

25th May, 1950.

Magnetic Survey, Botanic Gardens,
Christchurch, NEW ZEALAND.

CHRISTCHURCH PROVISIONAL READINGS

1950
May

10d	e		10 44 ca	
16d	e(S?)	EN	17 35 55	
	eL	EN	38 40	
	e	Z	40 15	
17d	eP	Z	18 18 20	21°
	iP	ZNE	18 22	
	eS	NEZ	22 12	
	i	EN	22 34	
	L _r	ZN	24 20	
19d	eP?	Z	7 10 36	
	iP	ZNE	7 10 43	22°
	PP	Z	11 15	
	e	Z	12 54	
	S	EN	14 44	
	L _q	EN	15 40	
	L _r	Z	17 10	
20d	e		7 16 ca	
23d	e		13 00 ca	

H.F. Baird
Director

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Magnetic Survey, Botanic Gardens,
Christchurch, NEW ZEALAND.

CHRISTCHURCH PROVISIONAL READINGS

Date	Time	Station	Reading	Direction	Notes		
1950 May	24d	iP	4 01 03	22°			
		S	05 00				
		eLq	06 00				
		eLr	07 20				
		ZN					
		ENZ					
		E					
		Z					
		26d	01	iP	22 16	23½°	
				i	22 32		
iPP	22 47						
e	23 30						
eS	24 45						
i	26 25						
Lr	26 37						
Z	28 50						
ZN							
ZNWA							
26d	07	e	53 ca				
		e	10 02 25				
		e(S?)	17 48 32				
		eLr	51 00				
		Z					
		ENZ					
		NEZ					
		27d	11	P	50 18	22½°	
				S	54 20		
				eLr	57 40		
Z							
ENZ							
27d	12			iP	44 39	23°	
				PP	45 12		
				e	45 40		
				i	46 14		
				e	47 06		
		iS	48 47				
		SS	49 38				
		e(Lr?)	51 15				
		Z					
		ENZ					
28d	01	iP	41 54	24°			
		PP	42 46				
		e?	43 56				
		S	46 07				
		i	46 16				
		ess	46 50				
		Lr	48 25				
		Z					
		ENZ					
		ENZ					
29d	9	e	52 ca				
		e(S?)	10 55 50				
		Similar in appearance to following shocks at 27d, 11h, 12h					
		eL	58 30				
		eLr	11 00 20				
		Z					
		NEZ					

H.F. Baird
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DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Magnetic Survey, Botanic Gardens,
Christchurch, NEW ZEALAND.

8th June, 1950.

CHRISTCHURCH PROVISIONAL READINGS

1950
May ADDITIONAL:

27d	eP	14 32 00	June	e	2 02 ca
	e	33 15	3d		
	eSP	34 42	3d	e?	16 00 ca
	S	35 52			
	ePPcP	37 25	4d	e(S?)	15 27 24
	e	38 45		e	29 50
	e	40 20		eLr	31 25
	eScS	41 34			
	e	42 40			
	epScS	44 25			

26-27^oca 600km ca.
Trace still slightly disturbed
from previous shock

In large microseisms.

CONTINUATION:

<u>May</u>	e?	15 05 20
30d	e	08 20
	i	11 18
	e	12 12
	e(L?)	14 20
	i	18 11

In large microseisms.
Surface waves very small.

H.F. Baird
Director



Magnetic Survey, Botanic
Christchurch, NEW ZEALAND

15th June, 1950.

CHRISTCHURCH PROVISIONAL READINGS

Additional:

June

4d	e		14 11 ca		In large microseisms
4d	e(P?)	E	15 22 54		
8d	eP	ZN	16 20 45	89°ca	Trace disturbed by large microseisms and ground tilt
	eSKS				
	or S	ENZ	31 20		
	SSKKS	NE	32 25		
	SS	NE	37 40		
	eSSS	E	42 00		
	eL _q	EN	44 45		
	eL _r	Z	50 20		
11d	P	ZNE	22 15 48	20-21°	Trace disturbed by microseisms and ground tilt
	i(P)	ZN	15 56		
	e	ZE	17 05		
	e	ZE	18 53		
	eS	E	19 33		
	i(S)	ENZ	19 46		
	L _r	Z	22 21 10		
12d	e(L _q ?)	N	14 20 15		
	eL _r	ZNE	26 45		
14d	eL	EN	3 56 30		
	eL _r	Z	57 50		
14d	e(S?)	NE	4 53 15		
	eL _r	Z	55 20		

Additional:

May

30d	eP	NZE	15 08 20	21°ca	
	isP	ZN	10 37	600km.ca	
	iS	ZNE	11 18		
	SP or P _c P	ZE	11 46		
	e(pP _c P)	EN	14 15		
	iS _c S	ZEN	18 10		
	e(sS _c S)	EN	22 25		

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DEPARTMENT OF
SCIENTIFIC AND INDUSTRIAL RESEARCH

Magnetic Survey,
Botanic Gardens,
CHRISTCHURCH.

22nd June, 1950.

CHRISTCHURCH PROVISIONAL READINGS

Continuation

17d	iP	WA, ZNE	15. 57. 48	
	iS	WA, ENZ	58. 45	
19d	P	ZE	12. 47. 38	60° ca
	ePP	Z	50. 05	
	e	ZN	54. 20	
	eS	NEZ	55. 54	
	S _c S	E	57. 40	
	SS	NE	13. 00. 05	
	eLq	N	02. 45	
	eLr	ZE	07. 15	
21d	iP	Z WANE	7. 00. 46	21° ca
	L	Z WA	01. 19	
	eS	EN	04. 37	
	LS	ENWA	04. 55	

H. F. Baird

DIRECTOR

Magnetic Survey,
Botanic Gardens, Christchurch
NEW ZEALAND.

29th June, 1950.

CHRISTCHURCH PROVISIONAL READINGS

Continuation:

June

21d	P	ZN	10 04 35	44°
	ePP	ZN	06 20	
	S	ENZ	11 08	
	SS			
	and L _q	NE	14 42	
	L _r	Z	18 00	
22d	e		14 48 ca	
24d	iP	ZNE	22 30 36	22° ca
	eS	EN	34 20	
	iS	EN	34 47	
	L _r	Z	36 55	
25d	eP	Z	11 19 20	Interpretation doubtful
	e	Z	21 00	
	S	ENZ	24 48	
	eL _r	NE	29 10	
25d	e	NEZ	21 06 30	
	eL	EN	09 00	

H.F. Baird
Director

Magnetic Survey,
Christchurch,

7th July, 1950

CHRISTCHURCH PROVISIONAL READINGS

Continuation:

July

3d	eP	WA	2 03 27
	eS	NE	06 15

3d	iP	ZWAN	10 13 44	60°ca	In large microseisms
	e	Z	14 15		
	ePP	Z	16 15		
	eS	EN	21 56		
	SS	E	10 25 45		
	eLq	EN	28 30		
	eLr	Z	33 00		

3d	eP	WA	12 37 40
	e(S)	EN	39 45

5d	e(S)	EN	3 44 12
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DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Magnetic Survey, Botanic Gardens,
Christchurch, NEW ZEALAND.



17th July, 1950.

Additional: July CHRISTCHURCH PROVISIONAL READINGS

5d	e	16 01 ca	9d	eP	Z	4 53 00	112° ca
<u>Continuation:</u>							
7d	iP	16 53 34		iP	ZE	53 05	
	PP	54 48		e	Z	55 20	
	P	56 10		ePKP	Z	56 40	
	e?	58 15		ePP	ZE	57 30	
	eS	58 45		ePPP	ZEN	00 10	
	eS	58 56		i	NZ	02 20	
	eSS	58 30		eSKS	ZN	03 45	
	eLq	17 00 40		eSKKS	EZN	04 28	
	eLr	02 45		iS	NE	05 28	
8d	e	18 12 ca		e(PS)	ENZ	06 25	
	e	20 05 ca		iPS	NE	06 57	
9d	e?	00 16 15		ePPS	E	08 08	
	e	18 15		i(PPPS)	EN	09 29	
9d	e(P)	01 39 16		eSS	N	14 00	
	e(S)	42 30		i	EN	14 54	
	eL	45 00		eSSS	E	18 10	
9d	e	01 50 20		e(SSSS)	Z	21 50	
	e(P)	51 35		eLr		30 00	
	e	56 05			EN	10 07 38	
	S	57 56			EZ	10 30	
	e	59 32			E	11 54	
	e(SS)	2 01 40			EZ	15 00	
	Lr	04 40				16 50 ca	
						19 46 ca	

Trace may be confused by the coda of a previous shock.

20th July, 1950.

CHRISTCHURCH PROVISIONAL READINGS

Continuation:

July

10d	e? eL	Z ZN	6 13 20 15 45	
12d	iP e S eL _r	ZN ZEN NEZ Z	11 53 32 56 30 57 58 12 01 15	26°
17d	e(S)	EN	00 08 28	
17d	iP e eS iS	ZNWA ZN WA NEZ	20 22 37 23 52 26 29 26 31	21½°

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Magnetic Survey, Botanic Gardens,
Christchurch, NEW ZEALAND.



H.F. Baird
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27th July, 1950.

CHRISTCHURCH PROVISIONAL READINGS

Continuation: July

20d	P	ZN	9	36	26	21d	eP	WA	20	37	41
	PP	ZN		37	15		iP	ZNE		37	48
	e	Z		38	36		i	ZWAN		38	12
	eP _{OP}	Z		39	30		iPP	ZN		38	27
	eS	E		40	46		i(PPP)	Z		38	42
	eS	NZ		40	54		eP _{OP}	ZN		41	00
	iP	N		41	10		e	E		42	05
	e(SS)	Z		42	10		S	ZNE		42	29
	eLr	ZN		43	35		eLq	E		43	35

Irregular long period waves emerge after P on the horizontal records and continue up to S.

20d	e		12	45	ca	23d	e?	N	0	28	10
20d	e?	Z	13	19	05		e	EN		30	20
	e(P)	N		20	10	23d	e		15	57	ca
	eS	N		24	50						
	eLr	NZE		27	30	24d	e(S)	N	00	37	45
21d	P	WA	4	47	58 $\frac{1}{2}$		eLr	Z		40	00
	S	WA		48	43						
21d	eP	WAN	7	25	01						
	e(S)	E		27	00						
	eS	EZN		27	13						

Magnetic Survey, Botanic Gardens
Christchurch, NEW ZEALAND.

3rd August, 1950.

Continuation: July

CHRISTCHURCH PROVISIONAL READINGS

27d e? 12 35 ca

28d e(P) NZ 5 06 24
e Z 10 20

28d 5 18 ca

Local earthquake

29d iP ZWANE 16 56 11 59° ca
e ENZ 17 00 20
eS NE 04 16
eS_cS NEZ 05 57
eSS N 08 20
eL_q NE 11 30
eL_r Z 15 15

29d iP! ZNEWA 23 56 35 38°
ipP Z 57 00
PP ZNE 58 09
e Z 59 58

30d S ENZ 00 02 27
iS E 02 33
L_q EN 05 25
iS_cS Z 06 05
L_r Z 07 30

H.F. Baird
Director

Magnetic Survey, Botanic Gardens,
Christchurch, NEW ZEALAND.

10th August, 1950.

Continuation: July-August

CHRISTCHURCH PROVISIONAL READINGS

July

30d	e(S)	EZ	6 40 45
	e(S _{CS})	Z	42 30
	e(SS)	N	45 35
	L _r	NZ	52 05

August

1d	eL _q	N	0 27 40
	L _r	ENZ	31 25

1d	e		9 57 ca
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2d	e		9 00 ca
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2d	P	Z	11 00 25	60°ca
	ePP	Z	02 40	
	eS	ENZ	08 48	
	eSS	NE	12 40	
	L _r	ZN	19 45	

3d	e		23 18 ca	In large microseisms
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5d	iP	ZNEWA	9 18 55
	eS	ENZ	20 30

6d	e		7 19 ca
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7d	iP!	ZENWA	2 55 32	In large microseisms
	ipP	Z	56 01	
	i(P _c P)	Z	56 14	
	PP	Z	57 55	
	e(S)	E(Z)	3 03 54	
	iS	NEZ	04 04	
	sS	N	04 53	
	eSS	Z	08 10	
	eSS	EN	08 40	
	e(SSS and L _q)	NZ	11 10	

H.F. Baird
Director

17th August, 1950.

Continuation: August

CHRISTCHURCH PROVISIONAL READINGS

7d	e		16 20 ca	
10d	iP	ZWA	19 27 02	41° ca
	i	ZWA	27 16	
	e(S)	E	33 04	
	eS	NZ	33 20	
	Lg	EN	36 20	
	eSS	Z	36 25	
	eLr	Z	39 05	
11d	e(P)	WA	11 16 48	local earthquake
	e	WAN	17 00	
	e	NE	17 25	
11d	e		20 31 ca	
12d	eP	WANZ	10 49 00	
12d	e		16 23 ca	
13d	e		14 28 ca	
14d	iP!	ZE	23 03 35½	
	sp	ZE	05 43	
	e(S)	NE	06 32	
	e(S)	Z	06 44	
	i(P _{CP})	ZN	07 29	
	iS _{cS} !	EN	13 09	
	i	Z	15 08	
	i	Z	28 53	
15d	e		5 47 ca	
15d	iP	ZEN	14 23 26	
	i	ZNE	24 11	
	i	ZEN	25 04	
	i	NE	28 24	
	e	EZN	32 45	
	e(SKS)	EN	33 50	
	ePS	Z	36 45	
	eSS	Z	42 00	

H.F. Baird
Director

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Magnetic Survey, Botanic Gardens,
Christchurch, NEW ZEALAND.

7th September, 1950.

CHRISTCHURCH PROVISIONAL READINGS

Continuation: Aug-Sept.

Aug.

16d	eP e i	N EN ZE	16 17 10 18 00 19 37	ZE ZN ZNE ZE ENZ	7 16 19 16 23 19 10 21 00 24 46
17d	eP S e e iS ₀ S	ZNE NEZ EN NE ENZ	16 19 39 22 16 23 00 26 40 29 40	EN NE Z ZEN	29 00 32 05 34 45 36 30

Sept.

18d			2 05 ca	ZWA WAEN	0 19 25	Local earthquake
20d	e		10 38 ca		14 54 ca	
26d	e		5 38 ca		3 36 ca	
26d	e		7 30 ca		13 23 06 24 30 26 17	
30d	e		5 30 ca	ZN Z N N EN Z	26 30 26 50 27 50	
30d	e?	Z	7 01 00			
30d	eS	N	08 40			
30d	eLq	NE	15 45			
30d	eLr	Z	19 20			
30d	e(S)	NE	9 23 26			
30d	eLr	Z	26 40			
30d	e		23 25 ca		4 20 ca	



H.F. Baird
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18th September, 1950.

Continuation: Sept
CHRISTCHURCH PROVISIONAL READINGS

4d	e		7 58 ca	
5d	P		2 06 44	Local earthquake
7d	P	WANE	15 04 02	Local earthquake
9d	iP!	ZWAN	10 29 47	42°
	ePP	Z	31 50	
	e(P _c P)	N	35 44	
	S	EN	36 09	
	eSS	ZN	39 25	
	Lq	EN	39 40	
	eL _r	Z	42 10	
10d	iP	ZWANE	15 22 00	The absolute times for this earthquake are not known due to a partial failure of the timing system. However the records indicate that the failure may have occurred wholly before the earthquake and the times should be correct to within a few seconds.
	i	Z	22 04	
	e	Z	22 33	
	i	Z	22 51	
	e	Z	23 28	
	e	NZ	25 54	
	S	N	26 16	
	S	Z	26 22	
	e	Z	28 26	
eL _r	N	29 10		
13d	e(Lq)	E	12 06 00	
	eL _r	ZE	09 55	

21st September, 1950.

Continuation: September

CHRISTCHURCH PROVISIONAL READINGS

1950
Sept

13d	(eP)	Z	20 52 12	Interpretation doubtful
	eS	NE	57 30	
	eL _q	N	59 15	
	e(L _r)	Z	21 01 15	
14d	P	ZEN	9 16 22	
	e(S)	N	23 46	
	S	ENZ	24 08	
	eL _q	EN	27 55	
	eL	NE	32 40	
15d	P	WA	14 22 01	Local earthquake
15d	e		19 03 ca	
16d	e		1 34 ca	
18d	e		14 55 ca	
19d	eP	Z	20 38 51	50° ca. S group lost during changing of the records
	iP	ZNE	38 55	
	(P _c P)	ZN	39 56	
	PP	ZNE	40 46	
	L _r	Z	54 25	

H. F. Baird
Director



Magnetic Survey, Botanic Gardens,
Christchurch, NEW ZEALAND.

28th September, 1950.

Continuation: Sept.

CHRISTCHURCH PROVISIONAL READINGS

1950
Sept

21d eL 23 35 ca

22d	iP	ZE	8	02	28
	ePP	E		05	00
	eS	Z		10	48
	S	EN		10	55
	eSS	ZEN		14	50
	eLq	N		17	30
	Lr	ZE		20	10

22d	iP	ZWAN	23	58	41
	PP	Z		59	50
	sP	ZNE	00	00	36
	P _c P	ZN		01	49
	e _c S	ENZ		02	45
	SS	ENZ		04	55
	e	ZN	00	06	40
	e	ZN		08	10
	iS _c S!	E		08	46
	ipS _c S	Z		11	08
	sS _c S	EN		11	42

About 26-27° and 370 km. deep

H. F. Baird
Director

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Magnetic Survey, Botanic Gardens,
Christchurch, NEW ZEALAND.



Continuation: Sept-Oct.

CHRISTCHURCH PROVISIONAL READINGS

		<u>Sept</u>					
1950		26-27	27-29	26-27	27-29		
22d	iP	ZWAN	23 58 41	Sept	(eP)	Z	6 46 30
	PP	Z	59 50	29d	ePP	Z	49 45
	SP	ZNE	00 00 36		eSKS	NZ	56 24
	PcP	ZN	01 49		iSKS	E	56 30
	eIS	ENZ	02 45		S (or SKKS)	NEZ	57 11
	SS	ENZ	04 55		iPS	ENZ	58 30
	e	ZN	06 40		PPS	EN	59 35
	e	ZN	08 10		(SS)	EN	7 02 25
	iS S!	E	08 46		eSSS	EN	06 45
	ipS S	Z	11 08		eLq	N	10 10
	sS S	EN	11 42		Lr	Z	15 30
25d	eP	NE	23 36 00	<u>Oct</u>	e(P)	Z	1 46 25
	ePP	E	38 40	1d	e(S)	ZE	49 28
	eS	NEZ	44 45		eL	EN	49 50
	eSS	Z	48 30		eLr	Z	51 50
	eLq	EN	50 25	2d	e		5 04 ca
	e(SSS)	Z	51 00				
	eLr	Z	56 00	3d	e	EN	9 22 15
27d	P	ZWA	8 29 20				
	i	ZWAN	29 34				
	iS	NEZ	33 30				
	eLq	EN	34 30				
	eLr	Z	36 30				

H.F. Baird
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DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

ber, 1950.

Magnetic Survey, Botanic Gardens,
Christchurch, New Zealand.

Continuation: October, 1950

1950
Oct.

CHRISTCHURCH PROVISIONAL READINGS

4d	(e) e(S) e(L)	ZN NE EZ	18 10 00 13 50 14 50	5d	eLr	Z	23 56 10
5d	(eP) iP S e Lr	Z ZN NZ EN Z	0 46 34 46 38 49 38 49 56 51 15	8d	P i iS eSS eLq eLr	Z ZENWA ENZWA ENZ NE Z	3 32 44 33 04 40 36 44 30 46 20 49 50
5d	(eP) iP (e) ePP iPP PPP e SKS (SKKS) iPS (PPS) ePKKP SS SSS eLq eLr	Z ZE EZ EZ Z ZE Z EN N EZN Z ZE EZN EN NE Z	16 23 44 23 52 27 10 28 08 28 22 30 40 31 35 34 20 35 40 37 30 38 15 39 15 43 10 47 25 53 30 58 45	8d	P ePP PcS S eLq ScS Lr	Z Z Z EN EN ENZ Z	14 57 35 59 00 15 03 38 03 50 06 05 07 18 09 25
			106°ca	10d	P	WAZ	18 43 26

Unusually large
amplitudes for
P group
560

41° ca

Local earthquake



International
Seismological
Centre

H.F. Baird
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DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Magnetic Survey, Botanic Gardens,
Christchurch, NEW ZEALAND.



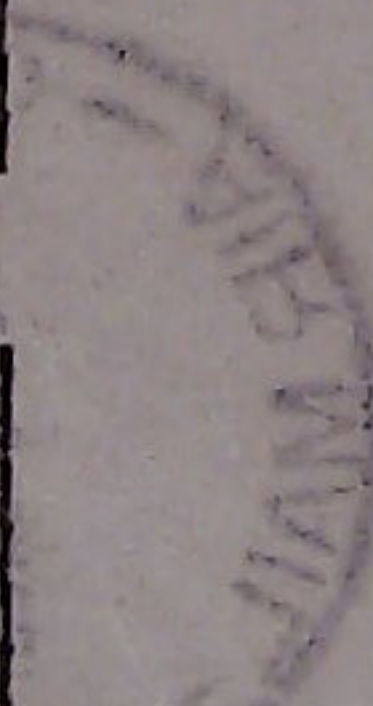
H.F. Baird
Director

27th October, 1950.

Continuation: 20 October

CHRISTCHURCH PROVISIONAL READINGS

1950 Oct.	13d	e	0 18 ca	21d	iP	ZN	4	18	41	26°ca.	In
	13d	e	7 00 ca		ePP	Z		19	30	large	
	14d	e(S) eLr	5 08 40		e(P _c P) i(S)	ZEN		21	23	microseisms	
	15d	eS eLr	14 32 35	21d	S SS eLr	N NEZ NZ Z		22	20		
	15d	iP (ePP) iP _c P e i eS Lq Lr	16 06 51 08 15 08 59 09 30 11 36 12 25 14 50 16 50	23d	e eP PP ePPP e(SKS) SKS PS e(PS) PKKP eSS eSSS e(SSSS) eLq Lr	Z E EZ Z Z EN E ZN E EN E EN E N Z	16	27	20	105°ca	
	17d	eS eLr	16 49 55 52 40					27	30		
	19d	eP S eLr	9 54 20 56 15 57 50					31	40		
								34	20		
								37	50		
								38	02		
								40	04		
								40	45		
								42	50		
								45	45		
								50	00		
								53	30		
								56	10		
								01	10		



DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Magnetic Survey, Botanic Gardens,
Christchurch, NEW ZEALAND.

2nd November, 1950.

Continuation: October

CHRISTCHURCH PROVISIONAL READINGS

24d	eP eS	Z WAE	1 48 30 50 21	27d	iP e ePP eS eLq Lr	ZWA Z Z ENZ E Z	21 34 37 35 12 35 22 39 25 40 30 43 10	29° ca
24d	e	ZWA	4 52 ca					
24d	e	Z	22 40 ca					
25d	P e eLr	ZWA Z Z	7 15 30 18 30 25 35	28d	eP S	Z ZWA	9 09 20 11 08	100ca

26d	eP eS eS	Z ZNE WA	3 53 15 55 13 55 20					11° ca
26d	P (i) SP e S eLr (eSes)	ZN Z Z Z NZ EZ Z	7 15 35 15 56 16 42 18 40 19 36 22 05 26 04					24° ca Small surface waves
26d	eP eS S Lr	Z WA ZNE Z	15 42 08 44 10 44 13 45 15					11° ca



H.F. Baird
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DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Magnetic Survey, Botanic Gardens,
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H.F. Baird
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Continuation: November

CHRISTCHURCH PROVISIONAL READINGS

950
ov.

2d	iP	ZEN	15	37	07	50° ca	7d	e	12	20	ca
	i	ENZ		38	04						
	ePP	ENZ		39	30						
	S	N		44	12		8d	iP	2	25	09
	S	EZ		44	20			e(PP)		26	27
	e	Z		45	35			PP		26	40
	eSS	Z		49	40			iS		30	41
								Lq		32	55
								Lr		34	40
								(S _c s)		35	35

4d

e	ENZ	7	33	15
e	ZNE		35	22
e	ZEN		37	20

5d

eP	ENZ	18	00	28	8d	e	eLq	6	56	25
eS	NE		06	15			eLr	7	01	ca
eLq	EN		09	40						
eLr	Z		13	40						

00-28
 37-27

 23-01

6d

eP	ZNE	22	29	45	38° ca
PP	ZNE		31	14	In large
eS	ENZ		35	25	microseisms
eLq	EN		38	00	
eSS	Z		38	10	
eLr	Z		41	20	

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Magnetic Survey, Botanic Gardens,
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16th November, 1950.

Continuation: November

CHRISTCHURCH PROVISIONAL READINGS

1950
Nov.

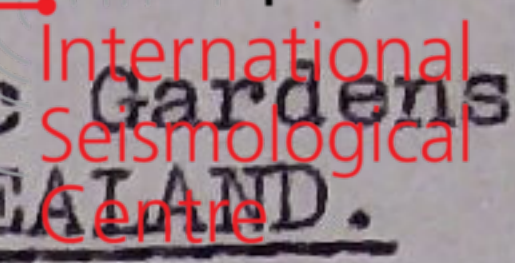
9d	e?	12 30 ca	14d	P	Z	4	30	33	All records rather disturbed
10d	P	5 09 24	14d	ePP	Z	4	30	33	
	e(SP)	10 02		(e)	Z		31	52	
	eS	10 30		e	Z		32	20	
	eSS and	13 54		eS	EN		34	45	
	Lq	15 02		e(SS)	E		35	36	
	eLr	16 30		eL	EZN		37	08	
			14d	eLr	Z		38	30	
				e(L)			41	10	
				eLr	E		47	20	
				i	ZNE		51	10	
					Z		55	42	

11d	P	3 46 15							
	PP	47 53							
	S	52 21 40							
	eSS	55 20							
	eLr	57 55							
11d	e	14 40 ca							
11d	e	22 34 20							
	eLr	37 50							
12d	e	22 05 ca							



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30th November, 1950.

Continuation: November

CHRISTCHURCH PROVISIONAL READINGS

1950
Nov.

17d e 20 26 ca

24d eL EN 13 17 45

24d L_q(S) EN 20 32 25
e(SS) Z 33 00
eL_r Z 34 30

Early phases may be lost
during record changing

25d L EN 5 35 20

26d e 9 58 ca

26d e 14 40 ca

26d e 15 59 ca

Local earthquake

27d e 2 17 ca

27d e 3 50 ca

27d e E 12 43 34
eL_r Z 51 10

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Magnetic Survey, Botanic Gardens,
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6th December, 1950.

Continuation: December

CHRISTCHURCH PROVISIONAL READINGS

1950

Dec.

1d	ePKP	Z	15 10 15	136°ca	3d	e	00 50 ca
	PP	ZEN	12 54		3d	e(P)	2 10 10
	PKS	ENZ	13 50		3d	e	15 50
	PPP	ZEN	15 40		3d	e(S)	3 19 10
	SKS	EZ	17 00		3d	e(Lr)	3 22 30
	eSKKS	EZ	19 52		3d	iP	7 53 07
	ePS or SKSP	EZ	22 45		3d	(i)	53 39
	PPS	ZEN	15 25 04			S	57 34
	e	EZN	27 40			SS	58 12
	SS	NZE	30 59			eLr	8 00 12
	eSSS	EZ	35 50			e	99 52 ca
	eLq	NE	46 20			e	13 49 ca
	eLr	Z	55 00			e	16 15 25
1d	e	Z	17 50 ca			e	19 12 ca
2d	e	E	15 41 50			e	
	e	EZN	44 45			e	
	e	ENZ	46 02			e	
2d	eL	EN	17 44 30			e	
2d	eIP	Z	19 57 16	26°ca		e	
	iP	NEWA	57 19			e	
	PP	WAZNE	57 59			e	
	e	WAE	58 50			e	
	e	WA	20 01 14			e	
	eS	E	01 40			e	
	eS	N	02 00			e	

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14th December, 1950.

Continuation: December, 1950.

CHRISTCHURCH PROVISIONAL READINGS

Date	Time	Station	Instrument	Reading	Direction	Notes
4d	2 00 ca		eS	8 54 00	NE	
4d	4 06 ca		eLq eLr	55 40 57 30	E Z	
4d	7 43 44	ZN	e	12 08 ca		25°
	44 38	Z				
	48 00	E				
	48 04	EN		17 02 ca		
	48 45	NE				
	50 30	ZE				
4d	10 24 20	ZN	e(S)	17 04 20	N	
	28 40	N	Lg	17 06 50	EN	
	29 22	N	eLr	10 40	Z	
	29 40	E				
	31 20	E				
4d	11 18 00	EN	e	23 06 ca		25° ca
	21 30	Z				
4d	16 35 49	ZWANE	e	1 12 ca		
	36 12	Z				
	36 27	Z		7 20 ca		
	37 30	ZNE				
	40 38	ZE				
	41 55	ENZ				
	44 30	ENZ				
	45 26	EN				
	47 45	Z				
4d	20 18 30	Z	iP!	21 51 50	ZEN	In large microseisms
	22 43	NE	ePP	55 35	ZEN	
	26 15	Z	ePPP	58 15	ZEN	
			iSKS	22 02 15	EN	
			iPS	04 12	Z	
			SS	09 35	NZ	
			eLq	17 10	EN	
			eLr	22 30	Z	

Unusually large P amplitude

LgSS

In large microseisms

94° ca In large microseisms

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19th December, 1950.

Continuation: December, 1950.

CHRISTCHURCH PROVISIONAL READINGS

1950
Dec.

10d	e(S) eLr	Z ZEN	3 32 40 34 30	In large microseisms	14d	iP PP e(S) iS eLr	ZN Z E EN Z	0 37 08 37 36 41 30 41 35 44 00	26°
10d	eS eLq eLr	EN EN ZN	9 18 20 19 45 22 10	In large microseisms	14d	iP iS	ZWANE ENZWA	1 58 04 2 02 15	24°
10d	e(S) e(Lr)	ENZ ZN	9 54 45 58 25	In large microseisms	14d	iP ePP ePPP e SKS S e(PS) ePPS eSS eLq eLr	ZE ZEN ZE ZE E NZ ENZ ENZ EN E Z	14 29 48 33 30 35 24 39 40 40 20 40 42 41 46 42 50 47 10 56 00 15 01 00	94°ca
10d	e(S) e(Lq) e(Lr)	EN E Z	11 27 20 28 50 32 10	In large microseisms					
10d	iP eP e iSP iS iScS	Z WAE WAE ZNE WA EWA	13 26 41 26 43 27 30 27 59 29 29 37 50	16° About 300 km. deep					
12d	e		2 48 ca						
12d	eLr	ZNE	2 05 ca						
<u>Additional:</u>									
	2d	eSKS eS ePS ePPS e(SS)					E EZN E E EN	15 41 50 46 02 47 56 49 50 54 00	

H.F. Baird
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DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

Magnetic Survey, Botanic Gardens,
Christchurch, NEW ZEALAND.

5th January, 1951.

Continuation: Dec. 1950 - Jan. 1951

CHRISTCHURCH PROVISIONAL READINGS

1950 <u>Dec.</u>									
16d	e	15 35 ca		26d	e	.	14 41 ca		
18d	(e)	Z 2 33 20		27d	e		23 40 ca		
	e(s)	ZEN 35 00							
	Lr	Z 36 25		30d	eP	WA	6 46 30		13 ^o ca
					eS	WAEN	48 56		
18d	eP	ZNE 15 54 25	55 ^o ca	30d	e(P)	WA	21 20 11		
	PP	ZE 56 25			(e)	ZWA	24 30		
	PPP	ZEN 57 40			e	EN	25 50		
	S	NEZ 16 02 05							
	e(S _c s)	EN 03 30							
	eSS	E 06 15							
	eLq	N 07 40							

20d e 8 31 ca

21d (e) 3 00 ca

22d e 10 00 ca

25d P Z 1 39 12 Local earthquake

25d e 15 50 ca

