

19 JUN 1969 1.

 Casilla 2777
 Santiago, Chile

 UNIVERSIDAD DE CHILE
 Departamento de Geofísica y Geodesia

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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

Jan.01 1969	eP 06:58:03.3 eS 12.2 Dist. 70 Km.	Jan.04 1969	eP 00:34:(24.5) e 35:46 eP 01:12:57.5 eS 13:15 Dist. 155 Km.	Jan.06 1969	iP 15:37:56 iS 06.5 Dist. 85 Km. Dilatation from W eP 15:43:01 Distant shock
	eP 07:48:57.7 eS 16 Dist. 165 Km.		iP 03:22:51.5 iS 23:08 Compression from NE Dist. 145 Km.		eP 15:58:09.7 Superimposed to precedent shock
	iP 09:22:31 eS 44.5 Dist. 115 Km.		iP 14:22:05 iS 21 Dist. 140 Km. Dilatation from N		eP 16:01:13.5 eS 26.5 Dist. 110 Km.
	eP 13:16:12.2 iS 29.2 Dist. 150 Km.		iP 23:43:54.7 iS 44:12 Dist. 155 Km. Dilatation		eP 16:48:57 eS 49:13 Dist. 140 Km.
02	eP 00:10:39.5 Distant shock	05	eP 01:52:31.3 Distant shock		iP 18:01:51.5 eS 02:(07) Dist. about 135 Km. Compression from N
	eP 11:23:52 eS 50.5 Dist. 565 Km.		eP 06:39:10.5 eS 37 Dist. 245 Km.		iP 19:58:50 iS 52.5 Local
	eP 15:39:46 iS 57.5 Dist. 95 Km.		eP 07:48:35.5 Distant shock		e(P) 20:21:47 e(S) 25:16
	eP 17:15:14.5 e 58		eP 08:31:57.5 eS 33:04 Dist. 645 Km.		eP 22:31:06.5 eS 49.8 Dist. 415 Km.
	iP 17:57:53 e 58:10 e 59:17 e(S) 18:06:12		iP 09:03:05.5 eS 20.5 Dist. 130 Km.		eP 23:05:06.7 eS 35 Dist. 265 Km.
03	eP 04:40:21 eS 41:24.5 Dist. 615 Km.		eP 10:36:18.5	07	eP 00:03:25.5 eS 33.5 Dist. 60 Km.
	eP 12:42:46.5 eS 44:23.5 Dist. 960 Km.		ePP 13:45:23.5 esSKS 52:11 eSP 56:24 eSS 14:02:48 eG 06:12 eR 21:56 Dist. 120°		eP 00:21:08 eS 23 Dist. 130 Km.
	eP 13:33:01.3 eS 20.2 Dist. 170 Km.		iP 14:50:16.5 iS 30.5 Dist. 120 Km. Dilatation		iP 02:39:58 eS 40:29.2 Dist. 270 Km. Dilatation from NW
	eP 20:34:05.5 eS 35:14.0 Dist. 665 Km.				eP 10:04:20 eS 36 Dist. 140 Km.
	iP 20:37:30.5 eS 49.5 Dist. 170 Km.				

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Jan.08 eP 03:03:18.5	Jan.12 eP 21:37:37.5	Jan.14 eP 02:23:58
1969 Distant shock	1969 eS 39:01	1969 eS 25:14
	Dist. 820 Km.	Dist. 740 Km.
eP 05:07:13.5	eP 21:54:02.5	iP 16:27:28.5
eS 58.3	eS 55:30	eS 28:03.5
Dist. 430 Km.	Dist. 870 Km.	Dist. 330 Km.
eP 09:47:49.5		Dilatation
eS 48:47	13 eP 02:03:46.5	eP 19:11:59.2
	eS 04:09.5	eS 12:13.5
eP 14:16:35.5	Dist. 210 Km.	Dist. 125 Km.
eS 17:19.5	iP 06:00:13.5	
Dist. 420 Km.	eS 43	15 eP 03:15:31.8
eP 14:59:53.5	Dist. 275 Km.	eS 44.5
eS 15:00:33		Dist. 105 Km.
Dist. 375 Km.	eP 06:37:45	eP 09:25:03.7
eP 18:03:07	eS 38:08	eS 25.5
eS 04:03	Dist. 210 Km.	Dist. 100 Km.
Dist. 540 Km.	eP 06:49:03	
eP 04:11:18.5	e(S) 43	eP 10:40:13.8
eS 59.8		eS 39
Dist. 395 Km.	eP 07:03:24	Dist. 230 Km.
	Superimposed to	
	precedent shock	eP 14:10:57.5
09 iP 14:21:01.9	eP 09:22:46.5	eS 12:14.2
iS 16.2	eS 24:01.5	Dist. 750 Km.
Dist. 125 Km.	Dist. 730 Km.	
Dilatation from S.	iP 09:26:03.5	eP 17:35:12
eP 16:16:04.5	eS 27:16	eS 44
eS 13	Dist. 700 Km.	Dist. 300 Km.
Dist. 65 Km.	eP 10:13:49	
eP 17:02:19.2	eS 15:08.5	iP 20:04:07.5
eS 03:39.5	Dist. 775 Km.	iS 10
Dist. 790 Km.		Local
eP 18:21:46.5	eP 12:56:02	Compression
eS 22:07	eS 57:19	
Dist. 190 Km.	Dist. 750 Km.	eP 22:44:27.8
		eS 44
12 eP 13:53:46	eP 14:20:05	Dist. 140 Km.
Distant shock	eS 59.5	iP 22:47:37
	Dist. 525 Km.	eS 48:03
eP 15:05:25	eP 14:38:06	Dist. 240 Km.
eS 06:27	eS 39:25	
Dist. 600 Km.	Dist. 770 Km.	16 eP 13:21:16.5
eP 15:19:(02.7)	eP 14:52:05.2	eS 32.5
eS 20:20	eS 53:(26.5)	Dist. 140 Km.
Dist. 755 Km.	Dist. 800 Km.	eP 16:45:36
eP 20:11:21.5	eP 19:21:06.8	eS 52
eS 57.5	eS 21.7	Dist. 140 Km.
Dist. 340 Km.	Dist. 130 Km.	iP 17:39:56.3
		eS 40:16
		Dist. 175 Km.

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Jan.17 eP 02:07:02.8	Jan.19 eP 19:05:10.3	Jan.21 iP 10:04:13.2
1969 eS 41.5	1969 Distant shock	1969 iS 32.2
Dist. 365 Km.		Compression from NW
iP 04:50:03	20 iP 02:10:56.8	Dist. 170 Km.
eS 26	iS 11:17.5	iP 19:37:13.7
Dist. 210 Km.	Dist. 185 Km.	iS 33.6
Compression	eP 17:18:18.8	Compression
eP 05:51:50.8	Distant shock	Dist. 180 Km.
eS 52:04.7	eP 07:57:05.5	22 eP 12:29:38.3
Dist. 120 Km.	eS 22.9	Distant shock
18 eP 01:24:40.7	Dist. 155 Km.	eP 23:17:20.2
Distant shock	Small	Distant shock
eP 02:54:04.0	eP 08:21:01.8	23 eP 01:55:23.8
eP 03:09:43.1	Distant shock	Distant shock
ePP 10:31	iP 12:37:27.5	iP 06:07:24.8
eS 11:48	iS 50.0	iS 55.5
Dist. 15°	Compression from NE	Dist. 285 Km.
iP 06:15:40.2	Dist. 205 Km.	eP 16:19:05.0
iS 50.4	eP 14:39:30.0	Distant shock
Dist. 80 Km.	Distant shock	eP 19:04:52.7
Dilatation from SW	eP 21:48:15.1	Distant shock
19 iP 03:04:02.6	e 25.5	eP 21:54:22.6
iS 16.4	eS 49:16.3	iS 40.2
Dist. 120 Km.	Dist. 590 Km.	Dist. 155 Km.
eP 07:21:27.4	iP 22:37:58.2	Small
e 22:36	iS 38:14.3	eP 23:36:22.3
ePP 25:15	Dilatation	eS 37:02.5
ePPS 34:29	Dist. 140 Km.	Dist. 380 Km.
e 40:32	iP 23:34:53.8	24 iP 00:07:12.5
Dist. 92.5°	iS 35:08.2	iS 22.6
eP 09:46:59.7	Dist. 125 Km.	Dilatation
Distant shock	21 iP 06:39:19.8	Dist. 80 Km.
eP 10:28:56.0	iS 40:09.8	Small
Distant shock	Dist. 480 Km.	eP 01:17:05.6
eP 10:51:21.3	iP 07:36:42.9	Distant shock
eS 52:06.8	iS 37:03.6	eP 02:45:15.1
Dist. 235 Km.	Compression from SE	Distant shock
eP 16:59:33.0	Dist. 185 Km.	eP 06:00:16.2
eS 45.2	iP 09:50:29.8	eS 34.5
Dist. 100 Km.	iS 43.2	Dist. 165 Km.
iP 18:48:40.2	Dist. 115 Km.	Small
iS 49:00.0	Dilatation	eP 07:00:42.5
Dilatation from SW	eP 09:57:57.4	eS 01:00.7
Dist. 180 Km.	Distant shock	Dist. 160 Km.
		Small
		eP 07:51:54.2
		eS 52:18.4
		Dist. 220 Km.

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Seismologist

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PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

Jan.04 eP 03:22:55.5	Jan.13 eP 07:03:(22.5)	Jan.19 eP 07:21:28.2
1969 eS 15.2	1969 eP 09:26:00	1969 Distant shock
Dist. 175 Km.		iP 18:46:39.3
eP 23:43:55	15 eP 03:15:35	20 iP 02:10:55.7
07 eP 02:40:01.5	eP 22:47:40.5	iS 11:14.9
eS 22.4	16 eP 17:39:53.5	Dist. 170 Km.
Dist. 190 Km.	eS 40:10.5	eP 22:38:02.5
08 eP 06:07:15	Dist. 150 Km.	iS 22.1
13 eP 02:03:50.5	17 eP 04:50:(07)	Dist. 175 Km.
eP 06:00:15	18 iP 06:15:41.6	21 eP 06:39:24.4
eP 06:37:42	19 iP 03:04:02.4	Distant shock
	iS 15.2	iP 07:36:39.5
	Dist. 110 Km.	i(S) 55.8
		Compression
		Dist. about 145 Km.
		eP 10:04:17.1
		iS 40.5
		Dist. 215 Km.
		23 eP 06:07:29.6

H. Becker
Seismologist

PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

Jan.01 eP 01:00:(13.0)	Jan.01 eP 07:50:35	Jan.02 eP 17:58:54
1969 i 14.3	1969 eS 59.9	1969 Distant shock
e(S) 39.0	Dist. about 220 Km.	eP 20:46:02.4
i 44.1	e(P) 13:09:09	Local
eP 01:07:(50.7)	eS 32.3	iP 21:38:45.0
Local	eP 20:46:50.1	eS 39:23.1
iP 02:48:56.5	eS 56.5	Dist. 340 Km.
iS 49:01.5	Dist. 60 Km.	Compression
dilatation	02 eP 00:06:34.5	eP 22:12:18.0
Dist. 50 Km.	e(S) 59.9	Local
e(P) 04:50:02	eP 03:27:(25.7)	03 eP 00:02:22.7
eS 20.0	Local	e(S) 03:02.7
eP 05:56:36.7	eP 13:06:(59.8)	e(P) 01:17:38.2
eS 57:21.4	eS 07:37.4	eS 18:(33.5)
Dist. 420 Km.	iP 14:49:22.6	eP 01:28:57.0
eP 06:45:17	eS 50:01.3	eS 29:33.6
e 19.5	Dist. 350 Km.	Dist. 330 Km.
e(S) 40.6	Compression	e(P) 04:40:10.5
	eP 15:28:41.4	e(S) 41:31.3
	i 42.1	
	e(S) 29:04.2	
	i 12.9	

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Jan.03 e(P) 11:39:19.7	Jan.05 eP 13:23:28.2	Jan.07 eP 17:08:23.5
1969 e(S) 40:33.3	1969 eS 59.0	1969 i 24.0
eP 18:52:58.0	Dist. 280 Km.	eS 09:11.9
e(S) 53:35.6	eP 13:45:(33.5)	Dist. 450 Km.
eP 18:54:49.1	Distant shock	eP 17:12:44.1
eS 55:30.8	eP 17:46:14.7	eS 13:03.6
Dist. 390 Km.	e(S) 23.4	Dist. 160 Km.
04 eP 09:55:13	06 eP 00:43:33.7	eP 18:16:08.3
eS 38.2	i 36.0	eS 34.0
Dist. about 220 Km.	iS 53.0	Dist. 230 Km.
iP 10:02:51.4	Dist. 160 Km.	08 eP 00:03:27.3
iS 58.0	eP 00:14:38.1	iS 46.0
Dist. 60 Km.	eS 42.5	Dist. 160 Km.
Compression	Dist. 40 Km.	iP 04:01:22.5
eP 17:53:47.0	eP 08:37:05.1	iS 47.5
eS 53.5	eS 41.2	Dist. 220 Km.
Dist. 60 Km.	Dist. 320 Km.	Compression
eP 18:37:24.0	eP 12:34:19	eP 04:23:21.8
eS 56.0	eS 48.6	eS 28.5
Dist. 290 Km.	Dist. about 270 Km.	Dist. 60 Km.
eP 20:13:39	eP 15:54:00	eP 10:14:00.5
e(S) 14:07.5	ePP 58:53.5	e(S) 26.2
eP 21:35:14.8	e 16:06:52	iP 11:18:08.7
e(S) 53.5	eSP 08:42	iS 28.2
05 eP 00:27:16.7	eSS 15:00	Dist. 170 Km.
eS 39.0	eSSS 19:00	e(P) 13:11:19.0
Dist. 190 Km.	eG 27:38	Local
iP 00:48:01.0	eR 33:00	e(P) 13:26:40.2
eS 33.7	Dist. about 117°	eS 55.0
Dist. 300 Km.	iP 17:50:53.0	iP 21:13:56.5
Compression	iS 51:06.5	Local
eP 04:17:58	Dist. 110 Km.	eP 22:32:06.3
eS 18:34.8	Dilatation from SE	eS 46.0
Dist. about 330 Km.	iP 20:19:41.9	Dist. 360 Km.
iP 05:43:23.1	iS 20:37.4	09 eP 00:22:54.3
eS 47.5	Dist. 530 Km.	eS 23:00.0
Dist. 210 Km.	Compression from N	Dist. 50 Km.
Compression	eP 20:32:48	eP 00:28:49.8
eP 07:01:23.6	eS 33:54.6	i 53.2
eS 41.1	Dist. about 660 Km.	iS 29:17.0
Dist. 150 Km.	07 eP 16:03:20	Dist. 240 Km.
iP 13:12:34.2	Local	eP 04:30:11.7
iS 58.3	iP 17:04:22.5	eS 29.0
Dist. 210 Km.	iS 35.4	Dist. 140 Km.
Compression	Dist. 110 Km.	eP 07:22:28.4
	Compression	eS 44.5
		Dist. 130 Km.

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Jan.09 eP 08:21:31.2	Jan.12 iP 01:49:34.5	Jan.13 eP 14:53:30.8
1969 e(S) 53.2	1969 i(S) 45.2	1969 e(S) 54:24.9
eP 18:46:28.7	Compression	14 eP 02:01:06.5
eS 47:06.9	eP 04:21:05.2	eS 42.5
Dist. 340 Km.	eS 24.0	Dist. 320 Km.
eP 22:09:21.2	Dist. 160 Km.	eP 06:35:21.3
eS 10:00.2	eP 05:04:33.8	eS 26.8
Dist. 350 Km.	eS 05:10.0	Dist. 50 Km.
eP 22:57:00	Dist. 320 Km.	eP 16:10:19.5
eS 16.5	iP 08:21:17.5	eS 41.5
Dist. about 140 Km.	iS 45.8	Dist. 190 Km.
10 eP 09:57:33.4	Dist. 250 Km.	e(P) 16:30:34.0
eS 53.7	Compression	e 34.7
Dist. 170 Km.	eP 13:51:48.9	eS 31:03.5
iP 20:58:58.5	i(S) 52:17.0	eP 20:09:20.7
iS 59:39.7	e(P) 14:00:05.5	iS 37.7
Dist. 380 Km.	Local	Dist. 140 Km.
Compression	eP 15:05:00	eP 20:29:37
11 eP 06:08:50	e(S) 06:24.5	eS 30:15.5
iS 09:19.2	eP 15:18:47.5	Dist. about 350 Km.
Dist. about 260 Km.	e(S) 20:08.5	e(P) 22:08:38.5
iP 06:22:21.1	eP 15:50:37.2	eS 59.6
iS 57.8	eS 51:11.0	15 eP 01:44:08.7
Dist. 330 Km.	Dist. 300 Km.	iS 14.3
Compression	iP 19:45:52.4	Dist. 50 Km.
eP 09:41:22.3	e(S) 46:20.3	iP 07:15:25.6
eS 58.2	eP 20:35:36.2	iS 16:05.2
Dist. 320 Km.	e(S) 36:43.5	Dist. 360 Km.
e(P) 11:28:03.5	eP 22:53:17.7	Compression
eS 44.9	e(S) 56.5	eP 13:19:02.1
eP 12:37:20.5	13 eP 01:36:47.8	Distant shock
eS 41.0	eS 37:26.0	eP 13:20:01.2
Dist. 190 Km.	Dist. 340 Km.	eS 41.8
eP 14:40:55	iP 05:25:30.6	Dist. 370 Km.
eS 41:13.4	iS 26:10.5	eP 20:05:28.8
Dist. about 150 Km.	Dist. 360 Km.	iS 41.5
eP 17:50:05	Compression	Dist. 110 Km.
eS 35.5	eP 06:39:49.5	16 eP 04:04:32
Dist. about 280 Km.	e 43:12.5	eS 54.8
eP 18:37:50.5	Distant shock	Dist. about 200 Km.
eS 38:02.5	eP 07:58:15.5	iP 05:54:36.9
Dist. 100 Km.	e(S) 41.8	iS 42.7
eP 19:52:20	e(P) 09:31:32.5	Dist. 50 Km.
eS 53:12.5	Distant shock	iP 09:54:27.7
Dist. about 490 Km.		iS 55:06.3
		Dist. 350 Km.
		Compression from NE

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Jan.16 1969	iP 15:46:28.1 eS 32.9 Dist. 40 Km. Compression from NE	Jan.18 1969	eP 00:13:02.7 eS 30.3 Dist. 250 Km.	Jan.19 1969	eP 10:29:48 eS 31:02.4
	eP 17:03:48.6 eS 04:23.8 Dist. 310 Km.		iP 00:41:56.8 iS 42:32.7 Dist. 320 Km. Compression from E		eP 14:11:49.6 e(S) 12:17.8
	e(P) 18:31:50 eS 32:26.3		eP 03:10:44.5 eS 18:07 eScS 20:30 eG 23:10 Dist. about 55° Doubtful interpretation		eP 14:49:00 eS 06.2 Dist. 60 Km.
	eP 19:30:24.0 e(S) 37.8		eP 04:09:50.9 Distant shock		eP 18:50:41.0 i 47.1 e(S) 53:18.3
	e(P) 21:00:54 e(S) 01:17.0		eP 04:15:40.0 PZ 0.1 u; T 1.0 sec.		iP 21:29:07.1 iS 50.0 Dist. 400 Km. Compression from NE
17	eP 00:47:48.0 iS 48:10.1 Dist. 190 Km.		eP 14:04:29.3 e(S) 05:18.8	20	iP 00:36:47.0 iS 37:06.7 Dist. 170 Km. Compression
	eP 03:00:30.4 eS 54.1 Dist. 210 Km.		e(P) 18:28:36 Distant shock		ePKP 14:39:17.6
	e(P) 03:54:(33.5) eS 55:01.9		eP 21:28:07.2 eS 20.0 Dist. 110 Km.		eP 16:39:20 eS 40:07.0 Dist. about 440 Km.
	eP 04:51:26 e 35.4 e(S) 53:11.4	19	iP 04:25:26.7 eP 26:02.6 Dist. 320 Km. Compression from E		eP 17:58:25.5 eS 59:01.7 Dist. 320 Km.
	eP 05:30:17 e(S) 31:38.0		eP 04:57:(45.5) e(S) 58:11.0		eP 22:04:17.0 eS 37.2 Dist. 170 Km.
	eP 08:00:33.0 Local		e(P) 04:02:49.1 eS 03:32.3	21	ePKP 02:06:55.5
	eP 11:00:44.5 eS 01:06.0 Dist. 190 Km.		iPKP 07:21:19.5 ePP 22:48 ePPP 24:48 eSKS 28:06 e 31:10 eSS 38:45 eSSS 43:08 eG 51.5 eR 57.2 Dist. about 119° Compression from NW Doubtful interpretation		eP 06:39:36 e(S) 40:46.5 i 53.7
	eP 12:44:47.1 eS 45:26.8 Dist. 360 Km.		iP 10:24:25.9 iS 25:06.8 Dist. 370 Km. Compression		eP 09:58:15 eS 59:20.0 Dist. 620 Km.
	eP 14:19:14.6 eS 31.1 Dist. 140 Km.				e(P) 12:51:24.6 eS 40.4
	iP 21:12:07.2 eS 44.5 i 49.0 Dist. 330 Km. Compression				eP 18:26:58.5 eS 27:21.2 Dist. 200 Km.
18	e(P) 00:04:50 eS 05:26.8				eP 19:48:14.5 i(S) 36.5

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PROVISIONAL READINGS AT ANTOFAGASTA

Jan. 22 eP 05:27:06
1969 eS 45.6
Dist. about 360 Km.

eP 09:18:19
eS 19:04.8
Dist. about 430 Km.

iP 10:38:41.2
iS 39:21.2
Dist. 360 Km.
Compression

eP 19:05:04.2
eS 45.5
Dist. 370 Km.

eP 21:09:42.2
iS 10:16.2
Dist. 310 Km.

Jan. 22 eP 22:01:28.0
1969 iS 33.0
Dist. 40 Km.

iP 23:15:22.1
iS 45.0
Dist. 190 Km.
Compression from SE

23 eP 00:33:29.4
eS 54.3
Dist. 210 Km.

iP 01:53:26.0
Dilatation from SE
Local

eP 06:08:23
iS 10:11.3
Dist. about 1000 Km.

Jan. 23 eP 13:47:05
1969 i 12.1
i 53.5

Local

iP 19:02:27.4
iS 39.0
Dist. 90 Km.
Compression

24 ePKP 02:45:37.5

eP 09:41:09.0
iS 37.1
Dist. 260 Km.

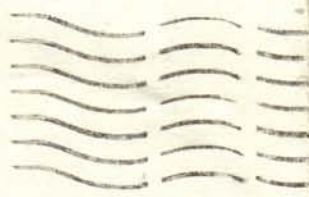
eP 12:49:58.8
iS 50:37.1
Dist. 340 Km.

Y. Franulic
Seismologist

IMPRESO ORDINARIO

9
Edinburgh
6 South Cross Road

INTERNATIONAL SEISMOLOGICAL
SUMMARY
~~KEM OBSERVATORY~~
~~RICHMOND SURREY ENGLAND~~



UNIVERSIDAD DE CHILE
Departamento de Geofísica y Geodesia

29 JUL 1971
Casilla 2777
Santiago, Chile

PROVISIONAL READINGS AT SALINAS

23° 09' 14" S 69° 36' 40" W h 1350 m.

Date	Type	Time	Date	Type	Time	Date	Type	Time
Jan.04 1969	iP	01:51:59.7	Jan.04 1969	From 04 at 19:00		Jan.07 1969	eP	13:26:49
	eS	56:25		to 06 at 21:20			i	50.8
				station stopped			e	27:20
	iP	03:23:19.5					iS	22.7
	eS	34		06 eP	23:07:12		iP	14:17:44.9
				e	18		iS	18:18.9
	iP	04:57:18.8		iS	51.2			
	eS	39		07 iP	01:30:58.3		eP	16:03:11
				iS	31:24.0		i	15.5
	eP	08:18:30						
	e	19:28		iP	02:16:24.8		iP	17:04:06.8
				eS	51		(*)	
	iP	09:04:31.7					iP	17:12:35.6
	e	55		iP	02:24:55.7		Compression	
	eS	57		eS	25:13		eP	18:16:20
	iP	09:54:02.4		eP	02:42:01			
	Compression						iP	22:38:45.9
				iP	05:33:40.1		i	39:06.9
	iP	11:40:23.7		i	45.3		iS	09.6
	iP	11:55:34.9		i	57.8			
	iS	56:07.5		i	34:02.1		eP	23:06:56
	Compression			Dilatation			eS	07:07
	eP	12:42:45		iP	05:40:15.5		08 iP	00:03:23.8
	i	51.4					Dilatation	
	i	43:01.1		iP	06:13:49.7		eP	01:30:04
				iS	13.1		i	16:3
	eP	12:52:39					iS	25.2
				iP	06:47:03.3			
	iP	12:59:49.1		eP	07:01:25		iP	04:01:12.2
	iS	00:11.8		e	51		Compression	
	iP	13:10:43.8		eP	09:38:57		eP	04:18:19
				eS	39:29		eS	36
	iP	13:59:14.4						
				eP	10:20:39		iP	04:33:33.4
	iP	14:44:01.2		iS	21:04.7		Dilatation	
	iS	32.5						
	Compression			iP	10:53:48.5		iP	07:21:17.1
				eS	54:13		Compression	
	iP	14:54:30.8						
	iS	55:02.5		iP	11:07:59.3		iP	10:13:50.1
				iS	08:53.5		Compression	
	eP	15:59:56		Dilatation				
	eS	00:22						
				eP	11:28:03		iP	11:11:57.5
	eP	16:09:26					eS	12:19
	iP	17:53:36.8		iP	12:09:34.5		iP	11:17:59.4
	iS	48.2		eS	10:10		Compression	
				Dilatation				
	iP	18:37:20.5						
	i	25.1		iP	12:28:31.6		iP	12:41:00.8
	i	34.1		iS	50.8		eS	09
	i	42.9						
	i	52.0					eP	12:59:55
							eS	00:29

Jan.07 eP 17:08:14

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PROVISIONAL READINGS AT SALINAS

Jan.08 eP 13:11:03	Jan.10 iP 05:21:05.1	Jan.14 iP 16:10:07.9
1969 iP 07.7	1969 e 56	1969 Compression
eP 13:40:40	iS 22:02.0	iP 16:30:23.7
eP 14:13:46	eP 06:17:56	Dilatation
iP 15:02:51.3	eS 18:22.3	iP 20:09:20.9
eS 03:26	i 28.8	Dilatation
iP 15:38:32.8	iP 08:58:51.6	iP 22:08:27.1
iS 45.4	iS 59:18.6	iS 40.4
iP 15:51:58.5	iP 09:57:25.2	Compression
iS 52:23.2	eP 13:39:41	15 iP 04:54:17.8
eP 16:31:37	eP 16:52:01	iS 30.1
i 42.1	e 22	iP 10:25:18.7
iS 59.3	eP 17:32:47	iS 54.0
iP 17:16:28.5	e 33:10	Compression
eS 46	i 21.9	iP 13:19:49.3
eP 18:03:23	iP 06:22:15.0	e 57
e 28	i 46.3	iP 20:05:26.2
09 iP 06:22:40.7	Compression	Dilatation
e 52	iP 06:08:41.3	eP 20:59:56
i 23:05.4	11 iP 09:41:16.5	iP 21:21:06.0
iP 07:21:26.5	i 35.8	e 36
i 43.5	iS 47.2	e 56
Dilatation	Compression	i 56.4
iP 18:46:21.8	iP 11:27:58.9	eP 23:10:58
iS 56.2	iP 12:37:22.8	iS 11:10.3
iP 18:50:49.8	Compression	16 eP 02:34:19
iS 51:02.8	eP 15:03:08	eS 40
eP 20:18:01	eS 34	iP 05:54:46.8
i 09.8	eP 17:49:51	iS 59.5
i 26.2	eP 19:52:26	i 55:00.8
iS 53.2	e 53:10	iP 09:54:21.2
iP 22:56:49.2	i 53.5	iS 53.3
Compression	12 eP 19:28:23	i 55.4
iP 23:11:25.0	iP 19:45:39.7	Dilatation
Compression	Compression	17 iP 14:19:02.7
10 iP 02:59:02.7	iP 20:35:35.8	i 09.9
eS 15	i 36.4	eP 15:04:08
iP 03:09:48.7	13 eP 14:53:20	i 19.4
iS 10:04.2	iS 52.3	i 48.3
Compression	iP 17:25:25.5	iP 15:38:46.0
iP 04:21:30.1	iS 50.0	iS 39:13.4
iS 45.1	i 53.2	Dilatation
Compression		18 iP 00:13:53.2
		iS 14:15.1
		Dilatation

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Jan.18 eP	00:42:51	Jan.20 iP	18:46:22.1	Feb.18 iP	10:46:53.2
1969 iS	43:22.8	1969 eS	38	1969 iS	47:17.2
		Compression		iP	11:01:00.4
19 iP	04:15:19.8	From 20 at 21.24 to		iS	32.3
iS	49.0	23 at 15:10 no			
		records			
iP	06:21:19.6	23 iP	15:31:49.1	iP	11:22:31.0
i	20.1	iS	32:21.9	eS	23:03
iP	09:24:18.7	Dilatation		Compression	
iS	55.1	eP	17:34:17	iP	12:55:08.7
i	55.5	eS	51	iP	13:31:18.3
Dilatation		i	52.3	iS	31.2
iP	12:11:05.6	iP	19:02:37.2	Dilatation	
iS	12:00.6	iP	19:15:45.6	eP	14:59:32
		iS	16:11.9	iP	16:46:11.6
iP	14:11:50.4	25 iP	21:44:13.8	iS	37.9
iS	12:15.7	iS	32.0	iP	16:58:13.5
Dilatation		26 iP	01:36:20.8	e	22
iP	17:28:38.2	i	55.2	e	48
iS	58.0	iS	56.3	iP	17:54:30.7
eP	18:50:47	Dilatation		e	45
e	50	iP	01:40:24.1	eP	19:51:33
20 eP	00:36:47	iS	56.2	iP	22:44:47.8
eS	37:05	Dilatation		iS	45:21.6
i	06.8	iP	06:56:18.3	19 iP	00:12:04.5
iP	02:01:33.9	i	27.3	iS	35.2
iS	53.5	iS	30.2	Compression	
eP	08:08:53	i	31.4	iP	00:52:32.8
e	09:17	Feb.18 iP	05:57:58.6	eS	53:06
i	20.3	iP	06:41:36.2	iP	01:33:30.0
iP	11:12:50.2	iS	59.2	i	36.1
iS	13:05.7	eP	07:35:12	i	40.5
i	06.7	eS	58	Dilatation	
Compression		i	36:01.0	eP	01:39:29
iP	15:15:15.6	eP	07:44:17	eS	53
Compression		eS	48	e	55
eP	16:39:10	e	50	iP	04:39:04.0
e	36	iP	09:35:14.3	iS	35.9
i	58.0	eS	47	Dilatation	
iP	17:16:41.5	iP	09:36:17.6	iP	05:31:14.8
iS	55.2	iS	39.6	eS	41
iP	17:58:18.7	Compression			
iS	55.2				
Compression					

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PROVISIONAL READINGS AT SALINAS

Feb.19 1969	eP eS	07:30:38 31:00	Feb.20 1969	iP iS	02:03:40.8 54.2	Feb.21 1969	eP iS	19:40:02 20.2
	iP iS	08:36:10.2 26.1		iP iS	03:37:54.5 38:07.0		iP iS	20:53:11.6 43.2
	Dilatation			Compression			Compression	
	iP eS	09:41:00.4 35	(*)	iP eS	05:48:33.9 58		iP eS	21:12:25.1 59
	iP iS	10:07:13.8 29.1		eP	07:36:04		iP iS	22:29:37.8 30:08.5
	Dilatation			iP iS	08:51:50.5 52:22.3	24	iP iS	15:23:09.6 26:41.5
	iP iS	10:33:21.8 38.3		Dilatation			iP I iS	17:09:09.9 29.3 34.2
	iP iS	12:34:20.9 41.2		eP e iS	09:16:48 49 17:14.5		Dilatation	
	Compression			iP iS	09:43:42.2 44:15.0		eP i i i	19:06:28 37.9 56.8 07:07.0
	iP Compression	13:40:02.5		iP iS	09:57:42.9 58:24.8		eP i	19:56:17 57:09.8
	iP iS i	13:50:17.6 21.0 21.8		eP e	10:50:09 17		eP eS	21:27:06 22
	Compression			eP iS	11:25:29 47.0		iP iS	21:28:21.3 34.1
	iP Dilatation	15:11:15.3		iP i iS	12:07:31.3 52.1 58.8		Compression	
	eP iS	15:36:38 37:32.2		Dilatation		25	iP i i i	00:43:43.9 49.2 44:04.8 30.7
	eP eS	15:56:31 53		iP	13:12:42.9		Dilatation	
	iP iS	18:05:37.2 58.8		eP iS	14:09:19 29.5		iP iS	01:06:22.9 58.7
	eP e e	22:02:50 56 03:06		iP iS	14:40:44.1 41:06.8		Dilatation	
	Compression			Compresión			iP i iS	01:47:03.9 24.8 35.4
	eP e	22:52:49 53:33		iP Dilatation	15:43:21.8		Compression	
20	iP Compression	01:09:22.3		eP iS	16:24:59 25:46.6		iP	02:34:34.8
	iP iS	01:14:22.9 49.2		iP eS	17:39:55.7 40:12		Dilatation	
	Compression			21	iP Dilatation	19:35:35.9	eP iP eS	03:10:17 03:29:55.0 30:25
(*) Feb.20	eP eS e	05:13:12 14:00 14.03						

PROVISIONAL READINGS AT SALINAS

Feb. 25 1969	iP 04:23:51.1 iS 24:10.9 Dilatation	Feb. 26 1969	iP 09:57:20.3 eS 55 Dilatation	Mar. 05 1969	eP 00:58:52 i 53.3 iP 01:50:29.8 Dilatation
	iP 05:05:12.9 iS 45.0		iP 11:30:18.9 eS 50 Dilatation		eP 04:47:54 e 48:03 i 32.4
	iP 05:22:13.9 iS 33.1 Dilatation		iP 13:58:33.9 iS 50.8		iP 07:58:29.9 Dilatation
	eP 05:41:01 iS 22.2 i 32.5		iP 14:57:33.4 Compression		iP 08:26:57.8 i 27:12.6 Compression
	iP 07:08:20.3 iS 51.4	27	iP 03:32:43.3 iS 56.8 Dilatation		iP 08:35:05.7 e 36:16 Compression
	eP 08:14:56 eP 58 e 15:24 eS 33 i 41.1		iP 04:53:28.2 iS 54:00.7 Compression		eP 09:08:17
	iP 10:44:05.9 iS 21.5 Compression		eP 05:11:50		iP 10:20:21.2 Compression
	iP 12:02:02.2 iS 11.2 Dilatation		iP 05:16:44.7 eS 17:18		iP 11:33:47.8 iS 35:08.3 Dilatation
	iP 12:13:24.3 eS 33		eP 12:36:12 iS 29.6		iP 17:14:25.8 iS 45.2 Compression
	eP 12:21:05 eS 26		eP 14:30:15 eS 42		iP 19:18:30.2 e 51 i 52.2 Dilatation
	iP 13:35:32.1 Dilatation		iP 15:34:34.0 i 38:4 iS 58.2 Dilatation		iP 19:50:34.9 i 46.6 Compression
	eP 14:05:48 iS 06:12.0		eP 16:57:15 i 33.6 iS 52.4		iP 23:55:52.3 iS 56:03.0
	eP 14:57:15 e 31	Mar. 03	iP 18:58:06.0 i 23.9 iS 30.8		
	iP 15:05:40.5 e 06:10 eS 15		iP 20:20:24.3 iS 40.5	06	iP 01:36:37.8 Dilatation
	iP 19:02:44.8 e 56 i 03:55.5		eP 21:59:07 eS 38		eP 01:39:41 eS 40:15
26	eP 00:19:57 e 20:20	04	iP 23:55:34.2 eS 56:08		iP 05:56:09
	iP 01:58:09.9 iS 43.5		iP 07:00:40.8 eS 01:16		iP 08:00:31.0 iS 55.2 Compression
	eP 06:01:58 eS 02:27		iP 14:35:54.8 iS 36:31.1		iP 08:53:59.1 iS 54:06.4 Dilatation
			eP 15:06:04 eS 27 i 30.1		

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PROVISIONAL READINGS AT SALINAS

Mar.06 1969	iP eS	09:01:55.2 02:14	Mar.08 1969	iP i	07:16:24.4 41.6	Apr.23 1969	eP eS	11:26:19 53
	iP iS	09:51:04.7 20.2		Dilatation			eP	11:38:39
	iP Dilatation	10:01:52.1		iP iS	12:38:53.7 39:15.5		eP eS	15:21:54 22:34
	iP i iS	11:15:09.8 21.0 34.4		eP e e	12:48:53 49:02 10		eP eS	16:37:13 47
	iP eS	13:46:19.3 51		iP iS	18:39:31.5 41.0		eP eS	17:11:20 26
	iP iS	14:35:20.7 53.4		Dilatation			eP eS	17:15:23 56
	eP eS	17:43:24 52		eP eS	19:12:31 53		iP	17:37:37.5
	iP Compression	18:36:36.8		iP iS	19:50:43.8 51:20.6		iP eS	18:54:24.4 59:39
	iP i iS	20:15:41.1 16:12.7 15.5		From 08 at 19:50 to Apr.22 at 20:51 no records			eP iS	19:14:44 58.6
	Compression		Apr.22	eP iS	20:51:09 30.4		eP iS	19:51:27 46.8
07	iP	01:15:57.7		eP eS	21:49:12 49		eP eS	21:23:32 56
	eP i	02:54:36 51.7		eP eS	22:06:52 07:12		iP iS	21:27:37.9 52.0
	iP i iS	04:08:21.2 45.2 52.3		eP	22:22:37	24	eP	03:23:54:
	Compression		23	iP eS	02:52:33.3 55		eP eS	05:53:00 26
	iP iS	07:09:09.8 51.8		Compression			eP eS	07:13:03 21
	eP iS	09:41:23 42:04.4		iP eS	04:41:14.2 32		eP eS	07:45:02 23
	iP iS	11:35:10.2 24.8		iP iS	07:06:34.5 42.5		eP eS	08:13:06 26
	Dilatation			Dilatation			eP eS	08:29:36 58
	eP	12:24:23		eP eS	08:08:28 09:02		eP eS	09:29:16 32
	eP eS	23:33:00 16		iP	08:36:07.4		eP eS	09:53:45 54:06
08	iP iS	00:01:32.3 45.1		eP eS	09:55:27 59		iP eS	11:36:03.9 19
	i Compression	46.9		eP eS	10:10:31 11:11		Dilatation	



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PROVISIONAL READINGS AT SALINAS

Date	Time	Phase	Value	Date	Time	Phase	Value	Date	Time	Phase	Value
Apr. 24	12:08:45	eP		Apr. 25	06:54:56	eP		Apr. 26	10:11:58	eP	
1969	09:18	eS		1969		eS		1969	12:20	eS	
	12:20:05.2	iP			07:12:46.8	iP			11:07:12.2	iP	
	34.1	iS				Dilatation			25.3	iS	
		Compression			10:36:42	eP				Dilatation	
	12:22:49.1	eP			37:03	eS			12:01:51	eP	
	23:16	eS			13:18:45.2	iP			13:11:29	eP	
					58	eS			13:59:24.9	iP	
	13:34:13	eP			14:18:18.4	iP			45.8	iS	
	13:36:10	eP			41.1	iS				Compression	
	13:51:11	eP				Dilatation			14:16:18	eP	
	38	eS			16:27:52	eP			38.3	iS	
	14:26:30	eP			24	eS			14:21:59.1	iP	
	27:02	eS			16:54:05	eP			14:28:39	eP	
					32	eS			14:42:12	eP	
	15:13:41	eP			16:55:47	eP			16:51:07	eP	
	16:49:18.8	iP			56:06	eS			41.8	iS	
	50.4	iS			17:00:18	eP			19:06:15	eP	
		Compression			18:03:48	eP			19:07:39	eP	
	17:30:08.1	iP			04:21	eS			08:05	eS	
	23	eS			18:10:12	eP			19:35:13.8	iP	
	18:51:36.3	iP			43	eS			40	eS	
	50	eS			20:05:38.9	iP			23:59:49	eP	
	19:18:49.0	iP			06:14	eS			00:25	eS	
	19:02.2	iS				Compression			00:15:20	eP	
		Dilatation			20:40:57	eP			00:26:19	eP	
	19:28:20.7	iP			41:42	eS			53	eS	
	34.2	iS			26 eP	00:14:43			00:35:42.1	iP	
		Dilatation			15:15	eS				Dilatation	
	21:53:57	eP			iP	06:00:39.2			00:46:20	eP	
	54:23	eS			07:13:22	eP			02:17:06.2	iP	
					15:03	eS			41	eS	
	22:41:50	eP			07:38:28	eP				Compression	
25	02:51:14.4	iP			39:03	eS			03:34:19	eP	
	46	eS			iP	07:45:48.9			58.1	iS	
	03:27:09	eP			46:04.9	iS			03:45:22	eP	
	29	eS				Dilatation			05:22:37	eP	
	03:40:50	eP							23:04.1	iS	
	04:04:49	eP			08:05:00	eP					
	05:08	eS			33	eS					
	06:29:00	eP			08:55:10	eP					
	29	eS			09:36:08	eP					

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PROVISIONAL READINGS AT SALINAS

Apr.27 eP 05:56:39	Apr.28 eP 04:28:58	Apr.29 eP 03:10:22
1969 eS 57:04	1969 eS 29:19	1969 eS 30
iP 07:33:25.3	eP 04:34:11	iP 04:49:22.7
iS 36.4	iP 04:58:55.5	Dilatation
iP 07:40:31.3	Dilatation	eP 06:20:33
iS 43.2	iP 05:14:30.5	iS 54.9
Dilatation	eS 15:15	iP 06:37:28.3
iP 08:34:34.7	iP 06:21:45.7	iS 33.0
Compression	eS 22:23	eP 08:22:58
eP 09:14:18	iP 07:10:06.0	eS 23:15
eS 53	eS 35	eP 09:47:23
eP 09:45:08	eP 07:29:43	eS 57
iP 10:26:34.9	eS 30:10	eP 09:55:50
iS 49.2	eP 08:42:53	iS 56:15.3
Dilatation	eS 43:25	eP 10:28:57
iP 10:35:21.5	eP 09:11:01	eS 29:48
eS 48	eP 09:24:34	iP 11:07:57.3
iP 11:36:34.5	eS 56	iS 08:16.2
eS 37:00	iP 10:02:23.7	Dilatation
eP 12:05:55	eS 54	iP 12:06:16.7
eS 06:15	Dilatation	iS 30.8
eP 12:51:47	eP 10:20:55	iP 12:11:46.1
eP 13:07:33	eP 11:35:07	eS 12:31
iP 13:34:32.4	eS 54	eP 12:34:00
eS 35:06	eP 15:48:11	eP 12:40:06
eP 16:29:31	eS 43	eS 38
eP 19:41:19	iP 17:52:01.0	eP 13:13:30
eS 42	eS 35	eS 44
eP 23:20:07	eP 19:20:14	eP 15:33:01
iS 26.4	eS 35	eS 19
28 eP 00:37:48	iP 22:41:39.1	eP 16:35:10
eP 01:48:22	iS 52.5	eS 24
eS 44	Compression	eP 17:03:24
iP 02:32:18.8	29 eP 02:06:41	eS 04:00
eS 44	eS 02	eP 18:13:38
eP 03:16:55	eP 03:08:57	eS 14:12
iP 03:44:47.3	eS 09:30	30 eP 02:03:34
eS 45:20	eP 03:09:17	eS 49
	eS 54	iP 04:55:37.2
		iS 56:10.9

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Apr. 30 1969	eP	06:57:36	May. 01 1969	eP	17:00:57	May. 03 1969	eP	04:13:25
	eS	58:08		eP	20:14:09		eP	08:21:17
				eS	26		i	21.9
	eP	07:09:56		eP	22:20:08		iP	09:07:05.1
	eS	10:15		eS	34		iP	12:04:22.7
	eP	08:16:54	02	eP	03:59:59		iS	49.5
	eS	17:18		i	00:10.4		iP	13:20:28.9
	eP	10:30:16		iP	04:15:37.2		iS	53.9
	i	26.2		iS	51.5		Compression	
	e	44		Dilatation			iP	15:06:43.4
	eS	55		iP	04:29:58.1		iS	07:10.2
	¿Two Shocks?			iS	30:25.3		Compression	
	eP	12:33:20		Compression			iP	16:30:54.8
	eS	43		eP	04:35:58		iS	28.3
	iP	15:01:29.0		eP	04:38:49		Dilatation	
	eS	02:20		iP	05:23:47.5		eP	21:47:10.1
	eP	15:31:01		iS	24:18.2		iS	25.5
	eP	16:25:59		iP	06:56:02.3	04	iP	01:54:54.7
	eS	26:14		iS	18.5		eS	55:26
	eP	19:46:57		iP	07:06:27.5		eP	04:38:21
	eS	47:14		i	32.2		eP	10:17:07
May. 01	eP	11:13:36		iS	40.4		eS	29
	eS	14:10		iP	10:47:14.0	(*)		
	iP	12:56:30.4		iS	45.6		iP	15:15:01.5
	eP	13:37:01		Compression			iS	18.9
	eS	35		iP	11:15:54.6		Dilatation	
	eP	13:46:42		iS	16:28.7		iP	15:33:44.8
	eP	13:56:12		Compression			iS	34:02.5
	iS	25.4		iP	11:32:14.8		Dilatation	
	iP	14:26:51.4		iS	28.5		eP	15:47:03
	iP	14:37:43.4		iP	12:39:12.8		iS	25.3
	iP	14:47:23.2		Dilatation			eP	18:54:27
	iP	14:57:05.4		eP	17:47:08		iS	51.1
	eP	15:24:04		iP	18:04:04.6		iP	19:57:21.3
	eS	19		iS	26.0		iS	34.8
	eP	16:11:49		Dilatation			Dilatation	
	eP	16:35:57		iP	18:07:55.9	05	iP	04:22:21.6
				iS	08:06.9		iS	40.5
				Compression			iP	05:09:32.8
							iS	49.4
							Dilatation	
May. 04	eP	11:28:07						
	iS	29:57.1						

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Date	Type	Time	Date	Type	Time	Date	Type	Time
May.05 1969	eP	05:46:38	May.06 1969	eP	10:24:58	May.08 1969	iP	12:29:28.0
	iP	05:51:05.6		iS	25:11.9		iS	30:03.0
	iS	28.1		eP	10:35:26		Compression	
	Dilatation			eS	54		eP	13:43:27
	eP	08:11:55		iP	12:51:59.2		From 08 at 13:43 to 15 at 02:53 station stopped.	
	eP	09:12:59		iS	52:10.6		From 15 onwards records on the second due to doubtful correction of time	
	eP	13:54:26		Dilatation				
	eP	15:04:04		iP	15:01:36.0			
	iS	21.4		iS	50.7			
	eP	15:14:41		Dilatation				
	iS	15:14.5		eP	16:22:47	15	eP	02:53:37
	iP	15:53:32.0		iS	23:05.8		iS	48
	iS	53.7		eP	17:14:49		Dilatation	
	Dilatation			iS	15:29.9		eP	12:48:34
	eP	16:13:03		iP	19:35:17.4		iS	59
	eS	31		Dilatation		16	eP	03:27:03
	eP	16:38:54	07	eP	04:01:15		eS	22
	eS	39:24		eP	10:05:23			
	eP	17:04:21		iP	12:40:22.5		eP	04:20:34
	eS	52		iS	32.7		eS	21:10
	eS	18:19:21		Compression			eP	09:45:15
	eS	48		iP	13:56:41.9		iS	33
	iP	19:44:46.8		iP	14:22:29.0		eP 12:39:31	
	iS	45:01.3		iP	16:46:30.2		eP	17:49:11
	Dilatation			iS	47:02.3		eS	28
	iP	23:09:38.1		iP	18:00:14.0		eP	19:31:34
	iS	54.9		iS	44.3		eS	32:07
06	eP	07:11:33		eP	19:30:19		eP	22:51:08
	eS	12:01		iS	46.8		From 17 at 21:55 to 18 at 22:23 seismograms failed	
	iP	07:28:45.5	08	iP	09:20:39.5		From 18 at 22:23 to 21 at 23:11 station stopped.	
	iS	29:04.2		Compression				
	eP	07:32:33		iP	11:43:57.3			
	eP	09:00:51		iS	44:13.0			
	eP	09:13:00		Dilatation		22	iP	00:48:37.1
	eP	09:43:41		eP	12:21:16		Dilatation	
	eS	44:10		iS	24.6		iP	01:05:18.1
				iP	12:24:28.8		iS	52.9
				iS	25:03.9		eP 10:51:38.4	
				Compression			iS	52.9

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May.22	iP	12:39:14.5	Jun.24	iP	22:26:28.8	Jun.27	iP	02:36:30.5	
1969	iS	46.1	1969	iS	49.4	1969	iS	49.1	
	Compression			Dilatation			Compression		
	iP	18:33:51.5	25	iP	01:28:58.5		iP	04:20:56.8	
	iS	34:23.2		eS	29:31		eS	21:16.1	
				iP	01:42:01.8		i	16.6	
	iP	21:12:27.7		eS	23		iP	05:42:00.2	
	eS	46.8		Dilatation			iS	07.1	
	Compression			iP	07:21:18.3		Compression		
23	iP	03:22:15.8		eS	30		iP	06:02:08.4	
	iP	05:50:21.6		iP	08:14 02.5		eS	42.0	
	iS	44.6		i	21		iP	12:53:33.0	
	iP	06:16:22.7		eP	12:43:39		Compression		
	iS	54.3		e	44:13		iP	16:15:25.3	
	iP	15:03:27.0		iP	13:09:30.3		iS	57.8	
	Dilatation			eS	02.9		Dilatation		
	iP	15:45:19.0		iP	13:49:33.4		eP	16:38:02	
	iS	34.7		eS	54.4		eS	25	
	Dilatation			eP	14:25:00		iP	18:39:26.1	
	From 23 at 22:38 to			iS	24.7		iS	40:02.0	
	28 at 21:30 station			Compression			Dilatation		
	stopped.			iP	15:04:47.6		iP	19:29:05.4	
29	iP	05:13:24.8		Dilatation			eS	31.2	
	iP	18:19:13.9		eP	16:11:02		Dilatation		
	iS	30.8		iP	16:18:18.4		iP	19:36:31.0	
	Dilatation			eS	52.9		Dilatation		
30	iP	11:29:02.4		iP	16:36:33.7		iP	20:05:14.2	
	iP	14:29:55.5		eS	37:05.6		i	14.4	
	iS	30:30.0		Compression			iS	49.1	
	eP	16:01:01		iP	18:49:27.6		iP	20:06:24.5	
	iS	21.6		iS	41.8		iS	36.5	
	iP	19:18:44.2		eP	19:16:12		Dilatation		
	iS	59.0		iP	19:46:59.8		iP	20:31:56.9	
	iP	21:36:21.0		iS	47:23.8		iS	32:30.7	
	eS	55		iP	21 02:28.7		Compression		
	From 1 to 24 at			On 26 seismograms			iP	20:35:05.1	
	24:00 station			failed.			iS	19.6	
	stopped			26	iP	18:15:29.3		28	
	24	iP	20:11:39.4		iP	22:30:42.7		iP	00:40:17.1
	iS	54.5		iS	59.8		eS	51.6	
	Dilatation			Dilatation			iP	02:53:12.1	
	eP	20:28:25					iS	29.7	
	eS	46					iP	04:06:34.6	

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Jun.28 eP	04:15:20	Jun.29 iP	07:19:30.8	Jul.01 iP	13:43:48.2	
1969 iS	16:23	1969 iS	55.3	1969 e	49.6	
iP	04:37:52.3	iP	07:52:15.0	iS	44:17.0	
eS	38:35.8	iS	30.6	iP	14:30:58.9	
iP	06:12:39.4	iP	08:05:29.0	iP	16:32:15.3	
iS	53.3	eS	55.8	eS	51.1	
iP	06:18:23.3	iP	08:40:48.8	Compression		
iS	43.7	iS	41:04.8	iP	16:34:27.2	
Dilatation		Dilatation		Dilatation		
eP	08:24:20	eP	10:02:14	iP	17:04:37.3	
eS	25:32	iS	42	iS	55.5	
iP	10:19:10.9	iP	13:52:20.8	Dilatation		
iS	42.7	eS	33.5	iP	19:08:07.1	
iP	10:58:35.5	iP	14:11:06.2	eS	28.1	
iS	45.1	eS	32.5	iP	21:04:34.3	
iP	11:30:02.0	eP	15:58:27	eS	05:05.0	
iS	17.9	eS	56	02 iP	06:59:29.2	
Dilatation		eP	16:07:32	eS	57.7	
iP	14:19:51.1	eS	56	eP	08:20:56	
iS	20:04.9	From 29 at 16:07 to Jul. 1 at 04:54 no records due to doubtful correction of time.			iP	10:14:46.1
Dilatation		Jul.01 iP	04:54:39.7	Compression		
iP	17:13:11.4	eS	54.5	iP	12:52:40.2	
eS	37.0	iP	05:53:55.6	eS	51.1	
iP	17:38:22.2	eS	54:17.3	iP	14:48:24.5	
eS	42.3	iP	07:22:33.9	eS	47.6	
iP	18:26:41.2	Dilatation		iP	16:16:06.5	
eS	27:14.4	iP	07:58:06.4	iP	16:46:57.2	
eP	20:02:46	iS	37.9	iS	47:30.3	
iP	22:32:13.7	Dilatation			Compression	
29 iP	00:08:28.1	iP	09:25:42.3	iP	17:08:37.8	
iS	10:01.1	Dilatation		iS	09:07.1	
iP	02:13:37.8	iP	10:14:35.7	iP	17:57:24.2	
iS	14:05.9	iS	15:08.9	e	25.4	
iP	02:43:00.3	Dilatation		eS	47.1	
eS	23.4	iP	13:36:29.4	i	48.5	
iP	03:12:39.7	iS	37:43.0	iP	20:08:27.9	
iS	54.9	Dilatation			eS	52.3
Dilatation		Dilatation			iP	20:34:43.1
eP	06:08:42	Dilatation			03 eP	04:06:32
eS	09:05	Dilatation			eS	07:02

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Jul.03 eP 06:22:19	Jul.04 iP 14:45:21.2	Jul.06 iP 00:21:22.5
1969 eS 40	1969 iS 35.2	1969 iS 52.7
iP 06:35:18.9	Dilatation	Dilatation
iS 42.6	iP 14:56:20.6	eP 03:57:00
eP 10:36:11	iS 36.9	eS 58:12
iS 44.7	Dilatation	iP 05:16:47.2
eP 11:15:38	iP 15:25:02.0	iS 17:19.7
iS 57.5	eS 38	Compression
iP 12:11:26.5	Dilatation	iP 06:16:35.7
iS 54.9	iP 15:39:39.6	iS 17:08.2
Compression	iS 58.0	Dilatation
iP 12:28:15.9	Dilatation	iP 08:00:18.2
Compression	iP 16:32:17.6	iS 34.3
eP 15:58:45	Dilatation	Compression
iS 59:16.1	eP 19:33:44	iP 08:40:35.4
iP 16:30:41.4	eS 55	eP 19:23:32
iS 56.4	05 iP 03:24:13.2	eS 59
Dilatation	iS 40.7	07 iP 12:35:55.9
iP 16:57:05.7	Dilatation	iS 36:27.3
iS 58:37.8	iP 05:57:21.3	Dilatation
Dilatation	iS 30.7	iP 12:51:41.7
eP 19:49:30	Dilatation	eS 52:17
eS 57	iP 07:07:52.6	Compression
iP 22:19:09.0	iS 08:14.1	eP 13:22:25
Dilatation	Dilatation	iS 59.4
eP 23:20:00	iP 08:31:40.1	eP 13:35:43
eS 21:26	eS 57	iS 36:00.6
04 iP 08:36:47.7	eP 08:32:16	eP 16:34:46
eP 09:03:56	eS 32:47	eS 35:14
eS 04:20	iP 14:56:28.7	eP 18:35:46
iP 09:07:34.2	eS 42.8	iS 36:24.1
eS 08:06	Dilatation	IP 18:53:32.2
iP 10:20:19.8	iP 15:25:41.5	iS 54:04.2
iS 31.5	iS 26:13.2	Dilatation
Dilatation	iP 16:39:39.9	iP 19:18:53.2
eP 12:23:46	iS 45.3	iS 19:10.7
eS 24:00	iP 19:06:30.4	Dilatation
iP 13:03:25.4	iS 07:04.9	eP 19:57:23
eS 04:00	eP 19:50:59	eS 42.0
iP 23:58:48.3	eS 51:16	iP 22:54:04.3
iS 59:02.4	iP 23:58:48.3	iS 22.5
Dilatation	Dilatation	Dilatation
	iS 59:02.4	iP 23:35:36.3
		iS 36:07.7
		Compression

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Jul.08 1969 eP 01:19:28
iS 46.6
iP 01:48:50.9
iS 49:05
eP 01:56:30
iS 49.2
eP 02:00:55
eS 01:18
eP 02:18:42
iS 58.3
eP 04:44:48
iS 45:12.5
eP 06:11:40
iS 12:13.0
iP 07:44:23.8
iS 39.3
Dilatation
iP 07:57:32.8
iP 08:22:26.3
iS 49
Dilatation
iP 10:51:54.5
eS 52:48
Dilatation
eP 13:14:15
eS 41
iP 13:35:22.1
iS 54.0
Compression
iP 14:24:51.8
iS 25:17.3
iP 18:05:50.2
eS 06:10
iP 20:08:26.9
iS 40.4
Compression
09 eP 12:33:02
iP 14:47:11.5
iS 32.6
eP 17:43:47
eP 19:41:00

Jul.09 1969 iP 21:52:53.8
Compression
iP 22:01:45.7
iS 02:04.7
Dilatation
10 iP 01:41:00.2
iS 08.7
Compression
eP 05:59:06
iS 21.8
iP 08:04:11.7
eS 05:48
Compression
iP 08:43:09.1
Dilatation
iP 16:29:29.1
eS 30:01.5
Compression
iP 17:02:17.5
eS 32
Dilatation
From 10 at 17:59
to 14 at 18:57
station stopped
14 iP 18:57:28.1
eS 58:08
Dilatation
15 eP 02:05:59
eS 06:15
iP 03:15:35.1
iS 16:06.1
Compression
iP 05:49:50.5
Compression
eP 06:27:46
eS 28:08
iP 06:56:05.3
Compression
iP 07:02:57.2
Dilatation
eP 08:51:08
eS 52:13

Jul.15 1969 iP 10:16:47.0
iS 17:13.5
Compression
iP 11:11:29.3
iS 11:38.6
Compression
iP 15:11:51.6
eS 12:17
Dilatation
iP 17:44:31.1
iS 52.4
Dilatation
iP 23:10:20.5
iS 41.6
16 iP 04:51:13.6
iS 40.4
Compression
eP 05:59:27
iS 41.3
iP 06:25:30.7
iS 45.0
Compression
iP 06:46:56.1
iS 47:27.5
Dilatation
iP 07:47:19.5
iS 35.4
Dilatation
iP 07:54:17.5
iS 51.6
Compression
iP 10:07:10.6
iS 36.2
iP 10:21:52.8
Dilatation
iP 11:11:51.9
iS 12:13.0
Dilatation
iP 12:01:38.5
Compression
iP 15:31:06.6
iS 42.6
Compression

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Jul.16 1969	iP iS Compression	15:53:07.3 36.1	Jul.19 1969	iP iS Compression	09:16:33.4 58.9	Jul.21 1969	eP iS	10:34:55 35:13.6	
	iP Dilatation	17:09:48.8		iP iS Compression	11:43:56.5 44:14.4		iP iS Dilatation	12:22:46.2 23:20.2	
	iP iS Dilatation	17:31:52.0 32:17.7		eP iS	12:00:13.6 32.3		iP iS Dilatation	13:05:45.2 06:24.2	
17	eP iP Compression	01:50:57 02:12:57.9		iP iS Dilatation	12:14:37.0 51.4		eP iS	13:42:07 33.2	
	eP iS	05:39:39 40:08.8		iP i Compression	12:39:40.0 40:14.7		iP iS Dilatation	15:03:36.6 04:16.0	
	iP Dilatation	05:45:53.7		iP i Compression	15:27:11.0 21.5		iP i Compression	16:58:07.0 39.3	
	eP eS	06:37:02 31		iP iS Compression	16:05:24.1 47.5		iP Compression	19:21:22.9	
	eP iS	07:01:43 02:05.4		20	iP eS	15:16:59.4 17:20.3	22	iP eS Dilatation	02:13:54.7 14:25
	eP iS	09:00:44 01:04.0		eP eS	17:38:32 39:05		iP iS Dilatation	02:51:53.4 52:08.7	
	iP iS Compression	15:49:24.2 34.8		21	iP iS Compression	03:24:06.6 20.0		iP iS Dilatation	03:30:15.6 31.3
	From 17 at 21:24 to 18 at 21:35 station stopped			iP iS Dilatation	04:43:39.6 55.3		eP iS	04:10:57 11:14.8	
18	iP i i Dilatation	22:22:49.0 51.4 23:01.1		eP	05:46:45		iP iS Dilatation	07:03:43.8 04:15.6	
19	iP i Compression	03:18:28.0 41.5		iP i Compression	06:35:45.5 36:31.6		iP eS	07:18:54.5 19:22	
	iP iS Dilatation	03:40:34.9 48.4		eP i	06:48:42 49:13.8		iP iS	10:07:09.2 20.7	
	iP Compression	04:56:24.1		iP i Dilatation	08:52:08.8 26.0		iP i Compression	12:10:36.7 12:09.1	
	iP iS Dilatation	05:50:38.3 57.5		iP iS Dilatation	09:41:16.2 30.6		iP iS Dilatation	12:31:59.8 32:27.3	

PROVISIONAL READINGS AT SALINAS

Jul. 22 1969	iP	16:22:53.2	Jul. 24 1969	iP	07:37:20.0	Jul. 25 1969	iP	09:42:55.6	
	iS	23:17.7		iS	38.5		iS	43:09.6	
				Dilatation			Dilatation		
	eP	16:56:19		eP	09:00:07		iP	11:30:27.4	
	iS	58.8		eS	40		iS	51.4	
	eP	18:05:56		eP	10:19:17		iP	15:44:58.8	
	eP	18:51:47		eS	42		eS	45:33	
	iP	20:00:35.6		eP	10:48:07		eP	15:17:32	
	iS	51.9		eS	32		eP	18:38:09	
	Dilatation			eP	11:08:33		iS	40.9	
23	eP	02:08:49		eS	48		eP	20:05:44	
	eS	09:10		iP	11:59:13.1		eP	22:09:14	
	eP	04:38:43		Dilatation			eS	34	
	eP	05:01:14		iP	12:58:46.1		26	eP	02:54:08
	eS	46		eS	59:18		eS	43	
	eP	06:59:05		iP	15:21:35.3		eP	03:56:43	
	iS	27.5		eS	22:10		eS	51	
	eP	10:17:45		eP	16:48:02		eP	04:09:54	
	eS	18:10		eS	15		eS	10:28	
	iP	11:14:44.4		iP	17:07:20.0		eP	04:49:17	
	eS	15:19		iP	19:41:37.1		eS	59	
	Compression			iS	51.3		iP	05:00:28.7	
	iP	11:15:43.8		Dilatation			eS	43	
	eS	16:16		iP	19:45:43.2		Dilatation		
	Compression			Dilatation			iP	05:04:15.7	
	iP	16:55:47.8		eP	20:42:24		eS	43	
	eS	56:20		e	46		eP	06:45:48	
	iP	18:00:21.5		iS	58.0		eS	46:02	
	iS	46.5		eP	21:42:59		eP	08:04:11	
	Dilatation			iS	43:30.4		e	20	
	eP	18:08:31	25	iP	06:08:25.2		i	21.9	
	eS	43		Compression			eS	05:13	
24	eP	03:02:20		eP	06:29:15		eP	08:32:32	
	eP	05:10:44		eP	07:00:30		eS	46	
	eS	54		eS	57		eP	09:56:18	
	eP	05:12:21		eP	07:23:40		iS	40.0	
	eS	52		iS	24:13.1		eP	10:12:21	
	iP	06:31:58.4		iP	07:30:42.0		eS	42	
	iS	32:14.5		iS	56.8		eP	11:34:20	
	Dilatation			iP	08:26:50.8		eS	45	
				eS	27:31				
				Dilatation					

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Jul. 26 1969	eP eS	14:14:56 15:10	Jul. 27 1969	eP eS	17:44:11 45:03	Jul. 29 1969	eP iS	12:34:27 43.5
	eP e eS	15:50:08 34 40		iP Dilatation	18:29:21.2		eP i eS	13:08:50 09:05.3 10:38
	iP eS	17:07:27.6 57		eP eS	21:30:20 53		eP eS	13:37:16 51
	iP Compression	17:25:37.6	28	eP eS	00:20:29 46		iP Dilatation	14:43:49.1
	eP	19:34:21		eP eS	00:23:44 24:03		iP iS	15:41:35.5 49.3
	eP eS	21:03:02 35		eP eS	01:02:42 03:02		eP eS	15:48:06 32
27	eP eS	00:40:19 52		iP iS Dilatation	01:38:36.2 52.7		iP eS	18:25:59.3 26:45
	eP iS	01:21:46 22:04.1		eP eS	05:46:56 47:28	30	eP iS	02:46:47 47:13.2
	eP eS	01:35:43 36:07		iP iS Dilatation	07:18:47.1 59.2		iP iS Compression	07:00:12.8 44.8
	eP eS	03:04:06 26		eP iS	14:04.06 20.8		iP e eS	10:09:50.0 10#12 26
	eP	04:00:03		iP iS	15:57:27.3 45.1		iP eS	11:34:28.1 55
	eP	04:06:25		eP	17:22:24		iP eS	12:06:27.1 07:02
	eP iS	06:15:55 16:09.2		eP eS	20:23:03 31.8		eP eS	12:26:34 27:32
	eP iS	07:34:14 39.3		eP eS	20:35:04 19		eP iS	18:12:26 47.5
	eP eS	10:09:51 10:15	29	iP eS Compression	03:30:16.5 49		eP iS	18:51:35 50.1
	eP iS iS	11:46:01 09.5 38.8		iP iS Dilatation	05:47:17.8 32.3		eP	21:02:48
	iP	13:13:50.6		eP eS	07:53:12 39		eP eS	21:24:09 26
	eP eS	13:29:31 30:05		eP eS	08:21:50	Aug. 01	iP eS	18:48:27.0 59
	iP eS Dilatation	15:11:46.6 12:11		iP iS	11:54:14.1 48.4			22:01:04.7
	eP eS	16:22:20 47						

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Aug.02 1969	iP eS	01:06:22.7 46	Aug.08 1969	iP i i	02:20:32.7 56.9 21:02.9	Aug.21 1969	iP iS	03:59:24.1 55.9
	iP	02:55:53.8		iP iS	02:44:48.5 45:10.7		iP iS	06:32:37.2 33:12.0
	iP iS	06:38:06.8 32.3		iP	05:12:39.0		iP iS	09:49:43.0 50:19.1
	iP iS	08:01:29.6 51.4		iP i iS	07:21:25.3 38.6 46.1		iP iS	10:34:02.0 14.2
	iP iS	09:35:12.9 33.1		iP iS	09:00:28.5 01:04.0		iP iS	20:01:40.4 02:11.7
	iP iS	17:21:27.7 45.7		iP eS	14:41:16.2 40	Sep.24	iP iS	06:47:56.0 48:12.4
	iP iS	18:02:26.8 03:06.5		iP iS	20:08:37.1 55.8		Compression	
	iP iS	18:09:09.0 15.3		iP	20:53:20.3		iP iS	09:58:18.7 30.9
03	iP	14:32:02.6		iP	22:49:48.8		Dilatation	
	iP	19:06:31.6	13	iP eS	03:21:04.8 25		iP i i	12:08:18.7 53.2 56.0
	iP iS	21:17:24.3 58.8		eP eS	08:04:16 36		Compression	
	iP iS	23:53:27.2 43.4		iP iS	19:08:06.1 27.2		eP	18:11:30.5
04	iP eS	03:05:55.9 07:12.2		eP eS	08:04:16 36		iP eS	19:50:48.3 51:03
	iP	04:05:47.5		iP iS	21:20:24.3 41.8		Dilatation	
	iP iS	06:38:18.6 42.8	20	iP iS	00:11:22.5 55.5	25	eP	02:26:22
	iP iS	07:51:59.8 52:27.6		iP iS	17:30:45.9 31:07.3		iP eS	02:52:06.5 40
	iP iS	09:21:16.4 57.7		iP iS	19:15:47.6 16:00.6		Dilatation	
	iP iS	10:44:50.7 45:06.7		iP iS	20:13:35.5 50.3		iP iS	05:07:35.2 48.6
	iP iS	14:27:04.5 16.7		iP eS	22:59:55.4 00:25		Dilatation	
07	iP i i	15:58:37.9 44.8 51.9	21	iP iS	00:24:47.2 25:11.3		eP i	05:58:42 49.0
	iP iS	20:44:39.3 58.5		iP iS	02:35:14.0 26.0	26	iP iS	07:54:49.9 59.6
							Compression	

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Sep.26	iP	08:23:44.1	Sep.28	eP	16:11:20	Sep.30	iP	18:02:40.4
1969	iS	24:20.4	1969	eS	41	1969	iS	03:11.7
	Compression						Dilatation	
	eP	11:30:35	29	iP	01:50:09.8		iP	21:09:00.5
	iS	55.9		iS	34.6		eS	38
	Dilatation			Dilatation				
	iP	11:39:08.3		iP	02:07:37.3		iP	22:17:06.0
	iS	20.1		iS	54.4		iS	30.3
	Compression			Compression				
	iP	15:24:44.4		iP	02:40:06.1	Oct.01	iP	03:17:40.2
	eS	25:10		iS	26.4		eS	18:23
	Dilatation			Compression				
	eP	15:49:31		eP	03:39:05		iP	04:50:06.6
	iS	59.4		iS	29.0		iS	23.8
	Dilatation			Dilatation			Compression	
	iP	18:08:57.9		iP	08:55:54.3		eP	05:08:35
	Dilatation			iS	56:09.3		e	43
							e	51
27	eP	09:11:25		iP	09:41:09.5		iP	08:17:31.8
				eS	44		iS	18:04.5
	iP	12:19:40.1		Dilatation			Dilatation	
	Compression			eP	12:35:53		iP	08:48:14.1
	iP	12:37:34.9		eS	36:24		eS	33.5
	Compression							
	iP	19:45:30.9		iP	16:39:22.7		eP	09:38:02
	iS	45.9		eP	17:57:09		eS	28
	Compression			iS	27.2		Compression	
	iP	20:06:54.5		iP	18:25:12.9		iP	10:27:49.7
	e	07:18.6		iS	23.7		iS	28:04.0
	e	27.7		Dilatation			Dilatation	
	iP	20:41:29.5		iP	20:24:01.4		eP	18:31:54
	iS	41.8		iS	33.0		eS	32:18
	Compression			Dilatation				
28	eP	04:33:46	30	iP	01:52:44.3		eP	20:02:14
	eS	34:16		iS	53:18.6		eP	20:33:31
	Dilatation			Dilatation			eS	43
	iP	04:59:55.0		eP	05:00:04.			
	iS	00:02.6		eS	00:38		iP	21:00:34.6
	Dilatation						iS	51.8
	eP	07:46:10		eP	05:18:40	02	iP	04:50:08.4
	iS	35.6		eS	19:00		eS	52:13
	Dilatation							
	iP	11:07:02.5		iP	06:11:56.6		iP	05:51:55.8
	iS	28.7		iS	27.8		eS	52:13
	Compression			Dilatation				
	eP	14:43:49		iP	07:49:18.0		iP	07:04:37.3
				iS	31.1		eS	51
	iP	12:05:03.0		iP	12:05:03.0		iP	11:23:18.4
	iS	35.2		iS	35.2		iS	37.5
	Dilatation			Dilatation				

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Oct.02 iP 12:31:43.9
1969 eS 32:12
iP 13:14:30.7
iS 47.8
iP 15:11:18.6
iS 31.2
Dilatation
iP 15:34:47.6
iS 35:00.2
Compression
iP 16:21:19.5
iS 40.8
iP 17:45:34.4
eS 46:12
04 iP 23:14:27.3
eS 55
05 iP 00:15:43.7
iS 58.8
Compression
eP 03:53:03
iP 06:52:55.8
iS 53:09.7
iP 07:21:06.2
iS 21.6
iP 09:41:54.5
iS 42:26.1
Compression
iP 11:28:24.3
iS 40.5
Compression
iP 12:07:11.5
Dilatation
iP 12:35:24.2
iS 36:03.1
iP 13:30:07.9
eS 37.7
iP 14:03:27.2
iS 42.2
iP 14:44:28.7
eS 49

Oct.05 iP 15:34:25.9
1969 iS 52.7
Compression
iP 15:59:58.1
iS 00:25.8
eP 16:07:40
06 iP 02:58:29.9
iS 38.4
Compression
iP 03:35:33.4
eS 36:04
iP 08:08:12.7
e 37
iS 44.3
eP 08:38:40
iP 15:32:49.1
iS 33:15.8
Compression
iP 18:12:13.8
iS 27.0
iP 18:29:12.4
iS 35.4
iP 19:26:59.2
iS 27:12.6
iP 21:25:47.0
iS 26:18.8
Dilatation
07 iP 00:54:10.2
eS 44
Compression
iP 02:47:20.1
iS 54.7
iP 07:12:57.2
iS 13:16.9
iP 16:26:16.8
Compression
iP 18:42:29.0
iS 30.2
Compression
08 iP 02:44:13.1

Oct.08 iP 03:55:11.2
1969 iS 56:06.4
eP 07:49:26
eS 46
iP 10:06:34.8
iS 53.8
eP 11:13:17
eS 48
iP 18:43:01.5
iS 17.5
iP 19:01:47.3
eS 02:20
eP 21:42:31
eS 43:03.1
11 iP 23:21:37.5
iS 53.2
eP 23:54:09
iP 09.6
12 iP 01:01:07.4
Dilatation
iP 02:06:39.9
iS 55.6
iP 05:20:16.2
iS 37.8
iP 05:27:21.3
iS 54.8
Dilatation
eP 07:17:37
iS 18:13.7
iP 07:41:15.5
iS 39.6
Dilatation
iP 09:53:37.3
iS 57.8
Compression
iP 10:49:59.6
eS 50:23
i 24.1
Dilatation
iP 13:12:37.0
iS 53.6
Compression

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Oct.12 1969	iP 14:23:43.7 iS 24:10.6 eP 16:42:41 eS 58 eP 17:27:11 eP 19:56:37 i 57:00.9 eP 23:24:04 iS 35.8	Oct.15 1969	iP 04:14:34.2 iS 05.8 iP 05:14:25.4 eS 45 iP 06:08:15.6 i 53.6 eS 56 iP 16:53:25.0 iS 40.0 Compression	Oct.19 1969	eP 03:42:28 eS 49 iP 14:27:18.6 iS 36.6 Compression eP 17:31:41 eS 32:14 iP 18:16:20.4 iS 40.7 Compression
13	iP 01:55:51.2 iS 56:17.1 iP 04:50:23.8 iS 51:36.3 iP 12:25:17.8 eS 34 eP 18:33:28 eS 34:00 iP 19:19:53.9 iS 20:13 eP 19:34:35 eP 21:17:08 iS 30.1	16	iP 18:42:21.5 eS 53 eP 18:53:51 iS 54:02.8 eP 19:29:39 eS 30:05 iP 20:27:14.1 eS 38 18 eP 02:25:28 eS 48 eP 02:29:39 eS 30:13 eP 02:42:24 eS 59	20	eP 03:07:38 eP 03:30:55 eS 31:06 eP 05:37:52 eS 38:04 eP 07:51:21 i 22.2 iS 46.3 iP 08:31:23.2 eS 56 eP 09:15:08 eS 27 iP 12:03:47.0 iS 04:21.6 iP 20:51:10.3 eS 50 Dilatation
14	iP 00:16:12.2 i 19.6 e 37 iP 01:59:01.7 e 35 iS 36.9 eP 03:24:07 iS 36.2 eP 06:32:34 eS 33:08 iP 08:11:00.8 iS 12:18.0 Compression eP 08:15:52 iS 16:08.7 iP 11:05:54.9 eS 06:09 Compression	19	iP 07:39:30.7 eS 50 eP 09:21:24 eS 48 iP 11:48:32.8 iS 48.3 Compression eP 15:17:53 eS 18:06 eP 17:32:08 iS 20.4 19 iP 00:34:47.5 iS 58.0 Dilatation iP 02:24:44.2 eS 25:19	21	iP 01:01:48.0 iS 02:10.0 Dilatation eP 02:40:34 iS 43.8 eP 11:29:31 eP 15:00:38 eS 01:07 iP 16:24:55.3 iS 25:08.0 eP 17:41:04 eP 22:28:09 eS 32

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Oct. 22 1969	iP eS	00:46:25.3 37	Oct. 25 1969	iP eS	01:06:31.8 07:07	Oct. 27 1969	eP i	10:24:57 59.2
	iP	01:04:15		Dilatation			28 eP	05:44:34
	iS	27.2		eP	02:47:28		eS	54
				eS	38			
	iP	04:08:54.7		iP	06:03:28.0		eP	22:13:41
	iS	09:25.4		eS	48		eS	14:03
	Dilatation						iP	22:51:44.3
	eP	06:52:13		iP	08:22:56.6		iS	52:02.7
	eS	42		eS	23:19		Dilatation	
	iP	08:18:32.4		eP	08:43:08		29 eP	03:11:13
	iS	46.4		eS	42		i	12:20.6
	iP	10:23:07.1		iP	09:41:29.6		iP	04:26:39.5
	i	10.0		iS	42:04.0		eS	27:01
	iS	48.3						
	iP	17:05:05.0		iP	15:36:38.0		iP	11:20:15.0
	eS	41		eS	51		iS	31.1
	eP	17:13:34		eP	20:48:16		Dilatation	
	eS	49		eS	34		iP	17:32:07.1
	iP	20:29:26.1		26 iP	01:16:11.5		Dilatation	
	Compression			eS	46		eP	19:08:56
							eS	09:26
23	iP	01:13:03.8		iP	03:26:30.1		30 eP	02:49:26
	iS	25.3		iS	27:02.3			
	Dilatation			Dilatation			iP	07:08:22.3
	eP	04:34:28		eP	08:37:49		iS	51.3
	eS	35:04		eS	38:11		Compression	
	iP	05:06:32.3		iP	15:18:19.0		eP	13:41:11
	iS	46.0		eS	51		iS	22.9
				Dilatation				
24	iP	03:32:59.0		eP	15:25:22		eP	18:27:59
	eS	33:34		eS	39		eS	28:42
	Dilatation						iP	22:34:06.0
	eP	06:32:13		eP	15:36:13		iS	35:22.9
	eS	52		eS	30		Compression	
	eP	07:51:39		eP	22:56:08		iP	22:59:21.7
	eS	52:00		eS	42		iS	36.0
	iP	18:10:58.6		27 eP	00:07:30		Compression	
	eS	11:13		eS	53		31 eP	04:15:23
	iP	18:19:31.8					eS	42
	iS	51.6		eP	00:29:17		iP	08:17:31.7
	iP	19:47:36.8		iS	56.9		iS	47.2
	iS	48:14.6		Compression			Compression	
	iP	22:11:03.0		iP	03:16:31.4		eP	10:29:04
	Compression			iS	17:05.8		eS	35
				Dilatation				
				iP	05:47:04.9			

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Date	Time	Phase	Time	Phase	Date	Time	Phase	
Oct. 31 1969	10:36:25.5	iP	Nov. 03 1969	07:46:21	Nov. 14 1969	10:02:35.5	iP	
	37.0	iS					iS	
		Compression						
	11:21:58.6	iP		10:25:50		10:51:58	eP	
	22:18.9	iS		26:07		52:10.3	i	
	13:26:38	eP		12:05:58		11:47:26	eP	
	27:15.4	iS		06:30		27.6	i	
	20:40:18	eP		12:13:10.3		11:54:49	eP	
	52	eS		21.2		58.5	i	
				33.2				
				Compression				
Nov. 01	From 01 at 00:34			12:46:37	15	00:52:53.5	iP	
	to 11 at 22:05			41.5		53:30.5	e	
	time with error of			47:24.1		03:44:36.0	iP	
	± 0.5 appr.						Dilatation	
				14:27:05		05:58:23.0	iP	
01	00:34:53	eP		22		32.0	i	
	35:19	eS				35.3	i	
	01:32:58	eP		19:40:51.3		40.9	i	
	33:16.0	iS		41:06		Compression		
	01:51:58	eP		Compression			eP	
	52:30	eS		From 03 at 22:44 to		08:17:27		
	08:42:25	eP		11 at 22:05 station		12:02:35	eP	
	43:04	eS		stopped				
	10:47:56	eP	12	14:00:51	16	07:04:33.0	iP	
	48:10	eS		01:18.8		Compression		
	12:16:29	eP		Time with error		08:21:47	eP	
	17:07	e		± 1.0 appr.		09:55:53.4	iP	
	13:47:03	eP				56:08	e	
	27	eS		13		Compression		
	19:44:21	eP		02:53:12		14:39:09	eP	
	46	eS		39				
	19:06:43.7	iP		Time with error		11:52:43	eP	
	07:17	eS		± 0.5 appr.				
	Dilatation					12:13:45.5	iP	
	21:58:41.3	iP		iP		14:19.0	i	
	54.6	iS		07:52:44.3		Compression		
	Compression			53:27.5		12:19:58	eP	
	23:52:02.9	iP		Compression				
	35	eS		iP		01:49:35	eP	
	Compression			11:50:35.7				
	06:47:21.3	iP		Compression				
	41.0	iS		eP		08:21:12.5	iP	
	Compression			14:35:17		22.5	i	
				33.3		09:46:34.5	iP	
				Compression		57	e	
03	07:21:41	eP	14	06:48:55.0	19	03:07:28.5	iP	
	51	eS		49:18		Compression		
				Compression				

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Nov.19 1969	iP e Compression iP iS Compression eP e	10:57:10.8 26 13:24:35.0 48.0 15:00:22 39	Nov.22 1969	iP i i iS	12:44:03.9 17.9 21.9 26.1	Nov.28 1969	iP iS iP e i Compression eP eS	11:21:42.7 22:00.0 14:34:47.6 Compression 18:34:07.2 23.2 26.9 Compression 15:04:25.1 40.5
20	iP iP i i i i iS Compression iP	00:16:28.2 10:34:11.1 28.5 32.0 37.2 41.2 44.1 48.6 52.1 Compression 13:32:23.8	25	iP iS iP iS Compression iP	03:35:22.4 39.3 05:38:15.8 36.0 Compression 09:19:52.1	29	iP iS iP iS Dilatation eP iS	10:19:15.2 51.5 Compression 13:00:52.0 01:01.6 13:28:59.4 29:35.3 Dilatation 13:32:01 14.8
21	iP iP i iS Compression iP Compression iP iP i i Compression 22	06:04:17.4 07:50:22.0 47.7 56.6 Compression 08:12:34.0 Compression 17:40:09.9 iP 18:28:42.5 29:17.8 Compression 01:19:33.6 iS 46.6 Compression 07:04:36.6 i 57.9 iP 07:18:08.7 i 10.5 i 26.0 iP 11:21:03.3 iS 16.4 iP 11:54:17.4 e 40.7	26	iP iS iP i i Dilatation eP eP e i 27	13:23:05.9 04:16:04.1 26.7 11:27:40.5 52.5 59.7 Dilatation 13:03:24 eP 13:43:46 56 44:16.0 07:26:44.4 iS 56.4 iP 15:28:00.6 eS 34.1 Compression 28	18 19	iP iS Dilatation iP eS iP eP eS eP eS iP eS iP eS	22:45:05.3 16.4 Dilatation 06:46:07.7 43.5 08:08:49.2 11:52:18 52.6 16:10:51 11:03.4 17:20:20.4 49.5 17:37:39.4 56.5
			From 22 at 19:37 to 24 at 22:23 seismograms failed.			Dec. From 1 to 17 at 22:25 station stopped.		

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PROVISIONAL READINGS AT SALINAS

Dec.20	eP	03:57:35	Dec.22	iP	06:30:05.0	Dec.25	eP	15:00:10
1969	iS	58:52.8	1969	iS	31.1	1969	eS	23.9
				Compression				
	iP	07:49:39.7		iP	10:20:25.6	26	iP	00:50:20.7
	iS	52.7		iS	40.5		iS	47.6
				Dilatation			Dilatation	
	iP	08:32:27.5		iP	16:15:48.7		iP	13:51:14.9
	iS	53.4		iS	16:02.6		eS	29
	iP	13:42:55.6					iP	14:32:54.7
	eS	43:10.8	23	iP	01:40:36.5		eS	33:16
	iP	15:19:46.3		iP	03:54:47.2		iP	14:49:28.1
	iS	55.6		eS	58.9		eS	37.9
	iP	16:39:53.5		iP	05:04:36.5		iP	21:57:17.4
	eS	40:14.2		eS	48.7		iS	34.2
21	iP	00:27:52.2					Dilatation	
	iS	28:28.0		iP	05:31:27.7		iP	23:44:49.6
				eS	39.5		eS	45:23.8
	iP	00:49:01.0		iP	08:03:50.0	27	iP	02:48:53.4
	iP	02:08:46.7		iS	04:08.1		eS	49:13.7
	eS	09:13.8					iP	03:40:29.1
	iP	02:50:52.9		eP	14:50:49		eS	51.7
				eS	51:10			
	iP	04:31:31.0	24	iP	03:16:16.0		iP	06:34:59.1
	eS	32:05.4		iS	25.1		eS	35:39.2
				Dilatation				
	iP	12:10:37.1		iP	04:39:28.3		eP	08:11:24
	eS	11:03.8		iS	45.3		iP	19:45:20.6
	iP	13:05:37.3					iS	44.0
	i	38.0		iP	06:20:53.6			
	i	06:52:0		iS	21:26.2		iP	21:34:40.3
	iS	56.2		iP	06:43:27.7			
	eP	19:05:41		eS	44:02.3	28	iP	06:17:21.0
	eS	06:15.2					iS	34.7
				iP	12:54:43.5		Dilatation	
22	iP	00:07:42.8		iP	13:39:09.7		iP	09:07:40.8
	iS	08:52.9		iS	20.7		iP	10:20:34.3
	iP	00:11:51.5					eS	21:00.6
	eS	12:24.4		eP	16:52:10			
				iS	53:12.2		iP	12:05:10.5
	eP	02:06:40	25	iP	04:28:34.6		iS	27.4
	eS	07:00.3						
	iP	04:07:00.6		iP	05:08:19.8		eP	13:04:38
	eS	35		eS	38.7		eS	59.1
	iP	05:46:58.9		iP	05:12:26.7		iP	13:27:29.0
	iS	47:27.6					Dilatation	
	Dilatation			iP	05:21:01.4		iP	13:55:27.8
				Compression			eS	44

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9 SEP 1969

PROVISIONAL READINGS AT PELDEHUE
33° 08' 37" S 70° 41' 07" W h 690 m

Jan.24 1969	iP 15:06:07.2 iS 41.5 Dist. 315 Km.	Feb.03	eP 09:03:30.5 Distant shock iP 10:49:14.5 eS 30 Dist. 125 Km.	Feb.10	eP 00:59:16 eS 28.8 Dist. 110 Km.
	eP 16:48:13 eS 27.5 Dist. 125 Km.		eP 22:01:(13)		eP 06:08:53.8 eS 17 Dist. 210 Km.
	eP 20:44:(55) eS 42.5 Dist. about 455 Km.	05	eP 04:31:55.5 eS 32:05.5 Dist. 80 km.		iP 20:54:06.4 iS 08.6 Local
	eP 22:08:03 eS 24.7 Dist. 195 Km.		eP 07:57:36.5 eS 58:01.3 Dist. 230 Km.		eP 23:00:20 eS 41 Dist. 190 Km.
	eP 22:24:19 e(S) 53:8		eP 10:56:01.5 Distant shock		eP 23:10:15 Distant shock
	eP 23:57:57 eS 58:15 Dist. 160 Km.	06	eP 04:29:50.5 eS 30:14.5 Dist. 220 Km.		eP 23:19:41 Distant shock
25	eP 05:38:51.2 Distant shock		eP 05:44:16.5 eS 38 Dist. 205	11	eP 01:23:57 eS 16 Dist. 170 Km.
	iP 15:06:12.5 iS 35.2 Dist. 205 Km.		eP 08:27:30.5 eS 45 Dist. 125 Km.		eP 01:26:41.5 eS 57.5 Dist. 140 Km.
Feb.02	eP 17:40:54 Distant shock		eP 20:59:47 Local		eP 02:35:54.5 eS 17.8 Dist. 215 Km.
	eP 18:08:21.5 Distant shock	08	eP 20:27:18:3 eS 28:12 Dist. 520 Km.		iP 18:57:56.5 eS 59.5 Local
03	eP 01:33:28 eS 48 Dist. 180 Km.		eP 21:17:50.5 eS 18:15.5 Dist. 230 Km.		eP 22:34:34 Distant shock ?
	iP 07:29:24 eS 38 Dist. 120 Km.	09	eP 08:32:44.5 eS 18 Dist. 315 Km.	12	iP 08:45:13.5 eS 26.6 Dist. 110 Km.
	iP 07:33:06.5 iS (13) Dist. about 40 Km.		eP 12:40:15 eS 32.5 Dist. 155 Km.		eP 18:21:51 eS 22:18 Dist. 250 Km.
	eP 07:52:37.5 eS 53:02 Dist. 225 Km.				

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 PROVISIONAL READINGS AT PELDEHUE
 33° 08' 37" S 70° 41' 07" W h 690 m

Feb.12	eP 20:29:05	Feb.17	eP 23:00:47.3		
	eS 30:10		eS 01:02.5		
	Dist. 630 Km.		Dist. 130 Km.		
13	iP 02:10:37	18	eP 00:58:39	Feb.20	eP 12:50:21.5
	iS 55.5		eS 53.2		Distant shock
	Compression from NE		Dist. 120 Km.		eP 13:15:04.5
	Dist. 165 Km.		eP 03:20:19.3		Distant shock
	eP 03:38:45.8		eS 58.5		eP 13:48:39.7
	eS 02.6		Dist. 370 Km.		Distant shock
	Dist. 150 Km.		eP 12:54:00.7		eP 17:17:49.5
14	eP 20:05:06		eS 40.0		Distant shock
	eS 24.7		Dist. 375 Km.		eP 17:54:37.5
	Dist. 165 Km.		eP 19:21:01.7		i 46
	eP 21:42:11.8		eS 17.5		eS 36.2
	eS 26		Dist. 140 Km.		Dist. 565 Km.
	Dist. 120 Km.	19	iP 03:52:32	21	iP 04:02:20
15	eP 00:05:50		eS 40		eS 33.3
	eS 06:13.5		Dist. 60 Km.		Dist. 115 Km.
	Dist. 215 Km.		Compression		eP 07:29:53
16	eP 03:09:05.6		iP 13:48:33.5		Distant shock
	eS 17.5		iS 59	22	eP 20:45:12.8
	Dist. 100 Km.		Dist. 135 Km.		eS 32
	eP 03:44:58		Dilatation from NE		Dist. 170 Km.
	eS 45:15.5		iP 20:57:54.8	23	ePKP 00:56:27
	Dist. 155 Km.		Local		ePP 01:00:15
	eP 07:40:13.5		eP 22:01:54.8		eSKKS 07:06
	eS 48.7		eS 02:33.5		eSKSP 10:20
	Dist. 330 Km.		Dist. 365 Km.		eSS 19:47
	eP 19:49:54.3		eP 23:06:35		eG 26:18
	eS 50:43		eS 48		Dist. about 154°
	Dist. 465 Km.		Dist. 110 Km.		eP 05:21:07.5
17	ePKP 01:02:41		iP 23:45:00		eS 22:06.7
	Distant shock		iS 44		Dist. 570 Km.
	eP 01:35:27.5		Dist. 420 Km.		eP 17:47:04
	Distant shock		Compression		Local
	eP 10:05:37	20	eP 10:15:10.5		eP 19:07:50.6
	eS 06:20.5		Distant shock		Distant shock?
	Dist. 415 Km.		eP 11:12:59.5		
	eP 20:48:41		Dist. Distant shock		
	eS 49:10.5		eP 11:23:42		
	Dist. 275 Km.		Dist. Distant shock		

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PROVISIONAL READINGS AT CONCEPCION

Jan.13 eP 14:40:52	Jan.14 eP 13:56:15	Jan.20 eP 02:10:46.5
1969 eS 41:04.5	1969 eS 28.5	1969 eS 11:03.5
Dist. 100 Km.	Dist. 110 Km.	Dist. 140 Km.
eP 14:42:24	eP 19:11:02	22 eP 12:28:43.5
eS 37	iS 15	eS 29:00
Dist. 105 Km.	Dist. 105 Km.	On minute mark
eP 14:51:11.5	15 eP 01:32:32.5	Dist. 135 Km.
eS 24.5	eS 43.5	24 eP 01:16:13
Dist. 105 Km.	Dist. 90 Km.	iS 18
14 eP 02:23:03.5	eP 02:42:11.5	Dist. 45 Km.
iS 19	eS 24	26 eP 16:07:12
Dist. 125 Km.	Dist. 100 Km.	iS 16.5
eP 02:24:34	eP 09:34:26.5	Dist. 40 Km.
iS 48	eS 41	27 eP 01:17:57
Dist. 112 Km.	Dist. 117 Km.	eS 18:11
eP 02:29:49	eP 14:10:02	Dist. 110 Km.
eS 30:04	eS 17	eP 01:31:39
Dist. 120 Km.	Dist. 120 Km.	eS 56
eP 04:48:00	eP 17:37:11	Dist. 140 Km.
eS 14	eS 23	eP 02:02:29
On minute Mark	Dist. 98 Km.	eS 41
Dist. 112 Km.	17 eP 06:32:49	Dist. 100 Km.
eP 05:25:53	eS 33:02	29 eP 06:31:49.5
eS 26:06	Dist. 110 Km.	iS 32:04
Dist. 105 Km.	18 eP 15:09:52	Dist. 115 Km.
eP 06:09:09	eS 10:05	eP 06:52:30.5
eS 24	Dist. 105 Km.	eS 47
Dist. 120 Km.	19 iP 18:48:24	Dist. 135 Km.
eP 08:09:14	iS 42	Feb.01 eP 22:10:20.5
eS 26	Dist. 150 Km.	iS 32.5
Dist. 98 Km.	Felt III at Concepción	Dist. 100 Km.

A. Sickinger
Seismologist

PROVISIONAL READINGS AT VALDIVIA

39° 47' 24" S 73° 16' 00" W h 12 m

Dec.07 eP 20:37:06	Dec.13 eP 09:46:17	Dec.18 eP 23:50;20
1968 e(S) 38:30	1968 eS 47:09	1968 eS 43
e 40	Dist. 480 Km.	Dist. 190 Km.
08 e(P) 01:55:41	16 eP 15:24:16.5	19 iP 02:55:48
eS 58	eS 27	iS 58
eP 20:23:40	Dist. 85 Km.	Dist. 80 Km.
eS 57	eP 19:23:24	Felt III at Valdivia
Dist. 140 Km.	eS 35	
	Dist. 90 Km.	

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PROVISIONAL READINGS AT VALDIVIA

Dec.19 iP	03:12:34	Jan.13 eP	07:02:46
1968 iS	43.5	1969 e(S)	03:39
Dist.	80 Km.		
		eP	09:24:57
28 iP	14:58:37.3	eS	25:42
eS	53	Dist.	430 Km.
Dist.	140 Km.		
		e(P)	14:18:56
e(P)	21:49:10	e	19:30
eS	21	e(S)	45
29 e(P)	10:56:18	19 ePKP	07:20:50
eS	30	eSKKS	31:09
		ePPS	37:22
		e	39:22
31 iP	13:59:47.2	eSS	44:03
iS	53.0	Dist.	153°
Dist.	40 Km.		
Jan.03 eP	11:42:00	iP	12:52:41.5
1969 eS	20	eS	48
Dist.	160 Km.	Dist.	50 Km.
04 eP	16:21:07	eP	18:48:21
eS	25	e(S)	49:26
Dist.	140 Km.	Dist.	Doubtful interpretation
05 eP	08:30:49	22 eP	12:28:10
iS	31:01.5	iS	33.3
Dist.	100 Km.	Dist.	200 Km.
08 iP	09:46:43	24 eP	02:44:59
iS	03.7	Dist.	Distant shock
Dist.	180 Km.		
		iP	02:54:45
		Dist.	Distant shock
10 iP	07:06:21.5		
eS	32	eP	22:06:45
Dist.	80 Km.	iS	07:01
		Dist.	Distance 130 Km.
eP	11:55:48		
iS	53.3	25 eP	16:14:28
Dist.	40 Km.	eS	40
		Dist.	100 Km.
11 iP	02:06:17.8		
eS	24	29 i(P)	06:32:45
Dist.	50 Km.	e(S)	33:07
		Dist.	Two shocks?
13 eP	06:36:40	30 eP	10:49:15
eS	37:23	Dist.	Distant shock
Dist.	360 Km.		
Felt	III at Valdivia		
eP	06:48:24.2	31 eP	16:36:15
eS	49:08	eS	25
Dist.	420 Km.	Dist.	80 Km.

R. Schulz
Seismologist.

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PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

Jan. 24 1969	eP 14:41:15.1 eS 51.8 Dist. 330 Km.	Jan. 27 1969	e(P) 01:04:37 e(S) 05:38.7	Jan. 31 1969	eP 04:34:31 e(S) 56.0
	eP 15:49:11.0 eS 47.7 Dist. 330 Km.		eP 18:37:05.6 eS 44.8 Dist. 350 Km.		eP 05:27:32 e(S) 45.6
	eP 18:34:09.4 eS 15.7 Dist. 60 Km.		eP 20:05:39.4 eS 06:16.7 Dist. 330 Km.		e(P) 09:16:41.9 Distant shock
25	eP 01:48:00.5 iS 07.9 Dist. 70 Km.		No records from 27- Feb. at 20:05 to 29 Feb. at 01:18.		eP 13:55:13.7 eS 50.0 Dist. 320 Km.
	eP 03:51:16.7 eS 52.7 Dist. 320 Km.	29	eP 01:18:59.8 eS 19:36.2 Dist. 320 Km.		eP 14:08:24.5 Distant shock
	iP 04:07:47.1 iS 08:29.4 Dist. 390 Km. Compression from E		eP 15:13:(27.5) e(S) 54.6		eP 22:08:33.0 eS 09:34.5 Dist. 590 Km.
	ePKP 05:39:08.3		e(P) 16:11:42.8 eS 55.8		iP 23:17:38.3 iS 51.5 Dist. 110 Km. Compression from ESE
	eP 10:45:01.4 eS 39.5 Dist. 340 Km.		iP 17:42:37.8 iS 43:12.5 Dist. 310 Km. Compression from ESE	Feb. 01 1969	eP 06:14:53.7 eS 15:30.5 Dist. 330 Km.
	e(P) 16:04:15 eS 33.8		eP 17:46:10.2 eS 49.1 Dist. 350 Km.		eP 07:31:37.4 eS 32:23.5 Dist. 430 Km.
26	eP 01:36:28.5 e(S) 37:08.5	30	eP 04:08:26.8 eS 09:15.1 Dist. 450 Km.		eP 15:11:43.2 eS 12:20.7 Dist. 340 Km.
	eP 05:51:26.6 eS 46.5 Dist. 170 Km.		ePKP 16:49:33.5		eP 18:40:59 eS 41:37.5 Dist. about 340 Km.
	eP 09:31:22.2 eS 49.9 Dist. 250 Km.		eP 15:48:44.5 eS 49:20.5 Dist. 320 Km.		eP 19:20:36 eS 21:12.2 Dist. about 320 Km.
	eP 09:59:11.5 eS 41.4 Dist. about 270 Km.		eP 22:14:47.8 eS 15:13.5 Dist. 230 Km.		e(P) 22:41:04.5 eS 34.8
	eP 20:19:01.4 i 01.7 eS 39.9 Dist. 350 Km.		eP 22:35:06.7 eS 48.2 Dist. 390 Km.		eP 23:59:18.0 eS 50.8 Dist. 290 Km.
	eP 21:05:14.5 eS 32.2 Dist. 150 Km.	31	eP 01:04:12.0 eSKSP 17:28 eSS 26:00 eG 42.3 eR 52.0 Dist. about 142° Doubtful interpretation	02	iP 01:46:48.5 iS 47:06.2 Compression from E Dist. 150 Km.
					ePKP 01:58:44.0

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PROVISIONAL READINGS AT ANTOFAGASTA

Feb.02	eP	07:00:31.0	Feb.04	iP	03:01:35.9	Feb.06	iP	21:39:25.2	
	eS	59.2	1969	eS	02:11.1	1969	iS	41.2	
		Dist. 250 Km.			Dist. 310 Km.			Dist. 130 Km.	
	e(P)	11:40:16.5			Compression from SE			Dilatation	
	eS	36.5		eP	04:14:29.0	07	eP	00:01:09.2	
				eS	17:30		eS	49.4	
	eP	11:52:(08.1)		eSS	59			Dist. 360 Km.	
	eS	33.5		eR	18:54		e(P)	06:51:06.5	
					Dist. about 17°		eS	33.5	
	iP	16:19:14.0		e(P)	09:35:30				
	e(S)	59.0		eS	36:34.0		eP	07:33:29.3	
		Compression					eS	34:10.0	
	eP	19:29:49		eP	13:43:39.8			Dist. 370 Km.	
	eS	30:16.5		eS	44:00.0		eP	14:39:49.7	
		Dist. about 240 Km.			Dist. 170 Km.		eS	40:16.5	
	eP	19:59:35		iP	18:04:38.0			Dist. 240 Km.	
	e(S)	20:00:24.8		eS	05:13.5		eP	14:43:09.8	
	e	44.2			Dist. 320 Km.		eS	32.0	
	eP	20:43:44.5			Compression			Dist. 190 Km.	
	iS	49.7		eP	18:09:29.0		08	eP	17:49:23.8
		Dist. 40 Km.		eS	44.5			eS	50:03.2
03	eP	06:12:31.7			Dist. 130 Km.			Dist. 350 Km.	
	e(S)	14:09.0		e(P)	22:17:21		eP	18:51:05.7	
				eS	18:12.2				
	iP	18:22:36.2	05	eP	01:52:34.5	09	eP	05:55:23.8	
	eS	23:13.4		e(S)	54:06		iS	56:10.5	
		Dist. 330 Km.						Dist. 450 Km.	
		From SE		iP	13:04:57.5		e(P)	06:00:26	
	eP	21:57:16.0		iS	05:37.2		eS	48.0	
	iS	37.3			Dist. 360 Km.				
		Dist. 180 Km.			Compression		eP	06:21:51.4	
	eP	22:01:35.8		eP	23:37:16.5		eS	22:31.2	
	eS	12:16		eS	37.5			Dist. 350 Km.	
	eSS	18:14			Dist. 180 Km.		e(P)	11:09:36	
	eG	25:12	06	ePKP	07:52:40.0		eS	10:07.5	
	eR	31:28							
		Dist. about 89°		eP	07:57:28.5		eP	18:51:53.4	
04	eP	00:08:53.5		eS	59.9		eS	52:08.5	
	eS	09:13.2			Dist. 370 Km.		i	10.0	
		Dist. 170 Km.		eP	17:42:31.7			Dist. 120 Km.	
	eP	00:17:53.3		eS	43:07.0		eP	19:26:15.5	
	eS	18:14.1			Dist. 310 Km.		eS	52.0	
		Dist. 180 Km.		eP	18:43:21			Dist. 330 Km.	
	eP	01:35:39.7				10	eP	01:53:10.5	
	eS	36:09.0		iP	18:47:28.7		eS	33.2	
		Dist. 260 Km.		iS	48:06.0			Dist. 200 Km.	
	ePKP	01:58:25.3			Dist. 330 Km.		eP	02:49:47	
							e(S)	50:22.0	

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Feb.10 1969	eP 10:47:43.4 iS 54.8 Dist, 100 Km.	Feb.12 1969	e(P) 02:24:20.0 eS 47.9	Feb.15 1969	iP 00:33:44.5 iS 53.0 Dist. 80 Km. Compression from SSE
	eP 12:23:17 eS 44.8 Dist. about 250 Km.		e(P) 05:11:12.0 e(S) 51.7		e(P) 10:54:03 e(S) 15.0
	eP 22:58:32.0 eS 57.3 Dist. 220 Km.		eP 08:46:47.0 e(S) 48:13.2		eP 14:07:19.2 eS 24.3 Dist. 50 Km.
	e(P) 23:01:27.7 eS 02:59.7	13	iP 00:54:02.8 i(S) 18.2		iP 16:51:28.8 iS 51.2 Dist. 190 Km. Compression from E
	eP 23:12:57 eS 20:10 eScS 22:46 eSS 24:00 eG 25:24 eR 28.0 Dist. about 52°		eP 02:32:54.5 e(S) 33:19.7		eP 21:43:18.0 eS 45.0 Dist. 240 Km.
	e(P) 23:19:11.0 Local		eP 18:08:10 eS 34.9 Dist. 220 Km.		eP 22:29:51.8 eS 30:12.2 Dist. 170 Km.
11	iP 00:29:25.6 iS 30:02.9 Dist.440 Km. Compression from ESE		eP 18:26:44.7 eS 51.0 Dist. 60 Km.	16	iP 04:57:27.2 iS 58:05.9 Dist. 350 Km. Compression from E
	eP 10:20:58.8 e(S) 21:27.7	14	eP 20:49:06 eS 46.6 Dist. about 370 Km.		eP 05:14:59.2 eS 15:14.3 Dist. 120 Km.
	eP 13:05:28.0 eS 06:07.0 Dist. 350 Km.		eP 00:44:42 eS 48:08 eR 49.5 Dist. about 19°		e(P) 11:44:25.7 eS 45:34.5
	eP 15:54:45.7 eS 55:20.7 Dist. 310 Km.		eP 05:04:(03.0) eS 28.1 Dist. about 220 Km.		e(P) 13:22:12.5 eS 45.5
	e(P) 17:16:14.1 e(S) 40.5		eP 05:43:30.5 eS 56.8 Dist. about 230 Km.		iP 14:53:00.7 iS 42.3 Dist. 380 Km. Compression from ESE
	eP 21:03:29.4 eS 49.5 Dist. 170 Km.		eP 06:33:07.0 iS 23.0 Dist. 130 Km.		eP 15:28:57.2 iS 29:26.3 Dist. 260 Km.
	eP 22:28:44.0 Distant shock		eP 17:58:23.2 iS 59:22.3 Dist. 50 Km.		eP 19:50:23 e 30.5 e(S) 51:37.0
	ePKP 22:35:02.0		eP 19:40:35 eS 41:11.1 Dist. about 320 Km.	17	eP 01:02:54 eSKSP 17:08 eSS 26:10 eSSS 32:17 eG 46:00 eR 56.0 Dist. about 152°
12	eP 00:24:07.6 e 08.1 eS 42.0 Dist. 310 Km.		e(P) 22:23:27 eS 24:09.5		

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PROVISIONAL READINGS AT ANTOFAGASTA

Feb.17 1969	eP i(S)	02:59:34.1 53.2	Feb.19 1969	e(P) eS	04:15:12.5 39.4	Feb.20 1969	e(P) eS	19:35:25.5 28.2
	iP iS	14:45:37.8 52.5		e(P) e(S)	08:12:22.3 42.0		e(P) eS	22:10:21.5 37.7
	Compresión from W Dist. 120 Km.			e(P) eS	13:50:10 51:53.5		eP iS	10:08:26.7 38.2
	iP eS	16:26:40.6 27:02.3		eP eS	15:11:03.1 20.3		Dist. 100 Km.	
	Dist. 190 Km. Compression			Dist. 140 Km.			eP eS	19:35:31 36:21.5
	eP eS	19:05:16.7 20.6		eP eS	15:28:28.7 29:08.5		Dist. 310 Km.	
	Dist. 40 Km.			Dist. 360 Km.			eP eS	20:53:17.8 53.2
	eP eS	19:28:(32.5) 29:10.0		eP Local	18:06:10.8		Dist. about 340 Km.	
	Dist. about 340 Km.			e(P) e(S)	22:02:57.5 03:54.7	21	eP	01:24:05
	eP e(S)	20:49:50 51:19		Dist. about 300 Km.			Distant shock	
	e(P) eS	20:57:52.0 58:16.5		eP eS	22:53:05 37.7	22	e(P) eS	11:55:31.5 44.7
	Dist. 340 Km.			e(P) e e(S) i	23:45:36.5 46:30.7 46.3 47:16.0		eP eS	12:57:23 37.8
18	eP eS	09:36:24.7 51.3	20	e(P) eS	01:09:20 10:03.3		Dist. about 120 Km.	
	Dist. 240 Km.			e(P) eS	09:17:00 55.2		eP eS	17:45:41 46:10.8
	eP e(S)	12:55:07.3 56:31.7		Dist. about 144°			Dist. about 270 Km.	
	eP eS	13:31:32 40.3		ePKP ePP ePPP eSS eG eR	10:15:28 18:44 21:47 37:10 54.0 11:03.0	23	eP i eSKSP eSS eSSS eG eR	00:56:48.5 56.2 01:11:00 20:05 25:52 39.5 48:00
	Dist. about 80 Km.			Dist. about 144°			Dist. about 151° Doubtful interpretation	
	eP eS	17:54:46.9 55:13.3		ePKP i	10:50:07.5 15.3		ePKP	03:10:53.0
	Dist. 230 Km.			eP eS	20:25:40 26:05.2		Dist. about 220 Km.	
19	eP eS	00:13:15.5 52.3		Dist. about 220 Km.			eP e(S)	03:59:16.3 27.8
	Dist. 330 Km.			ePKP	17:03:10.0		Dist. 360 Km.	
	eP eS	00:52:36.3 53:15.8		e(P) Local	18:07:42.5		eP eS	05:19:37.4 20:17.0
	Dist. 360 Km.			Dist. 90 Km.			Dist. 360 Km.	

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PROVISIONAL READINGS AT ANTOFAGASTA

Feb. 23 1969	e(P) 05:21:16	Feb. 25 1969	eP 03:41:03	Feb. 27 1969	eP 05:16:50.7
	eP 05:34:21.2		e 10.0		eS 17:28.8
	eS 41.3		e(S) 16.7		Dist. 340 Km.
	Dist. 170 Km.		eP 05:05:25.5		eP 15:34:43.2
	ePKP 06:23:40.0		e(S) 06:05.5		e(S) 35:09.8
	i 45.7		e(P) 05:42:13.5		e(P) 16:57:12.2
	eP 17:09:20.2		eS 57.5		eS 44.3
	eS 47.7		eP 07:46:55.8		eP 18:53:(12.3)
	Dist. 250 Km.		Distant shock		eS 45.8
	iP 19:06:18.1		eP 08:15:11.2		Dist. about 310 Km.
	iS 42.5		eS 59.8		eP 22:10:27.4
	Dist. 220 Km.		eP 10:44:17.2		eS 11:07.2
	Compression from SSW		eS 37.4		Dist. 360 Km.
	e(P) 21:18:33.5		Dist. 170 Km.	28	iP 01:25:47.7
	eS 52.5		eP 19:02:34.0		iS 26:27.5
24	ePKP 00:28:19.5		eS 03:18.2		Dist. 360 Km.
	eSS 50:26		Dist. 400 Km.		iPKP 02:52:53.0
	eG 01:07:16		eP 21:34:13.0		ePKP 04:37:57.0
	eR 17.0		eS 20.9		eP 13:30:53.7
	Dist. about 145°		Dist. 70 Km.		eS 31:33.3
	eP 01:06:04.5	26	eP 00:19:05.0		Dist. 360 Km.
	e(S) 21.7		eS 29.2		ePKP 13:38:01.5
	ePKP 04:37:58.9		Dist. 210 Km.		eP 14:10:49.9
	eP 06:17:01.0		eP 01:58:24.6		eS 11:26.2
	eS 24.5		e(S) 43.0		Dist. 320 Km.
	Dist. 210 Km.		i 59:14.5		eP 17:57:40.6
	e(P) 08:59:35		eP 13:58:30.5		eS 48.2
	eS 09:00:30.5		eS 38.6		Dist. 70 Km.
	eP 09:36:13.5		Dist. 70 Km.		eP 22:13:42.0
	eS 37.5		iP 14:47:26.9		eS 14:03.3
	Dist. 210 Km.		i(S) 56.7		Dist. 180 Km.
	eP 16:30:46.6		Compression from S		
	eS 31:25.3		e(P) 19:28:35		
	Dist. 350 Km.		eS 29:28.5		
	eP 19:36:35.5	27	e(P) 03:32:54.8		
	i(S) 58.9		e(S) 33:11.5		
	e(P) 19:46:24		e 17.7		
	eS 46.0		eP 04:55:34.4		
25	e(P) 00:42:53.5		eS 56:10.0		
	e 43:00.3		Dist. 320 Km.		
	eS 59.6		eP 05:11:53.0		
			eS 13:38.8		
			Dist. 1030 Km.		

Y. Franulic
Seismologist



INTERNATIONAL SEISMOLOGICAL
SUMMARY
~~Kew Observatory,~~
~~RICHMOND SURREY ENGLAND~~

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IMPRESO ORDINARIO



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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

Feb.24	iP 08:17:56.7	Feb.25	eP 14:15:20.6	Feb.27	eP 05:13:48
	eS 18:17.5		Distant shock		Distant shock
	Dist. 190 Km.		eP 19:02:55		eP 17:14:50.1
	Dilatation from NW		eS 03:54.5		eS 15:04.7
	eP 08:36:07.5		Dist. 575 Km.		Dist. 125 Km.
	eS 20.7		eP 20:01:00.2		iP 18:33:11.8
	Dist. 110 Km.		eS 26.4		iS 22.2
25	eP 01:54:44		Dist. 240 Km.		Dist. 85 Km.
	Distant shock		iP 21:56:04.7		Dilatation from NW
	eP 07:48:01.5		iS 11.3	28	eP 00:21:37
	Distant shock		Dist. 45 Km.		eS 22:07
	eP 10:57:13.5		Compression		Dist. 280 Km.
	eS 25.5	26	eP 14:10:30		iP 01:22:18.0
	Dist. 100 Km.		eS 11:43		eS 31.0
	eP 12:44:20		Dist. 710 Km.		Dist. 110 Km.
	eS 48.5		eP 14:48:01.5		Compression
	Dist. 265 Km.		eS 49:(04.8)		eP 02:53:25.8
			Dist. 615 Km.		Distant shock

H. Becker
Seismologist

PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

Jan.25	eP 05:38:53.5	Feb.03	iP 06:29:15	Feb.17	ePKP 01:02:40
	Distant shock		iP 06:33:58		Distant shock
	eP 15:06:13		iP 09:49:07		eP 20:48:44.5
26	eP 01:06:51		07 eP 20:29:58	19	eP 03:52:35
	iS 07:41		eS 30:22		eS 44.2
	Dist. 480 Km.		Dist. 220 Km.		Dist. 70 Km.
	iP 06:22:12.5		10 eP. 23:00:24		eP 23:45:06.2
	iS 20.5		11 eP 01:24:01.5	20	eP 10:15:12.5
	Dist. 60 Km.		12 eP 08:45:19	25	eP 21:56:09
29	eP 06:32:54.5		13 eP 02:10:40.5	27	eP 18:33:13.1
	Distant shock		14 eP 09:30:50		eS 22.6
30	eP 10:49:24.5		eS 31:04		Dist. 75 Km.
	Distant shock		Dist. 120 Km.		Small
31	eP 01:04:42		eP 21:42:15.4		
	Distant shock		eS 31.5		
Feb.01	eP 22:10:39.5		Dist. 140 Km.		
	Small				

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PROVISIONAL READINGS AT CONCEPCION

36° 49' 41" S 73° 02' 42" W h 46 m

Dec.04 1968	eP 07:27:25.4 e 30.8 eS 52.2 Dist. 250 Km.	Jan.13 1969	eP 06:58:48 iS 59:02.5 Dist. 117 Km.	Jan.13 1969	eP 08:05:55 eP 08:06:20.5
05	eP 13:21:(01.5) eS 22.9 On minute mark Dist. about 195 Km.		iP 07:02:30 iS 42 Dist. 98 Km.		eP 09:03:16 eS 29 Dist. 105 Km.
08	eP 05:09:29.7 eS 10:18.5 Dist. 470 Km.		eP 07:07:38.5 iS 51 Dist. 100 Km.		eP 09:21:51 iS 22:02.7 Dist. 95 Km.
Jan.02 1969	eP 11:23:06.3 eS 13.3 Dist. 50 Km.		eP 07:08:17.5 eS 31 Dist. 110 Km.		eP 09:25:04.5 iS 17 Dist. 100 Km.
07	eP 06:07:06 eP 09:48:07 eP 14:16:30 eP 14:59:35		eP 07:13:00 iS 11.5 Dist. 92 Km. On minute mark		eP 10:12:51 iS 13:04 Dist. 105 Km.
08	eP 17:01:24 iS 38 Dist. 112 Km.		eP 07:14:26.5 eP 07:23:07 iS 18 Dist. 90 Km.		eP 12:45:55.5 eS 46:07.5 Dist. 98 Km.
12	eP 21:36:42.5 eS 58 Dist. 125 Km. eP 21:53:09.5 eS 24.5 Dist. 125 Km.		eP 07:23:07 iS 18 Dist. 90 Km.		eP 12:50:18 eS 33 Dist. 120 Km.
13	eP 06:29:22 eS 34.5 Dist. 100 Km. iP 06:36:51 iS 37:02.7 Dist. 95 Km. Felt IV at Concepción iP 06:48:33 iS 45 Dist. 98 Km. iP 06:50:23 iS 34.5 Dist. 92 Km.		eP 07:41:00 eS 13.5 Dist. 110 Km. On minute mark		eP 12:55:07 eS 21 Dist. 112 Km.
			eP 07:44:36 eS 49 Dist. 105 Km.		eP 13:22:49 eS 23:00 On minute Mark Dist. 90 Km.
			eP 07:47:51.5 eS 48:05 Dist. 110 Km.		eP 13:29:04.5 eS 16 Dist. 92 Km.
			eP 07:55:54 eP 07:59:26.5 eS 38 Dist. 92 Km.		eP 14:09:00 eS 13 On minute Mark Dist. 105 Km.
			eP 08:00:30 eS 42.5 Dist. 100 Km.		eP 14:19:07.5 iS 22 Dist. 117 Km.
			eP 08:05:12 eS 26 Dist. 112 Km.		eP 14:37:11 eS 23.5 Dist. 100 Km.

19 JUN 1969

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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

Mar.01 eP 10:10:17.6	Mar.02 eP 19:48:24.3	Mar.05 eP 14:11:36.0
1969 eS 35.3	1969 iS 39.0	1969 epP 53.5
Dist. 155 Km.	Dist. 125 Km.	e(PP) 54.0
Small		Dist. 34½°
iP 14:35:55.2	03 eP 14:10:29.9	h 100 Km.
iS 03.5	iS 42.7	T 0.6 A 15.0
Dilatation from NW	Dist. 110 Km.	
Dist. 65 Km.	eP 14:57:02.1	eP 16:30:48.8
eP 22:39:13.4	eS 58:58.5	Distant shock
eS 29.6	e 59:27.2	eP 19:52:42.3
Dist. 140 Km.	Dist. about 10°	e(S) 53:36.5
	iP 20:24:42.4	06 eP 01:10:38.2
02 eP 03:28:05.2	eS 25:10.5	Distant shock
eS 37.2	Small	eP 01:40:24.9
Dist. 300 Km.	Dist. 310 Km.	Distant shock
Small	iP 21:57:20.2	iP 01:59:34.5
eP 05:06:56.5	iS 39.9	iS 47.5
eS 07:50.2	Compression from NE	Dist. 110 Km.
Dist. 515 Km.	Dist. 175 Km.	Compression
iP 06:44:54.5	04 eP 02:05:52.9	eP 03:45:33.9
iS 45:10.7	eS 06:03.8	Distant shock
Dilatation	Small	eP 07:38:59.0
Dist. 140 Km.	Dist. 90 Km.	eS 39:14.4
eP 10:09:47.5	eP 04:45:05.7	Dist. 135 Km.
eS 10:20.9	e 22.1	07 iP 12:22:52.6
Dist. 315 Km.	eS 40.4	iS 23:11.5
Small	Dist. 325 Km.	Dilatation
eP 10:18:53.4	eP 07:05:28.4	Dist. 170 Km.
eS 19:26.6	eS 42.1	eP 15:25:39.8
Dist. 310 Km.	Dist. 115 Km.	iS 54.4
Small	Small	Dist. 125 Km.
eP 12:30:43.2	05 eP 00:23:38.0	eP 16:05:28.9
eS 31:00.1	eS 24:17.2	iS 44.2
Dist. 150 Km.	Dist. 370 Km.	Dist. 135 Km.
Small	eP 02:30:12.2	eP 19:12:09.9
eP 13:03:55.0	iS 38.4	eS 24.7
eS 04:13.5	Dist. 240 Km.	Dist. 130 Km.
Dist. 165 Km.	eP 03:29:20.7	08 eP 02:06:42.4
Small	iS 37.6	eS 51.3
eP 13:31:38.8	Dist. 150 Km.	Dist. 70 Km.
eS 32:01.4	eP 12:40:20.4	eP 02:07:45.6
Dist. 205 Km.	eS 49.5	iS 08:14.4
Small	Dist. 270 Km.	Dist. 270 Km.
eP 19:44:34.0	eP 14:02:17.4	
Distant shock	eS 41.4	
	Dist. 220 Km.	

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PROVISIONAL READINGS AT PELDEHUE

Mar.08 eP 03:22:31.0	Mar.09 eP 11:54:29.0	Mar.10 eP 07:13:01.0
1969 eS 53.2	1969 Distant shock	1969 ePP 11.3
Dist. 200 Km.		ePPP 18.0
eP 10:39:51.5	eP 13:26:01.5	eS 15:00.5
Distant shock	Distant shock	e(SS) 30.0
eP 23:40:20.0	e(PKP) 14:07:21	eR 16:02.5
iS 45.6	Distant shock	e(PcS) 43.0
Dist. 230 Km.		Dist. 22.5°
09 eP 02:08:17.5	iP 14:23:29.5	eP 08:40:00.5
eS 48.1	iS 41.6	iS 08.6
Dist. 285 Km.	Dist. 100 Km.	Dist. 60 Km.

J. Salas
Seismologist

iP 09:01:15.4
iS 23.5
Dilatation from NE
Dist. 60 Km.

PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

Mar.01 eP 14:35:59.7	Mar.09 iP 14:23:30
1969 eS 36:12.5	1969 iS 42
Dist. 110 Km.	Dist. 100 Km.
02 eP 06:44:53.1	10 eP 11:37:16.5
iS 45:09.5	eS 32.4
Dist. 140 Km.	Dist. 140 Km.
03 iP 21:57:26.0	Small
iS 49.0	
Dist. 210 Km.	
06 iP 01:59:35.7	
iS 49.4	
Dist. 115 Km.	
07 iP 12:22:57.0	
iS 23:21.5	
Dist. 225 Km.	

J. Salas
Seismologist



INTERNATIONAL SEISMOLOGICAL
SUMMARY
~~KEW OBSERVATORY~~
~~RICHMOND SURREY ENGLAND~~

*6 South Oswald Road
Edinburgh 9*

IMPRESO ORDINARIO

5 JUN 1969

UNIVERSIDAD DE CHILE
Departamento de Geofísica y Geodesia

Casilla 2777
Santiago, Chile

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PROVISIONAL READINGS AT PELDEHUE

33° 08'37" S 70° 41' 07" W h 690 m

Mar.11 1969	iP 15:07:42.5 iS 55.7 Dist. 110 Km. Compression	Mar.14 1969	eP 11:30:58.2 eS 31:59.5 Dist. 595 Km.	Mar.16 1969	eP 04:43:16 Distant shock
	eP 20:41:55.5 iS 42:04.5 Dist. 70 Km.		eP 14:42:15.3 iS 43:15.0 Dist. 575 Km.		iP 08:45:37.3 eS 46 Dist. 85 Km.
12	eP 05:20:06.3 eS 21.5 Dist. 130 Km.		iP 14:54:51.2 iS 53.5 Compression Local		eP 10:52:34.7 eS 47.3 Dist. 105 Km.
	eP 12:16:16.5 eS 27.9 Dist. 95 Km. Small		eP 14:57:12.2 Distant shock?		eP 12:01:47.5 eS 59 Dist. 95 Km.
13	eP 04:33:03.7 eS 23.7 Dist. 180 Km. Small	15	eP 01:26:45.5 eS 27:00.8 Dist. 135 Km.		eP 15:01:05 eS 37.5 Dist. 305 Km.
	eP 04:45:08.5 e(S) 39.9 Dist. 295 Km. Small		iP 05:45:44.3 eS 45:56.9 Dilatation Dist. 105 Km.	17	eP 00:50:20.5 eS 51 Dist. 285 Km.
	eP 11:02:15.8 eS 41.6 Dist. 240 Km.		iP 08:23:07.9 iS 32.0 Dist. 220 Km.		eP 02:36:50 eS 37:01 Dist. 90 Km.
	eP 11:43:56.1 i 56.7 iS 44:22.0 Dist. 240 Km.		eP 09:01:06.3 eS 37.5 Dist. 290 Km.		eP 03:41:20 eS 58.6 Dist. 366 Km.
	eP 16:07:55.0 e(S) 08:37.7 Dist. 405 Km.		eP 09:36:30.7 eS 48.7 Dist. 160 Km.		eP 12:55:57.6 eS 56:17.3 Dist. 175 Km.
	eP 16:41:28.4 eS 36.8 Dist. 65 Km.		eP 09:57:36.5 eS 58:03.5 Dist. 250 Km.		eP 14:35:26 eS 36:11 Dist. 430 Km.
	eP 19:59:08.1 e(S) 29.8 Dist. about 195 Km.		eP 14:07:56.5 eS 08:24 Dist. 255 Km.		iP 19:02:50.5 iS 03:08.5 Dist. 160 Km. Dilatation
	eP 22:25:12.4 Distant shock		eP 15:53:35.5 e 54 eS 54:02.2 Dist. 245 Km.		iP 23:56:15.5 eS 27.7 Dist. 100 Km. Compression
14	eP 08:55:40.4 Distant shock		eP 22:00:52.5 eS 01:06.5 Dist. 120 Km.	18	eP 04:25:59.4 eS 27:15 Dist. 740 Km.
					eP 05:48:11.5 eS 40 Dist. 265 Km.

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PROVISIONAL READINGS AT PELDEHUE

Mar.18 eP 12:24:44.5 1969 eS 25:19.4 Dist. 340 Km.	Mar.18 eP 16:36:15.3 1969 Distant shock	Mar.19 eP 04:58:37.5 1969 eS 59:07 Dist. 275 Km.
eP 12:40:58.3 eS 41:17.5 Dist. 170 Km.	eP 17:02:02 eS 19 Dist. 150 Km.	eP 07:10:06.3 eS 31.3 Dist. 230 Km.
iP 14:56:52.5 iS 55.5 Compression Local	eP 19:42:41 e(S) 43:36.7	eP 09:55:58 eS 56:15.8 Dist. 160 Km.
iP 16:14:24.5 iS 36 Compression from SW Dist. 95 Km.	19 eP 01:13:22 eS 36.2 Dist. 120 Km.	eP 11:10:28.5 eS 36.5 Dist. 60 Km.
eP 16:29:25.0 eS 58.5 Dist. 315 Km.	eP 01:50:56 iS 51:06.7 Dist. 85 Km.	20 eP 05:04:59.5 eS 05:48 Dist. 465 Km.
	eP 02:14:14.5 eS 36.5 Dist. 200 Km.	eP 06:51:32.1 eS 52:03.8 Dist. 295 Km.
	eP 02:22:(21) Distant shock?	eP 13:21:51.5 eS 22:08 Dist. 145 Km.
		eP 14:15:15.4 eS 23.8 Dist. 65 Km.
		iP 15:06:03.5 eS 17 Dist. 115 Km.

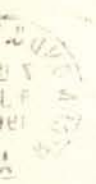
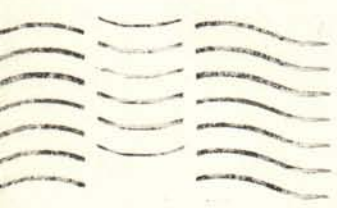
H. Becker
Seismologist .

PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

Mar.13 eP 11:43:58.2 1969	Mar.18 eP 16:14:25.6 1969 eS 39 Dist. 115 Km.	Mar.20 eP 15:06:06.8 1969
16 eP 08:45:41		
17 eP 19:02:55.5		

H. Becker
Seismologist



INTERNATIONAL SEISMOLOGICAL SUMMARY

~~Kew Observatory~~
~~RICHMOND SURREY ENGLAND~~

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SCOTLAND.



IMPRENTA NACIONAL

UNIVERSIDAD DE CHILE
Departamento de Geofísica y Geodesia

14 JUN 1971

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1.

PROVISIONAL READINGS AT MICHILLA

22° 42' 23" S 70° 16' 01.0" W h 100 m

1969	No records on Jan. & Feb. Station stopped	24	iP	18:11:10.4	Mar. 26	iP	05:44:18.7	
			i	14.4	1969	iS	43.5	
			eS	58.5		iP	11:11:34.4	
Mar. 22	iP 17:58:23.9		iP	20:34:13.6		iP	20:13:59.3	
	eS 59:05.9		iS	35:06.4		eS	14:23.2	
	iP 18:30:08.9		iP	21:39:27.8	27	iP	03:06:00.5	
	iS 30:51.6		iS	40:05.0		eS	08.7	
	iP 19:20:19.9		iP	22:06:25.4		iP	04:10:55.1	
	iS 57.3		eS	07:05.2		iS	11:31.7	
	i 9					iP	07:25:46.2	
	Compression		25	iP 01:02:02.8		i	50.7	
	iP 20:32:55.0		e	04.1		Dilatation		
	iS 33:02.6		iS	32		iP	07:28:36.7	
	Dilatation		i	36		iS	29:14.3	
23	iP 16:23:38.9		iP	02:24:27.9		Compression		
	i 40.7		iS	47.9		iP	07:47:43.6	
	iS 24:02.8		i	50.8		iS	48:33	
	i 13.1		Compression			iP	08:33:57.2	
	iP 21:35:17.2		iP	03:57:17.5		iP	17:01:24.6	
	eS 54.8		eS	41.2		iS	02:01.3	
	iP 22:55:49.8		iP	04:34:35.2		iP	18:01:50.3	
	eS 56:27.4		eS	35:29		iS	42:17.0	
	iP 23:24:07.2		i	31.7		e	44:14	
	iS 24.4		iP	05:52:06.8		eP	18:41:37	
24	iP 00:06:33.6		iS	25.4		iS	42:17.0	
	eS 54.0		i	31.2		e	44:14	
	iP 07:39:21.0		iP	09:28:34.1		iP	21:02:58.8	
	iP 07:48:17.3		eS	29:16.1		eS	03:15.7	
	eS 37.2		iP	10:14:37.8				
	iP 09:42:43.1		iS	58.7		28	iP	03:40:25.4
	eS 43:00.6		iP	11:17:51.5			iS	52.0
	iP 11:47:26.0		iS	18:16.0			Compression	
	iS 45.3		iP	21:24:24.7			iP	04:42:11.3
	Compression		26	iP 01:16:37.5			e	37.3
	iP 15:33:11.0			iP 01:26:41.5			i	52.6
	eS 47.8			Compression				
	iP 16:13:44.6			iP 02:04:43.7			iP	10:09:41.9
	iS 14:23.0			eS 05:24.6			iS	10:17:2
	iP 16:48:14.4			i 28.5			Dilatation	
	iS 19.3			iP 05:27:30.0			iP	20:58:26.8
	Dilatation			i 36,1			e	59:07

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PROVISIONAL READINGS AT MICHILLA

<p>Mar.30 1969</p> <p>iP 03:46:47.3 iS 47:02.5 Compression</p> <p>iP 10:08:30.5 eS 47.5</p> <p>iP 10:39:36.7 Dilatation</p> <p>iP 10:51:23.1 Compression</p> <p>iP 14:55:18.2 iS 59.7</p> <p>iP 17:58:04.6 eS 15.4</p> <p>iP 19:00:27.5 eS 55.4</p> <p>iP 22:13:26.3 eS 36.2</p> <p>Apr.01</p> <p>eP 16:10:02 eS 27</p> <p>eP 16:34:04 eS 12</p> <p>eP 21:05:06 eS 42</p> <p>02 eP 02:02:01</p> <p>eP 18:31:28 eS 52</p> <p>eP 19:13:23 eS 32.17</p> <p>May</p> <p>From the 1st. to the 10 station stopped</p> <p>From the 10 at 20:47 to the 11 at 11:52 seismogram failed</p> <p>11 iP 21:19:06.6 iS 30.2 Dilatation</p> <p>From the 12 at 13:30 to the 13 seismogram failed</p>	<p>Jun. 1969</p> <p>From the 1 to the 27 at 00:40 station stopped</p> <p>27 iP 04:20:59.2 iS 21:20.0</p> <p>iP 04:36:12.7 iS 21.7</p> <p>iP 05:09:56.0 Dilatation</p> <p>iP 05:41:42.8 iS 48.7 Dilatation</p> <p>iP 08:58:02.8 iS 20.7 Compression</p> <p>iP 12:53:32.5 iS 39.7</p> <p>iP 18:39:34.0 iS 40:14.4</p> <p>From the 27 at 22:25 to the 29 no mark time</p> <p>From the 29 to the 30 station stopped</p> <p>Jul.</p> <p>From the 1st to the 11 at 00:06 station stopped</p> <p>11 Seismogram failed</p> <p>13 iP 05:46:09.6 i 56.9 Compression</p> <p>iP 06:28:41.7 iP 42.7</p> <p>eP 09:48:22 e 49:50</p> <p>iP 23:13:59.3 iS 14:34.3</p> <p>iP 23:48:30.8 i 48.7</p>	<p>Jul.14 1969</p> <p>iP 07:46:20.5 iS 34.9 Dilatation</p> <p>iP 09:08:02.9 iS 21.2 Dilatation</p> <p>15 iP 05:49:50.6 iS 50:09.0</p> <p>iP 06:56:02.0 iS 13.5</p> <p>iP 07:08:47.6 iS 54.8 Dilatation</p> <p>eP 08:51:04</p> <p>eP 23:10:22 iS 44.1</p> <p>16 eP 00:12:47 iS 13:06.3</p> <p>17 iP 02:12:01.3 i 02:13.5</p> <p>18 eP 00:27:35 iS 28:08.8</p> <p>iP 07:16:53.2 i 17:30.2 Compression</p> <p>eP 10:09:52</p> <p>iP 17:37:11.0 eS 30 Dilatation</p> <p>From the 19 at 00:20 to the 20 at 00:28 station stopped.</p> <p>20 iP 12:53:51.2 iS 54:10.5 Compression</p> <p>21 iP 04:43:43.8 Dilatation</p> <p>iP 06:35:50.5 i 36:38.5 Dilatation</p> <p>eP 06:48:40 eS 49:05</p>
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PROVISIONAL READINGS AT MICHILLA

Jul.21 1969	eP iS	08:52:14 35.3	Jul.26 1969	eP eS	16:50:07 28	Aug.01 1969	iP eS	18:48:37.4 49:15
22	iP eS Dilatation	03:30:19.7 35		eP eS	17:07:44 08:11	02	iP eS	01:06:29.7 48
	eP	12:10:48		eP	17:25:42		iP i i	02:55:46.0 56:17.9 19.1
	eP iS	12:32:01 24.9	27	eP eS	04:06:59 07:23		iP iS	06:38:10.3 37.2
	eP iS	16:02:55 03:05.2		eP eS	10:09:49 10:14		eP eS	08:01:45 54
	eP eS	16:22:55 23:20		eP iS	11:46:03 27.5		eP eS	09:35:15 38
23	eP e iP iS Dilatation	01:17:25 18:39 06:59:06.8 29.7		eP eS iP eS	13:13:40 17:44:17 45:22 18:29:26.0 44		iP iS Dilatation	14:05:21.1 42.0
24	iP eS	11:59:21.2 58	28	eP eS	01:38:41 39:02		iP iS Dilatation	15:45:09.2 16.5
25	iP Dilatation	06:08:31.7		eP eS	07:18:55 19:13		iP eS	18:02:32.7 03:18
	iP eS	11:30:29.0 54		eP eS	15:57:32 51		eP iS	18:09:09 15.5
	eP eS	18:38:11 48	29	eP eS	07:53:12 36		eP iP	20:32:37 22:58:23.2
	eP eS	23:02:47 03:13		eP	13:08:56	03	eP eS	00:41:34 57
26	eP eS	02:33:54 34:14	30	eP e eS	09:29:44 30:05 21		eP eS	06:05:09 46
	eP eS	03:56:42 49		eP eS	17:06:26 47		iP eS	07:03:42.3 04:07.8
	eP eS	05:00:40 59		eP iS	18:12:28 49.5		iP iS Dilatation	07:18:51.8 19:33.5
	eP eS	08:04:14 05:30		eP e eS	23:55:29 52 55		iP eS	14:32:10.2 30
	eP eS	09:56:19 41	31	eP eS	09:29:55 30:16		iP Compression	21:17:30.9
	eP eS	10:12:23 45		iP iS	12:14:21.5 41.9		eP	23:06:50

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PROVISIONAL READINGS AT MICHILLA

Aug.03 1969	Aug.07 1969	Aug.09 1969
iP 23:53:32.3	iP 04:49:41.6	iP 01:51:27.4
eS 54:50	iS 50:04.6	iS 56.0
04 iP 04:05:41.7	iP 07:07:37.7	17 iP 21:28:04.3
i 06:05.0	iS 08:43.0	eS 42
iS 16.9	eP 08:16:02	Compression
i 21.8	iS 28.5	iP 21:39:58.7
iP 09:21:23.0	eP 10:05:38	eS 40:25
eS 22:09	iS 06:05.2	18 eP 00:55:53
Compression	iP 15:58:56.0	eS 56:15
iP 10:44:56.7	eS 59:16	iP 01:53:10.8
eS 45:16	eP 19:59:23	eS 51
eP 14:27:14	iS 43.2	eP 01:58:41
e 23	iP 20:44:39.8	eS 59:00
eS 24	iS 45:04.6	iP 02:01:49.2
iP 17:37:05.5	08 iP 01:38:54.8	iS 02:11.6
Compression	eP 45:57	iP 02:51:03.3
eP 19:10:45	eS 39:28	eS 21
eS 11:09	eP 01:43:14	Dilatation
eP 19:14:03.3	eS 24	iP 04:28:44.8
eS 25	iP 02:20:33.7	iS 59:05.6
iP 21:13:50.4	eS 21:10	iP 05:44:15.3
eS 14:28	Dilatation	eS 39
iP 21:50:03.3	iP 02:44:55.7	iP 07:24:28.6
Compression	iS 45:33.3	iS 25:01.7
05 iP 01:51:51.3	Compression	Compression
iS 52:57.3	iP 05:12:36.7	eP 08:50:42
iP 02:11:00.9	Dilatation	eS 51:05
iP 02:27:52.5	eP 05:43:30	iP 10:23:47.8
eP 05:40:23	eS 55	iP 24:25.0
iP 08:10:23.7	iP 06:18:02.5	iP 23:57:57.8
iS 11:15.0	iS 19:13.6	iS 58:31.4
Compression	eP 06:50:08	Compression
iP 09:55:47.9	iP 07:21:24.9	iP 04:48:18.4
iS 56:06	eS 48	iS 22.8
eP 10:38:32	Dilatation	iP 06:48:56.3
iP 11:33:03.6	iP 09:00:34.5	i 49:20.7
eS 33	eS 01:15	iS 30.4
Compression	eP 09:55:59	eP 08:47:25
07 iP 00:45:26.2	eS 56:24	eS 49
eS 45		eS 50
		19 iP 11:01:37.4
		Dilatation

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PROVISIONAL READINGS AT MICHILLA

Aug. 19 1969	eP i iS	12:14:29 15:03.1 09.1	Aug. 28 1969	iP iS Compression	07:59:56.4 00:37.2	Aug. 30 1969	iP eS	20:05:30.0 52
	iP i iS	13:51:54.3 52:03.6 17.6		iP iS	09:40:25.3 45.3	31	iP iS Dilatation	00:31:37.0 47.7
	iP i iS Dilatation	17:30:26.5 32.8 31:07:6 08.8		iP eS	12:46:42.6 47:04		iP iS	00:58:05.3 29.2
22	eP i eS	03:31:18 43.9 45		iP iS	19:10:23.4 48.2		iP eS	10:08:39.3 09:04
	iP Compression	05:13:47.2		iP eS	21:31:12.8 50		iP iS Dilatation	13:31:49.5 55.1
	iP	10:03:17.9	29	eP eS	02:31:10 37		iP iS Compression	15:56:30.7 57:01.7
23	iP iP iS	18:25:41.3 42.7 26:01.9		iP iS	07:25:20.3 43.7	Sep.	No records, doubtful time.	
	iP iS	22:19:11.2 22.1		iP iP iS	07:49:20.5 23.0 45.6	Oct.	Until 10 station stopped	
	iP eS	23:42:49.6 43:13	30	iP iS Compression	02:15:29.1 52.0	10	iP iS Dilatation	21:46:22.0 42.3
24	iP iS Compression	02:28:35.2 55.5		iP eS	03:03:09.5 30		eP	22:59:50
	iP iS	08:39:31.4 50.6		iP iS	05:55:09.6 49.7		iP eS	04:13:51.7 14:13
	iP iS	13:49:32.5 50:02.7		iP eS eS	06:12:10.2 59 59.7	11	iP iS	11:41:12.4 49.3
	iP iS Compression	22:46:32.3 58.0		iP Compression	07:00:34.9		iP iS Dilatation	12:43:01.3 44.7
25	iP iS	00:29:49.2 30:25.2		iP iS Dilatation	07:42:55.7 43:34.3		eP e e	23:54:18 36 54
27	iP iS Compression	15:56:57.8 57:56.6		eP eS	10:52:36 53:01	12	eP eS	05:27:29 28:01
28	iP iS Compression	05:45:27.2 46:03.4		eP i eS i	18:55:20 21 56:53 56.7		eP eS	09:53:40 54:03
							eP eS	10:50:02 26

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PROVISIONAL READINGS AT MICHILLA

Oct. 1969	From the 12 at 08:00 to the 13 at 10:25 seismogram failed	Oct. 1969	eP 09:21:27 eS 53 eP 11:48:46 eS 49:07	Oct. 1969	eP 19:47:30 eS 48:02 eP 20:00:26 eS 54 iP 22:11:07.0 eS 17
13	eP 19:19:56 eS 20:17 eP 21:17:07 eS 30		From 18 at 10:33 to 20 at 21:38 seismogram failed	25	eP 01:06:39 eS 07:22 iP 08:22:59.6 eS 24 eP 08:43:17 eS 58 iP 09:41:32.4 iS 42:07.7 Compression
14	eP 00:16:14 e 17 eS 43 eP 01:59:10 eS 50 eP 03:24:07 eS 35 eP 20:21:15 eS 22:12	21	eP 01:01:51 eS 02:13.6 i 14.7 eP 02:40:33 eS 44.2 eP 11:29:23 iS 44.7 iP 16:24:02.6 iS 21.3 eP 17:41:05		eP 15:36:44 eS 37:01 eP 20:48:24 eS 48
15	eP 00:18:27 eP 04:14:43 iS 21 eP 05:14:29 eS 50 eP 06:08:22 eP 16:53:35 eS 55:55 eP 23:59:13 eS 40	22	eP 15:57:04 iS 12.8 eP 17:05:13 eP 17:13:40	26	eP 01:16:20 iP 03:26:38.7 eS 27:17 Compression eP 08:37:54 i 38:12.5 eS 23 iP 15:18:27.5 e 19:05 eS :07 eP 15:25:27 eS 48
16	iP 00:34:00.8 eS 49 iP 01:21:20.1 iS 24.4 i 25.2 Dilatation eP 01:53:47 i 54:13 eP 17:09:29 eS 50 eP 18:44:08 eS 33	23	iP 01:13:06.2 iS 29.3 Dilatation eP 04:34:36 eP 19:48:27 eS 44		iP 15:36:04.2 iS 13.1 Dilatation
17	eP 02:29:44 eS 30:30	24	eP 03:33:08 eS 49 iP 05:40:31.6 eS 39 iP 08:58:36.1 iS 44.5 iP 11:07:31.3 iS 39.6 eP 18:19:41	27	eP 00:07:32 eS 57 eP 00:29:30 eS 30:11 iP 03:16:38.7 iS 17:17.3 Dilatation
(+)	15 eP 15:24:12 eS 29				

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PROVISIONAL READINGS AT MICHILLA

Oct. 27 1969		Oct. 30 1969		Oct. 31 1969	
eP	03:25:10	eP	00:25:14	iP	11:22:01.7
eS	25	eS		iS	23.6
eP	05:26:16	eP	02:49:43	iP	13:26:44.1
eS	38	e	51:30	eS	27:26
eP	05:47:12	i	42.3	Dilatation	
eS	49	i	46.7	eP	13:52:03
eP	10:25:06	eP	05:29:31	eS	10
eS	43	iS	36.4	eP	17:45:46
28 eP	18:50:48	iP	07:08:31.6	eS	46:19
eS	51:06	e	09:05.4	Nov. From 1st. to 4 station stopped between 14.00 and 14.36	
eP	19:05:36	iS	07.4		
eS	46	Dilatation			
iP	22:13:43.1	eP	08:56:03	01 eP	00:34:51
eS	14:06	eP	09:15:35	eS	35:13.5
eP	22:43:59	eP	09:17:22	iP	01:52:06.0
eS	44:25	eS	18:02	iS	43.0
eP	22:48:26	eP	13:28:59	eP	01:56:14
eS	45	eS	29:15	eP	11:18:17
eP	22:51:53	eP	13:41:14	04 eP	14:31:13
eS	52:16	iS	29.8	iS	39.5
eP	23:43:24	eP	17:08:34	iP	21:53:56.4
eS	49	eS	45	iS	54:15.7
29 iP	03:11:06.5	eP	18:27:53	Dilatation	
i	12:05:3	i	59.6	05 iP	04:40:36.7
eS	08	iS	28:29.3	e	42:10
iP	04:26:34.8	iP	22:34:12.5	iS	12.2
iS	50.7	iS	34.2	Dilatation	
iP	11:20:11.2	eP	22:57:56	iP	07:34:20.0
i	17.4	eS	58:33	iS	36.4
i	27.9	iP	22:59:26.5	Compression	
Dilatation		eS	45	eP	15:21:50
iP	15:15:03.7	Dilatation		iS	22:18.9
eS	43	31 eP	04:14:25.2	eP	18:05:54
Dilatation		eS	45	eP	20:25:20
iP	17:31:58.0	eP	08:17:37.3	eS	52
iS	32:06.2	eS	58	iP	22:08:01.5
Compression		eP	09:00:27	iS	12.5
eP	19:08:53	eS	43	06 eP	00:13:28
iS	09:27.1	eP	10:29:02	eS	48
eP	22:06:36	eS	29	eP	03:44:48
eS	07:18	eP	10:36:34	eS	45:36
eP	22:13:28	eS	53		

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Nov.06 eP 08:29:37	Dec.05 iP 06:50:52.6	Dec.08 eP 00:48:24
1969 iS 30:11.9	1969 eS 51:16.8	1969 i 49:09.0
iP 10:12:55.3	iP 09:15:22.3	iS 14.0
iS 13:34.8	iS 57.1	iP 06:26:34.2
iP 12:17:01.7	iP 10:24:13.4	iS 58.9
eS 43	iS 44.4	iP 07:56:14.4
iP 19:00:14.1	eP 22:56:55	iS 31.6
iS 28.9	iS 57:18.2	iP 08:50:11.2
eP 19:48:56	06 iP 02:42:35.4	iS 56.4
e 49:13	iP 08:16:22.7	Compression
i 25.6	eS 59.6	iP 17:21:01.7
eP 21:15:57	iP 16:05:53.8	iS 36.9
(+)	eS 06:13.2	Dilatation
07 iP 03:59:24.3	iP 19:11:52.8	iP 18:16:33.8
Dilatation	iS 12:29.4	i 46.4
iP 04:12:30.4	Compression	iS 48.4
eP 04:32:05	iP 19:33:06.6	iP 18:17:28.0
eS 26	iS 50.2	iS 48.9
eP 09:34:28	Compression	Dilatation
iS 54.1	iP 23:10:04.9	iP 19:06:33.0
eP 13:33:29	iS 42.9	i 43.7
eS 49.5	07 iP 01:43:34.1	iS 51.7
From 7 at 13:57	iS 57.8	Compression
to 11 at 14:28	iP 03:19:34.5	iP 23:18:09.5
seismogram failed	iS 20:17.8	09 eP 00:31:24
Dec. From 1 at 17:44	Compression	eS 46.4
to 4 at 14:53	iP 03:28:50.4	eP 00:32:40.6
station stopped	eS 29:29.2	eS 33:19.4
04 iP 14:53:11.2	iP 04:47:23.4	10 iP 21:41:54.1
iS 37.8	iS 53.8	eS 42:32.7
iP 17:27:40.9	iP 05:37:14.7	Dilatation
eS 28:04.3	eS 30.2	iP 23:37:16.7
Compression	eP 08:00:06	eS 41.2
iP 19:00:21.5	eS 33.8	iP 23:40:41.6
eS 56.9	eP 10:53:37	eS 41:01
Dilatation	iP 16:12:23.4	11 eP 01:21:17
iP 22:53:57.9	iS 50.9	eS 31
iS 54:31.7	Compression	iP 05:37:19.4
iP 23:54:27.8	eP 23:57:42	iS 43.5
i 55:40.3	eS 58:10.4	eP 16:44:30
iS 45.0	05 iP 05:24:12.7	iS 35.5
05 iP 05:24:12.7	iS 32.5	iP 16:57:00.8
iS 32.5		Dilatation

(+) 07 eP 01:30:29
iS 55.1

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PROVISIONAL READINGS AT MICHILLA

Dec.11 1969	iP iS Dilatation	17:57:57.5 58:04.1	Dec.15 1969	iP iS Compression	22:12:23.0 43.0	Dec.18 1969	iP iS Compression	00:51:01.8 42.6
	iP iS Dilatation	18:35:58.6 36:35.6	16	iP eS	01:39:01.4 21.2		iP eS	02:17:48.1 18:15.7
	eP eS	22:34:01 24		iP iS Dilatation	02:05:44.7 06:07.6		iP eS	02:24:46.6 25:05.8
	eP iS	22:35:01 36:03		eP eS Dilatation	02:06:55 07:35		eP eS	03:58:15 44.8
13	eP eS	21:35:51 37:54		iP eS	03:13:10.5 29		eP iS	04:30:45 58.0
14	eP	03:02:07		iP eS	07:27:32.7 28:13.3		iP iS	04:52:55.2 53:54.0
	iP eS	03:28:12.6 34.5		eP eS	09:39:44 40:03		iP iS	07:28:43.1 29:20.1
	iP eS	04:01:38.7 02:02.1		iP eS	11:05:06.1 28.2		iP eS	10:16:50.9 17:07
	iP iS	14:12:28.4 48.5		iP iS Dilatation	17:36:30.5 37:09.7		eP iS	10:41:54 42:23.2
	iP iS	19:25:43.9 26:23.1		iP iS Dilatation	21:13:57.0 14:50.2		iP	13:51:02.4
15	iP iS Compression	03:30:01.9 08.1		iP iS Dilatation	21:13:57.0 14:50.2		iP eS	15:45:55.2 46:15.5
	iP iS	03:32:52.2 33:06.7	17	iP i iS Compression	01:11:39.2 12:24.7 27.8		iP iS Compression	18:18:32.8 19:14.0
	iP eS	08:09:00.6 39.8		iP eS Compression	06:48:49.4 49:08.2		iP iS Compression	19:22:38.2 23:17.9
	iP	08:24:09.5		iP eS Compression	09:06:50.6 07:29.1		eP eS	21:39:16 55
	iP iS	08:50:23.4 45.8		iP iS	09:31:23.4 52.2		iP iS	22:45:12.6 29.6
	iP	10:22:17.7		iP eS	10:25:08.3 39.0	19	iP eS	00:19:44.9 20:08.3
	iP i iS Dilatation	15:10:10.9 46.8 11:02.5		iP iS	13:41:24 42.8		eP e iS	00:41:49 42:14.2 19.4
	iP iS	21:17:23.9 32.9		eP eS	14:58:47.8 59:01.6		iP eS	05:40:36.7 41:04.4
	iP iS Compression	21:50:52.0 56.7					iP eS	06:41:16.5 55

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PROVISIONAL READINGS AT MICHILLA

Dec. 19 1969	eP eS	06:52:10 38.5	Dec. 21 1969	eP iS	02:08:47 09:19.4	Dec. 23 1969	eP iS	12:46:29 49.7	
	eP eS	08:08:52 09:22.4		iP e eS	02:51:00.7 36.3 41.1		eP eS	14:50:51 51:12.8	
	iP eS	11:52:22.5 53:00		iP eS	04:25:44.2 26:23.6	24	iP eS	01:05:14.3 35.6	
	Dilatation			iP eS	06:20:05.3 43.6		iP iS	03:16:20.9 33.4	
	iP iS	12:11:16.9 22.6		Dilatation			Compression		
	Compression			iP eS	06:28:03.1 19.2		iP Compression	04:39:30.1	
	eP iS	12:20:05 17.4		iP eS	11:16:50.4 17:14.9 23.4		eP eS	04:55:32 50.6	
	iP iS	21:50:04.8 29.0		iP e eS	12:10:38.1 11:04.5		iP iS	06:21:01.5 38.6	
20	iP e eS	03:57:37.8 58:58.4 59:02.6		iP iS	13:05:28.3 06:38.5		Compression		
	Dilatation			Compression			iP e iS	06:43:34.9 44:15.4 18.5	
	iP iS	06:15:44.1 56.7		From 21 at 16:00 to 22 at 13:00 station stopped			Compression		
	iP iS	07:49:35.8 45.0		22	iP eS	14:42:15.1 31.4		iP iS	12:52:44.3 53:09.6
	Compression						iP	13:48:31.8	
	iP iS	08:32:24.6 49.4		iP eS	16:19:54 20:13		eP i iS	16:52:09 58.2 53:02.6	
	Compression						eP iS	23:25:20 38.8	
	eP eS	10:05:44 06:22.2		iP eS	21:12:14.6 33		25	iP iS	05:21:10.0 36.4
	eP iS	10:35:15 41.6		23	eP eS	01:40:37 42:29		Compression	
	iP iS	13:42:39.8 43:13.8					eP	07:03:32	
	iP iS	17:45:33.8 39.4		iP eS	03:55:55.3 56:13.4		eP	21:40:00	
	Compression			iP iS	05:04:29.6 37.8		iP eS	23:45:36.3 46:00.5	
21	iP iS	00:28:00.6 40.2		Compression			26	eP iP eS	00:15:52 53.2 16:32.6
	Compression			iP iS	05:31:20.9 29.3			iP iS	00:50:26.5 55.9
	iP eS	00:49:51.7 51:02.3		Compression				Compression	
	eP iS	01:46:41 47:03.3		iP iS	08:03:52.3 04:13.4				
				eP eS	11:42:29 44.7				

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PROVISIONAL READINGS AT MICHILLA

Dec.26 1969	iP	03:55:45.6	Dec.28 1969	iP	10:20:32.3	Dec.29 1969	iP	11:02:43.6
	iS	54.3		iS	56.6		eS	03:01.8
	Dilatation			iP	12:05:09.6		iP	20:04:09.2
	iP	13:03:15.6		iS	25.0		iS	32.7
	eS	39.8		iP	13:27:33.3		iP	23:47:07.4
	iP	14:49:34.3		iS	28:44.6		iS	46.2
	eS	48.9		i	48.4			
	iP	21:57:21.1	29	iP	00:51:52.0	30	iP	03:29:31.9
	iS	40.1		iS	52:02.2		iS	49.5
	Dilatation			Compression			iP	06:14:53.1
	iP	23:09:43.7		eP	00:59:22		iP	09:06:56.3
	eS	10:25.9		iP	03:17:55.2		eS	07:11.5
27	eP	02:49:00		eS	18:33		eP	18:39:18
	eS	26		iP	04:30:41.4		iS	37.3
	iP	03:40:30.2		e	31:02.9		iP	22:20:09.7
	eS	53.8		iS	04.3		iS	58.4
	iP	08:11:20.8		eP	04:51:59		Compression	
	eS	43.3		e	52:16.7	31	iP	00:48:39.1
	iP	19:45:28.2		eS	31		iS	58.4
	i	55.0		iP	07:25:10.4		iP	03:36:25.6
	iS	46:01.5		eS	25.2		eS	55.8
	eP	21:34:31		eP	09:55:50		eP	03:56:27
	iS	49.5		e	56:10.2		iS	49.5
28	iP	06:17:30.0		iS	27.0		iP	04:24:54.5
	iS	53.9		iP	10:04:51.5		eS	25:16.4
	Dilatation			e	05:24:7			
	eP	09:07:38		iS	25.2		iP	08:54:52.2
	e	08:01.9		iP	10:09:16.6			
	eS	17.7		iP	10:31:38.2			
				eS	32:12.9			

From 31 at 12:20
 to 6 Jan 1970
 station stopped

Handwritten notes:
 11 JUN 1970
 SUREBY

11 JUN 1970
 SUREBY

Office 2717
Santiago, Chile

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PROVISIONAL READINGS AT MICHILLI

Table with 4 columns: Station, Date, Time, Magnitude. It contains several rows of data, some of which are mirrored or repeated, likely representing different seismic events or readings.



BRITISH DIABETIC ASSOCIATION
50th year of insulin in diabetic research
DEFEAT DIABETES IN 1971

INTERNATIONAL SEISMOLOGICAL SUMMARY

~~KEW OBSERVATORY~~
RICHMOND SURREY ENGLAND

6, South Oswald Road,
Edinburgh 9,
SCOTLAND.



IMPRESO ORDINARIO

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KEW OBSERVATORY
11 JUN 1971
RICHMOND, SURREY.

19 JUN 1969

1.

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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

Mar. 22 1969	eP 00:19:08.5 eS 20:11 Dist. 605 Km.	Mar. 24 1969	eP 23:01:47.2 eS 02:09.5 Dist. 205 Km.	Mar. 31 1969	eP 18:18:35.5 eS 19:00 Dist. 225 Km.
	eP 01:41:01 eS 58.5 Dist. 555 Km.	25	iP 01:27:53.5 eS 28:16 Dist. 205 Km.		eP 19:44:40 epP 45:20 eS 49:03 eSSS 50:33 Dist. 25°
	eP 02:13:34.7 eS 45.3 Dist. 85 Km.		eP 16:03:41 eS 51 Dist. 80 Km.		eP 23:56:47 eS 57:22.5 Dist. 435 Km.
	eP 13:38:29.5 eS 39:34 Dist. 625 Km.		eP 21:25:23.5 eS 54.5 Dist. 290 Km.	Apr. 01	eP 06:40:32 eS 41:04 Dist. 300 Km.
	eP 16:01:58.2 eS 02:39 Dist. 390 Km.	26	eP 02:27:13 eS 28:(03) Dist. 480 Km.		eP 11:49:52.5 eS 57 Local
	eP 22:27:27.5 eS 44.5 Dist. 150 Km.	30	eP 01:23:57 eS 24:37 Dist. 380 Km.		eP 19:46:35.5 eS 49.5 Dist. 120 Km.
23	iP 06:24:21 iS 42.5 Dist. 195 Km. Dilatation from NE		eP 04:28:00.3 eS 30.0 Dist. 275 Km.	02	eP 04:39:59 eS 40:25.5 Dist. 245 Km.
	eP 10:20:12.5 e(S) 22:06.5		eP 08:14:48.5 Distant shock		eP 05:17:00.5 eS 12 Dist. 95 Km.
	eP 14:04:20.6 eS 44.5 Dist. 220 Km.		eP 10:51:32.5 eS 52:59 Dist. 850 Km.		eP 08:18:07.5 eS 50 Dist. 405 Km.
	eP 17:25:28.6 eS 44 Dist. 135 Km.	31	eP 02:43:35 eS 53 Dist. 160 Km.		H. Becker Seismologist
24	iP 08:27:27 eS 41.3 Dist. 125 Km.		ePKP 07:34:43.8 e(pP) 35:41 eSKS 42:41 eSP 45:29 eSSS 56:22 eG 08:04:05 eR 09:11 Dist. 116°		
	eP 11:45:13.5 eS 46:07.2 Dist. 515 Km.		eP 13:18:40.5 eS 51 Dist. 85 Km.		
	eP 12:23:00.5 eS 55 Dist. 525 Km.				
	eP 13:06:58.3 eS 07:58 Dist. 575 Km.				

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PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

Mar.22 eP	02:13:35.5	Mar.26 eP	02:27:10.8	Mar.29 eP	15:58:09
1969 eS	48.5	1969		1969	
Dist. 110 Km.		28 eP	18:33:56.7	30 eP	04:27:59.2

H. Becker
Seismologist



Handwritten: Richmond Road, Richmond Surrey, England

IMPRESO ORDINARIO

~~RICHMOND SURREY ENGLAND~~

~~INTERNATIONAL SEISMOLOGICAL CENTRE~~



23 JUN 1969

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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W 690 m

Apr.02 1969	iP 15:56:23.7 iS 26.8 Compression Local	Apr.04 1969	eP 11:45:16.5 eS 39.8 Dist. 215 Km.	Apr.07 1969	eP 03:59:22.4 Distant shock
	eP 18:54:59.7 eS 55:39.5 Dist. 380 Km.		eP 18:53:04 eS 36.5 Dist. 305 Km.		eP 04:23:36.3 eS 11.6 Dist. 335 Km.
	eP 19:19:22.5 eS 20:07.5 Dist. 430 Km.	05	eP 04:04:04.8 Distant shock		eP 12:34:30.6 eS 35:53.6 Dist. 810 Km.
	eP 19:22:06 eS 16.4 Dist. 125 Km.		iP 04:23:48 Compression Distant shock	08	eP 09:35:18 eS 37.5 Dist. 175 Km.
	eP 21:05:00.3 eS 19.5 Dist. 170 Km.		eP 23:33:22 ePP 34:44 eS 39:09 eG 41:38 eR 43:23 Dist. 37.5°		eP 10:00:40.5 eS 57 Dist. 145 Km.
03	eP 01:20:10.7 eS 19 Dist. 65 Km.	06	eP 07:04:29 eS 42.8 Dist. 120 Km.		eP 10:41:22.7 Distant shock
04	eP 10:22:02.5 eS 22.5 Dist. 180 Km.		eP 20:15:40.3 Distant shock		

H. Becker
Seismologist.

PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

Mar.01 1969	eP 01:37:42.5 eS 38:17.3 Dist. 310 Km.	Mar.01 1969	eP 23:56:43.9 e(S) 57:43.6 i 52.7	Mar.02 1969	eP 14:06:40.2 eS 47.3 Dist. 70 Km.
	e(P) 03:16:46.0 e(S) 17:23.9	02	eP 02:47:05 eS 31.6 Dist. about 240 Km.		eP 14:51:(45.0) e 45.5 eS 54.3 Dist. about 90 Km.
	eP 16:44:50.5 eS 45:10.5 Dist. 170 Km.		eP 04:25:13.0 eS 17.6 Dist. 40 Km.		eP 20:41:00 eS 39.3 Dist. 350 Km.
	eP 21:28:08.8 eS 16.2 Dist. 70 Km.		eP 05:07:10 e(S) 08:01.0	03	eP 04:31:22.5 e(S) 52.8
	eP 22:45:20.5 eS 33.4 Dist. 110 Km.		eP 10:37:26.3 eS 38:01.7 Dist. 310 Km.		eP 05:54:24.6 eS 47.2 Dist. 200 Km.

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PROVISIONAL READINGS AT ANTOFAGASTA

Mar.03 1969	iP 14:55:04.5 iS 13 Dist. about 80 Km. Dilatation from SE	Mar.05 1969	ePKP 16:31:08 eP 16:52:05 eS 11.0 Dist. about 50 Km.	Mar.07 1969	eP 21:25:46.5 eS 26:17.0 Dist. 280 Km.
	eP 16:32:41.7 e(S) 33:11.3 i 25.2		eP 17:14:34.5 eS 15:00 Dist. about 230 Km.		eP 23:27:46.0 eS 51.8 Dist. 50 Km.
	e(P) 17:08:29.5 eS 50.0		eP 19:50:45.7 eS 51:04.6 Dist. 160 Km.	08	eP 00:01:43.2 eS 02:05.8 Dist. 200 Km.
	iP 23:43:15.4 iS 21.2 Dist. 50 Km. Compression from S		ePKP 19:52:34.0 e 53:25.5		eP 07:16:16.6 iS 27.2 Dist. 90 Km.
	eP 23:55:41.5 eS 56:19.7 Dist. 340 Km.		eP 20:10:56.4 e(S) 11:22.8		ePKP 10:39:40.5
04	eP 07:00:49.5 eS 01:31.0 Dist. 390 Km.	06	eP 01:36:41.7 eS 55.4 Dist. 110 Km.		e(P) 10:51:25.0 e(S) 52:05.0 e 18.5
	eP 14:36:04.0 i 04.2 eS 46.7 Dist. 390 Km.		eP 06:56:02 e(S) 41.2		eP 17:52:32.3 eS 38.3 Dist. 60 Km.
05	eP 00:58:03.8 i(S) 20.7 i 29.4		e(P) 10:02:06.5 e(S) 57.0		eP 18:09:18.8 eS 27.0 Dist. 80 Km.
	e(P) 01:50:33.5 e(S) 51:18.7 i 50.6		eP 18:36:43.5 i(S) 59.1	09	eP 00:17:57 e(S) 18:44.3
	eP 04:48:11 e(S) 49:16.0		iP 20:15:47.0 eS 16:25.2 Dist. 340 Km. Compression from NE		eP 03:05:33.7 e(S) 51.6
	eP 08:27:09.2 eS 28.3 Dist. 160 Km.	07	iP 02:54:36.3 iS 41.0 Dist. 40 Km. Dilatation from SW		eP 03:10:39.2 eS 11:18.5 Dist. 350 Km.
	eP 10:20:29.0 eS 49.5 Dist. 180 Km.		eP 04:08:27.0 eS 09:03.4 Dist. 320 Km.		eP 06:00:29.3
	eP 11:34:(02.0) eS 26.8 Dist. about 220 Km.		eP 08:46:36.0 PZ 0.2 u T 1.0 sec. Distant shock		iP 10:05:54.5 iS 06:18.8 Dist. 210 Km.
	eP 14:12:03.5 eSKS 22:40 eSP 25.5 eSS 31.3 eSSS 35.0 eG 41.0 eR 45.3 Dist. about 105°		eP 11:35:18.6 eS 25.6 Dist. 70 Km.		iP 12:55:12.5 iS 26.6 Dist. 110 Km. Compression from NE
			eP 14:52:45.7 eS 51.8 Dist. 70 Km.		iP 13:05:41.0 iS 58.5 Dist. 150 Km. Compression from NE
					ePKP 14:46:11.0
					ePKP 14:58:35

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PROVISIONAL READINGS AT ANTOFAGASTA

Mar.09 1969	eP 18:39:23.0 eS 57.3 Dist. 310 Km.	Mar.12 1969	eP 00:57:42 eS 58:10.1 Dist. about 250 Km.	Mar.14 1969	iP 15:57:45.9 iS 50 Dist. about 40 Km. Dilatation
	eP 18:46:21.8 eS 59.0 Dist. 330 Km.		iP 09:14:24 iS 15:04.1 Dist. 170 Km. Compression from ENE		iP 20:42:27.6 iS 43:04.5 Dist. 330 Km. Compression from SE
10	eP 00:09:43 e(S) 59.4 Dist. about 130 Km.		eP 13:45:52.6 eS 46:27.8 Dist. 310 Km.	15	eP 02:15:34.5 eS 16:12.9 Dist. 340 Km.
	e(P) 00:37:42.5 eS 38:14.3		e(P) 17:19:26.0 eS 50.5		eP 12:04:28.1
	eP 05:27:11.1 e(S) 39.0		e(P) 18:31:34.0 eS 32:23.5		eP 17:01:20.5 e(S) 52.2
	ePKP 07:13:14.5 e 16:21.5		eP 18:36:14.0 eS 20.2 Dist. 60 Km.		eP 20:55:00 eS 40.0 Dist. about 360 Km.
	ePKP 08:22:36.0		eP 19:18:00.4	16	eP 00:51:42.6 eS 52:17.3
	e(P) 12:27:16.5 eS 28:09.5		No records from 12-III-69 at 23:30 to 13-III-69 at 15:45.		eP 01:38:30.7 eS 39:08.2 Dist. 340 Km.
	eP 18:18:48.5 eS 19:14.6 Dist. 230 Km.	13	eP 20:59:10.1		iP 04:41:(30.5) iS 42:03.0 Dist. about 290 Km. Compression
	eP 21:14:06.0 eS 18:22 eSS 19:40 Dist. about 25°		eP 22:23:48.5 eS 27:17 eR 28:45 Dist. about 19°		eS 08:49:30.2
	eP 22:29:36 e 49.7 eS 30:10.2 Two shocks?		eP 23:37:08.3 e(S) 32.2		e(P) 13:11:06.7 eS 25.7
11	eP 04:26:55.0 eS 27:14.6 Dist. 170 Km.	14	eS 00:39:03.9		eP 16:14:01.2
	eP 11:39:54.1 eS 40:33.0 Dist. 350 Km.		iP 08:54:33.8 i 55:13.1 iS 09:00:25 eG 03.0 eR 05.0 Dist. about 39°		e(P) 13:11:06.7 eS 25.7
	eP 12:25:15.6 eS 30.2 Dist. 120 Km.		e(P) 11:31:18 eS 32:06.2	17	iP 03:06:00 iS 15 Dist. about 120 Km. Compression
	e(P) 19:09:01.5 eS 36.6		iP 14:40:33.4 iS 41:14 Dist. about 360 Km. Compression		e(P) 07:41:00 eS 57.3
	eP 21:08:04.2 eS 26.4 Dist. 190 Km.				

Y. Franulic
Seismologist



INTERNATIONAL SEISMOLOGICAL
SUMMARY
~~Kew Observatory~~
~~RICHMOND SURREY ENGLAND~~

*6. South Oswald Road
Edinburgh 7.*

IMPRESO ORDINARIO

11 SEP 1969

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33° 08' 37" S 70° 41' 07" W h 690 m

Apr.08 eP 14:54:19	Apr.11 eP 19:14:29	Apr.19 eP 06:14:38.5
1969 eS 31	1969 eS 40.5	1969 eS 15:39.5
Dist. 100 Km.	Dist. 95 Km.	Dist. 590 Km.
09 eP 13:16:44	eP 19:45:29	20 eP 01:07:03.5
e 17:14	eS 46:28.5	Distant shock
i 30.5	Dist. 575 Km.	eP 04:06:22.5
Distant shock	12 eP 00:57:14.5	e 07:09
iP 14:18:10.5	eS 39.5	iP 04:59:11
iS 22	Dist. 230 Km.	eS 28.5
Dilatation from NE	15 eP 12:04:27.5	Dilatation
Dist. 95 Km.	eS 05:23	Dist. 155 Km.
eP 16:16:17.5	Dist. 535 Km.	eP 06:53:21.5
eS 35.5	16 eP 00:49:47.2	eS 36.5
Dist. 160 Km.	eS 50:37	Dist. 150 Km.
iP 17:13:59.5	Dist. 480 Km.	eP 08:52:41
iS 14:11.8	eP 09:31:33.5	eS 53:38
Compression from N	i 45.5	Dist. 550 Km.
Dist. 105 Km.	Distant shock	eP 11:27:01.5
10 eP 01:53:09.5	eP 15:09:58.7	eS 30
eS 26.5	e(S) 10:54.5	Dist. 265 Km.
Dist. 150 Km.	eP 18:30:11.5	eP 16:20:53
eP 03:46:37.5	eS 40	eS 21:05
eS 56	Dist. 265 Km.	Dist. 100 Km.
Dist. 165 Km.	17 eP 02:52:12.5	eP 16:32:49.5
eP 07:07:58	eS 43	e 51.2
eS 31.5	Dist. 285 Km.	eS 33:14.5
Dist. 315 Km.	eP 13:02:51.7	Dist. 230 Km.
eP 08:46:47.5	eS 03:04.8	eP 17:10:20.5
Distant shock?	Dist. 110 Km.	eS 37.5
eP 10:35:21.5	eP 13:41:38.5	Dist. 150 Km.
eS 33	e(S) 43:28.5	21 iP 12:49:19
Dist. 95 Km.	eP 17:38:38.2	eS 34
eP 10:38:06.5	eS 39:26	Dist. 130 Km.
eS 29	Dist. 460 Km.	eP 17:10:29
Dist. 205 Km.	18 eP 19:47:02	eS 52.5
eP 11:09:04	eS 56.5	Dist. 215 Km.
eS 38.5	Dist. 525 Km.	22 eP 03:32:06.5
Dist. 325 Km.	e(P) 22:40:14.5	e 21.5
eP 15:10:06.3	eS 59.5	eS 38.5
i 07.5	19 eP 04:28:01.5	Dist. 305 Km.
iS 24.5	i 04	eP 04:45:20
Dist. 160 Km.	eS 58.5	eS 51:18
eP 15:28:06.5	Dist. 550 Km.	eG 54:08
eS 40.0	e(R) 55:49	Dist. 40°
Dist. 315 Km.		

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PROVISIONAL READINGS AT PELDEHUE

Apr. 22 1969	eP eS Dist. 175 Km.	05:32:43 33:02.5	Apr. 25 1969	eP e(S)	07:14:56 17:37.5	Apr. 26 1969	eP eS Dist. 340 Km.	19:15:14.5 50.5
	eP ePP eS eG Dist. 40°	06:39:13 40:50 45:12 48:01	26	iP Compression from NW	05:59:32.3		eP eS Dist. 350 Km.	19:34:34.5 35:11.5
	eP eS Dist. 130 Km.	17:49:41.5 56.5		eP eS Dist. 320 Km.	06:49:13.5 46.2		eP eS Dist. 315 Km.	19:46:48.5 47:22
	eP eS Dist. 160 Km.	20:13:20.5 38.5		eP eS Dist. about 360 Km.	08:41:(12.5) 50.5		eP e(S) Dist. 315 Km.	20:04:25 05:03.5
23	eP e(S)	01:04:51.5 49		eP eS Dist. 290 Km.	08:46:25 56		eP eS Dist. 300 Km.	21:39:22.5 54.3
	eP eS Dist. 165 Km.	03:47:41.2 59.5		eP eS Dist. 275 Km.	08:54:00.5 30		eP eS Dist. 285 Km.	22:28:34.5 29:05
	eP eS Dist. 155 Km.	03:40:21 38,5		eP eS Dist. 310 Km.	09:34:51 35:24		eP eS Dist. 315 Km.	22:42:41 43:14.3
	eP eS Dist. 230 Km.	06:59:10.2 35		eP eS Dist. 305 Km.	10:34:55 35:27.5		eP eS Dist. 360 Km.	22:47:33.5 48:11.5
	iP iS Dist. 160 Km. Dilatation from SSW	08:27:38.5 56.6		eP eS Dist. 100 Km.	11:42:08.5 20.5		eP eS Dist. 330 Km.	23:18:23 58
	eP eS Dist. 160 Km.	12:34:20 38		eP eS Dist. 315 Km.	12:00:46 01:18.5		eP eS Dist. 325 Km.	23:34:42 35:16.5
	eP e Dist. 295 Km.	16:46:07.5 47:07		eP eS Dist. 315 Km.	13:00:08.5 42	27	eP eS Dist. 270 Km.	00:44:59.7 45:28.5
	eP eS Dist. 295 Km.	20:47:46.5 48:18		eP eS Dist. 300 Km.	13:14:25.5 57.5		eP Distant shock	01:56:56
24	eP Distant shock	03:25:05.5		eP eS Dist. 340 Km.	14:41:35 42:11		eP eS Dist. 70 Km.	02:56:55.5 57:04.5
	eP eS Dist. 60 Km.	17:44:58.5 45:06.5		eP eS Dist. 345 Km.	15:41:52 42:28.5		eP eS Dist. 335 Km.	07:26:24.2 59.6
25	eP eS eR Dist. 44°	03:42:06.5 48:26 54:24		eP eS Dist. 315 Km.	15:56:55 57:28.5		eP eS Dist. 290 Km.	07:29:18 49

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PROVISIONAL READINGS AT PELDEHUE

Apr. 27 1969	eP 08:51:09 eS 40 Dist. 290 Km.	Apr. 27 1969	eP 13:41:07.5 eS 42. Dist. 325 Km.	Apr. 29 1969	eP 04:20:34.5 eS 21:13.5 Dist. 370 Km.
	eP 09:00:33 eS 01:08.5 Dist. 335 Km.		eP 15:01:10.5 eS 46.8 Dist. 345 Km.		eP 06:06:57 eS 07:30.5 Dist. 315 Km.
	eP 10:45:27 eS 36.5 Dist. 75 Km.	28	eP 13:42:33.8 eS 43:09.2 Dist. 335 Km.	30	eP 15:49:33.5 eS 50 Dist. 145 Km.
	eP 12:39:46 eS 40:17 Dist. 190 Km.		eP 16:38:22.5 eS 39:01 Dist. 365 Km.		eP 16:47:57.5 eS 48:32.8 Dist. 235 Km.
	eP 12:50:25.5 eS 59.5 Dist. 220 Km.		eP 18:42:24.5 eS 43:01 Dist. 345 Km.		eP 18:22:31 eS 47.5 Dist. 145 Km.
		29	eP 00:21:53.5 eS 22:14.8 Dist. 195 Km.		eP 18:40:15 eS 43.5 Dist. 265 Km.

H. Becker
Seismologist.

PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

Apr. 14 1969	eP 02:15:26.5 eP 04:26:(44.5)	Apr. 23 1969	eP 08:27:34.3 eS 52.0 Dist. 160 Km.	
17	eP 13:02:47 eS 56.7 Dist. 75 Km.	26	eP 01:59:(40.5) eP 06:03:37.5	
21	eP 12:49:23 eP 17:10:25.5	27	eP 20:14:41 eS 15:19.5 Dist. 360 Km.	H. Becker Seismologist

PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

Mar. 17 1969	eP 08:27:35.3 iS 28:15.6 Dist. 360 Km. Compression from SE	Mar. 17 1969	eP 19:06:30.1 e(S) 41.9	Mar. 18 1969	eP 09:07:16.0 i 17.5 iS 50.5 Dist. 310 Km.
	eP 08:55:29.2 eS 43.7 Dist. 120 Km.	18	iP 04:24:51.0 iS 25:17 Dist. about 230 Km. Dilatation		iP 13:48:41.6 iS 49:22.1 Dist. 370 Km. Compression from SE
	eP 11:42:16 e(S) 40.5		eP 04:07:33.7 eS 08:14.3 Dist. 370 Km.		eP 19:42:42 eS 43:33.4 Dist. about 480 Km.

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PROVISIONAL READINGS AT ANTOFAGASTA

Mar.18 e(P) 21:25:12.7	Mar.21 ePKP 03:24:57.7	Mar.21 eP 21:02:38.0
1969 eS 38.2	1969 eP 04:33:49.8	1969 eS 57.6
	i(S) 34:45.2	Dist. 170 Km.
19 iP 02:20:48.4	eP 06:09:18.1	22 eP 00:10:47.3
i(S) 21:01.5	eS 56.2	eP 02:06:42.0
Dilatation from S	Dist. 640 Km.	e(S) 07:04.0
iP 04:14:39.2	eP 06:45:31.0	eP 04:23:38.2
iS 15:06.5	eS 54:40	eS 24:17.7
Dist. 240 Km.	eG 07:02:16	Dist. 360 Km.
Compression from S	eR 07.0	eP 08:25:18.8
eP 15:09:40.5	Dist. about 66°	eS 58.3
eS 10:11	eP 11:56:04	Dist. 360 Km.
Dist. about 280 Km.	eS 32	e(P) 09:37:52.5
e(P) 23:57:39.5	Dist. about 250 Km.	e 54.2
eS 58:35.5	e(P) 13:30:13.5	iS 38:49.6
20 eP 02:01:39.2	eS 35.5	e(P) 13:38:42
e(S) 02:16.2	eP 13:42:07.8	eS 39:50.3
eP 04:00:13.7	eS 45.8	i 59.3
eS 30.2	Dist. 340 Km.	eP 15:18:55.6
Dist. 140 Km.	eP 14:03:53.0	eS 19:23.0
iP 04:47:49.5	eS 59.5	Dist. 240 Km.
iS 48:30.2	eP 14:20:56.5	eP 17:18:11.0
Dist. 370 Km.	eS 21:31.8	eS 46.3
Compression	Dist. 310 Km.	Dist. 310 Km.
e(P) 05:36:12	iP 15:37:19.7	eP 18:30:29.7
eP 06:51:38.2	iS 55.5	eS 31:24.0
eS 44.5	Dist. 320 Km.	Dist. 510 Km.
Dist. 60 Km.	Compression from E	eP 19:20:19.3
e(P) 08:04:28.5	eP 16:35:29.2	eS 55.8
eS 52	e(S) 36:24.5	Dist. 330 Km.
e(P) 10:01:13.5	eP 16:38:02.0	23 e(P) 03:49:08.0
eS 48	eS 18.3	eS 50:02.0
e(P) 15:08:06.0	Dist. 130 Km.	eP 08:02:16.1
eS 09:50.7	eP 17:17:05	eS 42.5
ePKP ₁ 16:38:52.8	e(S) 53.0	Dist. 230 Km.
ePKP ₂ 39:25.4	eP 17:57:37.3	iP 10:18:05.4
eSKKS 50.0	eS 58:04.1	iS 20
eSKSP 53:30	Dist. 240 Km.	Compression from NE
eSS 17:03:06	eP 17:47:30.7	Dist. 120 Km.
eSSS 09:25	eS 48:06.5	eP 11:55:13.1
eG 24.0	Dist. 320 Km.	eP 11:55:51.5
eR 33.0	eP 18:21:25.2	e(P) 11:58:13
Dist. about 159°	e(S) 32.0	eS 59:03.0
eP 20:21:09.9		
eS 48.5		
Dist. 350 Km.		

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Mar. 23 1969	eP 12:01:(31.5) eS 56.0 Dist. 220 Km.	Mar. 25 1969	eP 03:57:12.7 eS 38.7 Dist. 230 Km.	Mar. 27 1969	iP 04:10:53.1 iS 11:27.7 Dist. 310 Km. Compression from ESE
	e(P) 16:23:54 eS 24:34.0		eP 04:34:49.4 e(S) 35:48.0 i 54.5		eP 05:06:57.0 eS 07:34.2 Dist. 330 Km.
	eP 17:52:55.3 e(S) 53:56.6		e(P) 05:52:23.5 eS 53:01.2		eP 06:06:55.8 eS 07:33.2 Dist. 330 Km.
	e(P) 19:37:09.7		eP 09:28:(37.5) e(S) 29:13.2		e(P) 07:23:01.0 e(S) 26:18.2
	eP 20:33:56.7 eS 34:44.9 Dist. 450 Km.		eP 10:14:47.7 e(S) 15:13.8		eP 07:28:44.7 eS 29:27.5 Dist. 400 Km.
	eP 22:55:48.2 eS 56:24.0 Dist. 320 Km.		e(P) 11:18:03.5 eS 30.7		eP 07:47:57.8 iS 48:48.2 Dist. 470 Km.
	eP 23:24:03.0 eS 18.2 Dist. 120 Km.		eP 15:57:35.8 eS 52.0 Dist. 130 Km.		eP 08:34:(12.5) eS 34.5 Dist. about 190 Km.
24	eP 15:33:09.0 eS 45.8 Dist. 240 Km.		eP 16:43:15.0 eS 44:00.0 Dist. 430 Km.		eP 09:16:10.3 eS 38.7 Dist. 250 Km.
	eP 16:13:(56.1) e(S) 14:39.2	26	eP 01:16:48 e(S) 18:27.9 e 20:02.7 Two shocks?		e(P) 11:00:26.3 eS 54.3
	eP 16:48:28.7 eS 45.0 Dist. 130 Km.		e(P) 01:26:11 e(S) 50.2 e 27:07.5		iP 11:17:56.0 eS 18:37.5 Dist. 390 Km. Compression from E
	e(P) 18:11:32.5 eS 12:31.0		eP 01:32:57.3		eP 11:51:(59.5) eS 52:21.8 Dist. about 190 Km.
	eP 20:34:24.3 e(S) 35:22.7		eP 02:04:48.1 eS 05:21.0 Dist. 300 Km.		eP 12:03:45.2 eS 04:11.7 Dist. 240 Km.
	eP 21:39:22.7 eS 58.0 Dist. 310 Km.		eP 05:44:18.7 eS 54.0 e 54.8 Dist. 310 Km.		iPKP 13:01:35.1 eSS 25:00 eSSS 31:16 eG 44:34 eR 55:00 Dist. about 155° Doubtful interpretation
	eP 22:06:24.5 eS 07:02.8 Dist. 340 Km.		eP 11:11:42.7 eS 12:09.5 Dist. 240 Km.		eP 15:56:03.2 iS 39.6 Dist. 320 Km.
25	eP 01:02:17.5 eS 54.5 Dist. 330 Km.		e(P) 12:25:06 e(S) 29.3		
	eP 01:19:06.2 eS 26.6 Dist. 170 Km.		eP 14:22:43.0 eS 23:07.5 Dist. 220 Km.		
	eP 02:24:37.9 eS 25:00.7 Dist. 200 Km.				

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Mar. 27 eP 21:47:48.0	Mar. 29 eP 12:04:32	Mar. 31 eP 11:51:41.1
1969 iS 48:30.5	1969 iS 05:28.2	1969 iS 52:18.6
Dist. 400 Km.	Dist. about 530 Km.	Dist. 340 Km.
28 eP 06:14:(57.4)	eP 19:58:(47.2)	iP 15:39:51.8
eS 15:12.8	iS 59:04.2	eS 40:(25.8)
Dist. about 120 Km.	Dist. about 140 Km.	Dist. about 310 Km.
		Dilatation
eP 08:33:39.1	30 eP 02:46:57.9	eP 17:46:(02.6)
eS 34:(45.7)	iS 47:12.2	iS 47.7
Dist. about 640 Km.	Dist. 110 Km.	Dist. about 420 Km.
iP 11:11:31.0	eP 09:08:21	ePKP ¹ 19:44:38.2
iS 12:24	iS 35.3	ePKP ¹ 45:00.7
Dist. about 300 Km.	Dist. about 110 Km.	ePPS ² 20:01:11
Compression		eSS 07:40
eP 12:10:53.4	iP 09:39:31.8	eG 25.5
iS 11:21.8	iS 48.2	eR 35.0
Dist. 250 Km.	Dist. 130 Km.	Dist. about 150°
	Compression	
iP 17:01:28.8	iP 09:51:09.3	eP 20:21:47.6
iS 02:07.6	iS 52:(06)	iS 22:12.3
Dist. 350 Km.	Dist. about 540 Km.	Dist. 220 Km.
Compression	Compression	
eP 18:01:36.5	iP 15:55:17.2	Apr. 01 eP 11:00:06.5
iS 52.3	eS 54.8	eS (46.1)
Dist. 130 Km.	i 56.3	Dist. about 360 Km.
	Dist. 330 Km.	eP 11:30:(43.4)
eP 18:41:43.2	eP 17:58:09.1	eS 31:03.7
i 56.5	iS 24.5	Dist. about 170 Km.
e(S) 43:45.5	Dist. 120 Km.	iP 13:49:13.3
i 53.3		Local Compression
	eP 22:12:59.2	eP 14:37:41.2
eP 21:02:(31.3)	iS 13:10.4	eS 38:19.3
eS (46.9)	Dist. 100 Km.	Dist. 340 Km.
Dist. about 130 Km.		e(P) 14:40:06.5
29 eP 04:00:(03.6)	31 iP 02:44:16.0	Local
eS (41)	iS 22.9	eP 16:10:13.5
Dist. about 340 Km.	Compression	eS 48.8
	Dist. 60 Km.	Dist. 310 Km.
iP 04:42:14.2	eP 07:30:41	eP 19:54:16
iS 55.0	ePP 35:13	eS 27.5
Dist. 370 Km.	eSP 44:57	Dist. 100 Km.
Compression	ePPS 46:14	
iP 09:44:08.2	eSS 51:00	eP 21:04:53.8
iS 16.1	e(G) 08:02.0	eS 05:16.0
Dist. 70 Km.	eR 10.0	i 20.5
	Dist. about 111°	Dist. 190 Km.
eP 10:06:29	iP 07:40:37.6	ePKP 21:27:21.5
eS (51.3)	iS 42.2	e(P) 21:55:04.0
Dist. about 190 Km.	Dist, 40 Km.	eS 22.6
iP 10:09:43.6	Dilatation	
iS 10:21.7		
Dist. 340 Km.		
Compression		

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PROVISIONAL READINGS AT ANTOFAGASTA

Apr.02 1969	eP e eS Dist. 320 Km.	02:01:58.3 58.7 02:34.5	Apr.04 1969	eP e(S) Local	03:25:29.5 26:53.0 04:57:57.0	Apr.05 1969	ePKP iP iS Dist. 370 Km. Compression from E	04:24:07.0 06:18:48.1 19:28.8
	eP Local	03:55:10.0		eP eS Dist. 330 Km.	05:08:40.8 09:17.5		e(P) eS Dist. 50 Km.	09:30:40.8 58.7
	eP Distant shock	07:43:44.2		eP eS Dist. 400 Km.	06:52:41.3 53:24.0		eP eS Dist. about 140 Km.	09:36:54.5 59.6
	e(P) eS	08:18:54 20:11.8		eP eS Dist. 160 Km.	07:21:42.2 22:01.5		eP eS Dist. about 360 Km.	09:38:(20.5) 37.6
	e(P) eS Dist. 330 Km.	10:46:31.8 47:10.3		eP eS Dist. 350 Km.	10:17:32.3 18:11.0		eP eS Dist. about 27°	18:27:(28.3) 28:08.0
	eP eS Dist. 100 Km.	11:44:15.5 52.2		eP eS i Dist. 180 Km.	12:22:48.1 23:07.0 09.4		eP ePP eS eSS eR Dist. about 250 Km.	23:32:(08.7) 53 36:56 37:48 39:42
	eP eS Dist. about 240 Km.	14:02:18.0 29.9		eP eS eSS eR Dist. 29°	13:04:20.0 09:05 10:29 11:56	06	eP eS Dist. about 220 Km.	01:45:(43.7) 46:11.8
	e(P) eS	18:55:33.8 56:48.0		eP eS eG eR Dist. about 64°	16:26:32.5 35:06 42:10 45:00		eP eS Dist. about 330 Km.	07:58:49.2 59:13.7
	eP eS Dist. 620 Km.	19:13:36.7 14:41.4		e(P) e(S) e	18:40:37.0 41:19.5 45.4		eP e(S)	11:30:20 48.0
03	eP e(S)	01:33:12 43.6		eP i eS i Dist. 170 Km.	22:04:20.2 21.3 40.3 42.8	07	iP iS Dist. 50 Km. Compression from SW	00:41:28.6 34.1
	e(P) eS	06:45:19.2 29.8		eP i eS i Dist. 40 Km.	23:43:20.1 25.0		eP iS Dist. about 330 Km.	01:24:(31) 25:08.0
	eP e(S) e	15:10:38 11:20.5 45.0		e(P) e(S) e	01:08:29 09:06.5 32.9		eP eS Dist. about 320 Km.	05:08:(27.7) 09:(03.5)
	eP Distant shock	15:22:06.2	05	iP eS Dist. 290 Km. Compression from ENE	02:41:21.7 53.2		eP iS Dist. 360 Km. Compression	11:55:(10) 22.4
	e(P) eS	15:56:48.5 59.0					iP iS Dist. 360 Km. Compression	13:33:58.1 34:38.3
	eP eS Dist. 250 Km.	21:42:00.7 28.2						
	eP eS Dist. 330 Km.	22:32:59.8 33:37.2						

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Apr.07	iP	17:28:46.1	Apr.10	eP	08:46:(10)	Apr.12	iP	04:03:02.0	
1969	iS	29:06.9	1969	iS	47:04.6	1969	iS	10	
		Dist. 180 Km.			Dist. about 530 Km.			Dist. about 70 Km.	
		Compression						Dilatation	
	eP	19:13:(32.7)		eP	11:09:(40.8)		eP	05:52:42.5	
	iS	59.5		eS	58.5		eS	53:19.0	
		Dist. about 240 Km.			Dist. about 150 Km.			Dist. 330 Km.	
				ePKP	15:12:55.4		eP	08:09:19.8	
				e	13:03.5		e(P)	14:32:33.3	
				i	21.7		eS	50.7	
				eP	15:25:24		eP	18:12:05.7	
				e(S)	44.3		eS	33.2	
				eP	19:28:10.7			Dist. 250 Km.	
				eS	17.2				
					Dist. 60 Km.		13	e(P)	02:28:20.0
	eP	22:28:(40.5)		e(P)	19:36:02		e	21.3	
	iS	29:00.7		eS	25.8		eS	32.6	
		Dist. about 170 Km.					i	36.2	
08	eP	06:32:23.2		e(P)	20:19:05.0		eP	05:37:59.0	
	iS	56.7		eS	35.5				
		Dist. 300 Km.					iP	13:53:50.5	
	iP	18:23:08.7		eP	20:52:38.9		iS	54:26.5	
	iS	55.9		eS	53:28.0			Dist. 330 Km.	
		Dist. 440 Km.			Dist. 460 Km.			Compression	
		Compression from NE		e(P)	23:46:39.5		eP	18:36:33	
	eP	18:36:21		eS	47:05.3		e	36.1	
	iS	37:27.7	11	eP	04:09:24.8		iS	59.6	
		Dist. 600 Km.		eS	10:00.5			Dist. 240 Km.	
	eP	19:33:06.7			Dist. 320 Km.		eP	19:11:08.5	
	iS	44.0		eP	04:11:45.1		eS	36.6	
		Dist. 330 Km.		eS	12:25.7			Dist. 250 Km.	
	eP	21:07:(43.3)			Dist. 370 Km.		ePKP	23:52:35.0	
	iS	08:06.6		eP	05:20:08.9		e(PKP)	23:55:59.0	
		Dist. 200 Km.		e(S)	41.0				
	iP	10:46:18.7		eP	08:41:54.5	14	eP	02:20:38.3	
	iS	58.9		iS	42:06.9				
		Dist. 360 Km.			Dist. 100 Km.		eP	03:55:18.0	
		Compression		eP	23:40:15				
09	iP	15:12:06.2		eS	45.5		eP	07:19:45.5	
	iS	12.6			Dist. about 280 Km.		eP	07:39:(46.5)	
		Dist. 60 Km.		e(P)	23:56:36.7		eS	40:09.5	
		Dilatation from S		eS	57:27.2			Dist. about 200 Km.	
	iP	19:31:39.2	12	eP	00:22:13.8		eP	10:56:23.7	
	iS	32:05.2		eS	41.8		eS	40.0	
		Dist. 230 Km.			Dist. 250 Km.			Dist. 130 Km.	
		Dilatation from NE		eP	01:33:04.9				
10	eP	00:43:10.0		eS	28.2		eP	14:31:56.5	
	i	12.5			Dist. 200 Km.		eS	32:05.5	
	iS	31.8					i	08.0	
		Dist. 190 Km.						Dist. 90 Km.	

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Apr.14 1969	e(P) eS e	15:05:46 06:10.4 11.3	Apr.16 1969	eP e(S)	22:29:(40.5) 30:00.2	Apr.19 1969	eP eS i	04:28:03.2 29:06.7 20.5
	e(P)	19:33:46.0		eP eS Dist.	23:50:47.8 51:26.5 350 Km.		Dist.	620 Km.
	e(P) e(S)	21:44:14.0 37.0	17	eP eS Dist.	01:19:(02.0) 38 about 320 Km.		eP eS i Dist.	06:14:25.0 15:12.2 31.0 450 Km.
	iP iS Dist. Dilatation from N	23:18:23.7 54.0 270 Km.		iP iS Dist.	11:51:00.5 06.7 60 Km.		eP eS Dist.	08:14:37 15:09.0 about 290 Km.
15	eP eS Dist.	06:56:31 59.0 about 250 Km.		iP eS i Dist.	13:40:40.1 41:06.5 12.4 230 Km.		ePKP eP	09:05:04.5 09:26:19.0
	eP i eS Dist.	07:13:38.5 41.9 15:16.2 960 Km.		Dist. Compression from SW	230 Km.		eP eS Dist.	12:14:42.2 59.0 140 Km.
	eP eS Dist.	12:04:32.5 05:38.0 about 540 Km.		eP e(S) eP eS Dist.	16:05:26.5 06:29.5 16:14:18.7 54.2 320 Km.		eP eS Dist.	15:07:19.5 08:49.0 880 Km.
	ePKP	17:50:39.5		eP e eS i Dist.	17:38:33.5 35.4 39:07.7 26.5 310 Km.		eP eS Dist.	17:36:05.8 27.0 180 Km.
	iP	22:33:58.4		eP e(S) eS i Dist.	22:39:06.5 45.8 12:53:04.4 16.6 100 Km.	20	iP iS Dist. Compression from E	01:04:55.3 05:05.3 90 Km.
16	iP iS Dist. Compression from S	00:39:15.5 (29.5) about 110 Km.		Dist. Dilatation from SE	100 Km.		eP eS Dist.	08:26:18.2 30.2 100 Km.
	eP i e(S) i	00:52:59.5 53:00.0 25.5 43.5	18	eP e eS Dist.	18:33:33.5 57.4 34:18.7 420 Km.		eP eS Dist.	10:18:10.5 19:12.0 600 Km.
	e(P) eS	07:21:48.6 22:11.4		eP e eS Dist.	19:47:14 48:20.5 about 640 Km.		eP eS Dist.	11:17:54.8 18:22.7 250 Km.
	iP iS Dist. Compression from NW	07:37:52.3 56.2 40 Km.		eP eS Dist.	19:47:14 48:20.5 about 640 Km.		eP eS Dist.	13:14:44.6 15:24.7 130 Km.
	eP eS Dist.	09:29:28.0 30:48.2 760 Km.	19	eP eS Dist.	01:14:14.5 52.0 340 Km.		eP eS Dist.	17:38:48.5 39:04.3 130 Km.
	eP eS Dist.	11:16:53.2 17:14.2 180 Km.		iP eS i Dist. Compression from ESE	01:52:43.4 53:18.5 19.5 310 Km.		eP eS Dist.	17:59:34.6 18:00:01.2 240 Km.
	eP eS Dist.	17:46:52.2 47:31.0 350 Km.		eP eS Dist.	02:36:07.5 35.7 250 Km.		eP eS Dist.	18:50:(15.6) 52.2 about 330 Km.
	eP eS Dist.	21:18:59.0 19:(36.7) about 340 Km.					e(P) eS	18:51:11.9 38.6

Y. Franulic
Seismologist

INTERNATIONAL SEISMOLOGICAL
SUMMARY
KEW OBSERVATORY
RICHMOND SURREY ENGLAND



IMPRESO ORDINARIO

11 SEP 1969

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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

May 01 1969	iP 16:33:52 iS 34:41 Dist. 370 Km. Compression from N	May 04 1969	iP 08:20:25 iS 39.5 Dist. 125 Km. Dilatation from NW	May 05 1969	iP 14:39:08.0 iS 32.7 Dist. 225 Km. Compression
	eP 20:51:06.5 eS 27.5 Dist. 190 Km.		eP 14:06:41 eS 07:06 Dist. 230 Km.		eP 15:21:54.8 Distant shock
02	iP 03:57:52.2 iS 58:07 Dist. 130 Km. Compression from S		eP 16:27:49.5 eS 28:22.5 Dist. 310 Km.		eP 15:58:03.0 Distant shock
	eP 14:35:20 eS 44 Dist. 220 Km.		eP 18:38:07.9 Distant shock		eP 17:25:24.9 eS 37.3 Dist. 105 Km. Small
	eP 15:27:58.8 eS 28:34 Dist. 330 Km.		iP 19:37:36.8 iS 50.4 Dist. 115 Km. Small Dilatation		eP 17:42:52.2 eS 43:07.3 Dist. 130 Km. Small
	eP 17:58:51 eS 59:26.5 Dist. 335 Km.		eP 19:41:52.1 Distant shock		eP 19:56:29.5 eS 51.3 Dist. 200 Km. Small
	eP 21:32:56 eS 33:01.5 Dist. 335 Km.		eP 20:28:12.1 Distant shock		eP 20:25:06.3 eS 24.5 Dist. 160 Km. Small
	eP 22:25:26.5 eS 26:02 Dist. 335 Km.		eP 21:03:31.6 Distant shock		eP 20:36:05.5 eS 39.6 Dist. 320 Km.
03	eP 04:21:11 eS 59.5 Dist. 465 Km.	05	iP 01:05:23.1 iS 45.7 Dist. 205 Km. Dilatation		eP 22:10:22.3 Distant shock
	iP 09:05:58 eS 06:35 Dist. 350 Km. Compression		eP 03:43:49.3 Distant shock		iP 22:48:52.5 Distant shock Dilatation
	iP 22:25:17 iS 32 Dist. 130 Km. Compression		iP 13:53:20.4 iS 56 Dist. 335 Km. Compression from NW	06	eP 00:35:14.2 eS 51.5 Dist. 355 Km.
04	eP 00:07:31.5 eS 48 Dist. 145 Km.		iP 14:20:14.2 iS 53.6 Dist. 375 Km. Dilatation		iP 02:44:30.1 iS 39.0 Dist. 70 Km. Dilatation Small
	eP 07:05:55.7 eS 06:06.5 Dist. 90 Km.		eP 14:38:03.3 Distant shock		

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PROVISIONAL READINGS AT PELDEHUE

May 06 1969	eP 03:39:02.5 iS 38.5 Dist. 340 Km.	May 07 1969	eP 13:57:23.0 Distant shock	May 09 1969	eP 13:42:43.2 Distant shock
	eP 04:17:09.8 Distant shock		eP 17:18:08.7 eS 44.9 Dist. 340 Km.		eP 14:32:30.2 e(S) 53.4
	eP 06:17:05.6 Distant shock	08	eP 06:38:29.1 Distant shock		eP 14:42:49.4 Distant shock
	iP 09:35:03.0 iS 12.1 Dist. 70 Km. Compression Small		eP 12:24:49.6 eS 25:24.0 Dist. 325 Km.		iP 16:09:01.2 iS 13.6 Dist. 105 Km. Compression Small
	iP 09:58:29.6 iS 47.0 Dist. 155 Km. Dilatation		iP 13:42:19.5 iS 56.2 Dist. 345 Km. Compression from NE		eP 20:19:16.4 Distant shock
	eP 11:37:47.1 eS 38:17.9 Dist. 290 Km.		eP 14:42:35.3 Distant shock		iP 23:04:36.2 iS 05:15.0 Dist. 350 Km. Compression
	eP 13:46:00.5 eS 34.2 Dist. 315 Km.		eP 15:18:39.0 Distant shock	10	iP 07:37:18.4 iS 32.4 Dist. 120 Km. Dilatation
	eP 14:20:34.1 eS 21:07.1 Dist. 310 Km.		eP 15:28:10.1 eS 43.2 Dist. 310 Km.		iP 13:53:51.1 iS 53.2 Local Compression from SW Small
	eP 17:35:46.2 iS 36:04.8 Dist. 175 Km. Small		eP 19:33:32.0 Distant shock		eP 20:56:02.7 eS 21.3 Dist. 165 Km.
	eP 17:50:23.2 iS 52.0 Dist. 270 Km.		iP 19:46:07.4 iS 18.6 Dist. 90 Km. Dilatation from NE		eP 22:10:52.2 eS 11:09.5 Dist. 155 Km. Small
	eP 19:29:49.5 Distant shock	09	iP 23:54:45.5 iS 57.5 Dist. 100 Km. Compression from NE Small		
	iP 04:00:07.6 iS 41.8 Dist. 320 Km. Compression from N		09 eP 00:40:07.3 Distant shock		
	eP 12:30:03.2 Distant shock		eP 00:53:17.3 Distant shock		G. Gallardo Seismologist
07	iP 13:18:04.4 iS 14.9 Dist. 85 Km. Compression Small		iP 08:23:40.6 iS 24:12.0 Dist. 295 Km. Dilatation from NW		
			iP 11:37:52.5 iS 38:15.0 Dist. 205 Km. Compression from N		

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PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

May 10 eP 07:37:21.7
1969 eS 39
Dist. 155 Km.

C. Gallardo
Seismologist

PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

Apr. 21 eP 02:26:56.6
1969 e(PcP) 28:52
eS 33:20
eG 36:44
eR 39:20
Dist. about 42°

eP 03:33:58
eS 34:34.7
Dist. about 330 Km.

eP 05:23:58
e(S) 24:18.9
e 24.7

ePKP 07:39:25.0
epPKP 40:04
eSKKS 50:30
eSKSP 54:02
eSS 08:03:40
eSSS 10:02
eG 24:10
eR 32:27
Dist. about 159°

eP 08:51:39.0
i(S) 59:40.3
i(S) 59.3
Two shocks?

eP 12:49:27.3
e(S) 50:11.5
i 29.0

iP 13:58:20.5
i 23.8
iS 43.9
Dist. 200 Km.
Compression from S

eP 23:25:09.7
eS 29.0
Dist. 160 km.

22 eP 00:32:50.6
eS 59.3
Dist. 80 km.

Apr. 22 eP 04:45:36.0
1969 eS 51:39
eG 54:42
eR 56:42
PZ 0.4 u T 1.5 sec.
Mag. about 5 3/4
Dist. about 40°

iP 05:02:27.7
iS 03:07.0
Dist. 350 Km.
Compression from SE

eP 05:06:33.8
e(S) 07:11.0

eP 06:12:17.5
e(S) 58.3

eP 06:39:28.5
eS 45:33
eG 48:35
eR 50:15
Dist. 40°

ePKP 08:31:04.5

eP 09:38:10
e(S) 57.2

eP 09:56:47.8
eS 57:16.8
Dist. 260 Km.

eP 14:31:50.7
eS 32:26.3
Dist. 320 Km.

iP 16:25:52.7
iS 26:32.3
Dist. 360 km.
Compression from E

eP 19:54:59

eP 20:55:20
eS 46.5
Dist. about 230 Km.

Apr. 23 iP 02:52:37.5
1969 eS 53:00.2
i 02.5
Dist. 200 Km.
Dilatation from NNE

iP 07:06:42.2
iS 07:05.2
Dist. 200 Km.
Compression from E

eP 08:29:45.5
e(S) 32:15.5

eP 08:36:18
eS 37:03.2
Dist. about 430 Km.

eP 10:10:40.7
eS 11:26.2
Dist. 440 Km.

eP 11:26:(25.8)
eS 27:03.5
Dist. about 340 Km.

eP 18:54:40.9
eS 55:07.8
Dist. 240 Km.

eP 21:27:27.8
eS 33.7
Dist. 50 Km.

24 eP 03:23:42.4
i(S) 24:09.5

eP 06:48:21.7

eP 07:45:03
eS 25.4
Dist. 190 Km.

eP 09:29:25.5

eP 12:20:16
eS 51.5
Dist. about 310 Km.

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Apr. 24 1969	eP eS	13:51:10.7 35	Apr. 26 1969	eP e(S)	06:23:19 24:52	Apr. 27 1969	eP e(S)	00:46:28.6 47:45.0
		Dist. about 220 Km.		eP e(S)	06:50:27.7 51:59.0		eP eS	02:17:13.3 52.5
				eP e(S)	07:46:01.7 24.7			Dist. 350 Km.
	eP iS	16:49:25.2 59.7		eP e(S)	08:55:(09.5) 56:36.4		eP eS	03:34:07.5 36.2
		Dist. 310 Km.		e	45.6			Dist. 260 Km.
	eP eS	19:18:47.8 54.2		eP e(S)	09:36:06 37:39.3		eP e(S)	05:22:46.5 23:23.7
		Dist. 60 Km.						
	eP eS	21:53:46.7 54:01.8		eP e(S)	12:02:(00.3) 03:28.3		eP eS	07:33:23.7 50.2
		Dist. 120 Km.						Dist. 240 Km.
	iP iS	22:52:24.5 53:00.7		e(P) eS	13:11:42.5 12:33.5		eP iS	08:34:29.5 54.3
		Dist. 320 Km.						Dist. 220 Km.
		Compression from E		eP	13:17:15.0		eP	09:14:29.0
25	eP ePP eS eG eSS eR	03:40:53.0 41:54 46:14 47:36 48:02 49.5		eP	14:16.5		eP eS	13:34:38.8 35:18.5
		Dist. about 32°		e(S)	52			Dist. 360 Km.
	iP iS	07:12:53.7 13:22.4		eP	14:22:10.0		eP eS	18:41:15.6 34.6
		Dist. 270 km.						Dist. 160 Km.
		Compression from NE		eP	14:37:17.0		eP i(S)	19:15:35 17:19.0
	eP eS	14:18:29.3 58.8		e(P) e(S)	14:42:11 43:21			e(P)
		Dist. 270 Km.						22:20:18
	e(P) eS	15:37:04.8 32.7		eP	16:51:13.2			28 ePKP
				eS	53.0			00:05:59.6
					Dist. 360 Km.		e(P)	03:34:47.6
	eP eS	20:05:48.6 06:29.7		eP	19:06:14.0			
		Dist. 380 Km.		eS	24.5			
					Dist. 100 Km.		eP iS	03:57:43.1 55.8
	iP i iS	20:40:45.2 49.0 41:13.7		eP e(S)	19:35:54 37:33.5			Dist. 110 Km.
		Dist. 260 Km.						Dilatation from SW
		Dilatation		e(P) eS	21:41:05.7 08.2		eP e(S)	06:10:03.2 31.2
	eP	23:20:04.5						
	"	"		eP eS	23:59:56.2 00:00:36.0			eP eS
					Dist. 360 Km.			09:02:30.0 03:03.2
								Dist. 300 Km.
26	eP eS	00:14:(49.5) 15:24.7	27	eP eS	00:15:28.3 16:05.6		eP eS	09:20:42.8 21:05.5
		Dist. about 310 Km.			Dist. 330 Km.			Dist. 200 Km.
	eP i eS eR	06:00:29.4 33.1 02:02 34		iP iS	00:35:49.0 36:28.5			eP iS
		Dist. about 9°			Compression from SE			22:41:48.6 42:09.1
					Dist. 360 Km.			Dist. 180 Km.

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PROVISIONAL READINGS AT ANTOFAGASTA

Apr. 29 1969	eP eS	03:09:(01.5) 29.0	Apr. 30 1969	eP eS	22:45:04.7 22:46:42.5 47:21.6	May 02 1969	eP eS	17:11:56.0 12:18.0
		Dist. about 250 Km.			Dist. 350 Km.			Dist. 190 Km.
	iP iS	04:49:29.0 54.5		eP	23:46:46.7		eP e(S)	18:04:14.8 46.7
		Dist. 230 Km. Compression from ESE	May 01 1969	eP e(S)	03:48:07.5 32.3		eP eS	18:08:01.4 16.8
	eP eS	06:37:35.2 38:15.8			Dist. 60 Km.	03	eP eS	03:47:39.7 48:03.5
		Dist. 370 Km.		eP eS	13:56:02.8 09.3			Dist. 210 Km.
	eP e(S) e	10:28:12.2 54.0 29:07.5			Dist. 60 Km.		eP i i(S)	04:13:32.5 35.4 49.9
		Two shocks?		eP	14:26:00.5			
	eP eS	11:08:10.6 33.7		eP eS	14:47:(35.0) 58.5		eP e(S)	04:21:(37.2) 22:40.1
		Dist. 200 Km.			Dist. about 110 Km.			
	eP eS	12:06:26.8 47.2		e(P) eS	14:57:00.5 45.4		eP eS	09:07:11 08:38.0
		Dist. 170 Km.			Dist. 390 Km.			Dist. about 850 Km.
	eP e(S)	12:11:53.0 12:30.2		eP eS	16:11:56.5 12:38.6		eP eS	16:31:01.4 40.4
					Dist. 810 Km.			Dist. 350 Km.
	eP eS	16:35:22.3 46.5		eP eS i	16:35:03.6 36:26.8 40.6		e(P) eS	19:21:10.6 23.3
		Dist. 210 Km.			Dist. 270 Km.			Dist. about 300 Km.
	eP e(S)	21:05:11.7 26.0	02	eP eS	22:20:19.4 49.8	04	eP eS	23:47:44 48:17.2
					Dist. 270 Km.			Dist. about 300 Km.
	eP e(S)	21:57:06.5 42.5		e(P) e(S)	04:00:01.2 01:58.6		iP iS	01:55:01.0 37.8
30	eP eS	02:03:22.4 27.0			Dist. 270 Km.			Dist. 320 Km.
		Dist. 40 Km.		e(P) eS	04:15:47.0 16:07.0			Compression from E
	eP eS	04:55:43.9 56:22.2			Dist. 100 Km.		eP	04:38:(45.5)
		Dist. 340 Km.		eP eS	04:38:35.8 47.2		eP iS	05:54:55.1 55:00.0
	e(P) e eS	10:30:26.5 36.6 31:02.3			Dist. 100 Km.			Dist. 40 Km.
				eP eS	11:16:01.7 38.6		iP iS	15:33:54.0 34:17.5
	e(P) eS	15:30:49.5 31:16.1			Dist. 330 Km.			Dist. 210 Km.
				iP iS	12:39:23.2 58.0			Dilatation from ENE
	eP e e(S)	19:46:23.5 47:05.0 32.1			Dist. 310 Km. Compression from N		e(P) eS	15:47:36.6 42.1
		Two shocks?		eP e(S)	15:30:00 46.5		ePKP	17:38:21.3

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PROVISIONAL READINGS AT ANTOFAGASTA

May 04 eP 17:57:30.0 1969 eS 50.0 Dist. 170 Km.	May 06 eP 19:30:03.8 1969 eS 31:05.0 Dist. 590 Km.	May 09 eP 16:54:14.9 1969 eS 51.3 Dist. 320 Km.
05 ePKP 05:46:43.0 eP 05:51:18.5 eS 45.2 Dist. 240 Km.	e(P) 19:35:16.5 eS 22.5 07 e(P) 04:01:24.5 e(S) 02:58.3	eP 17:15:31.6 eP 17:21:18.5 eS 29.7 Dist. 100 Km.
eP 08:12:(05.4) eS 36.1 Dist. about 280 Km.	eP 10:05:31.7 eP 12:40:24.5 eS 39.2 Dist. 120 Km.	eP 17:58:48 eS 59:04.6 Dist. 140 Km.
eP 13:54:18.2 i 36.2 iS 55:56.5 Dist. 960 Km.	No records from 7-V-69 at 13:00 to 8-V-69 at 13:00, no electric power.	eP 22:25:52.0 eS 56.8 Dist. 40 Km.
eP 14:21:30.5 eS 23:06.2 Dist. 940 Km.	08 eP 13:43:35.5 eS 45:06.7 Dist. 890 Km.	e(P) 23:04:50 e(S) 06:21.5 e 27.6
eP 15:53:39.5 eS 54:05.2 Dist. 230 Km.	eP 15:20:21.6 eS 21:30.3 Dist. 670 Km.	10 eP 00:35:55.5 eS 36:32.8 Dist. 330 Km.
eP 19:37:28.0 eS 34.4 Dist. 60 Km.	eP 16:47:22.1 eS 42.9 Dist. 180 Km.	eP 04:50:14.5 eS 47.3 Dist. 300 Km.
eP 22:07:59.5 i 08:02 eS 29.2 i 40.6 Dist. 270 Km.	eP 17:46:58.2 eS 47:24.5	eP 08:20:53.7 eS 58.9 Dist. 50 Km.
eP 23:09:48.5 eS 10:12.3 Dist. 210 Km.	eP 22:36:49.4 eS 54.9 Dist. 50 Km.	eP 11:35:51.6 e(S) 37:09.5
06 eP 09:00:50.2 eS 01:04.1 Dist. 110 Km.	09 eP 00:40:29.9 e(S) 41:21.9	eP 13:57:51 eS 58:47.2 Dist. about 540 Km.
eP 09:12:46.2 eS 13:04.6 Dist. 150 Km.	eP 03:04:34.4 iS 49.9 Dist. 230 Km.	eP 18:51:34.8 eS 52:01.0 Dist. 230 Km.
eP 15:01:47.9 eS 02:09.5 e 13.0 Dist. 190 Km.	eP 06:39:53.1 eS 40:18.6 Dist. 230 Km.	
e(P) 16:22:36.2 eS 45.7	eP 08:24:47 e(S) 26:25	
eP 17:14:(30) e(S) 15:11.3	eP 09:45:31.9 eS 46:10.3 Dist. about 340 Km.	

Y. Franulic
Seismologist

17 SEP 1969

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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

May 11 eP 02:18:12.0 1969 Distant shock	May 14 eP 19:51:45.4 1969 ePP 53:44 eS 58:52 eL 20:03:56 Dist. 50° Mag. 6.1	May 17 eP 14:26:40.5 1969 eS 27:14 Dist. 315 Km.
eP 06:50:22.9 Distant shock	15 eP 13:54:24.0 eS 45.9 Dist. 240 Km.	iP 15:23:38.0 eS 24:57 eR 25:09.5 Dist. 770 Km.
eP 11:48:43.0 eS 49:18.1 Dist. 330 Km.	iP 18:11:16.0 iS 27.5 Dist. 95 km. Dilatation from NW	C. Gallardo Seismologist
eP 12:10:25.6 Distant shock	eP 20:51:51.0 Distant shock	
eP 13:12:48.5 Distant shock	eP 23:56:20.6 eS 37.2 Dist. 150 Km. Small	
12 iP 16:38:18.0 iS 29.6 Dist. 95 Km. Dilatation Small	16 iP 00:58:11.3 iS 25.3 Dist. 120 Km. Compression Small	
eP 22:06:42.3 iS 56.0 Dist. 115 Km. Small	eP 07:15:23.0 Distant shock	
13 eP 01:00:55.7 Distant shock	eP 14:42:48.3 eS 43:21.2 Dist. 310 Km.	
iP 10:50:47.9 eS 51:13.7 Dist. 240 Km. Compression	eP 16:32:35 e 45 eS 33:05.5 Dist. 285 Km.	
eP 14:25:18.2 eS 31:58 eL 35:45 eR 38:46 Dist. 46° Mag. 5.8	eP 17:01:38.3 eS 02:10.3 Dist. 300 Km.	
eP 14:48:27.6 Distant shock	eP 17:43:09.5 eS 43 Dist. 315 Km.	
iP 23:25:54.2 iS 26:13.2 Dist. 170 Km. Compression from NE	iP 19:46:07.5 iS 18 Dist. 85 Km. Compression	
iP 23:39:20.8 iS 51.5 Dist. 300 Km. Compression from N		
14 eP 03:10:10.1 eS 32.6 Dist. 205 Km.	17 eP 04:28:01 eS 35 Dist. 320 Km.	



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PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

May 13 eP 23:25:58
1969 eP 23:39:(26.5)

15 eP 04:13:19.9
eS (30)
Dist. 80 Km.

May 15 eP 18:11:53
1969

C. Gallardo
Seismologist

PROVISIONAL READINGS AT CONCEPCION

36° 49' 41" S 73° 02' 42" W h 46 m

Feb.08 eP 20:26:27
1969 iS 40
Dist. 105 Km.

12 eP 20:28:13.5
eS 38
Dist. 210 Km.

18 eP 17:29:14
eS 17
Local

eP 18:06:36.5
eS 39.5
Local

24 eP 13:53:03.5
eS 08.5
Dist. 40 Km.

28 eP 02:53:45
e 57:28
eS 03:04:17
Dist. about 100°

Mar.12 eP 00:12:(22)
1969 eS 30
Dist. about 60 Km.

14 eP 14:56:15
eS 27
Dist. 100 Km.

20 eP 16:38:39
Compression

24 eP 12:22:11
eS 18.5
Dist. 55 Km.

eP 13:06:10
eS 17.5
Dist. 55 Km.

25 eP 02:51:15
eS 30
Dist. 130 Km.

Apr.13 eP 20:16:04.5
1969 eS 15
Small
Dist. 85 Km.

eP 23:55:23
Dilatation

14 iP 02:14:45
iS 52.5
Dilatation
Dist. 55 Km.
Felt III at Concepción

eP 02:50:57.5
eS 51:04.5
Small
Dist. 50 Km.

eP 03:55:44.5
eS 51.8
Dist. 55 Km.
Small

Mar.02 eP 19:43:37
eS 45.5
Dist. 65 Km.

03 eP 22:11:03.6
eS 13.5
Dist. 80 Km.

04 eP 19:16:33.5
eS 37.2
Small
Local

11 eP 19:21:05
eS 13
Dist. 65 Km.

26 eP 02:26:38.5
iS 49.5
Dist. 90 Km.
Felt III at Concepción

27 eP 18:20:49.5
iS 21:14.5
Dist. 230 Km.

28 eP 07:18:20
eS 27.5
Dist. 55 Km.

Apr.13 eP 00:44:07.8
iS 32
Dist. 220 Km.

eP 18:47:52
eS 48:00.5
Small
Dist. 65 Km.

eP 07:25:13
eS 21
Dist. 60 Km.
Small

15 eP 03:55:51.5
eS 56:04.5
Dist. 110 Km.
Small

eP 15:51:04.5
eS 28.5
Dist. 220 Km.
Small

20 eP 08:51:51
iS 58
Dist. 50 Km.

23 eP 08:27:43.5
iS 28:07
Dist. 215 Km.

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PROVISIONAL READINGS AT CONCEPCION

Apr. 26 eP 06:00:18	May 14 eP 19:52:00
1969 eS 01:36	1969 On minute mark
Dist. about 760 Km.	Distant shock
Felt IV at La Serena ✓	
May 02 eP 03:58:28.5	20 eP 00:52:08.6
1969 eS 59:14	iS 14.6
e 20.5	Dist. 40 Km.
Dist. 435 Km.	eP 17:11:(51.0)
05 eP 13:54:07	e 12:01.1
eS 55:22	e 13:42.0
Dist. 730 Km.	
eP 22:47:58	A. Sickinger
eS 48:18.5	Seismologist
Dist. 185 Km.	
06 eP 02:44:51.5	
eS 45:04	
Dist. 105 Km.	
13 eP 14:25:(40.2)	
e 44.3	
i 48.5	
Distant shock	

PROVISIONAL READINGS AT VALDIVIA

39° 47' 24" S 73° 16' 00" W h 12 m

Feb. 01 e(P) 22:11:02	Feb. 10 eiP 23:19:18.5	Feb. 13 eP 05:45:54.5
1969 eS 37	1969 e 23:58	1969 eS 46:12.0
	e 26:00	Dist. 155 km.
02 eP 07:30:36	e 28:37	
iS 42.5	e 36:00	14 eP 04:30:51
Dist. 50 Km.		iS 31:08.5
	11 eP 04:56:16.5	Dist. 140 km.
iP 12:23:19.8	eP 22:37:14	22 eP 18:08:46
eS 37	e 38:03	eS 58
Dist. 140 Km.	e 53:52	Dist. 100 Km.
03 iP 15:46:33		
iS 42.7	12 iP 20:28:04.5	26 iP 14:09:26.6
Dist. 80 Km.	eS 20.2	eS 46
Felt III at Valdivia	Dist. 135 Km.	Dist. 160 Km.
05 eP 17:03:48	eP 20:48:15	28 eP 02:53:53
eS 04:03	e(S) 25.8	ePP 57:24
Dist. 120 km.		e 58:27
08 eP 20:26:48	eP 20:51:56.5	eSKS 03:04:28
eS 27:17	e(S) 52:07.5	eS 05:07
Dist. 250 Km.		eSS 11:03
09 e(P) 09:48:45	13 iP 00:14:40.0	eSSS 15:00
Local	i 42.7	Dist. 90°
	iS 47.5	
	Dist. 55 Km.	
	Felt III at Valdivia X	

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PROVISIONAL READINGS AT VALDIVIA

Mar.03 eP 19:58:47	Apr.13 eP 00:44:06	May 11 eP 11:02:44
1969 eS 54	1969 iS 21.5	1969 eS 03:04
Dist. 50 Km.	i 27	Dist. 160 Km.
20 e 16:38:31	Dist. 130 Km.	18 eP 10:58:45
eP 17:01:42	e 17:17:07	iS 53
eS 58	14 eP 02:15:30	Dist. 60 Km.
Dist. 130 Km.	eS 16:29	
24 eP 11:45:26	Dist. 500 Km.	
eS 46:08	15 eP 15:51:02	
Dist. 400 Km.	eS 18	
eP 12:23:03	Dist. 130 Km.	
eS 45	17 iP 16:55:56.3	
Dist. 380 Km.	iS 56:18.5	
eP 13:07:03	Dist. 200 Km.	
e(S) 45	19 eP 11:23:35	
Dist. 380 Km.	eS 24:(03)	
26 eP 02:27:21	Dist. about 240 Km.	
eS 28:00	20 eiP 15:50:10.0	
e 25	iS (15.0)	
Dist. 360 Km.	Dist. about 28 Km.	
27 eP 18:20:46	23 eP 08:28:17	
i 54.5	eS 29:09	
i 21:03	Dist. 500 Km.	
iS 09.7	26 eP 06:01:03	
Two shocks?	eS 03:04.5	
Felt III at Valdivia X	e 17	
28 e 18:42:30	Dist. 11°	
e 43:06	eP 06:06:(42.5)	
Apr.04 eP 17:05:50	eS 07:(12)	
iS 57.5	Dist. about 275 Km.	
Dist. 60 Km.	Superimposed to	
eP 19:39:23	precedent shock	
iS 37.5	May.01 e 14:51:45	
Dist. 120 Km.	05 eP 13:54:49	
05 ePKP 23:34:06	e 57:43	
ePP 35:54	eP 22:48:04	
eSKS 40:32	e(S) 30	
ePS 46:00	07 iP 12:16:55.8	
eSS 52:49	eS 17:23	
Dist. 127°	Dist. 230 Km.	
07 eP 12:33:12	09 eP 19:53:48	
eS 30	iS 54:04.5	
Dist. 150 Km.	Dist. 130 Km.	
08 iP 22:30:05.7		
iS 10.2		
Dist. 30 Km.		

R. Schulz
Seismologist.

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PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

May 11 eP 02:30:16.2
1969 eS 36.5
Dist. 170 Km.

eP 05:17:08.5
e(S) 39.5

iP 10:28:13.0
eS 46.2
i 48.0
Dist. 300 Km.

eP 20:30:40
Local

iP 21:19:10.4
iS 38.2
Dist. 250 Km.
Compression from ENE

eP 22:27:30.5
eS 28:07.1
Dist. 330 Km.

12 eP 00:29:49.6
eS 30:26.2
Dist. 330 Km.

eP 00:30:11.7
e(S) 31:08.5

eP 02:28:38.7
iS 43.5
Dist. 40 Km.

* eP 14:30:04.0
Local

eP 15:25:44
Local

eP 19:30:15.0
eS 31.6
Dist. 140 Km.

eP 23:41:18.5
eS 42:13.8
Dist. 520 Km.

13 eP 01:44:05.9
eS 42.1
Dist. 320 Km.

*
12 eP 14:15:58.3
Local

May 13 eP 14:24:14.2
1969 ePP 25:48
eS 30:02.0
eG 32:40
eR 34:40

Dist. about 39°
Compression from NW

eP 14:31:15.7
eS 32:21.8
Dist. 640 Km.

eP 14:48:54.8
i 56.7

eP 16:19:48.1
iS 20:14.3
i 23.7

iP 16:37:37.8
i(S) 56.5

eP 23:27:(42.0)
eS 29:26.7
Dist. about 1000 Km.

eP 23:40:34
eS 42:05.5
Dist. about 900 Km.

Y. Franulic
Seismologist





INTERNATIONAL SEISMOLOGICAL
SUMMARY
KEW OBSERVATORY
RICHMOND SURREY ENGLAND

*6 South Oswald Road
Edinburgh 9.*

IMPRESO ORDINARIO

19 AUG 1969

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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

 No records from May 17
 at 15:23 to May 26 at
 16:22 Programmer Failure.

 May 26 e(P) 16:22:43.5
 1969 eS 23:00.5

 eP 17:06:31.5
 eS 07:03.5
 Dist. 300 Km.

 27 eP 04:02:07
 Distant shock

 29 eP 16:45:22
 eS 32.5
 Dist. 85 Km.

 iP 18:31:48.5
 iS 32:04.5
 Dilatation from SW
 Dist. 140 Km.

 eP 22:41:36
 eS 52
 Dist. 140 Km.

 30 eP 04:46:39
 eS 50.5
 Dist. 95 Km.

 iP 12:57:50
 iS 58:07
 Compression
 Dist. 150 Km.

 eP 14:03:17.5
 eS 34
 Dist. 145 Km.

 eP 16:35:25.7
 e(S) 45:54
 Distant shock

 eP 17:58:12.5
 eS 46.5
 Dist. 320 Km.

 eP 21:12:04.3
 eS 27.5
 Dist. 210 Km.

 31 iP 08:40:20.5
 iS 44
 Compression from NE
 Dist. 215 Km.

 Jun.01 iP 19:44:27.5
 1969 eS 40.5
 Dilatation from NW
 Dist. 110 Km.

 02 eP 02:42:04.5
 eS 23
 Dist. 165 Km.

 eP 04:42:23.7
 eS 43:59.5
 Dist. 810 Km.

 eP 11:25:(46.5)
 e 27:57

 eP 11:31:24.5
 iS 49
 Dist. 125 Km.

 eP 20:30:36.5
 eS 53.5
 Dist. 150 Km.

 eP 21:06:25.5
 eS 41.5
 Dist. 140 Km.

 03 eP 00:20:10
 eS 33.5
 Dist. 215 Km.

 eP 02:41:02.5
 eS 27
 Dist. 225 Km.

 04 iP 06:37:20.5
 iS 38.5
 Dist. 160 Km.
 Dilatation from NW

 eP 15:27:17
 eS 46.5
 Dist. 275 Km.

 05 iP 20:37:06.5
 iS 19
 Dist. 105 Km
 Compression from NW

 eP 23:03:29
 eS 04:00.5
 Dist. 295 Km.

 Jun.05 eP 23:08:40.7
 1969 eS 52.5
 Dist. 100 Km.

 06 eP 07:16:43.6
 eS 17:07
 Dist. 215 Km.

 eP 12:19:58
 Distant shock

 eP 14:56:33.5
 eS 57:20.5
 Dist. 450 Km.

 eP 22:28:02
 eS 30:25
 Dist. 13°

 eP 14:55:32.5
 eS 56:05.5
 Dist. 310 Km.

 07 eP 16:25:19.7
 eS 31.5
 Dist. 100 Km.

 eP 17:05:23.8
 iS 58.5
 Dist. 325 Km,

 iP 23:42:46.7
 eS 43:04.5
 Dist. 160 Km.
 Compression from NE

 08 iP 06:36:06.5
 iS 15.2
 Compression
 Dist. 65 Km.

 iP 14:53:17
 iS 54:14
 Dilatation from SW
 Dist. 550 Km.

 eP 20:07:13.5
 eS 08:16.5
 Dist. 610 Km.

 09 eP 05:44:07.5
 eS 42.5
 Dist. 330 Km.

 eP 08:47:57.5
 eS 48:14
 Dist. 145 Km.

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PROVISIONAL READINGS AT PELDEHUE

Jun.09 1969	eP 08:58:54.5 eS 59:11 Dist. 145 Km.	Jun.13 1969	eP 08:52:53 e(S) 55:49	Jun.16 1969	eP 02:14:45.7 eS 15:06.7 Dist. 190 Km.
	eP 09:44:06 eS 23 Dist. 150 Km.		ePKP 09:07:51 ePP 11:06 eSKSP 21:10 eSSP 29:42 eSS 30:10 eG 47:11 eR 53:46 Dist. 142°		eP 08:19:12.5 eS 37 Dist. 225 Km.
	eP 15:40:21 eS 54 Dist. 310 Km.		iP 19:21:48.5 iS 22:12.3 Dist. 220 Km. Compression	17	eP 01:18:32.2 Distant shock
	eP 19:04:16 eS 48.5 Dist. 305 Km.		eP 22:34:34 eS 56.5 Dist. 205 Km.		eP 10:06:56.0 Distant shock
10	eP 06:46:14 eS 23.5 Dist. 75 Km.		14 eP 04:14:52 eS 15:18.5 Dist. 245 Km.		iP 13:26:22.6 iS 33.6 Dist. 90 Km. Compression from NE
	eP 15:09:40 eS 51 Dist. 90 Km.		15 eP 00:52:05 eS 20 Dist. 130 Km.		eP 19:45:42.5 Distant shock
	eP 16:05:14 eS 51 Dist. 350 Km.		eP 02:07:55.5 eS 08:05.7 Dist. 80 Km.	18	eP 00:10:39.5 eS 21:00 Distant shock
11	eP 07:47:27 eS 54 Dist. 250 Km.		eP 07:51:28 iS 42 Dist. 120 Km.		iP 08:50:32.4 iS 46.5 Dist. 120 Km.
	eP 07:58:58.5 eS 59:31 Dist. 305 Km.		eP 13:05:49 eS 07:21.5 Dist. 910 Km.		iP 14:55:10.4 iS 21.5 Dist. 90 Km. Compression from NW
	eP 16:50:28 eS 51:05 Dist. 350 Km.		eP 14:33:38.5 eS 53.5 Dist. 130 Km.		iP 15:54:53.6 iS 55:03.2 Dist. 80 Km. Dilatation from NW
12	eP 11:23:04.5 eS 55.5 Dist. 490 Km.		iP 16:35:56.5 iS 36:15.5 Dist. 170 Km. Dilatation from NW		eP 16:20:54.1 Distant shock
	eP 19:25:57 eS 26:54 Dist. 550 Km.		eP 18:50:04.5 eS 21.7 Dist. 150 Km.	19	eP 05:51:31.2 eS 52:03.3 Dist. 290 Km.
	eP 20:35:56.5 Distant shock		eP 19:35:38.2 eS 52 Dist. 120 Km.		eP 09:26:00.3 Distant shock
	iP 21:50:06.5 iS 09 Local Compression		C. Gallardo Seismologist		eP 15:16:25.3 Distant shock
13	iP 05:29:06.5 iS 27 Dist. 185 Km.				eP 17:08:07.5 eS 21.5 Dist. 120 Km. Small

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PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

May 20 1969	iP iS Local	17:11:07.5 14.8	May 29 1969	eP 31 eP eS Dist.	18:31:49 08:40:22.2 47 230 Km.	Jun.08 1969	eP 10 eP eS Dist.	14:53:16.3 06:46:18 30.7 100Km.
21	iP iS Local	19:31:34.6 44.5	Jun.04	eP	06:37:24	13	iP iS Dist.	05:29:02.3 21 165 Km.
22	iP iS Dilatation Dist.	09:47:23.0 35.5 105 Km.	05	eP	20:37:10.5	17	eP	19:45:42
25	eP eS Dist.	11:09:09.8 24.0 120 Km.	07	iP eS Dist. Dilatation	23:42:50.7 43:(09.5) about 170 Km.	18	eP	08:50:27.6
26	eP iS Dist.	11:02:48.3 03:21.2 310 Km.	08	iP iS Dist. Dilatation	06:36:09.3 19.2 80 Km.			C. Gallardo Seismologist

PROVISIONAL READINGS AT CONCEPCION

36° 49' 41" S 73° 02' 42" W h 46 m

May 31 1969	eP i eS Dist.	14:02:50.8 53.8 03:09.0 160 Km.	Jun.08 1969	eP iS Local On minute mark Small	01:01:00 01:03.9	Jun.15 1969	eP eS Dist.	13:04:54.0 05:43.2 470 Km.
Jun.02	iP eS Dist. Dilatation	04:41:(41.7) (53.7) 100 Km.		iP iS Felt II at Concepcion Dist. Dilatation	14:52:30.5 39.4 70 Km.			
03	iP eS Dist. Small Compression	04:47:10.0 16.0 40 Km.		eP eS Dist.	16:14:14.6 22.6 60 Km.			A. Sickinger Seismologist

PROVISIONAL READINGS AT VALDIVIA

39° 47' 24" S 73° 16' 00" W h 12 m

May 23 1969	eP eS Dist.	03:59:25 38 110 Km.	May 29 1969	eP eS Dist.	18:42:(51) 43:09.5 about 165 Km.	R. Schulz Seismologist
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PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

May 14 1969	eP Distant shock	23:04:54.7	May 16 1969	eP e(S)	09:45:28.5 53.0	May 18 1969	eP eS	10:39:(59.5) 40:13.2
								Dist. about 110Km
	eP	23:50:09.8		eP	11:58:12.7		eS	11:52:31.5
	eS	33.2		e(S)	42.0		eS	13:26:51.4
	Dist.	200 Km.		e	51.7			
15	eP	00:52:48		eP	12:39:42.7	19	eP	01:44:57.6
	eS	53:18.5		e(S)	40:20.0		eS	45:18.7
	Dist.	about 270 Km.					Dist.	180 Km.
	eP	01:10:28.3		eP	14:28:33.7		eP	11:41:38.7
	eS	49.7		e(S)	50.0		eS	42:17.0
	Dist.	180 Km.		eP	15:43:05.5		Dist.	340 Km.
				Local				
	eP	02:53:47.4		eP	22:51:53		eP	16:14:53.5
	eS	54:05.7		Local			eS	15:08.1
	Dist.	150 Km.					Dist.	120 Km.
	eP	02:57:31.5	17	eP	02:53:46.2		eP	18:59:31.0
	eS	49.0		eS	54:25.1		eS	57.7
	Dist.	150 Km.		Dist.	350 Km.		Dist.	240 Km.
	eP	03:25:26.5		e(P)	04:33:38.5		eP	20:14:46.4
	eS	26:05.7		eS	34:26.0		Local	
	Dist.	350 Km.						
	eP	07:59:01.2		eP	05:41:48.5		eP	20:16:47.0
	eS	17.6		eS	42:35.7		Local	
	Dist.	130Km.		Dist.	450 Km.			
	eP	08:04:51.5		eP	05:43:45.4		eP	21:24:16.3
	eS	05:23.1		iS	44:02.7		eS	50.2
	Dist.	290 Km.		Compression from NNW			Dist.	300 Km.
	iP	12:36:44.2		Dist.	140 Km.	20	eP	02:12:34.8
	eS	37:15.5					eS	13:01.8
	Compression from SE			e(P)	06:40:52		Dist.	240 Km.
	Dist.	280 Km.		e	41:04.0			
	ePKP	22:57:18.5		e(S)	42:07.0		eP	02:22:40.4
	e	58:54.0					eS	23:13.5
				eP	08:27:(55.2)		Dist.	300Km.
				eS	28:30.9			
16	eS	00:24:58.0		Dist.	320 Km.		No records from May 20 at 13:00 to May 22 at 00:00.	
	e(P)	01:21:22.2		iP	15:23:06.5			
	eS	22:09.4		iS	48.2			
				Dist.	390 Km.			
	eP	03:27:15.6		eP	16:02:04.7	22	eP	00:48:47.8
	Local			eS	40.6		i	48.0
				Dist.	320 Km.		iS	49:13.5
	eP	04:20:41.7					Dist.	230 Km.
	eS	21:21.7		eS	23:36:23.3		eP	01:05:27.2
	Dist.	360,Km.					eS	06:10.2
			18	eP	08:29:12.1		Dist.	400 Km.
				eS	48.0			
				Dist.	320 Km.			

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PROVISIONAL READINGS AT ANTOFAGASTA

May 22 1969	eP 12:39:21.2 eS 57.7 Dist. 330 Km.	May 25 1969	eP 17:57:23.2 eS 44.8 i 46.8 Dist. 190 Km.	May 27 1969	eP 05:47:57.1 eS 48:47.0 Dist. 470 Km.
	No records from May 22 at 15:23 to May 24 at 14:56		eP 19:18:32.5 eS 19:09.3 Dist. 330 Km.		iP 09:29:21.0 iS 46.1 Compression Dist. 220 Km.
24	eP 15:57:48.8 eS 57.9 Dist. 90 Km.	26	eP 00:46:58.7 eS 47:25.9 Dist. 240 Km.		eS 09:40:30.2 eP 09:46:59.5 Distant shock?
	eP 16:31:21.3 eS 56.2 Dist. 310 Km.		eP 07:47:(24.0) eS 56.2 Dist. about 290 Km.		eP 12:42:53 eS 43:19.2 i 22.0 Dist. about 230 Km
	eP 16:59:01.5 eS 49.0 Dist. 450 Km.		eP 11:03:50.9 e(S) 05:18.0		eP 13:43:42.5 eS 44:21.6 Dist. 350 Km.
	eP 20:42:22.2 e(S) 43:18.0		eP 13:14:11 eS 57.5 Dist. about 440 Km.		eP 16:49:06.0 PZ 0.08 u T 1.0 sec.
	eP 23:15:03.5 e(S) 39.2		eP 15:23:00.2 eS 39.2 Dist. 300 Km.		eP 17:34:47.3 eS 35:03.7 Dist. 130 Km.
25	e(P) 04:22:59 e(S) 24:17.5		eP 16:08:02 eS 37.5 Dist. about 320 Km.		eP 17:42:14.1 e(S) 49.0 e 50.5
	eP 04:46:23.7 eS 54.8 Dist. 280 Km.		eP 16:11:35.7 eS 52.7 Dist. 140 Km.		eS 19:22:41.0
	eP 05:10:53.0 iS 11:16.5 Dist. 210 Km.		eS 17:51:18	28	eP 06:40:32.2 eS 52.0 Dist. 170Km.
	eP 06:01:23.7 eS 30.7 Dist. 70 Km.		eP 17:57:42.7 eS 51.6 Dist. 80 Km.		eP 10:20:56 Local
	iP 07:38:38.8 iS 39:21.8 Compression Dist. 400 Km.		eP 21:40:58 e(S) 41:36.0		eP 10:48:35.2 eS 49:06.0 Dist. 280 Km.
	iP 08:11:58.2 iS 12:27.2 Compression from SE Dist. 260 Km.		iP 23:39:00.0 iS 19.7 Compression Dist. 170 Km.		iP 11:36:31.5 iS 35.6 Dilatation from SW Dist. 40 Km.
	eP 09:26:(02.0) e(S) 39.2	27	eP 01:08:48.5 eS 52.5 Dist. 40 Km.		eP 12:59:54.8 eS 13:01:00.8 Dist. 40 Km.
	eP 12:02:49.2 eS 03:54.3 Dist. 630 Km.		eP 03:00:53 eS 01:11.3 Dist. about 150 Km.		iP 13:34:53.6 ePP 35:25 eS 38:52 eSS 39:36 eR 40:37 Dist. about 22° Dilatation from NNW
	e(P) 12:06:29.6 eS 07:10.0		iP 04:00:36.5 iS 01:24.0 Compression from E Dist. 450 Km.		

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PROVISIONAL READINGS AT ANTOFAGASTA

May 28 1969	eP 13:42:07.3 eS 14:05:53.7 eP 15:46:52 e(S) 47:23.5 eP 19:05:22.8 eS 29.1 Dist. 60 Km. eP 20:52:00 e(S) 32.4 iP 22:05:32.7 iS 38.5 Dist. 50 Km. Compression eP 23:29:(36.5) eS 30:39.2 Dist. about 600 Km.	May 30 1969	eP 14:30:06.3 eS 48.2 Dist. 390 Km. eS 16:01:38.0 eP 21:36:27.0 eS 37:06.2 Dist. 350 Km. 31 eP 10:35:10 e(S) 41.0 eP 11:12:08.7 Distant shock eP 13:50:07.2 Local eP 15:56:29.0 eS 57:48.7 Dist. 780 Km.	Jun.01 1969	eP 07:24:31.7 eS 59.8 Dist. 250 Km. eP 09:33:08.9 e(S) 49.3 e 52.2 iP 11:33:03.5 e(S) 23.8 i 29.0 eP 13:17:46.0 eS 19:05.7 i 06.0 Dist. 780 Km. eP 14:51:02.2 eS 40.7 Dist. 350 Km. eP 16:44:17.5 eS 41.6 Dist. 210 Km. eP 16:54:(56.5) Local eS 19:17:21.0 eP 22:08:(30.5) eS 49.0 Dist. about 160 Km. e(P) 23:21:28.4 e(S) 22:01.3
29	eP 05:13:32.0 eS 14:10.8 Dist. 350 Km. eP 06:00:16.8 e 35.5 Distant shock iP 18:19:01.8 iS 08.2 Dilatation from S Dist. 60 Km. e(P) 18:36:15.0 Distant shock iP 18:57:02.4 iS 07.9 Compression Dist. 5 Km. eP 23:12:33.7 eS 13:13.2 Dist. 350 Km.	Jun.01 1969	eP 00:44:11.9 eS 47.5 Dist. 220 Km. eP 03:12:52.2 eS 13:17.2 Dist. 220 Km. eP 04:40:40 e(S) 41:37.2 eP 04:50:13.3 eS 49.0 Dist. 320 Km. eP 05:19:(14.3) eS 47.4 Dist. 300 Km. eP 06:40:27.0 eS 41:00.2 Dist. 300 Km.	02	iP 03:06:23.1 eS 58.0 Dist. 310 Km. eP 05:25:48 eS 26:28.5 Dist. about 370 Km eP 08:37:11.8 eS 21.9 Dist. 90 Km. eP 09:33:59.2 eS 34:10.8 Dist. 100 Km eP 10:19:23 iP 42.0 iS 57.5 Two shocks? eP 11:11:11.5 Distant shock eP 11:25:00.0 i 09.8 Distant shock
30	eP 00:42:19.8 eS 44.2 Dist. 210 Km. iP 03:36:23.0 eS 37:01.5 Dist. 350 Km. eP 10:25:50.6 eS 26:11.2 Dist. 180 Km. eS 11:30:04.5				

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PROVISIONAL READINGS AT ANTOFAGASTA

Jun.02 1969	eP 11:30:14.8	Jun.04 1969	eP 17:00:41.0	Jun.06 1969	eP 08:18:24.4
	eP 14:28:54.5		iP 17:51:23.0		eS 19:04.8
	eS 29:15.3		eS 52:03.7		Dist. 360 Km.
	Dist. 180 Km.		Compression		eP 10:15:40.3
	eP 14:50:11.0		Dist. 370 Km.		eS 16:20.5
	e(S) 51:18.5		eP 18:32:18.8		Dist. 360 Km.
	eP 18:59:24.5		e(S) 57.1		eP 12:20:51.0
	eS 19:00:09.7		e(P) 19:15:09.1		eS 21:21.2
	Dist. 430 Km.		eS 35.2		Dist. 270 Km.
03	e(P) 10:12:54		eP 20:19:49.8		iP 22:26:10.8
	eS 13:13.5		e(S) 20:06.5		eS 34.5
	eP 11:29:35.5	05	eP 05:47:11.3		Compression from
	Local		eS 59.0		ENE
	eP 17:00:46.2		Dist. 450 Km		Dist. 210 Km.
	eS 57.0		eP 06:46:15.0		eP 22:55:25.3
	Dist. 100 Km.		eS 25.2		i 30.7
	eP 18:15:00		Dist. 90 Km.		iS 46.0
	e(S) 17:22.0		eP 08:37:10.0		Dist. 180 Km.
	eP 18:50:26.0		eS 14.7	07	eP 16:44:56.0
	eS 51:04.0		Dist. 40 Km.		eS 45:44.5
	Dist. 340 Km.		eP 10:47:37.0		Dist. 460 Km.
	e(P) 19:20:56		e(S) 55.3		eP 16:48:37.5
	e(S) 21:02.5		eP 11:20:21.0		eS 49:31.0
	eP 20:19:16.5		e(S) 43.7		Dist. 510 Km.
	e(S) 55.8		Dist. 200 Km		e(P) 17:06:43.1
	eP 22:40:08.3		eP 17:59:56.5		eS 08:07.0
	i 08.8		Local		e(P) 17:36:28.5
	i(S) 40.8		eP 18:59:08.7		eS 37:20.0
04	e(P) 02:11:53.5		eS 48.5		eP 19:31:37.8
	eS 12:37.9		Dist. 360 Km.		eS 47.6
	e(P) 03:33:30.5		eP 20:00:53.3		Dist. 90 Km.
	eS 53.2		eS 01:16.5		e(P) 20:36:18.0
	iP 03:43:22.8		Dist. 200 Km.		eS 37:10.8
	iS 41.5		eP 20:38:57.0	08	eP 01:14:04.9
	Compression from E		e 59.6		eS 19.5
	Dist. 160 Km.		e(S) 40:43.5		Dist. 120 Km.
	eP 03:53:51.3		iP 23:38:06.5		eP 07:51:01.8
	eS 54:14.0		eS 46.8		eS 20.5
	Dist. 200 Km.		Compression		Dist. 160 Km.
	eP 05:54:29.2		Dist. 360 Km.		eP 10:03:35.0
	eS 55:03.6	06	e(P) 04:59:43.5		e 52.3
	Dist. 300 Km.		e(S) 05:00:30.5		e(S) 04:04.5
					Two shocks?
					eP 14:55:22.3
					Nearby shock

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PROVISIONAL READINGS AT ANTOFAGASTA

Jun.08 1969	eP 15:22:55.8 eS 23:13.3 Dist. 150 Km.	Jun.11 1969	eP 13:16:41.4 eS 55.6 i 56.9 Dist. 110 Km.	Jun.13 1969	eP 04:53:50.0 iS 54.2 Dist. 40 Km.
	e(P) 19:27:28 eS 44.5		eP 14:07:35.3 e(S) 08:07.2 eP 16:21:(41.0) eS 22:02.0 Dist. about 180 Km.		eP 04:59:25 eS 05:00:04.3 Dist. about 350 Km
	eP 20:07:15.0 e(S) 08:22.1		eP 19:30:29.5 eS 36.2 Dist. 60 Km.		eP 05:29:(47.5) eS 30:17.3 Dist. about 270 Km
	e(P) 21:32:24.8 eS 55.2		iP 23;53:28.3 Local. Dilatation		iP 08:35:47.2 i(S) 36:44.6 ePKP 09:07:46.5
09	eP 15:34:(19.3) eS 36.0	12	iP 01:56:24.5 iS 47.0 Dilatation from NE Dist. 200 Km.		eP 09:27:10.7 eS 35.5 Dist. 220 Km.
	eP 17:49:09.7 eS 52:39 eR 54:00 Dist. about 19 ⁰		eP 10:17:38.3 eS 18:25.0 Dist. 240 Km.		eP 10:42:(35.2) eS 53.2 Dist. about 150 Km
	eP 21:36:19.7 Local		eP 11:23:07 e(S) 24:05		eP 12:37:06.0 eS 33.0 Dist. 240 Km.
10	eP 04:53:08.7 eS 47.2 Dist. 350 Km.		eP 12:22:34.0 eS 23:00.5 Dist. 240 Km.		eP 15:59:54.6 eS 16:00:34.5 Dist. 360 Km.
	eP 06:19:13.0 e(S) 42.8		e(P) 19:26:22.1		eP 16:23:42.4 i 43.0 Distant shock
	eP 08:15:50 Local		e(P) 19:27:12.3 Distant shock		eP 23:24:02.0 eS 41.0 Dist. about 350 Km
	eP 10:19:07.0 e(S) 40.8		eP 20:36:56.5	14	eP 01:11:39.7 eS 12:13.0 Dist. 300 Km.
	eP 14:43:36.1 eS 44:02.8 Dist. 240 Km.		eP 20:27:40.0 eS 28:23.2 Dist. 350 Km.		e(P) 05:40:48.0 eS 41:36.2
	eP 15:48:07.2 eS 25.9 i 29.6 Dist. 160 Km.	13,	eP 01:02:21.0 eS 03:33.8 Dist. 700Km.		eP 06:18:40.2 eS 20:04.0 Dist. 820 Km.
	iP 20:51:41.8 iS 55.2 Compression from N Dist. 110 Km.		iP 03:19:23.8 iS 27.8 Dilatation from W Dist. 40 Km.		
11	eP 06:30:11 eS 39.0 Dist. about 250 Km.		iP 04:47:14.5 iS 18.6 Dist. 40 Km.		
	e(P) 13:15:29.3 eS 16:04.6				Y. Franulic Seismologist

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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

Jun.19 1969	iP 20:15:06.0 iS 23.6 Dist. 155 Km. Compression from NE	Jun.24 1969	eP 00:43:26.3 Distant shock	Jun.27 1969	iP 04:03:25.8 iS 33.6 Dist. 60 Km. Compression
20	eP 04:36:55.6 Distant shock		iP 03:48:12.0 Distant shock Dilatation		eP 08:14:24.2 Distant shock
	eP 07:00:55.2 Distant shock		eP 08:57:39.4 e(S) 58:42 Dist. about 600 Km.		eP 12:12:38.6 Distant shock
	iP 08:20:17.2 iS 26.0 Dist. 70 Km. Compression from SW		iP 11:34:03.2 iS 17.1 Dist. 120 Km. Dilatation Small		eP 19:19:09.0 eS 20.2 Dist. 90 Km.
	eP 12:49:22.3 Distant shock	25	eP 05:34:39.3 Distant shock		iP 22:38:01.7 iS 24.0 Dist. 200 Km.
	iP 13:08:26.5 iS 46.0 Dist. 175 Km. Dilatation from SE Small		eP 07:20:41.6 Distant shock	28	eP 04:43:23.1 Distant shock
	eP 15:57:41.4 Distant shock		iP 14:00:10.9 iS 19.6 Dist. 70 Km. Compression	30	eP 03:20:03.0 eS 32.7 Dist. 275 Km.
	eP 17:49:50.9 Distant shock		iP 14:01:08.4 iS 30.4 Dist. 200 Km. Compression		eP 04:50:09.3 iS 29.1 Dist. 180 Km.
	eP 18:38:53.4 eS 39:31.5 Dist. 360 Km.		eP 16:11:11.4 Distant shock		eP 04:52:39.2 iS 50.5 Doubtful interpretation Explosion? Dist. 95 Km.
21	eP 01:15:46.8 Distant shock		eP 18:04:46.6 Distant shock	Jul.01 1969	eP 07:22:24.5 e(S) 24:24.0
	eP 02:07:15.7 Distant shock		iP 21:55:02.9 iS 05.0 Local Compression		eP 13:22:48.9 eS 23:01.1 Dist. 100 Km.
	eP 03:39:26.6 Distant shock	26	eP 08:10:24.2 Distant shock		eP 13:32:39.0 eS 33:08.3 Dist. 275 Km.
	eP 05:21:55.3 Distant shock		eP 15:41:31.3 eS 41.5 Dist. 80 Km. Small		iP 14:27:29.8 iS 28:01.5 Compression from NE Dist. 295 Km.
	eP 06:55:38.5 Distant shock		iP 21:41:28.0 iS 41.2 Dist. 110 Km. Dilatation		eP 15:08:07.3 eS 39.5 Dist. 300 Km.
23	eP 07:18:36.5 Distant shock	27	eP 02:35:39.3 Distant shock		eP 16:23:30.6 eS 24:02.0 Dist. 295 Km.
	eP 16:06:10.9 Distant shock				

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PROVISIONAL READINGS AT PELDEHUE

Jul.01 eP 21:19:13.7
1969 eS 47.1
Dist. 315 Km.

eP 22:33:34.4
eS 34:06.8
Dist. 305 Km.

02 eP 10:19:(35)
e 44
e 20:02.7
Distant shock

05 eP 22:00:17.6
eS 39.0
Dist. 195 Km.

06 eP 00:06:49
eS 07:15.2
Dist. 240 Km.

eP 02:54:34.5
eS 52.7
Dist. 160 Km.

eP 06:15:47.6
eS 16:19
Dist. 295 Km.

eP 14:45:26.5
Distant shock

iP 17:38:16.4
iS 32.3
Dilatation from NW
Dist. 140 Km.

iP 22:25:17.7
iS 38.8
Dilatation from NE
Dist. 190 Km.

07 eP 02:43:19
e(S) 44:40

iP 04:08:32.4
iS 45.9
Dilatation
Dist. 115 Km.

eP 05:02:47
Distant shock?

eP 07:12:55.8
iS 13:20.8
Dist. 230 Km.

Jul.07 eP 10:07:04.9
1969 eS 22.4
Dist. 155 Km.

eP 18:08:39.0
e(S) 09:56

eP 20:01:54
eS 02:29.8
Dist. 340 Km.

08 ePKP 04:26:17.5

iP 05:26:19.0
iS 35.0
Compression from NE
Dist. 140 Km.

eP 06:38:28.7
eS 55.3
Dist. 245 Km.

eP 07:25:58.2
Distant shock?

eP 13:14:28.8
eS 44.8
Dist. 140 Km.

eP 14:04:34.3
i(pP) 42.7
e 06:03
Distant shock

09 eP 19:59:07.5
e(S) 36.2

eP 22:52:05.6
eS 52.5
Dist. 450 Km.

10 iP 00:27:25.8
iS 51.6
Compression from NE
Dist. 240 Km.

eP 08:44:38.0
e 50
e(S) 46:35

eP 13:26:28.5
eS 57
Compression from NE
Dist. 265 Km.

Jul.10 eP 16:23:16.5
1969 eS 55
Dist. 365 Km.

eP 19:27:37.8
eS 28:01.7
Dist. 220 Km.

eP 23:35:04
e(S) 41

E. Lorca
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PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

Jun.20 eP 08:20:17	Jun.28 eP 20:01:(46)	Jul.08 ePKP 04:26:17
eS 25.5	1969 eS 02:19	1969 iP 05:26:22.8
Dist. 65 Km.	Dist. 310 Km.	iS 41.0
24 eP 08:57:43.5	Jul.03 eP 02:34:35.0	Dist. 160 Km.
25 eP 14:00:09.7	1969 iS 39.5	Dilatation
eS 17.6	Local	
Dist. 60 Km.	06 eP 17:39:19.5	10 eP 00:27:29.0
26 iP 21:41:25.0	eS 38	e(S) 58.5
i(S) 36.0	Dist. 165 Km.	e(P) 08:44:54
Compression	eP 22:25:19.8	e(S) 46:57
27 iP 04:03:28.8	e(S) 42	eR 47:17
iS 40	07 iP 04:08:33.9	iP 13:26:33.0
Dist. 90 Km.	iS 50.0	eS 27:02.5
Dilatation	Dist. 140 Km.	Compression
iP 06:03:28.6	Compression	Dist. 275 Km.
iS 39.5		
Dist. 90 Km.		
Dilatation		

J. Salas
Seismologist

PROVISIONAL READINGS AT VALDIVIA

39° 47' 24" S 73° 16' 00" W h 12 m

Jun.02 eP 18:01:04.3	Jun.08 eP 14:53:08	Jun.15 eP 13:04:20.5
1969 iS 19	1969 eS 44	1969 eS 43.5
Dist. 125 Km.	Dist. 340 Km.	Dist. 210 Km.
05 eP 16:16:(27.4)	09 eP 01:45:40.5	
eS 31	iS 48	
Local	Dist. 55 Km.	
eP 16:30:30.6	15 eP 04:40:12.5	
iS 37.5	eS 32.5	
Dist. 50 Km.	Dist. 180 Km.	

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PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

Jun.14 1969	eP 13:02:42.7 eS 58.1 Dist. 120 Km.	Jun.16 1969	eP 20:03:06.2 e 07.2 eS 22.3 Dist. about 130 Km.	Jun.18 1969	eP 07:13:39.7 e(S) 14:03.0 e(P) 07:20:03 eS 29.7 eP 09:06:39.2 eS 07:21.4 Dist. 390 Km. eP 10:04:08.7 eS 14.9 Dist. 60 Km. eP 21:03:19 Distant shock eP 21:55:23 eS 56.2 Dist. about 300 Km.
	eP 14:20:02.5 eS 14.3 Dist. 100 Km.		e(P) 22:30:10.2 eS 47.6		
	e(P) 14:40:33 eS 50.2	17	iP 01:16:50.3 iS 17:10.0 Dist. 170 Km. Compression from ESE		
	eP 19:11:41 Local		eP 03:47:41 e(S) 48:18.5		
	eP 23:09:05 eS 45.8 Dist. about 360 Km.		eP 06:24:58.6 eS 25:18.8 Dist. 170 Km.		
15	eP 04:35:55.7 eS 36:21.5 Dist. 230 Km.		eP 08:55:17.9 eS 56:09.0 Dist. 480 Km.	19	eP 01:10:43 e 49.0 e(S) 11:24.4 iP 10:10:10.3 iS 46.0 Dist. 320 Km. Compression from NNE
	eP 07:05:22.5 iS 06:00.0 Dist. 340 Km.		e(P) 10:07:03.5 eS 08:05.7		
	eP 08:44:03.0 eS 33.5 Dist. 280 Km.		eP 14:48:14.6 eS 52.2 Dist. 340 Km.		
	eP 09:56:59.2 eS 57:36.4 Dist. 330 Km.		eP 15:11:01.3 e 34.2 Local		eP 11:57:40.2 eS 58:17.0 Dist. 330 Km.
	eP 19:10:22.7 eS 11:02.0 Dist. 350 Km.		eP 17:34:30.3 eS 46.1 Dist. 130 Km.		eP 12:14:21.5 Local
	eP 21:39:18.7 eS 58.1 Dist. 350 Km.		iPKP 19:45:47.0 i 46:39.5		eP 14:41:25.5 eS 51.2 Dist. 230 Km.
16	eP 09:01:50 eS 02:12.3 Dist. about 190 Km.		eP 23:30:24.5 eS 59.3 Dist. 310 Km.		eP 15:05:09.3 eS 25.4 i 35.0 Dist. 130 Km.
	ePKP 16:05:36.5	18	eP 00:11:28.5 eS 22:22 eSS 28:27 eSSS 32:20 eG 35:42 eR 40:08 Dist. about 91°		eP 21:02:52.8 eS 03:25.9 Dist. 250 KM.
	eP 17:16:57.7 eS 18:16.0 Dist. 760 Km.		eP 01:48:49.3 eS 49:30.7 Dist. 380 Km.	20	iP 04:34:59.7 iS 35:27.8 i 29.5 Dist. 250 Km. Compression
	eP 17:25:17.0 eS 21.5 Dist. 40 Km.				
	eP 19:45:56.2 eS 46:02.0 Dist. 50 Km.				



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PROVISIONAL READINGS AT ANTOFAGASTA

Jun.20 eP 07:00:43.0	Jun.22 eP 10:28:06.2	Jun.28 eP 20:32:21.0
1969 Distant shock	1969 eS 47.0	1969 e 33.0
eP 11:11:(06.8)	Dist. 370 Km.	eS 56.7
eS 12.2	eP 11:43:(38.1)	Dist. about 320 Km.
Dist. about 50 Km.	eS 44:00.0	29 eP 00:08:(38.1)
ePKP 15:57:30.7	Dist. about 190 Km.	eS 09:18.0
eP 20:35:02.5	e(P) 12:33:30	Dist. about 360 Km.
eS 24.5	e(S) 35:15.2	eP 07:19:43.8
Dist. 190 Km.	eP 15:50:30.5	eS 20:09.2
21 eP 02:37:59.5	eS 51:09.1	Dist. 220 Km.
eS 38:18.5	Dist. 350 Km.	eP 10:47:07.2
Dist. 160 Km.	eP 16:34:48.7	Distant shock
eP 04:28:08	eS 35:16.2	eP 18:46:46.0
e(S) 39.1	Dist. 250 Km.	eS 47:22.1
eP 05:21:55	eP 17:55:16.6	Dist. about 320 Km.
e(S) 22:54.5	Local	eP 19:07:05.0
eP 10:45:54.8	eP 21:38:14.5	eS 54.5
eS 46:22.4	e(S) 39:00.2	Dist. 470 Km.
Dist. 250 Km.	23 eP 13:20:36.8	30 eP 06:00:35.5
eP 11:21:43	eS 21:12.5	eS 01:13.0
eS 22:04.0	Dist. 320 Km.	Dist. 340 Km.
i 07.2	eP 14:35:23.0	eP 09:48:29.5
Dist. about 180 Km.	e(S) 55.5	eS 49:05.5
eP 14:00:56.8	eP 16:04:27.2	Dist. 320 Km.
eS 01:43.8	i 28.2	e(P) 14:40:17
Dist. 440 Km.	iS 58.6	eS 40.5
eP 15:30:57.2	Dist. 280 Km.	eP 15:17:56.5
i 31:03.0	24 eP 04:31:00	eS 18:20.0
Distant shock	e(S) 32:03.5	Dist. 210 Km.
eP 15:54:31.0	e(P) 05:20:32	eP 18:15:57
eS 56:14.0	eS 21:57.5	eS 16:30.0
e 57:58.5	eP 08:40:49.3	Dist. about 300 Km.
Dist. 810 Km.	eS 41:24.7	eP 18:41:15.2
iP 18:23:11.8	Dist. 310 Km.	e 44:33.0
eS 57.5	e(P) 08:58:15.5	PZ 0.16 u T 1.0 sec.
i 59.5	i(S) 59:33.5	eP 19:35:12.0
Dist. 430 Km.	iP 22:26:37.5	eS 17.2
Compression from ENE	eS 27:00.5	Dist. 50 Km.
eP 18:39:38.0	i 01.8	eP 20:05:16.2
Local	Dist. 200 Km.	eS 06:39.0
22 eP 04:41:11.0	Compression	Dist. 810 Km.
i 11.8	No records from Jun.	iP 22:03:58.0
iS 39.7	25 at 14:00 to Jun.	iS 04:34.6
Dist. 260 Km.	28 at 14:00.	Dist. 230 Km.
eP 06:48:58.8	28 eP 20:02:39.1	Compression from ESE
eS 49:29.5	e(S) 04:12.5	
Dist. 270 Km.		

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PROVISIONAL READINGS AT ANTOFAGASTA

Jul.01	eP	04:54:(51.2)	Jul.02	eP	06:59:38	Jul.03	iP	12:28:05.0
1969	eS	55:12.5	1969	eS	07:00:16.8	1969	iS	09.5
		Dist. about 180 Km.			Dist. about 350 Km.			Dist. 40 Km.
	eP	05:53:02.6		eP	07:43:53.3			Dilatation from NW
	e(S)	28.0		eS	44:41.5		eP	15:58:53
					Dist. about 450 Km.		e(S)	59:37.5
	iP	07:22:41.7		eP	10:14:53.5			No records from
	iS	23:20.5		i	56.7			Jul.03 at 16:00
		Dist. 350 Km.		iS	15:29.3			to Jul.04 at 14:00.
		Compression from E			Dist. 320 Km.			
	eP	07:58:12.0		eP	17:08:39.8	04	iP	16:33:24.7
	eS	47.5		eS	09:08.8		iS	42.7
		Dist. 320 Km.			Dist. 260 Km.			Dist. 150 Km.
	eP	08:05:31		eP	17:57:36			Compression from NE
	eS	56.8		eS	58:10.7	05	ePKP	02:03:39.2
		Dist. about 230 Km.			Dist. about 310 Km.			
	iP	10:14:41.6		eP	18:04:06.5		iP	03:24:23.0
	iS	15:17.5		eS	14.8		iS	56.7
		Dist. 320 Km.			Dist. 70 Km.			Dist. 300 Km.
		Compression from SE		eP	19:35:06.7			Compression
	eP	13:36:(17.1)		Local			eP	04:59:58.1
	e(S)	37:22.2					eS	05:03:32
				eP	20:34:31.8		eR	05:30
	eP	14:31:02.2		eS	50.5			Dist. about 20°
	e(S)	32:24.5			Dist. 160 Km.		eP	07:08:(06.4)
				eP	22:49:29.5		eS	38.4
	eP	16:32:27.0		eS	50:15.5			Dist. about 250 Km.
	Local				Dist. 430 Km.		eP	15:25:48.4
	eP	17:04:(49.0)	03	eP	04:06:38.4		eS	26:24.0
	eS	05:13.4		Local				Dist. 320 Km.
		Dist. about 210 Km.					eP	17:42:58.5
	eP	17:10:25						Local
	eS	42.2		eP	06:35:32			
		Dist. about 140 Km.		eS	36:06.7		iP	19:06:36.9
	eP	19:46:49.3			Dist. about 310 Km.		eS	07:15.5
	Local			eP	10:36:(19.0)			Dist. 350 Km.
	eP	21:04:40.8		eS	57.7			Compression
	Local				Dist. about 350 Km.		eP	23:58:38.8
	eP	22:43:(46.8)		eP	11:15:29.2		iS	49.3
	eS	44:21.2		eS	40.5			Dist. 100 Km.
		Dist. 310 Km.			Dist. 100 Km.	06	eP	00:21:38
	eP	23:39:40		eP	12:00:03.5		e(S)	59.0
	eS	40:19.8		eS	08.3			
		Dist. about 470 Km.			Dist. 40 Km.		eP	08:00:15.2
				eP	12:11:38		eS	30.0
				Local				Dist. 120 Km.

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PROVISIONAL READINGS AT ANTOFAGASTA

Jul.06 eP 19:23:48.5	Jul.08 eP 01:48:49.2	Jul.09 eP 19:40:58.0
1969 eS 24:18.2	eS 49:00.5	1969 Local
Dist. 270 Km.	Dist. 100 Km.	
eP 20:23:14.1	ePKP 04:26:38.4	eP 21:17:13.0
eS 51.7		Local
Dist. 340 Km.	eP 06:11:(48.2)	eP 21:27:24
eP 21:29:58.7	eS 12:25.8	eS 28:12.7
eS 30:16.8	Dist. 340 Km.	Dist. about 460 Km.
Dist. 150 Km.	eP 07:44:36.5	eP 21:38:20
eP 23:46:50.7	eS 45:01.2	e(S) 39:13.0
eS 47:30.3	Dist. 220 Km.	
Dist. 360 Km.	eP 07:57:40.3	eP 21:53:04.0
07 eP 00:05:24.0	eS 58:17.9	iP 25.0
eS 43.7	Dist. 340 Km.	iS 35.8
Dist. 170 Km.		Two shocks?
iP 02:41:58.5	eP 08:22:38	eP 22:01:56.3
iS 42:34.6	eS 23:(07.1)	eS 02:23.0
Dist. 320 Km.	Dist. about 260 Km.	Dist. 240 Km.
Compression from ESE	eP 14:25:(04.5)	eP 23:11:46.0
eP 03:33:49.5	eS 36.7	Distant shock
eS 34:25.3	Dist. about 290 Km.	
Dist. 320 Km.	eP 16:41:42.2	10 eP 00:28:42
ePKP 05:02:47.8	eS 42:(15.4)	e(S) 30:16.5
eS 25:42	Dist. about 300 Km.	
eR 53.0	eP 20:08:26	eP 01:40:56.2
Dist. about 150°	eS 40.3	eS 41:19.2
Distant shock	Dist. about 110 Km.	Dist. 200 Km.
eP 08:40:02	eP 21:09:38	eP 01:51:14.5
eS 30.7	eS 58.0	eS 27.9
Dist. about 260 Km.	Dist. about 170 Km.	Dist. 110 Km.
eP 09:23:(04.3)	09 eP 02:30:(18.2)	eP 08:04:48.8
eS 42.2	e(S) 50.2	e(S) 06:03.0
Dist. about 340 Km.		iP 08:42:42.3
eP 18:35:56.7	eP 08:05:47.0	iS 50.2
eS 36:40.5	eS 56.0	Dist. 60 Km.
Dist. 420 Km.	Dist. 80 Km.	Compression from S
eP 18:53:38.5	iP 10:19:15.0	Felt IV at Antofagasta X
eS 54:15.2	iS 20:02.3	
Dist. 330 Km.	Dist. 450 Km.	eP 09:56:45.6
eP 22:54:21	Compression from NE	Distant shock
eS 48.0	eP 11:13:39.5	
Dist. about 240 Km.	eS 14:16.3	eP 12:18:51.8
eP 23:35:(42.9)	Dist. 330 Km.	eS 19:28.5
eS 36:19.2	eP 12:32:48.8	eP 13:25:42
Dist. about 320 Km.	iS 53.4	eS 26:02.5
	Dist. 40 Km.	Dist. about 180 Km.
		eP 13:27:31.8
		e(S) 29:10.6

Y. Franulic
Seismologist



INTERNATIONAL SEISMOLOGICAL
SUMMARY
~~NEW OBSERVATORY~~
~~RICHMOND SURREY ENGLAND~~

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IMPRESO ORDINARIO

21 NOV 1969

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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

Jul.11 eP 03:34:57.3	Jul.13 eP 01:26:19.3	Jul.15 eP 16:13:12.1
1969 eS 35:35.3	1969 iS 30.9	1969 Distant shock
Dist. 360 Km.	Dist. 95 Km.	
iP 13:23:48.6	eP 05:48:28.3	eP 17:16:00.6
iS 24:07.7	e 51:08.4	eS 32.5
Compression from NE	eL 52:28.5	Dist. 300 Km.
Dist. 170 Km.	Distant shock	eP 18:48:07.1
eP 23:44:23.4	eP 06:30:46.0	Distant shock
iS 53.2	e 32:54.5	
Dist. 280 Km.	Distant shock	16 iP 00:00:47.9
		iS 01:07.1
12 eP 02:52:42.0	eP 06:41:18.4	Dilatation
iS 51.8	iS 27.0	Dist. 170 Km.
Dist. 80 Km.	Dist. 65 Km.	eP 05:07:16.8
eP 03:24:10.5	eP 08:24:47.0	Distant shock
Distant shock	eS 25:05.0	iP 05:43:00.0
eP 05:32:46.4	Dist. 160 Km.	iS 16.8
Distant shock	eP 17:54:25.2	Compression
eP 06:14:51.4	eS 52.5	Dist. 150 Km.
Distant shock	Dist. 255 Km.	eP 03:36:06.4
iP 06:47:01.1	14 eP 06:51:47.0	Distant shock
iS 25.2	e 52:09.9	eP 10:28:02.3
Dilatation from NE	e 50.2	Distant shock
Dist. 220 Km.	eS 53:05.4	eP 14:27:53.1
eP 08:45:54.8	Dist. 784 Km.	Distant shock
eS 46:10.0	eP 06:42:29.5	iP 20:10:39.0
Dist. 130 Km.	eS 50.5	eS 54.3
Small	Dist. 190 Km.	Compression
iP 10:35:01.2	eP 09:03:46.2	Dist. 135 Km.
iS 25.7	Small	iP 23:06:37.2
Dilatation from NE	eP 11:12:50.0	Compression
Dist. 225 Km.	iS 13:15.5	Distant shock?
eP 12:24:08.0	Dist. 230 Km.	
Distant shock	eP 14:22:39.3	17 eP 02:17:30.4
eP 13:20:12.0	eS 53.8	Distant shock
Distant shock	Dist. 110 Km.	eP 03:09:16
eP 13:29:02.5	Small	e(S) 55.6
Distant shock	eP 19:29:12.5	Dist. about 400 Km.
iP 15:10:30.6	eS 47	iP 04:02:11.0
eS 54.9	Dist. 315 Km.	iS 19.8
Dist. 225 Km.	eP 23:55:49.3	Local
Compression	iS 56:02.8	Compression
eP 22:33:29.5	Dist. 115 Km.	eP 18:10:20.0
Distant shock	15 eP 13:54:41.5	e(S) 56.4
	iS 57.6	Dist. about 350 Km.
	Dist. 140 Km.	eP 21:18:42.6
	Small	Distant shock

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PROVISIONAL READINGS AT PELDEHUE

Jul.18 ePKP 05:44:52.3	Jul.19 iP 04:58:37.0	Jul.21 ePKP 22:26:12.0
1969 epPKP 46:39	1969 e(PcP) 05:01:48	1969 Distant shock
ePP 50:03	iS 02:29	
eSKS 51:47	iQ 04:16	22 eP 04:23:40.4
ePPP 54:01	Dilatation from NE	iS 53.3
esKKS 56:51	Dist. 25°	Dist. 110 Km.
e(PcSPKP) 57:01	Depth about 400 Km.	
eSKSP 06:00:31		eP 05:07:35.8
ePPS 04:01	eP 09:10:38.4	Distant shock
eSS 10:45	Distant shock	
eSPS 12:13		iP 06:57:44.3
eSSS 17:36	eP 21:05:12.7	iS 58:06.3
Dist. 170°	eS 06:07.1	Dilatation from N
Mag. 7.5	Dist. 545 Km.	Dist. 200 Km.
eP 06:45:57.8	20 iP 01:50:15.0	eP 11:35:13.2
eS 46:24.9	iS 29.0	eS 29.6
Dist. 250 Km.	Compression	Dist. 145 Km.
	Dist. 120 Km.	
eP 07:00:33.5		eP 12:10:15.6
e 42.5	eP 02:28:48.7	eS 11:(08)
iS 50.6	Distant shock	
Dist. 150 Km.		iP 17:00:16.4
	eP 04:29:53.6	iS 39.7
eP 08:59:29.7	iS 30:09.4	Dilatation from NE
eS 59.2	Dist. 140 Km.	Dist. 215 Km.
Dist. 275 Km.		
	eP 06:05:53.3	iP 23:22:24.8
eP 22:01:39.0	eS 06:16.9	iS 52.5
iS 56.2	Dist. 215 Km.	Dilatation from N
Compression from NW		Dist. 255 Km.
Dist. 150 Km.	eP 07:38:(58.5)	
	eS 39:30.4	23 iP 00:52:06.9
eP 23:20:58.5	Dist. about 300 Km.	iS 28.7
ePcP 23:59		Dist. 200 Km.
eS 25:11	eP 10:01:03.6	Dilatation from N
i(ScP) 26:10	eS 34.9	
eG 27:19	Dist. 295 Km.	eP 04:38:51.7
Dist. 29°		Distant shock
Depth about 400 Km.	eP 12:19:23.1	
	eS 24:00	iP 04:48:02.0
19 iP 02:48:50.6	eSS 25:32	iS 14.8
iS 49:06.5	eR 27:28	Dist. 110 Km.
Dilatation from N	Dist. 27°	Compression
Dist. 140 Km.		
	eP 14:31:(17.0)	eP 05:30:12.7
iP 02:53:13.0	iS 36.2	Distant shock
iS 32.0		
Dist. 170 Km.	21 eP 10:42:20.8	iP 05:41:26.2
	eS 43:01.2	Distant shock
eP 03:34:21.6	Dist. 385 Km.	Compression
Small		
	eP 15:00:30.8	iP 15:52:00.0
eP 03:35:10	i 37.8	iS 14.8
e(S) 36:29	e(S) 01:13	Dist. 130 Km.
Superimposed to		
precedent shock	iP 21:16:40.2	24 eP 01:18:08.6
	iS 54.3	Distant shock
	Dist. 120 Km.	
	Dilatation from NW	

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PROVISIONAL READINGS AT PELDEHUE

Jul. 24 1969	eP 03:04:13.5 epP 05:11 esP 47 eS 08:20 epPcP 44 eQ 10:00 Dist. 25° eP 04:37:29.8 Distant shock eP 05:23:00.8 Distant shock eP 06:38:01.3 Distant shock iP 12:53:30.0 iS 54:06.3 Dist. 345 Km. Dilatation eP 15:52:30.5 eS 53:02.5 Dist. 300 Km. eP 15:17:56.0 eS 18:26.7 Dist. 285 Km. eP 22:00:39.0 eS 01:35.0 Dist. 540 Km.	Jul. 26 1969	iP 01:26:34.7 iS 43.9 Compression Small Dist. 70 Km. eP 03:19:04.3 e(S) 12.0 eP 04:55:35.2 eS 56:08.6 Dist. 315 Km. eP 05:00:43.0 iS 55.4 Small Dist. 105 Km. eP 06:50:(57.2) eS 51:(28.5) Dist. about 295 Km. eP 08:04:24.0 e 26.7 e(S) 37.3 eP 09:16:43.6 eS 17:04.8 Dist. 190 Km. eP 09:18:05.2 eS 26.5 Dist. 195 Km. eP 20:28:(01.5) e(S) 25.1 <i>Small</i> iP 22:04:33.8 iS 44.0 Compression from NE Dist. 80 Km. eP 23:32:(40.0) eS 33:10.7 Dist. about 285 Km.	Jul. 27 1969	eP 17:44:08.3 iP 19:35:14.8 iS 30.0 Compression Dist. 130 Km. eP 23:59:07.5 Distant shock 28 eP 10:49:14.5 eS 39.2 Dist. 225 Km. eP 14:28:31.5 eS 53.5 Dist. 200 Km. eP 14:52:27. Two shocks? eP 15:57:43.4 Small eP 18:49:15.0 iS 26.6 Dist. 95 Km. eP 19:40:52.8 Small iP 22:12:28.0 iS 31.5 Local Compression from SW Explosion? 29 eP 00:40:56.8 Small eP 00:50:00.0 i 08.5 Distant shock eP 02:14:34.5 Small eP 09:19:42.3 eS 55.0 Dist. 105 Km. iP 13:07:44.6 e 47.5 Compression from NW eP 19:18:02.8 e(S) 32.8
25	eP 02:59:08.4 eS 51.0 Dist. 405 Km. iP 06:09:00.4 e 10:40 eS 49 e(ScS) 20:24 Dist. 10° Dilatation from NE eP 07:30:14.5 eS 23.7 Dist. 70 Km. eP 13:53:47.5 eP 15:13:03.5 iS 25.4 Dist. 200 Km. eP 16:17:(24.0) eS 18:(29.7) Dist. about 635 Km.	27	eP 08:42:31.0 eS 43:02.6 Dist. 295 Km. iP 16:11:53.5 eS 12:15.5 Compression from NE Dist. 200 Km. eP 17:40:02.8 eS 31.0 Dist. 260 Km.		

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PROVISIONAL READINGS AT PELDEHUE

Jul.30 eP 03:43:25.9 1969 Distant shock	Jul.30 eP 17:10:(02.0) 1969 iS 11.9 Dist. about 60 Km.	Jul.31 eP 08:28:47.0 1969 iS 29:13.4 Dist. 245 Km.
eP 04:38:38 Distant shock	iP 20:12:57.5 iS 13:08.8 Dist. 95 Km. Dilatation from NE	iP 12:23:32.0 eS 54.5 Dilatation Dist. 205 Km.
iP 12:07:10.4 i 15.2 eS 08:18 i 20.3 Dist. 655 Km. Compression	31 eP 04:42:14 iS 29.9 Dist. 140 Km.	eP 20:12:15.0 eS 32.8 Dist. 160 Km.

H. Becker
Seismologist.

PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

Jul.11 iP 13:23:51.6 1969 iS 24:12.2 Compression Dist. 185 Km.	Jul.19 eP 03:35:02.0 1969 e 20.2 e 36:23 iP 04:58:37.1 Dilatation	Jul.25 eP 06:09:02.2 1969 e 25.5 eS 10:57 Dilatation Dist. 10°
12 eP 03:24:06.0 eS 25:28.5 Dist. 805 Km. eP 10:35:06.4 eS 35.6 Dist. 270 Km.	20 eP 10:01:07.3 eS 40.5 Dist. 310 Km.	eP 13:53:47.4 26 eP 08:04:(33.9) eS 05:43 Dist. 670 Km.
13 iP 06:41:17.6 iS 21.0 Local	21 eP 15:00:(32) iP 21:16:37.2 eS 52 Dist. 115 Km.	eP 09:16:40.7 e(S) 17:02.5 eP 09:18:02.0 eS 24.0 Dist. 200 Km.
14 eP 06:51:43.7 e(S) 53:(10)	22 eP 05:07:32.5 eS 08:(57) iP 06:57:47.7 eS 58:12 Dist. 225 Km. Dilatation	iP 22:04:34.0 iS 44.8 Dist. 90 Km.
18 iP 14:21:20 Dilatation eP 19:01:59.5 eP 22:01:43.5 eP 23:21:02.0	e(P) 12:10:21.5 eS 11:(25)	27 iP 16:11:56.0 iS 12:19.8 Dist. 220 Km. Compression
19 iP 02:48:51.4 eS 49:13.5 Dist. 200 Km. eP 02:53:14.5 eS (36) eP 03:34:(15) Small	23 eP 00:52:10.8 eS (38) iP 05:41:22.2 Compression	29 eP 13:07:50 eS 08:32 Dist. 400 Km.
	24 eiP 03:04:16.7 Dilatation	J. Salas Seismologist

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PROVISIONAL READINGS AT CONCEPCION

36° 49' 41" S 73° 02' 42" W h 46 m

Jun.19 eP 09:25:22.5	Jun.21 eP 07:32:(00)	Jun.21 eP 23:30:06
1969 eS 37	1969 On minute mark	1969 eS 35
Small		Dist. 270 Km.
Dist. 118 Km.		

A. Sickinger
Seismologist

PROVISIONAL READINGS AT VALDIVIA

39° 47' 24" S 73° 16' 00" W h 12 m

Jun.18 eP 02:30:09	Jul.08 e(P) 17:35:14	Jul.25 iP 06:10:06.6
1969 eS 20	1969 iS 19.5	1969 eS 12:42
Dist. 90 Km.		iS 47.5
	11 eP 03:23:22	Dist. 14°
21 iP 07:31:23.5	e 31	
iS 29.5	e 40	26 e(P) 15:10:52
Dist. 50 Km.	i(S) 51	eS 11:06
X Felt IV-V at Valdivia		
eP 15:53:24	14 iP 06:51:00	27 e(P) 01:56:55
eS 42	iS 24.5	eS 57:05
Dist. 150 Km.	Dist. 210 Km.	eP 18:56:46
iP 23:29:56	15 eP 16:12:26	eS 56
iS 30:17	iS 46.5	Dist. 80 Km.
Dist. 170 Km.	Dist. 180 Km.	
24 eP 17:12:22	18 eL 06:51:--	30 eP 12:06:01
iS 30	Distant shock	iS 17
Dist. 60 Km.		i 24
e(P) 09:10:40	eP 15:19:21	Dist. 140 Km.
iS 46.5	iS 43	
	X Dist. 190 Km.	R. Schulz
	Felt IV-V at Valdivia	Seismologist
Jul.01 iP 11:14:44.5	19 eP 03:34:16	
1969 iS 55.2	iS 35:26.5	
Dist. 90 Km.	Dist. 80 Km.	
04 eP 01:52:56	iP 04:59:54	
eS 53:13	eS 05:03:55	
Dist. 140 Km.	L 05:30	
07 eP 18:00:01	Dist. 22,5°	
e(S) 18		
eP 18:07:52	22 eP 05:06:36	
e(S) 08:09	eS 57	
	Dist. 180 Km.	
08 eP 14:03:08	iP 05:29:14.5	
eS 26	eS 35	
Dist. 140 Km.	Dist. 180 Km.	
	23 iP 05:40:08.2	
	iS 19.0	
	Dist. 90 Km.	

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PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

Jul.10 eP 13:37:06.5	Jul.12 eP 00:00:58	Jul.15 eP 05:50:02
1969 iS 11.8	1969 e(S) 01:20.0	1969 e 03.2
Dist. 50 Km.		eS 22.3
	eP 00:34:55.7	Dist. about 170 Km.
eP 14:53:36.0	eS 35:34.7	
eS 54:12.2	Dist. 350 Km.	iP 06:55:55.2
i 15.8		iS 56:00.2
Dist. 320 Km.	13 iP 05:46:22.3	Dist. 50 Km.
	iS 47:25.5	Dilatation from NNW
iP 20:38:49.7	Dist. 600 Km.	
iS 39:02.2	Compression from SE	eP 07:03:02.9
Dist. 100 Km.		e 03.8
Compression from N	iP 06:28:28.2	eS 22.5
	iS 33	Dist. 170 Km.
eP 20:51:58.5	Dist. about 40 Km.	
eS 52:39.0	Compression from SW	eP 08:13:42.8
Dist. 370 Km.		eS 47.3
	eP 09:48:34	Dist. 40 Km.
eP 22:09:48.5	e(S) 49:22.2	
eS 10:26.3		eP 08:51:(17.1)
Dist. about 340 Km.	eP 17:36:40	e(S) 52:32.8
	eS 37:04.5	
eP 23:34:21	Dist. about 220 Km.	eP 17:44:36.2
e(S) 35:22.9		i 36.7
	eP 23:14:14	iS 45:02.0
11 eP 01:55:30.0	e(S) 15:00.4	Dist. 230 Km.
eS 38.2		
i 38.7	iP 23:48:17.7	eP 20:38:11.0
Dist. 70 Km.	iS 22.2	eS 47.0
	Dist. 40 Km.	Dist. 320 Km.
eP 03:19:(41.3)	Dilatation from SW	
eS 20:16.7		e(P) 23:10:33
Dist. about 310 Km.	14 eP 07:46:48.3	eS 58.8
	eS 47:26.1	
eP 06:27:19.7	Dist. 340 Km.	16 eP 00:13:00.7
iS 24.2		e(S) 42.5
Dist. 40 Km.	eP 09:07:51.5	
	e(S) 08:12.5	eP 04:51:24.5
iP 10:21:59.9		eS 56.5
iS 22:19.5	eP 10:57:31.5	Dist. 290 Km.
Dist. 170 Km.	e(S) 58:49.2	
Dilatation	e 56.9	eP 06:25:19.8
		iS 25.2
eP 12:09:08.0	eP 13:06:17.2	Dist. 50 Km.
eS 18.5	e(S) 50.7	
Dist. 90 Km.		eP 06:47:01.8
	eP 23:27:21.6	eS 37.7
e(P) 16:49:08.7	e(S) 28:01.3	Dist. 320 Km.
eS 50:07.5		
	15 eP 03:15:43.5	ePKP 08:36:03.2
iP 19:12:29.4	Local	e 21.0
iS 13:09.3		ePKS 39:27.7
Dist. 360 Km.	eP 05:15:42.0	eSS 56:23.0
Compression from E	iS 47.2	eG 09:12:00
	Dist. 50 Km.	eR 19:30
e(P) 19:30:40.0		Dist. about 135°
Distant shock?		

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PROVISIONAL READINGS AT ANTOFAGASTA

Jul.16 eP 17:32:(04.5)	Jul.18 eP 10:10:08.0	Jul.21 eP 12:22:53.7
1969 eS 35.8	1969 e(S) 49.0	1969 eS 23:32.5
Dist. about 280 Km.		Dist. 350 Km.
eP 19:27:26.5	eP 12:59:06.2	eP 15:03:(45.5)
eS 33.2	iS 13.0	eS 04:32.0
Dist. 60 Km.	Dist. 60 Km.	Dist. about 440 Km.
17 eP 01:51:(03.5)	eP 14:22:28.2	eP 16:58:12.5
eS 39.5	eS 29:32	eS 49.0
Dist. about 320 Km.	eSS 32:55	Dist. 330 Km.
iP 02:13:07.5	eR 37:30	
iS 23.7	Dist. about 49°	eP 19:21:(30.5)
Dist. 130 Km.	e(P) 19:05:42.0	Local
Compression from ENE	Distant shock?	ePKP 20:03:56.8
eP 06:36:(10.5)	eP 19:58:41.0	eP 21:34:30.8
eS 37:00.7	eS 47.1	eS 37.0
Dist. about 410 Km.	Dist. 60 Km.	Dist. 60 Km.
eP 08:39:52	eP 22:22:51	eP 22:26:26.3
eS 40:04.3	eS 23:03.4	e 27:40.7
Dist. about 100 Km.	Dist. about 100 Km.	Distant shock
eP 15:49:24	eP 23:07:34.3	22 eP 02:13:00.2
e(S) 34.0	eS 42.5	eS 37.2
e 35.6	Dist. 80 Km.	Dist. 330 Km.
eP 18:42:17	eP 23:19:15	eP 03:30:27
eS 52.5	eS 20:40	eS 48.5
Dist. about 320 Km.	eR 21:22	Dist. 190 Km.
eP 20:13:35.0	Dist. about 5°	
Local	No records from	eP 07:03:49.2
eP 23:08:53.7	Jul.19 at 00:00	eS 04:26.5
eS 09:13.9	to Jul.20 at 17:39.	Dist. 330 Km.
Dist. 170 Km.	21 eP 03:23:55.7	eP 10:07:13
18 eP 01:27:21.2	iS 24:01.2	eS 27.2
i 29.4	Dist. 50 Km.	Dist. about 110 Km.
iS 37.5	eP 04:43:50	eP 12:10:28.1
Dist. 130 Km.	eS 44:11.7	e(S) 11:35.1
ePKP 05:44:52.7	Dist. about 190 Km.	i 49.4
ePP 49:28.4	eP 05:46:59.5	e(P) 12:32:15
eSPP 06:03:00	Local	eS 50.1
eSS 10:07	eP 06:35:54.1	eP 16:02:49.5
eG 30:00	i 54.7	eS 55.7
eR 39:00	eS 36:45.8	Dist. 60 Km.
Dist. about 161°	Dist. 490 Km.	eP 16:23:07
iP 07:16:51.4	eP 06:48:(50.5)	eS 35.0
eS 17:26.7	e 49:22.5	Dist. about 250 Km.
Dist. 310 Km.	e(S) 30.7	eP 18:06:08.0
Compression from E	eP 08:52:19.5	eS 24.5
	eS 42.8	Dist. 140 Km.
	Dist. 200 Km.	

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Jul. 22 1969	eP 20:00:47.3 eS 01:13.0 Dist. 230 Km.	Jul. 24 1969	eP 19:41:39.4 eS 44.8 Dist. 100 Km.	Jul. 26 1969	eP 05:00:35.6 eS 54.4 Dist. 160 Km.
23	eP 01:17:38.5 Local iP 01:18:07.3 iS 13.3 Dist. 60 Km. Compression from S ePKP 03:06:36.4 eP 04:38:31 e(S) 39:47.2 eP 06:59:(16.2) e(S) 45.2 eP 18:00:29 eS 57.5 Dist. 260 Km.	25	eP 19:45:42.0 e(S) 48.0 eP 20:42:30.5 eS 43:09.5 Dist. 350 Km. eP 23:29:26.4 e(S) 30:14.7 eP 00:32:07.4 Distant shock iP 06:08:29.6 iS 09:52.5 eR 10:35 Dist. about 7° Dilatation from ESE eP 07:00:15.7 iS 20.0 Dist. 40 Km. eP 07:23:49.7 eS 24:29.5 Dist. 360 Km. eP 07:30:43.1 eS 58.2 Dist. 120 Km. eP 11:30:(38.0) eS 31:07.5 Dist. about 270 Km. eP 15:45:05.6 Local eP 18:38:15.4 eS 52.5 Dist. 330 Km. eP 19:52:31.2 eS 53:11.6 Dist. about 360 Km. eP 20:06:03 e(S) 07:18 eP 22:49:(53.5) eS 50:23.0 Dist. about 270 Km. eP 23:02:57.4 Local	27	eP 08:04:00.0 iS 05:00.1 Dist. 590 Km. eP 12:50:39.9 eS 47.9 Dist. 80 Km. eP 14:14:43.2 eS 48.0 Dist. 40 Km. eP 15:50:21.5 e(S) 51:03.0 iP 17:07:44.5 iS 08:18.4 Dist. 310 Km. Compression from E eP 17:25:35.7 eP 19:34:(15.5) eS 35:15.5 Dist. about 580 Km. eP 19:59:42.5 e(S) 52.7 eP 20:42:43.0 eS 48.4 Dist. 50 Km. eP 04:06:22 e(S) 07:40.5 eP 06:16:04.8 eS 23.9 Dist. 160 Km. eP 13:29:39.8 eS 30:20.7 Dist. 370 Km. eP 15:11:58.6 eS 12:30.5 Dist. 320 Km. eP 17:44:08.0 e(S) 45:05.7 iP 18:29:29.6 iS 49.5 Dist. 170 Km. Compression
24	eP 03:02:24.0 eS 05:23 eSS 42 eR 06:48 Dist. about 16° ePKP 05:23:26.5 eP 06:32:10.0 eS 32.8 Dist. 200 Km. eP 09:00:(14.1) eS 50.0 Dist. about 320 Km. eP 10:48:26.5 e(S) 49:02.5 eP 11:08:59.2 eS 09:23.1 Dist. 210 Km. iP 11:59:19.0 iS 54.5 Dist. 320 Km. Compression from ESE eP 15:21:42.2 eS 22:20.5 Dist. 340 Km. ePKP 15:30:45.5				

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PROVISIONAL READINGS AT ANTOFAGASTA

Jul. 27 eP 21:30:26.5
1969 eS 31:13.0
Dist. 440 Km.

28 eP 01:38:47.2
eS 39:13.0
Dist. 230 Km.

eP 07:18:55.0
eS 19:13.2
Dist. 150 Km.

29 eP 13:09:(51.5)
e(S) 10:24.3
i 38.0

eP 18:26:09.0
eS 27:01.0
Dist. 490 Km.

Jul. 30 ePKP 04:38:34.8
1969

eP 07:00:18.6
eS 55.5
Dist. 330 Km.

eP 10:10:57
e(S) 11:38

No records from
Jul. 30 at 14:00 to
Jul. 31 at 15:30.

31 iP 19:32:43.0
eS 33:35.3
i 39.7

Dist. 490 Km.
Dilatation

Jul. 31 eP 20:21:58.1
1969 iS 22:33.8

Dist. 320 Km.

eP 20:35:(11.5)
eS 31.5
Dist. about 190 Km.

eP 22:35:30.7
e(S) 36:10.3

eP 22:50:58

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Seismologist

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IMPRESO ONOMARIO



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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

Aug. 11 1969	ePKP 21:46:13.2 Dist. 147° Mag. 7.6	Aug. 13 1969	iP 04:09:52.3 iS 10:11.5 Dist. 170 Km.	Aug. 14 1969	eP 19:57:47.5 15 ePKP 04:51:47.0
	ePKP 23:41:29.5		i(P) 08:51:17.8		eP 09:01:03.0 Dilatation
	ePKP 23:46:48.5		eP 09:43:48 eS 45:19 Dist. 900 Km.		iP 13:45:12.0 e 22 eS 36.5 Dilatation
12	ePKP 00:01:48.4		eP 11:50:02.8 eS 58 Dist. 280 Km.		Dist. 225 Km.
	ePKP 00:12:31		eP 15:05:02.8 eS 26.6 Dist. 200 Km.		eP 17:54:29 e(S) 55:04
	ePKP 00:33:54.7		eP 19:40:41.7 e 41:22.4 e(S) 39.8	16	eP 08:57:49 e(S) 59:15
	ePKP 01:07:04.3		eP 21:57:13.2 i 14.0 iS 31.6 Dist. 160 Km.		eP 15:35:15.0
	ePKP 02:41:25.5		ePKP 23:16:52.0 e 18:12 eSS 39:40 eQ 57:50 eR 00:05:20 Dist. about 150°		eP 18:30:21 Two shocks
	ePKP 03:53:23.5				iP 22:11:30.8 eS 48 Dilatation from NE Dist. 150 Km.
	ePKP 04:18:00.4	14	ePKP 00:49:08.0	17	iP 02:04:19.8 eS 30 Compression from N
	ePKP 05:13:22.8		eP 01:36:23.1 eS 52 Dist. 260 Km.		iP 07:21:07.0 e 21.4 eS 46 Dist. 370 Km.
	ePKP 05:23:10.3		iP 01:48:16.7 iS 29.6 Compression from NE Dist. 110 Km.		iP 11:50:10.0 eS 21 Dist. 90 Km.
	ePKP 06:13:11.6		eP 09:17:25.5 e 43 e(S) 18:10.4		iP 12:14:37.7 Dilatation from SE
	ePKP 06:58:36.1		iP 12:15:13.9 eS 38,2 Dilatation from N Dist. 225 Km.		eP 20:24:07.8 i 10.0 e(S) 32:08 Compression
	ePKP 07:30:26.5		iPKP 14:38:46.5 i 48.4 i 53.0		e(P) 20:26:00.6
	ePKP 09:45:52.4			18	eP 01:12:00.0 eS 18:26 eSS 21:42 Dist. 45° Mag. 6.6
	ePKP 09:53:26.7				
	ePKP 11:40:03				
	eQ 12:29:30				
	iP 12:40:55.7 Compression from NE				
	i(P) 13:15:13.0 Dilatation				
	eP 13:37:31.5 iS 54.0 i 38:07.0 Dist. 205 Km.				
	e(P) 03:49:00.4 i 14.0				

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PROVISIONAL READINGS AT PELDEHUE

Aug. 18 1969	eP Dilatation	03:32:54.8	Aug. 19 1969	eP Distant shock	15:42:46.5	Aug. 20 1969	iP iS Compression from SW Local	16:03:26.4 28.9
	eP eS Dist. 355 Km. Dilatation	05:00:13.7 51		eP eS eQ Dist. 54°	17:35:24.5 43:08 48:45		eP e iS Dist. 100 Km.	19:05:32.7 44.0 44.7
	iP eS Dist. 125 Km. Dilatation from NW	05:47:47.7 48:02.0		eP Distant shock	19:18:48.1			
	iP iS Dist. 170 Km.	11:28:23.1 42.0		iP iS Dist. 120 Km. Compression from NE	21:29:53.7 30:07.9			
	e(PKP) Compression	12:03:12.7		iP iS Dist. 105 Km. Dilatation	23:04:13.0 25.7			
	iP iS Dist. 110 Km.	12:04:37.9 50.8	20	iP iS Dist. 120 Km. Dilatation from N	02:00:57.9 01:12			
	eP eS Dist. 255 Km.	14:41:41.4 42:09.0		eP iS Dist. 190 Km.	06:04:57.9 05:18.1			
	eP eS Dist. 140 Km.	19:50:10.6 26.5		ePKP Distant shock	08:09:29.8			
	eP eS Dist. 865 Km.	22:56:17.5 57:46		eP eS Dist. 165 Km.	11:04:22.5 41.1			
19	eP eS Dist. 155 Km.	00:15:58.7 16:16		eP Distant shock	11:44:15.9			
	eP eS Dist. 255 Km.	00:42:13.1 40.7		eP eS Dist. 235 Km.	13:52:25.0 50.5			
	eP e Dist. 255 Km.	01:01:44.5 03:42		e(P) eS Superimposed to precedent shock	13:53:32.7 51.4			
	ePKP Dilatation	09:09:37.6						

H. Becker
Seismologist.

PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

Aug. 11 1969	iP eS Dilatation Dist. 90 Km.	02:56:35.4 46.4	Aug. 11 1969	eP eS Dist. 340 Km.	05:37:41.0 38:(17)	Aug. 11 1969	eP ePKP e(SKSP) eSS eSSS e eG eR Dist. 150°	21:46:14 48:34.4 22:02:10 11:09 16:40 23:49 30:05 41:45
	iP eS Compression Dist. 260 Km.	05:22:19.7 47.5						

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PROVISIONAL READINGS AT SANTIAGO

Aug.12 ePKP 00:12:31.0 1969	Aug.15 eP 13:45:08.3 1969	Aug.19 ePKP 09:09:37.6 1969 Distant shock
ePKP 05:13:22.0	16 eP 18:30:(28)	eP 21:29:53.8
ePKP 05:23:11	iP 22:11:33.6	iS 30:09.5
ePKP 06:13:(13)	eS 51.7	Dist. 135 Km.
13 e(P) 03:49:00.2	Dist. 160 Km.	20 eP 02:00:56.0
eP 04:09:46.5	17 iP 07:21:11.0	eS 01:13.5
eS 10:02.5	eP 20:24:10.8	Dist. 155 Km.
Dist. 140 Km.	eP 20:26:02.0	ePKP 08:09:30.0
15 eP 09:01:02.0	18 iP 05:47:51.7	Distant shock
	eS 48:09.5	
	Dist. 160 Km.	H. Becker Seismologist

PROVISIONAL READINGS AT VALDIVIA

39° 47' 24" S 73° 16' 00" W h 12 m

Aug.11 ePKP 21:47:31 1969	Aug.14 e(P) 14:53:31 1969	Aug.18 e 01:19:36 1969 Distant shock
eSKP ² 50:21	eS 44	19 e 01:01:19
eSKS 53:08	15 eP 13:27:19	e 56
eSKKS 57:07	eS 32	e 02:21
ePSKS 22:01:24	Dist. 100 Km.	eP 15:41:23
ePPS 05:13	17 e(P) 07:22:57	eS 52
e 09:04	e(S) 24:54	Dist. 270 Km.
e 10:24	e 25:17	eP 16:23:18
eSS 11:36	e 20:24:40	eS 47
eSSS 15:07	e 30:06	iS 52
Dist. 15.5°	e 34:06	Dist. 250 Km.
12 eP 16:41:08	e 35:23	
eS 22	e 48:30	
Dist. 110 Km.		R. Schulz Seismologist

PROVISIONAL READINGS AT CONCEPCION

36° 49' 41" S 73° 02' 42" W h 46 m

Aug.11 ePKP 21:47:32 1969	A. Sickinger Seismologist
ePP 51:34	
eSKKS 57:43	
ePS 22:01:30	
eSS 10:06	
eQ 29:28	
Dist. 150° $\frac{1}{2}$ 3°	

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PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

Aug.11 1969	iP 01:13:36.4 iS 49.7 Dist. 111 Km. Compression from N	Aug.12 1969	eP 07:23:18 e(S) 42.6 i 24:00.8	Aug.14 1969	eP 00:49:32.5 eP 07:43:16.3 eS 42.1 Dist. 230 Km.	
	iP 01:25:07.0 eS 45.6 i 47.3 Dist. 350 Km. Compression from N		eP 12:41:17.0 Distant shock		eP 09:17:26.1 eS 18:30.0 Dist. 640 Km.	
	eP 02:37:39.6 eS 38:34.8 Dist. 530 Km.		eP 15:18:52.8 eS 19:48.2 Dist. 520 Km.		iP 10:44:43.2 iS 45:21.5 Compression from E Dist. 340 Km.	
	iP 03:44:20.4 iS 41 Dist. about 170 Km. Compression from ESE		iP 18:36:23.2 iS 29.2 Dist. 60 Km. Dilatation from NE		eP 12:34:17.0 eS 37.6 Dist. 180 Km.	
	eP 06:00:26 eS 51.6 Dist. about 230 Km.	13	ePKP 21:35:44.7		eP 19:57:51.5 iS 59:09.1 Dist. 160 Km.	
	iP 13:02:21.6 iS 47.7 Dist. 230 Km. Compression from SE		eP 03:21:14.8 eS 44.4 Dist. 270 Km.	15	iP 08:26:06.6 iS 43.2 Dilatation Dist. 370 Km.	
	eP 16:31:56.0 e(S) 32:24.5		eP 08:04:02.9 i 03.2 eS 13.3 Dist. 90 Km.		iP 09:01:04.9 iS 02:21.3 Dilatation Dist. 760 Km.	
	eP 19:15:33.1 eS 16:10.3 Dist. 330 Km.		ePKP 08:51:03.1		16	eP 00:51:40.3 iP 46.4 eS 52:28.0 iS 36.6 Dist. 480 Km.
	eP 20:48:28.4 eS 49:37.0 Dist. about 670 Km.		eP 09:43:01.0 i 09.1 e(S) 36.3 i 56.1			eP 05:11:45.9 eS 12:03.1 Dist. 170 Km.
	eP 21:20:07.5 eS 29.9 Dist. 190 Km.		eP 19:08:13.6 eS 41.0 Dist. 230 Km.			iP 06:50:25.9 iS 37.0 Dist. 100 Km. Dilatation
	ePKP 21:46:44.4		eP 21:20:29.4 iS 21:05.2 Dist. 320 Km. Compression from ESE			eP 09:12:04.9 i 13.4 iS 51.9 i 56.2 Dist. 470 Km.
12	ePKP 00:12:47.4		eP 21:04:02.2 e 32.5 iS 05:31.5 Two shocks?			
	eP 04:20:23.8 eS 47.2 Dist. 210 Km.		ePKP 23:16:(36.2)			
	ePKP 05:23:00.1					

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PROVISIONAL READINGS AT ANTOFAGASTA

Aug.16 eP 11:40:32.4	Aug.18 iP 01:53:10.0	Aug.19 eP 09:09:22.5
1969 i 41:04.0	1969 iS 50.2	1969 iP 11:01:50.6
iS 06.4	Compression from SE	i 02:48.2
Dist. 340 Km.	Dist. about 400 Km.	iS 57.3
iP 12:07:04.2	eP 01:58:48.3	Dist. about 570 Km.
iS 21.3	eS 59:15.1	Dilatation
Compression	Dist. about 240 Km.	eP 12:15:20.1
Dist. 150 Km.	eP 02:03:50.0	iS 48.6
ePKP 15:35:(00.4)	i 04:33.2	Dist. about 265 Km.
iP 18:28:28.2	iS 34.8	eP 16:25:46.2
Compression from SE	Dist. 450 Km.	e 26:47.7
eP 19:07:06.0	iP 02:50:58.2	iS 27:01.5
iS 21.5	iS 51:13.1	Dist. about 140 Km.
Dist. 140 Km.	Dist. 130 Km.	iP 17:30:28.8
iP 22:29:54.7	Dilatation	iS 31:06.5
iS 30:30.1	ePKP 03:39:08.1	Dist. about 380 Km.
Compression	ePKP 04:05:02.1	Compression from NE
Dist. 350 Km.	eP 04:28:55.3	20 iP 00:11:30.5
17 iP 00:20:37.0	iS 29:17.8	iS 12:12.8
iS 21:14.8	Dist. about 210 Km.	Dist. about 420 Km.
Dilatation	eP 07:24:35.2	iP 05:24:05.2
Dist. 380 Km.	i 25:22.5	iS 24.3
iP 00:29:22.3	iS 24.7	Dilatation
iS 42.2	Dist. about 480 Km.	Dist. about 80 Km.
Compression	ePKP 08:01:20.4	eP 18:18:40.5
Dist. 180 Km.	iP 10:08:46.3	iS 50.8
iP 04:43:36.2	iS 09:23.0	Dist. about 90 Km.
iS 44:18.5	Dilatation	eP 18:15:51.6
Compression	Dist. about 370 Km.	iS 16:08.3
Dist. 420 Km.	eP 13:29:24.7	Dist. about 150 Km.
eP 07:21:35.3	eS 30:08.3	eP 20:13:46.3
i 49.1	Dist. about 440 Km.	iS 14:05.7
iS 23:05.4	eP 14:29:32.1	Dist. about 175 Km.
Dist. 870 Km.	eS (40.4)	eP 23:00:40.6
iPKP 12:14:24.2	eP 22:55:33.8	iS 01:13.0
iP 20:23:20.8	i 56:23.9	Dist. about 320 Km.
iS 25:15.2	iS 31.6	eP 23:32:33.5
Dist. about 10°	Dist. about 580 Km.	iS 53.1
iPKP 20:37:43.6	eP 23:33:19.3	Dist. about 175 Km.
eP 21:28:02.0	iS 43.6	19 iP 08:47:09.5
iS 39.3	Dist. about 220 Km.	iS 20.2
Dist. about 370 Km.	19 iP 08:47:09.5	Dist. about 100 Km.
18 eP 01:44:14.7	iS 20.2	Dilatation from SW
iS 34.9	Dist. about 180 Km.	

L. Vallejos
Seismologist



INTERNATIONAL SEISMOLOGICAL
SUMMARY
KEW OBSERVATORY
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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W 690 m

Aug. 21 1969	eP 02:33:46.5 eS 56.3 Small Dist. 80 Km.	Aug. 22 1969	eP 13:06:22.8 e 39.7 eS 51.8 Dist. 270 Km.	Aug. 24 1969	eP 21:43:22.1 Distant shock
	eP 03:53:04 Distant shock		eP 17:48:15.5 Distant shock		eP 23:10:33.7 eS 44.9 Dist. 90 Km. Small
	eP 06:50:46.2 eS 51:13.3 Dist. 250 Km.		eP 16:31:56.2 eS 32:20.8 Dist. 225 Km.		eP 23:43:27.0 eS 45.6 Dist. 165 Km.
	eP 08:27:54.1 iS 28:48.6 Dist. 525 Km.		eP 19:48:15.8 iS 33.9 Dist. 160 Km.	25	eP 02:39:39.3 eS 40:50 e 41:28 e 39 Dist. 690 Km.
	iP 10:35:44.3 Distant shock		iP 20:35:11.5 iS 13.9 Local		iP 03:21:41.4 iS 59.1 Dist. 155 Km. Compression
	eP 13:44:44.5 Distant shock		eP 22:23:32.2 eS 52.2 Dist. 180 Km.		eP 12:59:55.6 eS 13:00:37.5 Dist. 400 Km.
	eP 14:37:50.0 Distant shock	23	eP 23:00:06.8 eS 23.8 Dist. 150 Km.	26	eP 00:12:46.8 eS 13:02 Dist. 130 Km.
	eP 15:59:(51.0) e(S) 16:01:21.0	24	eP 03:05:37.4 eS 46.2 Dist. 70 Km. Small	27	eP 01:13:33 eS 14:06 Dist. 310 Km.
	eP 21:28:48.9 eS 29:18.3 Dist. 275 Km.		eP 03:54:45.0 eS 55:(12.6) Dist. about 255 Km.		iP 10:15:04 iS 13 Compression from NE Dist. 70 Km.
	iP 22:03:48.4 iS 04:04.4 Compression from SE Dist. 140 Km.		eS 03:55:51.3 Superimposed to pre- cedent shock		iP 13:42:22.5 Compression Distant shock
22	eP 02:10:35.0 Small		eP 04:08:04.8 eS 45.0 Dist. 380 Km.		iP 15:59:17.5 Dilatation Distant shock
	eP 02:54:39.5 eS 56:(05.3) Dist. about 240 Km.		eP 13:14:53.1 eS 15:10.9 Small Dist. 158 Km.		iP 19:43:02 Dilatation Distant shock
	eP 05:50:37.6 eS 55.9 Dist. 165 Km.		eP 13:50:27.4 eS 49.8 Dist. 205 Km.		e(P) 20:53:59 eS 55:(24)
	eP 10:15:36.5 Distant shock		iP 18:31:03.4 eS 19.2 Dist. 140 Km.		
	eP 12:41:25.2 eS 42.3 Dist. 150 Km.				

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PROVISIONAL READINGS AT ANTOFAGASTA

Sep.07 eP 05:56:51.4	Sep.08 eP 22:44:56.1	Sep.09 eP 23:55:15.3
1969 eS 57:11.0	1969 iS 45:56.4	1969 i 56:01.4
Dist. about 170 Km.	Dist. about 600 Km.	iS 27.1
iP 06:32:59.3	09 iP 01:54:19.6	Dist. about 610 Km.
iS 33:20.7	iS 34.2	10 eP 03:43:47.1
Dist. about 190 Km.	Compression	i 44:35.7
Compression	Dist. about 130 Km.	iS 45:14.1
eP 09:16:36.5	ePKP 05:35:36.9	Dist. about 870 Km.
iS 59.0	eP 08:17:45.1	eP 08:48:00.0
Dist. about 190 Km.	i 57.6	iS 25.2
eP 08:23:37.1	Dist. about 110 Km.	Dist. about 230 Km.
iS 24:07.4	eP 09:16:52.9	eP 09:25:56.6
Dist. about 300 Km.	iS 17:12.4	iS 26:41.1
iP 12:41:22.0	Dist. about 170 Km.	Dist. about 440 Km.
iS 59.1	iP 15:30:40	eP 10:58:29.1
Compression from NE	iS 36:45	iS 41.8
Dist. about 370 Km.	G 39:38	Dist. about 110 Km.
No records from Sep.07	SS 59	
at 13:29 to Sep.08 at	SSS 40:35	
15:19. No electric power.	R 42:05	
08 eP 15:25:22.0	Compression	
i 45.5	Dist. about 37°	
iS 47.5	iP 20:21:42.8	
Dist. about 230 Km.	iS 22:20.6	
eP 16:13:23.3	Dilatation	
i 54.0	Dist. about 360 Km.	
iS 14:06.4	eP 21:15:49.0	
Dist. about 430 Km.	i 16:19.4	
eP 22:03:48.7	iS 43.6	
i 04:16.1	Dist. about 540 Km.	
iS 31.4		
Dist. about 430 Km.		

L. Vallejos
Seismologist.



IMPRESO ORDINARIO

INTERNATIONAL SEISMOLOGICAL
SUMMARY
KEW OBSERVATORY
~~RICHMOND SURREY ENGLAND~~

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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W 690 Km.

Sep.11 1969	iP 03:39:37.0 iS 45 Dist. 60 Km. Compression from SW	Sep.14 1969	eP 21:33:19.3 eS 34.3 Dist. 130 Km.	Sep.19 1969	iP 05:02:14.3 iS 03:26.8 Dist. 705 Km.
	iP 11:44:00.7 eS 19 Dist. 165 Km.	16	iP 02:07:00.5 iS 07:45 Dist. 400 Km. Dilatation from SW	20	iP 08:05:08.2 iS 23.6 Dist. 135 Km. Compression from SE
	eP 22:40:48.5 eS 41:13.5 Dist. 230 Km.		eP 06:53:10.8 eS 30.3 Dist. 175 Km.		iP 10:41:57.7 iS 42:50.2 Dist. 505 Km.
12	eP 07:03:27 eS 45 Dist. 160 Km.		eP 09:26:10 eS 29.5 Dist. 175 Km.		eP 15:34:55 eS 41:36.2 eG 45:05 eR 47:24 Dist. 45°
	ePKP 09:16:05 ePP 18:05 eSKS 23:03 eSKKS 24:56 eSP 28:08 eSS 35:13 eG 50:00 eR 55:04 Dist. 126°		eP 09:45:11 eS 26 Dist. 130 Km. Dilatation from N	21	eP 02:03:08 e(S) 05:25 Compression from S? Dist. about 12°
	iP 10:15:24.5 Compression Doubtful Interpretation Two shocks superimposed?	17	iP 01:31:25.7 Dilatation from E		iP 06:16:06.5 iS 23.5 Dist. 150 Km.
	iP 13:05:22.5 iS 32.5 Dist. 80 Km. Compression		iP 10:01:07.2 iS 01:28.7 Dilatation from SW Dist. 195 Km.		eP 11:32:27.5 eS 35:21 Dist. about 17°
13	eP 10:55:19 e 26 eS 57:30 Dist. 13°	18	iP 11:15:16.0 iS 25.2 Dist. 70 Km. Compression from SE		iP 19:04:39.8 iS 53.0 Dist. 110 Km.
14	iP 10:57:06.3 iS 40.3 Dist. 320 Km.	19	eP 01:08:42.8 eS 09:20.8 Dist. 360 Km.	22	eP 02:05:(55) Distant shock
	iP 13:20:42.5 eS 21:22 Dist. 375 Km.		iP 01:49:14.8		iP 03:50:10.1 iS 25 Dist. 130 Km. Dilatation from SW
	eP 16:29:55.1 eS 30:13.6 Dist. 165 Km.		eP 03:47:04		eP 04:12:20.5 Distant shock
	eP 18:45:36.7 eS 55.1 Dist. 165 Km.		iP 04:02:57.5 e 03:15.5 iS 20.3 Dist. 210 Km.		iP 07:36:15.8 eS 32 Dist. 140 Km.
			iP 04:28:50.9 iS 29:04.5 Compression from SE Dist. 115 Km.		eP 07:37:11.5 iS 44 Dist. 305 Km.

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PROVISIONAL READINGS AT PELDEHUE

Sep.22 eP 09:17:21.3 1969 Distant shock	Sep.25 eP 04:40:29 1969 e(S) 41:02.5 Two shocks superimposed?	Sep.27 iP 09:10:02.5 1969 iPP 11:05.0 eS 14:58 eG 16:15 eR 18:23 Dist. 30°
eP 13:57:02.5 Distant shock	eiP 05:58:53 e 59:15 eS 45 Dist. 400 Km. Compression from NW	iP 13:49:54.5 eS 50:28 Dist. 315 Km.
iP 14:22:34.8 iS 47.5 Dist. 105 Km. Dilatation from NE	iP 06:03:54.5 iS 04:16.7 Dilatation from NE Dist. 200 Km.	iP 16:39:09.0 e 25.5 iS 36.3 Dist. 255 Km.
23 iP 00:57:56.5 iS 58:16.5 Compression from SE Dist. 180 Km.	iP 10:51:43.8 eS 59 Dist. 130 Km.	eP 21:00:44 iS 01:25.5 Dist. 395 Km.
iP 01:29:11.5 eS 35:09 eSS 37:50 eR 39:25 Dist. 38°	iP 12:21:09.5 iS 54.5 Dilatation from SW Dist. 430 Km.	eP 22:53:33 eS 54:08 Dist. 330 Km.
iP 14:27:54.5 iS 28:11.0 Dist. 145 Km. Compression	iP 12:27:56 iS 28:47.5 Dilatation Dist. 395 Km.	28 eP 03:06:33 eS 07:06.5 Dist. 315 Km.
iP 15:56:59.3 iS 57:01.5 Local Compression	iP 14:56:15.3 eS 56:30 Dist. 125 Km.	eP 11:57:43.3 Distant shock
iP 18:35:47.5 iS 36:19.5 Dist. 305 Km. Dilatation	26 iP 03:39:26.7 iS 49.0 Dist. 105 Km. Compression	29 e(P) 16:39:08.5 Distant shock
24 iP 02:57:30.4 iS 55.5 Dist. 230 Km. Dilatation from NE	iP 05:41:55.5 iS 42:15.5 Dist. 180 Km.	eP 20:15:01 eS 24:29 eG 33:47 eR 36:57 Dist. 75° Mag. DGG 6.2
iP 09:39:10.5 iS 51.5 Dist. 390 Km.	iP 07:15:19.5 iS 41.5 Dist. 200 Km.	30 eP 00:25:07 eS 23.5 Dist. 145 Km.
iP 21:49:58.8 Local Near by explosion? Compression	iP 07:51:32.2 iS 55.5 Dist. 215 Km. Compression	iP 04:23:57 Distant shock
eP 23:24:40 eS 25:40 Dist. 580 Km.	iP 08:13:36.5 eS 44 Dist. 55 Km.	iP 08:12:47.5 eS 13:10 Dist. 205 Km.
25 eP 04:10:20.5 eS 11:22 Dist. 595 Km.	27 iP 07:41:22.5 iS 34 Compression Dist. 95 Km.	iP 14:17:33.0 iS 57.5 Dist. 225 Km.
eP 04:40:06 e(S) 39.5 Two shocks superimposed?	H. Becker Seismologist	eP 18:04:17 eS 14:44 eSS 20:30 eR 31:10 Mag. DGG 6.1 Dist. 86°

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PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

Sep.12 eP 13:05:25.5	Sep.16 ePKP 14:42:23.8	Sep.24 eP 02:57:31
1969 eS 38.5	1969	1969
Dist. 110 Km.		25 eP 04:40:33
eP 15:40:06.0	18 eP 11:15:18.4	eP 05:58:56
e 22	eS 29.9	eP 06:03:57
iP 16:23:23.2	Dist. 95 Km.	eS 04:23
eS 56.4	19 iP 04:28:46.2	Dist. 240 Km.
Dist. 310 Km.	Dilatation	eP 12:21:05
14 eP 10:57:10.5	20 iP 08:05:04.2	26 iP 08:13:39.0
eP 21:33:21.0	Compression	iS 50.5
eS 38	21 eP 06:16:09	Dist. 95 Km.
Dist. 150 Km.	e 24.5	eP 09:09:59.6
15 eP 07:17:46.6	22 iP 03:50:04.6	29 eP 03:18:52.5
Distant shock	iS 18.7	30 eP 04:23:52.5
16 iP 02:06:56	Dist. 120 Km.	Distant shock
iS 07:36.5	Dilatation	eP 18:04:18.9
Dist. 385 Km.	eP 09:17:19.7	Distant shock
eP 06:53:08.9	eP 14:22:36.7	
eP 09:45:15.7	eS 52	
e 33.5	Dist. 130 Km.	
	23 iP 00:57:51.5	
	Compression	

H. Becker
Seismologist

PROVISIONAL READINGS AT VALDIVIA

39° 47' 24" S 73° 16' 00" W h 12 m

Sep.16 eP 02:06:51	Sep.24 e(S) 18:21:46	Sep.27 eP 09:09:10
1969 iS 07:24.8	1969 e 25:48	1969 e 13:30
Dist. 290 Km.	e 29:15	eS 14:13
e 10:30:20	e 37:28	e 16:35
e(S) 36	L 38:--	Dist. 30°
20 eP 10:41:23	25 e(P) 12:20:52	29 L 20:35:--
eS 47	eS 21:41	
Dist. 210 Km.		
22 eP 16:28:09		
iS 17.5		
Dist. 70 Km.		

R. Schulz
Seismologist.

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PROVISIONAL READINGS AT CONCEPCION

36° 49' 41" S 73° 02' 42" W h 46 m

Aug. 22 eP 02:52:44	Sep. 05 eP 02:22:45	Sep. 25 eP 12:20:24
1969 eS 53:00	1969 eS 23:28	1969 iS 31
Small	eR 38	Felt II at Concepcion
Dilatation	Dist. 420 Km.	Dist. 55 Km.
On minute mark	Small	
Dist. 130 Km.		eP 12:27:10
	11 eP 03:40:23	eS 17
24 eP 07:56:46	eS 41:08	Dist. 55 Km.
eS 57:09.5	Dilatation	Felt I at Concepcion
Dist. 190 Km.	Dist. 440 Km.	
Small		
Dilatation	16 iP 02:06:14	
	iS 21.5	A. Sickinger
eP 22:54:34	Dilatation	Seismologist.
eS 49.5	Felt IV at Concepcion	
Dist. 125 Km.	Dist. 65 Km.	
Small		
	eP 10:30:05	
25 eP 02:38:49.5	eS 23	
eS 39:23	Dilatation	
eR 32.5	Small	
e 40:53	Dist. 150 Km.	
e 41:58		
Dist. 290 Km.	19 e 01:49:05.5	
Dilatation	Dilatation	
	Small	
28 eP 08:38:52		
eS 39:20	e 04:29:25.5	
Dist. 260 Km.	Small	
Small		
	20 eP 08:05:36.5	
30 eP 15:41:32	eS 44	
eS 45	Dilatation	
Dist. 105 Km.	Dist. 65 Km.	
31 eP 04:34:55	eP 08:35:03.5	
eS 35:07	eS 12	
Dist. 100 Km.	Dist. 70 Km.	
Dilatation	Small	
eP 04:39:42	iP 10:41:02	
eS 53	Doubtful interpretation	
Dist. 90 Km.		
Small		

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PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

Sep.11 eP 03:41:51.2	Sep.13 eP 02:34:47.2	Sep.22 iP 13:56:19.2
1969 i 43:41.5	1969 eS 35:13.5	1969 eS 14:03:03
iS 51.7	Dist. about 240 Km.	eQ 06.4
Dist. about 11°	eP 08:06:11.8	eR 10.7
iP 09:16:44.7	i 19.7	Dist. about 47°
iS 17:26.8	iS 25.5	eP 14:12:45.0
Dist. about 420 Km.	Dist. 120 Km.	i 48.1
Compression	iP 10:53:29.1	iS 13:28.6
iP 10:07:37.8	iS 50.6	Dist. about 430 Km.
iS 46.3	Dist. about 190 Km.	eP 14:50:41
Compression from NNE	Compression from NE	iP 16:17:11.0
Dist. about 70 Km.	eP 12:31:11.9	iS 14.4
iP 10:09:28.6	eS 48.1	Dist. about 30 Km.
iS 37.3	Dist. about 360 Km.	Compression from NW
Dist. about 70 Km.	e(P) 14:18:--	eP 16:25:12.1
Compression from NNE	i 58.2	iS 48.0
Dist. about 70 Km.	iS 19:47.8	Dist. about 350 Km.
iP 15:18:49.1	eP 15:32:15.2	eP 20:15:20.7
iS 19:18.0	i 36.4	iS 45.3
Dilatation	iS 41.0	Dist. about 220 Km.
Dist. about 280 Km.	Dist. about 240 Km.	23 eP 01:29:27.5
12 eP 01:51:47.8	eP 18:01:11.5	iS 35.5
iS 53.1	iS 37.1	LQ 37.9
Dist. about 40 Km.	Dist. about 240 Km.	LR 40.0
iP 10:14:49.4	eP 19:38:20.6	Dist. about 37°
i 59.1	i 27.4	iP 02:15:26.2
i 15:10.3	iS 31.6	iS 38.6
Compression	Dist. about 100 Km.	Dist. about 110 Km.
iP 13:12:34.5	eP 21:51:09.8	Compression from NE
iS 13:09.4	e(S) 49.4	eP 17:31:27.6
Dist. about 340 Km.	eP 22:58:40.6	i 37.1
Compression from SE	eS 59:13.7	iS 44.0
eP 16:24:42.1	Dist. about 330 Km.	Dist. about 150 Km.
iS 26:16.2	14 e(P) 05:29:37.1	iP 20:04:35.5
Dist. about 940 Km.	eS 55.2	iS 05:12.2
iP 17:43:49.9	eP 06:18:19.1	Dist. about 360 Km.
iS 44:34.2	i 25.3	Dilatation
Dist. about 440 Km.	iS 27.2	eP 20:13:52.8
Dilatation	Dist. about 70 Km.	iS 14:20.9
iP 22:54:13.2	eP 10:59:50.5	Dist. about 70 Km.
iS 34.1	iS 57.8	eP 22:40:32.9
Dist. about 180 Km.	No records from	iS 54.2
Compression	Sep.14 at 15:12 to	Dist. about 190 Km.
13 e(P) 00:43:(29.6)	Sep.22 at 11:56.	24 iP 00:43:08.0
eS 44:12.0		eS 47.5
		Dist. about 390 Km.
		Dilatation

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PROVISIONAL READINGS AT ANTOFAGASTA

Sep. 24 1969	eP 06:48:07.7 eS 28.5 Dist. about 180 Km.	Sep. 25 1969	eP 18:48:19.3 iS 25.3 Dist. about 50 Km.	Sep. 27 1969	eP 20:06:39.1 i 07:04.3 iS 07.9 Dist. about 270 Km.
	iP 06:52:59.0 eS 53:38.0 Dist. about 390 Km. Compression from WNW		eP 22:55:19.1 iS 51.8 Dist. about 320 Km.	28	eP 04:45:00.8 iS 10.7 Dist. about 80 Km.
	eP 09:58:24.5 i 40.0 eS 43.3 Dist. about 160 Km.	26	eP 07:54:58.0 iS 55:13.0 Dist. about 140 Km.		eP 06:09:09.7 iS 25.6 Dist. about 140 Km.
	iP 12:08:26.6 iS 09:02.0 Dist. about 300 Km. Compression from SE		iP 08:23:51.8 iS 24:31.3 Dist. about 390 Km. Compression from SE		eP 07:46:20.3 eS 55.9 Dist. 350 Km.
	eP 13:33:20.4 iS 47.8 Dist. about 260 Km.		eP 15:49:41.5 i 42.2 iS 50:16.7 Dist. about 350 Km.		iP 11:07:12.7 iS 42.5 Dist. about 280 Km. Dilatation
	iP 18:11:36.7 iPP 13:28.0 iS 19:18 SS 21:36 LQ 22.9 LR 25.3 Dist. about 47° Compression		eP 16:04:06.1 iP 18:08:49.6 iS 54.0 Dist. about 40 Km. Compression	29	iP 01:50:19.5 iS 51.1 Dist. about 310 Km. Dilatation
25	eP 04:10:17.5 iS 11:17.7 Dist. about 600 Km.	27	eP 01:14:56.6 iS 15:33.6 Dist. 370 Km.		iP 02:07:46.3 iS 08:10.4 Dist. about 220 Km. Dilatation from ENE
	eP 04:43:12.5 iS 28.9 Dist. about 140 Km.		eP 09:11:21.7 pP 33.1 PP 12:17.0 iS 17:51.8 LQ 20.2 LR 22.1 Dist. about 40°		iP 02:40:16.8 iS 38.1 Dist. about 190 Km. Dilatation
	iP 05:07:45.6 iS 08:07.1 Dist. about 190 Km. Dilatation		iP 12:19:51.4 iS 20:12.7 Dist. about 190 Km. Dilatation from NE		iP 08:55:41.2 ePKP 16:39:19.4
	iP 05:46:43.3 iS 47:24.4 Dist. about 410 Km. Compression from NE		iP 12:37:46.2 iS 38:09.4 Dist. about 210 Km. Compression from SE		iP 20:15:26.1 iS 25:15.8 SS 30:21.2 LQ 35.7 LR 39.9 Dist. about 80° Compression
	iP 05:58:41.4 i 59:20.1 iS 30.0 Dist. about 480 Km. Dilatation from SW		eP 15:30:28.0 iS 44.9 Dist. about 150 Km.	30	eP 00:15:33.4 iS 16:03.0 Dist. about 290 Km.
	iP 18:44:06.2 iS 11.5 Dist. about 40 Km. Dilatation		eP 18:19:28.7 iS 39.8 Dist. about 90 Km.		eP 01:52:51.6 iS 53:30.3 Dist. about 410 Km.
			iP 19:45:42.3 iS 46:04.4 Dist. about 200 Km. Compression		iP 06:13:04.2 iS 40.3 Dist. about 360 Km. Dilatation

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PROVISIONAL READINGS AT ANTOFAGASTA

Sep. 30 eP 06:54:15.3
iS 45.9
Dist. about 300 Km.

eP 07:49:23.6
iS 38.4
Dist. about 130 Km.

eP 12:05:09.8
iS 47.2
Dist. about 370 Km.

eP 18:02:47.4
iS 03:23.8
Dist. about 360 Km.

eP 21:08:48.7
iS 09:12.3
Dist. about 210 Km.

eP 22:17:17.3
iS 47.6
Dist. about 300 Km.

Sep. 30 e(P) 00:23:15.7
1969

eP 03:32:49.2
iS 33:38.6
Dist. about 490 Km.

iP 04:35:19.0
iS 44.1
Dist. about 230 Km.
Dilatation

eP 05:08:45.1
iS 11:30.0
LR 11.9
Dist. about 12°
From N

eP 06:01:15
iP 22.8

iP 08:17:38.7
iS 18:16.2
dist. about 370 Km.
Dilatation

Sep. 30 ePKP 08:31:19.8
1969

eP 08:48:23.0
eS 48.1
Dist. about 230 Km.

L. Vallejos
Seismologist



INTERNATIONAL SEISMOLOGICAL SUMMARY

~~Kew Observatory~~
~~RICHMOND SURREY ENGLAND~~

M...
6, South Oswald Road,
Edinburgh 9, SCOTLAND.

IMPRESO ORDINARIO

9 MAR 1979 1.

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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

Oct.01 1969	iP 00:21:10 iS 45.5 Dist. 335 Km.	Oct.01 1969	iP 23:05:05.5 iS 28.5 Dist. 210 Km.	Oct.04 1969	eP 21:13:13 Distant shock?
	iP 05:10:36.5 ePP 45 iS 14:40 Compression from NE Dist. 23° h about 33 Mag DGG 6.5-6 3/4	02	eP 04:50:04 Distant shock eP 05:17:53 eS 08:35 Dist. 400 Km. eP 12:48:43 eS 49:40.5 Dist. 550 Km.	05	eP 07:03:21.5 eS 54.5 Dist. 310 Km. eP 10:00:12.5 eS 34 Dist. 195 Km. iP 14:51:15.8 iS 28 Dist. 100 Km.
	iP 06:03:05.5 Distant shock eP 06:32:55 Distant shock iP 08:00:33.5 iS 46.0 Compression from NW Dist. 105 Km. eP 08:33:07 eS 37:19 Dist. 24° iP 12:36:13.5 iS 34 Dist. 185 Km. Compression iP 17:09:38.5 Dilatation iP 17:17:58.5 iPP 19:32 iS 23:39 eSS 25:58 eR 28:00 Dist. 37° Mag. DGG 6 1/4 eP 20:01:11 ePP 02:50 eS 07:34 eG 10:36 eR 13:29 Dist. 44° Mag. DGG 6.7 iP 23:01:16.5 Compression Distant shock	03	iP 01:45:55 Dilatation Distant shock eP 03:52:16.3 iS 26.5 Dist. 80 Km. iP 07:00:06.7 eS 25 Dist. 165 Km. Compression 04 eP 04:46:16.5 eS 24.5 Dist. 60 Km. eP 05:46:09.5 eS 58 Dist. 465 Km. iP 07:52:03.0 i 19.5 eS 54.5 Dist. 495 Km. eP 12:24:14.5 eS 54 Dist. 375 Km. eP 13:30:51 eS 59.8 Dist. 70 Km. eP 17:52:20 eS 38 Dist. 160 Km.	06	eP 15:25:17 e(S) 28:06.5 eP 16:54:08 Distant shock eP 22:12:19.5 eS 38.5 Dist. 170 Km. 06 eP 00:42:54.5 Distant shock eP 02:13:16.5 eS 46 Dist. 275 Km. eP 03:50:12.5 eS 43 Dist. 285 Km. iP 06:41:38 Distant shock Compression from NW eP 11:33:11.5 eS 33.5 Dist. 200 Km. eP 14:40:56 iS 41:07.5 Dist. 95 Km. eP 16:12:30.5 iS 43.5 Dist. 110 Km. iP 19:47:43 eS 48:01.5 Dist. 165 Km. Dilatation

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PROVISIONAL READINGS AT PELDEHUE

Oct.06 1969	eP 19:57:34.5 eS 54 Dist. 175 Km.	Oct.09 1969	eP 21:59:20 eS 41.5 Dist. 195 Km.	Oct.11 1969	eP 02:49:38.5 eS 50:00.5 Dist. 200 Km.
	eP 22:06:24 Distant shock		eP 23:37:40.5 eS 38:07.5 Dist. 250 Km.		iP 04:33:41.5 iS 52.3 Dist. 90 Km. Compression
	iP 23:11:02.5 iS 12 Dist. 75 Km. Dilatation	10	iP 02:34:33.5 eS 47.5 Dist. 120 Km. Dilatation from NW		iP 21:37:10.9 eS 30 Dist. 170 Km. Compression from N
07	eP 03:07:21 eS 30.5 Dist. 175 Km.		e(P) 03:08:51 e 09:34		e(P) 23:55:34.5
	eP 08:14:42.5 eS 53.5 Dist. 90 Km.		iP 06:43:09 iS 31.2 Dist. 200 Km.	12	iP 03:50:31.7 Compression from NE Distant shock
	eP 08:51:36.5 eS 54 Dist. 155 Km.		eP 08:41:33.5 eS 42:03.5 Dist. 280 Km.		eP 04:32:46.5 eS 33:05.5 Dist. 190 Km.
	e(P) 23:08:28.5 eS 55.5		eP 09:19:46 eS 20:01 Dist. 130 Km.		eP 08:07:25.5 eS 56.5 Dist. 290 Km.
	eP 23:12:15 Distant shock		iP 12:18:29 eS 59 Dist. 280 Km.		eP 09:38:31.2 eS 50.5 Dist. 175 Km.
08	eP 01:01:41 eS 02:06.5 Dist. 235 Km.		eP 20:46:55.5 eS 47:12.5 Dist. 150 Km.		iP 09:40:01.8 iS 16.5 Dist. 125 Km.
	iP 02:46:27.5 i 35 eS 49:06 Dist. 15°		eP 21:20:48 eS 21:07 Dist. 170 Km.		iP 22:18:19 eS 40.5 Dist. 195 Km.
	eP 06:00:04.5 eS 35 Dist. 285 Km.		e(P) 21:47:44		eP 23:33:22.3 e(S) 40
	iP 13:54:30.5 iS 55:31.5 Dist. 590 Km. Compression		e(P) 22:08:28.5 eS 59	13	eP 01:22:33.5 eS 54 Dist. 185 Km.
	eP 14:42:22.5		eP 22:23:08 eS 24 Dist. 140 Km.		eP 11:35:33.2
09	eP 01:18:55.5 iS 19:19.8 Dist. 225 Km.		eP 22:59:40.5 eS 23:00:31.5 Dist. 390 Km.		iP 21:44:20.7 eS 43.5 Dist. 210 Km.
	iP 05:42:09.5 eS 31.5 Dist. 200 Km.		eP 23:56:26 eS 40 Dist. 120 Km.	14	eP 01:05:42.5 eS 06:03.5 Dist. 190 Km.
	iP 06:55:25.5 iS 46 Dist. 185 Km.		eP 02:04:19.5 eS 46.5 Dist. 250 Km.		iP 08:17:27.7 iS 43 Dist. 140 Km. Compression from NE

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PROVISIONAL READINGS AT PELDEHUE

Oct.14 eP 14:47:31.6
1969 eS 50
Dilatation
Dist. 165 Km.

eP 20:14:57.5
eS 15:12.5
Small
Dist. 130 Km.

iP 20:32:49.8
e(S) 33:21
Dilatation

iP 21:36:38.4
e(S) 37:08.5
Compression from SE

Oct.15 eP 00:24:42.0
1969 eS 25:11
Dilatation
Dist. 270 Km.

eP 01:41:26
eS 55
Dist. 270 Km.
Small

eP 02:54:02
iS 09.9
Dist. 60 Km.
Small

iP 05:58:14.5
iS 25
Dilatation from NW
Dist. 85 Km.

Oct.15 eP 08:00:56.4
1969 eS 01:25.8
Compression
Dist. 275 Km.
Small

eP 09:30:39.5
e(S) 31:03.5
Small

eP 12:09:58
eS 10:13.2
Dist. 130 Km.

eP 13:33:25
eS 42
Dist. 150 Km.

H. Becker
Seismologist.

PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

Oct.01 eP 05:10:40
1969 Distant shock

eP 06:03:08.9
Distant shock

eP 08:00:36.2
iS 52
Dist. 140 Km.

eP 08:33:10.6
Distant shock

iP 12:36:09.3
iS 25.8
Dist. 145 Km.

eP 17:09:43.6
Distant shock

eP 17:18:02.4
Distant shock

eP 20:01:09.5
Distant shock

eP 23:01:22.4

03 eP 01:45:54
Distant shock

iP 07:00:02.5
eS 17.0
Dist. 125 Km.

Oct.04 eP 07:52:06.5
1969 e 24.4

06 eP 06:41:40.3
Distant shock

07 eP 08:14:36.5

08 eP 02:46:31.5
i 38.0
e 49:24.5

eP 11:47:09.9
e(P) 13:54:27.1

09 iP 06:55:28.0
eS 51.5
Dist. 215 Km.

eP 23:37:44.5

10 eP 02:34:37.0
eS 53.6
Dist. 145 Km.

11 iP 04:33:40.6
iS 51.2
Dist. 85 Km.

eP 17:04:30.5
eS 47.5
Dist. 150 Km.

12 eP 03:50:30.2
Distant shock

Oct.12 eP 22:18:22
1969 eS 46
Dist. 220 Km.

14 iP 08:17:30.5
iS 49
Dist. 165 Km.

iP 21:36:34.5
eS 58.5
Compression
Dist. 220 Km.

15 eP 02:54:04
e(S) 14
Small

iP 05:58:17.5
eS 30.5
Dilatation
Dist. 110 Km.

H. Becker
Seismologist

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PROVISIONAL READINGS AT CONCEPCION

36° 49' 41" S 73° 02' 42" W h 46 m

Oct.01 eP 05:11:10	Oct.08 eP 13:53:39
1969 epP 22	1969 iS 56
eS 15:45	Dist. 140 Km.
Compression	
Dist. about 26°	10 eP 03:08:23.5
	Dilatation
eP 17:19:54	Small
eS 24:27	
Doubtful interpretation	eP 19:56:46.5
Dist. about 26°	eS 57:09
	Small
	Dist. 200 Km.

A. Sickinger
SEISMOLOGIST

PROVISIONAL READINGS AT VALDIVIA

39° 47' 24" S 73° 16' 00" W h 12 m

Oct.01 eP 05:11:42	Oct.05 iP 09:34:42.5	Oct.10 eP 06:35:55
1969 e 16:53	1969 eS 35:03	1969 eS 36:09
e 18:11	Dist. 180 Km.	Dist. 110 Km.
e 19:34		
e 21:00	eP 21:46:20	eP 19:56:55
	eS 35	eS 57:17
e 17:18:48	Dist. 120 Km.	Dist. 180 Km.
e(S) 25:04		
Distant shock	08 eP 13:53:47	
	eS 54:13	
eP 20:00:36	Dist. 220 Km.	
e 09:11		
Distant shock		

R. Schulz
Seismologist

PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

Oct.01 eP 09:38:12.3	Oct.01 iP 21:00:45.9	Oct.02 eP 17:45:44.4
1969 iS 39:03.3	1969 eS 01:09.9	1969 iS 46:23.3
Dist. about 510 Km.	Dist. about 210 Km.	Dist. about 410 Km.
	Dilatation	
eP 10:18:16.2		iP 18:33:04.2
iS 22.5	02 eP 01:34:17.4	iS 10.6
Dist. about 50 Km.	e(S) (54.8)	Dist. about 50 Km.
		Compression
eP 10:28:00.2	eP 04:50:07.7	ePKP 22:24:52.3
i 02.0	iS 58.3	
iS 20.6	Dist. about 500 Km.	
Dist. about 180 Km.		
iP 17:07:56.3	eP 12:48:23.6	Oct.03 eP 06:10:43.1
Compression	iS 49:34.7	1969 iS 59.0
	Dist. about 710 Km.	Dist. about 140 Km.
ePKP 20:02:14.6		
	iP 15:34:42.6	iP 07:53:27.5
	iS 53.3	iS 54.5
	Dist. about 90 Km.	Dist. about 250 Km.
	Dilatation	Compression

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PROVISIONAL READINGS AT ANTOFAGASTA

Oct.03 eP 08:27:05.5 1969 iS 28.6 Dist. about 210 Km.	Oct.06 eP 08:38:29.6 1969 iS 47.7 Dist. 160 Km.	Oct.09 eP 03:56:57.1 1969 iS 57:20.3 Dist. 110 Km.
eP 15:34:14.6 iS 40.1 Dist. about 240 Km.	eP 15:32:59.0 iS 33:29.2 Dist. 300 Km.	iP 08:22:27.5 iS 23:02.9 Dist. 350 Km. Compression from ESE
iP 20:42:47.6 iS 53.4 Dist. 50 Km. Compression	iP 21:25:53.4 iS 26:29.6 Dist. 360 Km. Compression	eP 11:11:27.4 iS 46.4 Dist. 170 Km.
eP 21:33:26.6 iS 34:32.9 Dist. 660 Km.	07 iP 00:54:17.4 iS 53.2 Dist. 360 Km. Compression	10 iP 21:46:12.4 iS 27.8 Dist. 140 Km. Compression
04 iP 06:33:24.7 iS 42.6 Dist. 160 Km. dilatation	iP 02:47:26.6 iS 48:05.7 Dist. 390 Km. Dilatation from NE	eP 22:59:34.4 i 23:00:06.9 iS 26.9 Dist. 520 Km.
eP 07:52:14.1 iS 53:17.5 Dist. 630 Km.	eP 07:13:09.1 iS 34.0 Dist. 230 Km.	11 eP 04:14:04.1 iS 55.0 Dist. 500 Km.
No records from Oct. 04 at 14:05 to Oct. 05 at 14:30. No electric power.	eP 16:26:15.8 iS 21.9 Dist. 50 Km.	eP 06:12:07.7 eS 29.6 Dist. 200 Km.
05 iP 15:23:25.1 iS 52.8 Dist. 260 Km. Compression from NE	iP 18:42:38.7 iS 55.8 Dist. 150 Km. Compression from ENE	iP 11:41:09.4 iS 45.3 Dist. 350 Km. Dilatation
eP 15:59:53.9 eS 16:00:18.2 Dist. 220 Km.	eP 22:29:08.4 i 43.8 iS 48.8 Dist. 400 Km.	iP 12:43:03.7 iS 39.0 Dist. 230 Km. Compression from ESE
eP 17:39:46.5 iS 40:12.1 Dist. 240 Km.	08 iP 02:44:21.7 iS 50.6 eR 45.2 Compression from N	e(P) 21:39:32.6 eS 40:31.5
06 iP 02:58:39.3 iS 55.1 Dist. 140 Km. Compression from NE	e(P) 03:55:14.9 iS 56:23.8	iP 23:54:15.3 iS 51.0 Dist. 350 Km. Compression from ESE
iP 03:35:38.7 iS 36:14.1 Compression Dist. 350 Km.	iP 11:13:27.8 iS 14:06.3 Dist. 380 Km. Dilatation	12 iP 05:27:28.3 iS 28:08.1 Dist. 390 Km. Compression
ePKP 06:39:52.0	eP 18:43:01.0 iS 15.8 Dist. 130 Km.	eP 07:41:19.2 eS 45.6 Dist. 240 Km.
iP 08:08:19.4 iS 56.0 Dist. 360 Km. Compression from NE	iP 21:42:37.4 iS 43:14.6 Dist. 370 Km. Dilatation from ENE	eP 09:53:48.9 iS 54:15.4 Dist. 240 Km.

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PROVISIONAL READINGS AT ANTOFAGASTA

Oct.12 eP 10:50:12.6
1969 iS 38.2
Dist. 230 Km.

eP 13:12:46.2
eS 13:09.2
Dist. 210 Km.

e(P) 14:23:53.3

eP 16:42:40.3
e(S) 43:15.4

eP 19:56:43.6
i 57:13.9
iS 37.8
Dist. 540 Km.

eP 23:24:09.8
eS 47.1
Dist. 370 Km.

13 eP 01:12:35.7

eP 01:56:05.4
eS 28.7
Dist. 210 Km.

iP 04:50:30.2
iS 51:50.3
Dist. 800 Km.
Dilatation

iP 07:14:29.9
Compression

eP 11:35:38.5
eS 36:58.0
Dist. 790 Km.

eP 19:20:05.4
iS 29.1
Dist. 220 Km.

eP 19:34:33.3
iS 39.9
Dist. 50 Km.

eP 21:17:12.6
iS 44.3
Dist. 200 Km.

14 iP 00:15:59.2
iS 16:12.3
Dist. 110 Km.
Compression from S

Oct.14 iP 01:59:08.1
1969 iS 47.5
Dist. 390 Km.
Compression

eP 03:24:16.5
eS 49.6
Dist. 330 Km.

iP 06:32:39.8
iS 33:17.9
Dist. 380 Km.
Dilatation

iP 20:21:38.6
iS 22:06.3
Dist. 260 Km.
Compression from NW

eP 20:35:34.0
e(S) 42.8

eP 22:27:31.7
eS 48.4
Dist. 140 Km.

15 iP 00:18:29.4
iS 19:12.8
Dist. 430 Km.
Dilatation from ENE

iP 04:14:41.2
iS 15:17.6
Dist. about 360 Km.
Compression from ESE

eP 05:14:37.5
eS 15:01.0
Dist. 210 Km.

iP 06:08:24.1
iS 09:11.7
Dist. 460 Km.
Dilatation from NNE

iP 15:04:15.1
eS 57.1
Dist. 240 Km.
Compression from ENE

iP 15:24:18.7
iS 37.7
Dist. 170 Km.
Dilatation from NNE

Oct.15 eP 16:32:29.8
1969

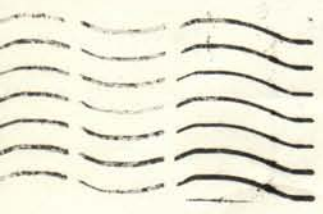
iP 16:53:38.6
iS 54:00.2
Dist. 200 Km.
Dilatation

eP 19:31:41.7
iS 47.7
Dist. 50 Km.

eP 23:27:33.3
eS 42.0
Dist. 170 Km.

iP 23:59:16.9
iS 48.8
Dist. 200 Km.
Compression from SSE

L. Vallejos
Seismologist



IMPRESO ORDINARIO

INTERNATIONAL SEISMOLOGICAL SUMMARY
KEW OBSERVATORY
RICHMOND SURREY ENGLAND

6, South Oswald Road,
Edinburgh 9,
SCOTLAND



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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

Oct.16 1969	eP 12:21:14 eS 26.5 Dist. 105 Km. Small	Oct.18 1969	eP 12:30:15 eS 31.5 Dist. 145 Km.	Oct.20 1969	iP 15:30:02 Distant shock Dilatation
	iP 15:01:25 iS 37.7 Dist. 105 Km.		eP 19:16:51 e 18:16		eP 18:05:20.5 Distant shock
	iP 21:29:14.2 eS 24.2 Dist. 80 Km.	19	eP 22:53:41 e 54:38.5		eP 20:47:49 eS 48:07 Dist. 160 Km.
17	iP 01:45:02.5 epP 52.5 ePcS 49:40 eS 53:22 eSScS 56:12 e(SSS) 02:00:22 e(R) 03:09 Dist. about 65° h about 200 Km.		eP 01:55:55 eS 56:16 Dist. 190 Km.	21	eP 00:57:38.5 eS 56 Dist. 155 Km.
	eP 05:26:51 eS 27:22.5 Dist. 295 Km.		eP 02:26:12.5 e 28:37.5		eP 02:42:06 eS 27 Dist. 190 Km.
	iP 05:41:42.2 eS 42:31 Dist. 470 Km.		eP 02:40:57.5 e 41:47		iP 03:25:33 iS 45.5 Dilatation Dist. 105 Km.
	eP 13:03:38 e(S) 04:43.5		eP 03:30:23.3 eS 40.0 Dist. 145 Km.		eP 04:31:42.5 eS 53.5 Dist. 90 Km. Small
	eP 16:45:59 eS 46:32 Dist. 310 Km.		eP 06:53:06.5 eS 20.5 Dist. 120 Km.		eP 06:00:53.5 eS 01:13 Dist. 175 Km.
	eP 17:56:36.5 eS 48 Dist. 95 Km.		e(P) 07:52:53.5 Distant shock		eP 07:24:58 eS 26:24.5 Dist. 850 Km.
	eP 21:23:37.8 eS 24:01.5 Dist. 215 Km.		eP 08:19:55 e(S) 20:07.3		eP 08:25:23.5 eS 34 Dist. 85 Km.
18	eP 07:00:57 eS 01:11 Dist. 120 Km.		eP 12:45:33 Distant shock		eP 09:16:08 e 17:34
	eP 08:43:35 eS 56.5 Dist. 195 Km.		eP 16:18:40 e 48.5 eS 19:36 Dist. 540 Km.		eP 10:08:32.5 Distant shock
	iP 12:17:29 iS 45.5 Dist. 145 Km. Dilatation from NW		eP 18:41:45.5 eS 42:00.5 Dist. 130 Km.		eP 16:45:50.5 eS 46:29 Dist. 365 Km.
			eP 18:53:10 eS 27.5 Dist. 155 Km.		iP 17:40:31.0 iS 51 Dilatation from SW Dist. 180 Km.
			eP 19:58:44.5 eS 59:01.5 Dist. 150 Km.		eP 20:01:31.5 eS 46.5 Dist. 130 Km.
		20	iP 12:42:45.5 iS 43:06 Dist. 85 Km Dilatation from NE		
			eP 13:19:34.5 Distant shock		

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PROVISIONAL READINGS AT PELDEHUE

Oct. 21 1969	iP 21:45:09 eS 16.5 Dist. 55 Km. dilatation	Oct. 23 1969	eP 17:37:38 eS 38:07.5 Dist. 275 Km. eP 18:04:45 eS 59 Dist. 120 Km. eP 19:06:03 eS 12.5 Dist. 75 Km.	Oct. 25 1969	eP 14:31:05.7 eS 26.5 Dist. 190 Km. iP 17:47:16.5 eS 48 Dist. 295 Km. eP 21:30:48.5 eS 31:06.5 Dist. 160 Km. Small eP 21:45:09.8 eS 23 Dist. 110 Km.
22	iP 00:49:11 iS 33 Dist. 200 Km. Compression eP 00:57:29.5 eS 51.5 Dist. 200 Km. eP 01:41:19.5 e 42:49 eP 09:20:43.5 eS 52 Dist. 65 Km. eP 09:35:05.5 eS 17 Dist. 95 Km. eP 10:25:22.5 ePP 28.5 eS 28:11 eR 29:11 Dist. 16° eP 13:00:26 Distant shock eP 13:29:20.5 eS 52 Dist. 295 Km. eP 23:03:58	24	eP 00:36:52 eS 37:09 Dist. 150 Km. eP 11:19:55 eS 20:12 Dist. 210 Km. eP 11:59:19.5 eS 57.5 Dist. 400 Km. eP 12:05:36 Distant shock eP 17:14:38.5 eS 15:20 Dist. 395 Km. eP 18:43:51.5 e(S) 44:09 eP 23:53:24 eS 58 Dist. 320 Km.	26	eP 03:19:29 Distant shock iP 03:39:22.5 eS 39.5 Dist. 150 Km. eP 06:51:01.5 Distant shock eP 08:57:50.2 eS 58:20 Dist. 280 Km. iP 10:25:58 iS 26:33.5 Dist. 335 Km. Compression from NE eP 19:35:35.5 Distant shock eP 20:34:08.7 eS 34 Dist. 235 Km. eP 21:50:07.5 eS 59:05 eR 22:12:10 Dist. 69°
23	eP 01:57:46 e 50.5 eP 03:39:03.7 eS 19.5 Dist. 140 Km. iP 04:48:24 eS 39 Dist. 130 Km. Dilatation eP 08:59:26 eS 45.5 Dist. 175 Km. eP 17:14:42 eS 15:00.2 Dist. 160 Km.	25	eP 01:26:38.5 eS 27:08 Dist. 275 Km. iP 01:41:03.5 iS 13 Dist. 75 Km. Compression from SE e(P) 04:12:11.5 iP 06:59:00.5 iS 18 Dist. 155 Km. Dilatation from NW eP 11:54:03.5 eS 17 Dist. 115 Km.	27	eP 12:42:56.5 eS 43:16 Dist. 175 Km. Small eP 15:51:50 eS 52:05 Dist. 130 Km. Small

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PROVISIONAL READINGS AT PELDEHUE

Oct. 27 1969	eP eS Local Small	16:00:35 37.5	Oct. 29 1969	iP iS Dist. 830 Km. Dilatation	11:04:53.8 06:19	Oct. 30 1969	eP e eS Dist. 255 Km.	02:48:07.5 21 35
	eP iS Dist. 90 Km.	22:10:30.2 41		eP eS Dist. 790 Km.	11:15:40.5 17:00.5		eP iS Dist. 240 Km.	04:26:00.7 27.5
28	eP e eP eS Dist. 465 Km. eP eS Dist. 75 Km. eP eS Dist. 280 Km. eP iP iS Compression Near by explosion?	02:05:27.5 06:52.5 07:57:01.5 40 08:18:33 42.5 09:15:18 48 19:04:32 21:58:37.2 40		eP eS Dist. 240 Km. iP eS Dist. 185 Km. Compression iP eS Dist. 720 Km. Compression iP eS Dist. 255 Km. Dilatation eP eS Dist. 690 Km. eP eS Dist. 150 Km. eP eS Dist. 85 Km.	12:36:23 49 14:30:11.5 32 16:25:37 26:51 18:34:38.5 37:06		eP eS Dist. 870 Km. eP eS Dist. 190 Km. iP eS Dist. 180 Km. Dilatation iP iS Dist. 85 Km. Compression from NW	07:42:17 43:45 13:12:00.5 21.7 14:26:37.5 57.5 19:24:51 25:01.5
	eP eS Dist. 765 Km.	22:17:07 18:35.5			18:51:06.5 52:17.5	31	iP eS Dist. 340 Km. Compression ePKP eSP eSS eG eR Dist. 127°	07:41:18.5 54.5
29	iP eS Dist. 620 Km. Dilatation from NE eP eS Dist. 85 Km. eP eS Dist. 220 Km.	01:46:20.7 47:34.5 04:54:38.5 48.5 09:08:12.5 36.5			21:20:27.5 38 22:10:43 52.5			
			30	eP eS Dist. 395 Km.	00:39:49.5 40:31			

H. Becker
Seismologist

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PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

Oct.16 1969	iP iS Dist. 75 Km.	21:29:13.0 22.5	Oct.22 1969	eP eP	09:20:45.6 09:35:05.0	Oct.28 1969	eP eS Dist. 60 Km.	08:18:29.5 37.6	
17	eP e Dist. 280 Km.	05:26:54.0 27:24.0		eP	10:25:25.4		eP	09:15:18	
			23	eP	03:39:02.9		29	eP	01:46:24
18	eP eP eP iP	05:41:38.3 04:28:47.5 07:00:52.2 12:17:32.6		iP Dilatation eP	04:48:23.5 08:59:24		eP eS e Dist. 870 Km. iP	11:04:48.5 06:17.5 25 16:25:32.5	
19	eP e eP e	03:30:26.0 45.6 16:18:43.5 19:47	25	iP iS Dist. 70 Km. e(P)	01:41:02.1 11.0 04:12:13.5		eS Dist. 800 Km. iP iS Dist. 60 Km. Compression	26:54 22:10:40.0 48	
20	eP Distant shock	15:30:03.9		eP Compression	06:59:04		30	eP	02:48:10.5
21	eP iP Dilatation iP	07:24:54 17:40:30 21:45:08.5		iP Compression 26 eP eP	17:47:13.0 06:51:02.5 08:57:53.0		iP	04:25:58.4	
22	iP iS Dist. 175 Km. Compression	00:49:07 26.4		iP eS Dist. 315 Km.	10:25:58.7 26:32.0			H. Becker Seismologist	

PROVISIONAL READINGS AT VALDIVIA

39° 47' 24" S 73° 16' 00" W h 12 m

Oct.16 1969	eP eS Dist. 210 Km.	19:17:25 50	Oct.21 1969	eP eS Dist. 140 Km.	09:15:23 39	Oct.29 1969	eP eS Dist. 260 Km.	11:04:08 38	
17	eP eS Dist. 80 Km.	23:48:57 49:07		eS e(P) eS e	10:08:09 17:42:02 43:07 27		e(P) e(S) eP iP ⁿ iS ^g Dist. 220 Km. Felt III at Valdivia	11:15:00 24 16:24:48 53.5 25:18.5	
20	iP iS Dist. 160 Km.	07:30:23 41.5	22	e(P) eS	01:40:36 55		30	eP e(S)	07:41:33 52
21	ePn iPg eSg Dist. 180 Km.	07:24:11 13.5 35	25	eP eS Dist. 420 Km.	17:46:40 47:26			R. Schulz Seismologist	
			28	eP eS Dist. 260 Km.	22:16:18 48				

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PROVISIONAL READINGS AT CONCEPCION

36° 49' 41" S 73° 02' 42" W h 46 m

Oct.17 eP 05:40:52 1969 iS 41:08 Dist. 130 Km. Dilatation	Oct.28 eP 02:04:30.5 1969 e 35 eS 57 Dist. 240 Km. Dilatation Small	Oct.30 eP 07:39:52 1969 e 56 eS 40:17 Dist. 225 Km. Small
21 eP 07:24:02 eS 30 Dist. 260 Km. Dilatation	eP 22:16:11 eS 37 Dist. 235 Km. Dilatation	eP 07:41:21 e 25.5 eS 46.5 Dist. 230 Km. Dilatation
eP 09:15:11.5 Dilatation Small	29 eP 11:03:57 eS 04:22 Dist. 225 Km. Dilatation	
eP 10:07:35.5 Dilatation Small	eP 11:14:44 e 48.5 eS 15:10 Dist. 235 Km. Dilatation Small	A. Sickinger Seismologist
eP 17:41:06 e(S) 42:05 Dilatation	eP 16:24:41 eS 25:06 Dist. 225 Km. Dilatation Felt I at Concepcion	
25 eP 17:46:59 iS 47:20 Dist. 180 Km. Compression		

PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

Oct.15 iP 15:04:15.1 1969 eS 57.1 Dist. 240 Km. Compression from ENE	Oct.15 eP 23:27:33.3 1969 eS 42.0 Dist. 170 Km.	Oct.17 iP 01:21:27.4 1969 iS 51.9 Dilatation Dist. 230 Km.
iP 15:24:18.7 iS 37.7 Dist. 170 Km. Dilatation from NNE	iP 23:59:16.9 iS 48.8 Dist. 200 Km. Compression from SSE	iPKP 01:45:05.5 i 43.3 i 49:54.3 Compression
eP 16:32:29.8	16 iP 01:15:04.1 iS 29.1 Dist. 230 Km. Dilatation	eP 01:54:08.1 eS 55:05.1 Dist. 570 Km.
iP 16:53:38.6 iS 54:00.2 Dist. 200 Km. Dilatation	17 iP 00:34:06.5 iS 58.8 Dist. 520 Km. Dilatation	eP 08:07:20.1 iS 42.7 Dist. 210 Km.
eP 19:31:41.7 iS 47.7 Dist. 50 Km.		eP 08:12:00.3 eS 13:33.9 Dist. 930 Km.

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PROVISIONAL READINGS AT ANTOFAGASTA

Oct.17 eP 10:44:23.5	Oct.18 eP 17:29:17.8	Oct.19 iP 23:20:15.3
1969 iS 52.6	1969 eS 33.8	1969 iS 56.3
Dist. 270 Km.	dist. 140 Km.	Compression from ESE Dist. 410 Km.
e(P) 11:19:26.1	eP 17:32:23.1	20 eP 00:41:30.7
eS 45.5	e(S) 44.6	i 49.4
e(P) 15:26:11.2	iP 22:38:24.2	iS 53.8
eS 42.9	eS 39:11.5	Dist. 210 Km.
eP 18:44:17.5	Dilatation from E	(*) eP 03:31:05.0
i 46.5		eS 20.1
iS 45:11.4		Dist. 130 Km.
Dist. 530 Km.		
iP 21:55:58.2	19 iP 00:34:56.2	iP 07:51:09.6
iS 56:13.7	iS 35:13.3	i(S) 27
Dist. 130 Km.	Dilatation	Compression from SW
Dilatation	Dist. 271 Km.	Dist. about 160 Km.
18 iPKP 01:33:37.3	iP 02:24:52.1	iP 08:31:31.0
i 47.6	iS 25:33.1	iS 32:09.2
Compression	Compression from SE	Dilatation
iP 02:29:45.7	Dist. 310 Km.	Dist. 380 Km.
iS 30:24.4		
Dist. 380 Km.		
Compression		
eP 02:42:30.2	iP 14:27:29.1	iP 12:03:55.1
eS 43:10.5	iS 53.8	iS 04:33.9
Dist. 400 Km.	Compression	Dilatation from NE
	Dist. 340 Km.	Dist. 380 Km.
eP 07:39:40.8	eP 15:24:43.8	iPKP 15:29:03.5
iS 40:05.3	i 25:53.2	i 27.1
Dist. 120 Km.	iS 26:18.2	Dilatation from SE
	Dist. 840 Km.	eP 20:51:20.9
eP 07:41:37.5		iS 52:06.6
iS 44:43.9		Dist. 350 Km.
Dist. 660 Km.		
eP 09:21:37.8	e(P) 16:19:14.7	eP 21:50:56.7
i 22:15.7	i 54.6	iS 51:21.3
iS 22.2	iS 59.2	Dist. 230 Km.
Dist. 440 Km.	eP 17:21:15.4	
iP 11:48:45.0	iP 17:31:48.9	21 iP 01:02:00.6
iS 49:06.5	iS 32:27.5	iS 28.7
Compression	Dilatation	Compression
Dist. 310 Km.	Dist. 390 Km.	Dist. 260 Km.
eP 12:19:28.6	eP 18:16:21.2	iP 01:44:36.5
iS 21:21.4	iS 38.9	iS 45:14.5
Dist. 10°	Dist. 160 Km.	Compression
		Dist. 380 Km.
eP 15:18:06.2	eP 19:44:15.8	iP 02:40:27.1
iS 25.1	iS 41.6	iS 37.2
Dist. 170 Km.	Dist. 250 Km.	Compression from NE
		Dist. 90 Km.
eP 16:47:08.9	e(P) 21:24:03.9	22 eP 00:46:32.3
e(S) 51.1	iS 25:07.2	iS 47.7
		Dist. 130 Km.
		(*) 20 eP 03:07:47.5
		iS 08:50.1
		Dist. 620 Km.



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PROVISIONAL READINGS AT ANTOFAGASTA

Oct. 22 1969	iP iS Dist. 350 Km. Compression	04:09:01.5 36.8	Oct. 24 1969	iP iS Dist. 470 Km. Dilatation	06:32:21.5 33:09.0	Oct. 25 1969	eP iS Dist. 190 Km.	15:36:48.3 37:09.2
	iP iS Dist. 160 Km. Compression	06:51:53.7 52:12.0		eP eS Dist. 140 Km.	18:19:40.8 20:06.6		iP iS Dist. 160 Km. Dilatation	20:48:19.0 37.2
	iP iS LR Dist. 6° Dilatation from SSE	10:23:11.4 24:21.6 25:25.6		eP i iS Dist. 500 Km.	19:47:43.6 48:16.7 33.8	26	eP iS Dist. 390 Km.	01:16:18.7 58.2
	eP iS Dist. 80 Km.	15:57:12.7 21.9		eP iS Dist. 90 Km.	20:00:49.4 01:16.2 20:12:14.7 25.3		iP iS Dist. 370 Km. Dilatation	03:26:36.8 27:13.8
	iP iS Dist. 400 Km. Compression	17:05:12.8 53.5		eP iS Dist. 40 Km.	22:14:01.7 06.7		iP i iS Dist. 111 Km. Compression	08:37:41.5 50.1 55.2
	iP iS Dist. 180 Km. Dilatation from ENE	20:29:38.1 57.9	25	iP iS Dist. 400 Km. Dilatation	01:06:39.0 07:19.3		eP i iS Dist. 990 Km.	08:58:56.2 09:00:23.0 35.5
	iPKP Dilatation	23:03:20.3		eP PP S ScS Dist. 49°	04:13:40.5 15:46 20:10 23:06		eP iS Dist. 180 Km.	15:36:18.4 38.2
	iP iS Dist. 60 Km. Compression from N	23:41:20.7 27.8		e(P) iS	05:55:53.0 56:06.6		eP ePKP	17:02:08.9 21:50:55.1
23	eP i iS Dist. 230 Km.	01:13:16.7 24.1 42.0		eP i iS Dist. 590 Km.	07:00:50.0 01:36.1 49.2		eP iS Dist. 380 Km.	22:56:15.4 53.8
	eP eS Dist. 300 Km.	04:34:35.2 35:16.1		eP iS Dist. 360 Km.	08:23:09.6 45.6	27	eP iS Dist. 390 Km.	00:29:30.0 30:09.2
	eP eS Dist. 160 Km.	18:48:14.9 32.6		iP e(S)	08:43:15.2 53.9		eP iS Dist. 390 Km.	03:16:40.4 17:19.5
	eP eS Dist. 150 Km.	17:03:47.6 04:04.4		iP iS Dist. 410 Km. Compression from SW	09:41:40.2 42:21.9		eP iS Dist. 240 Km.	10:24:49.0 25:15.6
24	iP iS Dist. 390 Km. Dilatation	03:33:06.3 45.7		eP iS Dist. 100 Km.	14:40:06.4 18.6		eP iS Dist. 390 Km.	12:40:53.9 41:32.8
							eP eS Dist. 60 Km.	19:27:23.3 29.8

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PROVISIONAL READINGS AT ANTOFAGASTA

Oct. 27 1969 iP 20:27:19.3
iS 28:08.0
Dist. 480 Km.
Dilatation from E

28 eP 01:56:09.8
e(S) 51.1

eP 05:44:42.8
iS 45:07.4
Dist. 220 Km.

eP 10:56:14.7
eS 24.2
Dist. 80 Km.

eP 14:05:08.2
iS 31.3
Dist. 210 Km.

eP 21:54:00.4
eS 13.6
Dist. 110 Km.

eP 22:13:52.2
eS 14:20.3
Dist. 260 Km.

eP 22:43:41.8
iS 55.0
Dist. 110 Km.

eP 22:48:00.8
e(S) 21.1

iP 22:51:54.1
iS 52:19.0
Dist. 230 Km.
Compression

iP 23:43:06.0
iS 19.6
Dist. 110 Km.
Dilatation

29 iP 03:11:19.5
iS 12:31.5
Dist. 720 Km.
Dilatation from N

eP 04:26:49.7
iS 27:18.7
Dist. 270 Km.

iP 11:20:14.6
i 18.1
iS 22.2
i 35.8
Dist. 70 Km.
Dilatation

Oct. 29 1969 iP 15:15:07.2
iS 49.6
Compression from SE
Dist. 420 Km.

e(P) 16:11:53.3
eS 12:33.5

PcP 16:27:49.4
eS 30:26
Q 32.2
R 33.7

eP 17:32:11.7
i 31.2
iS 35.7
Dist. 220 Km.

eP 19:09:06.8
iS 42.8
Dist. 360 Km.

iP 22:13:31.3
Compression

iPKP 00:25:15.8
Dilatation

30 e(P) 00:41:04.6
eS 47.3

eP 02:49:17.1
i 33.6
iS 50:58.5
Dist. 9°

eP 18:28:08.2
i 13.1
iS 29:00.9
Dist. 520 Km.

eP 20:34:58.3
iS 35:06.3
Dist. 70 Km.

eP 22:34:17.1
iS 39.3
Dist. 200 Km.

eP 22:58:03.6
eS 46.1
Dist. 420 Km.

eP 22:59:32.7
iS 53.7
Dist. 190 Km.

31 eP 04:15:34.8
i 58.0
iS 16:07.1
Dist. 320 Km.

Oct. 31 1969 eP 07:42:27.6
eS 55.8
Dist. 260 Km.

eP 08:17:44.5
i 18:08.6
iS 11.7
Dist. 250 Km.

eP 09:00:52.7
eS 01:16.6
Dist. 220 Km.

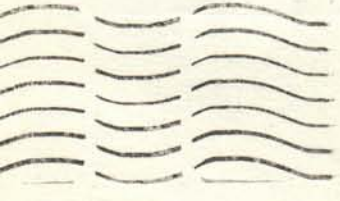
eP 10:29:13.0
i 54.3
iS 30:18.2
Dist. 650 Km.

eP 10:36:33.4
eS 51.1
Dist. 160 Km.

iP 11:22:12.0
iS 34.4
Dist. 200 Km.
Compression from N

eP 20:40:25.3
eS 41:03.8
Dist. 380 Km.

L. Vallejos
Seismologist



INTERNATIONAL SEISMOLOGICAL SUMMARY
KEW OBSERVATORY
RICHMOND SURREY ENGLAND

IMPRESO ORDINARIO

6, South Oswald Road,
Edinburgh 9,
SCOTLAND



23. MAR 1970

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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

Nov.01 iP 07:59:38.7 1969 eS 08:00:17 Dist. 365 Km. Compression	Nov.03 eP 19:16:26.5 1969 eS 34.5 Dist. 60 Km. Small	Nov.06 iP 15:29:47.8 1969 eS 30:03.5 Compression Dist. 135 Km.
iP 09:08:06.5 iS 27.5 Dist. 190 Km. Compression from NE	eP 20:14:13.5 Distant shock	eP 16:23:00 e 55.5
eP 11:19:07 Distant shock	04 eP 05:17:57 e 18:13 Distant shock	eP 18:59:46 eS 19:00:03.5 Dist. 155 Km.
02 eP 08:08:06 eS 36.5 Dist. 285 Km.	iP 06:30:49 eS 31:05 Dist. 140 Km.	eP 19:01:49.2 eS 02:06.5 Dist. 155 Km. Compression
eP 09:50:23.3 eS 51:16 Dist. 505 Km.	05 iP 21:20:16.6 eS 39 Dist. 105 Km.	eP 19:03:09.5 eS 27.5 Dist. 160 Km.
eP 12:42:55.8 eS 43:24.5 Dist. 265 Km.	eP 23:12:27 eS 46.5 Dist. 175 Km.	iP 21:02:41.6 eS 56 Dist. 125 Km. Dilatation from NW
eP 20:05:48 eS 06:30 Dist. 400 Km.	eP 23:46:35.5 eS 47:21.5 Dist. 440 Km.	07 eP 02:04:27 eS 05:06 Dist. 370 Km.
eP 20:22:33 eS 23:03 Dist. 280 Km.	06 eP 01:06:17 e 47.7	eP 04:00:44.5 i 46 e(S) 02:34.5
eP 21:39:24.5 eS 42 Dist. 155 Km. Small	eP 03:31:14.5 eS 47 Dist. 305 Km.	ePKP 18:53:22.5 ePP 56:06 e 19:05:50 ePPS 08:17 eSS 14:08 eSSS 19:29 e 27:05 eG 30:03 eR 37:31 Dist. 140° Mag 6.8
03 eP 04:41:32 eS 44.5 Dist. 105 Km. Small	eP 04:39:04.5 eS 24 Dist. 175 Km.	eP 20:47:58.5 eS 48:32 Dist. 315 Km.
eP 08:29:00 eS 17 Dist. 150 Km. Small	eP 10:42:25 eS 36 Dist. 90 Km.	08 eP 03:16:19.5 eS 48.5 Dist. 270 Km.
iP 14:46:15.6 eS 42.8 Dist. 250 Km. Compression	eP 11:31:06.5 eS 35.5 Dist. 270 Km.	eP 12:06:16 eS 34.7 Dist. 165 Km.
iP 16:31:50 eS 32:05.5 Dist. 135 Km. Dilatation	iP 13:45:14.5 iS 28 Compression from SW Dist. 115 Km.	
	eP 13:51:39 eS 55 Dist. 140 Km.	

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PROVISIONAL READINGS AT PELDEHUE

Nov.08 1969	eP 12:23:24 eS 44 Dist. 180 Km.	Nov.10 1969	iP 03:56:14 eS 33 Dist. 170 Km.	Nov.12 1969	eP 23:06:21 iS 07:04 Dist. 410 Km.
	eP 13:14:17.5 eS 36.5 Dist. 170 Km.		eP 04:54:03 eS 55:17 Dist. 720 Km.	13	iP 02:05:25.5 eS 39 Dist. 105 Km. Compression
	eP 17:27:50.7 eS 28:06.8 Dist. 140 Km. Small		iP 11:56:48.7 eS 58:04 Dist. 735 Km. Compression		iP 07:52:47.8 iS 53:51 Dist. 610 Km. Compression from NW
	eP 17:43:17 eS 42.5 Dist. 235 Km.		eP 20:12:06.8 iS 15 Dist. 60 Km.		eP 08:57:34 eS 48.5 Dist. 125 Km.
	iP 17:46:14.7 eS 42 Dist. 255 Km. Small Dilatation	11	iP 06:40:25.0 iS 39 Dist. 120 Km. Dilatation from NW		eP 09:55:11.5 eS 43 Dist. 295 Km.
09	eP 00:04:39.5 eS 05:18 Dist. 365 Km.		eP 06:57:26 eS 59:06.5 Dist. 990 Km.		eP 09:59:31.5 eP 11:16:15 eS 31 Dist. 140 Km.
	iP 05:44:13.5 eS 34.5 Dist. 190 Km. Dilatation		iP 12:15:21.5 iS 16:06 Dist. 425 Km. Compression from N		eP 12:11:02.5 eS 32.5 Dist. 280 Km.
	eP 10:57:42 eS 58:21 Dist. 370 Km.		eP 18:13:33.5 e 15:02.5 iP 19:53:29 eS 54:36 Dist. 650 Km. Compression from NW	14	eP 13:32:17 eS 33:12.5 Dist. 535 Km.
	eP 14:43:01 eS 12 Dist. 90 Km. Small		e(P) 23:46:24 eS 47:06		eP 22:23:17.3 eS 26.5 Dist. 70 Km.
	eP 15:38:45.7 eS 39:07 Dist. 195 Km. Small	12	eP 00:30:14.5 eS 29 Dist. 125 Km.	15	eP 02:31:42 eS 32:03.5 Dist. 195 Km.
	eP 16:37:36.5 eS 38:01.5 Dist. 230 Km. Small		eP 08:30:34.5 eS 44 Dist. 75 Km.		iP 08:33:42 eS 34:01.5 Dist. 175 Km. Compression
	iP 17:05:30.5 eS 58.5 Dist. 260 Km. Compression		eP 09:58:39 iS 59:16.7 Dist. 345 Km.		eP 08:54:21 eS 45 Dist. 220 Km.
10	iP 03:47:59.5 eS 48:21.3 Dist. 200 Km.		iP 12:49:32.5 Distant shock Dilatation		eS 17:23:10.5 eS 25.5 Dist. 130 Km.
			eP 13:46:54 eS 47:02.3 Dist. 65 Km.		eP 18:01:54.5 Distant shock eP 19:17:08.5 eS 37.5 Dist. 270 Km.
			H. Becker Seismologist		eP 23:26:11 eS 34 Dist. 210 Km.

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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

Nov. 01 1969	iP 07:59:38.7 eS 08:00:17 Dist. 365 Km. Compression	Nov. 03 1969	eP 19:16:26.5 eS 34.5 Dist. 60 Km. Small	Nov. 06 1969	iP 15:29:47.8 eS 30:03.5 Compression Dist. 135 Km.
	iP 09:08:06.5 iS 27.5 Dist. 190 Km. Compression from NE		eP 20:14:13.5 Distant shock		eP 16:23:00 e 55.5
	eP 11:19:07 Distant shock	04	eP 05:17:57 e 18:13 Distant shock		eP 18:59:46 eS 19:00:03.5 Dist. 155 Km.
02	eP 08:08:06 eS 36.5 Dist. 285 Km.		iP 06:30:49 eS 31:05 Dist. 140 Km.		eP 19:01:49.2 eS 02:06.5 Dist. 155 Km. Compression
	eP 09:50:23.3 eS 51:16 Dist. 505 Km.	05	iP 21:20:16.6 eS 39 Dist. 105 Km.		eP 19:03:09.5 eS 27.5 Dist. 160 Km.
	eP 12:42:55.8 eS 43:24.5 Dist. 265 Km.		eP 23:12:27 eS 46.5 Dist. 175 Km.		iP 21:02:41.6 eS 56 Dist. 125 Km. Dilatation from NW
	eP 20:05:48 eS 06:30 Dist. 400 Km.		eP 23:46:35.5 eS 47:21.5 Dist. 440 Km.	07	eP 02:04:27 eS 05:06 Dist. 370 Km.
	eP 20:22:33 eS 23:03 Dist. 280 Km.	06	eP 01:06:17 e 47.7		eP 04:00:44.5 i 46 e(S) 02:34.5
	eP 21:39:24.5 eS 42 Dist. 155 Km. Small		eP 03:31:14.5 eS 47 Dist. 305 Km.		ePKP 18:53:22.5 ePP 56:06 e 19:05:50 ePPS 08:17 eSS 14:08 eSSS 19:29 e 27:05 eG 30:03 eR 37:31 Dist. 140° Mag 6.8
03	eP 04:41:32 eS 44.5 Dist. 105 Km. Small		eP 04:39:04.5 eS 24 Dist. 175 Km.		eP 20:47:58.5 eS 48:32 Dist. 315 Km.
	eP 08:29:00 eS 17 Dist. 150 Km. Small		eP 10:42:25 eS 36 Dist. 90 Km.	08	eP 03:16:19.5 eS 48.5 Dist. 270 Km.
	iP 14:46:15.6 eS 42.8 Dist. 250 Km. Compression		eP 11:31:06.5 eS 35.5 Dist. 270 Km.		eP 12:06:16 eS 34.7 Dist. 165 Km.
	iP 16:31:50 eS 32:05.5 Dist. 135 Km. Dilatation		iP 13:45:14.5 iS 28 Compression from SW Dist. 115 Km.		
			eP 13:51:39 eS 55 Dist. 140 Km.		

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PROVISIONAL READINGS AT PELDEHUE

Nov.08 eP 12:23:24	Nov.10 iP 03:56:14	Nov.12 eP 23:06:21
1969 eS 44	1969 eS 33	1969 iS 07:04
Dist. 180 Km.	Dist. 170 Km.	Dist. 410 Km.
eP 13:14:17.5	eP 04:54:03	13 iP 02:05:25.5
eS 36.5	eS 55:17	eS 39
Dist. 170 Km.	Dist. 720 Km.	Dist. 105 Km.
eP 17:27:50.7	iP 11:56:48.7	Compression
eS 28:06.8	eS 58:04	iP 07:52:47.8
Dist. 140 Km.	Dist. 735 Km.	iS 53:51
Small	Compression	Dist. 610 Km.
eP 17:43:17	eP 20:12:06.8	Compression from NW
eS 42.5	iS 15	eP 08:57:34
Dist. 235 Km.	Dist. 50 Km.	eS 48.5
iP 17:46:14.7	11 iP 06:40:25.0	Dist. 125 Km.
eS 42	iS 39	eP 09:55:11.5
Dist. 255 Km.	Dist. 120 Km.	eS 43
Small	Dilatation from NW	Dist. 295 Km.
Dilatation	eP 06:57:26	eP 09:59:31.5
09 eP 00:04:39.5	eS 59:06.5	eP 11:16:15
eS 05:18	Dist. 990 Km.	eS 31
Dist. 365 Km.	iP 12:15:21.5	Dist. 140 Km.
iP 05:44:13.5	iS 16:06	eP 12:11:02.5
eS 34.5	Dist. 425 Km.	eS 32.5
Dist. 190 Km.	Compression from N	Dist. 280 Km.
Dilatation	eP 18:13:33.5	eP 13:32:17
eP 10:57:42	e 15:02.5	eS 33:12.5
eS 58:21	iP 19:53:29	Dist. 535 Km.
Dist. 370 Km.	eS 54:36	14 eP 22:23:17.3
eP 14:43:01	Dist. 650 Km.	eS 26.5
eS 12	Compression from NW	Dist. 70 Km.
Dist. 90 Km.	e(P) 23:46:24	15 eP 02:31:42
Small	eS 47:06	eS 32:03.5
eP 15:38:45.7	12 eP 00:30:14.5	Dist. 195 Km.
eS 39:07	eS 29	iP 08:33:42
Dist. 195 Km.	Dist. 125 Km.	eS 34:01.5
Small	eP 08:30:34.5	Dist. 175 Km.
eP 16:37:36.5	eS 44	Compression
eS 38:01.5	Dist. 75 Km.	eP 08:54:21
Dist. 230 Km.	eP 09:58:39	eS 45
Small	iS 59:16.7	Dist. 220 Km.
iP 17:05:30.5	Dist. 345 Km.	eS 17:23:10.5
eS 58.5	iP 12:49:32.5	eS 25.5
Dist. 260 Km.	Distant shock	Dist. 130 Km.
Compression	Dilatation	eP 18:01:54.5
10 iP 03:47:59.5	eP 13:46:54	Distant shock
eS 48:21.3	eS 47:02.3	eP 19:17:08.5
Dist. 200 Km.	Dist. 65 Km.	eS 37.5
H. Becker		Dist. 270 Km.
Seismologist		eP 23:26:11
		eS 34
		Dist. 210 Km.

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PROVISIONAL READINGS AT ANTOFAGASTA

Nov. 06 1969	iP 06:29:18.1 e(S) 58.1 Dilatation	Nov. 07 1969	e(P) 09:34:36.6 eS 35:09.2	Nov. 08 1969	iP 19:39:57.7 iS 40:08.8 Dist. 90 Km. Dilatation
	eP 08:29:48.4 i 54.9 iS 30:17.2 Dist. 230 Km.		iP 13:52:41.5 iS 53:19.6 Dist. 270 Km. Compression from ESE		iPKP 22:15:01.7 Dilatation
	iP 10:12:58.0 iS 13:38.2 Dist. 310 Km. Compression from NE		eP 14:41:14.4 iS 43.6 Dist. 210 Km.		ePKP 23:45:50.2
	e(P) 16:22:01.7 i 54.2 iS 23:05.7		eP 16:04:32.7 iS 51.6 i 05:01.6 Dist. 160 Km.	09	e(P) 02:20:08.8 eS 58.8
	iP 19:00:00.5 iS 05.1 Dist. 40 Km. Dilatation		iPKP 18:53:19.2 e(PKS) 56:47 ePPP 59:24 SKKS 19:02:38 SKSP 06:26 PPS 07:54 iSS 13:51 iSSS 18:16 LQ 28.7 LR 34.9 Dist. 135° Dilatation		iP 02:26:44.7 iS 27:42.7 Dist. 50 Km. Dilatation
	eP 19:48:42.4 iS 49:00.6 Dist. 160 Km. eP 20:36:41.0 iS 37:29.4 Dist. 350 Km.		eP 20:56:54.2 eS 57:08.2 Dist. 110 Km.		iP 03:32:57.1 iS 33:15.4 Dist. 150 Km. Dilatation from NW
	eP 21:04:47.3 eS 06:27.9 Dist. 9°		eP 21:07:44.7 iS 50.2 dist. 40 Km.		iP 04:41:01.9 eS 41.0 Dist. 290 Km. Dilatation
	eP 22:30:03.3 iS 20.9 Dist. 140 Km.		eP 22:46:22.8 iS 59.3 Dist. 210 Km.		eP 06:14:04.2 iS 17.3 Dist. 110 Km.
	e(P) 22:43:03.5 iS 09.7	08	eP 02:55:37.1 eS 56:11.2 Dist. 260 Km.		eP 07:54:28.5 e(S) 57.1
07	iP 03:59:23.4 iS 04:00:02.6 Dist. 300 Km. Compression from SE		iP 05:28:50.2 iS 54.7 Dist. 40 Km. Compression		iP 09:59:07.7 iS 46.1 Dist. 390 Km. Dilatation from SE
	iP 04:12:29.7 iS 13:10.8 Dist. 310 Km. Compression from SE		eP 06:49:21.1 iS 45.4 Dist. 190 Km.	10	eP 04:54:43.1 e(S) 55:58.5
	e(P) 06:49:08 i 42.6 iS 50:20.9		eP 09:20:06.6 eS 42.2 Dist. 280 Km.		iP 06:35:17.0 iS 23.3 Dist. 40 Km. Compression
	e(P) 09:25:44.6 iS 26:45.4				eP 10:04:15.2 iS 38.7 Dist. 30 Km.
					eP 12:04:04.4 e(S) 25.5
					eP 12:24:54.2 i 25:42.5 iS 58.7 Dist. 490 Km.

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PROVISIONAL READINGS AT ANTOFAGASTA

Nov.10 eP 14:59:10.6	Dec.11 iP 08:39:34.2	Dec.12 eP 03:20:46.0
1969 iS 47.2	1969 iS 50.4	1969 iS 21:18.4
Dist. 345 Km.	Dist. 140 Km.	Dist. 250 Km.
iP 15:11:30.7	Dilatation	eP 04:09:31.0
iS 35.7	eP 09:00:24.0	e(S) 10:06.9
Dist. 40 Km.	i 24.7	iPKP 12:49:20.4
iP 16:55:35.4	iS 47.6	Dilatation
iS 59.3	Dist. 190 Km.	eP 14:01:01.3
Dist. 120 Km.	e(P) 10:02:14.6	iS 34.6
Compression from S	eS 18.5	Dist. 250 Km.
eP 19:31:55.5	eP 10:57:03.0	eP 21:17:00.3
eS 32:01.8	iS 58:39.2	i 02.1
Dist. 40 Km.	Dist. 8°	iS 23.7
eP 19:55:45.4	iP 11:50:11.4	i 45.0
iS 56:47.9	iS 51.7	Dist. 170 Km.
Dist. 510 Km.	Dist. 290 Km.	eP 23:07:13.1
	Compression	iS 08:35.2
11 iP 00:28:13.0	eP 12:15:51.1	Dist. 7°
eP ^N 18.4	iS 16:58.6	e(P) 23:52:01.3
iP 21.1	Dist. 570 Km.	i 54.9
iS ^g 35.4	eP 13:22:48.6	iS 53:31.0
i ^N 40.5	i 23:00.3	
iS 45.1	i 16.1	13 eP 02:53:25.2
Dist. 360 Km.	iS 23.0	eS 52.3
Dilatation from NE	Dist. 260 Km.	Dist. 210 Km.
eP 06:42:31.8	eP 14:44:20.9	iP 04:04:10.9
iS 44:29.6	iS 46.1	iS 45.5
Dist. 10°	Dist. 210 Km.	Dist. 270 Km.
iP 06:55:54.2	eP 17:49:45.7	Compression from SE
iS 56:09.9	iS 50:00.8	iP 07:52:30.6
LR 10.4	Dist. 130 Km.	iS 53:18.0
Dist. 120 Km.	iP 17:53:22.5	iLR 56.4
Compression from SW	i 25.4	Dist. 320 Km.
eP 07:44:09.1	iS 54:15.5	Compression from SSW
iS 26.4	Dist. 410 Km.	iP ^N 11:21:52.1
Dist. 140 Km.	Dilatation	iP ^N 56.6
iP 07:47:51.2	iP 18:13:09.5	iP 22:01.4
iS 48:07.7	iS 53.5	iS ^g 20.6
Dist. 130 Km.	Dist. 330 Km.	iS ^N 35.0
Compression	Dilatation	eS 45.7
eP 08:09:52.1	eP 19:46:03.4	Dist. 320 Km.
iS 10:11.0	iS 29.1	Compression from SSW
Dist. 70 Km.	Dist. 190 Km.	eP 11:50:30.2
eP 08:12:33.8	eP 20:15:15.0	iS 48.0
e(S) 40.6	iS 16:03.4	Dist. 140 Km.
eP 08:30:55.7	Dist. 360 Km.	eP 20:25:35.8
iS 31:12.6		iS 25:21.2
Dist. 150 Km.		Dist. 340 Km.

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PROVISIONAL READINGS AT ANTOFAGASTA

Dec.13 iP 22:14:16.9
1969 iS 15:03.3
Dist. 350 Km.

14 eP 03:00:20.3
iS 52.3
Dist. 250 Km.

eP 06:48:01.0
eS 37.2
Dist. 290 Km.

iPKP 06:58:03.1
Dilatation

eP 10:02:32.6
iS 54.2
Dist. 190 Km.

eP 10:52:05.4
iS 20.0
Dist. 120 Km.

iP 11:47:35.7
iS 48:08.6
Dist. 280 Km.
Compression from SW

e(P) 17:47:28.4
eS 48:01.7

eP 19:32:39.6
iS 45.9
Dist. 50 Km.

15 eP 00:51:49.1
iS 52:20.2
Dist. 290 Km.

eP 06:44:44.0
iS 53.1
Dist. 70 Km.

eP 06:55:34.3
iS 56:13.7
Dist. 380 Km.

eP 08:58:20.4
iS 34.1
Dist. 110 Km.

Dec.15 e(P) 12:02:24.2
1969 iS 43.6

iP 17:59:41.6
i 48.4
i 54.1
i 04.2
iS 18:00:29.8
i 46.3

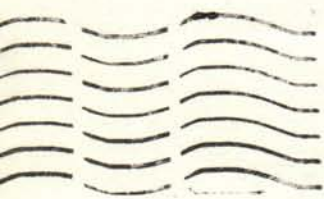
Dist. 4°
dilatation

eP 21:50:23.5
e(S) 51:33.7

eP 23:27:04.5
iS 28:27.6
Dist. 580 Km.

L. Vallejos
Seismologist

ANTOFAGASTA
CHILE
SERVICIO NACIONAL DE GEODESIA Y GEOFISICA



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SUMMARY~~ *Centre*
~~KEW OBSERVATORY~~
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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

Dec.01 iP 05:11:25 1969 iS 12:13 Dist. 460 Km.	Dec.03 iP 11:34:57.5 1969 iS 35:12.5 Dist. 130 Km.	Dec.12 eP 08:10:48.5 1969 eS 11:00 Dist. 95 Km.
eP 14:18:20.5 eL 26:40 Distant shock	No records from Dec. 03 to Dec.07. No electric power.	iP 09:09:58 eS 10:13.5 Dist. 135 Km. Compression from NW
eP 19:53:59.5 eS 54:51 Dist. 495 Km.	07 eP 22:41:26 eS 49.5 Dist. 215 Km.	eP 17:44:23 eS 45:03 Dist. 380 Km.
eP 20:33:49.5 eS 34:10 Dist. 185 Km.	08 eP 22:06:07.5 Distant shock	eP 19:17:55.5 eS 18:33.5 Dist. 360 Km.
iP 20:42:12.5 Distant shock Dilatation from SE	10 iP 17:40:20 Distant shock Dilatation	eP 23:14:47 eS 15:17.5 Dist. 285 Km.
eP 22:22:48.5 eL 43:00 Distant shock	11 iP 02:53:14.3 eS 31 Dist. 145 Km. Compression	13 iP 04:23:28.5 Distant shock Compression
02 eP 03:15:47 eS 16:08.5 Dist. 195 Km.	eP 06:51:19 i 21.5 eS 52 Dist. 310 Km.	iP 11:55:32.5 eS 45.5 Dist. 110 Km.
eP 03:44:40 eS 45:07.5 Dist. 255 Km.	iP 15:44:33.5 eS 44:53 Dist. 175 Km. Dilatation	iP 21:33:39 iS 50 Dist. 90 Km. Compression from NW
eP 05:18:35.5 eS 56.5 Dist. 190 Km.	eP 16:59:13.5 e 17:02:24 Distant shock	14 iP 03:01:43.5 Distant shock
eP 13:47:06 eS 48:05 Dist. 570 Km.	eP 18:01:08.5 eS 25 Dist. 145 Km.	iP 04:25:56.5 eS 26;20 Dist. 115 Km. Compression
eP 15:48:12 e 50:05.5 Distant shock	12 eP 01:00:03 eS 15.5 Dist. 105 Km.	eP 07:13:02 eS 11.5 Dist. 75 Km.
eP 18:16:41	iP 01:12:01 eS 28 Dist. 240 Km. Dilatation	
eP 23:05:41 eS 06:15.5 Dist. 325 Km.	iP 05:59:53.5 eS 06:00:15.2 Dist. 200 Km. Dilatation	
03 eP 02:31:26 eS 41.5 Dist. 135 Km.		

H. Becker
Seismologist

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PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

Dec.01 eP 05:11:21.0	Dec.04 eP 09:10:13.9	Dec.12 eP 01:12:00.2
1969	1969	1969
iP 20:42:10.5	iP 11:33:19.4	eP 05:59:49.7
	iS 34.5	e 06:00:09.9
02 eP 03:15:49.6	Dist. 130 Km.	iP 09:10:01.9
eP 05:18:39.2	05 eP 06:13:50.5	iS 19.6
eP 18:16:38.8	eP 15:59:45.4	Dist. 155 Km.
e 46.5	06 eP 00:43:35.5	13 iP 21:33:40.5
	08 eP 05:23:43.2	Dilatation
03 iP 11:34:55.7	eP 22:15:19.2	14 eP 03:01:42.2
iS 35:09.0		Distant shock
Dist. 115 Km.	11 eP 02:53:17.7	iP 04:25:50.9
iP 21:35:22.6	eS 35.5	i 26:09.6
iS 37.6	Dist. 160 Km.	
Compression	eP 06:51:22.6	
dist. 130 Km.	eP 15:44:29.6	
04 eP 07:02:34.6		

J. Salas
Seismologist

PROVISIONAL READINGS AT CONCEPCION

36° 49' 41" S 73° 02' 42" W h 46 m

Dec.01 eP 05:10:46	Dec.02 eP 13:46:26.5	
1969 eS 57	1969 Dilatation	A. Sickinger
Dist. 90 Km. ✓	Felt I at Concepción ✓	Seismologist
Dilatation		
Felt II at Concepción		

PROVISIONAL READINGS AT VALDIVIA

39° 47' 24" S 73° 16' 00" W h 12 m

Dec.01 e(P) 05:11:45	Dec.02 iP 13:46:18	
1969 eS 12:28	1969 iS 40.5	
	Dist. 190 Km.	R. Schulz
	Felt III-IV at Valdivia ✓	Seismologist

PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

Dec.01 e(P) 01:20:28.1	Dec.01 iP 12:06:16.8	Dec.02 eP 02:21:46.7
1969 iS 21:05.2	1969 iS 57.0	1969 i 5.2
	Dist. 310 Km.	iS 22:11.8
eP 05:23:50.6	Compression from NE	Dist. 130 Km.
iS 58.2		
Local	eP 19:37:48.0	e(P) 03:31:52.7
	iS 38:11.4	eS 32:16.2
e(P) 06:12:12.3	Dist. 200 Km.	
eS 46.8	iPKP 20:43:17.1	eP 04:09:04.5
	Dilatation	eS 35.7
		Dist. 290 Km.

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PROVISIONAL READINGS AT ANTOFAGASTA

Dec.02 iP 07:01:09.4 1969 iS 29.6 Dist. 180 Km. Dilatation from S	Dec.04 iPKP 09:10:02.1 1969 iP 09:34:11.0 iS 50.4 Dist. 290 Km. Compression from ESE	Dec.06 iP 19:11:52.4 1969 iS 12:29.3 Dist. 270 Km. Compression from ESE
eP 14:00:31.9 iS 01:05.0 Dist. 250 Km.	eP 14:53:23.1 eS 54:00.5 Dist. 280 Km.	iP 19:33:14.2 eS 34:03.1 Dist. 450 Km. Compression
iP 15:46:51.2 i 55.3 iS 47:11.6 i 19.0 Dist. 370 Km. Compression from N	eP 19:00:21.1 iS 56.8 Dist. 260 Km.	iP 23:09:52.1 i 55.0 iS 10:13.1 i 16.5 Compression from N Dist. 190 Km.
iP 16:17:11.8 iS 19.6 Dilatation from WNW Local	eP 23:42:49.2 iS 44:12.3 Dist. 7°	07 e(P) 01:43:53.6 i 44:13.8 i(S) 42.7
iP 17:40:19.0 iS 59.6 Dist. 370 Km. Compression from ESE	eP 23:54:41.3 iS 56:10.7 Dist. 8°	iP 03:19:41.9 iS 20:30.4 Dist. 360 Km. Compression from SW
iP 18:05:27.2 iS 54.9 Dist. 230 Km. Dilatation from NE	05 eP 10:24:23.6 iS 25:17.4 Dist. 490 Km.	eP 03:28:53.1 eS 29:32.5 Dist. 300 Km.
iPKP 18:16:51.8	eP 13:59:22.9 i 29.2 iS 32.8 Local	e(P) 04:47:41.5 eS 48:27.5
03 eP 15:32:06.3 eS 51.3 Dist. 410 Km.	iP 18:05:10.7 i 30.5 iS 35.1 Dist. 200 Km. Compression	e(P) 05:37:22.5 eS 42.0
eP 17:56:47.8 iS 57:28.7 Dist. 320 Km.	06 e(P) 02:42:22.4 iS 43:14.7	iP 10:53:31.1 iS 40.8 Compression from ESE Local
eP 18:06:22.7 eS 28.8 Local	eP 08:16:22.0 eS 57.6 Dist. 260 Km.,	iP 16:12:34 iS 13:06.0 Dist. 290 Km. Dilatation from NE
04 eP 00:32:54.6 iS 33:30.7 Dist. 300 Km.	eP 12:50:15.1 i 21.0 i 47.0 iS 56.2 i 51:07.9 Dist. 370 Km.	08 iP 05:24:06.6
eP 02:56:49.7 iS 57:26.5 Dist. 310 Km.	iP 18:34:42.6 iS 50.2 Dilatation Local	iP 08:50:15.1 iS 51:03.1 Dist. 350 Km. Compression
e(P) 05:21:37.1 iS 22:16.1		iP 13:15:10.6 iS 46.8 Dist. 290 Km. Compression
eP 07:07:37.6 eS 55.2 Dist. 140 Km.		

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PROVISIONAL READINGS AT ANTOFAGASTA

Dec.08 eP 15:03:18.7
1969 iS 36.7
Dist. 150 Km.

iP 17:22:09.0
iS 47.6
Dist. 300 Km.
Dilatation from ENE

e(P) 18:16:54.3
iS 18:01.9

eP 19:06:41.4
i 44.7
iS 07:04.8
Dist. 190 Km.

eP 22:15:54.4
i 17:14.4
iS 28.6
Dist. 9°

Dec.08 eP 23:18:08.2
1969 eS 44.8
Dist. 280 Km.

09 eP 00:32:37.8
iS 33:18.8
Dist. 320 Km.

eP 01:33:30.1
iS 58.7
Dist. 230 Km.

e(P) 12:36:17.5
eS 48.7

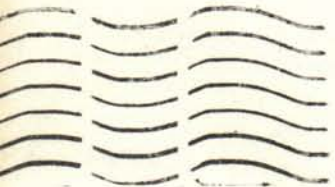
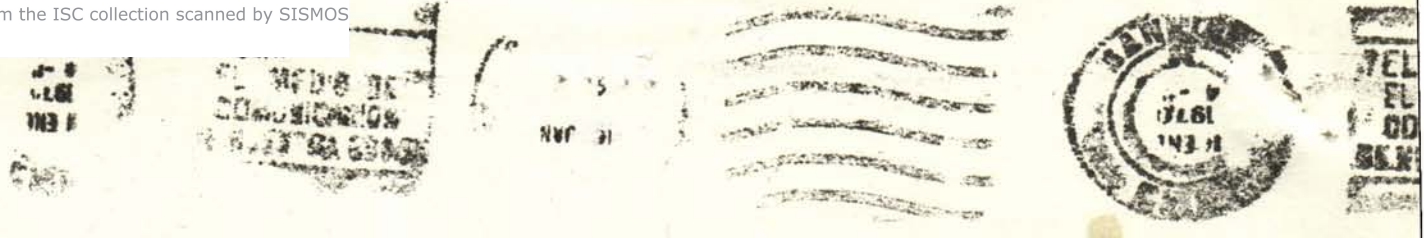
eP 13:05:19.6
iS 36.6
Dist. 140 Km.

eP 21:55:35.7
iS 56:10.7
Dist. 270 Km.

Dec.10 eP 00:45:50.7
1969 iS 46:15.7
Dist. 210 Km.

eP 10:22:55.2
iS 23:16.7
Dist. 180 Km.

L. Vallejos
Seismologist



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PROVISIONAL READINGS AT PELDEHUE

33° 08' 37" S 70° 41' 07" W h 690 m

No records from Dec.14
at 07:13 to Dec. 16

Dec.16 eP 19:08:16.5
1969 eS 28.5
Dist. 100 Km.

17 iP 01:05:33
iS 48
Dist. 130 Km.
Dilatation from SE

eP 01:13:46.5
Distant shock

eP 07:02:50.5
eS 03:30.5
Dist. 380 Km.

iP 10:57:09
eS 28.5
Dist. 175 Km.

eP 23:07:51
eS 08:10
Dist. 170 Km.
Small

18 eP 02:38:43
eS 39:07
Dist. 220 Km.
Small

eP 05:37:40.5
eS 38:02
Dist. 195 Km.

eP 12:11:47.5
eS 12:16.5
Dist. 270 Km.

eP 13:51:11.5
Distant shock

eP 16:51:31
iS 41
Compression from NE
Dist. 80 Km.

eP 20:45:31.5
eS 43
Dist. 95 Km.
Compression

eP 22:55:34.5
eS 56:13
Dist. 365 Km.

Dec.19 eP 02:45:30.5
1969 eS 09.5
Dist. 370 Km.

iP 05:33:27
eS 42.5
Dist. 135 Km.
Dilatation

iP 07:13:37.7
eS 14:06.5
Compression
Dist. 270 Km.

eP 23:00:26
eS 48.5
Dist. 205 Km.

20 eP 03:57:38
eS 58:47
Dist. 670 Km.

iP 16:41:21.5
eS 38.5
Dist. 150 Km.
Compression

21 eP 00:16:44
eS 17:21
Dist. 350 Km.

eP 11:31:16
eS 33.5
Dist. 155 Km.

eP 11:42:19.5
eS 59.5
Dist. 380 Km.

iP 12:49:31.4
eS 46.5
Dist. 130 Km.

eP 16:05:10.7
eS 32
Dist. 195 Km.
Small

eP 19:50:26.5
eS 36
Dist. 75 Km.

eP 23:00:43.5
eS 52.5
Dist. 70 Km.

Dec.22 iP 00:09:51.7
1969 Compression
Distant shock

eP 01:59:12
eS 56
Dist. 420 Km.

eP 02:29:08.5
eS 42
Dist. 315 Km.

eP 08:48:21.5
eS 34
Dist. 105 Km.
Small

iP 11:38:43.5
eS 54
Dist. 85 Km.
Dilatation

eP 15:10:03.7
eS 11:12.5
Dist. 335 Km.

eP 18:23:06.5
eS 45
Dist. 365 Km.

eP 19:14:18.5
eS 51.5
Dist. 310 Km.

iP 22:31:16
iS 33.3
Compression from NW
Dist. 173 Km.

23 iP 01:39:55.5
eS 40:39
Dist. 415 Km.

iP 06:57:08
eS
Dist. 160 Km.

eP 07:50:27
eS 48.5
Dist. 195 Km.

iP 12:58:38.5
eS 59:04.5
Compression
Dist. 240 Km.



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PROVISIONAL READINGS AT PELDEHUE

Dec.24 1969	iP 10:29:04.5 eS 16.5 Dist. 100 Km. Compression	Dec.25 1969	eP 22:39:58.5 eS 47:09.5 Dist. 50° Aftershock	Dec.28 1969	eP 20:18:35.5 eS 19:03 Dist. 255 Km.
	iP 11:18:58.7 eS 19:11 Dist. 105 Km. Compression		iP 23:05:20 iS 31.5 Dist. 95 Km. Compression		eP 21:38:53.5 eS 39:22.5 Dist. 270 Km.
	eP 16:15:20.5 eS 35 Dist. 125 Km.	26	eP 00:44:03 eS 35 Dist. 300 Km.	29	eP 08:35:19 eS 31.5 Dist. 105 Km.
	eP 18:44:37.5 eS 45:35.5 Dist. 560 Km.		eP 14:24:31.5 eS 49 Dist. 155 Km. Small		iP 08:51:30.3 iS 41.5 Dist. 90 Km. Dilatation from NW
	eP 20:06:35.5 eS 49.5 Dist. 120 Km.		e(P) 18:38:58.5 eS 39:54		iP 16:13:39.5 eS 58.5 Dist. 170 Km. Dilatation
25	eP 05:22:35 Distant shock	27	eP 06:36:44 eS 37:14.5 Dist. 285 Km.		eP 18:37:18 eS 29.5 Dist. 95 Km.
	eP 07:57:28 eS 40.5 Dist. 105 Km.		e(P) 13:25:29.5 eS 26:24.5		eP 18:45:19.5 eS 34 Dist. 125 Km.
	eP 09:15:12.5 e(S) 16:26.5		eP 19:47:04 Distant shock		iP 19:02:04.5 eS 21 Dist. 145 Km. Dilatation
	eP 14:19:04.3 eS 45.5 Dist. 390 Km.		iP 20:58:02.3 eS 13 Dist. 85 Km. Dilatation from NE		eP 19:10:27.5 eS 37.5 Dist. 80 Km.
	eP 17:27:36.5 eS 28:07 Dist. 285 Km.	28	e(P) 03:13:08.5		eP 19:59:28.5 eS 39 Dist. 85 Km.
	eP 17:47:52 eS 49:06 Dist. 720 Km.		eP 04:06:54.5 Distant shock	30	eP 07:19:40 eS 55 Dist. 130 Km.
	eP 18:16:16.5 e 30.5 eS 17:31 Dist. 630 Km.		eP 10:12:50.5 eS 13:08 Dist. 155 Km.		eP 10:47:14 eS 30.5 Dist. 145 Km.
	eP 21:14:10 eS 15:14 Dist. 620 Km.		eP 13:27:22.5 eS 28:14.5 Dist. 500 Km.		iP 16:51:50 iS 52:26 Dist. 340 Km. Compression
	iP 21:41:21.7 iS 48:27 Dist. 50° Dilatation		eP 14:35:13 eS 32 Dist. 170 Km.		eP 17:53:29.5 eS 46.5 Dist. 150 Km.
			eP 14:57:38 eS 51.5 Dist. 115 Km.		

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PROVISIONAL READINGS AT PELDEHUE

Dec.30 eP 18:33:16.5
1969 eS 40.5
Dist. 220 Km.

iP 21:08:34.0
Near by explosion?
Compression

H. Becker
Seismologist

Dec.31 eP 08:59:34.5
1969 eS 09:00:33.5
Dist. 630 Km.

eP 11:02:51.5
eS 03:10
Dist. 165 Km.

eP 17:13:59
eS 14:11.5
Dist. 105 Km.
Small

Dec.31 eP 19:22:01
1969 e 44.5
Distant shock

iP 19:58:41.0
eS 54
Dist. 110 Km.
Dilatation from SE

eP 23:57:16.5
Distant shock

PROVISIONAL READINGS AT SANTIAGO

33° 27' 11" S 70° 39' 42" W h 533 m

Dec.16 eP 00:47:35.0
1969 e 49.8

17 iP 01:05:30.4
iS 42.2
Dist. 100 Km.
Dilatation

e(P) 01:13:54.9

e(P) 07:03:02.4

18 e(P) 13:51:15.4

iP 16:51:34.5
Compression

19 e(P) 07:13:44.0

20 eP 03:57:41.5

21 eP 12:49:34.6

eP 23:00:41.2
eS 49.5
Dist. 65 Km.

Dec.22 eP 22:31:20.0
1969

23 eP 01:40:00.5
e(S) 46
Dist. about 435 Km.

iP 06:57:04.4
eS 20.2
Dist. 140 Km.

25 iP 07:57:30.5
eS 46.0
Dist. 135 Km.

e(P) 21:14:15

eP 21:41:24
e 48:34

eP 22:40:04

27 eP 20:58:02.0
iS 12.3
Dist. 85 Km.

Dec.28 eP 13:27:21.5
1969

eP 08:35:22.0
eS 34.2
Dist. 100 Km.

29 iP 08:51:33.1
iS 43.6
Dist. 85 Km.
Dilatation

eP 16:13:42
eS 14:04
Dist. 200 Km.

iP 19:59:23.5

31 iP 19:58:37
Dilatation

J. Salas
Seismologist

PROVISIONAL READINGS AT VALDIVIA

39° 47' 24" S 73° 16' 00" W h 12 m

Dec.05 iP 13:50:56.0
1969 iS 51:01.0
Dist. 40 Km.

08 eP 12:50:36
eS 58
Dist. 180 Km.

09 iP 21:26:16.5
iS 24
Dist. 60 Km.

11 e 10:47:00
L 48:15
Distant shock

Dec.13 eP 21:35:07
1969 eS 36:24
Dist. 720 Km.

16 e(P) 15:10:33
L 14:--
Distant shock

eP 17:57:56
eS 58:03
Dist. 70 Km.

Dec.16 eiP 18:43:09.5
1969 iP 11.6
iS 18.6
Dist. 70 Km.

eP 19:19:36
iP 37.4
iS 43.3
iS 44.4
Dist. 70 Km.

R. Schulz
Seismologist

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PROVISIONAL READINGS AT CONCEPCION

36° 49' 41" S 73° 02' 42" W h 46 m

Dec.12 eP 05:59:44
1969 eS 06:00:14
Dist. 280 Km.

Dec.24 eP 18:43:43.5
1969 iS 54
Dist. 95 Km.

Dec.25 eP 18:15:21.5
1969 eS 38
Dist. 130 Km.
Dilatation

13 eP 21:34:27.5
eS 35:18.5
Dist. 500 Km.
Dilatation

25 eP 09:14:16.5
eS 30
Dist. 105 Km.

eP 21:41:53
eS 49:29
eSS 53:04
eQ 55:23
Dist. about 55°
Compression

14 eP 14:23:11
eS 26.5
Dist. 125 Km.
Dilatation

eP 09:24:47
eS 25:01
Dist. 110 Km.

eP 17:38:11.5
eS 28.5
Dilatation
Dist. 135 Km.

16 e 15:09:46

18 eP 16:52:21.5
eS 53:10.5
Dist. 480 Km.

eP 17:46:56.5
eS 47:12.5
Dilatation
Dist. 125 Km.

A. Sickinger
SEISMOLOGIST

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PROVISIONAL READINGS AT VALDIVIA

39° 47' 24" S 73° 16' 00" W h 12 m

Dec. 22 eP 10:07:48	Dec. 25 eP 18:15:45	Dec. 28 eP 19:46:18
1969 eS 08:12	1969 e 16:13	1969 eS 24
Dist. 210 Km.		Dist. 50 Km.
	eP 21:42:13	
23 eP 06:40:02	ePP 44:33	30 eP 06:15:39
iS 14	eS 50:00	eS 57
Dist. 100 Km.	eSS 53:56	Dist. 150 Km.
	Dist. 6200 Km.	
24 eP 18:43:58	eP 22:39:53	
iS 44:14	eS 47:46	
Dist. 130 Km.	Dist. 6200 Km.	
		R. Schulz
25 e 09:14:41		Seismologist.
eS 15:02		

PROVISIONAL READINGS AT ANTOFAGASTA

23° 42' 18" S 70° 24' 55" W h 80 m

Dec. 10 eP 12:13:28.6	Dec. 11 eP 18:35:55.5	Dec. 12 e(P) 23:27:04.0
1969 iS 14:05.8	1969 iS 36:31.0	1969 iS 11.4
Dist. 280 Km.	Dist. 270 Km.	
	eP 22:34:06.7	13 e(P) 14:13:30.1
e(P) 15:29:08.3	i(S) 39.0	iS 14:01.3
eS 45.9	Dist. 260 Km.	
	iP 22:35:12.2	e(P) 21:35:24.6
iP 16:10:49.2	i 20.0	i 31.7
iS 11:14.3	iS 36:25.2	i 41.7
Compression from ENE	Dist. 700 Km.	i 36:06.4
Dist. 220 Km.		iS 37:25.2
	eP 23:40:28.7	iP 23:46:37.3
iP 21:41:52.7	iS 57.6	iS 44.5
iS 42:31.8	Dist. 250 Km.	Dilatation
Dilatation		Local
Dist. 350 Km.		
11 iP 09:44:42.4	12 eP 07:10:49.9	14 eP 03:01:59.1
iS 47.5	iS 11:11.1	i 02:04.6
Compression	Dist. 180 Km.	i 16.2
Local		
	eP 09:51:11.2	eP 03:28:22.7
iP 16:02:00.9	iS 43.3	iS 49.6
iS 05.3	Dist. 240 Km.	Dist. 130 Km.
Compression		
Local	e(P) 13:17:37.1	eP 14:12:35.8
	iS 48.2	iS 59.7
iP 16:57:11.8	Dist. 110 Km.	
iS 39.6		
Dilatation from NE	iP 17:10:20.1	eP 17:23:07.1
Dist. 240 Km.	iS 11:00.2	iS 13.1
	Compression from ESE	Local
	Dist. 360 Km.	
e(P) 17:57:00.7	eP 19:27:24.3	iP 19:25:41.8
iS 08.9		iS 26:19.8
	eP 21:45:14.3	Compression from ESE
eP 18:20:11.1	iS 35.6	Dist. 290 Km.
iS 21.5	Dist. 180 Km.	
Local		

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Dec.14 eP 23:21:14.2	Dec.18 i(S) 03:59:14.6	Dec.19 eP 21:50:14.2
1969 iS 59.7	1969 eP 04:53:08.8	1969 i 25.1
Dist. 420 Km.	i 54:18.3	iS 52.0
		i 51:05.2
15 e(P) 03:30:16.2	iS 07:29:17.7	Dist. 350 Km.
eS 32.8	eP 10:16:54.2	20 eP 03:23:07.0
iP 03:32:56.1	iS 13:23:06.1	iS 28.9
iS 33:14.0	iP 13:51:04.5	Dist. 190 Km.
Dilatation	i 26.0	iP 03:57:24.6
Dist. 150 Km.	Compression	i 41.4
eP 07:13:28.5	iP 15:45:53.1	i 53.1
iS 43.1	iS 46:12.6	iS 58:13.6
Dist. 110 Km.	Dist. 160 Km.	i 20.6
	Compression	i 30.1
iP 08:08:58.1	e(P) 16:53:38.3	Dist. 450 Km.
iS 09:34.4	i 55:36.3	Dilatation
Dilatation	i 59.0	iP 07:49:33.2
Dist. 270 Km.	iP 21:39:17.7	iS 40.1
eP 08:24:05.0	e(S) 58.3	Compression from NW
iS 21.2	Compression	Local
Dist. 130 Km.	eP 22:45:14.8	iP 08:32:37.0
eP 08:50:38.7	iS 31.9	i 50.5
iS 51:00.1	Dist. 140 Km.	iS 33:09.0
Dist. 180 Km.	19 eS 00:41:39.0	i 11.7
iP 22:29:28.3	eS 05:40:58.7	Dist. 280 Km.
iS 30:12.7	eP 06:41:15.2	Dilatation
Dist. 350 Km.	eS 54.2	e(P) 08:53:25.1
Dilatation	Dist. 310 Km.	iS 35.7
	e(P) 07:14:49.2	eS 09:13:18.0
16 eP 00:33:54.0	eP 08:08:33.7	iP 16:58:35.7
eS 34:37.6	iS 46.6	iS 40.5
Dist. 340 Km.	Dist. 100 Km.	Compression
e(P) 02:05:54.5	eP 11:52:01.9	Local
eS 06:22.6	i 23.0	e(P) 18:19:58.4
eS 02:31:42.1	iS 29.2	iS 20:04.4
eP 07:27:30.7	Dist. 240 Km.	eP 21:54:56.1
eS 28:08.9	e(P) 17:05:28.3	iS 55:36.0
Dist. 300 Km.	eS 06:03.2	Dist. 320 Km.
e(P) 09:39:49.6	eS 17:38:18.3	21 iP 00:27:58.7
eS 40:11.7		iS 28:38.5
No records from Dec.		Dist. 320 Km.
16 at 10:43 to Dec.		Compression from NE
17 at 20:00.		e(P) 00:50:05.4
18 iP 00:51:01.7		iS 51:23.8
i 41.6		
Compression		

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PROVISIONAL READINGS AT ANTOFAGASTA

Dec. 21 1969	e(P) eS	01:46:58.1 47:30.6	Dec. 24 1969	eP iS Dist. 220 Km.	04:39:37.3 40:02.6	Dec. 26 1969	i(S) eP eS Dist. 210 Km.	18:40:24.8 21:57:29.7 52.6	
	e(P) i iS	02:08:58.2 29.7 35.5		eP iS Dist. 280 Km.	06:20:58.7 21:35.0		iP iS Dist. 360 Km. Compression	23:09:43.6 10:25.7	
	eS	05:41:39.2		eP iS Dist. 270 Km.	06:43:34.6 44:09.4		eP e(S)	23:12:38.6 13:20.8	
	eP eS Dist. 280 Km.	06:20:03.1 39.2		eP iS Dist. 160 Km.	13:46:18.6 37.4	27	eP iS Dist. 150 Km.	02:48:50.8 49:08.2	
	eP i iS i Dist. 710 Km.	13:05:40.6 53.3 06:55.6 07:17.3		eP i iS Dist. 660 Km.	14:25:24.3 16:52:17.6 51.2 53:27.3		eS e(P) eS	03:41:09.0 08:12:01.4 21.6	
	eP iS Dist. 310 Km.	19:05:47.2 06:25.3		eP iS Dist. 190 Km.	23:25:25.7 47.3		iP eS Dist. 370 Km. Dilatation	18:17:05.4 44.9	
	iP iS Dist. 350 Km. Compression from ESE	21:09:35.3 10:16.5	25	eP eS Dist. 370 Km.	04:28:41.4 29:21.4		iP iS Dist. 360 Km. Dilatation	19:17:17.3 55.7	
22	iP iS Dist. 690 Km. Dilatation	00:07:45.5 08:59.0		iP iS Dist. 190 Km. Compression from ESE	05:21:03.5 25.8		iP i i Compression from ESE	19:45:27.7 53.2 56.7	
	i(P) iS	00:11:58.1 12:34.7		e(S)	07:05:06.4		28	iPKP Dilatation	04:06:35.4
	eS	02:07:17.8		e(P) iS	17:57:45.2 58:43.1		iP iS Dist. 180 Km. Compression	06:17:28.5 49.5	
	eP iS Dist. 280 Km.	04:06:07.7 43.2		e(P)	21:39:09.0		eS	08:47:47.9	
	iP iS Compression from E Dist. 300 Km.	05:47:05.4 42.5	26	eP eS	22:38:45.0 00:46:48.2		e(P) iS	09:07:55.6 08:39.0	
	e(P) iS	06:30:19.6 48.9		iP iS Dist. 260 Km. Compression from ENE	00:50:30.8 51:03.2		eP iS Dist. 300 Km.	10:20:43.5 21:16.5	
	No records from Dec. 22 at 10:40 to Dec. 23 at 20:33.			eP iS Dist. 220 Km.	14:33:07.9 32.4		eP iS Local	12:04:55.7 05:59.8	
24	eP iS	03:16:14.8 23.1		eP iS Dist. 150 Km.	14:49:38.4 56.1				

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Dec. 28 eP 13:27:21.9
1969 i 33.2
iS 28:22.2
Dist. 540 Km.
eP 18:35:01.3
iS 46.7
Dist. 420 Km.
e(P) 19:11:07.2
iS 33.2
eP 19:17:41.0
i 18:01.6
iS 21.0
i 40.1
Dist. 360 Km.
eP 20:32:56.1
iS 33:20.4
Dist. 210 Km.
e(P) 20:36:02.5
iS 28.3
29 e(P) 00:52:04.6
eS 29.1
ePKP 00:59:29.7
eP 07:25:08.1
iS 21.1
Dist. 110 Km.
eS 10:05:44.1
eP 10:09:16.0
ePKP 14:03:17.9
eP 18:28:30.3
iS 50.3
Dist. 170 Km.
eP 18:34:18.8
iS 28.8
Local
eP 19:44:26.1
iS 49.8
Dist. 210 Km.

Dec. 29 eP 20:04:18.2
1969 iS 46.6
Dist. 160 Km.
eP 23:47:06.1
iS 243.6
Compression
eP 14:16:51.3
iS 17:06.8
Dist. 130 Km.
eP 18:39:10.2
iS 21.5
Compression
Local
eP 00:48:36.6
iS 53.6
Dist. 140 Km.
Compression
e(P) 03:56:38.5
eS 57:13.2
Dist. 310 Km.
eS 07:12:42.2
e(S) 09:10:16.3
e(PKP) 19:21:58.8
eP 23:57:42.7

B. González
Seismologist

(P) 23:30:00.0
eP 23:38:42.0
eS 00:40:48.2
eP 00:40:30.8
iS 21:08.2
Dist. 200 Km.
Compression from ESE
eP 14:33:07.9
iS 32.4
Dist. 220 Km.
eP 14:48:38.4
iS 26.7
Dist. 120 Km.

iS 23.2
eS 02:41:30.2
eP 06:20:03.1
eS 39.2
Dist. 280 Km.
eP 13:02:40.6
i 23.3
iS 06:22.6
i 07:17.3
Dist. 280 Km.
eP 19:02:47.2
iS 06:22.3
Dist. 310 Km.
eP 21:09:32.3
iS 10:16.2
Dist. 320 Km.
Compression from ESE
eP 00:07:44.2
iS 08:29.0
Dist. 690 Km.
Distortion
i(P) 00:11:28.1
iS 12:34.7
eS 02:07:17.8
eP 04:06:07.7
iS 43.2
Dist. 280 Km.
eP 02:47:02.4
iS 42.2
Compression from E
Dist. 300 Km.
e(P) 06:30:19.6
iS 48.9
No records from Dec.
22 at 10:40 to Dec.
23 at 20:33.
eP 02:18:14.2
iS 23.1

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Dec.01	iP	05:13:19.1	Dec.02	eP	07:01:38.7	Dec.03	iP	12:47:15.5
1969	iS	31.6	1969	eS	02:17.2	1969	iS	31.5
	Compression			eP	09:45:38.5		Dilatation	
	eP	05:24:13.3		eS	52.2		eP	15:13:24.8
	e(S)	36.3		eP	11:08:49.2		iS	39.6
	eP	05:25:10.3		iS	09:04.8		eP	16:58:28.7
	eS	22.1		eP	12:45:43.2		eS	46.8
	iP	06:11:49.0		iS	56.4		eP	17:56:29.3
	iS	12:09.2		eP	15:47:18.4		iS	56.1
	Compression			eS	48:11.0		e(P)	22:55:34.8
	eP	06:24:39.1		iP	16:17:26.7		eS	48.3
	e(S)	25:01.5		eS	45.5		eP	22:56:35.8
	eP	07:48:37.3		Dilatation			iS	47.7
	iS	56.6		iP	17:40:07.0	04	eP	00:32:49.1
	iP	08:46:58.9		eS	41.5		eS	33:22.2
	eS	47:10.4		Compression			iP	02:51:20.2
	Compression			eP	18:05:07.6		eS	48.3
	iP	11:40:37.5		iP	19:55:18.5		eP	05:21:30.9
	eS	51.0		iS	37.0		e(S)	22:04.2
	Compression			Compression			eP	05:54:29.9
	eP	12:05:04.5		eP	21:36:07.1		eS	42.0
	eS	36.1		iS	19.1		iP	09:34:02.7
	eP	12:43:19.5		eP	22:48:00.4		eS	36.1
	iS	33.4		eS	27.7		Dilatation	
	eP	19:38:01.9		eP	23:49:46.0		eP	10:00:15.0
	eP	20:43:22.1		eS	56.6		iS	40.5
	eP	22:20:18.8	03	eP	01:02:48.8		e(P)	10:49:56.0
	eS	39.5		eS	03:08.5		eS	50:07.1
02	eP	02:06:28.5		eP	03:27:45.6		eP	11:09:04.4
	eS	50.1		eS	55.8		iS	22.1
	iP	02:21:39.7		eP	06:54:34.7		eP	15:53:03.5
	eS	54.6		eS	45.9		eS	24.8
	Dilatation			eP	07:57:28.6		eP	22:53:47.9
	iP	03:31:36.1		iS	43.2		eS	54:14.7
	iS	48.1		iP	11:07:45.5		eP	23:43:08.4
	Dilatation			iS	08:07.0		eP	23:54:29.3
	iP	04:08:44.5		Dilatation			eS	55:44.2
	iS	55.0		iP	12:26:58.1	05	eP	05:24:04.9
	Dilatation			eS	27:21.4		iS	15.7
				Compression				

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Dec.05	eP	06:50:49.0	Dec.07	eP	03:19:23.7	Dec.08	eP	10:09:54.3
1969	eS	51:13.2	1969	eS	58.8	1969	eS	10:07.1
	eP	09:15:15.0		eP	04:47:17.8		iP	13:14:52.8
	eS	43.3		eS	45.1		iS	15:15.9
	eP	10:24:19.2		iP	05:37:08.0		Compression	
	eS	48.3		eS	17.7		eP	16:44:03.4
	eP	12:48:13.2		Dilatation			eP	17:21:50.3
	iS	28.2		eP	06:06:17.0		eS	22:17.1
	eP	20:08:03.7		eS	28.4		eP	18:16:38.7
	eP	22:56:44.0		eP	07:08:05.1		e(S)	54.8
	eS	57:01.3		iS	18.2		eP	18:17:18.6
06	eP	00:14:04.9		eP	07:18:39.4		eS	30.3
	eS	29.9		e(S)	19:17.5		eP	19:06:48.1
	eP	02:42:55.7		iP	07:59:57.6		iS	07:17.5
	eP	04:23:45.9		eS	08:00:18.0	09	eP	00:31:14.0
	e(S)	24:05.1		Compression			iS	27.0
	eP	04:57:36.4		eP	10:53:44.6		e(P)	00:32:44.9
	iS	54.3		eS	54:03.2		eS	33:05.3
	iP	05:19:12.6		eP	13:08:24.2		iP	01:33:08.9
	eS	32.5		e(S)	50.2		iS	25.5
	eP	11:02:54.6		iP	14:32:11.9		Compression	
	eS	03:09.4		e(S)	20.8		eP	08:16:49.6
	eP	12:50:32.1		iP	16:12:14.2		eS	17:15.9
	e(P)	13:40:23.8		eS	33.2		iP	13:05:03.2
	eS	40.6		Compression			iS	13.6
	eP	16:05:38.4		e(P)	19:51:48.3		Dilatation	
	iS	54.7		eS	52:09.2		eP	16:29:27.5
	eP	19:11:46.3		eP	21:08:19.2		iS	48.1
	iS	12:19.1		iS	34.7		iP	21:20:24.1
	eP	19:32:58.7		eP	23:07:22.8		iS	35.0
	e(S)	33:30.7		eS	43.8		Compression	
	eP	19:41:29.6		iP	23:57:32.1		iP	21:55:30.0
	eS	46.9		iS	54.0		iS	56:02.1
	eP	23:10:22.0	08	Compression			Compression	
	eS	11:09.6	eP	00:48:24.2		eP	23:40:32.5	
	eP	23:26:26.8	e(P)	02:22:01.8		eS	50.6	
	eS	50.3	eS	19.0	10	iP	00:40:13.1	
07	iP	01:43:29.5	iP	06:26:24.7		iS	27.2	
	iS	57.7	iS	40.6		Dilatation		
	Compression		Compression			eP	00:46:01.8	
	eP	08:50:00.2		eP	08:50:00.2	eS	30.8	
	e(S)	36.8		e(S)	36.8	eP	03:53:01.4	
						eS	14.9	

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Dec.10 1969	iP eS Dilatation	08:29:57.0 30:10.9	Dec.11 1969	iP iS Compression	17:58:12.0 28.9	Dec.12 1969	eP eP eS	21:45:23.2 23:09:12.5 26.0
	eP eS	12:13:22.5 53.9		eP eS	18:35:50.6 36:21.9		eP eS	23:40:02.6 30.2
	eP eS	12:36:22.9 35.2		iP iS Compression	18:50:13.2 17.5	13	eP	01:40:33.9
	iP iS Compression	15:03:54.7 04:08.0		Explosion? iP iS Compression			iP iS Compression	20:59:28.2 48.5
	eP eS	15:29:02.2 35.6		iP iS Compression	22:33:53.5 13.2		eP	21:35:45.6
	iP Dilatation	16:10:32.2		iP eS Compression	23:40:25.9 51.2		Distant shock	
	eP eS	19:32:40.1 52.5	12	eP eS	01:40:36.4 50.2	14	eP	03:02:09.9
	eP eS	21:40:45.4 41:19.3		eP eS	01:41:02.1 24.3		iP iS Dilatation	03:28:01.6 14.4
	eP iS	23:37:08.4 37.5		iP iS Compression	07:10:30.6 49.2		eP eS	04:01:26.2 43.2
	eP eS	23:40:31.9 51.2		eP eS	07:58:05.4 33.2		eP eS	04:57:59.7 58:16.8
11	eP eS	00:39:57.5 40:09.6		eP eS	08:33:15.8 34.7		eP eS	10:59:07.2 21.5
	eP eS	03:54:08.0 19.2		iP iS Compression	09:50:50.6 51:05.2		iP iS Dilatation	14:12:18.2 29.1
	eP eS	05:18:46.1 19:07.8		eP eS	13:16:44.6 17:16.7		eP eS	15:52:36.7 55.2
	eP eS	13:16:26.1 38.9		iP iS Compression Explosion?	15:02:45.3 50.0		eP eS	16:41:18.5 48.5
	eP eS	15:25:20.5 40.2		iP iS Compression	17:10:12.3 46.4		iP iS Compression	19:25:35.1 26:09.9
	eP	16:44:43.8		eP eS	19:20:14.3 24.6	15	iP iS Dilatation	03:32:49.0 33:00.8
	iP Compression	16:56:52.4		eP eS	19:27:09.2 40.0		eP eS	07:13:38.7 14:04.0
	eP eS	17:47:28.8 48.6		iS	41.8		eP eS	08:08:52.2 09:25.7
	iP iS Compression Explosion?	17:52:29.1 32.6		eP eS	20:33:03.5 19.8			

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Dec.15 1969	eP iS	08:50:13.7 28.6	Dec.18 1969	e(P) eS	03:58:16.8 44.8	Dec.19 1969	iP Dilatation	21:49:59.0
	eP	15:10:10.0		eP	04:53:02.0	20	eP	03:57:47.0
	eP	21:50:07.1		eS	54:07.9		eS	59:09.2
	e(S)	24.6		eP	10:16:46.1		eP	05:08:51.0
	iP	22:12:12.7		iS	57.6		eS	09:12.6
	iS	23.6		iP	10:41:51.3		eP	07:49:52.9
	Compression			eS	42:03.3		eS	50:15.1
	e(P)	22:13:02.5		Compression			iP	08:32:20.4
	iS	13.9		iP	11:51:20.0		eS	43.3
16	iP	15:29:25.9		iS	39.4		Compression	
	iS	40.6		Compression			eP	10:05:12.0
	Compression			iP	13:03:09.5		eS	38.3
	iP	21:13:56.6		eS	29.7		e(P)	12:33:45.5
	iS	14:49.7		Compression			eS	34:14.2
	Compression			iP	13:21:52.1		eP	16:39:46.1
17	eP	01:11:31.1		iS	22:19.0		iS	59.9
	iS	12:12.4		Compression		21	iP	00:27:51.7
	iP	01:44:34.7		e(P)	13:51:04.0		iS	28:26.7
	eS	45:08.8		iP	15:10:03.5		Dilatation	
	Dilatation			eP	15:45:49.7		eP	00:49:59.2
	iP	06:48:40.5		iS	46:06.5		eS	51:17.0
	Dilatation			iP	18:18:24.0		iP	01:30:41.8
	eP	09:06:40.2		iS	58.8		eS	31:01.8
	eS	07:14.6		Dilatation			Dilatation	
	eP	09:31:12.8		iP	19:22:30.3		iP	02:08:38.7
	iS	33.3		iS	23:03.1		iS	59.3
	eP	10:25:04.9		Compression			Compression	
	iS	27.6		eP	23:45:09.2		eP	06:28:03.3
	eP	11:21:16.0		eS	22.8		eS	18.2
	eS	32.3	19	iP	00:19:33.2		eP	06:38:13.1
	iP	13:41:13.3		iS	48.2		eS	24.7
	iS	36.3		Dilatation			eP	09:51:23.1
	Dilatation			iP	00:41:38.9		eS	34.8
	e(P)	14:58:54.3		iS	42:01.8		e(P)	11:16:47.9
	eS	59:10.2		Dilatation			eS	17:20.6
18	eP	00:50:52.8		eP	10:52:33.3		iP	12:10:28.0
	i	53.1		eS	53:19.9		iS	46.9
	eS	51:24.6		eP	11:20:05.9		Dilatation	
	e	27.8		iS	17.9			

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Dec. 21 1969	iP 13:05:34.7 eS 06:48.7 Compression	Dec. 23 1969	iP 08:03:41.3 iS 53.6 Compression	Dec. 24 1969	eP 16:52:03.5 eP 18:03:07.5 eS 13.2 Explosion?
	eP 14:37:01.7		iP 11:42:18.8 eS 28.6 Dilatation		eP 22:25:12.6 eS 22.3
	e(P) 17:46:26.1		eP 12:46:20.7 iS 42.6	25	eP 00:32:31.7 eS 50.4
	iP 18:10:37.4		eP 14:42:19.7 eS 36.1		eP 04:28:33.4 eS 29:07.4
	eP 19:05:41.2 iS 06:14.9		eP 14:50:40.1 iS 53.2		eP 05:08:11.9 iS 24.4
	iP 21:09:24.3 iS 57.4 Compression	24	eP 00:45:26.6 eS 41.6		iP 05:21:08.1 eS 22.3 Dilatation
22	eP 00:07:40.6 iS 08:53.1		eP 01:05:03.9 iS 16.0		eP 07:03:47.4 e(S) 04:17.7
	eP 00:11:51.8 eS 12:24.6		iP 03:16:27.7 eS 45.4 Compression		eP 11:36:31.7 eS 37:08.6
	iP 02:06:32.1 iS 45.6 Compression		iP 04:39:20.1 Compression		eP 15:00:10.1 eS 24.6
	eP 04:06:59.7 eS 07:32.5		eP 04:55:22.1 e(S) 44.1		eP 17:57:36.5
	eP 05:46:58.7 eS 47:32.2		iP 06:20:54.4 iS 21:24.9 Compression		eP 21:39:58.1
	iP 06:19:52.1 Compression		eP 06:12:56.0 iS 13:19.1		eP 23:36:12.9 iS 25.0
	iP 06:29:55.8 iS 30:14.3 Compression		iP 06:43:26.1 Dilatation	26	iP 00:50:15.1 eS 36.5 Compression
	iP 10:20:26.7 eS 43.1 Dilatation		iP 12:52:33.0 iS 49.1 Compression		eP 03:55:50.9 eS 56:02.8
	eP 11:35:13.1 iS 28.7		iP 13:46:08.6 eS 20.2 Dilatation		iP 04:37:50.0 iS 38:12.6 Compression
	eP 14:42:06.6 eS 16.2		iP 13:50:44.7 iS 51:04.1 Compression		eP 12:03:30.0 eS 50.3
	eP 16:19:48.0 e(S) 20:01.2		eP 14:26:25.7 iS 47.0		iP 13:03:06.7 iS 25.8 Compression
23	eP 01:40:45.8				

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Dec. 26 1969	eP	14:27:51.2	Dec. 28 1969	eP	07:14:52.9	Dec. 29 1969	eP	22:58:47.5
	e(S)	28:03.4		eS	15:13.3		eS	58.6
	eP	14:32:46.0		eP	08:44:50.3		eP	23:46:59.2
	i	46.2		iS	45:10.1		iS	47:32.7
	e(S)	33:00.2		eP	09:07:37.5	30	eP	03:34:33.2
	eP	14:49:31.0		eS	08:18.6		iS	50.3
	eS	42.7		eP	09:43:30.3		eP	09:04:56.8
	eP	18:52:10.6		eS	46.2		eS	05:23.3
	eS	30.1		iP	10:20:25.8		eP	17:29:05.0
	eP	21:57:11.1		iS	45.9		eS	44.3
	eS	22.5		eP	12:05:24.4		e(P)	18:39:21.7
	eP	23:09:34.6		eS	49.5		eS	40.8
	eS	10:11.7		eP	13:04:28.7		iP	18:48:55.0
	eP	23:44:49.6		iS	42.2		e(S)	59.7
	eS	45:23.4		eP	13:27:37.2		Explosion?	
27	e(P)	02:49:04.1		iP	19:17:32.2		eP	22:13:37.2
	eS	26.5		eS	18:14.2		e(S)	14:32.7
	eP	03:40:20.0		Compression			eP	22:20:08.4
	iS	35.4	29	iP	00:51:54.8		eS	52.3
	e(P)	06:34:50.4		iS	52:04.2	31	e(P)	03:36:22.2
	eS	35:23.3		Dilatation			iS	36.8
	eP	07:25:30.1		eP	04:30:30.7		eP	03:56:21.7
	iS	40.0		iS	43.0		eS	44.6
	iP	08:11:12.6		e(P)	04:51:58.5		e(P)	04:24:55.9
	eS	34.9		eS	52:37.2		eS	25:20.1
	Compression			iP	07:25:12.9		eP	09:05:10.2
	eP	17:45:07.4		iS	28.8		eS	19.8
	eS	22.5		Dilatation			iP	15:52:59.8
	iP	17:51:16.7		eP	07:40:44.9		eS	04.5
	eS	22.8		eS	59.6		Compression	
	Compression			iP	07:48:18.3		Explosion?	
*	Explosion?			eS	39.5		e(P)	17:51:23.5
	eP	21:34:36.0		e(P)	09:55:45.9		eS	50.4
	eS	58.7		eS	56:17.2		iP	23:57:51.2
	iP	22:07:15.7		eP	10:31:30.3		J. Alamos	
	iS	32.5	**	eS	32:00.4		Seismologist	
	Compression			eP	18:28:23.8			
28	eP	02:26:10.9		eS	38.1			
	eS	42.7		eP	20:03:58.9			
	iP	06:17:24.8		iS	04:14.0			
	iS	43.2						
	Compression		**	eP	11:02:46.7			
* 27	iP	19:45:21.0		eS	04:07.9			
	eS	40.9						
	Dilatation							

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PROVISIONAL READINGS AT MICHILLA

22° 42' 23" S 70° 16' 01" W h 100 m

From Dec.01 to Dec.04 at 10:00 no time control.		Dec.06	Dec.07	Dec.10
		eP 23:10:04.9		iP 21:41:54.1
		iS 42.9		eS 42:32.7
				Dilatation
Dec.04 1969	iP 14:53:11.2	07 eP 01:43:34.1		eP 23:37:16.7
	iS 37.8	iS 57.8		eS 41.2
	iP 17:27:40.9	iP 03:19:34.5		e(P) 23:40:41.6
	eS 28:04.3	iS 20:17.8		e(S) 41:01.0
	Compression	Compression		
	iP 19:00:21.5	eP 03:28:50.4	11 e(P) 01:21:17.0	
	eS 56.9	eS 29:29.2	eS 31.0	
	Dilatation			
	eP 22:53:57.9	eP 04:47:23.4	eP 05:37:19.4	
	iS 54:31.7	iS 53.8	iS 43.5	
	eP 23:54:27.8	eP 05:37:14.7	eP 16:44:30.0	
	i 55:40.3	eS 30.2	iS 35.5	
	i(S) 45.0	eP 05:37:14.7	iP 16:57:00.8	
		eS 30.2	Dilatation	
05 e(P) iS	05:24:12.7 32.5	e(P) 08:00:05.8 eS 33.8	iP 17:57:57.5 iS 58:04.1	
			Dilatation	
	eP 06:50:52.6 eS 51:16.8	eP 10:53:37.0 iS 53.2	iP 18:35:58.6 iS 36:35.6	
	eP 09:15:22.3 iS 57.1	iP 16:12:23.4 iS 50.9	Dilatation	
	eP 10:24:13.4	Compression	e(P) 22:34:01.2 e(S) 23.9	
	eP 10:24:13.4 iS 44.4	eP 23:57:42.0 eS 58:10.4	e(P) 22:35:00.8 i(S) 36:03.2	
	e(P) 22:56:54.8 iS 57:18.2	08 e(P) 00:48:23.6 i 49:09.0 iS 14.0	No mark time from Dec.11 to Dec.13	
06 eP	02:42:35.4	eP 02:22:-- eS 31.8	13 e(P) 21:35:51.4 e(S) 37:53.8	
	eP 08:16:22.7 eS 59.6	eP 06:26:34.2 iS 58.9	14 e(P) 03:02:07.0	
	e(P) 12:50:23.8 e 32.7	eP 07:56:14.4 iS 31.6	eP 03:28:12.6 eS 34.5	
	eP 16:05:53.8 eS 06:13.2	iP 08:50:11.2 iS 56.4	eP 04:01:38.7 eS 02:02.1	
	iP 19:11:52.8 iS 12:29.4	Compression	eP 14:12:28.4 iS 48.5	
	Compression			
	iP 19:33:06.0 iS 50.2	From Dec.08 to Dec.10 no time control	eP 19:25:43.9 iS 26:23.1	
	Compression			

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Dec.15	iP	03:30:01.9	Dec.16	iP	17:36:30.5	Dec.18	e(P)	10:41:54.4
1969	iS	08.1	1969	i(S)	37:09.7	1969	iS	42:23.2
	Compression			Dilatation			iP 13:51:02.4	
	eP	03:32:52.2		iP	21:13:57.0		Dilatation?	
	iS	33:06.7		iS	14:50.2		eP	15:45:55.2
	Dilatation			Dilatation			eS	46:15.5
	eP	08:09:00.6	17	iP	01:11:39.2		iP	18:18:32.8
	eS	39.8		i	12:24.7		iS	19:14.0
	eP	08:24:09.5		iS	27.8		Compression	
	Dilatation			Compression			iP	19:22:38.2
	eP	08:50:23.4		iP	06:48:49.4		iS	23:17.9
	iS	45.8		eS	49:08.2		Compression	
	e(P)	10:22:17.7		Compression			eP	21:39:16.0
	iP	15:10:10.9		eP	09:06:50.6		e(S)	55.5
	i	46.8		iS	07:29.1		Dilatation	
	iS	11:02.5		eP	09:31:23.4		eP	22:45:12.6
	Dilatation			eS	52.2		iS	29.6
	eP	21:17:23.9		eP	10:25:08.3		Dilatation	
	iS	32.9		iS	39.0		eP	00:19:44.9
	iP	21:50:52.0		eP	13:41:24.0	19	eS	20:08.3
	iS	56.7		eS	42.8		Dilatation	
	Compression			eP	14:58:47.8		eP	00:41:49.0
	iP	22:12:23.0		iS	59:01.6		eS	42:14.2
	iS	43.0		Compression			iS	19.4
	Dilatation		18	iP	00:51:01.8		eP	05:40:36.7
16	eP	01:39:01.4		iS	42.6		eS	41:04.4
	eS	21.2		Compression			Dilatation	
	iP	02:05:44.7		eP	02:17:48.1		eP	06:41:16.5
	iS	06:07.6		eS	18:15.7		e(S)	55.3
	Dilatation?			eP	02:24:46.6		e(P)	06:52:09.6
	i(P)	02:06:55.4		eS	25:05.8		eS	38.5
	e(S)	07:35.2		eP	03:58:15.0		eP	08:08:52.0
	Dilatation			eS	44.8		eS	09:22.4
	iP	03:13:10.5		e(P)	04:30:44.6		iP	11:52:22.5
	e(S)	28.7		iS	58.0		e(S)	59.9
	Dilatation			Compression			Dilatation	
	eP	07:27:32.7		eP	04:52:55.2		iP	12:11:16.9
	eS	28:13.3		iS	53:54.0		iS	22.6
	e(P)	09:39:44.3		eP	07:28:43.1		Compression	
	e(S)	40:03.5		iS	29:20.1		eP	12:20:05.0
	eP	11:05:06.1		eP	10:16:50.9		iS	17.4
	e(S)	28.2		eS	17:07.0		eP	21:50:04.8
	Dilatation			Compression			iS	29.0

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Dec. 20	iP	03:57:37.8	Dec. 21	eP	12:10:38.1	Dec. 24	iP	06:21:01.5
1969	e	58:58.4	1969	iS	11:04.5	1969	iS	38.6
	eS	59:02.6					Compression	
	Dilatation?			iP	13:05:28.3		iP	06:43:34.9
	eP	06:15:44.1		iS	06:38.5		e	44:15.4
	iS	56.7		Compression			iS	18.5
				No records from Dec. 21 at 16:00 to Dec. 22 at 13:00.			Compression	
	iP	07:49:35.8					e(P)	12:52:44.3
	iS	45.0					iS	53:09.6
	Compression		22	eP	14:42:15.1		eS	13:46:31.8
	iP	08:32:24.6		eS	31.4			
	iS	49.4					e(P)	16:52:09.0
	Compression?			e(P)	16:19:54.2		i	58.2
	e(P)	10:05:44.3		i(S)	20:12.7		iS	53:02.6
	eS	06:22.2					eP	23:25:20.0
	e(P)	10:35:15.0		eP	21:12:14.6		iS	38.8
	iS	41.6	23	eS	33.0			
	eP	13:42:39.8		e(P)	01:40:37.2	25	iP	05:21:10.0
	iS	43:13.8		e(S)	42:29.1		iS	36.4
							Compression	
	iP	17:45:33.8		eP	03:55:55.3		e(S)	07:03:32.5
	iS	39.4		eS	56:13.4			
	Compression						e(P)	21:40:00.5
21	iP	00:28:00.6		iP	05:04:29.6			
	iS	40.2		iS	37.8		eP	23:45:36.3
	Compression?			Compression			eS	46:00.5
	eP	00:49:51.7		iP	05:31:20.9			
	eS	51:02.3		iS	29.3			
				Compression		26	e	00:15:52.0
	eP	01:46:41.0		iP	08:03:52.3		iP	53.2
	iS	47:03.3		iS	04:13.4		eS	16:32.6
				Compression?				
	eP	02:08:47.0		eP	11:42:29.0		iP	00:50:26.5
	iS	09:19.4		eS	44.7		iS	55.9
							Compression	
	eP	02:51:00.7		eP	12:46:29.0		iP	03:55:45.6
	e	36.3		iS	49.7		iS	54.3
	eS	41.1					Dilatation	
				e(P)	14:50:51.0		eP	13:03:15.6
	eP	04:25:44.2		eS	51:12.8		eS	39.8
	eS	26:23.6	24					
				eP	01:05:14.3		eP	14:49:34.3
	iP	06:20:05.3		eS	35.6		eS	48.9
	eS	43.6						
	Dilatation			iP	03:16:20.9		iP	21:57:21.1
	eP	06:28:03.1		iS	33.4		iS	40.1
	eS	19.2		Compression			Dilatation	
				iP	04:39:30.1		eP	23:09:43.7
	eP	11:16:50.4		Compression			eS	10:25.9
	e	17:14.9				27	e(P)	02:49:00.2
	eS	23.4		e(P)	04:55:(31.6)		e(S)	26.2
				eS	50.6			

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Dec. 27 1969	eP eS	03:40:30.2 53.8	Dec. 29 1969	eP e(S)	00:59:22.0 03:17:55.2 18:33.2	Dec. 29 1969	iP iS	23:47:07.4 46.2
	eP eS	08:11:20.8 43.3		eP e	04:30:41.4 31:02.9	30	eP iS	03:29:31.9 49.5
	iP i iS	19:45:28.2 55.0 46:01.5		iS e(P) (e)	04.3 04:51:59.3 52:16.7		eS eS	06:14:53.1 09:05:23.9
	Compression?			e(S)	30.8		eP eS	09:06:56.3 07:11.5
	eP iS	21:34:31.0 49.5		eP eS	07:25:10.4 25.2		eP iS	18:39:18.0 37.3
28	iP iS	06:17:30.0 53.9		e(P) e	09:55:49.8 56:10.2		iP iS	22:20:09.7 58.4
	Dilatation			iS	27.0		Compression?	
	e(P) e eS	09:07:38.2 08:01.9 17.7		eP e	10:04:51.5 05:24.7	31	iP iS	00:48:39.1 58.4
	iP iS	10:20:32.3 56.6		iS	25.2		Dilatation?	
	Dilatation?			eP	10:09:16.6		eP eS	03:36:25.6 55.8
	eP iS	12:05:09.6 25.0		iP eS	10:31:38.2 32:12.9		eP iS	03:56:26.7 49.5
	eP iS i	13:27:33.3 28:44.6 48.4		Compression?			eP iS	04:24:54.5 25:16.4
	iP iS	00:51:52.0 52:02.2		eP eS	11:02:43.6 03:01.8		eP	08:54:52.2
29	Compression			iP iS	20:04:09.2 32.7			
				Compression?				

No records from Dec.
31 at 12:20 to Jan.
06 at 21:30.

J. Thomas
Seismologist

PROVISIONAL READINGS AT QUILLAGUA

21° 39' 20" S 69° 31' 42" W h 800 m

No time control on
December.

C. Fuenteseca
Seismologist

PROVISIONAL READINGS AT SALINAS

23° 09' 14" S 69° 36' 40" W h 1350 m

No records from Dec. 01 to Dec. 17 at 22:25
amplifier failure.

Dec. 18 1969	iP iS	22:45:05.3 16.4	Dec. 19 1969	eP eS	06:46:07.7 43.5
	Dilatation				

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Dec. 19 1969	eF	08:08:49.2	Dec. 22 1969	eP	00:07:42.8	Dec. 24 1969	eP	12:54:43.5
	eP	11:52:18.0		iS	08:52.9		iP	13:39:09.7
	eS	52.6		eP	00:11:51.5		iS	20.7
	eP	16:10:51.0		eS	12:24.4		eP	16:52:10.0
	eS	11:03.4		eP	02:06:40.0		iS	53:12.2
	eP	17:20:20.4		eS	07:00.3	25	eP	04:28:34.6
	eS	49.5		eP	04:07:00.6		eP	05:08:19.8
	eP	17:37:39.4		eS	35.0		eS	38.7
	eS	56.5		iP	05:46:58.9		eP	05:12:26.7
20	eP	03:57:35.0		iS	47:27.6		iP	05:21:01.4
	iS	58:52.8		Dilatation			Compression	
	eP	07:49:39.7		iP	06:30:05.0		eP	15:00:10.0
	iS	52.7		iS	31.1		eS	23.9
	eP	08:32:27.5		Compression		26	iP	00:50:20.7
	iS	53.4		iP	10:20:25.6		iS	47.6
	eP	13:42:55.6		iS	40.5		Dilatation	
	eS	43:10.8		Dilatation			eP	13:51:14.9
	eP	15:19:46.3		eS	16:13:33.1		eS	29.0
	iS	55.6		iP	16:15:48.7		eP	14:32:54.7
	eP	16:39:53.3	23	iS	16:02.6		eS	33:16.0
	eS	14.2		eP	01:40:36.5		eP	14:49:28.1
21	eP	00:27:52.2		eS	03:54:47.2		eS	37.9
	iS	28:28.0		eP	05:04:36.5		iP	21:57:17.4
	eP	00:49:01.0		eS	48.7		iS	34.2
	eP	01:46:46.7		eP	05:31:27.7		Dilatation	
	eP	02:08:46.7		eS	39.5		eP	23:44:49.6
	eS	09:13.8		iP	08:03:50.0		eS	45:23.8
	eP	02:50:52.9		iS	04:08.1	27	eP	02:48:53.4
	eP	04:31:31.0		eP	14:50:49.0		eS	49:13.7
	eS	32:05.4		eS	51:10.0		eP	03:40:29.1
	eP	12:10:37.1	24	iP	03:16:16.0		eS	51.7
	eS	11:03.8		iS	25.1		eP	06:34:59.1
	eP	13:05:37.3		Dilatation			eS	35:39.2
	i	38.0		iP	04:39:28.3		eP	08:11:24.0
	i	06:52.0		iS	45.3		iP	19:45:20.6
	iS	56.2		iP	06:20:53.6		iS	44.0
	eP	19:05:41.0		iS	21:26.2		eP	21:34:40.3
	eS	06:15.2		eP	06:43:27.7	28	iP	06:17:21.0
				eS	44:02.3		iS	34.8
							Dilatation	

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Dec. 28 1969 eP 09:07:40.8
 eP 10:20:34.3
 eS 21:00.6
 eP 12:05:10.5
 iS 27.4
 eP 13:04:38.0
 eS 59.1
 iP 13:27:29.0
 Dilatation
 eP 13:55:27.8
 eS 44.0
 iP 18:35:06.1
 Compression
 eP 19:10:10.8
 eS 40.9
 iP 19:17:36.0
 Compression
 eP 20:36:14.4
 eS 50.1
 29 iP 00:51:56.3
 iS 52:08.9
 eP 00:59:24.5
 eP 02:43:23.2
 eP 03:17:47.2
 eS 18:20.7
 eP 04:30:39.5
 eS 59.0
 iP 07:25:03.0
 iS 12.4
 Compression
 eP 09:55:53.0
 eP 10:04:48.9
 eS 05:26.6
 iP 10:31:30.4
 eS 32:00.1
 Compression
 eP 11:02:51.6
 eS 03:18.8

Dec. 29 1969 eP 18:28:21.4
 iS 35.5
 eP 18:34:19.0
 eS 29.6
 eP 19:44:40.9
 eS 45:13.4
 iP 20:04:09.7
 iS 32.0
 eP 21:07:00.4
 eS 40.9

From Dec. 30 to
Dec. 31 no mark
time.

A. Reveco
Seismologist

29 JUL 1971

1.

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21° 39' 20" S 69° 31' 42" W h 800 m

Jan. 01 1969	eP eS	17:40:56 41:11	Jan. 13 1969	eP eS	12:00:46 58	Jan. 19 1969	eP eS	23:09:41 50	
02	eP eS	15:28:29 47	14	eP iS	16:10:15 29.0	20	eP eP eS	06:16:15 08:08:40 58	
	eP eS	21:26:23 37		iP eS	16:30:31.6 40		eP i	22:03:54 04:09.3	
04	eP eS	05:08:06 25	15	iP	20:58:53.6	21	eP eS iS	12:51:24 42 43.5	
06	eP eS	20:19:17 55	16	eP iS	04:04:18 33.2		iP i i	19:47:51.2 48:04.0 07.7	
07	eP eS	07:01:08 20	17	eP eS	03:01:25 42		Dilatation		
	eP iS	16:02:53 03:05		iP Dilatation	03:54:57.4	23	iP i i	13:46:33.3 43.7 54.1	
08	eP	04:01:15		eP eS	04:35:53 36:02		Compression		
	eP eS	10:13:54 14:15		eP eS	07:22:09 22		iP iS	13:59:25.5 41.1	
	eP eS	11:18:14 34		eP	08:00:12		Compression		
	eP eS	13:10:55 11:11		eP iS	10:29:47 30:05.3	24	eP iS	09:40:55 41:12.0	
09	iP eS	08:21:18.7 29		eP eS	11:00:43 01:03		eP iS	12:49:35 52.2	
	Compression			18	eP eS	00:04:22 54		iP iS	13:24:45.8 25:01.2
	eP iS	22:57:02 21.3		eP eS	00:13:01 28	25	eP iP	04:07:42 08:30:24.0	
	eP	23:11:07		eP iS	00:21:26 41.0		i i i	27.7 37.4 38.8	
11	eP eS	06:08:25 37		eP iS	07:01:43 49.0		Dilatation		
	eP eS	06:22:27 23:06		eP iS	15:59:32 45		iP iS	10:15:38.8 52.2	
	iP eS	17:49:36.1 50:02		eP eS	04:57:17 32.0		Dilatation		
	Compression		19	eP iS	20:46:37.3		iP	10:34:46.2	
12	iP	19:45:28.8		Compression			eP	16:04:01	
	Compression			iP	21:28:50	26	eP	08:03:10	
13	eP eS	01:59:54 58:17		eP eS	29:21		iP i	09:58:39.8 44.1	
							Compression		

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Jan. 27 1969	eP	21:33:11	Feb. 04 1969	eP	13:53:00	Mar. 25 1969	eP	02:24:24
							iS	41
28	eP	01:09:56	No records from Feb. 04 at 15:56 to Feb. 06 at 14:32.				eP	05:51:51
	eP	09:52:52					eP	08:16:22
29	eP	15:13:06	06	eP	16:29:21		eS	36
	eP	17:42:42		eP	21:39:27		eP	10:14:33
	eP	17:45:55		i	45.4		eS	51
				i	46.6			
30	eP	22:14:34	07	iP	05:50:50.0		eP	11:17:40
				i	51:07.1		iS	55
31	eP	04:34:11	Compression					
	i	21.1		iP	09:38:49.5	26	eP	02:03:27
				i	39:05.6		eS	43
	iP	05:25:19.5	Compression				eP	05:44:05
	Compression						iS	20
	iP	09:17:01.0		iP	09:57:56.4		eP	11:11:33
	Compression			Compression			i	51
	eP	22:27:11	08	eP	06:57:54		eP	12:24:33
Feb. 01 1969	iP	05:38:43.0	No records from Feb. 08 at 06:57 to Mar. 22. Station stopped.				iP	34
	Dilatation						iS	51
	eP	07:36:25	Mar. 22 1969	iP	15:17:30.1	27	eP	04:11:00
	eS	38		iP	31.0		eS	36
	eP	09:13:08		iS	46.7		eP	07:28:27
	eP	11:55:56		eP	19:33:01		eP	07:47:39
	eP	18:40:27	23	iP	10:18:12.9		e	48:05
02	eP	07:00:10		iP	13.8		iS	15
	e	23		iP	11:57:44.3		eP	08:33:46
	eP	08:09:55		iS	58:02.5		i	54
	e	10:04		iP	12:01:19.2		iS	34:00
03	eP	06:16:38		iS	37.3		eP	09:15:46
	e	53		iP	16:23:22.4		iS	16:04
	iP	09:08:59.5		eS	39.7		eP	11:17:49
	i	09:15.4		eP	19:47:44		eP	12:03:29
	Compression			i	55		iS	45
	eP	11:10:26	24	eP	07:40:37	No records from Mar. 27 at 16:00 to Mar. 30 at 21:28. Station Stopped.		
	iS	43.0		iS	44			
04	eP	12:20:15		eP	07:48:11	31	eP	06:04:34
	eS	29		eS	28		iS	49
	eP	13:43:19		eP	17:20:11	Apr. 01 1969	eP	05:02:07
	i	39.0		eS	20			
			25	eP	01:01:49			

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Apr. 01 1969	eP eS	06:04:45 05:00	Apr. 11 1969	eP iS	05:19:46 20:02	Apr. 26 1969	iP eS	08:41:19.0 42:00.6
			12	eP	01:00:05		Compression	
	eP i	12:48:56 49:17		eP	01:32:49		iP eS	11:07:19.8 38.1
	Compression			Compression				
	eP e	16:09:42 10:00		eP iS	08:09:02 15		iP eS i	13:59:35.9 14:00:19.5 21.1
02	eP eS	08:04:51 05:02		Compression				
	eP eS	11:44:07 19		eP iS	13:57:11 21		iP	14:17:04.5
				eP iS	16:11:35 50		Dilatation	
	iP	16:57:39.0		eP iS	18:15:51 16:00		iP eS e	16:51:14.8 55.7 19:06:03.3 28.3 46.2
	Compression			Compression				
	iP iS	18:31:14.6 32.0	13	eP	18:10:53		iP	19:34:59.2
	Dilatation			Dilatation			iS	35:16.4
03	eP eS	01:32:53 33:10	14	eP i	11:01:22 23		Compression	
	eP	05:27:26		eP	23:18:03	27	iP	00:35:51.5
	eP	08:15:53	15	Station stopped			Compression	
	eP	08:17:41	16	No shocks			iP	03:34:37.4
	eP	10:32:29	17	No shocks			iP	05:22:17.8
05	eP eS	02:41:20 48	18	Station stopped			Compression	
	eP eS	06:18:44 19:22	19	Station stopped			iP iS	05:37:01.6 37:17.7
	eP eS	10:34:02 16	20	No shocks			iP iS	07:34:15.2 33.4
	iP iS	12:31:28.0 39.0		From Apr. 21 to Apr. 24 at 16:00 no records due to time correction with error.			iP iS	07:40:39.4 58.7
	Compression		24	iP	22:52:26.9		iP iS	07:53:10.4 23.7
	eP	18:05:19		Compression			Compression	
07	eP e	01:51:15 41.5	25	iP	01:43:35.7		iP i	08:34:52.7 55.1
	eP	05:08:04		iP	07:12:31.4		iS	35:37.7
	eP	11:53:50		Compression			iP iS	10:26:38.7 55.1
	i	54:03		iP	15:34:33.5		Compression	
09	eP	19:31:34		iP	16:58:48.7		iP eS	11:36:24.5 42.1
	eP iS	15:25:04 17		Compression				
	eP iS	19:35:41 53		iP	20:05:38.1		iP	12:04:42.4
	eP iS	20:18:41 57	26	iP iS	05:48:19.4 37.0		iS	58.6
				Compression			No records from Apr. 27 at 16:00 due to time correction with error,	

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No records from May 01 to May 10. mograms failed.		May 11 iP 10:27:52.3	May 13 iP 01:44:07.3
		i 59.8	eS 45
		Compression	
May 10 eP 02:16:02		eP 10:55:27	eP 02:44:04
1969 eS 58		iS 41.1	eS 23
eP 04:13:53		iP 18:48:40.8	iP 06:02:19.5
eS 14:10		eS 58	eS 35
iP 04:50:54.0		Dilatation	iP 06:17:18.9
iS 51:10.9		eP 19:51:02	eS 30
Compression		iS 20.4	Dilatation
iP 05:36:52.7		iP 20:30:15.4	eP 10:34:52
eS 37:10		iS 34.6	iS 35:08.0
iP 07:10:54.5		Compression	iP 13:02:02.8
eS 11:10		iP 21:19:04.8	iS 16.9
eP 08:05:47		iS 30.1	eP 14:30:51
eS 06:05		Dilatation	eP 16:37:09
iP 08:45:59.1		iP 21:36:07.0	eS 49
iS 46:15.8		eS 23	eP 19:00:22
eP 10:31:28		Compression	iS 39.3
eS 43		eP 22:27:35	
iP 10:53:34.3	12 eP 00:29:47	eS 28:15	iP 19:35:05.1
eS 51	i 47.9		Dilatation
Dilatation	iS 30:26.8		iP 23:54:43.8
eP 13:57:16	iP 01:38:27.1		eS 55:02
i 35.4	iS 42.1		14 iP 00:28:17.4
i 48.4	Dilatation		iS 29:46.0
eP 16:01:28	iP 07:22:44.4		Compression
eS 41	iS 23:03.2		iP 03:21:13.4
eP 17:54:17	eP 07:59:45		eS 53
iS 34.9	iS 54.5		Compression
eP 20:16:55	eP 08:44:08		eP 04:01:10
iS 17:04.8	i 08.1		iS 30.4
11 eP 00:21:13	iS 26.0		iP 08:10:32.9
eS 28	iP 08:49:29.3		Dilatation
eP 00:44:25	eS 45		eP 08:48:18
eS 43	eP 13:21:09		eS 33
iP 02:37:04.4	eS 37		iP 12:15:49.5
iS 20.7	eP 20:50:00		iS 16:03.4
Dilatation	iS 26.0		iP 13:46:12.5
iP 05:16:42.1	eP 22:40:18		iP 14:53:34.1
i 44.6	i 41:03.9		i 44.9
i 17:00.3	i 05.5		iS 52.6
Dilatation			

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May 14 1969	iP iS	19:11:52.6 12:05.4	May 21 1969	eP eS	11:14:37 53	May 24 1969	iP iS	14:59:11.8 28.5
	iP iS	20:37:17.8 37.3	22	eP iS	21:41:33 42:07.9		iP iS	16:58:44.3 18.1
	eP eP iS	20:50:54 20:56:45 57:04.1	23	iP iS	03:04:20.4 37.9		eP iS	17:46:05 21.1
	eP eS	21:08:08 26		iP i i Dilatation	03:06:03.4 09.2 20.3		eP eS	19:56:08 42
No records from May 15 to May 16 at 21:00 Seismogram failed.				iP iS Dilatation	04:18:10.8 25.5	25	iP iS Compression	21:33:19.6 38.0
20	iP i i	01:28:14.5 23.3 26.1		iP eP eS	05:50:14.0 06:16:34 17.14		iP iS Dilatation	21:59:56.0 22:00:16.1
	iP iS Compression	02:22:14.5 28.1		iP iS Dilatation	08:32:18.8 33.6		iP iS Dilatation	23:51:05.4 20.1
	iP iS Compression	04:31:45.7 32:03.4		iP eP i	15:03:25.7 15:45:29 49.8	26	iP iS Compression	00:46:38.4
	eP iS	04:47:51 48:06.4	24	eP eS	01:38:22 57		iP iS Compression	02:58:04.2 19.0
	iP iS Dilatation	08:01:43.8 59.2		eP iS	03:10:05 22.8		iP iS Dilatation	05:41:14.4 31.4
	iP iS	16:02:57.9 03:15		eP iS	04:10:35 51.9		iP iS Dilatation	07:47:02.6 18.0
	eP eS	19:47:34 55		eP iS	06:46:03 21.0		iP i Compression	13:13:38.3 45.3
	iP i Dilatation	20:33:32.9 41.9		eP eS i	07:04:25 44 44.7		iP eS	14:25:55.9 26:09
	iP e i Dilatation	20:53:37.3 58 59.9		iP iS	10:25:48.9 26:06.0	29	iP iS Compression	16:07:37.6 54.6
21	iP Compression	04:27:16.9		iP e i	10:42:57.3 43:11 12.0		iP iS Compression	16:24:06.4 20.6
	iP iS Compression	05:44:31.8 48.0		iP iS Dilatation	14:47:11.5 53.4		eP iP eS Compression	18:19:33 23:12:34.0 13:15

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May 30 1969	iP	00:42:07.2	Jun.02 1969	iP	07:19:18.4	Jun.03 1969	iP	21:03:51.0
	iS	24.7		iS	28.5		i	58.9
	Compression			eP	08:37:21		Dilatation	
	iP	02:37:23.9		eS	39		iP	22:39:46.0
	iS	41.0					Compression	
	iP	03:36:25.1		iP	12:26:20.7	04	iP	02:11:53.4
	iS	37:05.9		eS	36		iS	12:10.5
	Dilatation			eP	12:46:33		Dilatation	
	eP	11:29:37		iP	12:52:07.9		iP	03:43:22.7
	e	40		iS	19.7		Dilatation	
	i	48.4					eP	04:41:02
	i	30:02.0		iP	12:53:11.2			
	i	03.8		iS	37.8		iP	05:54:05.9
	iP	12:27:53.2		eP	14:28:23		iP	07:55:59.3
	iS	28:09.2		iS	41.0		iS	56:29.8
	Dilatation			eP	14:49:37		iP	10:25:12.5
	eP	14:29:51		eS	50:10		eS	30
	iS	30:20.9					iP	10:30:57.2
31	No mark time			iP	18:59:18.3		eS	31:24
				eS	58			
Jun.01 1969	iP	16:54:31.3		Dilatation			iP	16:47:46.1
	i	43.9		eP	19:50:10		eS	48:05
	iP	17:11:40.8		eS	24			
	iS	57.3					iP	17:57:05
	eP	18:38:58		iP	20:44:49.2		iS	16.4
	iS	39:40.5		iS	45:02.8			
	eP	18:38:58		eP	22:21:16		iP	20:53:10.8
	iS	39:40.5		eS	22:23		iS	25.1
	iP	19:35:26.2						
	eS	42		iP	23:27:00.8		iP	22:41:58.7
	eP	21:16:16		iS	17.9		iS	42:15.3
	iS	32.9						
	eP	22:01:32	03	iP	02:09:30.7		iP	23:15:21.7
	iS	02:12.9		iS	41.2		eS	36
				Dilatation				
	iP	22:08:31.9		iP	02:19:59.8	05	eP	04:37:51
	iS	51.6		iS	20:13.5		iS	38:08.0
				Dilatation				
	iP	23:21:03.7		iP	08:04:40.3		iP	05:33:02.3
	iS	18.9		iS	56.2		iS	19.8
	Dilatation							
02	iP	00:53:46.1		iP	11:28:37.1		iP	11:20:15.4
	iS	54:00.4		iS	52.2		iS	35.6
	eP	03:06:28						
	eS	07:07		iP	16:40:01.8	06	iP	22:26:03.2
				eS	18		Compression	
	iP	05:16:46.2		eP	06:50:58	07	iP	02:46:12.4
	iS	17:03.8		eS	51:17		iS	28.8
	iP	05:34:31.0		iP	17:29:41.4		iP	04:14:20.4
	iS	38.9		eS	30:01		iS	35.7
							Dilatation	

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Jun.07 eP 1969 iS	14:01:31 45.2	Jun.10 eP 1969 iP	02:15:39 04:37:07.4	Jun.12 iP 1969 iS	11:06:08.3 24.6
eP	16:48:05	eS	25	eP	12:01:44
i	05.5	eP	04:53:11	eS	57
iS	30.0	eS	52	eP	12:22:21
iP	20:32:09.3	iP	06:23:48.0	iS	36.0
iS	20.8	i	55.7	eP	12:33:28
iP	23:24:52.8	i	24:04.9	iS	43.2
e	25:10	Dilatation		eP	15:43:14
eS	11	eP	07:05:53	iS	31.8
08 iP	05:54:49.4	eS	06:21.5	iP	16:28:26.9
iS	55:05.8	i	22.2	iS	42.7
Dilatation		iP	08:15:18.0	iP	18:48:28.2
eP	07:51:10	iS	28.7	eS	43
eS	35	Dilatation		iP	21:27:45.3
i	37.2	eP	14:43:25	eS	28:26
eP	15:01:51	e	32	iP	23:05:38.6
eS	02:07	i	43.4	iS	48.2
iP	17:35:02.8	eP	19:17:04	Dilatation	
eS	17	iS	19.9	eP	23:46:58
eP	19:32:17	iP	20:51:47.7	eS	47:12
eS	29	i	48.0	13 eP	01:01:57
iP	21:11:45.1	iS	52:03.5	iS	02:51
eS	59	11 iP	02:38:03.7	iP	01:34:19.1
Compression		iS	17.3	eS	34
iP	21:32:09.8	Dilatation		iP	01:39:40.2
eS	24.7	iP	03:59:27.3	eS	40:00
i	25.1	eS	46	iP	01:56:27.6
09 iP	00:02:42.3	eP	05:58:33	iS	39.0
iS	59.1	iS	51.8	iP	04:59:09.2
iP	04:11:21.7	eP	09:14:28	iS	37.3
eS	39	eS	46	eP	05:29:28
iP	05:07:30.2	iP	12:07:15.8	iS	45.0
iS	46.4	eS	25	iP	08:35:19.3
iP	09:14:42.2	Dilatation		Compression	
i	56.8	iP	13:04:43.0	iP	12:36:50.2
iS	15:04.1	eS	57	eS	37:07
i	05.0	iP	23:53:46.7	eP	22:09:14
iP	21:35:53.5	Compression		iS	28.4
e	36:03	12 iP	00:40:00.6	eP	23:23:48
iS	10.9	iS	17.4	eS	24:21
iP	23:09:56.1	Compression		eP	23:57:34
iS	10:12.9	iP	01:56:14.6	iS	53.1
		eS	32		
		Compression			

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Jun.14 iP	05:19:41.9	Jun.22 iP	06:58:39.3	Jun.24 iP	13:26:38.5
1969 iS	50.0	1969 iS	55.3	1969 iS	53.0
Dilatation					
Station stopped from Jun.14 to Jun.19.					
19 eP	21:02:44	iP	09:25:44.3	eP	20:12:42
eS	03:02	iS	57.0	iS	58.8
20 eP	00:08:09	eP	11:36:55	iP	20:28:11.6
		iS	37:13.1	iS	21.8
		eP	11:43:27	Dilatation	
		iS	42.8	iP	22:26:41.9
		eP	18:13:47	Dilatation	
		eS	14:18	25 iP	01:41:46.8
iP	20:34:53.1	eP	21:37:41	Dilatation	
iS	35:09.0	23 iP	04:08:24.9	eP	03:23:28
21 iP	04:27:36.1	eS	32	eS	42
Dilatation		Dilatation		iP	05:55:54.7
eP	04:29:39	eP	04:47:18	iS	56:08.7
eS	57	iS	37.0	eP	08:01:03
eP	06:34:29	iP	14:34:55.0	eS	23
eS	46	iP	16:04:10.2	iP	08:41:02.6
iP	07:45:19.4	iS	24.0	eS	18
eS	41	eP	17:24:39	iP	14:24:51.4
iP	09:23:52.0	eP	18:55:08	iS	25:08.7
iS	24:05.7	iS	22.6	Dilatation	
Dilatation		eP	20:02:49	iP	19:46:45.1
iP	10:45:30.0	iS	03:05.0	iS	50:00.6
Compression		26 eP	02:00:27		
eP	11:28:17	iP	20:30:06.7	eP	04:43:09
iS	37.7	iS	20.0	eP	05:25:22
iP	14:00:49.4	24 iP	00:19:32.7	eS	37
iS	01:30.1	iS	50.7	eP	05:37:30
Dilatation		eP	04:30:34	eS	43
iP	14:51:12.6	eP	04:48:34	eP	06:24:02
eS	26	iS	48.5	eP	15:16:48
iP	18:23:55.5	iP	05:20:21.9	iS	17:02.3
22 iP	00:40:47.2	iS	56.1	eP	17:13:19
iS	41:06.0	iS	21:20.1	eS	30
iP	02:59:04.2	eP	08:40:56	eP	19:15:26
iS	17.8	eS	41:36	iP	22:30:37.3
eP	03:54:29	eP	09:00:52	27 eP	02:36:27
eS	56	eS	01:19	iP	03:11:34.5
iP	04:41:03.4	eP	10:39:17	iS	50.8
Dilatation		eS	33		

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Jun.27 1969	iP iS	04:20:52.7 21:07.8	Jun.29 1969	eP eS	18:50:13 30	Jul.03 1969	iP iS	17:48:11.0 27.2
	eP	04:27:31	30	iP iS	01:12:19.2 36.6		Dilatation	
	iP iS	04:36:15.8 27.2		Compression			iP iS	19:49:14.1 28.2
	iP	05:09:56.0		eP eS	01:20:10 25		eP eS	21:50:07 19
	iP	05:41:52.6		iP	18:15:29.2		Dilatation	
	iP	08:58:16.2		Dilatation			iP	22:19:06.1
	Compression			eP	20:04:59		Compression	
	eP	12:45:40		i eS	05:01.0 06:12		iP	23:19:49.7
	eP iS	18:38:33 39:13.0		Dilatation			Dilatation	
	eP	19:28:54	Jul.01 1969	iP iS	22:03:00.4 39.8	04	eP	23:34:34.4 53.5
	eS	29:07		iP iS	17:04:36.9 51.5		Dilatation	
	eP	19:47:31		Dilatation			eP	07:54:20
28	iP eS	02:54:08.4 23		iP iS	22:44:58.1 45:18.3		iP eS	08:36:38.5 59
	eP eS	04:06:13 34		iP eS	23:44:04.6 27		eP iS	09:03:45 04:06.5
	eP eS	06:18:34 19:04	02	iP iS	06:59:10.9 32.1		iP i	10:20:23.6 41.3
	iP eS	10:18:52.2 19:12		Dilatation			eP eS	11:43:16 26
	eP iS	17:12:56 13:10.3		iP	10:14:28.4		iP iS	14:27:22.9 37.7
	iP	22:31:55.5		Dilatation			iP	14:45:27.8
	Compression			eP iS	17:08:55 09:37.8		eP iS	14:56:25 45.2
29	iP iS	00:08:23.0 52.7		iP	17:57:07.1		Dilatation	
	iP iS	02:13:21.0 35.7		Dilatation			iP	16:33:13.1
	Dilatation			eP e	18:20:37 51		Dilatation	
	iP iS	07:19:17.0 32.3		iS	52.1		iP eS	19:33:44.8 58
	Dilatation			iP iS	19:40:55.2 41:11.8	05	Dilatation	
	iP	10:01:55.2		Compression			iP iS	03:24:14.6 15.2
	eP	18:46:23		iP eS	20:08:15.2 28		iP iS	05:02:08.1 15.2
				eP iS	23:59:32 44.8		Dilatation	
			03	iP iS	06:00:51.4 01:06.6		eP eS	07:07:49.0 58.1
				Compression			Dilatation	
							eP eS	08:31:36 52

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Jul.11 iP 00:57:03.1	Jul.13 iP 09:48:07.4	Jul.30 iP 23:55:14.9
1969 iS 17.9	1969 iP 11:04:10.2	1969 Compression
iP 01:38:11.0	iS 51.8	31 iP 01:57:41.4
iS 23.4	eP 11:43:40	iP 04:23:46.9
Compression	i 55.8	iS 51.6
iP 03:56:34.8	eP 14:50:26	iP 06:01:05.7
iS 51.1	iS 42.4	iS 24.1
Dilatation	iP 19:31:01.8	Compression
iP 19:12:30.4	i 10.8	iP 09:29:42.8
eS 13:09	eP 21:44:51	iS 49.7
Compression	iS 45:02.6	Dilatation
iP 23:57:44.4	iP 23:13:42.2	eP 12:13:05
eS 59	iS 14:00.5	i 18.1
Compression	Dilatation	eP 19:32:18
12 eP 00:34:57	14 iP 03:46:24.0	i 19.8
eS 35:39	iS 38.6	iS 53.5
iP 01:00:08.5	Dilatation	iP 20:22:03.2
iS 20.2	eP 06:04:16	iS 41.5
iP 02:19:19	iS 33.3	Dilatation
iS 41.4	iP 10:57:16.4	iP 20:34:45.1
eP 02:26:53	Dilatation	iS 35:02.1
e 27:17	iP 13:05:52.8	eP 22:35:16
i 19.1	Compression	iS 45.3
eP 04:30:08	iP 14:16:34.5	eP 22:50:25
iS 22.3	No records from Jul.	Ago.01 iP 01:10:23.8
iP 07:01:15.5	14 at 15:55 to Jul.	1969 eS 44
iS 32.5	29 at 21:39. Station	iP 04:06:08.2
eP 18:22:58	stopped.	eS 49
iS 23:16.5	30 iP 02:46:33.6	02 iP 01:06:35.1
iP 22:15:03.9	iS 48.2	iS 59.3
eS 20.3	eP 04:01:54	eP 02:55:36
iP 23:47:18.4	iS 02:15.1	iP 14:05:31.8
iS 32.8	eP 07:00:24	eS 54
Compression	eS 01:02	iP 15:45:04.9
eP 23:57:04	eP 10:09:32	iS 17.8
eS 18	i 32.8	iP 16:32:50.8
13 iP 02:33:10.2	iP 11:34:08.4	eS 33:06
iS 26.1	Compression	iP 17:21:27.3
Compression	iP 12:06:09.8	eS 44.2
eP 05:45:56	iS 29.8	iP 18:09:20.7
i 56.9	Compression	iS 36.2
eP 06:28:59		
i 29:03.7		

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Ago.03 1969	iP iS	00:41:17.3 34.1	Ago.08 1969	iP iS	20:53:10.1 26.9	Ago.02 1969	iP iS	04:20:45.3 21:26.7
	iP iS	07:03:28.4 44.5		iP iS	22:50:01.4 40.2		iP	05:52:45.2
	iP iS	14:32:15.9 40.7	09	iP iS	01:51:58.3 52:36.5	13	iP iS	03:03:06.8 20.9
04	iP iS	03:05:40.3 06:43.8		iP iS	15:32:50.1 33:00.4		iP iS	03:20:54.7 21:10.8
	iP	04:05:27.3		iP iS	19:58:12.8 54.2		iP iS	03:41:29.8 55.5
	iP iS	06:38:53.8 39:06.3	10	iP i	02:41:16.5 42:20.3		iP iS	03:49:41.3 49.3
	iP iS	09:21:22.3 22:01.6		iP iS	06:51:18.2 59.1		iP iS	19:07:55.8 08:12.8
07	iP iS	00:45:39.3 46:03.3		iP iS	15:05:57.8 06:16.5		iP iS	19:36:33.3 46.3
	iP	04:49:26.7		iP iS	19:54:31.6 49.3		iP iS	22:03:41.3 04:34.8
	iP eS	08:04:40.9 05:00		iP iS	22:28:12.3 27.6	14	iP i eS	07:42:03.8 11.8 21
	iP iS	08:16:54.2 17:13.7		iP iS	22:30:43.7 31:04.1		iP iS	10:44:45.0 45:27.1
	iP iS	10:05:36.4 06:03.2	11	eP iS	00:46:01 15.3		iP iS	16:20:07.3 19.6
	iP eS	19:59:20.5 38		iP	01:13:41.7		iP iS	17:31:59.2 41.3
	iP iS	20:44:29.0 42.8		iP eS	01:25:09.9 45		iP iS	19:43:54.8 44:09.8
08	iP iS	01:38:38.5 49.1		iP iS	02:42:26.3 43.8	15	iP iS	05:11:43.8 12:13.2
	iP iS	01:43:13.6 24.8		iP	03:44:25.3	16	iP	00:51:13.2
	iP iS	02:20:22.4 51.9		iP iS	06:00:24.4 44.8		iP	18:28:19.8
	iP eS	02:45:00.6 36		eP iS	09:25:07 43.1		iP iS	19:39:17.5 33.2
	iP	05:12:23.8		iP iS	13:02:37.8 03:04.8		iP iS	22:30:00.1 37.6
	iP iS	07:21:18.1 35.2		iP iS	16:31:33.9 50.8		iP iS	23:17:12.7 27.8
	iP iS	16:57:32.4 49.8		iP iS	16:58:44.5 59:01.8	17	iP iS	02:43:43.4 59.2
	iP iS	20:08:40.2 09:06.6		iP eS	21:19:56.8 20:09		iP iS	04:43:13.6 39.2
	iP	20:13:29.3						

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Ago.17 iP 1969 eS	21:38:06.4 43:45	Ago.20 iP 1969 iS	00:11:28.4 12:08.3	Nov.12 iP 1969 i	21:16:34.1 49.3
iP eS	21:39:45.4 40:04	iP iS	00:28:04.9 21.4	iP iS	22:30:57.7 31:07.3
18 iP iS	00:55:34.6 51.4	September and October seismograms failed.		Compression	
iP iS	01:53:11.1 52.1	Nov.02 iP 1969 i	07:07:38.6 45.3	13 iP iS	02:52:59.6 53:18.3
iP eS	01:58:38.3 59:55	iP Dilatation	13:39:44.6	iP i	04:04:16.3 41.2
iP iS	02:01:38.3 52.4	From Nov.02 at 18:33 to Nov.03 at 21:19 seismogram failed		i	55.8
iP iS	02:51:13.8 39.4	04 iP i	05:09:15.0 25.0	iP i	07:53:02.1 54:02.2
iP iS	04:28:36.9 52.4	i Compression	26.3	i	11.8
iP iS	05:44:01.8 18.8	iP iS	07:22:18.6 24.6	Compression	
iP iS	07:24:21.2 49.4	Compression		14 iP Compression	10:39:49.8 40:04.6
iP iS	08:03:40.9 56.6	iP i	14:31:01.6	iP i	10:51:48.2
iP iS	08:50:27.0 43.6	iP i	21:53:52.0 57.6	Dilatation	
iP iS	14:28:52.1 29:07.6	i Dilatation	54:04.8	iP iP	11:47:14.7 13:18:16.8
iP i	23:57:46.1 58.2	From Nov.05 at 16:03 to Nov.07 at 15:47 seismogram failed		iP	17:47:00.5
iS	58:12.2	07 iP Compression	16:04:07.8	15 iP eS	03:44:50.0 45:07.7
19 iP iS	06:48:57.7 49:40.4	Compression		eP i	17:59:17 37.1
iP iS	11:01:24.7 02:07.2	08 iP iS	11:20:59.3 21:13.9	Compression	
iP iS	13:51:38.3 54.8	Compression		16 eP iS	02:15:35 54.4
iP e eS	16:25:19.7 26:05 14	09 iP Dilatation	03:32:51.2	iP iS	05:53:17.2 27.1
iP iS	17:30:24.4 31:01.6	From Nov.09 at 15:58 to Nov.10 at 15:50 shocks interfered		iP iS	12:31:30.0 38.2
		**		Compression	
		12 eP iS	03:20:21 41.3	iP i	14:38:50.3 39:15.0
		iP iS	14:00:36.2 51.3	iS	21.4
		Dilatation		17 iP iS	08:22:00.5 20.6

**

Nov.11 iP
1969 i
Dilatation

00:27:46.1
28:05.6

Nov.11 iP
1969 iP
iS

06:56:26.6
30.2
57:05.8

Nov.11 iP
1969 Compression

09:00:05.6

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Nov.17 iP 11:52:44.2
1969 Compression

Nov.22 iP 12:49:53.9
1969 Dilatation

iP 12:19:45.3
Dilatation

From Nov.22 at 15:44
to Nov.24 at 14:58
motor failure.

From Nov.17 at 16:55
to Nov.19 at 15:51
station stopped

25 iP 10:37:32.4
iS 49.0
Compression

20 iP 00:16:36.0

iP 18:05:46.7
eS 06:03.2

iP 02:04:09.4

26 iP 12:27:37.0
iS 52.9
Dilatation

iP 10:34:12.5
i 21.7

iP 14:03:05.4
iS 21.6
Dilatation

iP 13:32:13.3
eS 22.8

iP 14:42:27.8

iP 15:03:33.3
iS 51.2

iP 14:46:40.7
iS 54.9
Dilatation

iP 18:16:05.9

iP 21:35:37.1
iS 45.2
Compression

27 iP 07:40:57.9
iS 41:11.8

21 iP 02:01:47.4
iS 54.4

28 iP 06:32:37.7

iP 12:17:43.7
eS 59.7

iP 13:43:52.8
iS 44:08.4
Compression

iP 18:28:44.8
iS 29:01.5

iP 15:00:04.3

iP 19:05:30.9
Compression

iP 15:34:57.4
iS 35:13.0

22 iP 01:19:40.2
iS 58.8

iP 18:41:05.1
i 29.6

eP 02:17:56
eS 18:14.3

iP 20:44:49.6
iS 45:08.0

iP 07:18:02.8
iS 20.0
Compression

29 eP 03:14:48
iS 15:17.5

iP 10:05:53.8

30 iP 13:29:07.9
e 47.8

eP 11:53:59
iS 54:14.2

Dec. Seismograms
failed.
No time mark

iP 12:43:54.9
eS 44:11.7



IMPRESO ORDINARIO

INTERNATIONAL SEISMOLOGICAL
SUMMARY
~~ICL OBSERVATORY~~
~~100 WOOD STREET, BURLINGAME~~

forward to —
6, South Oswald Road,
Edinburgh 9
SCOTLAND



29 JUL 1971

1.

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PROVISIONAL READINGS AT CALAMA

22° 28' 47.5" S 69° 01' 39.0" W h 200 m

Jan.01 1969	Station ped.	Stop-	Jan.03 1969	iP eS	03:38:28.9 49	Feb.10 1969	iP iS	22:58:23.8 43.0
02	iP	00:06:15.3		eP	06:11:36		eP	23:01:44
	iS	27.0		eS	12:09			
	Compression						11	iP 00:29:19.3
	iP	02:12:31.2		iP	07:12:22.6		i	34.1
	iS	45.2		iS	42.3		iS	51.2
	Compression			Dilatation			Compression	
	iP	02:31:55.5		iP	08:06:51.0		iP	02:50:52.8
	eS	32:10		eS	07:06			
	eP	03:27:18		eP	09:32:08		iP	02:57:41.6
	eS	50		iS	27.7		iP	04:50:46.3
	eP	06:44:37		eP	10:08:22		iS	58.0
	eS	50:31		eS	40		Dilatation	
	iP	13:06:52.5		iP	11:39:13.8		eP	06:36:27
	iP	14:49:14.4		i	40:25.7		eP	06:53:54
	iS	47.7		iP	11:53:43.6		eS	60:05
	iP	15:28:23.0		eS	54:08		eP	06:57:34
	iS	32.7		Compression			iP	10:20:37.7
	Dilatation			iP	13:46:10.8		i	45.8
	eP	17:58:58		Compression			iS	58.4
	eP	20:04:28		eP	16:47:45		Compression	
	eS	42		eS	48:00		iP	13:05:19.6
	iP	21:39:36.0		iP	18:45:36.9		iS	52.6
	i	40:08.7		Compression			iP	13:21:39.8
	iS	09.6		iP	18:52:52.7		iP	15:07:56.4
	iP	21:46:04.3		iS	53:25.3		Compression	
	iP	21:51:58.1		i	26.5		eP	15:54:33
	iS	52:10.4		From 3 at 18:52 to 31 station stopped			i	33.2
03	eP	00:02:22	Feb.	From 1 to 10 at 15:04 station stopped			eS	55:38
	eP	01:17:22		10	iP 15:04:32.6		iP	16:21:29.0
	i	23.4		Compression			eS	25
	iS	55.3					Compression	
	eP	01:28:51		eP	20:10:49		iP	17:20:46.8
	iS	29:22.8		iS	11:09.4		iS	21:09.8
	iP	01:58:34.6		eP	22:41:10		iP	18:22:10.0
	iS	54.7		eS	33		iS	20.8
	Dilatation			iP	22:54:41.8		iP	18:46:36.1
	iP	03:38:28.9					iP	20:08:17.8
	eS	49					iS	29.3

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Feb.11 1969	eP 22:35:07	Feb.13 1969	iP 10:31:10.2	Feb.15 1969	iP 00:34:08.5
	eP 23:39:46		iS 21.7		i 41:20.9
	iS 40:01.4		Compression		iS 35.9
12	eP 00:24:03		eP 11:28:49		eP 01:53:45
	iS 34.0		eS 29:08		iS 54:05.6
	eP 01:59:29		iP 15:17:47.0		iP 03:51:34.0
	iP 02:05:51.6		iS 59.4		iS 48.4
	eS 06:13		iP 18:07:46.7		Dilatation
	Compression		iS 08:00.8		iP 04:53:54.1
	iP 02:23:56.0		Compression		iS 54:08.5
	iS 24:17.2		iP 19:12:43.5		i 10.0
	Dilatation		iS 55.2		Dilatation
	iP 04:19:32.0		eP 20:48:50		iP 05:29:54.3
	iP 05:10:48.8	14	iS 49:14.6		iS 30:01.4
	iS 11:11.7		eP 04:06:07		Dilatation
	eP 05:11:03		eS 21		iP 05:50:07.7
	iS 31.3		eP 04:12:41		eS 22
	eP 10:28:53		eS 54		eP 17:58:42
	iS 29:05.4		iP 05:03:46.2		eS 59:01
	eP 14:37:00		iS 36:44.1		eP 18:34:05
	eS 18		iP 05:43:09.4		iS 19.0
	iP 15:24:53.8		iS 22.6		eP 19:51:42
	iS 25:04.5		Compression		iS 57.3
	Dilatation		iP 06:01:41.5		iP 21:55:57.6
	eP 20:02:45		eS 02:06.7		iS 56:27.8
	iS 03:00.6		eP 06:33:35		iP 22:29:40.9
	iP 21:02:57.9		iP 08:12:58.8		iS 53.9
	eS 03:09		eS 13:17.8		Compression
	Compression		eP 08:14:51	16	iP 01:28:40.3
	eP 22:29:17		eS 15:06		Compression
	iS 38.7		iP 11:40:13.4		iP 01:37:21.9
13	iP 00:54:28.2		iS 42.2		iS 41.6
	eS 55:04		eP 12:31:28		Compression
	iP 02:32:35.8		eS 44		iP 01:52:57.8
	iS 48.0		iP 17:14:47.1		iS 53:17.0
	Dilatation		eS 15:09		Compression
	eP 06:10:51		iP 18:16:05.3		iP 04:57:17.3
	eS 11:08		iS 25.9		iS 47.7
	eP 07:55:59		Compression		i 51.1
	eS 56:18		eP 22:17:13		iP 05:14:28.9
			eS 45		iS 40.5
					Dilatation

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Feb.16 1969	eP iS	05:14:54 15:04.6	Feb.19 1969	iP iS	01:33:41.8 58.1	Feb.20 1969	iP iS	15:43:30.4 55.1
	iP eS	05:59:31.4 44		Compression			iP	20:06:57.8
	iP iS	10:18:47.6 19:01.3		iP iS	04:14:58.3 15:12.7	21	iP iS	01:43:53.2 44:14.6
	eP eS	11:44:10 12		Dilatation			Compression	
	iP iS	13:22:05.3 17.3		iP iS	05:07:02.9 25.7		eP eS	05:12:20 35
	Dilatation			Compression			iP e iS	10:23:51.7 24:01 19.8
	iP iS	13:52:51.8 57:25.9		iP i	08:21:03.3 10.7		iP iS	11:19:22.4 40.9
	eP eS	15:02:16 28		Dilatation			Compression	
	iP eS	15:28:55.1 29:22.4		eP	10:00:24		eP iS	14:47:13 28.4
17	iP eS	21:47:16.1 27		iP	15:28:19.8		eP iS	15:30:01 30.0
18	iP iS	06:41:26.5 42.8		eP	15:56:37		iP iS	17:10:52.0 11:02.7
	iP eS	07:44:26.5 49	20	eP	18:05:27 49.4		Dilatation	
	iP iS	09:36:18.6 40.5		iP eS	22:52:43 23:45:58		iP iS	20:53:11.9 43.7
	iP eS	10:46:43.2 59		Dilatation			iP iS	22:29:32.3 59.9
	eP	11:00:58		iP eS	02:08:43.8 09:00	22	iP iS	00:33:41.6 04:58:28.0 45.7
	eP eS	11:17:31 18:03		iP eS	03:37:57.2 38:11		Dilatation	
	iP	13:26:21.6		iP eS	05:48:23.9 40		eP iS	08:19:26 36.2
	iP iS	15:46:03.2 25.8		Compression			iP iS	11:50:42.2 38
	Dilatation			iP	09:16:39.8		Dilatation	
19	iP iS	00:12:56.6 13:22.2		eP iS	09:47:51 48:15.7		eP eS	12:01:43 59
	Compression			iP iS	11:25:22.0 32.2		iP iS	13:38:19.3 22.8
	iP iS	00:52:28.7 53:01.8		Compression			Compression	
	Compression			iP iS	12:07:22.6 43 43.4		iP iS	14:17:52.2 09.0
	iP iS	14:40:34.7 53.5		Compression				

PROVISIONAL READINGS AT CALAMA

Feb. 22 1969	iP 15:18:27.9 eS 50	Feb. 24 1969	iP 03:29:46.2 iS 30:15.1 Dilatation (*) (**) 25 iP 13:03:10.6 iS 26.5	Feb. 27 1969	eP 05:11:45 iP 05:16:43.4 iP 07:28:55.2 iP 12:31:05.2 iS 17.2 Compression iP 21:47:28.3 eS 43 iP 22:14:26.8 iS 38.0 iP 22:43:22.1 eS 40
	iP 17:37:35.1 iS 49.2 eP 17:45:21 eS 39 iP 19:19:19.5 iS 51.6 iP 19:41:00.4 iS 21.8 Compression		iP 14:05:38.7 iS 55.6 eP 19:07:56 eP 21:34:35 26 iP 00:18:51.0 iS 19:14.7 iP 01:58:06.9 iS 30.3 Dilatation iP 06:06:49.3 eS 07:15 eP 07:51:59 eS 52:23 iP 13:58:53.4 eP 13:59:40 eS 58 iP 14:47:42.5 iS 48:23.0 Dilatation iP 18:04:30.9 iS 48.7 eP 19:28:16 i 17.2 i 40.6 i 48.8 iP 23:08:25.3 iS 45.8 Compression		28 iP 01:38:37.2 eS 39:38 eP 03:17:27 eS 59 eP 11:27:03 iS 14.2 eP 12:14:35 iS 50.2 Mar. 01 eP 15:37:30 eS 50 eP 17:49:20 iS 35.8 eP 23:56:30 iS 57:26.2 02 iP 02:56:42.9 iS 57:01.2 iP 07:12:25.8 iS 39.0 Compression eP 10:37:19 iS 51.1 eP 10:45:15 iS 31.2 iP 14:56:40.9 i 49.6
23 1969	iP 07:30:22.5 iS 42.9 eP 07:43:13 eS 45 iP 08:05:15.3 iS 26.8 Compression iP 08:27:53.2 iS 28:12.7 Compression eP 08:59:10 eP 13:40:09 iS 31.6 iP 16:12:27.3 eS 45 iP 19:36:16.3 iS 27.6 Compression iP 19:46:01.2 iS 14.7 Compression				03 iP 00:01:20.8 iS 40.3
24 1969	iP 00:33:45.4 iS 34:04.8 Compression iP 00:42:36.2 iP 01:52:04.2 iS 34.2 Dilatation iP 02:34:42.6 iS 56.8 Dilatation		27 1969		

(*) 25 eP 12:13:21
iS 32.3

(**) 25 iP 12:15:52.2
iS 11.3

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Mar.03 1969	iP 01:52:14.4 iS 34.7 Compression	Mar.04 1969	iP 10:17:44.3 iS 54.3	Mar.06 1969	iP 01:36:46.8 iS 04.2
	iP 03:00:07.8 iS 24.7		iP 14:35:50.7 iS 36:24.2 Dilatation		iP 05:55:59.2 eS 56:17
	iP 04:31:03.6 iS 23.0 Compression		iP 15:05:55.6 iS 06:15.7		eP 06:55:41 iS 56:03:3
	iP 05:54:06.2 iS 17.7 Compression		iP 20:31:35.2 iS 55.1		iP 08:00:22.9 iS 39.6
	iP 06:00:23.5 iS 44.0 Compression	05	eP 00:34:38 iS 52.2		iP 10:01:43.6 iS 02:11.9
	iP 09:36:03.8 iS 21.0		eP 00:36:06 eS 33		eP 11:15:00 iS 16:18.3
	eP 10:30:32 eS 48		iP 00:57:46.5 Dilatation		eP 17:22:08 iS 28.4
	iP 11:12:30.8 iS 52.4		iP 01:50:27.4 i 31.6 i 35.1 iS 51:05.4		iP 18:36:42.3 iS 57.2 iS 58.0
	iP 13:54:49.5 iS 58:41:4		eP 04:47:52		iP 20:15:40.2 iS 16:16.0
	iP 14:55:24.0		iP 08:26:53.0 i 27:02.9 iS 43.3 i 44.8 Dilatation	07	iP 01:15:49.8 eS 16:01.7
	iP 18:05:52.4 iS 06:03.8		iP 10:20:23.1 iS 38.3		iP 03:55:05.5 eS 32
	iP 19:08:17.6		iP 11:33:38.7 iS 52.0		eP 04:08:21 iS 52.5
	iP 20:20:17.5 iS 27.8 Dilatation		iP 14:05:15.8		eP 06:13:07 i 21.2 iS 21.6
	iP 23:43:42.5 eS 44:09		iP 14:15:35.0 eS 54.7		iP 11:35:02.4 e 34.9
	iP 23:55:33.3 iS 56:06.4		iP 15:17:58.7 eS 18:12		iP 21:25:26.4 iS 44.2
04	eP 03:56:01		iP 15:42:15.2 Compression		eP 22:58:42 iP 45.7
	iP 06:57:42.7 iS 58:06.6		iP 17:14:25.9 iS 42:44.9		eP 23:28:13 iP 15.0 e 34.3 e 42
	iP 09:54:53.2 iS 55:03.3	06	iP 00:27:37.7 iS 50.1	08	iP 00:01:25.9
	iP 10:17:44.3 iS 54.3				

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Mar.08	iP	07:16:36.5	Mar.11	eP	05:52:23	Mar.13	iP	01:14:58.3
1969	i	51.1	1969	eS	46	1969	eS	15:12
	i	17:03.6		iP	08:25:46.4		eP	04:01:38
	i	05.0		iS	26:00.9		eS	02:06
	eP	10:51:00		iP	09:44:31.1		eP	04:58:13
	iS	42.1		iS	52.2		iS	35.8
	i	58.4		iP	11:39:45.7		iP	05:12:06.2
	iP	12:38:43.5		eS	40:19		iS	37.2
	iS	59.8		iP	11:40:35.8		i	41.2
	eP	18:09:46		iS	47.3		iP	07:27:30.7
	iP	19:12:20.9		iP	11:42:55.3		eS	28:02
	iS	37.8		iS	53:07.3		iP	08:02:48.4
10	iP	05:26:50.6		Compression			iS	03:09.5
	i	27:02.2		eP	12:56:21		iP	08:44:23.5
	iS	04.0		iS	32.6		eS	42
	iP	05:38:54.3		iP	21:08:07.6		iP	10:03:00.5
	iS	39:17.5		iS	32.8		i	09.8
	iP	08:03:47.0		eP	22:49:18		Compression	
	iS	54.3		iS	38.7		iP	12:43:17.3
	Compression						i	27.8
	eP	12:26:50	12	iP	00:37:32.5		iS	28.8
	e	57		iS	48.8		iP	23:14:28.2
	eS	27:27		iP	00:57:24.8		iS	38.0
	iP	13:01:33.9		iS	45.1		Compression	
	iS	43.6		Dilatation			iP	23:36:58.6
	Compression			iP	05:17:57.5		iS	37:16.4
	iP	13:48:42.6		eS	18:13		i	18.3
	iS	52.2		iP	07:57:15.0		Dilatation	
	Compression			Compression		14	eP	03:17:13
	iP	15:08:45.6		iP	08:02:05.8		eS	36
	Compression			iS	19.5		iP	04:09:46.5
	iP	21:10:06.1		iP	09:14:16.2		iS	10:05.3
	iS	18.3		iS	50.0		iP	06:19:08.8
	iP	22:29:24.3		iP	09:31:19.9		eS	28
	i	40.6		iS	36.8		Compression	
	iS	42.8		iP	10:44:48.2		iP	06:43:49.9
	iP	22:32:57.1		iS	45:09.2		i	58.3
	eS	33:19		Compression			iS	44:00.8
11	iP	01:55:55.3		iP	17:19:07.2		Dilatation	
	Dilatation			iS	18.1		eP	09:54:30
	iP	04:36:39.7		iP	19:17:12.6		eP	14:40:15
	i	47.0		eS	33		i	41.7
	iS	49.5		Compression			iS	48.9
	Dilatation							

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Mar.14 1969	eP iS	15:58:14 40.7	Mar.17 1969	iP eS	02:22:27.1 47	Mar.19 1969	iP i	02:21:12.7 19.3
	eP	17:48:19		eP	03:06:26		i	22.1
	eP	23:08:21		i	34.4		i	29.2
	eS	46		i	41.5		iS	51.9
	iP	23:29:49.7		eP	07:40:38		i	22:03.6
	iS	30:02.7		iP	08:27:23.6		i	44.5
	Compression			iS	56.3		iP	03:38:25.8
15	iP	02:15:27.8		Compression			iS	46.0
	iS	16:01.2		eP	08:55:30		iP	04:14:30.3
	iP	03:40:17.3		iS	45.2		i	32.7
	iS	27.3		iP	11:41:54.8		i	37.7
	iP	09:14:40.0		i	56.7		iS	49.0
	iS	59.1		iS	42:07.1		iP	06:25:04.3
	Compression			iS	09.4		iS	17.2
	iP	13:06:14.8		iP	15:02:14.2		iP	08:44:07.7
	eS	33		e	24		iS	23.0
	eP	17:01:03		i	25.0		eP	12:19:05
	iS	20.8		iP	19:29:02.5		iS	29.9
	iP	20:55:51.7		iS	14.5		eP	23:17:56
16	iP	00:51:37.0		Compression			eS	52
	eS	52:10		iP	23:44:07.7	20	iP	00:41:38.6
	iP	04:41:13.0		eS	25		iS	50.8
	Compression		18	eP	03:20:30		iP	02:10:32.6
	iP	13:11:04.8		iS	46.3		eP	04:47:37
	eS	20		iP	04:25:15.3		i	48.7
	i	24.8		i	22.6		iS	48:08.9
	iP	13:35:43.9		i	57.0		iP	05:35:46.4
	iS	55:00.2		iP	05:39:31.9		iS	37:10.9
	Compression			eS	57		Dilatation	
	iP	14:35:59.2		iP	09:07:54.6		iP	10:00:55.1
	eS	36:21		Compression			iS	01:15.9
	Dilatation			iP	13:48:33.0		Compression	
	eP	19:33:14		Compression		21	iP	03:58:43.2
	iS	32.6		iP	21:10:48.0		iS	59:02.7
	iP	22:57:03.2		iS	11:07.2		Dilatation	
	i	10.0		Compression			eP	04:33:15
	iS	14.9		iP	21:19:42.2		e	23
	Dilatation			eS	20:13		e	26
	eP	23:37:09		eP	22:35:10		i	34:02.8
	e	36		eS	22.2		iP	06:09:07.9
	iS	41.6					eS	41
							iP	06:24:44.7
							iS	58.5
							Compression	

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Mar. 21 1969	eP e i	11:17:51 18:38 40.9	Mar. 23 1969	eP eS i	01:04:59 05:20 22.3	Mar. 24 1969	eP e e	22:06:17 22 56
	eP eS i	12:34:15 35 35.3		eP eS	01:11:54 12:47		iP iS	22:46:53.1 47:04.2
	iP iS	13:41:57.2 42:30.2		iP eS	03:48:42.5 49:22	25	iP eS i	00:25:57.2 26:09 10.6
	eP e iS	14:20:51 21:57 21.3		iP eS	08:02:19.6 48		iP iS	01:01:54.7 02:15.3
	iP iS i	15:13:30.7 42.6 43.4	24	iP e iS	02:20:17.5 06:12:03.7 20:17 17.8		Compression	
	Dilatation			iP eS	06:39:09.9 42		iP iS	01:18:50.8 19:02.2
	iP i i iS	15:37:11.1 16.8 37.7 42.2		iP e i	07:48:22.8 38 48.3		iP iS	02:24:18.2 28.3
	iP i iS	16:37:37.4 42.8 54.2		iP eS i	08:17:34.6 38.5 49.0		eP i i	04:34:35 39.7 35:16.7
	eP eP	17:16:42 21:03:07		iP iS	09:42:35.0 46.8		iS	29.1
22	eP	00:10:34		Dilatation			eP i iS	05:52:03 03.8 27.7
	iP iS	02:06:25.3 37.2		iP i iS	11:47:17.6 28.0 29.0		iP iS	08:16:20.8 36.2
	Dilatation			iP iS	15:33:03.7 35.0		iP eS	09:28:31.8 29:04
	iP iS	04:23:30.2 24:05.7		iP iS	16:13:36.7 10.2		iP iS	10:19:27.8 37.8
	iP Dilatation	08:25:10.9		iP iS	16:48:29 49:04.8		Dilatation	
	eP i e	09:37:31 32.1 46		eP eS	18:11:08.6 33		iP iS	11:17:42.7 58.5
	iP iS	15:18:35.2 54.9		iP eS	20:34:04.4 50		Compression	
	Compression			iP e i	21:39:16.8 41 47.8		iP iS	16:37:19.7 40.6
	eP eS	18:30:06 43		iP eS	20:22:28.8 54.6		iP eS	21:08:31.2 09:00
	iP eS i	19:20:11.5 41 42.8		iP e i	21:24:35		eP	21:24:35
						26	eP e	01:16:48 49

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Mar. 26 1969	iP	02:09:36.3	Mar. 28 1969	iP	18:02:04.8	Mar. 30 1969	iP	09:51:32.0	
	eS	10:30		e	08		i	52:48.0	
	i	11.1		iS	42.0		i	33.2	
				i	47.5		i	57.7	
	iP	03:28:52.8		eP	18:41:22		iP	12:30:36.5	
	iS	29:10.6		e	29		eS	54	
	eP	05:44:13							
	i	15.9		iP	21:02:51.8		iP	13:16:50.8	
	iS	37.3		eS	03:10		iS	17:12.7	
	i	40.5					Compression		
	iP	11:11:25.6	29	eP	02:06:02		iP	13:55:09.5	
	iS	38.2		e	15		iS	42.6	
	Compression			e	31		Dilatation		
				eS	36				
	iP	11:32:40					iP	16:58:04.9	
				eP	03:40:33		iS	16.2	
	iP	12:24:42.6		i	34.5		Dilatation		
	i	52.9		eS	48				
	iS	25:06.5		i	49.6				
	Dilatation						iP	18:00:16.3	
				iP	04:42:00.8		iS	19.3	
	eP	14:23:02		i	25.8				
28	eP	01:29:06		iS	33.0		31	iP	20:21:30.1
	eS	27					Dilatation		
				iP	08:49:53.4		eP	20:32:11	
	iP	01:54:23.9		iS	50:05.6		iS	23.7	
	iS	36.9							
	eP	04:36:33		iP	10:09:31.1		iP	22:45:29.9	
	eS	53		i	38.6		iS	43.0	
				iS	10:01:7		Dilatation		
	iP	05:05:06.8		i	06.8				
	eS	19		Compression					
				iP	20:58:19.3	Apr. 01	eP	00:35:44	
	iP	06:15:25.7		eS	52		iS	59.3	
	e	16:10							
				iP	23:50:45.1		iP	01:26:53.2	
	iP	08:33:32.7		iS	56.8		iS	27:15.9	
	eS	34:37.2							
				30	iP	01:01:53.5	iP	05:02:25.7	
	iP	11:12:13.0		iS	02:23.6		eS	41	
	Compression								
				iP	01:44:14.6		iP	09:38:51.5	
	iP	11:52:28.8		iS	25.2		eS	39:06	
	iS	49.3							
	Compression			iP	02:25:25.9		eP	10:30:42	
							iS	31:01.5	
	iP	12:10:43.3		iP	02:46:41.3		iP	12:49:09.9	
	iS	11:03.8		i	44.7		iS	30.6	
	i	04.8		Dilatation			Compression		
	iP	16:16:44.1		eP	03:49:19		iP	12:52:47.0	
	iS	17:05.0		eS	53		iS	57.9	
							Compression		
	iP	17:01:12.8		iP	09:08:33.3				
	eS	38		iS	59.5		iP	14:37:33.7	
	e	41					eS	38:07.6	
	Compression			iP	09:39:35.9				
				iS	54.9				
				Compression					

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Apr.01	iP	16:14:55.3	Apr.02	eP	23:52:31	Apr.04	eP	01:01:45
	iS	56:19.8	1969	eS	59	1969	eS	02:00
	Compression							
	eP	21:05:06	03	eP	01:24:30		eP	03:25:18
	eS	39		eS	47		eP	04:57:50
	eP	21:54:56		eP	01:32:51		eS	58:20
	eS	55:06		iS	33:07.8		eP	05:08:35
02	iP	00:53:53.8		eP	02:17:24		eS	09:07
	iS	54:06.4		eS	59		eP	06:52:29
	Dilatation			eP	02:45:16		eP	07:22:10
	eP	02:01:52		eS	32		eP	07:23:56
	eS	02:25		eP	03:45:51		eS	24:15
	eP	03:55:03		eS	46:17		eP	08:46:17
	eS	36		eP	04:22:43		eS	47
	eP	07:25:19		eS	54		eP	10:12:16
	eS	38		iP	05:27:27.0		eS	44
	eP	08:05:54		eS	47		eP	10:16:43
	eS	06:12		Compression			eP	10:32:22
	eP	08:19:22		eP	05:30:29		i	22.5
	eS	47		iS	42.6		eS	35
	eP	09:57:27		eP	08:16:03		eP	11:19:02
	eS	47		eS	21		iS	18.1
	eP	10:27:58		iP	08:17:43.4		eP	12:23:10
	eS	28:10		iS	18:03.5		eS	19
	eP	10:46:13		Compression			eP	13:21:50
	eS	36		eP	10:32:29		eS	22:02
	eP	11:43:55		eS	49		eP	14:19:46
	iS	44:19.0		eP	15:10:31		eP	14:42:54
	eP	13:14:56		eP	16:48:01		eS	43:13
	eS	15:11		eS	35		eP	14:53:36
	eP	14:02:45		eP	20:26:44		eS	58
	eS	57		eS	56		eP	15:39:04
	iP	18:31.20.1		eP	21:41:52		eS	18
	iS	39.5		eS	42:12		eP	18:40:30
	Compression			eP	22:32:53		eS	41:18
	eP	19:13:22		eS	33:25		eP	19:26:29
	eS	14:12		eP	23:51:35		eS	47
	eP	21:05:14		eS	42		eP	20:46:36
	eS	39	04	eP	00:28:03		eS	52
	eP	22:55:49		iS	13.4			
	eS	56:20						

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Apr.04 1969	eP eS	22:04:01.6 14	Apr.06 1969	eP eS	00:31:26 39	Apr.07 1969	eP eS	11:01:08 20
	Dilatation			eP	01:24.05		eP	11:55:13
	eP	23:43:46		iP	01:45:24.0		eS	29
	eS	44:09		iS	37.1		eP	13:23:30
05	eP	01:08:18		Compression			eS	45
	eS	09:11		iP	05:31:42.5		eP	13:33:44
	iP	02:41:10.5		eS	59		eS	34:15
	iS	33.6		Compression			eP	14:06:58
	Compression			eP	07:58:59		eS	07:08
	eP	02:49:13		eS	32		eP	17:13:29.4
	eS	31		eP	11:29:59		eS	36
	eP	06:11:52		iS	30:21.3		eP	17:20:32
	eS	12:03		eP	12:30:03		eS	50
	eP	06:18:35.4		eS	34		eP	19:13:01.9
	iS	19:07.2		eP	12:34:14		e	04
	eP	07:44:05		eS	48		eS	07
	eS	19		eP	15:58:11		eP	21:46:07.6
	eP	08:02:08		eS	33		iS	26.3
	eS	25		Dilatation				
	eP	10:34:02		eP	18:32:42	08	eP	00:07:41
	iS	17.6		eS	33:01		eS	55
	eP	11:10:26		eP	19:49:23		eP	05:03:50
	eS	44		eS	41		eS	04:06
	eP	12:31:38		eP	20:32:09		eP	05:10:09
	eP	14:19:10		eP	21:04:46		eS	21
	eS	26		eS	57		eP	06:32:01
	eP	14:24:31	07	eP	00:41:58		iS	16.4
	eS	53		eS	42:26		eP	07:29:32
	iP	17:24:04.2		eP	01:25:23		eS	46
	eS	17		eS	55		eP	07:35:23
	eP	18:05:15		iP	01:51:17.1		eS	36
	eS	26		iS	33.0		eP	07:51:45
	Compression			Compression			eS	58
	eP	18:27:10		iP	05:08:06.4		eP	09:11:13
	eS	53		iS	26.3		eS	27
	Compression			Compression				
	eP	18:37:12		eP	08:31:21		eP	11:53:45
	eS	33		eS	37		eS	53
	eP	20:26:22		eP	10:16:13		eP	16:33:33
	eS	43		eS	26		eS	45

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Apr.08	eP	18:23:31	Apr.10	eP	23:46:20.7	Apr.12	eP	06:09:38
1969	eS	25:13	1969	iS	33.0	1969	eS	53
				Compression				
	eP	19:01:10		eP	23:49:56		eP	07:32:47
	e	13		eS	50:12		eS	33:02
	eP	19:33:00					eP	13:32:32
	eS	32	11	eP	00:00:38		eS	38
				eS	00:58			
	eP	20:07:33		eP	00:39:36		eP	18:11:00
	eS	58		iS	40:01.0		eS	15
	eP	21:07:21		eP	04:09:18		eP	18:11:56
	iS	15.0		eS	51		eS	12:14
	eP	22:06:37		eP	04:11:37		eP	19:01:40
	eS	57		eS	12:11		e	43
09	eP	00:28:15		eP	05:19:47.7		eP	22:56:03
	eS	27		iS	20:03.4		eS	13
	eP	01:32:08		eP	06:19:32		eP	23:48:02
	eS	21		eS	47		eS	23
	eP	01:42:15		eP	08:42:09	13	eP	01:14:01
	eS	42		eS	33		eS	13
	eP	03:17:08		eP	09:00:49		eP	01:44:16
	eS	28		eS	01:00		eS	45:26
	eP	04:07:39		eP	14:29:09		eP	02:28:38
	eS	53		eS	22		i	41.4
	eP	10:46:10		eP	23:40:02		iS	29:00.7
	eS	44		eS	13		eP	03:27:57.7
	eP	12:07:00		eP	23:56:14		eS	28:11
	eS	23		i	16.9		Compression	
	eP	12:55:00		eS	48		eP	04:45:53
	eS	11					eS	46:13
	eP	19:31:23	12	eP	00:22:54		eP	05:37:51
	eS	41		eS	23:08		eS	38:24
	eP	22:41:23		eP	00:26:41		iP	06:01:07.2
	eS	43		eS	27:06		iS	24.3
10	eP	00:42:53		eP	01:32:46		Dilatation	
				eS	56		eP	07:07:37
	iP	19:35:40.8		eP	01:45:19		eS	55
	iS	52.0		eS	31		eP	09:43:27
	Dilatation			eP	04:03:28		eS	45
	eP	19:58:53		i	30.5	13	eP	10:22:52
	eS	59:05		eS	04:00		eP	10:35:46
	eP	20:18:42		eP	05:52:36		eS	36:07
	eS	59		eS	53:08			

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Date	Type	Time	Date	Type	Time	Date	Type	Time
Apr. 13 1969	eP	12:18:18	Apr. 14 1969	eP	07:39:31	Apr. 15 1969	eP	13:46:04.2
	eS	38		eS	42		eS	23
	eP	13:53:55		eP	08:28:08		iP	14:29:00.1
	eS	54:18		eS	25		iS	26.8
	eP	16:48:18		iP	10:56:16.3		iP	19:14:25.0
	eS	28		eS	26		eS	30
	eP	17:25:43		Compression			Compression	
	eS	53		eP	14:32:23		iP	19:38:16.5
	eP	17:30:06		eP	15:30:38		eS	23
	eS	23		i	45.5		Compression	
	eP	18:37:03		eS	31:07		eP	23:32:46
	iS	51.3		eP	18:38:42		eS	33:02
	iP	19:10:48.9		eS	39:04	16	iP	00:52:39.9
	eS	11:04		eP	18:55:04		Compression	
	Compression			eS	08		iP	09:29:24.4
	eP	23:01:28		iP	19:48:25.1		eS	30:44
	eS	37		eS	28	17	eP	01:04:28
	eP	23:52:40		Compression			iP	01:18:39.0
14	eP	00:21:26		iP	21:43:56.8		iS	19:00.6
	eP	00:51:44		eS	44:08		Compression	
	eP	01:27:56		Compression			eP	02:44:09
	eS	28:09		iP	23:18:16.0		eS	28
	eP	02:53:59		eS	38		eP	04:00:39
	eS	54:13		Compression			eS	59
	iP	03:54:52.6	15	eP	01:48:02		eP	05:13:26
	eS	55:00		eS	21		eS	44
	Dilatation			eP	06:55:46		iP	10:50:08.1
	iP	04:15:03.9		eS	56:15		iS	20.2
	iS	23.8		Compression			Dilatation	
	Dilatation			eP	07:11:28		iP	11:06:27.6
	eP	06:25:24		eS	45		iS	40.9
	eS	40		iP	07:13:26.2		Compression	
	eP	06:47:12		eS	14:50		eP	11:51:25
	eS	31		iP	07:13:26.2		eP	12:43:35
	eP	07:04:25		eS	14:02		iP	13:40:52.1
	eS	45		eP	08:13:48		iS	41:25.8
	eP	07:15:53		eS	14:02		Compression	
	eS	16:09		eP	08:23:51		eP	13:58:32
	eP	07:24:05		eS	24:27		eS	48
	eS	17		eP	11:40:51		iP	14:27:07.4
				eS	41:03		iS	17.9
				eP	12:04:46		Dilatation	

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Apr.17 1969	eP 16:05:07 eS 36	Apr.19 1969	iP 02:35:47.3 eS 36:02 Compression	Apr.20 1969	iP 18:50:40.1 i 43.6 iS 46.5 Compression
	eP 16:14:12 eS 44		iP 04:28:24.9 iS 30:04.1		iP 22:21:12.1 eS 31
	iP 17:38:47.9 eS 39:33		iP 06:14:46.2 eS 16:13 Dilatation		iP 23:18:28.0 iS 43.6
	iP 21:26:37.1 eS 50		eP 08:14:13 iS 29.6	21 1969	eP 02:26:55 eP 03:33:39 eS 34:03
	eP 22:08:00 iS 11.0		eP 12:14:53 eS 15:20		eP 04:57:28 eS 42
	iP 22:38:51.3 iS 39:20.3		eP 12:46:24 eS 50		iP 05:24:54.3 iS 25:10.9
18 1969	eP 00:44:31 eP 00:48:34 eS 46		eP 13:48:11 eP 15:07:17 eP 17:36:35		iP 07:02:25.4 iS 55.4
	eP 00:51:50 eS 52:12		iP 18:24:00.5 eS 22 Compression		eP 07:32:38 eS 52
	eP 06:02:18 eS 32	20 1969	iP 01:05:05.0 Compression		eP 08:58:25 e 42 eS 59:23
	eP 10:23:38 iS 50.3		iP 02:17:06.1 eS 26		iP 10:31:19.9 eS 40
	eP 12:53:23 i 42.4 eS 52		eP 04:32:46 eS 34:14		eP 10:51:10 eS 29
	iP 14:03:32.5 eS 41		eP 08:26:30.4 iS 51.6		eP 12:49:38 eS 50:47
	iP 14:50:48.4 iS 51:01.6		eP 08:59:55 iS 00:04.8		eP 13:58:46 iS 59:34.1
	eP 17:59:46 eS 35		eP 10:17:57 eS 18:47		iP 14:29:35.4 eS 58
	eP 18:33:26 iS 46.3		iP 11:17:38.3 iS 18:02.1		eP 14:56:44 eS 57:01
	eP 19:47:28 eP 20:16:35		iP 13:14:25.5 iS 53.8		eP 15:53:32 eS 51
19 1969	iP 01:52:37.9 iS 09.6 Compression		iP 17:59:17.5 eS 29 Compression		iP 23:24:58.7 iS 25:10.3 Dilatation
	eP 02:25:18 eS 37				

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Apr. 22 1969	eP eS	03:03:48 04:02	Apr. 24 1969	eP iP iS	19:19:04 19:27:19.3 31.1	Apr. 25 1969	eP iS	16:53:56 54:16.3
	eP eS	03:21:51.6 22:28		iP Compression	19:42:09.6		eP iS	16:55:38 50.5
	eP eS	04:05:34 54		iP iS	22:52:16.8 47.6		eP eS	17:00:13 24
	iP iS	04:46:24.8 45.2		eP eS	23:00:23 43		eP eS	20:05:33 06:02
	eP iS	05:02:19 52.7	25	iP eS Dilatation	00:08:44.0 09:01		eP i eS	20:41:09 19.2 42:03
	eP eS	05:06:41 59		iP eS Compression	02:13:26.5 40	26	eP iS	00:14:43 15:15.3
	iP iS	06:19:50.2 02.9		eP eS	03:26:59 27:12		eP iS	04:28:19 38.0
	eP	06:39:45		eP eS	03:40:51		iP iS Dilatation	06:00:50.7 07:45:43.2 53.8
	eP eS	08:11:30 41		eP eS	06:29:51 30:12		eP eS	08:41:14 44
	iP eS Dilatation	09:37:47.1 38:13		iP iS Compression	06:55:49.5 56:01.5		iP eS	08:55:30.8 57:56
	iP iS Compression	09:56:29.0 42.9		iP Compression	07:12:35.0		eP eS	09:36:28 38:19
	eP eS	11:05:29 39		eP eS	08:12:12 24		eP eS	11:07:16.3 23
	eP eS	11:27:11 33		eP eS	10:36:34 49		eP eS	12:02:14 04:08
	iP eS	13:31:44.2 32:16		eP	12:35:16		eP iS	13:11:21 56.7
	eP eS	14:22:49 23:06		eP iS	13:18:40 50.7		iP eS	13:59:33.8 00:04
	iP iS Dilatation	15:25:44.5 26:18.0		iP iS Compression	14:18:09.5 25.5		iP eS	14:16:16.7 34
	eP eS	11:00:10 28		eP eS	15:34:46 35:12		eP	14:42:20
	iP iS Dilatation	19:55:00.5 14.0		iP iS Compression	15:36:46.5 37:01.7		eP iS	16:51:05 35.5
	eP eS	20:49:11 44					iP iS	19:07:29.8 48.4

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Apr. 30 1969	eP i i eS	10:30:09 19.1 32.0 42	May. 02 1969	iP iS Compression	00:21:58.0 22:19.4	May. 03 1969	eP eP eS	09:07:27 12:03:13 34
	eP eS	12:39:11 27		eP eP iS	04:00:12 04:15:40 54.8		iP eS Compression	13:19:19.8 38 Compression
	eP iS	14:07:33 46.5		eP eP	05:23:47 05:32:39		iP iS	15:06:31.0 51.0
	iP eS	15:01:19.1 02:04		iP eS Dilatation	06:55:57.0 56:09		iP eS	16:30:51.7 31:24
	iP eS	16:10:39.2 44		eP eS	11:15:54 16:28		iP iS	21:16:05.2 23.4
	iP eS	17:46:29.6 41		iP Dilatation	12:39:07.0		iP eS	21:47:06.3 18
	eP eS	17:56:10 33		eP eS	17:46:58 47:18	04	eP iS	23:47:27 47.8
	eP eS	19:14:42 54		eP iS	18:04:01 19.7		iP eS	00:45:15.0 25
	iP iS Compression	19:46:49.5 47:01.2 Compression		eP eS	18:08:04 22		iP iS	01:54:54.2 55:26.8
May. 01	iP eS	00:39:28.5 40		iP iS Dilatation	18:56:39.8 46.3		eP iS	10:16:58 17:13.5
	eP iS	02:36:09 20.4		eP eS	21:35:04 21:45:08 45:20		eP iS	11:28:38 41.5
	iP eS	03:36:27.3 49		eP eS	00:19:10 24		iP iS	15:14:54.6 15:06.2
	iP iS Dilatation	03:47:48.6 48:08.8 Dilatation	03	eP eS	01:41:55 42:24		iP iS Dilatation	15:33:43.8 34:00.6 Dilatation
	iP iS Compression	14:47:15.1 27.9 Compression		eP eS	02:14:34.8 Compression		iP iS	15:46:54.5 47:09.0
	eP eP eS	14:49:28 16:11:46 12:17		eP iP Dilatation	03:44:03 04:13:19.8 Dilatation		eP iS	18:54:19 34.6
	eP iP iS	16:35:21 17:00:57.4 01:09.8		eP eP	04:21:56 08:21:18		iP iS	19:57:23.5 37.8
	iP iS	22:20:00.0 19.2		eS	47		eP iP iS Compression	23:54:27 00:01:23.7 35.3 Compression

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Date	Time	Type	Value	Date	Time	Type	Value	Date	Time	Type	Value
May.05 1969	00:45:49.4	iP		May.06 1969	09:13:13	eP		May.08 1969	09:20:43.0	iP	
	46:03	eS			51	eS			56	eS	
		Compression				iP 09:25:39.4				iP 11:43:51.3	
	04:22:15.6	iP				iS 57.3				Dilatation	
	28.4	iS				Compression				eP 12:24:20	
		eP 05:50:56				eP 09:43:43				eS 54.7	
		eS 51:11				eS 13				eP 13:43:40	
	08:11:50	eP				iP 10:24:55.7				iP 15:20:03.4	
	12:08	eS				iS 25:08.3				iS 56.6	
		eP 13:54:40				iP 12:56:11.4				eP 16:47:32	
		eS 56:56				iS 23.8				eP 17:46:48	
	14:21:46	eP				iP 15:01:31.7				eS 47:07	
		iP 15:53:33.6				eS 42				eP 22:42:59	
		iS 54.9				Compression				eS 43:22	
		Compression				iP 23:10:34.0				eP 02:05:14.6	
	16:12:54.5	iP		07	04:01:40	eP				eS 27	
	13:16	eS				eP 04:51:16				iP 03:04:18.9	
		eP 16:38:46				eS 28				iS 40.2	
		eS 59				iP 04:58:02.4				eP 06:40:24	
	18:19:12.8	iP				eS 20				eS 41:07	
	32.1	iS				Compression				eP 08:25:12	
		Compression				iP 05:21:40.9				eP 09:45:13	
	19:44:40.7	iP				eS 56				iS 39.0	
	56.1	iS				Dilatation				iP 11:25:25.2	
		Dilatation				iP 06:09:16.3				eS 44	
	19:48:08	eP				eS 39				eP 11:43:43	
	24.8	iS				Compression				eS 53	
		iP 22:07:47.1				eP 10:05:18				eP 14:43:01	
		Dilatation				eP 12:25:10				eS 44:04	
	23:09:32.3	iP				eS 22				iP 15:34:56.9	
	45	eS				iP 12:40:30.6				iP 16:55:08.1	
		Dilatation				eS 48				eS 38	
06	04:05:55	eP				iP 15:42:51.2				Dilatation	
	06:15.3	iS				iS 43:09.8				eP 17:21:46	
		eP 07:11:41				Compression				eS 22:02	
		eS 53				iP 18:00:03.7				eP 17:22:27	
	07:28:37.9	iP				iS 26.4				eS 44	
	50.7	iS				Compression				iP 17:59:39.2	
		Compression				iP 19:30:10.9				eS 58	
	07:32:04	eP				iS 30.0					
	17	eS				Compression					

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Date	Type	Time	Date	Type	Time	Date	Type	Time
May.09 1969	eP	23:05:09	May.11 1969	eP	00:47:29	May.12 1969	eP	23:40:56
	eS			eS	50		eS	41:21
	iP	00:15:09.3		iP	02:29:57.5		iP	01:43:57.2
	iS	21.7		eS	30:08		eS	44:28
	eP	00:36:48		Dilatation			iP	06:11:19.2
	eS	37:21		eP	05:16:52		eS	31
	iP	02:05:54.6		iS	17:16.5		eP	10:34:51
	eS	06:05		iP	10:27:53.5		eS	35:06
	Dilatation			Compression			eP	14:24:05
	eP	02:20:15		eP	10:55:29		eP	14:31:02
	eP	04:13:45		eS	40		eS	53
	iS	55.2		eP	12:30:50		eP	14:48:58
	iP	04:50:51.5		eS	31:13		i	49:02.3
	iS	51:05.7		iP	14:26:10.8		iP	16:20:12.6
	Compression			iS	22.5		e	54
	eP	05:36:51		iP	19:49:45.3		eS	21:12
	eS	37:06		iS	50:05.6		eP	16:37:03
	eP	07:11:00		Compression			eS	55
	eS	18		iP	20:30:19.8		iP	19:00:15.6
	eP	08:15:51		iS	41.4		eS	27
	eS	16:12		iP	21:18:56.2		Dilatation	
	iP	08:46:59.6		iS	19:13.6		eP	23:40:48
	iS	47:18.2		12 eP	00:29:45		iP	23:55:44.5
	iP	10:31:21.2		iS	52.2		iS	56:03.4
	iS	31.8		eP	00:30:18		Dilatation	
	iP	10:53:38.2		iS	37.0		14 iP	00:28:12.8
	eS	58		iP	02:46:41.2		iS	39.1
	eP	11:38:24		iS	56.3		15 iP	02:53:40.1
	iP	12:13:17.5		iP	04:47:27.3		eS	52
	eS	27		eS	38		eP	02:57:25
	iP	13:57:29.7		eP	05:44:07		eS	37
	eS	58:13		eS	26		iP	03:25:18.5
	eP	18:32:57		eP	08:00:59		eP	08:04:30
	eS	33:20		eS	01:17		eS	48
	iP	18:51:03.0		eP	08:44:17		eP	08:36:47
	iS	07.0		eS	42		eS	37:09
	Compression			eP	19:30:35		iP	08:38:12.0
	iP	23:43:15.2		iP	22:50:22.1		iS	28.4
	eS	32		eS	34			
	Dilatation							

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May.15 1969	iP 12:36:29.0 iS 48.7 Compression iP 15:39:53.1 iS 40:09.7 Dilatation iP 20:37:08.4 iS 20.5 eP 20:51:01 eP 20:56:59 eS 57:29 iP 21:08:07.7 iS 24.5 eP 22:57:23	May.16 1969	eP 18:53:14 iS 32.0 iP 19:05:31.7 Compression eP 19:31:35 eS 32:07 iP 22:41:15.0 iS 27.5 Compression iP 22:51:26.5 iS 48.0 Dilatation eP 23:17:13 eS 27	May.17 1969	eP 16:35:06.4 eS 26 iP 19:52:30.0 eS 59 Dilatation iP 23:35:41.2 eS 36:15 Dilatation 18 iP 02:17:59.6 eS 18:21 Compression iP 03:48:01.5 iS 13.6 eP 07:53:25 iS 35.0 eP 08:28:55 eS 29:23 eP 10:40:27 eS 41:03 iP 15:37:34.7 iS 51.8 eP 16:15:25 eS 39 iP 19:14:07.6 iS 24.5 Dilatation eP 19:47:15 eS 42 eP 22:34:46 eS 58 19 eP 03:56:36 eS 49 eP 11:13:09 eS 30 eP 11:41:31 iS 04.8 eP 13:32:08 eS 57 iP 15:05:00.5 iS 14.5 Compression
16	eP 02:21:16 iS 35.0 iP 02:24:26.6 eS 44 iP 03:58:52.4 iS 59:08.0 Compression iP 04:26:55.4 iS 27:08.1 Compression iP 05:20:32.9 iS 21:07.7 iP 10:45:06.6 eS 19 Compression iP 12:57:51.6 eS 58:10 Compression iP 13:39:21.9 eS 41 Compression iP 15:42:58.2 eS 43:32 eP 17:08:33 eS 56 iP 17:49:03.0 iS 14.0	17	eP 03:18:54 iS 19:07.7 iP 04:10:04.6 iS 24.0 iP 04:32:50.8 iS 33:09.8 eP 04:33:29 iS 45.8 eP 05:12:38 eS 50 iP 05:43:52.8 eS 44:13 Compression eP 06:40:37 eS 41:20 eP 08:00:54 eS 01:07 eP 09:25:48 iS 26:02.5 eP 13:19:08 eS 29 iP 15:23:30.0 eS 24:27 iP 16:01:56.5 iS 02:26.6 Dilatation		

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May.19 1969	eP 18:30:21	May.20 1969	iP 19:47:24.4	May.22 1969	iP 00:48:30.6
	eP 18:59:24		iS 39.2		eS 43
	eS 47		Dilatation		Dilatation
	iP 19:07:41.6		iP 20:33:38.0		iP 05:14:26.6
	iS 08:01.5		iS 49.8		iS 46.4
	Compression		Dilatation		iP 07:41:53.2
	iP 21:24:52.2		eP 21:51:27		eS 42:13
	iS 25:09.0		iS 46.2		eP 08:09:26
	Compression	21	iP 02:53:29.3		iS 43.3
	iP 21:25:57.0		iS 43.1		eP 10:49:24
	iS 26:13.0		Dilatation		iS 42.0
	Compression		iP 04:27:23.4		iP 10:51:34.0
	iP 21:44:36.0		iS 44.2		iS 45.2
	iS 53.2		Dilatation		Dilatation
	Compression		eP 04:44:12		eP 11:27:13
20	eP 01:20:18		iP 05:44:31.1		iS 25.6
	iS 30.6		iS 46.5		eP 12:39:15
	eP 01:28:21		Compression		iS 49.2
	eS 34		iP 06:42:05.0		eP 18:29:05
	iP 02:22:25.6		iS 24.7		eP 20:22:00
	iS 47.5		Compression		eS 19
	Compression		eP 10:10:59		iP 21:12:20.0
	eP 04:31:49		iS 11:19,4		iS 32.2
	eS 32:10		eP 11:14:45		eP 21:41:30
	eP 04:48:50		eS 15:08		eS 42:04
	eS 49:05		eP 12:48:31		
	eP 08:01:53		iS 44.2	23	iP 03:04:23.0
	eS 02:15		eP 13:18:59		eS 43
	iP 12:44:11.0		eS 19:22		Compression
	iS 24.2		iP 13:54:50.0		iP 03:21:07.6
	Compression		iS 55:07.8		iS 28.3
	iP 13:50:24.0		Compression		Compression
	eP 14:27:03		iP 15:19:16.4		iP 04:18:14.4
	eS 35		iS 35.3		eS 32
	eP 16:02:58		Compression		iP 05:50:12.3
	iS 03:16.1		iP 18:40:21.8		iS 27.2
	eP 17:12:25		eS 32		Dilatation
	iP 18:53:46.2		Dilatation		eP 06:16:23.4
	iS 52.1		eP 19:33:35		iS 55.0
	Compression		eP 19:40:30		eP 08:32:29
			iS 44.2		eS 50

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May. 23 1969	iP Dilatation	15:03:23.7	May. 24 1969	eP eS	17:39:49 40:09	May. 25 1969	iP iS	21:58:46.0 59.8
	iP eS	15:45:17.8 30		eP eS	17:45:16 40		eP iS	23:51:09 22.2
	iP iS	18:13:53.0 14:06.0		iP eS	18:04:38.6 51	26	iP iS	00:46:37.8 54.0
24	eP eS	03:10:05 22		eP	20:41:56		Compression	
	eP eS	05:10:21 34		eP eS	23:14:57 15:29		eP iS	00:57:35 49.5
	eP eS	06:46:07 29	(*) 25	eP eS	04:22:45 23:50		iP iS	02:58:03.6 59:17.4
	eP eS	07:04:16 28		eP iS	04:52:58 53:16.0		eP eS	05:41:15 33
	eP eS	08:28:55 29:09		eP	04:46:05		eP eS	07:03:39 59
	eP	09:54:17		iP Compression	05:10:35.6		eP iS	07:47:01 15.2
	iP iS Compression	10:25:57.3 26:21.3		eP	06:01:41		eP eS	08:50:29 41
	iP iS Dilatation	10:47:09.6 24.6		iP i e iS	07:38:19.6 20.0 42 48.0		eP eS	09:58:11 29
	iP iS	11:39:56.4 40:09.2		iP Compression	08:11:41.2		eP eS	10:19:00 10
	eP eS	12:07:17 30		iP Compression	09:25:40.0		eP	11:04:10
	eP eS	14:00:30 41		eP eS	11:13:15 37		eP eS	13:13:51 14:17
	eP	14:21:00		eP	12:03:02		eP	14:26:11
	eP i eS	14:47:01 01.5 36		eP eS	17:46:16 48		eP iS	15:22:53 23:26.1
	eP	14:59:26		iP i eS	17:57:36.0 36.3 58:07		iP eS	16:07:42.1 08:03
	eP eS	15:58:08 31		eP eS	19:18:25 57		Compression	
	eP	16:31:48		eP eS	21:29:04 19		iP eS	17:34:49.0 35:05
	eP	16:58:43		iP eS	21:33:21.5 42		Dilatation	
(*) May. 25 1969	eP eS	02:35:17 36:05					eP	17:57:56
							eP eS	21:27:17 30

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Date	Type	Time	Date	Type	Time	Date	Type	Time	
May. 26 1969	eP	21:40:38	May. 28 1969	iP	10:48:30.7	May. 29 1969	eP	18:57:24	
	iS	41:00.8		eS	49		eP	23:12:25	
	eP	22:19:56		eP	11:37:00				
	eS	20:10		eS	27	30	iP	00:42:00.7	
	eP	23:39:00		eP	12:50:38		iS	12.7	
	iS	18.5		eP	12:59:44		Compression		
27	eP	03:01:00		iP	13:34:47.0		iP	02:37:28.6	
	eS	33		iP	14:05:14.2		iS	47.2	
	iP	04:00:21.6		iS	24.8		Compression		
	eS	52		Compression			iP	03:36:15.3	
	eP	05:47:40		eP	15:47:26		iS	49.3	
	eS	48:19		iP	20:51:39.0		Dilatation		
	eP	07:35:16		iS	52:00.2		eP	03:57:52	
	eS	29		eP	21:09:26		eS	58:07	
	iP	09:29:03.2		eS	37		eP	06:05:28	
	Dilatation			eP	21:41:38		eS	49	
	iP	12:42:35.8		iS	52.8		eP	06:31:10	
	iS	51.0		iP	22:23:17.8		eS	29	
	eP	15:06:49		iS	35.4		eP	06:58:37	
	eS	07:09		eP	23:29:52		eS	59:01	
	eP	15:23:12					eP	08:24:25	
	iS	26.3	29	iP	02:58:18.2		iS	40.7	
	eP	17:42:08		eS	33.5		iP	09:21:59.7	
	eS	41		Dilatation			eS	22:17	
	eP	21:50:09					Dilatation		
	eS	19		eP	04:06:14		iP	11:08:05.7	
28	eP	06:40:24		eS	31		iS	24.7	
	eS	31					Compression		
	eP	07:52:05		iP	09:30:53.4		eP	11:29:51	
	eS	25		iS	31:05.6		iS	30:28.1	
	iP	08:00:43.9		Compression			eP	12:28:00	
	iS	01:04.8		eP	10:48:52		eS	20	
	Compression			iS	49:04.0		eP	14:29:47	
	iP	08:49:27.4		eP	13:00:58		iS	30:15.6	
	iS	38.5		iS	01:12.6		eP	16:00:53	
	Dilatation			eP	16:16:13		iS	01:06.5	
	iP	10:20:33.7		eS	34		eP	17:03:54	
	iS	50.2		eP	16:24:13				
	Compression			iS	34:31.7		31	iP	00:58:55.6
				eP	18:19:28			iS	59:09.7
				i	52.3			iP	07:37:02.5
				i	58.0			iS	23.0
								Dilatation	

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Date	Time	Type	Value	Date	Time	Type	Value	Date	Time	Type	Value
May.31 1969	09:31:35.2	iP	57.0	Jun.01 1969	07:39:23	eP		Jun.02 1969	12:52:09.2	iP	22.9
		iS			09:32:49.1	iP				iS	
		Compression			33:18.5	iS				Dilatation	
	10:34:48.8	iP				Compression			12:53:03.8	iP	25.6
	35:08.4	iS			11:33:17	eP				iS	
		Dilatation			45.3	i			14:28:23.0	iP	41.5
	10:43:18.5	iP			51.8	iS				iS	
	37	eS				Compression			Compression		
		Compression			13:17:42	eP			14:49:47	eP	
	11:12:04	eP			42.7	i				iP	46.0
					19:01.9	iS				iS	
	13:26:34.3	iP				Compression			18:59:10.4	iP	46.0
	54	eS			14:50:55	eP				iS	
									Compression		
	13:34:19.0	iP			16:44:01.3	iP			20:44:49.5	iP	45.0
	31.2	iS			14.7	iS				iS	45.0
		Compression				Compression			Compression		
	15:56:15	eP			16:54:39.7	iP			21:33:32.1	iP	58.7
	57:22	eS			55:01.2	iS				iS	
						Compression			Compression		
	21:10:39.8	iP			17:11:39	eP			22:34:12.7	iP	27.2
	54.5	iS			53.7	iS				iS	
		Compression							23:27:02.7	iP	22.3
	22:41:25.1	iP			21:16:16.0	iP				iS	
	40.5	iS			32.6	iS			Compression		
		Dilatation				Compression			23:58:50.	eP	
	23:33:55	eP			22:01:12	eP				iS	59.4
	34:15.6	iS			56	eS			02:19:58.8	iP	87.0
	23:54:55.0	iP			22:08:21	eP				iS	20.2
	55:27.0	iS			32.6	iS			08:04:39	eP	55.7
		Compression								iS	
Jun.01	00:44:05.0	iP		02	03:06:17.6	iP		03	02:19:58.8	iP	87.0
	37.8	iS			48.9	iS				iS	20.2
	04:50:06	eP				Dilatation			08:04:39	eP	55.7
	39.8	iS			05:16:49	eP				iS	
					17:09	eS			11:28:47	eP	19.4
	05:18:57.0	iP								e	29.17
	19:22.5	iS			07:19:18	eP				iS	19.4
					33	eS			12:10:36	eP	49.9
	06:04:49	iP								iS	
	05:04	eS			08:37:19.5	iP			12:42:33	eP	54
					38	eS				eS	
	06:40:17.3	iP							16:40:00.5	iP	15.6
	45.9	iS			10:19:43	eP				iS	
					20:33.2	i			16:51:09.5	iP	30
	07:24:13.5	iP								eS	
	26.5	iS			12:26:16	eP			Dilatation		
		Compression			28.1	iS					

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Date	Time	Type	Date	Time	Type	Date	Time	Type
Jun.03 1969	iP 21:03:58.2		Jun.05 1969	iP 06:49:05.9		Jun.06 1969	iP 12:47:21.2	
	iS 04:13.1	Compression		eS 19	Dilatation		iS 37.2	Dilatation
	iP 22:39:48.9			iP 08:02:35.7			iP 13:56:56.0	
	eS 40:09	Compression		iS 47.2	Compression		iS 57:11.3	Compression
04	iP 02:11:48.3			iP 08:29:19.3			iP 17:08:59.8	
	iS 12:01.2	Dilatation		iS 41.8	Dilatation		iS 09:17.7	Compression
	iP 03:43:12.0			eP 08:37:33			iP 19:38:24.4	
	iS 33	Dilatation		eS 56	Compression		iS 36.7	Compression
	iP 05:54:10.2			iP 11:17:15.7			iP 22:25:55.0	
	eS 33	Compression		iS 36.1	Compression		iS 22	Compression
	eP 07:56:00			iP 11:20:05.2		07	iP 00:05:07.8	
	iS 32.8			iS 17.8	Dilatation		eS 20	Dilatation
	eP 09:57:20			eP 14:12:26			iP 00:29:34	
	eS 51			iS 13:03.0			eP 01:18:20	
	eP 10:25:13			eP 17:58:37			iS 32.3	
	iS 32.2			iS 56.1			eP 02:51:17	
	iP 10:30:53.5			eP 20:01:06			iS 37.9	
	iS 31:22.3	Dilatation		eP 20:22:54			eP 09:14:23	
	iP 12:44:12.7			iS 23:15.0			iS 39.8	
	eS 25	Compression	06	iP 01:37:44			iP 09:58:06.6	
	eP 14:39:50			iP 03:14:34.7			iS 16.6	Dilatation
	eS 40:12			iS 42.2	Compression		iP 10:42:05.9	
	iP 16:47:45.3			eP 08:18:13			eS 25	Compression
	eS 48:01			eS 44			iP 11:53:20.3	
	iP 17:57:09.1			eP 09:42:48			iS 33.0	Compression
	eS 23	Dilatation		eS 43:03			eP 12:48:49	
	iP 20:53:05.5			iP 10:15:32.0			iS 04.4	
	iS 16.3	Dilatation		eP 10:40:47			iP 14:00:34.4	
	eP 22:42:04			eS 41:18			iS 51.8	Compression
	eS 25			iP 12:08:35.3			iP 14:05:31.0	
	eP 23:15:29			eP 12:20:41			iS 53.3	Compression
	eS 49			iS 21:02.8			eP 16:48:16	
05	iP 05:33:10.2						i 54	
	iS 31.2	Compression						

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Date	Time	Type	Value	Date	Time	Type	Value	Date	Time	Type	Value	
Jun.07 1969	17:47:04.1	iP		Jun.08 1969	21:32:05.6	iP		Jun.11 1969	03:38:00.2	iP		
	16.8	iS			18.7	iS			14.4	iS		
		Dilatation				Compression				Compression		
	19:31:48	eP		09	00:02:43.9	iP			06:30:34	eP		
		eS			03:07	eS				eS		
	20:37:07.9	iP			04:11:21	eP			11:14:26.8	iP		
	24.0	iS			40	eS			44.9	iS		
		Dilatation				Compression				Compression		
	22:26:08	eP			05:07:24.1	iP			13:15:24	eP		
	27	eS			36.8	iS			55.3	iS		
	23:30:01.4	iP			09:14:54	eP			13:16:32	eP		
	25	eS			15:30	eS			43.5	iS		
08	01:40:40	eP			10:51:16.3	iP			13:16:46	eP		
	53	eS			28.9	iS				eS		
	03:27:46.5	iP			21:35:59.4	iP			14:07:20.8	iP		
	28:00.8	iS			36:20.3	iS			40.7	iS		
		Dilatation				Compression				Compression		
	05:54:44.4	iP			23:09:56.5	iP			14:34:49	eP		
	57.5	iS			10:13	eS			35:23.0	iS		
		Compression				Dilatation				Dilatation		
	07:01:21	eP		10	04:53:01	eP			15:04:51	eP		
	39.2	iS			36	eS			05:10.8	iS		
	07:50:58	eP			06:18:54.2	iP			15:14:35.8	iP		
	51:14.1	iS			19:18	iS			52.1	iS		
	11:02:05.4	iP				Compression				Compression		
	15.4	iS			08:15:33.7	iP			16:21:52	eP		
	12:23:09	eP			19.8	iS			17:02:23	eP		
	24:02	eS				Dilatation			36	eS		
	15:01:52	eP			14:43:19.2	iP			17:23:42	eP		
	02:10.6	iS			32.0	iS				eS		
	15:49:16.2	iP				Compression			18:32:28.8	iP		
	23.4	iS			15:42:36	eP			42.0	iS		
	17:35:02	eP			52	eS			19:58:44.6	iP		
	17	eS			15:48:24	eP			23:53:45.7	iP		
	19:27:11.0	iP			27.3	iS			54:15	i		
	20.4	iS			47.8	i						
		Dilatation				Dilatation			12	01:56:07.6	iP	
	19:45:56.6	iP			16:31:45	eP					Compression	
	46:11	eS			57	eS			10:22:21	eP		
	20:07:30	eP			19:17:01	eP			53	eS		
	21:11:49.3	iP			15.4	iS			11:06:03.5	iP		
	12:07	iS				Compression			17.0	iS		
		Compression			20:51:26.3	iP				Compression		
					59.8	iS			11:10:26	eP		

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Jun.12 1969	eP 12:01:46 iS 02:01.7	Jun.13 1969	iP 14:03:03.7 iS 16.8 Compression	Jun.15 1969	eP 00:26:34 eS 46
	iP 12:22:15.9 iS 28.7 Compression		iP 23:23:43.0 eS 24:10 Dilatation		eP 01:21:20 iS 47.0
	iP 12:33:17.9 iS 28.4 Dilatation		eP 23:57:30 eS 48		iP 01:23:43.8 eS 56 Compression
	eP 13:30:58 eS 31:11	14	iP 01:11:19.7 iS 37.0 Compression		eP 03:03:44 eS 04:02
	eP 16:28:32 iS 51		eP 06:18:32		iP 04:35:36.8 Compression
	iP 18:08:23.0 iS 34.9		eP 06:19:39 iS 20:04.8		iP 07:05:05.2 i 12.0 iS 25.7 Compression
	eP 20:21:49 iS 22:00.2		eP 07:42:24 iS 39.2		iP 08:43:43.0 iS 56.1 Dilatation
	iP 21:16:48.5 iS 17:50.9 Compression		iP 09:29:13.4 eS 32 Compression		iP 08:55:24.4 iS 35.7 Dilatation
	eP 23:05:49		iP 10:20:43.8 iS 21:11.0 Dilatation		iP 09:33:37.6 iS 49.8 Dilatation
	iP 23:47:07.5 iS 29.0 Dilatation		eP 10:32:59 iS 33:16.8		iP 09:56:54.7 eS 57:27 Dilatation
13	iP 01:02:10.1 eS 03:17 Compression		eP 11:11:43 iS 57.2		iP 10:58:20.1 iS 32.4 Compression
	iP 03:19:51.0 iS 20:15.4		eP 14:19:57 i 20:11.1		eP 13:18:19
	iP 04:59:05.5 iS 32.2		eP 15:49:01		iP 15:18:28.5 iS 32.2 Compression
	eP 05:12:42 eS 13:16		iP 18:56:52.6 Compression		iP 15:26:52.3 eS 27:08 Dilatation
	iP 05:29:27.0 iS 43.7 Dilatation		iP 18:58:08.0 eS 18 Dilatation		eP 19:10:03 eS 30
	iP 08:25:29.7 Dilatation		iP 21:39:49.0 iS 40:03.8 Dilatation		eP 21:39:11 eS 45
	iP 09:30:55.8 iS 31:08.3 Dilatation		eP 23:08:37 e 09:03 i 08.6		16 eP 00:48:48 eS 49:08
	iP 12:36:46.6 iS 37:00.8 Compression		iP 23:16:12.0 Compression		

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Jun.16 1969	eP eS	01:40:31 51	Jun.18 1969	iP Compression	07:13:22.0 47	Jun.19 1969	eP iS	18:30:29 42.0
	eP iS	02:52:58 53:09.4		eP eS	09:06:18 47		iP e Compression	19:44:40.8 48
	eP eS	05:02:55 03:07		iP iS Dilatation	14:28:13.3 32.0		iP iS Dilatation	21:02:39.9 33.8
	iP iS Compression	08:56:31.4 57:04.8		eP eS	16:31:47 32:06	20	iP Compression	04:34:40.7
	eP iP iS Dilatation	09:00:41 12:36:06.1 26.1		eP eS iP iS Compression	18:02:10 20 19:11:40.0 54.8		eP iP iS Compression	05:41:21 06:01:56.2 02:08.6
	eP eS	16:05:17 41		iP e Compression	19:48:01.2 08		eP eS	06:52:58 53:17
	eP iS	17:03:48 04:02.5		eP eS	21:54:53 55:05		eP	10:10:23
	eP i	17:16:51 18:04.9	19	eP eS	00:38:52 39:14		eP iS	12:44:58 45:19.0
	iP iS Compression Explosion	18:48:31.1 34.9		eP eS	00:45:10 29		iP iS Compression	16:03:55.2 18:51:46.5 52:52.4
	iP Compression	19:49:22.3		eP eS	01:17:31 45		iP Compression	19:53:09.2
	iP i i i Dilatation	20:03:09.2 17.3 25.1 39.0		eP eS iP eS Compression	03:25:12 27 07:50:42.9 59		iP i i Compression	20:34:47.0 56.5 35:00.1
	iP eS Dilatation	21:54:09.3 26		eP iS	09:23:42 54.1		iP iS Dilatation	21:17:45.8 18:06.2
	eP eS	22:47:45 59		iP Compression	10:09:51.0	21	iP iS Compression	04:27:45.9 28:08.2
17	Station Stopped			eP e	12:14:14 48		iP iS Compression	04:30:42.2 31:12.5
18	eP	01:48:41		iP i Compression	14:41:03.5 23.4		iP Compression	05:17:04.0
	iP iS Dilatation	02:58:15.9 26.3		iP Compression	15:04:59.8			
	iP eS Compression	06:42:52.5 43:11						

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Jun. 21 1969	iP 06:29:23.3 iS 35.8 Compression eP 07:45:29 eP 09:22:58 eS 23:15 iP 10:45:35.5 Dilatation iP 14:00:42.0 iS 01:18.2 Compression eP 14:51:19 eS 38 eP 15:54:30 iP 18:22:52.8 iS 23:27.1 Compression	Jun. 22 1969	eP 13:24:31 eS 54 eP 15:50:24 eS 56 iP 16:34:27.0 i 32.0 iS 47.1 Dilatation 23 eP 04:08:38 eS 57 eP 05:21:26 eP 06:36:54 eS 37:06 eP 06:55:26 iS 41.6 eP 10:05:41 eP 11:03:04 eP 13:20:30 iS 21:01.2 iP 13:58:21.6 eS 37 Dilatation iP 14:35:03.4 i 26.9 Dilatation iP 16:04:07.5 Compression iP 17:24:47.2 Compression iP 19:46:55.8 Compression eP 20:02:48 iS 03:03.2 iP 20:30:12.6 iS 30.2 Compression iP 21:41:46.7 iS 42:01.5 Compression	Jun. 24 1969	iP 00:19:34.7 iS 53.7 Compression eP 00:42:14 iP 03:37:19.0 iS 38.5 Compression eP 04:30:44 iP 46.7 eP 04:48:30 iS 43.1 eP 05:20:35 i 21:30.7 eP 07:09:19 eP 08:31:24 e 40 eP 08:40:44 i 41:16.5 eP 08:58:26 i 00:18.5 iP 09:08:09.0 Compression eP 10:01:54 e 02:21 eP 10:33:42 eS 53 iP 10:39:20.9 e 41 Compression iP 13:26:45.2 iS 27:05.0 Compression iP 14:13:47.7 iS 14:03.3 Compression iP 15:14:31.3 iS 46.6 Compression iP 16:16:30.0 iS 49.0 Compression
22	eP 00:39:57 eS 40:22 iP 03:10:29.5 iS 42.8 Dilatation iP 04:40:54.5 Dilatation iP 05:49:40.2 Compression eP 06:48:38 iS 54.0 iP 09:03:42.8 iS 54.0 Compression eP 09:25:43 iS 55.5 eP 10:38:38 iP 11:36:56.0 Compression iP 11:43:19.9 iS 30.2 Dilatation eP 12:33:26				

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Jun. 24 1969	iP 17:06:07.7 iS 25.8 Dilatation (*) iP 19:43:45.8 i 49.0 i 51.0 Compression eP 20:12:35 iS 46.5 eP 20:28:23	Jun. 25 1969	iP 23:06:35.7 iS 53.5 Dilatation 26 eP 01:34:17 e 41 eP 05:43:03 iS 13.6 iP 06:22:28.4 iS 42.2 Compression iP 06:25:30.9 iS 51.2 Compression iP 06:37:36.3 iS 56.5 Compression (**) eP 10:55:08 e 31 e 36 eP 11:29:34 iS 51.4 iP 13:32:39.5 iS 54.8 Compression eP 14:31:22 iP 15:16:46.3 iS 58.7 Compression iP 17:13:25.3 i 43.7 Dilatation iP 19:15:23.9 eS 48 Compression iP 22:30:44.7 Dilatation iP 22:59:15.3 Dilatation	Jun. 27 1969	eP 03:11:36 iS 53.8 iP 04:20:49.0 iS 21:02.8 Compression eP 04:27:30 iS 44.0 From 27 at 04:40 to 27 at 22:15 seismograms failed. 28 iP 02:53:05.0 iS 17.0 Compression eP 04:06:23 eP 06:18:23 iS 44.0 eP 10:19:02 eS 28 iP 17:13:02.9 iS 22.8 Compression eP 20:02:57 eP 21:22:34 iP 22:32:09.7 i 21.3 i 28.2 i 29.9 Dilatation 29 iP 00:08:19.3 iS 46.9 Compression eP 01:38:54 eS 39:15 iP 02:13:29.8 eS 51 Dilatation iP 02:42:51.2 Compression iP 03:19:12.6 iS 30.8 Compression
(*) Jun. 24	iP 19:25:03.6 iS 07.2 Compression	(**) Jun. 26	eP 07:24:10 iS 33.6		

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Jun. 29 1969	iP 07:19:20.9	Jun. 30 1969	eP 19:35:36	Jul. 01 1969	iP 23:39:15.8
	iS 39.9		eP 19:49:42		e 45
	Dilatation		eP 20:05:13	02 1969	eP 06:59:21
	eP 07:52:09		eP 21:58:20		eS 50
	eS 20		eP 22:03:50		iP 07:43:37.9
	iP 08:40:43.8		iS 04:22.6		e 44:15.6
	iS 54.8				iP 10:14:41.4
	Compression	Jul. 01 1969	iP 04:54:36.2		Dilatation
	iP 10:02:04.8		Dilatation		iP 12:51:20.9
	iS 23.0		iP 05:52:51.0		eS 35.7
	Compression		i 53:11.5		iP 14:44:55.4
	iP 16:07:19.5		i 17.4		iS 45:13.6
	Compression		iP 05:55:31.2		Compression
	eP 16:44:06		eS 47.8		iP 14:48:15.8
	iP 18:46:24.1		Compression		iS 31.5
	iS 43.3		iP 06:12:21.7		iP 17:08:44.3
	Compression		eS 44.7		iS 09:17.0
	eP 19:07:13		iP 07:22:31.4		iP 17:57:18.2
30 1969	eP 01:12:11		i 23:05.1		iS 35.1
	iS 23.0		Compression		Dilatation
	iP 01:20:18.1		iP 07:58:07.0		iP 18:04:34.7
	eS 38		iS 39.7		e 05:05.6
	Dilatation		iP 10:14:35.5		iP 18:12:09.2
	eP 06:00:29		iS 15:07.6		eS 33.7
	eP 08:26:46		Compression		Compression
	eP 09:48:23		iP 13:43:40.2		iP 18:15:42.4
	e 55		iS 44:01.3		Compression
	iP 10:06:19.7		iP 14:23:25.3		iP 18:28:27.4
	iS 33.3		e 53		eS 44.1
	Dilatation		eP 16:32:06.9		iP 19:35:48.9
	iP 10:33:51.7		e 36.1		iS 36:01.4
	iS 34:12.8		iP 17:04:31.9		Dilatation
	Compression		iS 44.2		iP 20:08:27.8
	iP 11:13:17.6		Dilatation		e 34.1
	e 38		iP 22:43:30.3		eS 50.5
	Compression		iS 52.2		iP 21:23:05.9
	iP 14:40:13.1		Compression		eS 26.7
	Compression		iP 22:45:07.1		iP 21:33:05.3
	eP 15:17:46		i 34.7		eS 26
	eP 18:15:44		iS 36.1		iP 22:49:12.3
	iS 16:05.8				iS 41.5
					Dilatation

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Jul.02 1969	iP	23:59:39.2	Jul.04 1969	iP	07:54:38.6	Jul.05 1969	iP	03:24:07.1	
03	iP	06:22:09.4	eS	eS	56.1	iS	iS	29.5	
	eS	23.7		iP	08:36:49.4		Compression		
	iP	06:35:09.2		eS	37:18		eP	04:59:50	
	iS	25.6		iP	09:03:45.9		eP	05:02:20	
	Compression			Dilatation			eS	37	
	eP	09:43:26		iP	09:07:35.4		iP	05:57:29.9	
	eS	43		eS	08:07.6		eS	45.2	
	eP	11:15:50		iP	10:20:16.8		iP	07:07:43.1	
	e	16:06		iS	27.8		iS	57.4	
	e	21		Dilatation			Compression		
	iP	12:11:18.2		iP	11:43:31.8		iP	08:31:31.4	
	iS	39.7		eS	48		iS	43.3	
	Compression			iP	12:23:44.1		iP	12:05:44.4	
	iP	12:28:29.6		Compression			iS	06:03.2	
	iP	30.2		iP	14:27:28.8		iP	12:47:37.3	
	i	52.7		iS	47.7		iS	56.9	
	iP	15:58:38.6		Compression			Compression		
	Compression			iP	14:45:18.4		iP	15:25:40.5	
	eP	16:30:52		iS	26.3		iS	26:11.1	
	iS	31:14		Compression			Dilatation		
	iP	16:57:05.4		iP	14:56:15.8		iP	19:06:28.4	
	e	36.2		eS	28.3		iS	07:01.1	
	iS	37.2		Compression			Compression		
	iP	17:43:20.2		iP	15:44:35.5		iP	19:50:50.9	
	eS	42.6		eS	48.9		iS	51:02.1	
	iP	18:34:17.3		iP	16:33:16.9		Dilatation		
	iS	48.2		Dilatation			eP	22:09:08	
	iP	19:49:21.4		iP	19:33:43.5		eP	22:44:25	
	iS	41.4		iS	54		iP	23:45:41.6	
	iP	21:50:08.2		Dilatation			eS	46:15.7	
	iS	21.3		eP	20:55:03				
	Dilatation			eS	21.8		06	iP	00:21:14.1
	iP	22:19:00.6		eP	22:03:11		iS	27.7	
	Dilatation			iP	23:54:58.4		Compression		
	iP	23:19:51.1		eS	55:11		iP	03:50:48.2	
	iS	20:10.0		05	iP	01:05:25.3	iS	51:01.7	
	Dilatation			iP	02:41:18.5		iP	03:56:51.2	
	iP	23:34:38.4		eS	33.3		eS	57:09.1	
04	iP	00:01:22.0					iP	06:16:35.9	
	iS	34.6					iS	17:08.8	
	Dilatation						Dilatation		

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Jul.06	iP	07:40:45.9	Jul.07	iP	11:59:05.1	Jul.08	iP	07:44:18.4	
1969	eS	41:05.7	1969	eS	24	1969	iS	29.3	
							Dilatation		
	iP	08:00:27.9		iP	13:35:37.6		eP	07:57:33	
	i	52.3		eS	49		eS	58:06.3	
	iP	15:19:24.5		iP	16:34:37.7		iP	08:22:18.3	
	eS	37		iS	59.1		iS	33.4	
				Compression					
	iP	16:17:30.2		iP	18:35:41.9		iP	12:01:48	
	eS	45.2		eS	36:16.6		eS	02:04.6	
	iP	16:18:25.2		iP	18:53:33.2		iP	13:14:07.2	
	iS	41.8		iS	54:05.0		iS	25.4	
	iP	16:49:10.3		iP	19:30:06.9		iP	14:24:43.9	
	eS	20.7		eS	26.2		iS	25:01.7	
	iP	16:59:07.8					Compression		
	eS	19.1		iP	19:57:16.2		iP	15:01:36.1	
				iS	29.2		eS	56.2	
	iP	17:16:18.6		iP	22:54:03.6		iP	16:41:21.8	
	e	39.3		iS	15.8		iS	40.4	
	i	49.7		Compression			Compression		
	iP	19:23:23.7		eP	23:35:37		iP	17:03:22.2	
	iS	48.2		eS	36:08.6		eS	43.7	
	iP	21:23:28.2		eP	23:39:31		iP	17:25:44.6	
	iS	55.7		eS	51.9		eS	58.5	
	iP	21:29:55.2		08	iP	01:19:21.5	iP	18:05:40.8	
	iS	30:08.4		eS	33		i	53.0	
	Compression			iP	01:19:55.2		iS	54.1	
	eP	23:46:43.2		eS	20:12.3		iP	20:08:36.2	
	eS	47:16.9					eS	57.3	
07	iP	00:05:12.1		iP	01:56:24.0		iP	21:36:29.4	
	iS	21.2		iS	36.7		iS	46.6	
	Dilatation			Dilatation			Compression		
	iP	00:18:34.3		iP	02:00:47.9				
	iS	46.6		eS 8	01:03.6				
	iP	02:37:22.3		iP	02:18:42.6		09	iP	05:57:28.5
				eS	59.0		iS	50.2	
	iP	02:41:52.3					eP	07:32:13	
	Compression			iP	04:44:40.1		iS	28.1	
	iP	03:33:43.9		eS	56.9		eP	08:05:58	
	iS	34:16.2					eS	06:14	
	Compression			iP	05:45:30.2		iP	10:18:55.0	
	iP	04:18:05.5		eS	45.4		iS	19:29.8	
	eS	15.9					Dilatation		
				eP	06:11:40		iP	11:13:16.7	
	iP	08:39:46.1		eS	12:11.8		iS	39.2	
	Dilatation			iP	07:27:05.6				

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Jul.09	iP	12:32:17.3	Jul.10	iP	19:50:09.4	Jul.12	iP	02:21:33.4
1969	eS	44.3	1969	Compression		1969	eS	44.9
	iP	12:41:21.3		iP	20:38:53.6		eP	02:27:05
	eS	40.6		iS	39:09.2		iP	03:28:28.7
	iP	14:47:02.0		Compression			iS	41.8
	iS	15.9		iP	20:51:49.9		Compression	
	Compression			eS	52:24.3		iP	04:30:16.1
	iP	17:43:51.9		iP	23:31:08.7		eS	35.7
	iP	18:43:29.2		eS	27.6		iP	07:01:16.6
	iS	44.0	11	iP	00:11:26.5		iS	32.5
	iP	21:17:06.3		eS	51.5		eP	07:03:45
	eS	38		iP	00:57:09.9		eS	04:01.3
	iP	21:27:03.2		eS	30.4		iP	08:15:37.8
	iP	21:52:44.9		Dilatation			eP	10:26:13
	Dilatation			iP	01:55:46.2		eS	32.1
	iP	22:01:37.9		eS	56:06		eP	12:44:51
	Compression			iP	02:30:21.3		eS	45:12.6
	eP	23:11:51		eS	44.2		iP	13:04:03.2
10	iP	00:03:36.8		iP	03:19:35.5		eS	24.7
	eS	54.5		eS	20:07		iP	15:50:16.1
	iP	00:14:48.6		iP	03:56:34.9		eS	48
	eS	15:06		iS	51.5		iP	18:13:15.4
	iP	01:51:28.8		iP	04:59:01.3		iP	18:22:47.6
	eP	01:53:23		eS	21.2		iS	59.1
	iP	02:06:38.9		eP	10:20:52		Dilatation	
	eS	56		eS	21:25.2		iP	21:09:09.9
	iP	05:58:00.1		iP	10:30:36.7		eS	22.4
	iS	11.1		eS	53		iP	22:15:03.4
	iP	06:21:22.3		iP	10:59:45.5		iS	21.3
	eS	39.5		eS	00:06.0		Compression	
	iP	07:44:54.9		iP	19:12:20.6		iP	23:47:24.2
	eS	19.5		Compression			iS	43.0
	iP	08:04:34.9		iP	23:49:04.2		Compression	
	Dilatation			iS	16.6		iP	23:57:09.8
	iP	08:42:58.2		iP	23:57:53.9		eS	28.1
	Compression		12	eP	01:00:13	13	iP	02:33:16.2
	eP	12:19:24		eS	27.4		iS	35.8
				eP	02:19:09		iP	04:49:25.2
				eS	21		eS	45

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Jul.13 1969	iP 05:46:08.0 Dilatation	Jul.14 1969	iP 06:04:10.3 iS 23.6 Compression	Jul.15 1969	iP 07:02:58.3 iS 03:11.5 Dilatation
	iP 06:28:56.6 Dilatation		eP 07:46:41 eS 47:14.6		iP 08:51:01.9 i 52:04.5 Compression
	iP 09:48:19.5 iS 47.5		eP 09:08:16		iP 10:16:37.2 iS 55.5 Compression
	iP 11:04:01.2 eS 36		iP 10:57:15.3 iS 26.2 Dilatation		iP 11:41:33.7 iS 45.9
	iP 11:43:38.8 iS 53.9		iP 13:06:05.6 i 15.6 iS 22.5		iP 15:11:45.2 Compression
	iP 12:11:17.1 iS 30.2		iP 14:16:32.8 iS 49.8		iP 17:44:33.6 i 58.2 Dilatation
	iP 13:23:52.3 eP 14:50:36		iP 17:24:15.5		iP 20:18:20.5 iS 33.9 Compression
	eP 19:12:10 eS 23		iP 18:18:36.4 eS 47		iP 20:37:46.5
	iP 19:31:06.6 iS 21.9 Compression		eP 18:51:32 eS 59.9		iP 23:10:11.8 iS 25.8 Compression
	iP 21:20:03.3 eS 24.9		iP 19:28:38.8 eS 52.2	16	iP 01:12:39.4 iS 13:04.8
	iP 21:45:00.8 eS 26		iP 21:37:21.7 eS 36.6		iP 01:22:17.3 iS 30.6 Dilatation
	iP 22:32:55.3 eS 33:16.2		iP 22:58:37.5 eS 55.2		iP 02:18:05.9 eS 20.1
	iP 22:42:15.3 eS 29		iP 23:27:11.9		iP 04:51:03.6 iS 22.1 Compression
	iP 23:13:54.5 i 14:24.5	15	iP 00:09:42.8 eS 10:01.1		iP 05:31:43.5 iS 32:02.9 Dilatation
	iP 23:48:45.9 iS 49:12		iP 03:15:27.0 iS 51.9		iP 05:48:41.5 eS 49:01.9
14	iP 01:31:23.9 eS 39.9		iP 04:41:58.1 iS 42:12.6 Compression		iP 05:59:29.3 eS 44.6
	iP 02:51:06.5 eS 17.1		iP 05:49:42.1 Dilatation		iP 06:46:56.3 iS 47:28.3 Dilatation
	iP 03:46:22.6 eS 36.9		eP 06:27:35.9 iS 55.8		
	eP 05:42:40 eS 53		iP 06:56:18.2 iS 41.2		

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Jul.16 1969	iP 07:47:13.9	Jul.17 1969	iP 09:00:35.8	Jul.19 1969	iP 13:18:49.8
	iS 25.0		eS 49.1		eS 19:06.9
	Compression		iP 09:17:10.8		Compression
	iP 07:54:16.3		eS 31.7		iP 15:27:10.6
	eS 48.9		iP 15:49:33.5		Dilatation
	iP 10:06:00.5		iS 51.3		iP 16:05:37.8
	iS 18.4		iP 20:13:12.7		e 39.6
	iP 10:21:43.3		iS 38.5		iP 17:55:39.8
	Compression		i 39.4		iS 56:01.9
	iP 11:11:43.3		Compression		iP 19.52:11.0
	iS 57.2		iP 21:16:07.8		Compression
	Compression		iS 20.1		iP 23:47:10.0
	eP 12:01:32		Compression		iS 30.5
	eP 12:10:16		iP 21:24:06.6	20	iP 06:12:00.9
	iP 14:39:55.5		eS 32.1		eS 18.9
	iS 40:09.9		iP 23:08:46.4		i 19.1
	iP 15:30:57.9		iS 09:01.7		iP 09:12:20.5
	iS 31:27.4	19	eP 00:27:48		iS 37.9
	iP 17:09:41.0		iP 04:56:21.3		Dilatation
	iS 53.1		Dilatation		iP 09:45:09.3
	Dilatation		iP 05:36:25.4		eS 41.2
	iP 17:31:42.6		iS 36.8		iP 10:02:00
	Dilatation		iP 05:50:29.6		e 01.6
	iP 22:40:30.9		iS 43.2		eS 08.6
	eS 51.7		Compression		iP 12:46:27.6
	iP 23:21:39.5		iP 06:40:43.0		iS 45.5
	iS 52.6		eS 06.5		i 46.7
17	iP 02:12:59.7		Compression		Compression
	Compression		iP 07:36:06.5		iP 12:53:42.1
	iP 03:58:41.8		eS 37.7		iS 54.0
	eS 59:06.0		iP 09:16:26.5		iP 13:38:51.0
	iP 04:06:32.1		iS 46.7		iS 39:04.5
	eS 51.3		Dilatation		iP 14:46:40.9
	i 51.6		iP 10:43:37.2		Compression
	iP 05:39:29.6		eS 52.8		
	iS 51.1		e 53.0	(*)	iP 15:16:51.0
	i 51.7		iP 11:43:45.5		iS 17:04.5
	Compression		iS 44:00.9		iP 18:15:20.1
	iP 06:30:52.7		Compression		eS 35.8
	iS 31:15.1		iP 12:00:07.4		iP 18:40:51.5
	iP 07:01:34.4		iS 21.7		e 52.4
	iS 49.3				eS 41:30.8
					Compression

Jul.20 1969
iP 15:10:28.8
iS 44.8
Compression

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Jul. 20 1969	iP iS Compression	20:08:18.3 31.8	Jul. 22 1969	iP eS	00:08:45.8 09:02.1	Jul. 23 1969	iP i	01:17:26.4 26.8	
21	iP eS	00:01:20.3 37.3		iP eS e	02:12:54.8 13:26.0 27.1		iP iS i	02:08:39.5 53.1 53.4	
	iP eS	00:55:58.2 56:29.9		iP eS	02:51:54.3 52:01.1		iP iS	06:58:55.9 59:11.4	
	iP eS	01:31:21.8 41.1		Dilatation			iP eS	10:17:37.0 18:07.6	
	iP eS	03:24:20.1 43.3		iP iS	03:30:10.0 21.1		iP iS	12:37:43.7 38:03.3	
	Compression			Compression			iP iS	18:00:21.8 47.1 47.3	
	iP iS	04:43:34.4 45.8		iP eS i	04:10:49.8 11:01.8 02.1		iP eS e	18:24:54.8 25:12.5	
	Compression			iP eS i	07:18:44.0 19:14:9 15.9		iP eS	19:47:37.5 Compression	
	iP iS	05:46:41.5 57.4		iP iS	07:18:47.7 19:10.1		iP iS	23:12:59.0 13:12.0	
	Dilatation			Compression			24	eP e	03:02:16 22.8
	eP e i iS	06:35:38 38.6 40.1 36:19.8		iP eS i	10:07:17.0 33.5 34.3		iP iS	05:12:12.3 36.6	
	iP iS i	06:48:33.5 59.7 49:01.1		Compression			Compression		
	iP iS	08:52:04.6 16.2		iP e	12:10:46.2 46.7		iP iS	06:31:55.0 32:07.7	
	iP iS	10:34:46.8 58.9		iP iS	12:31:50.1 32:08.3		iP iS	07:37:16.2 33.1	
	Compression			Compression			iP iS	09:00:06 06.2 39.5 39.9	
	iP eS	12:09:40.6 10:00.4		iP iS i	16:22:43.8 23:01.0 01.5		iP iS	10:19:08.3 31.9	
	iP eS i	14:06:22.7 33.5 34.8		iP eS	18:51:31.6 Compression		eP e eS i	10:48:03.8 04.0 21.0 21.5	
	iP eS	15:03:26.6 58.5		iP eS	19:14:08.1 22.3				
	iP eS	16:58:07.4 40.1		iP iS	20:00:30.2 43.0				
	iP eS	22:23:37.2 57.5 57.8		Dilatation					
				iP e iS	22:01:38.0 38.4 52.5				

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Jul. 24 1969	iP iS Compression	11:08:35.0 42.8	Jul. 25 1969	iP eS	19:52:22.8 42.0	Jul. 27 1969	iP iS Compression	01:21:38.3 50.5
	iP eS	15:21:34.2 22:08.8		iP iP iS Compression	20:05:34.4 22:09:06.3 19.6		iP iS	01:35:33.3 50.3
	iP Compression	15:59:13.3		iP iS	23:02:38.0 59.5		iP iS	03:03:58.1 04:10.6
	iP eS	16:48:03.1 17.1		26 iP iS	02:33:42.1 56.0		iP eS	03:16:43.0 17:02.7
	iP eS	18:27:09.1 23.4		iP iS	03:56:49.7 57:02.2		iP iS	04:06:47.8 07:05.6
	iP	18:39:50.7		iP eS i	04:09:45.0 10:11.9 12.4		iP eS	04:25:24.7 44.3
	iP eS	19:41:47.9 42:10.3		iP eS i	04:49:10.6 05:00:33.7 49.6 49.9		iP eS	05:27:22.9 43.7
	eP e eS	20:42:23 23.2 57.2		iP iS i	05:04:05.9 26.7		iP eS i	07:34:06.1 23.0 23.7
	iP eS	21:43:00.0 32.2		iP iS Dilatation	08:04:21.7 30.1 32.7 05:38.5		iP eS i	08:37:20.1 40.5 40.9
25	iP Dilatation	06:08:24.4		iP e e iS	09:55:08.8 22.8		iP iS i	10:09:41.6 10:00.2 Compression
	eP e	06:29:31 31.8		iP iS	10:12:12.7 27.0		iP iS i	11:46:02.2 24.0 26.0
	iP iS	07:23:34.0 24:02.6		iP iS	11:34:10.0 27.9		iP iS i	13:13:49.1 49.3
	iP eS	07:30:50.0 31:16.8		iP iS Compression	15:49:58.9 50:21.0		iP eS	13:29:25.6 Dilatation
	iP iS	09:42:53.4 43:05.1		iP eS Compression	17:07:34.8 08:02.3		iP eS	14:25:03.1 26.1
	iP eS	11:17:10.8 26.5		iP eS Compression	17:25:40.1 Dilatation		iP iS	14:45:54.1 Dilatation
	iP iS i Compression	11:30:18.1 34.8 40.0		iP eS Compression	18:47:58.3 58.8		iP iS	15:11:37.3 53.4
	iP eS	11:54:58.1 55:32.1					iP iS	15:44:57.6 45:12.3
	iP eS i	18:38:08.4 39.9 40.1						

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Jul. 27 1969	iP eS	16:22:11.0 30.1	Jul. 29 1969	iP iS	05:47:13.8 24.9	Jul. 30 1969	iP iS i	12:06:19.6 44.5 46.3
	iP	17:44:17.9		iP iS	07:53:02.1 23.3		iP iS	17:06:15.3 29.1
	iP iS Dilatation	18:29:19.9 32.9		iP eS	11:38:42.8 39:12.0		Dilatation iP iS	18:12:17.3 32.1
	iP e eS	21:30:19.3 19.6 51.0		iP eS	11:54:13.9 47.3		Dilatation iP eS	18:51:20.1 19:29:17.3 37.9
	iP	21:34:30.1		iP eS	12:34:21.6 32.3		Compression iP eS	21:24:02.7 14.7
28	iP iS	00:23:36.5 49.9		iP eS	13:02:56.7 03:16.8		iP iS	23:55:22.8 42.7
	iP iS Compression	01:02:33.1 47.0		iP e	13:09:02.4 13.3		31 iP eS	02:11:33.2 51.9
	iP iS Dilatation	01:38:30.2 42.0		iP eS	14:23:51.3 24:11.0		iP eS e	03:13:01.6 11.8 12.0
	iP iS	07:18:51.0 19:05.9		iP iS Compression	15:47:56.2 48:14.8		iP eS e	06:01:08.0 27.6
	iP eS	12:12:51.7 13:15.3		iP	18:25:52.4		iP iS Dilatation	08:29:06.9 20.6
	iP eS	13:37:20.9 47.1		iP Compression	18:50:30.7		iP iS Dilatation	02:29:44.5 30:05.3
	iP iS	14:03:00.8 11.0		iP iS Compression	21:12:27.0 39.3		iP iS Dilatation	12:14:09.1 11.0
	iP eS	15:12:05.7 26.5		iP iS	21:22:27.0 39.3		iP iS Dilatation	12:27:38.9 56.4
	iP iS Compression	15:57:20.3 32.6	30	iP eS i Compression	02:46:38.2 57.4 57.7		iP iS	13:35:12.6 48.3
	iP eS e	17:22:13.0 38.8 39.3		iP iS	04:01:44.6 02:04.6		iP eS	16:44:04.3 21.6
	iP Compression	19:07:54.9		iP	07:00:13.1		iP iS	18:20:09.0 19.7
	iP eS	20:35:01.0 11.7		iP eS	07:52:01.6 40.9			
29	iP iS	02:35:13.3 29.7		iP e	10:09:45.8 49.7			
				iP iS	11:34:22.6 41.8			

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Jul. 31 1969	iP eS	18:39:26.1 44.6	Aug. 03 1969	iP iS	07:03:34.2 55.4	Aug. 05 1969	eP iP eS	02:28:02 05:40:13.6 47
	iP Dilatation	19:32:24.3		eP eS	07:18:40 19:15		eP eS	08:10:23 11:14
	iP	19:46:00.2		iP iS	14:32:02.8 17.3		iP iS	09:55:41.1 52.7
	iP Compression	20:21:52.2		Compression			Dilatation	
	iP Compression	20:34:43.3		eP eS	21:17:20 52		eP eS	10:38:39 56
	iP Compression	22:35:12.4		eP	23:06:41		iP iS	11:33:51.6 34:13.0
	iP	22:50:37.2		iP iS	23:53:20.3 36.8		Dilatation	
Aug. 01 1969	iP iS	01:10:21.5 53.7		eP iS	03:05:53 07:06.8		iP iS	18:58:01.7 52.4
	iP eS	04:07:11.1 56	04	eP i iS	04:05:37 38.0 06:06.7	06	iP eS	03:36:52.1 32
	iP eS	06:40:00.1 29		eP eS	06:38:09 32		iP iS	20:39:02.4 33.7
	iP eS	18:48:29.2 49:02		iP iS	07:51:22.9 52:15.5	07	iP iS	00:45:23.5 40.6
	eP iS	22:01:16 31.7		iP eS	09:21:10.6 48		iP iS	04:49:34.9 54.6
02	iP iS	01:06:24.4 39.5		eP iS	10:44:45 56.5		Dilatation	
	Dilatation			iP eS	14:27:03.1 22		iP iS	07:07:47.6 09:04
	iP i iS	02:55:49.6 56:12.5 15.3		iP i	17:38:07.0 10.7		iP iS	08:04:42.1 05:02.1
	Dilatation			iP iS	19:10:33.8 50.0		iP iS	08:16:51.7 17:10.4
	iP i iS	06:38:19.6 22.2 57.6		iP iS	19:13:51.5 14:04.3		iP eS	10:05:28.1 46
	eP eS	08:01:45 02:23		Compression			Compression	
	iP	20:32:39.3		eP iS	21:13:42 14:12.8		iP iS	15:58:46.5 57.4
	iP iS	22:58:12.6 44.2		iP	21:51:12.4		iP iS	19:59:12.9 24.0
	Dilatation						Dilatation	
03	iP iS	00:41:27.6 54.2	05	eP e	01:52:01 13		iP iS	20:44:29.8 46.7
	iP eS	06:05:01.6 35		iP	02:12:10.6		Compression	

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Aug.08 1969	iP	01:38:59.0	Aug.08 1969	eP	22:49:48	Aug.11 1969	iP	06:00:10.3
	iS	39:19.2		iS	50:20.5		iS	26.7
	Compression			Compression			Compression	
	eP	01:43:22		eP	23:15:03		iP	09:25:20.3
	iS	37.6		eS	16:09		iS	31.0
	iP	02:20:22.1	09	iP	00:25:24.9		iP	13:02:23.5
	iS	51.3		iS	26:37.9		eS	20:45
	Dilatation			Dilatation			Dilatation	
	iP	02:44:48.0		iP	01:51:49.2		iP	16:31:34.1
	iS	45:21.1		iS	52:21.6		iS	51.2
	Dilatation			Dilatation			Dilatation	
	iP	05:12:29.6		iP	15:32:53.2		iP	16:58:45.3
	Dilatation			iS	33:14.4		iS	59:04.1
	iP	05:43:18.1		Compression			Dilatation	
	eS	38		iP	19:58:04.4		iP	20:48:15.1
	Compression			eS	39		eS	49:12
	iP	06:18:08.2		Compression			Compression	
	eS	19:24		eP	23:16:24		iP	21:19:50.8
	Compression			iS	17:35.6		eS	20:01
	eP	06:50:06	10	iP	02:41:30.9		Compression	
	iP	07:21:14.4		iS	43:01.6		eP	21:47:07
	iS	30.5		Dilatation			Compression	
	eP	09:00:26		iP	06:51:08.9	12	eP	00:12:50
	eS	01:00		iS	41.1		eP	04:20:35.7
	Dilatation			Dilatation			eS	21.05
	iP	09:55:48.8		iP	15:06:07.7		eP	05:52:42
	iS	57:06.2		iS	32.4		iS	56.1
	Compression			Compression			Compression	
	iP	14:41:01.2		iP	19:54:31.5		iP	07:22:57.1
	iS	32.6		iS	49.1		iS	23:19.6
	Dilatation			Dilatation			Dilatation	
	iP	16:12:08.1		eP	22:28:22		iP	15:18:45.7
	iS	16.5		iS	46.1		eS	19:38
	iP	16:57:32.6		Compression			Compression	
	eS	49		iP	22:30:30.1		iP	18:36:42.9
	Compression			eS	42		eS	37:01
	eP	20:08:30	11	iP	00:46:07.8		eP	03:03:06
	eS	48		iS	27.5		eS	20
	iP	20:13:39.1		Dilatation			Dilatation	
	iP	20:53:03.1		iP	01:13:42.2.		iP	03:20:53.1
	iS	13.5		iS	52.5		iS	21:08.5
	Compression			Compression			Compression	
	eP	21:03:41		iP	01:25:00.1		eP	03:41:42
	i	42.5		iS	34.2		eS	42:11
	iP	22:06:20.9		iP	02:42:24.8		iP	03:49:54.5
	eS	53		iS	39.4		eS	50:12
	Dilatation			Dilatation			Dilatation	
	iP	03:44:14.3		iP	03:44:14.3		eP	08:04:27
	Dilatation			Dilatation			eS	40

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Aug.13 1969	iP iS	09:43:25.2 44:36.6	Aug.17 1969	iP iS	04:43:16.6 44.3	Aug.19 1969	eP eS	06:48:47 49.22	
				Compression					
	iP iS	19:07:53.8 08:07.4		iP iS	07:21:54.6 22:44.4		eP eS	08:47:38 48:10	
	Compression			iP	12:14:25.3		eP eS	09:10:58 11:15	
	iP iS	19:36:40.2 58.3		eP eS	12:35:08 42		iP iS	11:01:36.4 02:27.6	
	iP iS	21:20:25.3 57.6		iP	20:23:22.6		iP eS	12:14:30.8 15:10	
	Dilatation			iP eS	21:27:56.2 28:28		iP iS	13:51:43.9 52:03.7	
	iP iS	22:03:55.1 05:16.6		iP iS	21:39:58.7 40:10.6		eP eS	16:25:31 26:36	
14	iP eS	07:42:58.2 43:09	18	iP eS	00:55:43.9 56:11		iP iS	17:30:16.4 49.5	
	iP iS	09:17:43.2 45:08.9		Dilatation			20	eP eS	00:11:20 55
	Compression			eP eS	01:53:02 32				
	eP	14:38:36		iP	01:58:30.3		iP	00:28:02	
	iP iS	16:20:16.2 33.2		iP iS	02:01:39.1 54.0		iS	13.7	
	Compression			iP iS	02:51:04.3 22.5		eP eS	17:30:31 42	
	iP iS	17:31:40.3 53.2		Compression			iP	19:15:52.4	
	iP iS	19:43:53.7 44:09.1		iP iS	04:28:33.5 45.4		iP eS	20:13:34.1 45	
15	iP eS	05:11:37.9 12:01		iP iS	05:44:03.8 21.7		eP eS	22:59:45 00:10	
	eP	09:01:10		iP eS	07:24:16.7 43		21	eP eS	00:25:40 26:10
16	iP Compression	18:28:11.8		eP eS	08:50:37 59		eP eS	02:35:26 47	
	iP iS	19:39:17.7 33.5		iP iS	10:23:40.4 25:11.5		iP eS	06:32:36.3 33:09	
	Compression			iP iS	14:28:48.7 29:02.1		iP eS	09:49:41.3 50:16	
	eP iS	22:30:50 31:21.2		iP iS	23:57:47.8 58:14.4		22	eP eS	03:31:33 32:04
	eP eS	23:17:19 18:38		Compression					
17	eP eS	02:44:02 27	19	iP eS	04:48:34.6 49.1		iP iS	05:13:54.7 14:07.5	
							eP eS	10:03:07 40	

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Aug. 24 1969	iP iS	02:28:29.8 44.5	Aug. 30 1969	eP eS	03:03:05 35	Sep. 02 1969	eP eS	08:40:53 41:13
	iP iS	08:39:21.3 32.4		eP eS	05:55:02 36		iP iS	15:45:28.8 47.7
	iP eS	22:46:10.7 27		iP i eS	06:12:13.4 17.2 35		Compression eP	16:37:01
25	iP eS Compression	00:29:40.9 30:15		iP Dilatation	07:00:51.7		eP eS	17:18:56 19:22
27	eP eS	03:51:11 46		iP eS	07:42:48.7 22	03	eP eS	02:26:10 20
	iP iS	05:27:31.9 44.5		iP eS	10:52:31.3 52		iP eS Compression	09:35:25.7 36:21
	iP	15:56:59.7		iP iS	18:55:15.3 56:41.7		eP eS	11:33:34 53
28	iP iS Compression	05:45:21.0 51.1		iP iS	20:05:30.5 50.3		iP Compression	12:19:27.7
	iP iS Compression	07:59:48.3 00:20.3	31	iP iS Dilatation	00:31:46.8 32:02.3		eP	14:23:17
	eP iS	09:40:16 28.6		iP iS	00:57:55.5 58:10.8		eP eS	12:06:17 29
	eP eS	12:46:45 47:04		iP iS	02:05:47.1 06:22.6		eP eS	12:15:31 16:03
	eP eS	14:53:38 48		eP eS	10:08:30 46		eP eS	14:40:18 53
	eP eS	19:10:27 51		iP eS	13:32:08.7 28		iP Compression	19:47:21.6
	iP eS	21:31:05.4 37	Sep. 01	eP eS	02:14:21 43		eP iS	20:25:11 28.9
29	iP iS	02:31:22.7 57.3		eP eS	05:35:30 50	05	eP eS	04:48:26 56
	iP iS Compression	07:25:16.8 38.3		eP eS	12:36:34 54		eP iS	06:20:33 52.7
	iP eS Dilatation	07:49:16.1 39		iP eS	12:46:55.2 47:28		iP Compression	07:42:45.3
30	iP Dilatation	02:15:19.4		iP eS	22:44:08.4 29		iP eS Dilatation	08:17:09.8 34
			02	eP	03:48:34		eP eS	11:01:55 02.27

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Sep.05 1969	eP eS	13:01:28 49	Sep.08 1969	eP eS	16:13:13 26	Sep.11 1969	iP eS	09:16:36.3 17:11
	iP Dilatation	19:05:41.0		iP iS	19:20:33.2 53.1		Compression	
06	iP iS	06:19:16.6 31.6		iP iS	22:03:27.9 47.2		eP eP	10:07:52 10:09:43
	iP iS	07:10:37.0 50.3		eP eS	22:44:35 45:02		iP iS Compression	13:27:53.9 28:16.0
	eP eS	08:16:40 17:20	09	eP eS	08:26:14 57		eP	13:54:26
	eP eS	09:29:47 30:43		eP iS	09:18:53 19:14.5		eP iS	20:08:17 36.0
	eP eS	19:14:50 15:24		eP eS	11:21:07 19	12	iP iS Compression	00:46:01.6 22.0
	eP eS	20:46:26 47:02		eP eS	12:21:42 22:40		From 12 at 01:20 to 13 at 02:00 station stopped.	
	eP eS	23:32:29 33:02		eP eS	20:21:37 22:09	13	iP iS Compression	02:34:25.6 39.5
07	eP iS	04:14:35 46.7		iP eS Dilatation	21:15:37.0 55.5		iP i Dilatation	08:06:17.2 26.3
	iP eS Dilatation	08:23:18.1 37	10	eP	03:44:02		iP Dilatation	10:53:15.9
	eP eS	09:16:26 38		eP eS	06:02:24 40		iP Dilatation	13:07:12.4
	iP Compression	12:38:37.0		eP eS	09:25:10 10:56:43 57:01		eP iS	14:19:22 36.9
	eP	20:27:49		eP eS	21:33:15 26		iP Compression	15:32:01.9
08	eP iS	04:45:26 47.6	11	eP	01:02:39		eP	18:00:45
	iP eS Compression	06:58:11.2 25		eP i	01:15:59 16:16.0		eP e	21:51:02 36
	eP	07:15:59		iP Dilatation	03:06:54.4		iP iS Compression	06:49:51.5 50:04.5
	eP iS	10:28:37 53.9		eP	03:58:39	14	iP iS Compression	17:39:15.6 30.6
	eP i iS	15:25:03 14.4 15.8		eP e	06:39:31 50		Compression	

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Sep.15 1969	iP	03:14:16.4	Sep.16 1969	eP	09:42:05	Sep.18 1969	iP	04:46:41.5
	i	28.6		eS	38		iS	55.0
	Dilatation						Dilatation	
	eP	04:13:08		iP	13:32:30.8		iP	06:22:13.4
	e	14:13		iS	43.4		iS	43.4
	Dilatation			Dilatation			Dilatation	
	iP	06:10:45.0		eP	19:19:46		eP	07:12:59
	iS	56.2		eS	20:07		eP	08:00:05
	Dilatation			iP	20:42:11.8		eP	12:43:42
	iP	06:46:09.8		Dilatation			i	44:42.2
	Compression			iP	22:18:48.8		i	45:10.5
	iP	07:15:17.1		iS	19:01.4		Dilatation	
Dilatation		Compression		iP	16:25:35.3			
iP	13:04:41.4	iP	22:55:52.1	i	56.8			
iS	56.9	iS	56:13.9	Compression				
Compression		Compression		From 18 at 19:30 to 19 at app. 20:30 seismograms failed.				
iP	15:22:23.6	17 eP	02:17:08	19 iP	22:06:15.3			
iS	44.3	eS	25	iS	29.2			
Compression		Dilatation		Dilatation				
eP	16:38:04	iP	02:49:59.8	Dilatation				
iS	16.2	Dilatation		eP	23:23:30			
Dilatation		iP	03:56:53.4	iS	44.7			
eP	18:52:18	Dilatation		Dilatation				
eS	40	eP	05:40:55	20 iP	04:07:50.1			
Dilatation		iS	41:08.0	iS	08:10.3			
iP	18:54:47.8	Dilatation		Compression				
Dilatation		iP	13:01:26.5	iP	08:32:20.8			
iP	21:09:21.0	iS	41.0	i	42.0			
Compression		Dilatation		i	43.3			
iP	22:50:05.7	Compression		Compression				
i	13.2	iP	13:23:37.5	iP	10:11:13.9			
iS	24.2	iS	56.6	iS	31.3			
Dilatation		Compression		Dilatation				
16 iP	00:05:18.9	eP	19:30:20	eP	12:42:10			
iS	32.7	Dilatation		i	32.5			
Compression		iP	19:37:47.9	Dilatation				
eP	05:28:51	Compression		iP	18:35:25.0			
e	29:14	eP	19:57:27	iS	38.0			
Dilatation		eP	20:42:01	Compression				
eP	06:41:49	iS	14.0	Compression				
e	42:20	Dilatation		21 iP	00:01:02.9			
Dilatation		18 eP	02:24:07	Dilatation				
iP	07:13:12.7	Dilatation		iP	02:01:20.3			
Dilatation		iP	03:26:22.1	Compression				
eP	07:26:40	iS	38.0	Compression				
iS	52.2	Compression		eP	05:01:14			
Dilatation		Compression		e	45			

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Sep. 21 1969	eP iS	05:19:20 34.2	Sep. 23 1969	eP eS	04:47:45 48:03	Sep. 26 1969	iP iS	08:01:50.5 02:11.0
							Compression	
	iP iS	06:10:55.2 11:07.0		eP eS	13:29:47 30:19		iP i	08:23:43.5 24:18.4
		Compression					Dilatation	
	iP iS	08:25:31.7 40.3		iP iS	20:13:32.2 50.3		iP iS	11:30:27.4 41.5
		Compression			Compression		Compression	
	eP	10:25:20		iP iS	22:45:23.8 37.4		iP	15:24:35.7
	eP	11:30:25			Compression		Dilatation	
	iP iS	15:51:13.4 47.9		24 iP iS	06:47:49.1 58.9		iP iS	15:49:24.7 48.0
		Dilatation			Dilatation		Dilatation	
	iP iS	21:56:04.3 24.0		iP iS	08:56:09.4 23.4		eP	18:09:13
		Compression			Dilatation			
22	iP iS	05:08:31.9 43.0		eP iS	09:58:25 41.3	27	iP i	12:19:37.4 51.7
		Dilatation					Dilatation	
	iP iS	06:32:08.2 17.5		iP iS	12:08:18.5 52.2		iP i	12:37:33.2 49.5
		Compression			Compression		Dilatation	
	iP iS	07:51:10.4 33.6		iP	19:50:33.8		iP i	19:45:30.4 42.5
		Dilatation			Compression		Dilatation	
	eP i i	09:15:19 32.0 54.6		25 eP e	02:52:06 39		eP	20:07:12
	eP iS	10:01:31 39.0		iP	03:33:12.8		eP iS	21:23:21 35.3
					Compression			
	eP	13:22:36		iP iS	05:07:34.2 47.2	28	iP iS	05:00:03.7 17.6
	eP iS	14:50:33 51.6			Dilatation			
				eP eS	05:46:35 47:09		eP eS	07:46:03 25
	iP	16:24:57.2						
		Dilatation		eP	05:58:49		eP	10:53:49
	eP iS	21:38:46 58.0		eP	13:46:50		iP iS	11:06:53.1 07:12.8
								Compression
	eP eS	23:01:24 44		eP	19:45:03		iP	14:43:41.6
								Dilatation
23	iP	02:15:27.5		26 iP eS	01:54:40.1 59		eP	15:42:40
		Compression			Compression			
				iP iS	07:54:57.1 55:11.3		eP iS	16:11:11 27.4
					Compression			

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Sep. 28 1969	eP i	19:23:39 56.4	Sep. 30 1969	eP iS	11:12:58 13:17.0	Oct. 02 1969	iP iP iS	01:02:48 06:10:16.0 38.3
29	iP iS Compression	01:50:01.4 21.9		iP Dilatation	12:05:03.5		iP iS Compression	07:53:08.8 22.9
	eP i	02:07:38 55		iP Dilatation	12:50:50.5		iP iS Compression	08:26:46.3 57.5 58.6
	iP i Dilatation	02:40:04.0 20.3		iP eS Dilatation	12:54:52.3 55:05		iP iS i Dilatation	
	iP iS Dilatation	03:38:57.0 39:13.0		iP Dilatation	18:02:41.2	04	iP eS	05:21:53.4 22:08
	eP i	08:56:10 34.3		iP Compression	19:52:20.3		iP e iS	07:01:03.3 18 18.7
	eP e	09:41:05 36		iP iS Compression	22:16:58.3 17:13.8		eP e	10:27:54 28:25
	eP	16:39:27	Oct. 01	iP e Dilatation	03:17:34.3 18:13		eP e	11:52:28 53:25
	eP	17:57:10		eP iS	04:50:01 12.8		eP	17:15:40
	eP	18:25:23		eP e	08:17:33 18:05		eP iS	21:17:05 22.3
	eP	20:24:02		eP eS	08:48:15 34	05	iP iS	00:50:42.4 51:07.5
	eP	21:52:05		iP iS Compression	09:37:53.2 38:13.8		iP iS i	02:01:31.9 53.5 54.0
30	iP iS Dilatation	00:15:13.0 30.0		iP i Compression	10:27:50.0 28:03.5		eP eS	02:12:08 29
	iP i Dilatation	01:52:44.0 53:19.4		eP eS	14:15:52 16:10		iP iS	02:50:24.6 40.7
	eP	05:00:04		eP iS	18:29:44 30:04.2		iP iS	06:46:32.2 51.5
	eP e	06:08:56 09:27		eP iS	18:31:44 32:02.5		eP eS	06:52:53 53:04.5
	iP Dilatation	06:53:22.0		eP iS	20:01:32 55.1		iP eS	07:21:06.8 21
	eP	07:49:27		eP eS	21:00:30 42		eP i iS i	09:41:54 42:22.3 26.2 27.1
	eP i	08:24:10 38.9						
	iP e Compression	09:26:11.4 36						

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Oct.05 1969	iP	11:28:21.9	Oct.07 1969	eP	22:28:55	Oct.10 1969	iP	05:54:53.2	
	iS	35.7		iS	29:17.8		iS	55:13.6	
	i	36.4		i	19.8		iP	06:05:11.5	
	iP	13:29:28.5	08	iP	07:49:16.3		eS	25	
	iS	30:21.4		iS	28.9		iP	08:08:55.7	
	Compression			iP	10:06:28.1		iS	09:15.8	
	eP	14:03:28		iS	41.8		iP	08:33:44.3	
	eS	40:42		iS	34.6		eS	52	
	iP	15:23:07.2		eP	14:29:40		iP	11:43:28.6	
	Compression			eS	30:18		iS	45.6	
	iP	16:07:30.8		iP	19:01:45.6		Dilatation		
06	iP	01:23:03.9		eS	02:17		eP	12:53:32.3	
	iP	02:58:33.0		iS	48.6		iS	45.8	
	iS	42.8		eP	19:30:29		iP	13:04:08.7	
	i	45.4		iS	48.6		i	18.3	
	Dilatation			iP	21:42:30.6		iS	28.6	
	iP	03:35:33.6		Compression			Compression		
	iS	36:04.9		iP	22:09:45.5		iP	21:46:22.4	
	iP	08:08:11.4	09	iP	03:56:42.0		i	23.9	
	iS	43.8		iS	53.8		i	43.0	
	eP	08:38:50		Dilatation			iS	46.7	
	iP	15:32:40.0		iP	08:37:20.2		eP	22:59:50	
	iS	59.3		i	33.4	11	iP	00:26:58.8	
	Compression			eS	49		iS	27:13.3	
	iP	18:29:02.5		i	50.8		iP	03:31:34.9	
	iS	55.5		eP	11:11:19		iS	51.8	
	Compression			i	33.4		Compression		
	eP	21:25:48		iS	34.9		iP	04:13:57.1	
	eS	26:20		iP	18:28:59.1		iS	14:24.8	
	iP	21:50:17.8		iS	29:17.4		Compression		
	iS	38.7		iP	20:50:56.2		eP	11:41:03.6	
07	iP	11:54:08.8		eS	51:32		eS	34	
	i	14.0		iP	20:58:28.6		iP	12:42:59.5	
	i	33.2		eS	52		iS	43:31.9	
	iS	40.9		Compression			Compression		
	iP	02:47:19.3		iP	23:33:49.3		eP	14:30:28.4	
	iS	53.3		eS	34:23		iS	43.4	
	eP	07:12:53	10	iP	01:14:02.3		iP	23:54:09.2	
	iS	13:08.3		eS	43		iS	34.8	
	Compression			i	48.0		Compression		
	iP	18:42:32.1		iP	04:43:16.5		12	iP	05:20:06.5
	iS	43.9		iP	18.8		eS	20	
	i	44.3		i	25.6				
				iS	33.8				

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Oct.12 1969	iP 05:27:19.0	Oct.14 1969	iP 08:15:44.4	Oct.17 1969	iP 01:21:09.8
	iS 41.3		iS 54.55.2		Compression
	Compression		Dilatation		eP 08:07:29
	eP 10:49:50		iP 11:05:53.8		i 54.0
	iS 50:06.6		iS 06:06.3		iP 08:11:49.8
	iP 13:12:35.3		Compression		iS 13:16.9
	eS 44		iP 12:31:12.3		iP 10:44:02.9
	iP 14:23:34.7	15	eS 31		iS 20.6
	iS 54.9		iP 00:18:14.8		iP 15:25:52.6
	iP 16:42:33.3		iP 04:14:33.4		iS 26:11.9
	iS 49.9		iS 15:05.5		Compression
	iP 19:56:28.0		iP 05:14:16.9		iP 17:09:17.8
	iS 51.5		iS 29.9		iS 32.3
	eP 23:24:04		iP 06:08:10.4		iP 18:44:59.8
13	iP 01:55:42.6		eS 48		i 45:20.3
	iS 56:02.3		iP 15:04:01.3		iS 25.5
	iP 03:24:15.1		iS 31.5		iP 21:39:18.1
	iP 04:50:20.0		iP 15:34:02.8		iS 30.0
	eS 51:30		iS 12.3		Compression
	eP 09:41:23		Dilatation	18	eP 02:29:39
	iP 19:19:45.0		iP 16:53:25.0		eS 13
	iS 57.4		Dilatation		iP 07:39:31.4
	iP 21:16:58.3		eP 20:34:15.8		iS 50.3
	iS 17:16.0		eS 38		iP 07:56:06.3
	Compression		eP 23:28:01		iS 22.9
	iP 23:05:57.4		iP 23:59:00.6		Dilatation
	eS 06:21		iS 21.1		iP 08:43:48.3
14	iP 00:16:25.1	16	Compression		iS 44:08.5
	i 27.4		iP 01:14:45.9		Compression
	i 58.6		iS 56.3		iP 09:21:17.8
	iP 03:23:56.7		Compression		iS 34.6
	iS 24:19.6		eP 06:10:20		Compression
	Compression		eS 40		iP 11:48:36.7
	eP 04:55:20		iP 09:44:10.3		iS 51.4
	eP 06:32:33		e 32		Compression
	eS 33:05		iP 19:30:29.4		iP 15:17:55.9
			eS 48		Dilatation
			iP 20:27:05.2		iP 17:32:10.7
			iS 24.3		iS 23.2
		17			iP 17:48:03.8
			eP 00:33:49		iS 23.3
			eS 29		Compression

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Oct.19 1969	iP	00:34:51.4	Oct.21 1969	eP	16:23:59	Oct.23 1969	iP	23:11:40.2	
	iS	35:04.2		eS	12		iS	58.2	
	Dilatation			eP	22:28:59	24	eP	07:51:30	
	iP	02:24:42.8		iS	29:16.1		iS	43.9	
	iS	25:16.8	22	iP	00:46:33.1		iP	18:19:30.3	
	Compression			iS	49.2		iS	47.5	
	iP	03:13:00.2		Compression			iP	19:47:34.2	
	iS	13:15.0		iP	03:11:12.6		iS	48:04.8	
	eP	03:42:22		iS	25.8		eP	20:00:27	
	iS	37.1		iP	04:08:55.2		eS	57	
20	eP	06:36:54		iS	09:23.8	25	iP	01:06:29.8	
	iS	37:10.9		iS	26.9		iP	06:03:24.9	
	eP	07:51:36		eP	08:18:10		iS	41.1	
	iP	38.3		iP	08:18:29.5		iP	06:51:49.4	
	iS	52:17.2		iS	40.6		iS	52:09.7	
	iP	08:31:24.5		iP	10:23:04.8		iP	08:22:47.3	
	eS	56		i	21.6		i	23:01.7	
	iP	09:15:00.8		i	57.3		Compression		
	iS	13.1		eP	13:54:11		eP	08:43:07	
	iP	12:03:47.2		eS	35		eP	09:41:28	
	iS	04:22.3		eP	17:05:03		i	40.6	
	iP	13:52:09.7		eS	37		iS	47.3	
	iS	22.0		iP	17:13:31.8		iP	13:13:17.9	
	Compression			iS	14:41.2		eS	14:04	
	iP	20:00:56.2		Dilatation			iP	15:36:37.2	
	eS	01:16		iP	20:29:29.0		iS	40.9	
	eP	20:51:07		Dilatation			iP	02:01:14.8	
	eS	43		eP	23:41:37		iS	28.2	
21	iP	01:01:41.0	23	iP	01:12:54.9		iP	03:26:30.2	
	iS	56.5		iS	13:12.2		Dilatation		
	Compression			Compression			eP	08:38:02	
	iP	01:21:31.3		iP	04:34:26.8		iP	15:25:16.8	
	eS	57		iP	05:06:29.9		iS	28.1	
	iP	01:44:29.9		iS	40.2		iP	15:36:09.5	
	iP	02:40:48.7		Dilatation			i	23.9	
	iS	41:09.9		iP	13:04:09.0		iS	30.5	
	iP	11:29:29.8		eS	29		Compression		
	Compression			iP	18:03:39.7		27	eP	00:07:21
	eP	15:00:30		e	33:52		iS	36.9	
	iS	52.0		e	54				

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Oct. 27 1969	iP 00:29:21.3	Oct. 30 1969	iP 02:49:52.6	Oct. 31 1969	iP 13:26:32.5
	iP 03:16:57.9		eP 06:25:58		iP 17:45:34.8
	iP 05:26:05.3		eS 26:10	Nov. 01 1969	iP 00:34:44.0
	iS 18.4		iP 07:08:25.8		iS 35:03.9
	iP 05:47:04.2		eS 55		Compression
	eS 36		iP 08:57:07.1		iP 01:32:50.0
	iP 10:25:07.4		iS 26.8		iS 33:01.2
	i 30.3		eP 11:46:43		Dilatation
	iS 49.9		eS 47:08		iP 01:52:57.4
	iP 23:14:00.5		iP 13:28:52.5		eS 53:30
	eS 22		iS 29:03.9		eP 01:56:11
28 1969	iP 01:55:53.8		iP 13:41:05.3		eS 55
	eS 56:23.8		iS 15.1		iP 08:03:25.0
	iP 05:44:33.8		iP 17:25:52.3		eS 45
	iS 52.3		eS 54		eP 08:42:20
	iP 14:04:08.3		iP 18:27:54.9		eS 55
	iS 59.8		iS 28:26.2		iP 12:16:19.7
	Dilatation		iP 22:34:02.2		eS 51
	iP 21:10:10.3		iS 14.8		Compression
	iS 33.6		Dilatation		eP 13:46:54
	Compression		iP 22:57:43.6		eS 47:20
	iP 22:51:42.8		eS 58:12		iP 19:44:11.0
	iS 57.2		iP 22:59:17.8		iS 27.3
29 1969	iP 03:11:08.3		iS 26.2		Compression
	i 12:07.2		Dilatation	02 1969	iP 00:04:52.0
	iP 04:26:34.7	31 1969	iP 04:15:15.0		iS 05:01.3
	iS 50.4		iS 41.26.6		Dilatation
	eP 09:02:04		Dilatation		eP 03:27:10
	iS 24.9		iP 06:00:44.9		eP 29
	iP 11:20:27.5		iS 01:02.6		eP 04:28:02
	iS 44.1		Dilatation		iP 04:43:54.4
	iP 15:14:52.7		eP 08:17:28		iS 44:07.4
	eS 15:23		iS 39.9		Compression
	iP 17:32:09.6		iP 09:00:29.8		eP 05:03:47
	iS 24.6		eS 46		iS 04:15.5
	iP 19:08:47.2		iP 10:28:55.2		iP 07:07:53.5
	iS 09:10.3		iS 29:21.8		eS 08:13
	iP 21:33:41.1		iP 11:21:50.2		iP 13:39:43.2
	iS 55.0		iS 22:04.0		Compression
			Compression		

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Nov.02 1969	iP	18:14:48.1	Nov.04 1969	iP	05:09:11.3	Nov.05 1969	eP	20:25:37
	eP	18:25:15		iS	20.0		i	26:10.8
	iS	34.2		Compression			iS	26.0
	eP	19:06:43		eP	07:01:51		iP	22:08:03.6
	eS	07:16		eS	02:27		iS	09:14.4
	eP	20:06:52		Compression				
	eS	07:04		eP	10:17:40		eP	23:24:58
	iP	21:58:37.7		eS	18:18		iS	25:09.4
	iS	48.0		eP	10:39:30		06 eP	00:13:19
	Dilatation			eS	40:10		eS	42
	eP	22:19:58		eP	13:06:18		eP	01:50:40
	eS	20:22		eS	34		eS	51:02
	eP	23:52:02		iP	14:31:02.0		iP	04:54:49
	eS	34		iS	20.7		eS	55:12
03	iP	05:18:23.4		Dilatation			eP	06:08:14
	eS	44		iP	21:53:47.0		iS	18.6
	iP	06:47:20.4		iS	57.2		iP	07:55:55.2
	iS	39.8		eP	22:51:01		eS	56:07
	Dilatation			eS	15		iP	08:29:31.1
	iP	07:21:41.2		05 iP	00:23:54.4		iS	54.3
	eS	50		iS	24:09.4			
	Compression			eP	04:40:30		eP	08:56:21
	iP	07:46:09.0		i	30.8		iP	10:12:43.7
	eS	29		iS	41:58.9		iS	13:14.2
	eP	07:48:04		eP	06:17:21		iP	12:16:51.8
	eS	25		i	18:11.9		iP	12:22:19.5
	eP	07:54:15		eS	18		iS	38.0
	iP	10:24:44.3		iP	07:34:18.0		iP	19:00:25.7
	iS	56.4		eS	31		iS	49.9
	Compression			eP	11:15:58		iP	19:48:58.4
	eP	12:05:58		eS	16:18		eS	49:31
	eS	06:29		iP	12:29:23.3		eP	20:36:33
	iP	12:13:22.8		iS	36.2		eS	37:06
	eS	42		eP	12:43:01		eP	21:15:49
	eP	12:16:55		iS	19.7		eS	16:15
	eS	17:47		iP	15:21:42.1		07 iP	01:30:18.7
	eP	13:09:13		iS	22:01.6		iS	37.6
	eS	33		eP	16:08:49		Dilatation	
	eP	18:40:53		eS	09:09		iP	03:59:14.9
	eS	41:08		iP	16:36:56.4		iS	16.8
	iP	23:29:15.1		iS	37:18.2		Dilatation	
	iS	34.3		Compression				
	Compression							

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Nov.08 1969	eP eS	09:19:58 20:28	Nov.11 1969	eP eS	08:48:24 45	Nov.13 1969	iP Compression	07:52:55.1
	eP eS	11:21:06 26		iP	09:00:02.7		eP iS	09:42:36 48.3
09	eP eS	00:19:47 20:20		eP	09:36:12		eP iS	10:39:47 59.6
	iP eS Compression	02:26:25.2 27:11		eP eS	09:54:08 35		iP iP iP iS	11:21:36.2 37.0 38.0 22:07.6 12.0
	iP Dilatation	03:32:53.3		eP e iS	11:50:00 31.3 32.8		iP iS	11:50:45.6 51:18.7
	iP eS Compression	06:14:16.0 38		eP	12:16:12		iP Compression	11:55:56.7
	From 09 at 06:30 to 10 at 01:57 electric failure.			eP eS	13:23:03 33		eP eS	12:27:56 28:15
10	iP iS	02:58:47.5 59:02.6		eP e iS	18:13:27 14:06.9 23.0		eP eS	14:35:15 29
	eP eS	11:36:56 37:12		eP eS	19:53:31 54:36		eP eS	20:25:18 44
	eP iS	11:57:38 58:03.4		eP eS	20:24:55 25:30		eP iS	22:14:02 38.6
	iP eS	13:56:42.2 57:02	12	eP iS	03:20:29 56.6	14	eP iS	01:01:15 29.6
	eP iS	14:32:05 38.0		eP eS	04:23:18 39		iP iS	01:59:58.3 00:09.7
	eP eS	16:29:04 38		eP eS	04:29:55 30:18		eP eS	06:47:55 48:28
	eP	19:29:31		iP eS Compression	14:00:42.1 01:03		eP eS	07:02:34 51
11	eP iS	02:20:00 13.3		iP eS Compression	21:16:41.4 17:06		iP e eS	10:15:57.4 16:24 40
	eP iS	06:03:00 12.4		eP eS	23:52:50 53:22		iP iS Dilatation	10:51:55.0 52:08.0
	iP	06:56:18.9	13	iP iS Compression	02:53:01.0 20.7		iP Compression	11:47:16.4
	eP iS	07:48:20 55.2		iP iS	04:04:05.3 35.7		eP eS	13:18:21 43
	eP eS	08:13:20 49						

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Nov.14 1969	iP Compression	17:47:09.0	Nov.17 1969	iP iS Dilatation	06:06:22.7 44.1	Nov.18 1969	iP eS Compression	22:52:54.1 53:13
15	eP eS	00:52:02 39		iP iS Compression	08:22:12.7 33.5		eP eS	23:57:13 35
	iP eS	03:44:44.4 55		iP iS Dilatation	11:52:36.9 47.0	19	iP iS	01:31:03.4 23.1
	eP eS	05:58:34 59		iP eS	12:13:45.7 14:17		iP eS Dilatation	03:07:26.8 59
	eP eS	14:59:35 50		iP iS Compression	12:19:48.4 20:07.0		iP iS	10:37:24.2 43.7
	eP eS	17:00:58 01:18		eP eS	19:21:42 22:03		iP iS Dilatation	10:57:05.0 15.8
	iP i i i	17:59:29.2 31.2 32.4 54.0		iP eS	21:02:19.6 37		eP iS	13:24:36 49.9
	eP eS	21:50:15 51		eP eS	22:45:01 13		iP iS Compression	15:00:15.3 27.8
16	eP iS	02:15:45 16:11.8		eP iS	23:05:06 20.8		iP eS Compression	18:48:49.8 49:09
	eP eS	05:52:22 35	18	eP iS	03:17:12 26.9		iP eS Dilatation	21:53:04.9 38
	iP eS	09:55:51.1 56:03		iP iS Dilatation	06:11:14.2 27.7		iP iS Dilatation	22:49:09.9 21.0
	eP eS	09:58:54 59:23		iP iS Dilatation	09:44:24.7 40.5		iP eS	23:42:57.5 43:23
	iP iS Compression	12:31:45.6 32:05.6		iP iS Compression	13:04:03.0 23.7	20	iP iS Compression	00:16:26.4 17:01.8
	iP iS	14:35:37.0 54.8		iP iS Compression	15:38:33.0 45.0		iP iS Dilatation	02:04:21.4 47.9
	iP i i i	14:39:02.0 03.0 09.0 31.4		iP eS	18:19:08.0 29		iP iS Compression	10:34:11.5 37.0
	eP	17:24:57		iP iS	20:38:37.5 52.5		eP eS	11:54:06 55:15
	eP eS	21:00:20.2 39						

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Nov. 20 1969	iP iS Compression	12:44:03.5 24.7	Nov. 23 1969	eP iS	02:17:53 18:06.1	Nov. 25 1969	iP eS	00:34:08.5 28
	iP iS	13:32:21.5 38.7		iP iS Dilatation	03:26:33.7 47.3		eP iS	02:10:06 26.0
	eP iS	15:03:42 04:10.1		eP iS	04:14:13 46.2		iP iS Compression	03:35:17.2 29.0
	eP	17:55:46		iP iS Dilatation	10:46:09.7 32.8		iP iS Compression	05:38:16.6 36.8
	iP iS Compression	18:16:20.8 38.2		iP eS Dilatation	12:19:40.6 20:04		eP eS	09:19:50 20:25
	eP	20:58:56		eP	16:18:24		iP iS Compression	10:37:28.3 41.4
	eP	21:27:16		eP i iS	19:03:41 04:08.2 15.8		iP i Compression	17:05:41.8 53.0
	iP eS	21:35:51.5 36.11		iP eS Compression	23:41:39.9 42:00.3		eP iS	18:42:12 45.0
21	eP eS	01:40:47 41:13	24	iP eS Compression	01:55:49.7 56:05	26	iP iS Compression	04:16:12.9 23.5
	iP eS Dilatation	06:04:15.7 49		eP	02:14:16		iP i Compression	11:27:32.0 42.7
	iP iS Compression	07:50:20.8 55.4		iP iS Compression	03:48:10.0 24.9		eP iS	13:03:16 39.3
	eP iS	08:12:33 13:05.9		eP iS	06:00:48 01:29.3		iP i i Dilatation	13:43:37.3 43.1 44:00.5
	iP iS Dilatation	12:17:50.2 18:09.4		eP iS	09:42:03 17.8		iP iS Compression	13:46:41.2 57.3
	iP iS	17:40:12.3 14.9		iP eS	10:03:41.1 04:09		eP	14:09:29
	iP iS Compression	18:15:39.8 53.0		iP iS Dilatation	12:25:56.5 26:11.2		eP iS	17:24:28 41.6
	iP iS	18:28:42.5 58.7		eP eS	19:25:53 26:17	27	eP eS	00:21:28 59
	iP iS Compression	19:05:36.0 54.8	25	iP eS	00:20:33.8 53		eP iS	01:28:35 54.7
23	iP iS Compression	01:19:31.1 43.0						

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Nov. 27 1969	iP iS	02:43:02.9 16.1	Nov. 29 1969	eP iS	08:56:36 47.7	Dec. 01 1969	iP eS	12:05:04.5 36.1	
	iP iS	06:41:04 21.6		eP eS	22:18:40 50		iP iS	12:43:19.5 33.4	
	iP iS	07:42:41.3 56.0	30	iP i iS	04:53:40.5 51.0 52.1		iP iP	19:38:01.9 20:43:22.1	
	eP iS	13:32:05 24.7		Compression			iP eS	22:20:18.8 39.5	
28	eP	05:32:50		eP i	07:42:42 43:22.7		02	iP eS	02:06:28.5 50.1
	iP iS	11:21:34.0 46.0		iP iS	07:51:37.8 57.6			iP eS	02:21:39.7 54.6
	Compression			Compression				Dilatation	
	iP iS	12:44:01.8 23.9		eP	08:53:25			iP iS	03:31:36.1 48.1
	Dilatation			Dilatation				Dilatation	
	eP e eS	14:00:13 23 31		iP eS	13:28:57.5 29:33			iP iS	04:08:44.5 55.0
	iP eS	14:34:49.0 59.0		eP	14:10:02			Dilatation	
	Compression			(*)				iP eS	07:01:38.7 02:17.2
	iP iS	18:40:58.9 41:21.0	Dec. 01	iP iS	05:13:19.1 31.6			iP eS	09:45:38.5 52.2
	Compression			Compression				iP iS	11:08:49.2 09:04.8
	iP i	20:15:19.6 52		iP eS	05:24:13.3 36			iP iS	12:45:43.2 56.4
	Dilatation			iP eS	05:25:10.3 22.1			iP iS	15:47:18.4 48:11.0
	eP i iS	20:44:47 50.2 45:09.0		iP iS	06:11:49.0 12:09.2			Compression	
	iP eS	22:57:06.4 29		Compression				iP eS	16:17:26.7 45.5
29	eP iS	01:52:34 48.0		iP eS	06:24:39.1 25:01			Dilatation	
	eP i i i iS	03:14:58 59.0 15:01.5 24.4 40.8		iP iS	07:48:37.3 56.6			iP eS	17:40:07.0 41.5
	iP iS	08:07:23.8 38.4		iP eS	08:46:58.9 47:10.4			Compression	
	Compression			Compression				iP	18:05:07.6
				eP eS	11:40:37.5 51			iP iS	19:55:18.5 37.0
				Compression				Compression	

(*) Nov. 30 iP 19:37:05.6
iS 16.7
Compression

Nov. 30 iP 23:30:15.2
Compression

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Dec.02 1969	iP	21:36:07.1	Dec.04 1969	iP	05:54:29.9	Dec.06 1969	iP	06:19:12.6
	iS	19.1		eS	42		eS	32.5
	iP	22:48:00.4		iP	09:34:02.7		iP	11:02:54.6
	eS	27.7		eS	36.1		eS	03:09.4
	eP	23:49:46		Dilatation			iP	12:50:32.1
	eS	56.6		eP	10:00:15		iP	13:40:23.8
03	iP	01:02:48.8		iS	40.5		eS	40.6
	eS	03:08.5		eP	10:49:56		iP	16:05:38.4
	iP	03:27:45.6		eS	50:07.1		iS	54.7
	eS	55.8		iP	11:09:04.4		iP	19:11:46.3
	iP	06:54:34.7		iS	22.1		iS	12:19.1
	eS	45.9		iP	15:53:03.5		eP	19:32:59
	iP	07:57:28.6		eS	24.8		eS	33:31
	iS	43.2		iP	22:53:47.9		iP	19:41:29.6
	iP	11:07:45.5		eS	54:14.7		eS	46.9
	iS	08:07.0		iP	23:43:08.4		iP	23:10:22.0
	Dilatation			iP	23:54:29.3		eS	11:09.6
	iP	12:26:58.1		eS	55:44.2		iP	23:26:26.8
	eS	27:21.4		05			eS	50.3
	Compression			iP	05:24:04.9		07	
	iP	12:47:15.5		iS	15.7		iP	01:43:29.5
	iS	31.5		iP	06:50:49.0		iS	57.7
	Dilatation			eS	51:13.2		Compression	
	iP	15:13:24.8		iP	09:15:15.0		eP	03:19:23.7
	iS	39.6		eS	43.3		eS	58.8
	iP	16:58:28.7		iP	10:24:19.2		iP	04:47:17.8
	eS	46.8		eS	48.3		eS	45.1
	iP	17:56:29.3		iP	12:48:13.2		iP	05:37:08.0
	iS	56.1		iS	28.2		eS	17.7
	eP	22:55:35		Dilatation			Dilatation	
	eS	48.3		iP	20:08:03.7		iP	06:06:17.0
	iP	22:56:35.8		iP	22:56:44.0		eS	28.4
	iS	47.7		eS	57:01.3		iP	07:08:05.1
04	iP	00:32:49.1		06			iS	18.2
	eS	33:22.2		iP	00:14:04.9		iP	07:18:38.4
	iP	02:51:20.2		eS	29.9		eS	19:17.5
	eS	48.3		iP	02:42:55.7		iP	07:59:57.6
	iP	05:21:30.9		iP	04:23:45.9		eS	00:18.0
	eS	22:04		eS	24:05.1		Compression	
	iP			iP	04:57:36.4		iP	10:53:44.6
	eS			iS	54.3		eS	54:03.2

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Dec.07 1969	iP	13;08:24.2	Dec.09 1969	iP	00:31:14.0	Dec.10 1969	iP	16:10:32.2
	eS	50		iS	27.0		Dilatation	
	iP	14:32:11.9		eP	00:32:45		iP	19:32:40.1
	eS	21		eS	33:05.3		eS	52.5
	iP	16:12:14.2		iP	01:33:08.9		iP	21:40:45.4
	eS	33.2		iS	25.5		eS	41:19.3
	Compression			Compression			iP	23:37:08.4
	eP	19:51:48		iP	08:16:49.6		iS	37.5
	eS	52:09.2		eS	17:15.9		iP	23:40:31.9
	iP	21:08:19.2		iP	13:05:03.2		eS	51.2
	iS	34.7		iS	13.6		11 iP	00:39:57.5
	Compression			Dilatation			eS	40:09.6
	iP	23:07:22.8		iP	16:29:27.5		iP	03:54:08.0
	eS	43.8		iS	48.1		eS	19.2
	iP	23:57:32.1		iP	21:20:24.1		iP	05:18:46.1
	iS	54.0		iS	35.0		eS	19:07.8
	Compression			Compression			iP	13:16:26.1
08 iP		00:48:24.2		iP	21:55:30.0		eS	38.9
	eP	02:22:02		iS	56:02.1		iP	15:25:20.5
	eS	19.0		Compression			eS	40.2
	iP	06:26:24.7		iP	23:40:32.5		iP	16:44:43.8
	iS	40.6		eS	50.6		iP	16:56:52.4
	Compression			10 iP	00:40:13.1		Compression	
	iP	08:50:00.1		iS	27.2		(*)	
	eS	36.8		Dilatation			iP	17:47:28.8
	iP	10:09:54.3		iP	00:46:01.8		eS	48.6
	eS	10:07.1		eS	30.8		iP	17:52:29.1
	iP	13:14:52.8		iP	03:53:01.4		iS	32.6
	iS	15:15.9		eS	14.9		Compression	
	Compression			iP	08:29:57.0		iP	17:58:12.0
	iP	16:44:03.4		eS	30:10.9		iS	28.9
	Dilatation			Dilatation			Compression	
	iP	17:21:50.3		iP	12:13:22.5		iP	18:35:50.6
	eS	22:17.1		eS	53.9		eS	36:21.9
	iP	18:16:38.7		iP	12:36:22.9		iP	18:50:13.2
	eS	55		eS	35.2		iS	17.5
	iP	18:17:18.6		Compression			Compression	
	eS	30.3		iP	15:03:54.7		iP	22:33:53.5
	iP	19:06:48.1		iS	04:08.0		iS	13.2
	iS	07:17.5		Compression			Compression	
	iP			iP	15:29:02.2			
				eS	35.6			

(*) Dec.11 From 17:37 to 18:18 station stopped.

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Dec.11 1969	iP 23:40:25.9 eS 51.2 Compression	Dec.13 1969	iP 21:35:45.6 iS 35.8 Dilatation	Dec.15 1969	eP 22:13:02 iS 13.9 Compression
12	iP 01:40:36.4 eS 50.2	14	iP 03:02:09.9 iP 03:28:01.6 iS 14.4 Dilatation	16	iP 15:29:25.9 iS 40.6 Compression
	iP 01:41:02.1 eS 24.3		iP 04:01:26.2 eS 43.2		iP 21:13:56.6 iS 14:49.7 Compression
	iP 07:10:30.6 iS 49.2 Compression		iP 04:57:59.7 eS 58:16.8	17	iP 01:11:31.1 iS 12:12.4
	iP 07:58:05.4 eS 33.2		iP 10:59:07.2 eS 21.5		iP 01:44:34.7 eS 45:08.8 Dilatation
	iP 08:33:15.8 eS 34.7		iP 14:12:18.2 iS 29.1 Dilatation		iP 06:48:40.5 Dilatation
	iP 09:50:50.6 iS 51:05.2 Compression		iP 15:52:36.7 eS 55.2		iP 09:06:40.2 eS 07:14.6
	iP 13:16:44.6 eS 17:16.7		iP 16:41:18.5 eS 48.5		iP 09:31:12.8 iS 33.3
	iP 15:02:45.3 iS 50.0 Compression		iP 19:25:35.1 iS 26:09.9 Compression		iP 10:25:04.9 iS 27.6
	iP 17:10:12.3 iS 46.4 Compression	15	iP 03:32:49.0 iS 33:00.8 Dilatation		iP 11:21:16.0 eS 32.3
	iP 19:20:14.3 eS 24.6		iP 07:13:38.7 eS 14:04.0		iP 13:41:13.3 iS 36.3 Dilatation
	iP 19:27:09.2 iS 40.0 iS 41.8		iP 08:08:52.2 eS 09:25.7		eP 14:58:54 eS 59:10.2
	iP 20:33:03.5 eS 19.8		iP 08:50:13.7 iS 28.6	18	iP 00:50:52.8 i 53.1 eS 51:24.6 e 27.8
	iP 21:45:23.2		iP 15:10:10.0		eP 03:58:17 eS 44.8
	iP 23:09:12.5 eS 26.0		iP 21:50:07.1 eS 25		iP 04:53:02.0 eS 54:07.9
	iP 23:40:02.6 eS 30.2		iP 22:12:12.7 iS 23.6 Compression		iP 10:16:46.1 iS 57.6
13	iP 01:40:33.9 (*) iP 20:59:28.2 iS 48.5 Compression				iP 10:41:51.3 eS 42:03.3 Compression

Dec.13 From 05:00 to 19:55
station stopped

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Dec.18 1969	iP 11:51:20.0 iS 39.4 Compression	Dec.20 1969	iP 10:05:12.0 eS 38.3 eP 12:33:45 eS 34:14.2 iP 16:39:46.1 iS 59.9 21 iP 00:27:51.7 iS 28:26.7 Dilatation iP 00:49:59.2 eS 51:17.0 iP 01:30:41.8 eS 31:01.8 Dilatation iP 02:08:38.7 iS 59.3 Compression iP 06:28:03.3 eS 18.2 iP 06:38:13.1 eS 24.7 iP 09:51:23.1 eS 34.8 iP 11:16:47.9 eS 17:20.6 iP 12:10:28.0 iS 46.9 Dilatation iP 13:05:34.7 eS 06:48.7 Compression iP 14:37:01.7 iP 17:46:26.1 iP 18:10:37.4 iP 19:05:41.2 iS 06:14.9 iP 21:09:24.3 iS 57.4 Compression	Dec.22 1969	iP 00:07:40.6 iS 08:53.1 iP 00:11:51.8 eS 12:24.6 iP 02:06:32.1 iS 45.6 Compression iP 04:06:59.7 eS 07:32.5 iP 05:46:58.7 eS 47:32.2 iP 06:19:52.1 Compression iP 06:29:55.8 iS 30:14.3 Compression iP 10:20:26.7 eS 43.1 Dilatation iP 11:35:13.1 iS 28.7 iP 14:42:06.6 eS 16.2 iP 16:19:48.0 eS 20:01 iP 18:52:25.3 eS 35.9 23 iP 01:40:45.8 iP 08:03:41.3 iS 53.6 Compression iP 11:42:18.8 eS 28.6 Dilatation iP 12:46:20.7 iS 42.6 iP 14:42:19.7 eS 36.1 iP 14:50:40.1 iS 53.2
	iP 13:03:09.5 eS 29.7 Compression iP 13:21:52.1 iS 22:19.0 Compression eP 13:51:04 eP 15:10:03.5 iP 15:45:49.7 iS 46:06.5 iP 18:18:24.0 iS 58.8 Dilatation iP 19:22:30.3 iS 23:03.1 Compression iP 23:45:09.2 eS 22.8				
19	iP 00:19:33.2 iS 48.2 Dilatation iP 00:41:38.9 iS 42:01.8 Dilatation iP 10:52:33.3 eS 53:19.9 iP 11:20:05.9 iS 17.9 iP 21:49:59.0 Dilatation				
20	iP 03:57:47.0 eS 59:09.2 iP 05:08:51.0 eS 09:12.6 iP 07:49:52.9 eS 50:15.1 iP 18:32:20.4 eS 43.3 Compression				

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Dec. 24 1969	iP eS	00:45:26.6 41.6	Dec. 25 1969	iP eS	05:21:08.1 22.3	Dec. 26 1969	iP eS	23:09:34.6 10:11.7
				Dilatation				
	iP iS	01:05:03.9 16.0		iP eS	07:03:47.4 04:18		iP eS	23:44:49.6 45:23.4
	iP eS Compression	03:16:27.7 45.4		iP eS	11:36:31.7 37:08.6		27 eP eS	02:49:04 26.5
	iP Compression	04:39:20.1		iP eS	15:00:10.1 24.6		iP iS	03:40:20.0 35.4
	iP eS	04:55:22.1 44		iP	17:57:36.5		iP eS	06:34:50.4 35:23.3
	iP iS Compression	06:20:54.4 21:24.9		iP	21:39:58.1		iP iS	07:25:30.1 40.0
	iP iS	06:12:56.0 13:19.1		iP iS	23:36:12.9 25.0		iP eS Compression	08:11:12.6 34.9
	iP Dilatation	06:43:26.1		iP iS	23:45:23.0 36.7		iP eS	17:45:07.4 22.5
	iP iS Compression	12:52:33.0 49.1	26	iP eS Compression	00:50:15.1 36.5		iP eS Compression	17:51:16.7 22.8
	iP eS Dilatation	13:46:08.6 20.2		iP eS	03:55:50.9 56:02.8		iP eS Dilatation	19:45:21.0 40.9
	iP iS Compression	13:50:44.7 51:04.1		iP eS	04:37:50.0 38:12.6		iP eS	21:34:36.0 58.7
	iP iS	14:26:25.7 47.0		iP iS Compression	12:03:30.0 50.3		iP iS Compression	22:07:15.7 32.5
	iP	16:52:03.5		iP eS	13:03:06.7 25.8		28 iP eS	02:26:10.9 42.7
	iP eS	18:03:07.5 13.2		iP i eS	14:27:51.2 28:03		iP iS Compression	06:17:24.8 43.2
	iP eS	22:25:12.6 22.3		iP eS	14:32:46.0 46.2 33:00		iP eS	07:14:52.9 15:13.3
25	iP eS	00:32:31.7 50.4		iP eS	14:49:31.0 42.7		iP iS	08:44:50.3 45:10.1
	iP eS	04:28:33.4 29:07.4		iP eS	18:52:10.6 30.1		iP eS	09:07:37.5 08:18.6
	iP iS	05:08:11.9 24.4		iP eS	21:57:11.1 22.5		iP eS	09:43:30.3 46.2

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Dec. 28 1969	iP iS	10:20:25.8 45.9	Dec. 30 1969	iP iS	03:34:33.2 50.3
	iP eS	12:05:24.4 49.5		iP eS	09:04:56.8 05:23.3
	iP iS	13:04:28.7 42.2		iP eS	17:29:05.0 44.3
	iP	13:27:37.2		eP eS	18:39:22 40.8
	iP eS Compression	19:17:32.2 18:14.2		iP eS	18:48:55.0 59.7
29	iP iS Dilatation	00:51:54.8 52:04.2		iP eS	22:13:37.2 14:33
	iP iS	04:30:30.7 43.0		iP eS	22:20:08.4 52.3
	eP eS	04:51:58 52:37.2	31	iP iS	03:36:22.2 36.8
	iP iS Dilatation	07:25:12.9 28.8		iP eS	03:56:21.7 44.6
	iP eS	07:40:44.9 59.6		iP eS	04:24:56 25:20.1
	iP eS	07:48:18.3 39.5		iP eS	09:05:10.2 19.8
	eP eS	09:55:46 56:17.2		iP eS Compression	15:52:59.8 04.5
	iP eS	10:31:30.3 32:00.4		eP eS	17:51:23 50.4
	iP eS	11:02:46.7 04:07.9		iP	23:57:51.2
	iP eS	18:28:23.8 38.1			
	iP iS	20:03:58.9 04:14.0			
	iP eS	22:58:47.5 58.6			
	iP iS	23:46:59.2 47:32.7			