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UNIVERSIDAD DE CHILE CASILLA 2777
 Instituto de Geofísica y Sismología SANTIAGO, CHILE

PROVISIONAL READINGS AT SANTIAGO
 (SANTA LUCIA)

Jan. 29	eP	07 56 18	5	eP	01 12 00
1960	ePcP	57 19		eS	16 00
	e	59 14		e(SS)	36
	eS	08 04 23		Distance	22°
	eScS	06 09	5	eS	20 54
	eQ	10 31		e(SS)	21 36
	eR	14 05		Distance	22°
	Dilatation		-5	iP!	02 06 58
	Distance	60°		e	08 30
	Slight depth			eS	10 55
29	eP	12 24 43		e(SS)	11 36
	iS	56		Compression from	S?W
	Dilatation			PH	3,5 u 8 sec
	Distance	110 km		PZ	3,1 u 8 sec
30	e	19 44 12		Distance	22°
31	e	19 48 56		eP	12 19 13
Feb. 1	e	02 54 20	5	Local	
1	e	07 17 56		e	04 47 08
2	e	07 09 32	-7	e	51 00
2	eP	09 14 18		eP	10 26 41
	e	15 02	-7	Local	
	eS	08	-7	e	11 53 42
	Distance	400 km		e	59 08
	Felt in Vallenar (IV)			eP	04 45 57
	Copiapó (V)		8	e	46 05
3	eP	04 44 00		eS	10
	e	54		Distance	110 km
	ePcP	45 24		iP	12 51 03
	ePP	48	8	iS	55 23
	e(SSS)	57 00		eR	58,3
	eR	05 01 32		Compression from	SW
	Distance	53,5° ?		PH	12 u 4 sec
	Depth	100 km ?		PZ	13 u 4 sec
3	e	16 52 38		Distance	25,2°
	e	54 08		eP	21 57 51
	eR	17 12 08		e	58 18
4	eP	04 02 24	8	eS	34
	e(P')	05 52		e	59 00
	ePP	07 12		Distance	400 km
	e(sPP)	07 48		eP	03 28 49
	e	13 26	9	eS	29 01
	e	14 36		Distance	100 km
	eS	15 24			
	ePS	17 00			
	e	19,5			
	eSS!	23,7			
	eG	35,3			
	eR	44,5			
	SSH	45 u 48 sec			
	SSZ	7 u 48 sec			
	GH	75 u 52 sec			
	MH	65 u 28 sec			
	MZ	45 u 28 sec			

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Additional:			eS	46
Jan. 31	e	05 24 36	e	53
31	e	40 23	Distance 130 km	
	e	43 05	13 eP	13 50 31
	e	45 55	Local	
	e	50 35	13 eP	16 00 44
	e(SS)	52 41	Local	
	e	54 37	13 iP	17 37 28
	e	06 01 07	e	36
	e	03 23	e	50
	e(L)	22 16	iS	55
Continuation:			Compression from N?E	
Feb. 9	eP	04 16 33	Distance 220 km	
	Local		13 eP	20 43 49
9	e	13 07 43	eS	46 50
	e	13 51	e(SS)	47 20
	e	18 46	ePcP	48 41
	e	23 00	iScS	55 34
	e	26 11	Dilatation from N	
10	eP'	00 15 21	SH 5,8 u 8 sec	
	e	16 51	Distance 16°	
	ePP	18 09	Depth 180 km	
	ePKS	58	14 iP	05 22 22
	e	20 21	e	38
	eSKS	22 45	e	23 08
	ePS	28 51	eS!	34
	ePPS	30 25	e	25 46
	e	31 53	ePcP	28 41
	eSS	36 31	Compression from NE	
	eSSS	41,4	PH 10 u 8 sec	
	eQ	52--	PZ 6,5u 8 sec	
	Distance	142°	SH 21 u 3 sec	
	P'Z	2,5 u 10 sec	SZ 10 u 3 sec	
	PPZ	3 u 8 sec	Distance 660 km	
10	eP	21 50 38	Depth 300 km	
	Local		14 eP	09 37 36
10	eP	23 33 05	eS	44
	ePP	36 37	Distance 66 km	
	e	39 37	15 eP	02 38 38
	e(SKS)	43 35	Local	
	eS	44 01	15 eP	05 07 02
	ePS	45 05	Local	
	eSS	50 05	15 iP	10 57 32
	eR	00 01 43	iS	58 12
	Distance	90°	Distance 90 km	
11	iP!	12 54 21	16 e	13 38 58
	eS	32	e(R)	42 28
	Dilatation from S		17 e(S)	05 03 19
	Distance	90 km	e(Q)	06 00
	Felt in Santiago		eR	38
	Province(III-V),			
	Valparaiso Prov.			
	(II-III),Aconcagua			
	Prov.(II-III),			
	O'Higgins Prov.(II-V)			
11	e(R)	21 47 47		
13	eP	10 59 27		

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Mar. 1 1960	eP eS Distance 410 km	18 18 02 47	8	iP ipP isP iPP epPP esPP esKS epSKS	16 47 18 48 18 43 51 37 52 34 58 57 36 58 16
1	eS eSS eSSS eR Distance 93°	20 22 59 29 21 32 51 40 35		eS eSP ePPS eSS! e i(P'P')	44 17 00 24 02 06 06 14 07 23 10 58
2	eP Local	18 41 26		e eQ e eR	13,5 16 34 18,5
3	e eL eR	11 40 42 42 08 43 50		Distance 104° Depth 250 km PZ 1,8u 6 sec PH 1 u 6 sec PPZ 3,5u 8 sec SKSH 18 u 16 sec MH 13 u 40 sec MZ 6 u 40 sec Magnitude 6 3/4 - 7	02 06 06 14 07 23 10 58 13,5 16 34 18,5
3	eP eS e Distance 940 km Felt in Chiloé Is- land (III)	15 42 12 43 48 44 19		eR	18,5
4	MZ 1,5 u 3 sec MH 4 u 3 sec eP' epP' eP' ₂ ePP ePS eSS e e Distance 170° Depth 80 km	04 12 53 13 30 14 22 18 00 27 44 39 32 52,7 57,3 05 07 --	8	Local eP eS Distance 260 km iP ipP i eS Dilatation from NW Distance 16,7° PH 14 u 12 sec PZ 13 u 12 sec SH 90 u 12 sec Felt: Arica III, Iquique II	17 03 05 25 13 05 27 57 23 58 16 42 59 40 00 01 20
5	eP' ePKS e ePS eSS eSSS eG eR Distance 144° GH 17 u 70 sec	14 08 48 12 36 14 40 22 30 30 40 35 52 48,5 55 --	9	eL eP eS eSS eSSS eG eR Distance 82° eP eS Distance 140 km iP eS ePPS eG eR Compression Distance 91°	00 50,5 00 52 30 01 02 30 07 46 10 58 13,5 16,8 10 13 24 42 13 57 36 14 08 18 10 10 21 58 26 10
6	eQ eR e eP eS Distance 440 km	03 21 51 30,5 04 31 51 06 06 13 07 01	10	Distance 91°	00 52 30 01 02 30 07 46 10 58 13,5 16,8
6	eP eS Distance 440 km	06 06 13 07 01		Distance 82°	01 02 30 07 46 10 58 13,5 16,8
7	iP Compression Local	05 32 47		Distance 140 km	13 57 36 14 08 18 10 10 21 58 26 10
8	e e(S) e(SS) e(G) e(R) Distance 65° ?	11 12 34 12 10 58 15 28 18 38 20 02	10	Distance 91°	10 13 24 42 13 57 36 14 08 18 10 10 21 58 26 10
8	e(R)	13 07 58		Distance 91°	26 10

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Mar. 10	eP	14 52 08		MH	3,5 u 24 sec
1960	eS	32		MZ	4 u 24 sec
	Dilatation		17	e	12 16 16
	Distance	200 km		e	21 36
10	eP	15 23 08		eR	25 16
	eS	16	17	ePPP	21 41 04
	Dilatation			eSS	51 58
	Distance	70 km		eSSS	55 30
10	eP	17 08 39		eQ	58,8
	eS	09 21		eR	22 02,5
	Distance	370 km		Distance	86°
10	e(S)	19 12 10	17	eP	18 40 14
	e(SS)	16 30		Compression	
	e(G)	19 58		Local	
	e(R)	22 58	18	eP	22 27 08
11	eL	00 07 00		eS	28 16
11	e	05 19 48		eSSS	48
	eL	27 00		e	31 32
12	eP	13 48 47		Distance	640 km
	eS	49 25		MH	9 u 10 sec
	e	55		MZ	9 u 10 sec
	Compression from S			Felt:Valdivia Prov.(III-IV)	
	Distance	340 km	19	eP	06 22 46
12	eP	21 36 12		eS	23 10
	eS	34		Distance	200 km
	Distance	180 km	19	e	19 38 32
12	ePP	20 51 19		e	20 12,5
	ePS	21 01 23		eR	19,5
	eP'P'	06 59	20	eP'	17 27 28
	eSS	08 13		epP'	40
	eG	22 19		e	48
	eR	28 --		eP ₂	54
	Distance	125°		ePP	31 14
13	eP	14 44 31		ePPP	34 34
	eS	50		ePcFPPK	35 48
	Distance	150 km		eSKKS1	38 01
13	e(R)	21 06,4		eSKKS2	28
13	e(R)	21 55 48		e	40 44
14	eP	00 01 20		ePS	42 32
	eS	07 34		ePPS	44 14
	eG	10 52		e!	46 14
	eR	13 16		eSS	50 48
	e(Lg)	15 20		ePSS	51 44
	Distance	42,5°		eSSS	56 36
14	e	10 15 02		eQ	18 09 20
	eR	21,3		eR	17 08
15	e	20 17 48		Dilatation from NW	
	eL	21 30		Distance	151°
16	e	00 47 02		P'H	1,5 u 10 sec
	eQ	49 00		P'Z	5 u 10 sec
	eR	52,2		PPZ	7 u 24 sec
16	e(P)	17 53 --		MH	100 u 20 sec
	eSKS	18 03 00		MZ	60 u 20 sec
	eS	30		Magnitude	7 1/2
	eSKS	04 38			
	eSS	09 38			
	eQ	16 00			
	eR	21 30			
	Distance	92°			

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Mar. 21 1960	eP'	00 54 50	27	eSKS	04 14 05
	eSS	01 18 07		ePS	16 47
	eSSS	23 53		eSS	22 47
	eQ	38 00		eQ	33 07
	eR	44 29		eR	39 27
	Distance 154°			Distance 110°	
	MZ	3 u 20 sec		MH	3,5 u 26 sec
	MH	3,5 u 20 sec		MZ	2 u 26 sec
	Magnitude 6			Magnitude 5 3/4	
21	eSS	10 03 00	27	eP	04 55 54
	eQ	21 24		eS	56 29
	eR	28 24		Distance 310 km	
21	eS	19 54 59	27	eP	09 12 27
	e	56 05		ePP	16 55
22	eR	02 15,7		ePPP	19 33
22	eP	02 43 27		eSKS	23 03
	e(pp)	56		eS	24 41
	eS	53 53		ePS	26 15
	ePS	54 45		ePPS	27 31
	eSS	58 43		e	29 07
	eSSS	03 03 11		e	31 03
	eQ	05,5		eSS	32 07
	eR	08,5		eSSS	36 05
	Distance 80°			e(P'P')	43
	Deeper than normal?			eQ	42 47
22	eQ	20 09 00		eR	48 47
	eR	14,4		Distance 110°	
23	eP ₁	00 43 19		MH	8,5 u 28 sec
	eP ₂	45		MZ	6 u 28 sec
	ePP	47 07		Magnitude 6	
	eSKS	50 17	27	eP	13 20 27
	eSKKS ₁	53 55		eS	21 21
	ePS	57 25		Distance 500 km	
	ePPS	59 57	27	eP	16 22 58
	e	01 02 11		eS	51
	eSS	06 39		Distance 500 km	
	eSSP	07 20	27	ePP	20 28 09
	eSSS	12 23		e(ScP)	30 25
	eQ	26,5		eS	34 25
	eR	33,5		eQ	39 55
	Distance 152°			eR	44 23
	P'Z	1 u 8 sec		Distance 62°	
	PPZ	5 u 12 sec	27	eP	23 40 41
	MZ	19 u 20 sec		eS or SKS	50 55
	MH	25 u 20 sec		ePPS	52 27
	Magnitude 6 1/2 - 6 3/4			eQ	00 51 51
23	eP ₁	22 42 40		eR	00 00 --
	eP ₂	43 23		Distance 84°	
	eSKKS ₁	53 05	28	eP	00 21 37
	e	23 01 30		eS	27 57
	eSS	06 00		eQ	31 27
	eSSS	12 --		eR	33 --
	eR	32 00		Distance 43°	
	Distance 153°			SH	6 u 12 sec
26	eQ	15 50 48		MH	11 u 20 sec
	eR	16 03,5		Magnitude 6-6 1/4	

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Mar. 28	eP	02 06 34	6	eP	02 08 24
1960	eS	47		e	09 08
	Distance	110 km		eS	11 04
29	e(S)	06 35 11		e	12 24
	eL	40 37		Distance	13°
	eR	42 37		Felt:	Tarapacá and
29	eS	06 57 09		Antofagasta Prov.	(III-V)
	ePS	58 37	6	iP	21 10 00
	eSS	07 04 29		iS	46
	eSSS	08 01		Distance	320 km
	e(P'P')	09 46	8	eP	00 08 40
	eQ	14 33		e	09 28
	eR	19 55		eSKS	18 52
	Distance	107°		ePS	20 24
	Deeper than normal?			eSS	25 32
	SH	4,5 u 12 sec		eSSS	28 48
	MH	19 u 20 sec		eQ	31 24
	MZ	19 u 20 sec		Distance	90°
	Magnitude	6 1/2 - 6 3/4		10	iP
29	e	22 48 29		iS	08 53 08
	eQ	23 04 01		Dilatation	42
	eR	10 01		Distance	300 km
30	ePS	11 18 11		MH	8 u 1 1/3 sec
	eSS	24 37	12	eP	20 05 34
	eQ	35 43		iS	48
	eR	40 45		Distance	120 km
	Distance	113°		13	iP
	MH	5 u 28 sec		eS	00 14 08
	MZ	4 u 28 sec		Dilatation	15 02
30	eS	15 44 11		Distance	120 km
	ePS	45 57	13	iP	12 46 57
	ePPS	46 37		eS	54 23
	e	47 47		eQ	58 11
	eSS	51 25		eR	13 02 35
	eQ	16 00 01		Compression	
	eR	04 37		Distance	53°
	Distance	102°		13	iP
31	e(P)	04 21 06		iS	18 56 45
	eQ	24 48		Dilatation from W	57 02
	eR	25 40		Distance	140 km
Apr. 1	e(P)	13 23 00		15	eP
	eS	26 14		ePP	03 32 53
1	eP	23 00 06		eS	34 21
	eS	00 30		eQ	38 45
	Distance	200 km		eR	41 31
5	eP	12 43 51		Distance	37,5°
	ePP or PcP	45 36		SH	8 u 10 sec
	e	47 26		MZ	10 u 8 sec
	e	48 52		MH	35 u 8 sec
	eS	50 08	20	iP	15 30 35
	eQ	52 52		iS	32 30
	eR	55 48		Dilatation	
	Distance	41,5°		Distance	16°
	MH	4 u 20 sec		21	eS
	MZ	4 u 20 sec		eQ	02 32 00
	Magnitude	5		eR	36 34
					39 16

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PROVISIONAL READINGS AT SANTIAGO
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1960									
May	2	e	08 52 08	May	11	eSKSP	18 59 36		
		e	56 00			eSSS	19 11 56		
		eS	09 01 36			e	16 36		
		e	07 14			eQ	22 20		
		e	12 30			e	29 50		
		eR	16 40			eR	32 40		
	4	i	12 29 52			Distance 142°			
		Local			11	eP	20 25 55		
	4	iP	18 57 29			eS	26 17		
		eS	41			Distance 180 km			
		Dilatation			12	eP	22 40 27		
		Distance 90 km				ePP	42 07		
	4	e	19 01 47			ePcP	25		
		eQ	11 07			ePPP	43		
		eR	15 31			eS	46 43		
	5	eP	00 23 29			eQ	50 07		
		eS	24 50			eR	52 57		
		Distance 760 km				Distance 42°			
	8	eR	02 43 06			Pz 3 u 6 sec			
	9	ePP	20 23 06			PH 3 u 6 sec			
		eS	27 06			SH 12 u 12 sec			
		eQ	30 26			MH 12 u 20 sec			
		eR	32 46			Magnitude 6			
		Distance 43° $\frac{1}{2}$			13	ePS	16 36 52		
		Mz 5 u 20 sec				eSS	43 22		
		MH 6 u 20 sec				eSSS	47 38		
	10	eP	09 34 56			eQ	56 02		
		eS	36 40			eR	17 02 02		
		Distance 8° $\frac{1}{2}$				Distance 120°			
	10	eL	11 09 --			MH 4 u 20 sec			
	11	iP	11 55 02			Mz 4 u 20 sec			
		eS	12		13	eSKS	21 10 00		
		Distance 80 km				ePPS	11 40		
	11	e	16 45 50			eSS	15 48		
		eQ	17 01 56			eSSS	19 48		
		eR	05 00			eR	26 30		
	11	eP	18 24 47			Distance 87°			
		eS	25 21		13	iP	21 38 58		
		Distance 290 km				iS	39 12		
						Distance 120 km			

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May 14	eP	10 55 35	May 23	eP	00 27 55
	eS	45	23	eP	00 53 09
	Distance 80 km		23	e(P)	14 07
15	eR	06 43 00	23	e(P)	15 49 50
19	e	10 06 52	23	e(P)	17 06 10
	e	09 40	23	eP	18 57 12
	Disturbed by		23	eP	19 27 50
	Following		24	e(P)	01 38 00
19	e	10 40 22		eS	39 00
	eSKSP	41 10		Distance 560 km	
	eSS	47 38		Mz 2.5 u	
	e	55 06		Magnitude 4.7	
	eQ	59 46	24	eP	03 25 04
	e(R)	11 05 24		eS	26 28
	Distance 118°			Distance 790 km	
	Interpretation			Mz 7 u	
	doubtfull. Distur			Magnitude 5.5	
	bed by preceding		24	eP	03 49 40
	Mz 12 u 20 sec			eS	50 36
	MH 22 u 20 sec			Distance 520 km	
	Magnitude 6½			Mz 3.5 u	
21	iP	10 04 06		Magnitude 4.7	
	e(S)	05 06	24	eP	04 02 40
	Compression from			eS	03 40
	SW			Distance 560 km	
	Distance 540 km			Mz 3.5 u	
	Magnitude 7½			Magnitude 4.8	
21	e(P)	10 32 12	24	eP	07 59 00
21	e(P)	10 55 39		eS	08 00 00
21	e(P)	12 22 40		Distance 560 km	
21	e(P)	13 01 30		Mz 8 u	
21	e(P)	13 50 06		Magnitude 4.9	
21	e(P)	14 00 47	24	eP	09 09 20
21	e(P)	14 07 11		eS	10 20
21	e(P)	14 34 00		Distance 560 km	
21	e(P)	15 09 50		Mz 3 u	
21	e(P)	16 38 26		Magnitude 4.8	
21	e(P)	18 28	24	eP	15 05 24
21	e(P)	19 09		eS	06 32
22	e(P)	06 03 10		Distance 620 km	
22	e(P)	07 47 50		Mz 2.5 u	
22	e(P)	08 12 30		Magnitude 4.7	
22	e(P)	09 55 29			
22	e(P)	10 33 07			
22	e(P)	10 35			
22	e(P)	12 18 47			
22	e(P)	18 57 50			
22	i P	19 12 (36)			
	Compression from SW				
	Magnitude 8¾				

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May	24	eP	15	21	00	May	25	eP	12	49	40
		eS		22	00			eS		50	48
		Mz	3.5	u				Distance	660	km	
		Magnitude	4.7					Mz	6	u	
		Distance	560					Magnitude	4.8		
	24	eP	15	25	00		25	eP	18	04	42
		eS		26	00			eS		05	44
		Distance	560	km				Distance	550	km	
		Mz	23	u				Mz	14	u	
		Magnitude	5.1					Magnitude	5.0		
	24	eP	20	36	32		25	eP	19	23	41
		eS		40	04			eS		25	43
		iSSS		41	00			Distance	840	km.	
		Distance	2.200	km				Mz	5	u	
		Mz	16	u				Magnitude	4.4		
		M	5.5				25	eP	21	05	53
	24	e(P)	22	41	52			eS		06	54
		eS		43	06			Distance	540	km	
		Distance	660	km				Mz	11	u	
		Mz	5	u				Magnitude	4.9		
		Magnitude	4.8				26	eP	01	31	01
	24	eP	23	26	00			e			42
		eS		27	10			e		32	38
		Distance	640	km				Mz	9	u	
		Mz	5	u							
		Magnitude	5.0				26	ePS	05	40	54
	25	eP	02	51	51			e(SSS)		52	26
		eS		52	55			eQ		57	40
		Distance	560	km				eR	06	04	50
		Mz	27	u							
		Magnitude	5.4				26	iP	07	45	33
	25	eP	03	19	43			iPPP			49
		eS		21	23			eS		46	43
		Distance	760	km				Distance	640	km	
		Mz	10	u				Mz	22	u	
		Magnitude	5.4					Magnitude	5 $\frac{3}{4}$		
	25	eP	04	50	22		26	eP	10	00	26
		eS		51	54			eS		01	44
		Distance	860	km				Distance	720	km	
		Mz	23	u							
		Magnitude	5.7				26	eP	11	57	10
	25	iP	08	37	32			eS		58	40
		eS		39	36			e		59	02
		eR		40	28			e(R)			20
		Distance	1.300	km				Distance	840	km	
		Mz	150	u				Mz	9	u	
		Magnitude	6.9					Magnitude	5.5		

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PROVISIONAL READINGS AT SANTIAGO
 (SANTA LUCIA)

May 26	eP	15 08 32	May 28	eP	03 06 26
	e(S)	10 14		eS	07 40
	e	48		e	08 12
	e	11 30		e	09 02
	Distance	950 km		Distance	680 km
	Mz	9 u		Mz	35 u
	Magnitude	5.7		Magnitude	5 $\frac{1}{2}$
26	eP	18 06 00	28	eP	11 06 51
	eS	07 20		eS	07 49
	Distance	750 km.		e	08 03
26	iP	19 35 00		Dilatation from SW	
	eS	36 00		Distance	540 km
	Distance	560 km		Mz	100 u
	Mz	23 u		Magnitude	5 $\frac{1}{2}$ - 6
	Magnitude	5.5	29	eP	01 53 12
26	iP	20 00 12		eS	54 34
	eS	01 26		Distance	670 km
	e(R)	41		Mz	5 u
	Distance	690 km		Magnitude	4 $\frac{1}{2}$
	Mz	28 u	29	eP	03 35 12
	Magnitude	6.4		eS	36 40
26	iP	23 00 21		Distance	820 km
	e	34		Mz	4 u
	eS	01 28		Magnitude	4 $\frac{3}{4}$ - 5
	e	44	29	eP	05 13 41
	Distance	780 km		eS	14 35
	Mz	10 u		Distance	500 km
	Magnitude	5,3	29	eP	05 29 41
27	eP	01 29 32		eS	30 45
	eS	31 36		Distance	590 km
	Distance	1.206 km		Mz	3 u
	Mz	7 u		Magnitude	4 $\frac{1}{4}$
	Magnitude	5.4	29	iP	07 40 36
27	eP	03 49 23		eS	42 02
	eP	09 22 42		Compression from SW	
	eS	24 08		Distance	820 km
	Distance	820 km		Mz	40 u
	Magnitude	4 $\frac{1}{2}$		Magnitude	6
27	e(P)	10 26 32	29	iP	08 35 29
	eS	27 39		eS	36 43
	eR	57		Distance	690 km
	Distance	620 km		Mz	40 u
	Magnitude	5.0		Magnitude	5 $\frac{1}{2}$ - 6
27	eP	11 28 02	29	eP	10 21 46
	e	17		e(S)	22 32
	eS	29 18		Distance	460 km
	Distance	720 km		Mz	6,5 u
	Mz	43 u		Magnitude	4 $\frac{1}{2}$ - 5
	Magnitude	5 $\frac{1}{2}$			

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PROVISIONAL READINGS AT SANTIAGO
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May 29	eP	10	54	30
	eS		55	32
	Distance	570 km		
	Mz	4 u		
	Magnitude	4 $\frac{1}{2}$ - 5		
29	eP	13	37	24
	eS		38	58
	Distance	690 km		
	Mz	19 u		
	Magnitude	5 $\frac{1}{2}$		
29	eP	14	06	18
	eS		07	24
	Distance	620 km		
	Mz	27 u		
	Magnitude	5 $\frac{1}{2}$		
29	eP	21	26	23
	eS		28	28
	e		29	10
	Distance	1.200 km		
	Mz	36 u		
	Magnitude	5 $\frac{1}{2}$		
29	eP	21	40	50
	eS		41	56
	Distance	620 km		
	Mz	16 u		
	Magnitude	5 $\frac{1}{4}$ - 5 $\frac{1}{2}$		
30	eP	02	22	34
	eS		23	48
	e		24	01
	Distance	780 km		
	Mz	12 u		
	Magnitude	5 $\frac{1}{4}$		
30	eP	07	02	14
	e(S)		03	44
	Distance	860 km		
	Mz	7 u		
	Magnitude	5 $\frac{1}{3}$		
30	eP	17	47	52
	eS		49	16
	e			36
	Distance	750 km		
	Mz	7.5 u		
	Magnitude	5 $\frac{1}{3}$		
30	eP	21	22	48
	eS		24	12
	e			31

May	Mz	4 u		
	Distance	800 km		
	Magnitude	4 $\frac{1}{2}$ - 4 $\frac{3}{4}$		
31	eP	02	41	51
	i			56
	iS		43	15
	i			43
	e(R)			49
	Dilatation	from SW		
	Distance	800 km		
	Mz	55 u		
	Magnitude	5 $\frac{1}{2}$ - 6		
31	iP	04	34	36
	i			52
	eS		35	52
	e(R)		36	04
	Distance	730 km		
	Mz	23 u		
	Magnitude	5 $\frac{1}{2}$		
31	eP	11	11	25
	eP			38
	ePP		13	10
	eS		18	40
	ePS		19	04
	eQ		23	06
	eR		26	26
	Compression	from N		
	Distance	50° $\frac{1}{2}$		
	Mz	9 u 20 sec		
	MH	15 u 20 sec		
	Magnitude	5 $\frac{3}{4}$		
31	iP	16	20	46
	e		23	42
	e			58
	e(R)		24	12
31	eP	19	02	44
	eS		03	59
	e		04	36
	Distance	660 km		
	Mz	10 u		
	Magnitude	5		
31	eP	20	06	05
	e(S)		07	41
	e		08	14
	e(R)		09	05
	Distance	920 km		
	Mz	6,5 u		
	Magnitude	5 $\frac{3}{4}$		

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PROVISIONAL READINGS AT SANTIAGO
SANTALUCIA

June	1	eP	04	08	45	June	1	eP	20	36	47
		eS		09	09					37	35
		Local						Distance	440	km	
1		eP	05	04	07			Mz	3.5	u	
		eS		05	18			Magnitude	4		
		Distance			670		1	eP	21	16	08
		Mz			15			eS		17	36
		Magnitude			5			Distance	830	km	
								Mz	13	u	
1		eP	06	40	54			Magnitude	5 $\frac{1}{4}$		
		eS		41	16		1	eP	22	33	36
		Distance			170			eS		34	42
1		eP	07	06	31			Distance	830	km	
		eS		07	39			Mz	2	u	
		Mz			21			Magnitude	4 $\frac{1}{2}$ - 4 $\frac{3}{4}$		
		Distance			660		1	eP	23	35	56
		Magnitude			5-5 $\frac{1}{4}$			eS		37	32
1		eP	08	52	25			Distance	920	km	
		eS		53	39			Mz	11	u	
		Distance			720			Magnitude	5 $\frac{1}{4}$		
		Mz			1.5		2	eP	06	01	03
		Magnitude			4 $\frac{1}{3}$			e(S)		03	53
1		eP	11	04	26			Distance	16°?		
		e(S)		06	28			Magnitude	6-6 $\frac{1}{4}$		
		Distance			1.200		2	eP	08	37	51
		Mz			3.5			eS		39	25
		Magnitude			4 $\frac{1}{2}$ -5			e(R)		40	17
1		eP	12	25	04			Distance	880	km	
		eS		26	04			Mz	17	u	
		Distance			560			Magnitude	5 $\frac{1}{2}$		
		Mz			3		2	eP	21	32	24
		Magnitude			4 $\frac{1}{3}$			eS		33	40
1		eP	13	00	25			Distance	720	km	
		eS		01	17			Mz	27	u	
		Distance			480			Magnitude	5 $\frac{1}{2}$		
		Mz			3.5		3	eP	18	19	52
		Magnitude			4 $\frac{1}{4}$			eS		21	50
1		eP	13	59	05			Distance	11°		
		eS		14	00	05		Mz	15	u	
		Distance			560			Magnitude	5 $\frac{1}{2}$		
		Mz			12.5		3	eP	19	57	42
		Magnitude			4 $\frac{1}{3}$			eS		59	30
1		eP	14	10	42			e			42
		eS		11	58			e(R)	20	00	30
		Distance			820			Distance	1.000	km	
		Mz			4			Mz	7.5	u	
		Magnitude			4 $\frac{3}{4}$			Magnitude	5 $\frac{1}{2}$		

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PROVISIONAL READINGS AT SANTIAGO

(SANTA LUCIA)

June 3	eP	21	50	48	June 7	eP	05	24	25
	eS		52	42		eS		26	±3
	e		53	04		e			25
	e(R)			44		eR		27	20
	Distance 1.000 km					Distance 1.100 km			
	Mz 7 u					Mz 40 u			
	Magnitude 5½					Magnitude 6			
4	eP	03	04	08	7	eP	12	57	42
	i			23		eS		59	22
	eS		05	21		e(R)			38
	e			39		Distance 940 km			
	D				7	eP	14	04	46
	Distance 690 km					eS		07	10
	Mz 50 u					Distance 790 km			
	Magnitude 5 ½				7	eP	18	40	00
4	eP	06	42	46		eS		41	36
	eS		44	12		Distance 920 km			
	Distance 780 km				8	eP	06	03	14
4	eP	11	36	00		eS		04	25
	e		38	22		Distance 660 km			
5	eP	13	17	43	8	eP	07	03	14
	eS		19	15		eS		04	24
	Distance 870 km					Distance 660 km			
	Mz 6 u				8	eP	07	13	34
	Magnitude 5					e(S)		15	00
6	iP	05	58	39		Distance 820 km			
	e	06	01	44	9	eP	08	45	09
	Dilatation from SW					eS		46	40
	Mz	100 u				Distance 870 km			
	MH	100 u			9	eP	10	06	39
6	e(P)	17	19	22		eS		07	32
	eS		21	46		e			40
	e(R)		22	22		e(R)			56
	Distance 13°					Distance 520 km			
	Mz 12.5 u					Mz 5 u			
	Magnitude 5½					Magnitude 4 ½			
7	eP	02	19	26	10	eP	14	30	51
	eS		21	06		eS		32	03
	Distance 990 km					Compression			
						Distance 670 km			
						Mz 22 u			
						Magnitude 5 ½			

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13 eP 00 33 50
 eS 35 38
 e(R) 36 50
 Distance 10°
 MZ 13 u 10 sec
 MH 14 u 10 sec
 Magnitude = $5 \frac{1}{2}$

14 eP 02 56 26
 e 38
 eS 58 33
 e 59 02
 Distance 11°
 MZ 9u 10 sec
 MH 12u 8 sec
 Magnitude = $5 \frac{1}{2}$

13 eP 02 02 02
 e(PPP) 14
 iS 58
 Distance 530 km.
 MZ 7 u 10 sec
 MH 8 u 10 sec
 Magnitude = $4 \frac{3}{4} - 5, 1/3$

14 e 07 44 18
 14 iP 11 46 16
 iS 46
 Compression
 Distance 260 km

13 e 04 33 18
 13 iP 05 59 00
 eS 52 02
 eR 53 16
 Compresión from SW
 Distance 12°
 MZ 18 u 10 sec
 MH 21 u 10 sec
 Magnitude $5 \frac{1}{2} - 6$

14 e 13 24 02
 14 e 17 22 26
 15 eP 02 29 48
 15 e(P) 08 07 10
 15 e(P) 09 45 42
 e(S) 47 18
 15 eP 11 20 18
 e(PPP) 48
 eS 22 38
 e 23 12
 e 52
 e 24 00

13 eP 11 56 14
 e(S) 58 40
 13 e 12 39 02
 13 eP 13 45 20
 e 42
 e(S) 46 46

Distance 13°
 MZ 15 u 10 sec
 MH 15 u 10 sec
 Magnitude = $5 \frac{1}{2} - 5 \frac{3}{4}$

13 e 20 33 24
 e 34 26

15 iP 15 13 50
 15 e(P) 23 44 02
 eS 54 30
 e 00 00 26
 eR 10 42

13 e 21 13 12
 13 e 22 16 48

13 eP 23 05 14
 e(S) 06 48
 e(R) 07 30

16 eP 04 04 01
 e(PPP) 15
 eS 15 15
 e(R) 39

13 e(P) 23 34 44
 e(S) 37 30

Distance 690 km.

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16 eP 04 35 53
e 36 15
e(S) 19
16 eP 06 42 01
e(S) 43
e 53
e 43 35
16 eP 07 16 11
16 eP 07 46 27
16 eP 08 48 19
e(S) 49 47
17 e(P) 00 22 23
17 e(P') 16 54 (55)
e 17 03 21
eSS 13 23
eQ 27 03
eR 33 33
Distance 120° ?
18 eP 13 42 03
e(S) 43 03
18 eP 14 17 15
eS 18 31
e 40
Distance 69A km
19 eP 01 20 03
19 eP 02 41 59
19 eP 10 19 32
19 e(P) 10 21 25
19 eP 21 43 45
eS 44 42
Distance 530 km.
20 iP! 02 02 30
eS 03 34
Compression from SW
Distance 600 km
MZ 100 u
MH 100 u
20 eP 04 54 36
20 eP 07 16 34

20 eP 09 19 42
20 eP 10 42 07
eS 27
Distance 170 km
20 eP 11 54 34
eS 50
Distance 150 km.
20 13
not recorded. Change of paper
20 eP 13 25
Disturbed by preceding
20 iP 17 00 58
eS 02 10
Compression
Distance 670 km
MZ 40 u 8 sec
MH 40 u 10 sec
Magnitude 5½
21 eP 07 34 17
i 32
eS 35 28
e(R) 36 06
Distance 670 km.
21 eS 08 49 09
eQ 52 25
eR 54 29
Distance 43°
MH 6 u 20 sec.
MZ 4 u 20 sec.
21 iP 21 21 41
ePP 43 18
eS 47 57
eQ 51 01
Distance 40 ½°
MH 10 u 20 sec
MZ 3 u 20 sec

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22 eP 06 41 42
 i 42 00
 i 06
 e 48
 eS 43 08
 Distance 810 km
 MZ 17 u 8 sec
 MH 35 u 6 sec
 Magnitude $5\frac{1}{2} - 5\frac{3}{4}$

22 iP 09 58 17
 i 23
 e 34
 i 59 02
 e(S) 22
 e(R) 44
 Distance about 600 km
 Compression from S
 MZ 35 u 10 sec
 MH 52 u 10 sec
 Magnitude ($5\frac{1}{2}$)

22 iP 20 14 37
 i 15 30
 eS 52
 Distance 710 km

22 eP 21 48 11
 eS 49 25
 Distance 700 km
 MZ 12 u 12 sec
 MH 15 u 12 sec
 Magnitude $5 - 5\frac{1}{4}$

24 e 07 28 18
 e 30 00

24 eP 07 52 07

24 eP 10 55 30
 e(S) 56 36

24 eP 12 46 13
 e(S) 47 28

24 iP 14 02 09
 e(S) 58
 Dilatation

25 eS 02 25 48
 eSS 31 38
 eQ 38 15
 eR 42 20
 Distance 87°

25 eP 14 54 38
 eS 15 04 56
 eSS 10 58
 eR 21 20

Distance 87°
 MZ 3 u 16 sec
 MH 5 u 16 sec

25 eP 17 28 27
 25 iP 19 36 50
 e(S) 37 18 32
 e 46
 Compression from S

26 eP 06 22 00

27 No time marks.

28 eP 13 38 17
 eS 44 43
 eR 50 33

Distance 43½°

29 eP 01 18 21
 eS 19 21

Distance 560 km
 MZ 10 u 10 sec
 MH 15 u 10 sec
 Magnitude 5

29 eP 01 59 41
 eS 02 01 45

Distance 11°
 MZ 26 u 10 sec
 MH 70 u 10 sec
 Magnitude $5\frac{3}{4} - 6$

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June
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29 eP 04 42 00
e 44 36
eSKS 52 18
eS 36
eSKSP 53 28
eSS 58 12
eQ 05 05 10
eR 08 56

2 eP 10 18 43
eS 20 11
e(SSS) 39
Distance 820 km
MZ 9 u 12 sec
MH 12 u 12 sec
Magnitude 5, 1/3

Distance 87°
MZ 3 u 28 sec
MH 4 u 28 sec

2 eP 12 02 55
epP 03 15
esP 25
ePP 04 15
ePcP 05 03
eS 08 31
esS 08 59
eQ 11 19
eR 12 59

30

eP 11 47 21
e 48 39
eS 59
e 49 19
e 35
Distance 1000 km
MZ 10 u 10 sec
MH 24 u 10 sec
Magnitude 5 1/2 - 6

Distance 37 1/2°
Repth about 100 km
MZ 5 u 20 sec
MH 10 u 20 sec

JULY
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1°

eP 08 19 59
eS 21 07
Distance 620 km
MZ 5 u 4 sec
MH 6 u 4 sec

3 eP 02 21 (30)
eS 22 54
eP 02 31 (48)
eS 33 31

1°

eP 13 36 24
eS 37 52
Distance 820 km
MZ 3 u 4 sec
MH 7 u 4 sec

3 eP 20 39 43
ePP 41 44
ePS 51 56
ePPS 53 20
eSS 58 52
e 21 01 32
eQ 13 00
eR 18 32

1°

eP 23 02 11
eP 09 01 09
eS 03 59

Distance 138°
MZ 6 u 20 sec
MH 8 u 20 sec
Magnitude 6 1/4

2°

Compresión
Distance 14 1/2°
MZ 10 u 12 sec
MH 12 u 12 sec
Magnitude 5 1/2 - 5 3/4

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4
eP 04 42 20
ePP 46 28
ePPP 48 52
eSKS 53 01
ePS! 55 28
ePSP 56 26
eSS 05 01 10
eSSS 05 01 32
eQ 11 08
eR 16 30

6 eP 01 21 20
eS 22 37
Distance 720 km
6 e 07 30 05
e(SS) 34 53
e 37 50
eQ 41 45
eR 45 09

Distance 102°
MZ 9 u 20 sec
MH 16 u 20 sec
Magnitude 6 1/4

7 e 15 51 25
e 59
e 52 00

4 ePS 13 37 00
eSS 42 49
eSSS 46 --
eQ 50 30
eR 56

7 iP 17 39 04
e(PP) 15
e(PPP) 21
e 49
eS 40 11
e(SSS) 49

Distance 101°
MZ 1 u 20 sec
MH 2 u 20 sec

Distance 630 km
MZ 7 u
MH 27 u
Magnitude 5 - 5, 1/3

4 eP 21 31 48
eS 34 00
eSS 20
eSSS 30
eR 30 52

7 iP 21 42 23
e 33
e 57
eS 43 31

Distance 12,7°
Compression from SW
Distance 610 km

Distance 630 km
MZ 20 u
MH 37 u
Magnitude 5 1/2 - 5 3/4

5 iP 05 46 50
iS 47 56
e 48 13

8 eP 16 08 00
8 eP 18 37 42
8 iP 19 22 40
e 23 02
eS 24 02
e 18

MZ 40 u
MH 65 u
Magnitude 6

Distance 770 km
eP 20 20 18
e 22 34
e 24 04
8 eP 20 30 (56)

5 eP 08 07 53
eS 09 13
e 20
e 32

Dilatation
Distance 760 km
MZ 12 u 10 sec
MH 20 u 8 sec
Magnitude 5 1/4

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9 eP 06 07 21
 e(S) 09 02
 e 22
 9 e 18 01 --
 e 03 14
 10 iP' 00 25 06
 ePKS 28 33
 eSKKS₁ 35 05
 eSKSP₁ 38 21
 eSS 47 09
 eSSS 52 25
 eQ 05
 eR 12
 Dilatation
 Distance 145°
 MH 10 u 20 sec
 MZ 7 u 20 sec
 Magnitude 6 $\frac{1}{4}$ - 6 $\frac{1}{2}$
 10 e 00 15 00
 local
 10 e 20 20 51
 local
 11 iP 06 59 51
 e(PPP) 07 00 06
 eS! 01 03
 e 21
 Dilatation
 Distance 670 km
 MZ 20 u 12 sec
 MH 30 u 12 sec
 Magnitude 5, 1/3 - 5 $\frac{1}{2}$
 11 iP 08 07 54
 e 08 12
 eS 53
 e 09 50
 Compresión
 Distance 560 km
 MZ 30 u 8 sec
 MH 30 u 8 sec
 Magnitude 5 $\frac{1}{4}$ - 5 $\frac{1}{2}$
 11 eP 10 29 28
 e(PPP) 45
 eS 30 42
 Distance 690 km

11 iP! 12 08 15
 eS 19 --
 eSS 25 01
 eSSS 28 57
 eQ 31 52
 eR 37 01
 Dilatation
 Distance 91°
 12 eL 12 00 00
 e 19 20 40
 local
 13 eP 08 05 35
 iS 13 00
 e(ScS) 14 42
 eSS 16 36
 eSSS 18 56
 eR 20 46
 Distance 55°
 Deeper than normal ?
 SH 12 u 16 sec
 MZ 16 u 20 sec
 MH 20 u 20 sec
 Magnitude 6
 13 eP 12 02 14
 e(S) 03 34
 15 eP 18 55 12
 15 eP 22 04 02

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18
iP 09 56 55
i 57 06
iS 12

Dilatation
Distance 130 km.
eP 13 43 39
eS 44 51

19 eR 03 00 00
19 eR 04 32 40
19 iP 11 14 37

Compresión Local

20 eP 16 22 40
e(S) 24 00

20 eP 21 39 43 27
i(PPP) 59
i 40 06
eS 58

Compression from SW

Distance 710 km
MH 70 u
MZ 70 u
Magnitude 6

21 iP 04 02 43 29
i 51
eS 04 01
eR 37 29

Distance 730 km
MZ 20 u 10 sec
MH 25 u 11 sec
Magnitude 5, 1/3 - 5, 2/3

21 iP 07 57 10
e 36
Local

21 eP 08 04 20
e 06 45
Local

22 iP 11 12 10 30
iS 20

Distance 80 km

24 eP 10 22 44
eS 34 12

Distance 860 km

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24 eP 10 39 03
eS 40 28

Distance 860 km
MZ 40 u 12 sec
MH 50 u 12 sec
Magnitude 5 3/4 - 6

25 e 04 21 32
e(R) 28 00

25 ePKS 11 34 40
ePS 44 14
eSS 52 12
eQ 08 00
eR 16 22

Distance 1380
MZ 8 u 36 sec
MH 20 u 36 sec

iP 10 07 41
eS 09 57
eR 11 13

Compression

Distance 120
MZ 42 u 7 sec
MH 60 u 7 sec
Magnitude 6 - 6 1/4

e 00 51 12
e 01 06 44
e 12 08

e(P' 2) 17 51 22
ePP 2 54 56
ePKS 55 28
eSKKS 1 18 01 52
eSS 14 46
eSSS 20 00
eQ 33 16
eR 41 38

Distance 1480
MZ 23 u 20 sec
MH 45 u 20 sec
Magnitude 6 3/4 - 7

eL 02 19 56

July
1960

31	eP	03	14	51
	e(PKS)		18	36
	ePPP		20	06
	eSKKS ₁		23	56
	e		25	28
	eSKSP		27	20
	e(PS)		28	28
	eSS		32	40
	eSSP		33	30
	eSSS		37	56
	eQ		47	30
	eR		54	00

Distance 132°

MZ 9 u 20 sec

MH 15 u 20 sec

Magnitude 6 $\frac{1}{4}$ - 6 $\frac{1}{2}$

31	eP	14	57	31
	eS		59	46
	eR	15	00	48

Distance 11 $\frac{1}{2}$ °

MZ 30 u 10 sec

MH 45 u 10 sec

Magnitude 6

August

1	eP	00	58	08
	e			32
	eS			42

Distance 290 km

1	eP	17	29	12
	eS		30	42

Distance 870 km

1	eR	18	30	28
1	eP	20	13	46
	eS		15	00

Distance 700 km

MZ 18 u 12 sec

MH 27 u 7 sec

Magnitude 5 $\frac{1}{3}$ - 5 $\frac{1}{2}$

2	e	05	20	51
	e		25	23
	eSKS		31	17
	eS		32	11
	ePS		34	11
	eSS		38	59
	eQ		48	59
	eR		53	00

Distance 101°

MZ 2 u 28 sec

MH 5 u 26 sec

August
1960

2	e(P)	09	43	(44)
	eSKS		53	35
	eS			59
	eSS		59	35
	eQ		06	29
	eR		10	24

Distance 87°

MH 2 u 28 sec

2	eS	13	56	45
	eR	14	02	07

MZ 3,5 u 20 sec

MH 4 u 20 sec

3	eP	01	15	23
	eS		16	59

Distance 940 km

MZ 8 u 12 sec

MH 10 u 8 sec

Magnitude 5 $\frac{1}{3}$

3	eP	19	09	35
	eS		11	13

Distance 950 km

MZ 5 u 16 sec

MH 5 u 8 sec

Magnitude 5

4	iP	06	09	15
	eS			26

Dilatation from E

Distance 90 km

4	eP"	07	53	56
	e		55	28

ePP!

e

ePKS!

eSKS 08 00 58

e 02 50

ePS 05 52

eSS 13 00

e 15 50

eQ 27 00

eR 33 52

Distance 129°

Deeper than normal?

MZ 4 u 20 sec

MH 10 u 24 sec

Magnitude 6 - 6 $\frac{1}{4}$

4	eP	10	56	28
---	----	----	----	----

August 1960

4 eP 11 17 22
 eS 18 52
 Distance 860 km

6 iP 08 53 26
 iS 35 15
 Compression
 Distance 80 km

6 eP 14 52 05 17
 e 39
 eS 54 23 17
 Distance 13°
 MZ 11 u 10 sec
 MH 13 u 10 sec
 Magnitude 5 2/3

7 eS 16 20 04
 Local

9 iP 04 08 47
 eS 09 41
 Compression
 Distance 530 km

9 eSKS 08 02 45
 e(PS) 04 09 20
 eSS 08 49
 eQ 17 30
 eR 21 45
 Distance 90°
 MZ 5 u 24 sec
 MH 8 u 24 sec

9 e 17 09 54
 eQ 22 54 22
 eR 27 --
 MZ 4 u 24 sec
 MH 7 u 22 sec

12 eL 10 43 00
 13 eR 06 39 16
 13 eL 08 21 00

13 iP! 14 16 39 24
 iS 18 01
 e(R) 36
 Compression from SW
 Distance 770 km
 PZ 12 u 12 sec

PH 17 u 12 sec
 MZ 100 u 12 sec
 MH 100 u 12 sec
 Magnitude 6 1/2 - 7

e 07 35 14
 eL 46 02
 e 09 50 30
 e(R) 58 50
 eSorSS 11 41 00
 eQ 48 00
 eR 51 50

18 iP 11 08 30
 eS 38
 e 09 48
 eR 10 08
 Dilatation
 Distance 640 km

iP 11 47 21
 iS 32
 Distance 90 km

iP 20 16 52
 eS! 23 20
 eQorSS 26 35
 Compression
 Distance 42 1/2°

MZ 20 u 20 sec
 MH 80 u 20 sec
 Magnitude 6 - 6 1/2
 no seismograms

eP 14 17 39
 eS 25 15
 eR 33 13
 Dilatation
 Distance 55°

MZ 3 u 20 sec
 MH 4 u 20 sec

eP 06 02 00
 eSKS 12 34
 eS 52
 ePS 14 00
 eSS 18 36
 eR 30 00
 Distance 88°
 MH 2 u 20 sec

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August
1960

September
1960

25 No time marks

26 No time marks

27 e(Q) 22 12 10
eR 13 20

28 iP 02 50 37
Compression

28 eS 06 18 36
eQ 21 36
eR 23 40
Distance 41°

28 eR 19 19 --

28 eP 21 58 37
eS 59 56
eR 22 00 40
Distance 740 km

29 eP 05 00 (25)
eS 06 20
eQ 08,5
eR 10 40
Distance 39°

29 e(P) 14 56 28
eS 46

30 eP 06 52 (52)
e(PPP) 54 50
eS 59 00
eQ 07 02 00
eR 03, 6
Distance 41°
MZ 7 u 20 sec
MH 16 u 20 sec
Magnitude $5\frac{1}{4}$ - $5\frac{3}{4}$

31 eP 07 23 (46)
eS 30 00
eQ 33 00
eR 34 44
Distance 41°
MZ 5 u 20 sec
MH 9 u 20 sec

31 iP 11 28 42
e 30 04

1 e 07 57 44
e 08 03 56
eR 14 40

1 eSKS 09 53 04
eS 54 28
eSKSP 56 00
eSS 10 01 52
eR 17 00
Distance 107°
Interpretation Doubtful

1 e 16 12 40
e 16 28
e 23 40
eR 31,5

1 e 20 33 24
e 39 56
eR 46,2

2 iP 07 38 46
eS 39 58
e(R) 40 40
Distance 670 km

2 iP 18 33 06
iS 31
Dilatation
Distance 210 km

2 e(SS) 22 40 10
e(Q) 53 56
eR 59 20

4 eQ 00 46 30
eR 54 20

7 iP 01 25 51
eS 32 28
eQ 35 44
eR 38 30
Dilatation
Distance 45°
MH 6,5 u 20 sec
MZ 5 u 20 sec

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PROVISIONAL READINGS AT SANTIAGO
 (SANTA LUCIA)

Sept.10 1960	iP	02 45 55	Sept.17 1960	eP'	08 25 03	
10	iP	11 03 34		e(SKS)	28 06	
	e(S)	05 40		ePRS	40	
10	eP	13 28 31		e(SKP)	40 16	
10	eP	14 04 54		e(PPS)	48	
10	eP	21 46 43		eSS	46 20	
10	eP	23 05 21		eSSS	51 00	
	e(S)	06 50		eQ	09 04 06	
	e(R)	07 24		eR	11 00	
12	iP	03 58 57		Distance	143°	
	iS	59 24	17	eP	19 12 48	
	Compression			eS	14 00	
	Distance	230 km.		Distance	670 km.	
12	iP	06 10 55	17	eP	20 09 10	
	iS	11 13		ePP	12 40	
	Dilatation			eSKS	19 36	
	Distance	150 km.		e	44	
12	iP	13 59 48		eSS	25 40	
	iS	14 00 15		eQ	30 46	
	Compression			eR	36 42	
	Distance	230 km.		Distance	89°	
13	eP	00 44 (25)	19	eP	19 09 19	
	eS	45 (25)		iS	15 17	
14	iP	05 03 15		eQ	18 21	
	iS	08 16		Distance	39°	
	eQ	09 24		MZ	15 u 20 sec	
	Dilatation			MH	40 u 24 sec	
	Distance	29,5°	21	iP	17 24 04	
	MH	12 u 12 sec		iS	13	
14	e(PS)	23 42 06		Distance	70 km.	
	e(SS)	48 20	22	e(P)	09 28 34	
	eQ	59 16		23	eP	01 41 46
	eR	24 04 10		eS	42 20	
	Distance	113° ?		Distance	300 km.	
17	eP	01 55 (37)	23	iP	23 17 40	
	eS	56 56		e(S)	18 08	

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Sept. 26 iP 00 33 44
eS 34 16
Dilatation
Distance 270 km.

26 iP 17 02 12
ePP 33
eS 05 20
e 29
e(SSS) 06 01
Dilatation
Distance 17,5 °

26 iP 21 51 24
iS 30
Dilatation
Distance 50 km.

27 eP 02 16 32
e(S) 18 48
e 19 08

28 eP 02 20 00
local

28 iP 05 25 57
eS 26 07
Dilatation
Distance 85 km.

28 eP 08 06 00
eS 07 20
Distance 750 km.

28 eP 16 24 01
eS 48
Distance 420 km.

29 iP 06 31 39
eS 34 40
eSeS 43 31
Dilatation from N
Distance 17°

29 iP' 11 37 44
epP' 39 24
e(SKKS) 47 15
e(SKKP) 52
eSS 12 00 00
eSSS 02 16
Distance 151°
Depth 400 km.

Sept. 29 iP 21 41 35
iS 48
Compression from SE
Distance 100 km
MZ 20 u
MH 100 u

29 iP 22 12 54
iS 13 11
Distance 140 km
Compresión from N E

30 eP 07 39 04
eS 40 44
eR 41 28
e 49 16
Distance 940 Km
MZ 20 u 13 sec.

30 eP 14 46 00
e 19
eS 47 04
e 30
Distance 590 km.

Oct. 2° eP 07 12 (26)
eS 15 40
Distance 18°

2° iP 11 57 46 A
iS 12 01 00
Compresión from W
Distance 18°
MH 80 u 14 sec.
MZ 18 u 16 sec.
Magnitudo 5¼ - 5½

3 eP 05 12 14
eS 13 (28)

3 eP 05 13 26

4 eP 03 16 51
eS 18 18
Distance 820 km.

6 eP 16 18 04
eS 19 32
Distance 830 km.

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Sept. 26 iP 00 33 44
eS 34 16
Dilatation
Distance 270 km.

26 iP 17 02 12
ePP 33
eS 03 20
e 29
e(SSS) 06 01
Dilatation
Distance 17,5°

26 iP 21 51 24
iS 30
Dilatation
Distance 50 km.

27 eP 02 16 32
e(S) 18 48
e 19 08

28 eP 02 20 00
local

28 iP 05 25 57
eS 26 07
Dilatation
Distance 85 km.

28 eP 08 06 00
eS 07 20
Distance 750 km.

28 eP 16 24 01
eS 48
Distance 420 km.

29 iP 06 31 39
eS 34 40
eSeS 43 31
Dilatation from N
Distance 17°

29 iP' 11 37 44
epP' 39 24
e(SKKS) 47 15
e(SKKP) 52
eSS 12 00 00
eSSS 02 16
Distance 151°
Depth 400 km.

Sept. 29 iP 21 41 35
iS 48
Compression from SE
Distance 100 km

MZ 20 u
MH 100 u

29 iP 22 12 54
iS 13 11
Distance 140 km
Compresión from N E

30 eP 07 39 04
eS 40 44
eR 41 28
e 49 16
Distance 940 Km
MZ 20 u 13 sec.

30 eP 14 46 00
e 19
eS 47 04
e 30
Distance 590 km.

Oct. 2° eP 07 12 (26)
eS 15 40
Distance 18°

2° iP 11 57 46 A
iS 12 01 00
Compresión from W
Distance 18°
MH 80 u 14 sec.
MZ 18 u 16 sec.
Magnitudo 5 1/4 - 5 1/2

3 eP 05 12 14
eS 13 (28)

3 eP 05 13 26
4 eP 03 16 51
eS 18 18
Distance 820 km.

6 eP 16 18 04
eS 19 32
Distance 830 km.

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Oct. 7

iP ¹	15	37	51
e		38	08
ePP		40	21
ePKS!		41	17
eSKKS ₁		47	07
eSS		58	01
eSSS!	16	03	16
eQ!		14	01
eR		20	37

Distance 136°
Magnitude 6 $\frac{1}{2}$ - 6 $\frac{3}{4}$
RZ 12 u 20 sec
RH 16 u 24 sec
RH 25 u 56 sec

7

eP	20	08	53
eS		15	02
eQ		18	11
eR		19	49

Distance 41°
MZ 10 u 20 sec
MH 20 u 20 sec
Magnitude 5 $\frac{1}{2}$ - 5 $\frac{3}{4}$

8

eS	02	09	08
eSS		13	00
eQ		15	22
eR		18	10

Distance 59°

8

iP ¹	06	11	56
i		12	52
i		16	00
e			36
e		19	44
e!		22	20
e!		26	32
e		27	08
eSS		31	00
eSSS		36	08
e! SSS		43	10
P ¹ Z	4 u	8	sec.

8

eR	21	58	28
----	----	----	----

9

e	09	44	28
e		59	38
e	10	01	04

10

eP	23	29	50
eS		30	58

Distance 650 km.

Oct. 13

eP ¹	15	12	06
ePKS		15	36
e(PPS)		27	32
eSS		32	32
e!		33	24
eSSS		37	28
e		41	12
eQ		49,2	
eR		57	10

Distance 136°
Magnitude 6 $\frac{1}{4}$
MH 11 u 20 sec
MZ 8 u 20 sec

14

iP	17	49	46
e		50	09
eS			48

Distance 570 km.
MZ 50 u 2 sec
MH 100 u 2sec

14

ePP	21	39	42
ePS		49	36
eSS		56	32
eSSS	22	01	00
eQ		10	28
eR		15	36

Distance 125°

17

iP	13	40	28
eS		43	40

Compression
Distance 17,5°

17

eP	15	53	00
ePP or PcP		55	00
eS		59	00
eQ	16	01	36

Distance 39.5°

17

eR	22	40	02
----	----	----	----

19

eP	10	40	(18)
eS		47	06
eQ		50	44
eR		53	28

Distance 46°

20

e	11	34	34
e		40	04
e(Q)		52	08
e(R)		57	28

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Oct. 21	eP	10 03 54	
	e	05 52	
	local		
21	eP	13 45 43	
	local		
22	e	08 49 18	
	ePS	51 00	
	eSS	57 14	
	eSSS	09 01 16	
	eQ	08 04	
	eR	15 04	
	Distance	114°	
25	eP	12 17 (20)	
	eS	19 28	
	Distance	12° ?	
26	iP	08 12 51	
	iS	13 00	
	Distance	65 km.	
26	iP	14 48 20	
	iS	43	
	Compression from N		
	Distance	190 km.	
26	e(P)	16 39 17	
	eS	40 (52)	
27	e(S)	05 38 40	
	eQ	41 38	
	eR	44 00	
28	e	04 45 12	
	e	47 32	
	e	54 08	
	eI	06	
28	eP'	13 37 28	
	ePP	40 37	
	ePKS	41 02	
	eSKKS ₁	47 12	
	eSKSP ₁	50 36	
	eSS	58 48	
	eQ	14 15 40	
	eR	23	
	Distance	142°	
	Deeper than normal ?		
28	iP	19 17 40	
	iS	50	
	Distance	80 km.	

Oct. 28	e	22 59 52	
	e	23 03 28	
	e	12 54	
	e	13 34	
	eR	40 44	
29	eQ	04 44 40	
	eR	47 44	
29	eP	09 50 45	
	ePKS	10 01 10	
	eS	40	
	eSS	07 48	
	eSSS	11 20	
	eQ	15 12	
	eR	19 44	
	Distance	91°	
30	eP	12 16 55	
	e	18 40	
	eS	52	
	Compression from SW		
	Distance	10.5°	
	MH	150 u 12 sec.	
	MZ	100 u 12 sec.	
30	eP	21 35 19	
	e	36 58	
	eS	37 22	
	Distance	10.5°	
	MZ	16u 8 sec	
	MH	50u 6 sec	
Nov. 1°	eP	06 25 12	
1960	eS	33 08	
	e(SKSP)	22	
	eSS	36 40	
	eQ	38 40	
	eR	42 08	
	Distance	57.5°	
1°	iP	08 47 28	
	eS	48 32	
	Compression from SW		
	Distance	600 km.	
	Magnitude	6 $\frac{1}{2}$ - 6 $\frac{3}{4}$	
	PZ	15 u 12 sec.	
	PH	50 u 12 sec	
	MZ	110 u 12 sec	
	MH	150 u 12 sec	
	Felt from Santiago to		
	Pto. Montt.		

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Nov. 1°	eP	10	48	43
	eS			49
	Distance	50 Km		
1°	eP.	12	30	58
	eS		32	05
	e			34
	Dilatation from SW			
	Distance 630 km			
1°	eP	15	52	(24)
2	ePP	17	34	00
	e			20
	ePS		43	28
	e		48	
	eQ	18	00	16
	eR		06	16
	Distance 111°			
5	iP	14	34	18
	eS			35
	Distance 130 Km			
5	eP	18	31	06
	eS		32	34
	Distance 240 km.			
6	eP	03	52	03
6	eP	04	30	05
6	eP	04	57	04
6	eR	05	44	00
6	eP	06	27	28
	eQ		50	(40)
	eR		54	08
	Distance 89°			
8	eP	20	41	35
	e(S)		43	(02)
9	eP	01	20	20
	e(S)		23	00
9	iP	03	25	32
	e		31	02
	eS			24
	e		34	16
	eR			40
9	e	11	31	42
	e		38	52
	eQ		56	16

Nov.9	eP	20	08	41
	i		10	09
	eS			38
	e(SSS)			48
	eR		11	00
	Distance 10°			
	MZ	80 u	12 sec.	
	MH	120 u	8 sec.	
10	eP	05	51	32
10	e	15	07	30
	e		24	28
	e		40	00
	e		42	30
10	eP	17	21	40
10	eP	18	00	(52)
10	eP	19	53	36
	e(S)		54	40
11	eP	03	35	01
11	iP	07	52	23
	eS			49
	Dilatation			
	Distance 220 km.			
11	eP	15	22	32
	e(S)		24	00
12	eP	08	30	40
	e(S)		32	01
	Distance 760 km.			
12	iP	08	38	38
	eS		39	48
	Distance 650 km.			
13	eP'	06	56	33
	eSKKS ₁	07	06	28
	eSKSP ₁		09	52
	eSS		19	00
	(eQ)		34	46
	Distance 146°			
13				

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Nov. 13	eP'	29	39	24
	ePP		40	51
	ePKS		42	56
	ePPP		43	28
	eSSS		46	21
	cPS		50	28
	eSS!		57	18
	eSSS	10	01	04
	eQ!		10	56
	eR-		16	08
	Dist. 121°			
	SSH	23 u	32	sec
	QH	30 u	42	sec
	MH	20 u	16	sec
	RZ	20 u	16	sec
	Magnitude	6 $\frac{1}{2}$ - 6 $\frac{3}{4}$		
14	iP	16	38	40
	local			
15	e	06	42	20
	eR		49	12
15	eP	14	47	56
	e(S)		49	24
	Distancia	830 km		
15	eP	17	09	59
	eS		11	10
	Distance	620 km		
15	i(P)	20	32	59
17	iP	01	30	00
	i			10
	i			18
	eS		31	10
	Distance	660 km		
17	eP	05	18	38
	i			49
	e(S)		21	00
	e			52
17	e(P)	21	37	00
	e		40	00
	e(S)			16
18	eP	12	45	16
	eS		47	

Nov. 20	eP	22	07	48
	i		08	29
	eS		12	40
	e(R)		14	10
	Distance	30.5°		
	MH	110 u	18	sec
	MZ	110 u	18	sec
22	e(P)	02	38	12
	e(S)		43	05
	eR		45	20
22	e	04	08	33
	eR		12	44
22	eR	07	04	00
22	eP	09	05	46
	local			
22	iP	12	30	41
	eS		32	04
	e			16
	e			38
	Compresión from S			
	Distance	760 km.		
	Magnitude	6 $\frac{1}{2}$ - 6 $\frac{3}{4}$		
	PZ	3.5 u	6	sec
	PH	8 u	8	sec
	MZ	130 u	16	sec
	MH	130 u	14	sec
23	eP	14	25	18
	e		26	00
	ePP		28	52
	eSKS		35	42
	eS			52
	ePS		37	26
	eSS		42	00
	eQ		48	40
	eR		53	12
	Distance	91°		
	MZ	20 u	20	sec.
	MH	35 u	20	sec.
	Magnitude	6 $\frac{1}{2}$		

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Santiago, CHILE .

PROVISIONAL READINGS

(Santa Lucía)

Dic.
1960

Dic.
1960

1° eQ 08 58 36
1° e 21 14 40
e 52
e 21 24 8
eQ 31 20
2 eP 09 12 52
e 13 00
iS 14 42
e 50

6 iP 11 07 10
iS 20
Distance 80 km.
8 iP 11 20 39
iS 21 00
Dilatation from N E
Distance 170 KM
PZ 10 u 2 sec
PH 10 u 3 sec

Distance 10°
MZ 130+u 9 sec
MH 130+u 9 sec
Magnitude $6\frac{1}{2}$ - $6\frac{3}{4}$

13 eP 07 48 (48)
e 49 12
iS 59 39
eSS 08 05 14
eSSS 08 32
eQ! 11 40
eR 15 24

2 eP 09 39 (54)
e 41 29
eS 40
MZ 130 u
MH 110+u

Distance 88°
QH 22 u 48 sec
RZ 15 u 18 sec

Disturbed by preceding

3 iP' 04 44 25
e 45 39
eP' 46 19
ePP 49 28
e 36
ePS! 05 00 00
ePPS 03 16
eSS 05 10 36
eSSS 15 44
eR 36 --

13 eP 10 48 30
eS 49 26
eR 50 07

Distance 510 km.

Compression
Distance 170°
Deeper than normal
P'Z 3,5 u 10 sec
MH 20 u 20 sec
MZ 15 u 20 sec
Magnitude $6\frac{1}{2}$ - $6\frac{3}{4}$

15 e 00 33 10
e 38 36
e 45 44
e 52 20
19 eP 13 24 50
eS 26 04

Distance 690 km.

6 eP 08 59 01
ePP 18
e 35
eS 09 01 03
e 28
Distance 10°,8
MZ 40 u 5 sec
MH 80 u 5 sec
Magnitude 6 - $6\frac{1}{4}$

22 eP 03 51 18
ePP 32
ePPP 48
eS 54 31
Distance 17°,5

eSKS or S 06 56 18
eSS 07 00 16
eQ 06 --
eR 10 20

22 iP 12 22 12
iPPP 25
iS 42
i 45

Distance 260 km

MH 35 u

UNIVERSIDAD DE CHILE
Instituto de Geofísica y Sismología.

Casilla N° 2777
Santiago, CHILE

PROVISIONAL READINGS
(Santa Lucía).

Dic. 1960				Dic.			
22	eSKS or S	14	35	28	PH	10	u 12 sec
	eSS		41	24	MZ	11,5	u 11 sec
	eR		51	32	MH	10,5	u 11 sec
	Distance	85°			eP	19	05 08
23	e(S)	15	57	20	ePP		20
	Local				eS		07 58
					eR		09 00
25	iP	04	07	48	Distance	15°,5	
	iS			58	e	20	37 40
	Distance	80 km.			e		38 12
25	e(S)	17	39	08	e		39 40
	local				e	21	38 00
26	eSKS or S	01	19	40	30	eP	11 31 (16)
	e		20	52	eS		32 (08)
	e		21	52	31	eP	11 21 (12)
	eSS		26	00	eS		23 (52)
	eQ		32	52	31	eP	18 10 48
	eR		37	38	eS		13 00
	Distance	90°			e		04
26	e(P)	04	40	10	eSS		16
	e			35	eR		52
	e		42	02	Compression from SW		
	e(S)		45	30	Distance 11°,5		
	e(R)		48	10	MZ	27	u 12 sec
	e		51	--	MH	30	u 12 sec
27	e	10	57	36	NOTICE:		
	eS or SKS		59	08	This Bulletin is discontinued as		
	eSS	11	05	32	of January 1, 1961. Santiago		
	eSSS		08	48	readings are sent by teletype to		
	eQ		12	04	USCGS Washington, and are published		
	e(R)		18	--	in the Anuario of the Institute.		
	Distance	91°			Publication of the Air Mail Bulletin		
27	iP	18	14	25	will be resumed if there		
	ePPP			59	is sufficient demand from foreign		
	iS		18	15	stations to justify the expense.		
	e			24			
	Dilatation	from N					
	Distance	21°,5					
29	iP	10	39	32			
	eS		41	46			
	eR		43	02			
	Compression	from SW					
	Distance	12°,3					
	Magnitude	6 $\frac{1}{4}$ - 6 $\frac{1}{2}$					
	PZ	4,5	u	12 sec			

C. Lomnitz
Director.