	51.5 (Z)			iP	D 15 14	54.7 (ZZ')	
	eP	04 25	08.6 (Z)			iS	15 07	02 (N'E')	
	e(P)	04 33	14.6 (Z)			eiP	D 16 11	56.2 (Z)	
	eiP	05 04	12.1 (Z)			i	12 26	02 (Z)	
	e	06 09	09.1 (Z)			iP	D 20 29	53.2 (ZZ')	
	e(P)	08 19	34.1 (Z)			iS	31 14	02 (NEN'E')	
	eP	08 37	18.1 (Z)			iP	C 23 59	19.5 (Z)	
	eP	09 23	29.1 (Z)			iS		24.1 (ZNE)	
	eP	09 48	15.1 (Z)		12	eP	00 37	32.2 (Z)	
	eP	13 47	42.7 (Z)			eiP	C 04 54	25.3 (Z)	
	eP	14 29	19.4 (Z)			eP	05 54	44.6 (Z)	
	eiP	D 17 34	29.2 (ZZ')	T:01.0 A:25.5		eiP	06 47	48.6 (Z)	T:01.0 A:03.0
	i	36 47	00 (ZZ')			eiP	C 06 52	04.1 (ZZ')	
	i	38 28	00 (ZZ'N')			e	57 20	01 (Z'N'E')	
	i	44 04	02 (Z'N'E')			iP	D 07 04	04.9 (Z)	T:00.7 A:03.3
	i	45 16	02 (Z'N'E')			eP	07 25	54.9 (Z)	
	i	46 44	02 (Z'N'E')			e	26 44	06 (Z)	
	i	50 46	02 (Z)			eiP	07 29	45.9 (Z)	
	i	51 14	08 (Z)			e(P)	08 38	06.6 (Z)	
	i	52 10	02 (N')	T:22.0 A:47.0		iP	D 09 58	00.1 (Z)	
	i	55 09	07 (Z')			iS		13.1 (NE)	
	iP	D 18 16	24.0 (Z)			iP	C 11 45	00.1 (Z)	
	eP	19 56	29.9 (Z)			iS		14.9 (ZNE)	
	iS		42.2 (E)			eiP	13 12	05.3 (Z)	
	eiP	22 02	48.8 (Z)			eP	13 14	18.2 (Z)	
	iS	03 06	03 (ZN)			i	15 42	07 (Z)	
10	iP	C 04 51	31.3 (Z)			iP	D 14 23	01.9 (Z)	
	iS	52 00	01 (NE)			iS		40.2 (ZNE)	
	eP	05 34	37.6 (Z)			iP	C 14 42	49.8 (Z)	
	eP	07 20	22.8 (Z)			iS	43 12	07 (ZNE)	
	e	21 47	01 (Z)			eiP	C 18 51	13.7 (ZZ')	T:01.4 A:23.0
	eP	08 16	55.6 (Z)			i		45.2 (ZZ')	
	i	17 14	06 (Z)			i	53 15	02 (Z)	
	iP	D 09 24	14.4 (Z)			i	19 05	18.2 (Z')	
	iS		19.4 (ZNE)						
	eP	09 28	16.4 (Z)						

12	eP	19 16	23.2 (Z)	15	iP	C 08 07	00.6 (ZZ')	T:01.0 A:27.0
	iS	17	39.2 (N)		i		38.1 (ZZ')	T:02.2 A:56.5
13	eP	03 44	15.5 (Z)		i	09	50.6 (Z)	
	eP	04 23	19.1 (Z)		i(S)	12	04.1 (Z'N'E')	T:22.0 A:82.0
	iS	24	00.1 (ZNE)		i	14	08.1 (Z)	
	eiP	07 16	29.6 (Z)		i	28	16.1 (Z'E')	
	iP	D 07 53	16.6 (Z)		i	33	28.1 (Z'E')	
	iS		30.3 (ZNE)		eP	08 38	34.9 (Z)	
	eP	08 04	51.6 (Z)		e	39	46.1 (Z)	
	eiP	D 09 10	56.1 (Z)		iP	C 13 37	05.1 (Z)	
	iP	C 09 53	24.5 (Z)		iS	38	01.2 (N)	
	iS		38.5 (ZNE)		eP	15 21	53.4 (Z)	
	iP	14 22	24.7 (Z)		iP	C 16 02	50.7 (Z)	
	iS		34.2 (N'E')		iS	03	50.2 (E)	
	eiP	15 50	59.9 (Z)		eiP	19 36	38.2 (Z)	
	iS	51	15.2 (ZE)		iS		51.7 (ZNE)	
	iP	C 16 53	01.2 (Z)		eP	21 14	45.7 (Z)	
	iS		17.2 (ZNE)		iP	D 22 40	13.3 (Z)	
	iP	C 17 03	40.2 (Z)	16	iP	C 00 15	01.0 (Z)	
	iS		55.7 (NE)		iS		20.9 (NE)	
	eP	20 08	30.9 (Z)		eP	01 33	49.0 (Z)	
	iP	D 20 29	02.0 (Z)		i	34	43.7 (ZN)	
	iS		41.7 (ZNE)		eP	01 42	10.7 (Z)	
	eP	21 30	44.7 (Z)		iS	43	07.1 (Z)	
	eiP	23 33	07.6 (Z)		iP	D 04 07	32.7 (Z)	
	eP	00 12	47.0 (Z)		iS		50.6 (ZNE)	
	iS	13	29.1 (ZNE)		eP	05 20	20.1 (Z)	
	eiP	02 29	36.2 (Z)		iS		31.9 (NE)	
	iS	30	06.9 (ZE)		iP	D 05 21	51.3 (Z)	
	eP	03 38	00.5 (Z)		iS	22	23.4 (ZN)	
	e	40	31.0 (Z)		iP	D 05 33	41.9 (Z)	
	e	44	14.5 (Z)		iS	34	12.8 (ZN)	
	e(L)	48	24.0 (E')		eP	03 15	14.1 (Z)	
	eL	52	24.0 (Z')	T:18.0 A:18.0	iS	16	14.0 (E)	
	eP	03 48	23.5 (Z)		i(S)		30.0 (ZNE)	
	e(S)	49	42.0 (N)		eP	09 05	26.6 (Z)	
	eP	06 07	04.1 (Z)		iS		43.3 (ZNE)	
	iS		34.9 (ZE)		iP	C 10 29	43.2 (Z)	
	eP	06 31	02.9 (Z)		iP	C 10 48	07.6 (Z)	
	iP	D 16 38	19.2 (Z)		iS		23.1 (ZE)	
	iS		37.0 (ZNE)		iP	C 13 26	31.9 (Z)	
	iP	C 19 12	28.0 (Z)		iS		36.7 (ZNE)	
	iS	13	18.6 (N)		eP	13 40	00.2 (Z)	
	iP	D 19 46	27.7 (Z)		iP	C 16 39	02.5 (Z)	
	iS		44.0 (ZNE)		iS		17.5 (N)	
	iP	D 22 17	00.5 (Z)		eP	17 17	55.7 (ZZ')	
	iS		31.4 (E)		i	18	15.4 (Z)	T:01.1 A:13.0
	iP	D 23 32	21.8 (Z)		i	19	08.2 (Z'N')	
	iS		37.3 (NE)		i	25	16.2 (Z'N')	T:28.0 A:19.5
15	eP	00 14	21.5 (Z)		iP	C 19 12	28.7 (Z)	
	i		34.5 (Z)		iS		54.2 (E)	
	iS	15	19.1 (N)		eP	20 23	35.2 (Z)	
	eP	04 39	08.6 (Z)		iS	24	00.0 (E)	
	iS	40	05.2 (N)		eP	21 18	20.2 (Z)	
	eP	05 01	32.1 (Z)					



17 eiP D 04 19 09.9 (Z)  
 iS 37.6 (ZE)  
 eP 05 23 29.0 (Z)  
 eP 05 42 36.1 (Z)  
 iS 43 39.9 (ZNE)  
 eP 07 08 28.6 (Z)  
 iP C 14 03 16.7 (Z)  
 e 04 29.7 (Z)  
 iP D 14 51 02.2 (Z)  
 iS 07.0 (ZNE)  
 iP C 16 07 21.0 (Z)  
 iS 08 01.1 (NE)  
 iP D 17 35 04.2 (Z)  
 iS 20.2 (NE)  
 iP D 21 36 09.4 (Z)  
 iS 27.4 (ZNE)  
 18 e(P) J0 45 30.4 (Z)  
 iS 46 45.0 (NE)  
 e 01 25 48.0 (Z')  
 e 30 38.0 (Z')  
 i 36 30.8 (N')  
 e 37 34.0 (E')  
 e 44 48.0 (N')  
 e 55 24.0 (E')  
 eL 57 50.0 (E')  
 e(L) 02 00 40.0 (Z'N')  
 iL 04 38.0 (Z')  
 iP C 01 28 42.0 (Z)  
 eS 29 09.5 (N)  
 iP D 02 31 51.0 (Z)  
 iS 56.6 (ZNE)  
 iP D 05 13 02.1 (Z)  
 iS 13.1 (ZNE)  
 eP 05 40 38.5 (Z)  
 eS 41 13.4 (ZNE)  
 eP 06 35 08.1 (Z)  
 iP C 06 40 21.3 (Z)  
 iS 41 26.7 (ZNE)  
 iP C 07 39 15.7 (Z)  
 iS 29.9 (ZNE)  
 iP D 12 59 51.4 (Z)  
 iS 13 00 09.0 (ZNE)  
 iP C 14 41 02.1 (Z)  
 i 28.6 (Z)  
 iP C 16 37 36.7 (Z)  
 eS 51.9 (ZNE)  
 eiP 20 27 10.1 (Z)  
 iS 20.5 (ZNE)  
 eP 22 19 47.3 (Z)  
 19 iP D 01 58 51.5 (Z)  
 iS 59 07.0 (ZNE)  
 iP C 04 21 46.4 (Z)  
 iS 22 24.0 (E)  
 iP C 05 08 50.5 (Z)  
 iS 55.1 (ZNE)

T:44.0 A:18.5  
 T:28.0 A:45.0

19 eP 06 49 15.4 (Z)  
 iS 29.2 (ZNE)  
 eP 13 26 07.2 (Z)  
 eP 15 36 46.7 (Z)  
 iP D 15 48 34.1 (Z)  
 iP C 21 02 17.7 (Z)  
 20 iP C 00 42 30.0 (Z)  
 i 53.3 (Z)  
 iS 43 17.1 (ZNE)  
 iP D 00 47 22.5 (Z)  
 eiP 01 12 10.7 (ZZ')  
 e(S) 19 44.0 (N'E')  
 e 23 52.0 (Z')  
 e 34 00.0 (N')  
 e 36 20.0 (Z')  
 iP D 02 53 03.9 (Z)  
 iP C 03 30 30.0 (Z)  
 i 41.2 (Z)  
 iS 31 40.9 (ZNE)  
 i(S) 32 02.3 (ZNE)  
 e(P) 06 05 21.8 (Z)  
 eP 08 34 50.1 (Z)  
 e 35 07.8 (Z)  
 eP 09 00 52.4 (Z)  
 iS 01 10.6 (ZNE)  
 eP 10 08 08.3 (Z)  
 iS 09 43.1 (NE)  
 iP D 12 21 25.1 (Z)  
 iS 55.3 (ZNE)  
 eiP 12 59 28.2 (Z)  
 iS 46.8 (ZNE)  
 iP D 14 27 09.0 (Z)  
 iS 24.1 (ZNE)  
 eP 14 28 16.7 (Z)  
 eP 15 34 53.4 (Z)  
 iS 35 42.5 (ZNE)  
 iP C 16 40 02.9 (Z)  
 i 18.5 (E)  
 i(S) 35.2 (E)  
 eP 17 34 29.7 (Z)  
 eP 19 32 19.7 (Z)  
 i 32.2 (Z)  
 e(P) 19 36 42.2 (Z)  
 eP 22 32 41.2 (Z)  
 iS 33 34.1 (NE)  
 eP 23 24 35.3 (Z)  
 i 44.1 (Z)  
 21 iP D 00 37 46.0 (Z)  
 iS 38 03.2 (E)  
 iP D 02 37 50.6 (ZZ')  
 iS 39 52.5 (E)  
 e 41 14.1 (E)  
 iP D 05 18 31.3 (Z)  
 eiP 05 29 16.9 (Z)

T:01.1 A:04.4

21 eP 08 01 44.1 (Z)  
 iS 02 25.2 (ZE)  
 eiP C 08 29 42.9 (Z)  
 i 30 43.6 (Z)  
 iP D 10 24 10.3 (Z)  
 iS 28.1 (ZN)  
 iP D 11 20 01.5 (Z)  
 eS 30.6 (Z)  
 iP C 11 53 17.7 (Z)  
 iS 42.6 (ZE)  
 eP 14 51 58.2 (Z)  
 iS 53 00.7 (E)  
 eiP 14 57 55.7 (Z)  
 iS 58 15.0 (ZNE)  
 iP C 16 34 33.4 (Z)  
 i(S) 49.2 (E)  
 eP 20 22 52.0 (Z)  
 22 iP C 00 54 02.0 (ZZ')  
 iS 55 28.0 (Z'N'E')  
 i(P) C 01 03 25.7 (Z)  
 iP D 03 52 19.8 (Z)  
 iS 25.3 (ZNE)  
 iP C 03 54 10.8 (ZZ')  
 iS 16.0 (NEE')  
 iP D 04 41 25.0 (ZZ')  
 iS 48.0 (Z'N'E')  
 eP 04 50 25.0 (Z)  
 iS 52 00.2 (NE)  
 iP D 04 58 50.1 (Z)  
 iS 59 11.1 (ZNE)  
 eP 06 24 46.8 (Z)  
 eP 06 49 57.1 (Z)  
 eP 07 23 34.1 (Z)  
 iP C 08 44 32.3 (Z)  
 iS 46.8 (NE)  
 iP D 10 27 23.6 (Z)  
 eP 12 41 28.9 (Z)  
 e(P) 12 51 29.1 (Z)  
 eP 17 40 45.7 (Z)  
 eP 19 27 57.7 (Z)  
 iS 28 11.2 (ZNE)  
 iP C 20 30 28.7 (Z)  
 iS 43.9 (ZNE)  
 iP C 20 33 54.2 (Z)  
 iS 34 07.2 (ZNE)  
 eP 22 48 51.8 (Z)  
 i 51 15.1 (Z)  
 eiP 23 47 42.3 (Z)  
 iS 48 35.1 (E)  
 23 eP 00 19 00.7 (Z)  
 iS 27.5 (N)  
 iP D 01 05 44.5 (Z)  
 iS 06 00.7 (ZN)

23 eP 01 33 21.0 (Z)  
 iS 34 43.5 (N)  
 eiP 01 51 44.0 (Z)  
 iS 52 45.0 (N)  
 eP 04 23 03.1 (Z)  
 eP 06 13 55.1 (Z)  
 eiP 08 46 00.1 (Z)  
 i 05.0 (Z)  
 e 47 56.4 (Z)  
 iP C 08 50 43.1 (Z)  
 iS 56.9 (ZNE)  
 eP 08 55 25.1 (Z)  
 eiP 10 53 58.6 (Z)  
 iS 55 31.1 (E)  
 iP C 11 07 20.1 (Z)  
 iS 24.7 (ZNE)  
 eP 11 58 27.1 (Z)  
 eiP 12 18 16.5 (Z)  
 e 19 45.8 (Z)  
 eP 13 34 50.5 (Z)  
 iP D 14 19 28.5 (Z)  
 iS 41.0 (ZNE)  
 iP D 15 39 46.9 (Z)  
 iS 40 03.7 (ZNE)  
 iP C 16 42 37.1 (Z)  
 iS 53.7 (ZE)  
 i(S) 57.2 (Z)  
 iP C 17 24 23.2 (Z)  
 iS 50.7 (Z)  
 iP C 17 44 49.4 (Z)  
 iS 45 03.8 (N)  
 eP 19 17 07.2 (Z)  
 iS 18 01.0 (NE)  
 iP D 19 29 55.2 (Z)  
 iS 30 10.2 (ZNE)  
 iP C 23 27 37.0 (Z)  
 iS 28 28.3 (E)  
 24 eP 00 48 31.5 (Z)  
 iS 38.0 (ZNE)  
 eP 01 13 27.3 (Z)  
 eP 03 26 28.7 (Z)  
 eiP 04 05 13.6 (Z)  
 eP 07 15 16.3 (Z)  
 iS 16 29.6 (E)  
 eP 08 58 31.6 (Z)  
 eP 09 12 18.1 (Z)  
 eP 09 42 23.1 (Z)  
 i(S) 44 03.7 (N)  
 eP 09 52 16.6 (Z)  
 iS 35.5 (E)  
 eP 11 08 19.1 (Z)  
 eP 12 16 37.1 (Z)

T:01.0 A:18.0



24 iP C 12 47 44.5 (Z)  
 iS 48 27.3 (N)  
 eP 15 21 30.7 (Z)  
 i 55.2 (Z)  
 iP C 16 35 50.7 (Z)  
 iS 36 07.7 (N)  
 eP 18 11 56.2 (Z)  
 eP 18 38 24.7 (Z)  
 iP C 19 15 17.9 (Z)  
 iS 16 42.8 (NE)  
 iP D 19 51 35.8 (Z)  
 eP 20 58 58.7 (Z)  
 iS 59 08.9 (E)  
 eP 21 11 45.7 (Z)  
 eS 12 14.7 (ZNE)  
 eP 21 18 33.9 (Z)  
 eP 23 47 34.1 (Z)  
 e 48 17.1 (Z)  
 25 iP D 00 22 45.5 (Z)  
 iS 52.7 (ZNE)  
 iP C 01 19 23.0 (ZZ')  
 i 20 18.0 (Z)  
 i 24 04.0 (Z'E')  
 i 31 20.0 (N'E')  
 i(L) 47 04.0 (Z'E')  
 eP 04 08 43.0 (Z)  
 iS 09 06.0 (N)  
 eP 04 33 14.6 (Z)  
 iS 40.0 (Z)  
 eP 04 54 30.9 (Z)  
 iP C 05 37 45.1 (Z)  
 iS 38 21.1 (ZN)  
 eP 06 34 31.1 (ZNE)  
 eS 45.3 (ZNE)  
 eP 09 15 00.6 (Z)  
 e 37.3 (Z)  
 iP C 11 34 04.6 (Z)  
 iS 20.8 (ZNE)  
 iP C 11 53 15.5 (Z)  
 i 31.9 (ZE)  
 iS 44.3 (E)  
 eP 12 27 18.3 (Z)  
 eP 14 19 43.5 (Z)  
 iS 57.2 (Z)  
 eP 15 43 30.7 (Z)  
 iP C 16 38 01.9 (Z)  
 iS 17.2 (Z)  
 eP 17 28 16.7 (Z)  
 iS 29 29.9 (E)  
 iP D 19 22 23.6 (Z)  
 iS 39.5 (ZN)  
 iP C 22 23 13.3 (Z)  
 iS 25.8 (ZN)  
 eP 23 08 47.7 (Z)  
 iS 09 28.8 (Z)

T:01.0 A:03.0

26 eiP 00 42 22.5 (Z)  
 i 40.0 (Z)  
 i 43 17.0 (Z)  
 e 47 02.0 (Z)  
 iP D 01 51 38.8 (Z)  
 iS 53 03.2 (NE)  
 iP D 05 30 42.9 (Z)  
 iP D 05 49 31.5 (Z)  
 iS 47.6 (ZE')  
 eP 06 34 29.1 (Z)  
 iS 35 35.9 (NE)  
 eP 08 02 07.1 (Z)  
 e 33.9 (Z)  
 e 05 41.6 (Z)  
 eP 08 26 57.8 (Z)  
 iS 27 44.8 (E)  
 eP 09 07 47.8 (Z)  
 eP 09 48 12.6 (Z)  
 eP 12 05 28.6 (Z)  
 eP 13 52 06.2 (Z)  
 e 25.7 (Z)  
 eiP 17 18 00.2 (Z)  
 iS 51.7 (N)  
 eP 17 42 04.2 (Z)  
 e 44.7 (Z)  
 eP 21 00 15.2 (Z)  
 iS 01 38.2 (E)  
 27 eiP C 00 25 09.5 (Z)  
 eiP D 00 38 27.5 (Z)  
 i 32.1 (Z)  
 i 43.0 (Z)  
 e 42 28.0 (Z)  
 iP D 02 58 25.1 (Z)  
 eP 04 48 46.6 (Z)  
 iS 49 02.6 (ZN)  
 eP 04 59 33.9 (Z)  
 eP 06 31 35.6 (Z)  
 i 46.6 (Z)  
 eP 16 11 40.4 (Z)  
 i 12 07.5 (Z)  
 i 15 00.9 (Z)  
 iP C 19 49 09.7 (Z)  
 iS 50 17.2 (Z)  
 28 iP D 00 26 41.5 (Z)  
 i 28 30.2 (E)  
 i(S) 29 10.7 (E)  
 iP D 01 16 40.0 (Z)  
 iP D 03 26 14.5 (Z)  
 iS 18.6 (NE)  
 eiP 04 22 58.7 (Z)  
 iS 23 25.2 (E)  
 eP 04 29 50.0 (Z)  
 iP C 04 46 24.1 (Z)  
 iS 47 13.6 (ZNE)

T:02.0 A:04.5

T:01.0 A:02.5

T:01.0 A:02.4

28 eP 06 53 39.5 (Z)  
 e 54 06.6 (Z)  
 iP C 13 51 34.5 (Z)  
 iS 53.7 (ZNE)  
 iP C 17 29 59.1 (Z)  
 iS 30 29.7 (Z)  
 iP D 21 08 52.7 (Z)  
 iS 09 20.2 (E)  
 eP 23 09 44.0 (Z)  
 29 iP C 01 23 19.5 (Z)  
 i 48.0 (E)  
 eP 01 55 32.0 (Z)  
 eS 50.5 (ZNE)  
 eP 03 23 33.0 (Z)  
 i 44.8 (N)  
 iS 24 47.5 (ZNE)  
 iP D 11 42 20.1 (Z)  
 iS 39.3 (ZNE)  
 eiP 12 47 50.1 (Z)  
 e(S) 54 50.1 (N'E')  
 e(L) 13 03.52.1 (Z'N')  
 iP C 14 19 00.0 (Z)  
 iS } 39.2 (ZNE)  
 iP } D 20 49 23.4 (Z)  
 iS 50 01.4 (N)  
 iP C 23 36 35.8 (Z)  
 30 eP 00 09 05.5 (Z)  
 i 10 27.0 (Z)  
 iP C 01 52 38.3 (Z)  
 iS 58.8 (N)  
 eP 02 56 12.5 (Z)  
 eP 05 00 10.1 (Z)  
 iP D 05 04 30.9 (Z)  
 iS 05 25.8 (N)  
 eP 06 14 54.1 (Z)  
 iS 15 07.3 (Z)  
 iP C 06 26 13.1 (Z)  
 iS 39.1 (NE)  
 eP 09 00 32.1 (Z)  
 eiP 12 12 31.4 (Z)  
 iS 13 14.8 (NE)  
 iP C 14 01 54.7 (Z)  
 iS 02 34.0 (Z)  
 eiP 14 28 02.2 (Z)  
 i 15.7 (Z)  
 i(S) 29 34.2 (N)  
 31 iP 00 00 21.6 (Z)  
 iS 01 07.5 (ZN)  
 eP 02 03 17.0 (Z)  
 iS 04 53.9 (ZN)  
 iP C 04 29 22.5 (Z)  
 iS 31.0 (ZNE)  
 eP 04 50 58.7 (Z)  
 iS 51 49.9 (N)

31 eP 06 13 10.1 (Z)  
 iS 30.5 (N)  
 iP D 06 47 31.6 (Z)  
 eP 07 01 35.4 (Z)  
 eP 08 26 40.1 (Z)  
 iP C 16 37 10.2 (Z)  
 iS 29.9 (N)

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C: compresión

D: dilatación

Universidad Nacional de San Agustín  
 Instituto Geofísico  
 Sección de Sismología  
 Casilla 23  
 Arequipa, Perú



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, 1967

1 eP	04 50 10.1 (Z)		3 e	08 00 44.1 (Z'N')	
eiP	06 02 57.4 (Z)		e	01 50.1 (Z)	
iS	03 11.9 (E)		e	18 46.1 (Z'N'E')	
eP	07 04 32.4 (Z)		e	22 16.1 (Z'N'E')	
iS	48.6 (ZNE)		eP	08 56 14.3 (Z)	
eP	09 07 54.8 (Z)		iS	57 21.6 (ZNE)	
eiP	17 30 09.4 (Z)		eP	10 51 54.6 (Z)	
iS	25.8 (ZNE)		iP	C 12 14 57.6 (Z)	
iP	C 18 28 32.2 (Z)		i	15 21.1 (Z)	
iS	44.8 (ZNE)		iS	26.3 (ZNE)	
iP	C 19 16 37.0 (ZZ')	T:01.2 A:08.0	iP	13 54 39.2 (Z)	
eiP	19 45 54.4 (Z)		i(S)	50.7 (E)	
e	57 20.2 (Z')		iP	C 16 35 43.9 (Z)	
e	20 07 06.2 (Z')		i	49.1 (Z)	
iP	C 20 22 52.5 (Z)		iS	36 04.5 (E)	
iS	23 07.7 (N)		iP	C 16 48 54.2 (Z)	
eP	21 19 01.3 (Z)		iS	49 08.2 (ZNE)	
2 iP	D 00 58 17.9 (Z)		iP	C 20 25 18.0 (Z)	
iS	39.1 (ZE)		iS	24.1 (ZNE)	
iP	C 01 49 40.3 (Z)		iP	D 22 46 43.8 (Z)	T:00.7 A:11.0
iS	44.0 (ZN)		i	47 12.1 (Z)	
eiP	03 33 18.5 (Z)		4 eP	02 48 37.5 (Z)	
eS	32.5 (ZNE)		eP	02 51 53.0 (Z)	
iP	C 03 35 18.7 (Z)		e	53 52.7 (Z)	
i	24.0 (Z)	T:00.8 A:04.0	e	54 57.8 (Z)	
i	37 33.0 (ZNEZ')		eP	04 37 26.8 (Z)	
eP	06 51 42.1 (Z)		iS	52.7 (NE)	
eP	07 00 51.8 (Z)		iP	C 04 55 38.5 (Z)	
iS	57.1 (Z)		iS	49.0 (NE)	
eiP	08 33 18.8 (Z)		eiP	05 27 17.5 (Z)	
e	35 12.1 (Z)		e	28 14.3 (Z)	
iP	C 18 20 50.0 (Z)		iP	D 08 22 33.0 (Z)	
iS	21 07.7 (ZNE)		iS	23 37.2 (NE)	
iP	D 19 54 57.7 (Z)		iP	C 08 45 15.9 (Z)	
iS	55 08.2 (ZNE)		iS	32.0 (ZNE)	
iP	C 22 36 05.8 (Z)		eiP	10 33 48.0 (Z)	
iS	18.7 (ZNE)		iS	34 50.0 (E)	
3 iP	C 01 13 01.6 (Z)		eP	13 46 33.4 (Z)	
iS	20.0 (ZN)		iP	D 14 28 59.8 (Z)	
iP	C 01 14 33.3 (Z)		iS	29 09.9 (ZNE)	
iS	15 04.7 (NE)		eP	14 50 05.4 (Z)	
eP	02 12 39.0 (Z)		iP	16 30 17.1 (ZZ')	
iS	14 13.5 (NE)		i	56.1 (Z)	
iP	C 04 12 31.5 (Z)		i(S)	33 10.7 (Z'N'E')	
iS	45.3 (ZNE)		i	35 03.9 (N')	
e(P)	05 17 18.6 (Z)		iP	D 23 42 17.4 (Z)	
			iS	29.9 (ZNE)	

5	eP	00 03	07.0 (Z)	7	iP	C 20 53	13.3 (Z)		
	iS		21.5 (ZNE)		iS		56.2 (NE)		
	iP	C 01 20	31.4 (Z)		eiP	23 45	48.1 (Z)		
	iS		47.3 (ZNE)		iS	46	06.6 (NE)		
	iP	D 01 29	56.3 (Z)	8	iP	C 00 03	08.5 (Z)		
	iS		30 00.0 (ZNE)		eP	02 15	46.0 (Z)		
	eP	02 52	49.0 (Z)		iP	C 02 38	36.5 (Z)		
	iS	53	10.0 (ZNE)		iS		46.0 (ZNE)		
	eP	05 18	25.6 (Z)		eP	03 17	55.0 (Z)		
	eP	08 06	04.8 (Z)		i	18	04.5 (Z)		T:01.0 A:03.5
	iS	07	30.9 (ZE)		e	23	42.0 (N')		
	eP	09 04	19.1 (Z)		e	26	36.0 (Z'E')		
	eP	09 10	33.9 (Z)		iP	C 03 26	14.1 (Z)		
	eiP	14 28	24.7 (Z)		iS		30.1 (ZNN'E)		
	e	34	20.2 (E')		iP	C 05 54	53.1 (Z)		
	iP	D 15 23	24.6 (Z)		iS	55	04.9 (ZNE)		
	iS		29.8 (ZNE)		eiP	C 06 27	02.8 (Z)		T:01.4 A:08.0
	iP	C 20 50	40.2 (Z)		i		33.1 (Z)		T:01.0 A:07.0
	iS	51	23.2 (ZE)		eP	06 52	05.8 (Z)		
	iP	C 21 39	34.3 (Z)		iP	C 06 56	55.4 (Z)		T:00.7 A:05.0
	iS	40	07.7 (ZNE)		i	57	08.6 (Z)		
	eP	23 31	37.8 (Z)		eP	07 18	28.6 (ZZ')		
	iS	32	19.8 (NE)		i		33.1 (Z)		
6	eP	00 04	26.5 (Z)		e	22	50.1 (N')		
	iS		49.0 (N)		i	27	04.1 (Z'N'E')		
	eP	00 08	15.0 (Z)		eP	07 37	00.1 (Z)		
	eP	00 44	16.2 (Z)		iS		12.1 (ZNE)		
	i		47.0 (N)		eP	07 56	52.6 (Z)		
	eP	04 51	48.6 (Z)		iS	57	36.7 (NE)		
	eS	52	24.8 (N)		eP	09 25	46.6 (Z)		
	eiP	09 03	43.9 (Z)		iS	26	35.3 (N)		
	iP	D 12 25	43.6 (Z)		iP	D 10 48	41.1 (Z)		
	iS		58.3 (ZNE)		iS	49	24.1 (ZNE)		
	iP	C 20 13	19.2 (Z)		iP	C 15 01	52.4 (Z)		
	iS		33.7 (NE)		iS	02	14.2 (Z)		
	iP	C 21 07	56.9 (Z)		iP	C 16 32	31.0 (Z)		
	iS	09	41.7 (ZNE)		iS	33	01.4 (ZNE)		
	eP	22 14	13.3 (Z)		eiP	16 36	17.4 (Z)		
7	eP	00 03	16.3 (Z)		iS		32.2 (N)		
	iS	04	00.6 (ZNE)	9	eP	01 18	44.0 (Z)		
	eP	03 36	09.8 (Z)		iS	19	52.2 (ZE)		
	e(S)	41	46.0 (N'E')		eiP	02 37	32.5 (Z)		T:01.0 A:05.0
	e	44	06.0 (Z)		i		52.5 (Z)		T:01.0 A:25.8
	eP	04 02	47.0 (Z)		i	39	53.5 (Z)		
	iP	D 07 53	16.0 (Z)		iP	D 03 45	44.5 (Z)		
	iS		43.3 (NE)		iS		48.8 (ZNE)		
	iP	D 08 37	34.3 (Z)		iP	D 08 09	26.9 (Z)		
	eP	09 40	48.9 (Z)		iS		38.9 (N'E')		
	iS	42	03.2 (E)		iP	C 10 56	50.6 (Z)		
	eP	10 41	34.0 (Z)		iS	57	22.3 (NE)		
	iP	D 12 45	55.0 (Z)		iP	D 11 18	51.3 (Z)		
	iS	46	29.7 (ZNE)		iS	19	30.5 (ZNE)		
	iP	D 14 56	45.8 (Z)		eP	18 39	09.2 (Z)		
	iS	57	04.8 (ZNE)	10	iP	C 02 12	32.0 (Z)		
					iS		59.2 (NE)		



10	eiP	02 46	05.2 (Z)	13	iP	D 08 56	46.5 (Z)
	eP	02 53	56.2 (Z)		iS		59.8 (ZNE)
	iS		54 03.0 (ZNE)		iP	C 09 15	11.4 (Z)
	eP	04 14	06.3 (Z)		iS		39.9 (ZNE)
	eS		15 01.6 (N)		eP	10 59	12.2 (Z)
	eiP	05 10	46.6 (Z)		iS		25.7 (ZNE)
	iS		11 14.9 (E)		eP	19 38	02.3 (Z)
	eP	06 39	22.6 (Z)		i		39 18.8 (ZN)
	iS		38.9 (ZNE)	14	iP	D 03 27	27.8 (Z)
	eP	07 14	30.1 (Z)		iS		38.8 (ZNE)
	iS		49.9 (N)		eP	05 47	23.7 (Z)
	iP	D 07 48	23.6 (Z)		i		37.9 (Z)
	iP	C 13 09	45.7 (Z)		iP	C 05 47	54.1 (Z)
	iS		10 15.7 (ZNE)		i		48 05.7 (E)
	iP	C 15 42	16.7 (Z)		i		29.7 (Z)
	iS		32.4 (Z)		iS		43.8 (ZE)
	iP	D 19 01	24.8 (Z)		eP	08 57	05.1 (Z)
	iS		40.3 (N'E')		iS		44.4 (NE)
11	eP	02 58	23.0 (Z)		iP	C 10 19	31.2 (Z)
	iS		36.5 (ZNE)		i		56.6 (E)
	iP	D 04 20	23.1 (Z)		iS		20 08.2 (NE)
	iS		50.7 (ZNE)		iP	D 16 20	45.3 (Z)
	iP	C 07 30	36.4 (Z)		i(S)		22 25.0 (ZN)
	iS		40.1 (ZNE)		i		23 23.7 (Z)
	eP	07 36	33.5 (Z)		iP	C 21 08	55.6 (Z)
	iS		38.7 (ZNE)		eS		09 24.5 (Z)
	eP	12 34	20.9 (Z)	15	iP	C 01 58	10.0 (Z)
	iP	C 13 20	23.2 (Z)		iS		25.6 (N)
	iS		21 11.7 (N)		eP	06 10	38.1 (Z)
	iP	C 16 59	54.8 (Z)		eS		12 00.1 (Z)
	i(S)		17 00 10.3 (NE)		eP	07 40	12.0 (Z)
	i(S)		27.3 (E)		iS		32.1 (NE)
	eiP	21 21	16.7 (Z)		iP	C 07 54	00.4 (Z)
	iS		46.0 (ZE)		iS		45.6 (N)
	iP	D 23 27	15.9 (Z)		iP	D 16 08	45.5 (Z)
	iS		42.2 (ZNE)		iS		09 15.0 (NE)
12	eP	05 22	44.1 (Z)		iP	D 16 18	27.7 (Z)
	iS		56.6 (ZNE)		iS		50.5 (ZE)
	eP	05 30	18.4 (Z)		iP	C 16 31	53.2 (Z)
	iS		27.6 (ZNE)		i(S)		32 08.8 (E)
	iP	C 08 50	10.1 (Z)		iP	D 17 58	32.7 (Z)
	iS		49.1 (E)		eP		18 41 30.3 (ZZ')
	eiP	10 50	14.0 (Z)		e(S)		44 52.3 (N')
	e	11 01	12.2 (E')		i		48 20.3 (Z')
	e(L)		20 22.2 (Z')		iP	C 19 30	25.7 (ZZ')
	iP	D 11 23	36.0 (Z)		iS		42.3 (Z'E')
	iS		39.4 (ZNE)		iP	C 20 40	54.6 (Z)
	eP	18 08	14.8 (Z)		i(S)		41 10.3 (E)
	iS		09 12.8 (E)		i(S)		27.1 (E)
	eP	18 18	58.8 (Z)		eP	21 34	45.3 (Z)
	iS		20 00.3 (N)		iS		36 57.3 (EE')
	iP	C 18 44	19.3 (Z)		i(S)		37 20.3 (Z'N')
	iS		47.3 (ZNE)		eP	23 10	01.7 (Z)
13	eP	00 40	52.2 (Z)		iP	C 23 31	56.6 (Z)
	iS		56.5 (ZNE)		iS		32 19.6 (ZNE)

15	iP	C 23	33	29.1	(Z)	18	eiP	07	19	53.6	(Z)
	iS		34	32.4	(ZNE)		eP	12	23	37.6	(Z)
16	eP	00	39	25.2	(Z)		iP	C 16	36	33.2	(Z)
	iS		42	40.9	(E)		iS			52.2	(ZE)
	eP	01	31	43.0	(Z)		iP	D 18	41	16.2	(Z)
	iS		32	00.8	(ZE)		iS			40.7	(ZNE)
	eP	03	49	27.6	(Z)		eP	22	31	00.8	(Z)
	iS			51.3	(ZNE)		iS			15.5	(ZNE)
	eiP	04	11	03.6	(Z)		eP	23	44	51.0	(Z)
	iS			27.1	(ZNE)		iS		45	34.0	(ZNE)
	iP	C 04	22	20.1	(Z)	19	eiP	01	41	04.0	(Z)
	iS			40.1	(ZNE)		iS			48.0	(ZNE)
	eP	05	24	43.1	(Z)		eP	02	08	45.3	(Z)
	iS		27	54.1	(E)		e	10	17.5	(Z)	
	eP	08	59	45.9	(Z)		e	11	28.5	(ZN)	
	iS	09	00	20.7	(ZE)		eP	04	08	13.7	(Z)
	eP	09	26	53.0	(Z)		e(P)	05	18	31.1	(Z)
	iS		27	08.6	(N)		eP	06	31	45.1	(Z)
	eiP	09	37	13.6	(Z)		eiP	07	02	52.1	(Z)
	iS			28.9	(ZNE)		iP	D 07	40	09.1	(Z)
	iP	D 14	04	00.3	(Z)		iS			31.3	(ZN)
	iS			29.1	(E)		eP	10	42	22.6	(Z)
	iP	C 16	28	27.7	(Z)		iS		43	30.1	(ZNE)
	iS		29	08.2	(N)		eP	12	26	32.1	(Z)
	eiP	19	37	42.3	(Z)		e	13	09	32.1	(Z')
	iS		38	11.3	(N)		e(L)	14	26.1	(Z')	
17	iP	D 01	53	43.5	(Z)		eP	15	06	16.2	(Z)
	iS		55	06.5	(ZN)		iS			35.9	(ZNE)
	eP	02	03	42.3	(Z)		iP	15	09	13.7	(Z)
	iS		04	56.7	(E)		iS			41.2	(ZNE)
	eP	05	08	12.1	(Z)		eP	16	41	03.9	(Z)
	e		09	21.1	(Z)		iS		42	03.1	(ZNE)
	e		15	28.0	(Z'N')		eP	17	40	07.2	(Z)
	e		19	48.0	(N')		e		43	40.2	(Z')
	iP	C 05	26	10.5	(Z)		e		55	52.2	(N'E')
	iS			32.0	(ZE)		i	18	03	26.2	(N'E')
	eP	05	36	55.1	(Z)		e		14	04.2	(N'E')
	eP	05	41	03.1	(Z)		eP	18	54	53.5	(Z)
	iS			17.1	(ZNE)		iP	D 19	42	23.0	(Z)
	eP	05	46	57.4	(Z)		iS		43	03.7	(Z)
	iP	C 07	50	58.1	(Z)		iP	D 21	10	07.2	(Z)
	iS		52	28.1	(NE)		iS			28.5	(ZNE)
	eiP	09	38	40.1	(Z)	20	eP	00	08	42.3	(Z)
	iP	D 18	32	37.0	(Z)		eiP	00	17	11.5	(Z)
	iS		33	39.7	(ZEZ'E')		iP	C 02	36	51.0	(Z)
	eP	20	23	18.8	(Z)		eP	05	29	35.8	(Z)
18	eP	00	01	40.8	(Z)		eP	09	06	08.4	(Z)
	iP	C 00	57	05.0	(Z)		eP	09	08	55.1	(Z)
	iS			21.0	(ZNE)		iS		09	09.0	(NE)
	iP	C 01	36	24.5	(Z)		iP	D 09	17	13.8	(Z)
	iS			41.5	(ZNEN')		eP	09	53	15.4	(Z)
	e(P)	05	26	25.9	(Z)		iP	D 10	52	01.4	(Z)
	eP	05	41	55.4	(Z)		iS			15.1	(ZNE)
	eP	05	49	21.6	(Z)						



20 iP C 17 04 00.5 (Z)  
 iS 18.6 (Z)  
 iP C 20 31 13.8 (Z)  
 iS 29.0 (Z)  
 21 iP C 01 45 17.5 (Z)  
 iS 36.1 (N)  
 eP 03 18 23.2 (Z)  
 iS 42.0 (Z)  
 eP 03 55 48.0 (Z)  
 iS 56 07.9 (ZNE)  
 eP C 4 58 20.6 (Z)  
 i 59 26.1 (N)  
 eP 05 06 39.3 (Z)  
 iS 07 00.6 (ZNE)  
 eP 05 33 41.6 (Z)  
 iS 59.3 (Z)  
 eP 06 19 12.1 (Z)  
 iS 30.6 (ZNE)  
 iP D 06 36 20.9 (Z)  
 eiP 06 38 05.1 (Z)  
 iP C 07 43 32.6 (Z)  
 iS 42.1 (ZNE)  
 eP 09 02 59.3 (Z)  
 iP C 12 05 53.8 (Z)  
 iS 06 35.7 (N')  
 eP 15 38 12.7 (Z)  
 i 33.6 (Z)  
 e 39 28.2 (N'E')  
 i 40 22.2 (Z')  
 iP C 15 43 28.6 (Z)  
 iS 44 11.8 (ZNE)  
 iP C 20 11 49.4 (Z)  
 iS 12 11.8 (ZNE)  
 iP C 22 51 45.5 (Z)  
 iS 53 10.3 (N)  
 22 eP 01 27 00.0 (Z)  
 iS 40.3 (ZNE)  
 eP 01 39 44.0 (Z)  
 iS 40 27.5 (ZNE)  
 eP 03 42 16.8 (Z)  
 eS 42.2 (Z)  
 iP D 07 50 03.8 (Z)  
 iS 49.6 (E)  
 iP D 10 42 38.6 (Z)  
 eP 15 03 07.4 (Z)  
 iP D 16 37 20.2 (Z)  
 iS 35.4 (ZE)  
 23 eP 03 35 35.0 (Z)  
 iS 53.3 (ZNE)  
 iP C 06 03 11.3 (Z)  
 iS 43.4 (E)  
 eP 06 58 48.1 (Z)  
 iS 07 00 21.8 (ZE)  
 iP D 07 07 52.1 (Z)  
 iS 08 08.4 (ZNE)

T:01.0 A:09.5

23 eiP 08 41 10.8 (Z)  
 eP 08 54 58.1 (Z)  
 e(S) 09 03 52.1 (E')  
 e 08 26.1 (Z'E')  
 e 13 54.1 (Z'E')  
 e(L) 35 54.1 (Z')  
 iP C 12 57 24.9 (Z)  
 iS 41.0 (E)  
 iP C 15 05 25.7 (Z)  
 iS 52.7 (ZNE)  
 iP C 16 33 37.0 (Z)  
 iS 52.2 (ZNE)  
 iP C 17 42 36.7 (Z)  
 iS 50.7 (ZNE)  
 iP D 22 44 45.6 (Z)  
 i 46 11.1 (Z)  
 24 iP 02 35 49.5 (Z)  
 iS 57.3 (ZNE)  
 eP 04 31 41.6 (Z)  
 iS 32 20.1 (ZE)  
 iP C 07 03 33.3 (Z)  
 iS 38.6 (ZNE)  
 eP 07 09 56.6 (Z)  
 iS 10 32.1 (Z)  
 eP 09 21 31.1 (Z)  
 eP 09 58 22.6 (Z)  
 iS 43.3 (N)  
 iP C 17 18 05.9 (Z)  
 iS 33.0 (ZNE)  
 iP D 17 58 18.3 (ZZ')  
 i(S) 30.2 (N')  
 eP 22 43 57.7 (Z)  
 i 44 57.2 (Z)  
 25 iP C 00 59 54.5 (Z)  
 iS 01 00 12.0 (ZNE)  
 eP 02 22 36.7 (Z)  
 iS 46.7 (ZNE)  
 eP 04 55 05.6 (Z)  
 i 57 52.1 (Z)  
 iP C 07 55 41.1 (Z)  
 iS 46.3 (ZNE)  
 eP 08 35 41.6 (Z)  
 iP D 11 36 21.2 (Z)  
 iS 40.4 (ZNE)  
 eP 20 17 52.2 (Z)  
 iS 18 05.5 (ZNE)  
 iP D 20 19 39.1 (Z)  
 eiP C 22 00 55.1 (Z)  
 26 eP 00 28 27.0 (Z)  
 eiP 03 14 09.2 (Z)  
 eP 03 22 14.5 (Z)  
 eiP C 03 58 34.0 (Z)  
 eiP C 05 28 39.1 (Z)

26 iP C 06 34 02.2 (Z)  
 iS 30.8 (NE)  
 eP 07 37 39.1 (Z)  
 i 43.1 (Z)  
 iS 38 55.1 (Z)  
 i(s) 39 00.1 (ZE)  
 eiP C 07 59 28.6 (Z)  
 iS 51.3 (ZNE)  
 eP 11 13 26.6 (Z)  
 eP 12 24 29.1 (Z)  
 iS 25 56.1 (NE)  
 eP 18 14 08.2 (Z)  
 e(P) 18 20 26.2 (Z)  
 eiP 20 05 21.7 (Z)  
 iP C 20 56 11.4 (Z)  
 iS 30.4 (ZNE)  
 iP C 20 58 52.4 (Z)  
 iS 59 16.9 (ZNE)  
 27 iP D 02 55 41.5 (Z)  
 iS 52.9 (ZNE)  
 eiP 05 16 35.1 (Z)  
 i 55.1 (ZZ')  
 i 17 29.0 (Z)  
 i 19 09.6 (NE)  
 i 20 23.1 (N)  
 iP D 05 47 54.1 (Z)  
 iS 48 08.1 (ZNE)  
 eP 08 16 58.1 (Z)  
 iS 17 03.8 (NE)  
 eP 08 23 44.3 (Z)  
 iP C 09 44 15.4 (Z)  
 iS 19.9 (ZNE)  
 eP 10 36 29.1 (Z)  
 iS 52.1 (Z)  
 iP C 11 23 44.1 (Z)  
 iS 56.6 (ZNE)  
 iP C 11 54 16.9 (Z)  
 iS 21.6 (ZE)  
 iP C 16 37 53.0 (Z)  
 i(S) 38 10.4 (NE)  
 eP 18 09 31.7 (Z)  
 iS 49.0 (ZNE)  
 eiP 19 20 58.0 (Z)  
 i 21 34.2 (Z)  
 28 iP C 01 09 34.7 (Z)  
 iS 58.4 (ZNE)  
 eP 02 56 38.5 (Z)  
 i 57 30.5 (Z)  
 eP 03 28 26.5 (Z)  
 e 30 57.8 (Z)  
 eP 04 32 02.5 (Z)  
 eS 42.0 (Z)  
 iP C 13 57 07.6 (Z)  
 iS 30.9 (ZNE)

T:01.0 A:07.5

T:00.9 A:04.5

T:01.2 A:06.5

28 iP 15 43 34.8 (Z)  
 iS 38.7 (ZNE)  
 iP 16 33 48.2 (Z)  
 iS 51.8 (NE')  
 iP D 16 43 39.7 (Z)  
 iS 44 05.7 (N)  
 29 eP 01 30 27.0 (Z)  
 eP 02 25 24.3 (Z)  
 iS 26 36.0 (NE)  
 eP 03 01 19.5 (Z)  
 i 45.7 (Z)  
 e 03 05.0 (Z)  
 iP C 03 36 32.5 (Z)  
 iS 48.3 (ZNE)  
 eiP D 05 42 28.1 (Z)  
 i 46.0 (ZNE)  
 iS 43 11.8 (ZNE)  
 eP 05 51 03.9 (Z)  
 iS 42.6 (N)  
 eP 06 38 19.1 (Z)  
 eP 08 18 36.6 (Z)  
 iP D 10 02 10.4 (Z)  
 iS 34.6 (NE)  
 eP 11 54 21.8 (Z)  
 iS 55 02.8 (Z)  
 iP C 15 03 57.2 (Z)  
 iS 04 13.2 (ZE)  
 eP 15 14 45.7 (Z)  
 iP C 16 36 27.2 (Z)  
 iS 42.8 (NE)  
 eP 19 34 16.4 (Z)  
 eP 22 11 18.8 (Z)  
 iS 12 52.7 (NE)  
 iP D 23 47 04.7 (Z)  
 iS 17.4 (ZNE)  
 30 iP C 00 23 53.0 (Z)  
 iS 24 25.7 (Z)  
 eP 05 57 42.4 (Z)  
 iP C 06 18 49.3 (Z)  
 iS 19 10.1 (ZNE)  
 eiP C 07 07 52.8 (Z)  
 eP 07 37 45.6 (Z)  
 i 48 34.9 (N'E')  
 e 08 06 12.1 (N')  
 eP 11 51 48.4 (Z)  
 iS 52 03.1 (ZNE)  
 iP D 14 24 37.2 (Z)  
 iS 25 07.2 (E)  
 eP 17 44 12.5 (Z)  
 eP 18 08 11.4 (Z)  
 i 17.7 (Z)  
 i(S) 10 50.2 (NE')  
 i 11 56.2 (N'E')

T:01.0 A:03.0



- 7 -

30 1P D 20 00 45.5 (Z)  
1S 01 03.3 (ZNE)  
1P D 20 36 24.7 (Z)  
1S 28.7 (E)  
1P D 23 24 40.8 (Z)  
1S 25 15.8 (NE)

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O: compresión

D: dilatación

Universidad Nacional de San Agustín  
Instituto Geofísico  
Sección de Sismología  
Casilla 23  
Arequipa, Perú

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, 1967

1 eP	00 01 44.5 (Z)		3 iP	C 07 35 58.8 (Z)
eP	01 10 08.4 (Z)		iS	36 03.2 (ZNE)
eP	03 01 17.5 (Z)		eP	08 04 44.6 (Z)
iS	43.6 (N)		eP	08 21 43.6 (Z)
eP	04 54 32.5 (Z)		iS	22 10.1 (ZNE)
iS	37.7 (ZNE)		eiP	09 14 30.4 (Z)
eiP	05 14 45.6 (Z)	T:00.9 A:01.0	iS	48.8 (ZNE)
eiP	07 38 21.4 (Z)	T:01.0 A:01.0	eiP	D 09 53 43.0 (Z)
i	42.1 (Z)	T:01.4 A:01.9	eP	12 48 42.9 (Z)
eP	10 21 15.7 (Z)		iS	49 18.9 (N)
eiP	14 16 00.2 (Z)		eP	13 52 54.2 (Z)
i	18 19.4 (Z')		i	35 48.7 (Z)
i	19 10.2 (ZZ'N'E')		eP	20 29 21.7 (Z)
i	30 04.2 (Z')		i	41.4 (Z)
e	35 24.2 (N'E')		iS	58.7 (ZN)
e	51 00.2 (N'E')		4 e(P)	02 58 26.4 (Z)
iP	C 15 17 06.1 (Z)		iP	C 05 26 19.3 (Z)
iS	30.2 (ZNE)		e(S)	27 01.3 (N)
iP	D 18 35 56.2 (Z)		iP	C 07 33 17.2 (Z)
iS	36 10.6 (ZNE)		eP	09 00 57.1 (Z)
iP	C 21 47 27.0 (Z)		e	10 48.9 (N')
iS	54.7 (ZNE)		e	21 54.1 (N')
2 eP	00 40 32.2 (Z)		eP	14 02 48.2 (Z)
i	48.8 (Z)	T:01.8 A:08.0	e	10 18.2 (Z'N'E')
e	48 30.0 (E')		eiP	15 55 35.2 (Z)
e(L)	58 07.2 (Z')		iS	56 28.9 (ZNE)
eP	03 21 22.5 (Z)		iP	C 18 50 23.4 (Z)
iS	58.2 (N)		i(S)	26.2 (Z)
eP	03 35 28.8 (Z)		iP	C 20 27 06.2 (Z)
iS	36 02.0 (N)		iS	21.8 (ZE)
iP	D 03 45 08.0 (Z)		eP	21 26 26.9 (Z)
iP	C 03 53 47.0 (Z)		i(S)	27 15.1 (NE)
iS	54 21.5 (ZNE)		5 eP	02 43 00.9 (Z)
eP	05 12 48.3 (Z)		iS	07.1 (ZN)
iS	14 10.1 (N)		eP	03 51 15.0 (Z)
eP	06 44 35.8 (Z)		i	45.8 (ZE)
iS	45 14.5 (ZNE)		e	54 19.1 (E)
iP	C 10 20 09.9 (Z)		eP	04 19 36.1 (Z)
iS	27.8 (ZNE)		iS	53.8 (NE)
e(P)	23 51 07.1 (Z)		iP	C 06 30 38.0 (Z)
3 eP	04 07 36.8 (Z)		e(S)	31 14.7 (NE)
iS	52.4 (ZNE)		eiP	D 12 52 51.5 (Z)
iP	D 05 09 34.9 (Z)		iS	53 15.0 (Z)
iS	10 19.5 (ZNE)		eP	18 45 56.8 (Z)
iP	D 06 55 05.6 (Z)		e	19 06 48.2 (Z'N')
iS	18.1 (ZNE)			



5	iP	D 21 55	22.5 (Z)		9	iP	C 02 17	55.0 (Z)	
	iS		41.1 (N'E')			eiP	03 50	08.2 (Z)	
6	eP	01 25	30.9 (Z)			iS		42.4 (NE)	
	iS	26	28.8 (NE)			iP	D 04 13	23.2 (Z)	
	iP	C 02 36	39.9 (Z)			iS		27.4 (ZE)	
	iS		55.0 (ZNE)			eP	04 46	42.1 (Z)	
	iP	D 02 44	33.8 (Z)	T:01.0 A:08.0		iP	C 09 26	00.4 (Z)	
	i	47	18.0 (Z)			iS		13.3 (N'E')	
	e	03 04	42.0 (N')			e	11 10	48.5 (Z')	
	iP	D 03 06	50.9 (Z)	T:01.0 A:01.9		e	45	32.1 (Z')	
	eP	04 34	32.0 (Z)			e(P)	12 26	29.1 (Z)	
	iS	36	05.6 (E)			iS		42.1 (ZNE)	
	eP	05 32	46.4 (Z)			eP	16 39	08.4 (Z)	
	eP	06 03	00.1 (Z)			eS		51.0 (ZNE)	
	eP	17 37	50.4 (Z)			iP	D 19 44	09.2 (Z)	
	eS	38	07.7 (ZNE)			eS		18.8 (ZNE)	
	iP	C 21 22	43.6 (Z)		10	eP	02 07	39.0 (Z)	
	i(S)	23	10.3 (ZNE)			eP	03 45	24.0 (Z)	
	iS		13.9 (NE)			i		49.0 (Z)	
	e	23 27	16.3 (Z')			e(S)	48	45.5 (ZN)	
7	iP	C 01 07	21.2 (Z)			eP	08 15	53.1 (Z)	
	iS	08	24.8 (NE)			iP	C 11 26	28.4 (Z)	
	eP	04 29	35.0 (Z)			i		50.1 (Z)	
	eS	31	08.0 (E)			iS		54.1 (ZNE)	
	eP	04 38	10.1 (Z)			iP	C 12 18	36.8 (ZZ')	T:01.1 A:11.5
	iS		52.1 (N)			e	28	19.3 (Z'N'E')	
	iP	C 05 04	31.3 (Z)			e	37	24.1 (N'E')	
	iS		35.5 (ZNE)			e(P)	15 31	06.4 (Z)	
	eP	05 26	23.1 (Z)			iS		17.7 (ZNE)	
	eP	08 22	31.6 (Z)			eiP	15 41	52.2 (Z)	
	eP	10 58	51.1 (Z)			eS	42	25.2 (ZNE)	
	iS	59	09.6 (ZNE)			eP	18 33	03.4 (Z)	
	eP	12 33	30.3 (Z)			iS		37.6 (ZNE)	
	eP	16 26	34.7 (Z)			iP	C 20 00	30.4 (Z)	
	eS	27	19.8 (N)			iS	01	07.7 (ZNE)	
	iP	C 18 33	26.3 (Z)			eP	21 17	49.0 (Z)	
	iS	34	15.2 (ZE)			eS	19	47.0 (ZN)	
	eP	20 44	33.8 (Z)			iP	D 22 48	09.6 (Z)	
	iS	45	19.8 (ZNE)			eS		38.2 (ZNE)	
8	iP	D 03 24	03.0 (Z)			eiP	23 11	04.5 (ZZ')	T:01.2 A:24.0
	iS		23.5 (N)			e	26	43.3 (E')	
	eP	04 06	01.3 (Z)			e	33	30.3 (N'E')	T:40.0 A:10.0
	iS		18.1 (ZNE)			e	39	28.3 (E')	
	eiP	D 12 15	06.2 (Z)			iP	C 23 47	05.3 (Z)	
	iS		26.2 (ZE)			iS		28.2 (ZE)	
	eiP	C 18 46	35.1 (Z)		11	eP	00 12	00.0 (Z)	
	eS		57.2 (E)			iP	C 04 28	11.3 (Z)	T:00.8 A:13.0
	iP	C 20 19	13.4 (Z)			i		18.2 (E)	
	iS		28.7 (Z)			i	29	18.1 (Z')	
	eP	23 12	30.3 (Z)			eiP	07 10	07.0 (Z)	
	iS	13	16.3 (ZE)			iS	11	42.2 (N)	
9	eP	00 21	09.2 (Z)			iP	C 10 05	08.3 (Z)	
	i(S)		47.2 (ZNE)			iS		19.3 (ZNE)	
	eiP	01 24	05.4 (Z)			eP	11 21	18.6 (Z)	
						i		30.4 (Z)	

11 iP D 11 35 51.9 (Z)  
i(S) 36 10.1 (Z')

iP D 15 15 24.5 (Z)  
iS 44.3 (NE)

eiP D 15 24 23.9 (Z)

iP C 16 13 10.3 (Z)  
iS 40.0 (E)

iP D 18 41 34.4 (Z)  
iS 51.2 (ZNE)

eP 20 01 45.5 (Z)  
eS 02 36.2 (E)

iP 20 29 48.1 (Z)  
iS 30 11.2 (NE)

eP 20 38 01.7 (Z)  
iS 20.9 (ZNE)

eiP C 21 09 33.8 (Z)

iP C 21 19 38.4 (Z)  
eS 20 13.3 (Z)

12 eP 02 47 43.6 (Z)  
eS 49 03.5 (ZN)

eP 04 41 03.5 (Z)  
iS 42 01.9 (ZNE)

iP D 04 47 18.9 (Z)

eP 05 26 42.6 (Z)  
iS 27 55.1 (ZN)

eiP 06 38 18.7 (Z)

eiP 07 05 43.1 (Z)  
iS 06 06.3 (ZNE)

eP 07 49 30.6 (Z)  
iS 46.4 (ZNE)

iP D 16 08 38.2 (Z)

e(P) 16 46 52.2 (Z)

eiP 21 51 16.3 (Z)  
iS 43.9 (ZNE)

iP C 22 55 18.9 (Z)  
iS 38.2 (ZNE)

eP 22 57 34.3 (Z)  
eS 58 21.5 (ZNE)

13 eiP C 05 12 48.0 (Z)  
eS 13 04.9 (N)

eP 05 38 04.4 (Z)

eiP D 05 49 06.2 (Z)  
iS 11.3 (ZNE)

eP 08 43 40.1 (Z)

iP C 09 33 55.2 (Z)  
iS 34 00.6 (NE)

iP D 15 15 51.1 (Z)  
iS 16 11.0 (ZNE)

iP C 16 41 28.3 (Z)  
iS 43.4 (ZNE)

14 eiP C 03 22 39.0 (Z)  
i 54.0 (NE)  
iS 24 04.0 (NE)

T:02.0 A:01.8

14 iP C 03 31 10.9 (Z)  
iS 27.5 (ZN)

eP 04 28 32.7 (Z)  
eS 29 27.6 (NE)

iP C 04 43 50.3 (Z)  
iS 44 49.1 (ZNE)

iP D 10 42 21.2 (Z)  
iS 43 21.1 (NE)

eiP 15 02 11.2 (Z)  
iS 03 36.1 (NE)

iP C 16 39 41.1 (Z)  
iS 56.7 (NE)

eP 18 51 51.3 (Z)  
eS 52 09.7 (NE)

15 iP D 02 33 30.2 (Z)  
eS 48.9 (E)

iP D 03 45 20.3 (Z)  
iS 28.0 (ZNE)

eP 04 16 20.9 (Z)  
iS 25.3 (NE)

eP 08 15 45.3 (Z)  
i(S) 16 53.1 (NE)

eiP 12 40 27.4 (Z)  
eS 57.0 (N)

i(P) 20 00 51.2 (Z)

16 iP C 03 22 38.1 (Z)  
i 42.2 (Z)

iP 03 35 02.1 (Z)  
iS 15.0 (NE)

eP 06 37 10.0 (Z)  
eS 38 04.1 (N)

eP 11 48 41.6 (Z)  
iS 50 17.1 (NE)

i(P) C 15 04 50.3 (Z)

iP 15 42 24.4 (Z)  
iS 46.7 (ZN)

iP C 16 37 14.7 (Z)  
eS 30.2 (ZNE)

iP 22 31 17.2 (Z)  
iS 32 28.4 (ZNE)

iP C 22 52 23.1 (Z)  
iS 50.8 (ZNE)

17 eP 01 39 45.2 (Z)  
eS 41 27.5 (N)

iP D 02 34 44.1 (Z)  
iS 35 02.7 (ZNE)

eP 04 30 50.6 (Z)  
iS 31 29.0 (ZNE)

eP 06 14 25.9 (Z)  
iS 15 22.0 (ZN)  
i(S) 34.1 (ZN)

eiP C 06 27 48.1 (Z)  
iS 28 20.9 (ZNE)

eP 07 54 11.6 (Z)  
iS 32.1 (ZNE)

T:01.0 A:04.0  
T:01.0 A:17.0



17	iP	D 16 46	31.2 (Z)		21	iP	D 03 05	55.0 (Z)	
	iS		50.2 (ZNE)			iS	06	59.5 (Z)	
	iP	D 19 39	44.7 (Z)			iP	C 03 38	13.5 (Z)	
	iS		57.7 (ZNE)			iS	39	12.0 (ZE)	
18	iP	C 04 36	01.1 (Z)			eP	03 59	45.6 (Z)	
	eS		28.9 (N)			iS	04 00	40.3 (Z)	
	eP	07 41	01.1 (Z)			eP	04 03	40.9 (Z)	
	iS		20.1 (N)			iS	04	37.1 (ZNE)	
	eP	08 18	56.7 (Z)			eP	04 50	08.1 (Z)	
	i(S)	20	19.1 (NE)			iS	51	15.6 (N)	
	eP	10 41	34.3 (Z)			eP	05 03	44.6 (Z)	
	eiP	D 11 11	32.0 (Z)			iS	04	41.9 (ZNE)	
	iP	14 24	03.2 (Z)			eP	05 08	49.1 (Z)	
	iP	C 16 32	20.8 (Z)			iS	09	46.1 (ZNE)	
	eS		41.2 (N)			iP	C 05 18	38.6 (ZZ')	
	eiP	C 17 35	53.4 (Z)			iS	19	10.1 (Z'N'E')	
	eP	19 28	03.0 (Z)			i(P)	C 05 31	12.8 (Z)	
	eS		45.2 (N)			i(S)	33	11.6 (N)	
	eP	20 23	50.2 (Z)			eiP	06 10	06.1 (Z)	
	eS	24	30.2 (N)			iS	11	05.8 (NE)	
	eP	22 44	31.3 (Z)			iP	06 52	10.6 (Z)	
	iS		55.3 (NE)			iS	53	11.3 (NE)	
19	eP	01 47	01.1 (Z)			iP	D 07 05	00.7 (Z)	
	eS	48	33.0 (NE)			iS		14.6 (ZNE)	
	eiP	04 06	02.0 (Z)			iP	07 50	55.1 (ZZ')	
	iS		20.6 (ZNE)			iS	51	08.1 (E')	
	iP	C 08 09	05.0 (Z)			eP	08 32	32.9 (Z)	
	iS		16.2 (ZNE)			iS	33	27.6 (NE)	
	eP	08 45	13.1 (Z)			eiP	09 54	05.6 (Z)	
	i(S)	47	21.1 (ZNE)			iS	55	05.5 (NE)	
	i(S)	48	31.0 (ZNE)			iP	D 12 06	56.1 (Z)	
	eiP	C 14 15	34.2 (Z)			i	07	29.9 (E)	
	i(S)	16	14.0 (ZE)			iP	D 11 26	09.1 (Z)	
	i(S)		23.2 (N')			iS	27	12.6 (N)	
	iP	C 16 33	03.8 (Z)			eiP	C 11 42	28.4 (ZZ')	
	iS		19.2 (ZNE)			i	44	19.1 (Z)	
	eiP	22 06	43.3 (Z)			e	46	40.1 (E')	
	eiP	D 00 13	24.9 (Z)			i	52	06.1 (Z'N')	
	iP	C 01 56	11.1 (Z)			eiP	13 52	08.0 (Z)	
	iS		35.0 (ZNE)			iS		25.2 (N)	
	eP	11 54	26.3 (Z)			iP	D 16 35	03.2 (Z)	
	iP	C 17 42	03.0 (Z)			iS		18.2 (NE)	
	iS	43	43.2 (ZNE)			iP	C 16 36	27.9 (Z)	
	eiP	19 56	49.1 (Z)			iS	37	28.9 (ZE)	
	iS	57	57.2 (ZNE)			eP	16 56	42.8 (Z)	
	iP	C 21 14	42.2 (Z)			iS	57	37.7 (ZN)	
	iS		47.3 (ZNE)			iP	C 17 09	21.7 (Z)	
	iP	D 22 19	39.1 (Z)			iS		43.7 (ZE)	
	iS		55.8 (ZNE)			e(P)	19 10	23.7 (Z)	
	eP	22 23	37.3 (Z)			eP	21 13	27.3 (Z)	
	e(P)	22 49	27.3 (Z)			i(S)	16	03.3 (ZE)	
	e	51	52.3 (Z)			iP	C 22 54	04.6 (Z)	
	i	52	40.8 (Z)			iS	55	06.3 (E)	
21	iP	C 02 26	44.5 (Z)		22	iP	C 01 24	24.8 (Z)	
						iS	25	26.2 (ZNE)	







29 eP 07 47 12.1 (Z)  
 iP C 07 52 24.0 (Z)  
 iS 36.4 (ZNE)  
 eP 08 16 45.9 (Z)  
 eP 09 50 39.6 (Z)  
 iS 51 44.9 (NN')  
 iP C 16 33 54.7 (Z)  
 iS 34 10.3 (ZE)  
 iP D 18 39 59.9 (Z)  
 iS 40 10.0 (Z)  
 eP 20 43 03.2 (Z)  
 e 53 40.2 (E')  
 e(L) 21 13 24.2 (E')  
 30 e(P) 00 27 44.0 (Z)  
 iP C 00 48 07.2 (Z)  
 iS 37.3 (ZNE)  
 eIP 02 16 31.8 (Z)  
 i(S) 18 13.4 (ZE)  
 iP D 05 17 54.5 (Z)  
 iS 18 13.9 (ZNE)  
 iP D 13 06 40.0 (Z)  
 iS 07 53.4 (ZNE)  
 iP D 13 59 21.0 (Z)  
 iS 32.9 (ZNE)  
 iP D 19 15 36.2 (Z)  
 iS 16 16.7 (ZE)  
 iP D 20 06 44.8 (Z)  
 i(S) 07 09.5 (Z)  
 iP C 21 51 13.3 (Z)  
 iS 21.3 (ZNE)  
 31 iP C 00 41 26.9 (Z)  
 eS 42 05.2 (ZNE)  
 iP D 01 17 22.2 (Z)  
 iS 38.2 (ZNE)  
 iP C 03 43 23.9 (Z)  
 iS 41.9 (ZNE)  
 eP 05 50 54.9 (Z)  
 eS 51 12.4 (ZNE)  
 iP D 07 07 28.1 (Z)  
 iS 38.7 (NE)  
 eP 08 16 58.9 (Z)  
 eS 17 50.9 (ZNE)  
 iP C 16 27 26.5 (Z)  
 iS 51.2 (ZNE)  
 eIP 17 10 22.4 (Z)  
 iS 11 18.5 (ZNE)  
 eP 18 40 54.7 (Z)  
 eS 41 44.8 (ZNE)  
 eP 18 49 44.0 (Z)  
 iS 50 43.5 (ZNE)  
 iP C 21 29 24.6 (Z)  
 iS 50.3 (ZNE)  
 iP D 22 28 53.5 (Z)

C: compresión

D: dilatación

Universidad Nacional de San Agustín  
 Instituto Geofísico  
 Sección de Sismología  
 Casilla 23  
 Arequipa, Perú