Department of Scientific & Industrial Research.

DOMINION OBSERVATORY, WELLINGTON N.Z.

N E W Z E A L A N D S E I S M O L O G I C A L R E P O R T.

Provisional Bulletin No. P-131. 1943, January.

DISTANT EARTHQUAKES (Wellington Δ=>10°ca)

Station abbreviations :- AK = Auckland. AP = Arapuni, CH = Christchurch
W = Wellington.

Date 1943	Station	Phase	G.M.T. h.	m.	s.	Δ deg.	Remarks.
January 2	AK	P	19	32	20	22	
		S		36	20		
	W	S	19	38	20		
9	W	P	02	20	01	25ca	(Trace amplitude on Z = +2 mms.)
		S		24	24		
		S	02	24	01	27ca.	
	AK	L	02	27ca			
	AP	L	02	28·5			
27	W	P ?	02	58	30	95ca	Rather small, in microseisms.
		SKS	03	08	50		
		S		09	24		(Prominent).
	AK	SKS	03	08	25		
		S?			45		
	CH	PP	03	09	08	73ca	
		S		15	45		
	AP	SKS	03	08·4			
30	CH	P	06	05	40	53	
		S		13	04		
	AK	L	06	33ca			
	AP	L	06	30ca			

In addition, minor activity was recorded as follows :-

Station	d.	h.	m.	d.	h.	m.	d.	h.	m.	d.	h.	m.
W	2	06	08 ca	2	10	44ca	3	02	56+	5	12	41ca
	6	10	39+	7	04	08ca	8	20	17+	10	03	53ca
	(L)13	08	13ca	(L)11	10	54ca	12	19	40?	13	00	50+
	13	19	53ca	14	02	30+	(L)14	14	09+	(L)14	14	26ca
	14	16	06ca	14	19	30ca	15	02	52ca	17	17	56ca
	19	05	30?	(L)19	08	37ca	19	11	49ca	20	11	41ca
	22	06	44ca	(L)23	00	40ca	(L)24	21	29ca	28	02	11ca
	30	12	31ca									
CH	2	06	08ca	2	10	42ca	3	02	57+	6	10	45ca
	10	08	18ca	11	10	50ca	11	13	13ca	13	19	48+
	14	02	28ca	14	14	08ca	14	16	05+	14	19	30+
	15	00	51ca	19	08	36ca	19	11	51ca	22	06	59+
	23	00	39+	(L)24	21	30ca	31	04	39ca			
AK	8	02	57+	6	10	50ca	8	19	15ca	8	20	16+
	9	18	49+	13	00	49+	(L)13	10	20ca	13	14	20ca
	(L) 13	19	54ca	14	02	26ca	(L)14	06	23ca	14	02	26+
	(L) 14	16	10ca	14	19	31+	19	11	46+	(L)22	07	00ca
	(L) 23	00	36+	(L)24	21	30ca	(L)25	05	48ca	(L)26	01	00ca
	27	06	30ca	30	12	31+	31	19	36ca			
AP	7	04	06ca	13	00	48ca	14	02	30ca	19	11	49ca
	22	07	01ca	23	00	30ca	(L)24	21	28ca	30	12	29ca

Provisional Epicentres in South-West Pacific
(excluding the New Zealand Region).
Continuation of List given in Bulletin P-128 .

P-133

Department of Scientific & Industrial Research.

DOMINION OBSERVATORY, WELLINGTON N.Z.

N E W Z E A L A N D S E I S M O L O G I C A L R E P O R T.

Provisional Bulletin No. P-133. 1943. March.

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DISTANT EARTHQUAKES (Wellington $\Delta > 10°$ ca.)

Station Abbreviations :- AK = Auckland, AP = Arapuni,
B = Bunnythorpe, CH= Christchurch,
K = Kaimata, N = New Plymouth,
TU = Tuai, W = Wellington.

Date 1943	Station	Phase	G.M.T. h.	m.	s.	Δ deg.	Remarks.
March 4	TU	P	06	35	47	17	EPICENTRE SOUTH of FIJI.
		S		38	30		
	N	P	06	36	06	18½	
		S		39	01		
	W	P	06	36	15	20	FOCAL DEPTH 600 km.ca.
		S		39	25		
		ScS		46	26		
	AK	S	06	38	17		
	CH		06	40ca			(Seismic activity)
9	CH	P	10	00	43	75	
		S		10	19		
	W	SKS	10	00	51	110+	Heavy microseisms.
		PS		03	55		
	AK	e	10	05			
	AP	SS	10	11·0			
	TU	SKS?	10	01	15ca.		
	N	SKS	10	01ca.			
11	AK	P	09	37	52	16½	
		SP		38	22		EPICENTRE EAST of NEW CALEDONIA
		S		40	50		
	TU	P	09	38	23	19	
		S		41	45		
	W	P	09	38	41	20½	(trace amplitude on Z = + 5 m.m.)
		sP		39	09		
		S		42	20		
		PcP			30		(Large)
		sS			54		FOCAL DEPTH 100 km.ca.
	K	P	09	38	52	22+	
		S		43	47		
	CH	P	09	39	04	22	
		S		42	58		
	AP	P	09	37+			
		S		41·1			
	N	S	09	41	50		
14	AK	P	17	14	45		
	TU	P	17	15	15	17½	EPICENTRE EAST of NEW CALEDONIA
		S		18	35		
	W	P	17	15	35	19½	(Trace amplitude on Z = -5 m.m.)
		S		19	10		
	K	P	17	15	46	21	
		S		19	38		FOCAL DEPTH NORMAL
	CH	P	17	15	51	23	
		S		19	55		
	AP	P	17	(15.0) (18.0)			
	N	S	17	18	36		
	B	L	17	20ca			

Date 1943	Station	Phase	G.M.T. h.	m.	s.	Δ deg.	Remarks.
March15	AK	P	02	28	13	17	
		S		31	15		EPICENTRE SOUTH of NEW HEBRIDES
	TU	P	02	28	41		
	N	P	02	28	45	19½	
		S		32	21		FOCAL DEPTH
	W	P	02	28	58	21	NORMAL
		S?		32	30		
	K	P	02	29	15		
	CH	P	02	29	23		
		S		33	19		
	AP	P?	02	29·0			(May be PP)
		S		32·8			
15	TU	P	04	57	58		
	W	P	04	58	02	58ca	
		S	05	06	10		
	AK	S	05	05	30		
	CH	P	05	03	26	16	
		S		06	19		
	AP	e	05	05·0			
		S?		06·0			
15	AK	P?	14	14	25		
		S		17	17		
	TU	P	14	14	57		
		S		17	58		
	W	P	14	15	10	20ca	
		S		18	38		
	CH	P	14	15	26	22	
		S		19	26		
	AP	S	14	17·7			
15	AK	P	23	04	10	17½	
		S?		07	52		EPICENTRE SOUTH-EAST of FIJI.
	TU	P	23	04	10	18	
		S		08	05		
	AP	P	23	04.0			
		S?		08·1			FOCAL DEPTH 520-550 km.
	N	P	23	04	25		
	W	P	23	04	35	20	(Trace amplitude on Z = -7 m.m.)
		pP?		06	12		
		S		07	45		
		ScS		14	55		
	K	P	23	04	57		
	CH	P	23	05	02	29	(Dilatation)
		pP		06	08		
		S		09	38		
		sS		11	37		
		ScS		14	55		
18	AK	P	10	48	21	20ca.	
		S		52	03		
	TU	P	10	48	27		
		S		52	17		
	W	P	10	49	15	22-23	(Trace amplitude on Z= -5 m.m.)
		S		53	17		
	CH	P?	10	49	53	21	
		S		53	45		
	AP	S	10	52·0			
20	AK	P	04	55	17	20ca	
		S		59	02		
	TU	P	04	55	29		
	N	P	04	55	38		
	W	P	04	56	00	20-21	(Trace amplitude on Z= + 5 m.m.)
		S?		59	44		
	K	P	04	56	17	25+	
		S	05	00	40		
	CH	P	04	56	26	25	
		S	05	00	50		
	AP	S	04	59·1			
21	AK	P	20	43	02	40ca	
		S		49	00		EPICENTRE NEW GUINEA REGION
		sS			36		
	TU	P	20	43	25	44½	
		S?		49	30		

1947	Stn.	Phase	h.	m.	s.	Amp.	Remarks
March 21	N	P	20	43	13	43½	FOCAL DEPTH 60-80 km.
		S		49	35		
	W	P	20	43	29	43	(Trace amplitude on Z = -3 m.m.)
		S		49	46		
		sS		50	17		
	K	P	20	43	32	42+	
		S		49	45		
	CH	P	20	43	36ca	40	(Beginning just on chart in records).
		S		49	55		
	AP	P?	20	(45·0)			
		S		(49·0)			
23	AK	P?	08	59	03		FOCAL DEPTH 100 km.+.
		S	09	02	25		
	TU	P	08	58	32		
		S	09	02	04		
	W	P	08	58	52	23	
		pP		59	10		
		S	09	02	52		
	CH	S	09	03	29	22ca	
	AP	S	09	02.1			
24	AK	P	11	14	37		EPICENTRE between TONGA and KERMEDECS
		pP			53		
	TU	P	11	14	51		
		S		17	36		
	W	P	11	15	19	17ca	
		pP			35		
		S		18	25		FOCAL DEPTH 50 - 100 km.
	N	S	11	18	05		
	CH	e	11	17	31		
		i		19	10		
25	AK	P?	18	40	35ca		
		S?		51	50		
	W	P	18	39	12	80-81	(Trace amplitude on Z = +2 m.m.)
		pP			35		
		S		49	02		
	CH	P	18	39	01	73	FOCAL DEPTH 85 km.
		S		48	26		
	AP	S?	18	49ca			
26	AK	P	17	41	56	16½	EPICENTRE SOUTH-EAST of TONGA felt NUKUALOFA according to APIA FOCAL DEPTH 80 - 100 km.
		S		44	58		
	TU	P	17	42	38		
		S		45	02		
	AP	P	17	42+			
		S		(45·6)			
	N	P	17	42	28	18½	
		S		45	48		
	W	P	17	42	40	19½	
		S		46	08		
		ScS		54	11		(Large amplitude on H)
		sScS			53		" " "
	K	P	17	43	17	21+	
		S		47	00		
	CH	P	17	43	13	22	
		S		47	12		
		ScS		54	22		

In addition, minor distant activity was recorded as follows :-

Station.	d.	h.	m.	d.	h.	m.	d.	h.	m.	d.	h.	m.
W	(L) 1	17	26ca	2	19	03+	3	02	45ca	3	10	29+
	4	01	50	5	00	50+	(L) 5	02	02ca	6	01	47
	7	03	26+	7	16	30ca	9	20	04+	10	08	27+
	(L)12	18	50ca	(L)12	23	08ca	13	14	41+	(L)14	12	39ca
	14	13	03ca	14	17	44+	15	01	27+	15	12	14+
	15	14	52+	16	23	09+	17	03	06ca	18	23	46ca
	19	01	21ca	?19	03	25ca	19	09	28ca	22	08	43+
	24	00	35+				24	07	31+	24	09	04ca
	25	11	29ca	28	21	00ca	(L)29	06	05ca	29	09	57+
	(L)29	23	50ca									

		h.	m.	s.		h.	m.	s.		h.	m.	s.		h.	m.	s.
CH		1	17	09+		2	19	02+		5	02	49ca		9	10	34ca
		4	02	04ca		5	00	05+		7	03	19+		9	11	36+
		10	08	36+	(L)	11	09	43+		12	18	33+	(L)	13	14	54ca
		14	12	39ca		14	13	05+		15	01	30+	(L)	15	12	17+
		16	23	09+		17	03	09+		19	09	24ca		20	03	51+
		22	08	43+		24	0[illegible]	31+		24	08	57+		25	0[illegible]	59ca
		25	11	25ca		29	05	55+	(L)	29	06	02+		29	09	56+
		30	13	54ca		31	22	35ca								
	(L)	1	17	27ca		2	02	05+	(L)	3	02	47+		3	10	31+
		4	01	47ca		5	01	04+		5	02	04+		7	03	26+
AK		9	20	06ca	(L)	10	08	59ca		13	14	51+		14	13	05ca
		15	01	26+		15	06	45+		15	12	14ca		15	14	51+
		16	23	08+		17	03	07+		22	08	44+		24	00	34+
		24	07	33+		24	09	00+		28	21	01ca		29	23	48ca
		31	10	48+												
AP		5	01	00ca		7	03	26ca	(L)	13	14	51		14	13	12
		15	01	25ca		15	06	45ca		15	12	14ca		15	14	54+
	(L)	16	23	13+		22	08	55ca		23	08	36ca?		24	00	35ca

LOCAL EARTHQUAKES (Wellington Δ = < 10°ca).

Particulars of the principal local shocks are tabulated below. The column headed "Q" is the accuracy of the epicentre determination (See Bulletin P-108, pp 1-2), "h" is the focal depth ("N" = Normal depth) and "M" is the instrumental magnitude (See Bulletin P-104, p3)

No.	Date 1943	Origin Time (G.M.T.)	Provisional Epicentre Lat	Long.	Q	H km.	M	Felt Area & Maximum Intensity-Modified Mercalli Scale(M-M)
		h. m.	deg.	deg.				
53	March 1	07 44.0	40.5S	174.0E	B	70-80	5	Te Kuiti & Waipawa to Greymouth & Rakaia (V).
54	" 1	15 34ca	41S	175.7E	D	-	-	Masterton (III-IV)
55	" 1	19 24.2	43.5S	170.5E	C	-	3½	
56	" 3	19 49.9	40.5S	176.5E	C	-	3	
57	" 8	06 03.8	41.4S	175.6E	C	40ca	3½	Wairarapa, Wgton(IL)
58	" 8	12 25ca	41S	175.7E	D	-		Masterton (II)
59	" 8	14 34.1	41.3S	175.9E	C	40ca	3-3½	Masterton (II)
60	" 14	08 45.4	44.7S	168.2E	C	40-50	5½-6	Southern part of South Is. (VI)
61	" 14	13 00ca	44.7S	168.2E	D	-		Milford Sd. Queenstown (?)
62	" 14	15 13ca	44.7S	168.2E	D	-		Milford Sd. Queenstown (?).
63	" 14	17 00ca	44.7S	168.2E	D	-		Milford Sd. Queenstown (?)
64	" 15	22 50.6	39.9S	176.9E	B	N	3½	
65	" 16	06 03.1	40.7S	173.9E	B	70ca	4½	Southern part North Island & about Cook Strait (III).
66	" 16	08 44.4	39.2S	175.4E	B	150ca	4ca	Dannevirke (II)
67	" 17	01 46.4	41.2S	172.5E	C	-	3½	Murchison (III)
68	" 21	06 23.8	41.7S	172.7E	C	-	3½-4	Westport (II)
69	" 23	04 10.5	41.2S	176.0E	D	-	4ca	Masterton (III)
70	" 23	23 57.8	39.9S	177.7E	B	-	3½-4	
71	" 25	05 52.4	42.1S	172.5E	C	-	3-3½	Westport. (V)
72	" 29	09 53.5	35S	178W	D	-	5-5½	
74	" 31	23 06.3	40.9	172.5E	B	-	3½	Upper Takaka, Karamea (II)
73	" 31	07 16.0	45S	168E	D	-	4	Milford Sound (IV)

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Brisbane - 1943 February.
Perth - 1943 Jan, Feb.
Ksara - 1942 Oct - Dec.
Sydney - 1942 Sept. - Oct.
Pasadena & auxiliary Stations, - 1941 Jan. - March.

Department of Scientific & Industrial Research.

DOMINION OBSERVATORY WELLINGTON N.Z.

N E W Z E A L A N D S E I S M O L O G I C A L R E P O R T.

Provisional Bulletin No.P-134. 1943, April.

DISTANT EARTHQUAKES (Wellington Δ = >10°ca.)

Station Abbreviations :- AK = Auckland, AP = Arapuni, CH = Christchurch, K = Kaimata, N = New Plymouth, TU = Tuai, W = Wellington.

Date 1943.	Station.	Phase.	G. M. T. h. m. s.	Δ deg.	Remarks.
April 1.	W	P	14. 29. 17	73ca	(In microseisms)
		S	38. 29		
	CH	P	14. 29. 21	67	FOCAL DEPTH 60-70 km.
		S	38. 22		
	AP	P?	14. 28.4		
		S	38.6		
	AK	S?	14. 38 42		
5.	W	P	20. 53. 02	54ca	(Az = -3 m.m.)
		S?	21. 00.5ca		
	CH	P?	20. 53 19	42	FOCAL DEPTH 70 km.ca.
		S	59. 34		
	AK	S	21. 00 05		
	AP	S	21. 00ca.		
6.	AK	P	16. 19 04	84ca	
		S	29 27		
	TU	P	16. 19 58	85ca	
		S	30 24		
	N	P	16. 20 26	83ca	
		S	30 39		
	AP	P	16. 20.5	85ca	
		S	31.0		
	W	P	16. 19 51	80ca	(Az = +12 m.m.)
		S	30 10		
	CH	P	16. 19 51	83	(Compression)
		S	30 11		
	K	P	16. 20 02	85ca	
		S	30 31		
7.	W	P	23. 30 39	73ca?	(Az = +4 m.m.)
		S?	40 55		
	CH	P?	23. 30 39	82ca	
		S	40 55		
	AK	S?	23. 41 20		(May be SKS).
	AP	S?	23. 41.2		" " "
9.	AU	P	08. 59 20	3ca	
		S	09. 07 43		
	W	P	08. 59 28	65ca	
		S	09. 07 59		FOCAL DEPTH 60-100 km.
		eS	08 40		
	AK	S	09. 05 00		
	CH	S	09. 08 17	68ca	
	AP	e	09. 04.4		
		S	07.5		
11.	W	P	14. 58 32	76ca	(Az = - 2 m.m.)
		S	15. 08 07		
	CH	P	14. 58 40	82	
		S	15. 08 55		
	AK	S	15. 08 07		
	AP	P?	15. 01ca		
		S	08.3		
13	CH	P	12. 47 44		
		S	54 39		

Date 1943	Station	Phase	G.M.T. h.	m.	s.	Δ deg.	Remarks.
April 13th(ctd.)							
	W	PcP?	12	39	38	60-70	
		S		47	35		
	AK	S	12	47	18		
15.	W	P	11	47	21	87ca.	
		SKS		57	42		
		S		58	10		
	CH	P?	11	47	24	81	
		S		57	24		
	AK	SKS	11	57	50		
		S		58	12		
	AP	S	11	58.0			
28	AK	P	23	46	05	13ca	
		S		48	23		
	AP	S	23	(46.2) (51.6)			ΔT not known
	W	P	23	46	35	17ca	
		S		49	19		
		ScS	23	46	50	18ca	(Δz = - 4 m.m)
	K	P		49	43		FOCAL DEPTH 500 km. ca
		S?		57	33		
		ScS?	23	47	09	20ca	
	CH	P		50	17		
		S		57	35		
			23	47	10	17.5	
				50	23		
29	AK	P	19	51	12	9ca	EPICENTRE VICINITY of KERMADECS
		S		52	55		
	TU	P	19	51(21)		9ca	
		S		53(07)			FOCAL DEPTH GREATER than NORMAL ?
	N	P	19	51	40	11ca	
		S		53	45		
	W	P?	19	51	51	12ca	
		S		54	10		
	K	S?	19	55	12		
	CH	S	19	55	06		
30	CH	P	01	24	09	67ca	
		S		33	12		
	W	S?	01	42	45		
	AK	i	01	45	35		

In addition, minor activity was recorded as follows :-

Station	d.	h.	m.	d.	h.	m.		d.	h.	m.	d.	h.	m.
W	3	13	21+	3	15	01+	(L)	5	03	04ca	7	03	25ca
	7	13	30ca	7	22	47		12	20	06ca	(L)13	09	42ca
	(L) 14	07	56ca	16	16	44+		17	02	54	17	11	35ca
	18	05	25ca	20	15	15+	(L)	23	18	51ca	26	01	26ca
	26	12	49ca	27	21	01ca		29	15	49ca	(L)30	21	27ca
CH	2	01	15ca	3	13	25+		7	03	23ca	7	13	19+
	7	22	47ca	12	20	21ca		14	07	54ca	16	00	01ca
	16	16	45+	17	02	54+		18	00	51ca	18	05	19+
	19	01	47ca	20	15	16+		23	18	49ca	24	03	43ca
	26	01	26	26	05	04ca		26	12	24+	27	01	13ca
	27	21	04ca	27	22	22ca							
AK	3	12	33+	3	13	21+		3	15	03+	5	07	49ca
	7	03	28ca	8	09	57ca		16	16	44+	17	02	53+
	17	11	41+	18	05	23+		20	15	15+	22	03	17+
	(L) 29	16	04ca										
AP	3	12	30ca	3	13	24+		3	15	07ca	7	03	28ca
	7	13	32ca	(L)7	22	52ca		16	16	48	17	03	00ca
	23	18	53ca	26	01	40ca							

Provisional Epicentres in South-West Pacific
(excluding the New Zealand Region)
Continuation of List given in Bulletin P-131.

1942	h.	m.	Lat	Lon	q	km
Sept 14	11	31.0	22½S	171½E	A	100+
Oct 6	11	50.2	4½S	150½E	A	50-60
Nov 5	11	26.8	18S	168E	B	60-80
" 7	07	32.0	7S	123E	B	180-200

LOCAL EARTHQUAKES (Wellington Δ = <10°ca)

Particulars of the principal local shocks are tabulated below. The column headed "q" is the accuracy of the epicentre determination(See Bulletin P-103,pp.1-2) "h" is the focal depth ("N"= Normal depth) and "M" is the instrumental magnitude (See Bulletin P-104 p3.)

No.	Date 1943	Origin Time (G.M.T.)		Provisional Epicentre			h		Felt Area & Max. Intensity. Mod. Mercalli Scale(MM
	April	h.	m.	Lat. (deg.)	Long. (deg.)	q	km.	M	
75	2	08	27.6	40.3S	172.2E	B		3½-4	
76	6	12	53.2	39.2S	177.7E	C	N	4-4½	Wairoa region(V)
77	6	12	58.5	39.2S	177.7E	C	N	3½	Wairoa (I)
78	6	13	05.0	39.3S	177.6E	C	N	4½	Hawkes Bay (V)
79	6	19	58.0	39.2S	177.7E	C	N	3½-4	Wairoa (III)
80	7	03	35.6	39.3S	177.6E	B	N	4½-5	Hawkes Bay (V)
81	7	13	21.1	39.3S	177.6E	D		3	Wairoa,Portland Island (III)
82	7	13	25.6	39.3S	177.5E	C	N	4-4½	Hawkes Bay (IV)
83	7	15	23.6	39.2S	177.8E	C	N	3½-4	Wairoa (II)
84	7	19	18.0	41.2S	176.0E	C		3½-4	Masterton (II)
85	7	20	03.6	37.1S	177.7E	C	N	4	
86	7	20	36.4	37.0S	177.5E	C	N	4	
87	8	05	12.2	40.5S	174.3E	B	70	4½	Foxton,W'gton(III)
88	10	13	54.7	41.3S	175.6E	C	N	3½-4	Eastbourne(III)
89	10	17	37.7	40.7S	176.7E	C		4	Dannevirke,Palmerston North,Wairarapa (I).
90	11	07	33ca	41.0S	175.8E	D			Masterton (II)
91	11	11	06.0	41.3S	174.8E	D		3	Wellington (II?)
92	13	22	30.8	38.6S	176.4E	B	250	4	
93	14	10	06.6	41.2S	175.9E	C		3-3½	Masterton (III)
94	15	05	29.0	40.8S	175.7E	B	40	4½	Southern part North Island (V)
95	15	05	52.1	40.8S	175.8E	C	N	3½	Manawatu,Wairarapa,(V)
96	15	08	18.3	43.5S	171.0E	C		3	
97	16	21	12.8	40.9S	175.9E	C		4	Masterton (IV)
98	17	17	53.5	40.9S	175.9E	D		3	Masterton (II)
99	18	08	20.5	40.3S	174.5E	D		3½	
100	18	09	24.5	42.4S	172.9E	B	N	3-3½	Hanmer Springs (III).
101	21	20	24.2	40.4S	175.7E	C		3½-4	Eketahuna, Foxton (I)
102	25	16	42.8	42.0S	177.2E	C	>N?	4½-5	
103	28	15	14.4	39.3S	175.1E	C		4	Whangamomona(II)

ACKNOWLEDGEMENTS.

The Dominion Observatory gratefully acknowledges receipt of the following seismological bulletins :-

Apia ..... 1943, January to March.
Brisbane..... 1943, March.
Ottawa..... 1942, December.
Sydney ..... 1942, November, December.

Department of Scientific & Industrial Research.

DOMINION OBSERVATORY, WELLINGTON. N.Z.

N E W Z E A L A N D S E I S M O L O G I C A L R E P O R T.

Provisional Bulletin No.P-136,1943 ,June.

DISTANT EARTHQUAKES (Wellington Δ > 10° ca.)

Station Abbreviations :- AK = Auckland, AP = Arapuni, CH = Christchurch, N = New Plymouth, TU = Tuai, W = Wellington.

Date 1943	Station	Phase	G.M.T. h.	m.	s.	Δ deg.	Remarks.
June 3	AK	P	19	58	53	27ca	Felt Apia M-M II (Apia Seis. Bulletin)
		S	20	03	24		
	W	P	19	59	32	30ca	
		S	20	04	22		
	AP	S	20	03.0			
	CH	L	20	07ca.			
3	AK	P	20	53	12	25ca	Felt Apia M-M III (Apia Seis. Bulletin)
		S		57	24		
	TU	P	20	53	28	26ca	Focal Depth = 200km+
		S		57	45		
	W	P	20	53	52	30ca	(In large microseisms)
		pP		54	38		
		S		58	38		
	AP	S?	21	00ca			
	CH	(L)	21	02ca			
7	CH	P	23	31	49	74	
		PP		35	03		
		S		41	21		
	W	PP	23	34	42	80ca	
		S		41	32		
	AK	S	23	41	25		
	AP	S?	23	40.0			
8	AK	P?	20	54	11	80ca	(Small)
		S	21	03	55		
	CH	P	20	54	18	73	
		S	21	03	46		
	W	P	20	54	24	76ca	(Az=+3mm) Focal depth 100 km.+
		S	21	03	55		
	TU	P	20	54	40	78ca	
		S	21	04	12		
	AP	e?	20	56ca			
		S	21	04ca			
9	CH	P	03	18	02	75	
		S		27	39		
	W	P	03	18	13	77ca	(In microseisms) Focal depth 100 km.ca.
		pP?			40		
		S		27	48		
	AK	P?	03	18	20	77ca	
		S		27	50		
	TU	P	03	18	33	77ca	
		S?		28	03		
	AP	e?	03	22+			
		S		26.7			
13	AK	P	05	24	20	80ca	
		S		34	13		
	CH	P	05	24	25	80ca	
		S		34	27		
	W	P	05	24	41	82ca	(Az=+7mm) Focal depth 60km.ca
		pP			56		
		S		34	43		
	AP	e?	05	30ca			No time marks.
		S		35ca			

No.	Date 1943	Origin Time (G.M.T.) h. m.	Provisional Epicentre Lat. deg.	Long. deg.	Q	h km.	M	Felt Area & Maximum Intensity (M-M. Scale)
119	June 8	00 30.4	45.3S	168.0E	C	80ca	4½-5	
120	" 9	02 50.7	39.1S	176.8E	B	70ca	5-5½	North Island south of Gisborne.
121	" 17	02 03.6	44.7S	168.0E	C	60-70?	4-4½	Taupo & Wanganui(IV) Queenstown, Milford Sound(III)
122	" 23	01 00.7	40.0S	173.0E	C		4-4½	
123	" 25	16 46.0	41.2S	172.6E	C		3½	
124	" 27	03 24.4	40.4S	173.0E	C		4	
125	" 27	14 29.6	39.1S	173.9E	C		3½	New Plymouth(II)

A C K N O W L E D G E M E N T S.

The Dominion Observatory gratefully acknowledges receipt of the following seismological bulletins :-

APIA ..... 1943, April - June (Preliminary)
BRISBANE ..... 1943, May.
RIVERVIEW ..... 1943, Jan, Feb, March.
OTTAWA ..... 1943, March.
UNITED STATES COAST & GEODETIC SURVEY ..... 1940, Sept, Oct, Nov, Dec.
KSARA ..... 1943, Jan, Feb, March.(Provisional)

1943	tion						
June 13	AK	SKS			59	48	
	W	P		08	49	55	90ca
		SKS		09	00	17	
	CH	e		08	59	31	
	AP	e?		08	57ca		
15	CH	P		11	23	29	88ca
		SKS			34	03	
		S?				19	
	W	P		11	23	24	85ca
		pP				45	
		SKS			33	45	
		S			34	00	
	AK	S?		11	5	35	
	AP	S?		11	5ca		
24	W	P		20	26	58	24ca
					31	02	
	CH			20	27	15	
					31	47	
29	W	P		09	13	14	63
		pP				55	
		sP			16	13	
		PP			17	33	
		S			23	28	
		sS			24	53	
	CH	P		09	15	18	61
		PcP				56	
		S			23	35	
	AK	S		09	23	07	
	TU	P?		09	15	20	

(Az= -2mm.)
Focal depth 50-100km

Focal Depth 200km+

(Az = +3mm).
Focal Depth 200 km+

(Sharp)

(Sharp)

In addition, minor activity was recorded as follows :-

Station	d.	h.	m.	d.	h.	m.	d.	h.	m.	d.	h.	m.
W	(L) 1	08	25ca	2	04	54ca	3	12	16±	9	04	08+
	11	08	20+	11	08	33ca	(L) 12	16	38ca	(L) 13	18	21ca
	(L) 14	03	41ca	(L) 14	17	05ca	14	22	58+	15	18	47+
	17	17	22ca	18	02	12ca	18	17	21ca	(I) 18	19	36ca
	19	09	15+	28	16	10ca	(L) 20	18	45ca	22	09	08+
	25	06	45ca	25	12	07ca	25	19	18+	27	17	13ca
CH	1	08	24ca	2	04	51+	3	12	19ca	11	08	22+
	13	18	02+	14	03	35+	15	18	46+	17	08	38 ca
	17	17	20ca	18	02	15ca	18	17	16ca	(L) 18	19	36+
	(L) 19	09	20+	20	16	30+	(L) 20	18	37+	21	10	58ca
	(L) 22	09	18ca	25	06	46ca	25	19	22+	(L) 27	17	12+
	(L) 28	02	50+	30	11	04+						
AK	(L) 1	08	29ca	2	04	56+	3	12	16+	11	08	20ca
	(L) 13	18	21ca	14	23	01+	(L) 15	19	17ca	18	08	39ca
	19	19	32+	19	09	14+	(L) 20	16	53ca	(I) 20	18	46ca
	(L) 22	09	21+	25	12	01	25	19	19+	27	16	58ca
	28	02	43+	30	11	04+						
AP	1	08	24ca	2	04	24+	3	12	19ca	11	08	20ca
	(L) 13	18	18ca	(L) 14	03	44ca	(L) 14	17	06ca	15	18	45ca
	17	17	20+	18	17	17ca	(L) 18	19	36+	19	09	18+
	(L) 20	16	22ca	(L) 20	18	43ca	25	19	21			

Provisional Epicentres in South-West Pacific.

(excluding the New Zealand Region)
Continuation of List given in Bulletin P-134.

Date 1942.	Origin Time. G.M.T. h.	m.	Provisional Epicentre Lat. deg	Long. deg.	Q	h km.	Remarks.
Dec 17	01	08.3	58S	143E	B	-	-
22	04	14.6	16±S	174W	A		

LOCAL EARTHQUAKES (Wellington Δ = <10° ca.)

Particulars of the principal local shocks are tabulated below. The column headed "Q" is the accuracy of the epicentre determination. (See Bulletin P-108, pp1-2) "h" is the focal depth ('N"=Normal depth) and "M" is the instrumental magnitude (See Bulletin P-104, p3.)

Consecutive Number	Series Number	Title and Author	Extracted from.
99	S-24	Summary of New Zealand Earthquakes for the period 1903-1920 (R.C.Hayes)	N.Z.J.Sc.& Tech.Vol.16, no.6, June, 1935.
100	S-25	Shear Waves through the Earth's Core. (L. Bastings)	Proc. of the Royal Socie Series A,No.866,Mar.1935
101	S-26	Seismic Waves and Crustal Structure in New Zealand Region. (R.C.Hayes)	N.Z.J.Sc. & Tech. Vol.17 no.3, Dec.1935.
102	S-27	Seismology in New Zealand & Summaries for 1934 (Dominion Seismologist)	N.Z.Official Year-book, 1936.
103	S-28	Destructive Earthquakes in New Zealand,1835-1934. (L.Bastings)	N.Z.J.Sc.& Tech. Vol.17, no.1, July, 1935.
104	S-29	Earthquake Frequency in New Zealand. (R.C.Hayes)	N.Z.J.Sc. & Tech. Vol.16 No.6, June, 1935.
105	R-20	Annual Report of Dominion Astronomer and Seismologist for 1934.	Annual Report of Dept. of Sc. & Ind.Research,1934
106	S-30	Some Seismological Aspects of the Buller Earthquake: Part II - The P-waves in the Distant Hemisphere. (L.Bastings)	N.Z.J.Sc.&Tech.Vol.18, No.4,Sept.1936.
107	S-31	A New Phase in Deep-Focus Earthquakes. (R.C.Hayes)	N.Z.J. Sc. & Tech. Vol.1 No.3,Dec. 1936
108	S-32	A Subsoil Survey of Wellington City (L.Bastings)	Jour.N.Z.Inst.of Archite December,1936.
109	S-33	Normal and Deep Earthquakes in the South-West Pacific.(R.C.Hayes)	N.Z.Sc. & Tech. Vol.17, no.5,April, 1936.
110	S-34	Earthquakes and Atmospheric Pressure. (R.C.Hayes)	N.Z.J.Sc. & Tech. Vol.17, May, 1936.
111	S.35	The Seismicity of New Zealand Towns and Cities. (R.C.Hayes)	N.Z.J.Sc. & Tech. Vol.18, No.7, Dec. 1936.
112	R-21	Report of the Dominion Observatory for the Year 1935.	Annual Report of Dept. of Sc.& Ind.Res. 1935.36
113	S-36	On Near Earthquakes in the Vicinity of New Zealand. (K.E.Bullen)	N.Z.J.Sc. & Tech. Vol.18, no.6, November, 1936.(Out of Print)
114	S-37	Intensity Distribution in New Zealand Earthquakes. (R.C.Hayes)	N.Z.J.Sc. & Tech.Vol.18, no.6, Nov.1936.
115	A-51	International Longitude Determinations,1933 Oct.-Nov. (R.C. Hayes & I.L.Thomsen)	N.Z.J.Sc. & Tech. Vol.18 no.6, Nov.1936.
116	S-38	Earthquakes in New Zealand (1935)	N.Z.Official Year Book. 1937.

Department of Scientific & Industrial Research.

DOMINION OBSERVATORY, WELLINGTON. N.Z.

N E W Z E A L A N D S E I S M O L O G I C A L R E P O R T.

Provisional Bulletin No.P-140, October, 1943.

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DISTANT EARTHQUAKES. (Wellington Δ = >10°ca.)

Station abbreviations:- AK = Auckland, AP = Arapuni, CH = Christchurch, N = New Plymouth, TU = Tuai, W = Wellington.

Date 1943	Station	Phase	G.M.T. h.	m.	s.	Δ deg.	Remarks.
Oct. 3	CH	P	18	58	38	9.6	EPICENTRE: South-west of New Zealand.
		S	19	00	26		
	W	P	18	59	17	13ca	(Az = -2mm).
		S	19	01	49		
	N	P	18	59	42	14ca	
	TU	i	19	00	35		
		S?		03	16		
	K	S	19	00	19	9½	
	AK	S?	19	04	(00)		
	AP	S	19	03.5			
4	AK	P	10	44	40	24ca	EPICENTRE in South Coral Sea. Focal Depth, 120km. ca.
		S		48	47		
	TU	P	10	45	01	27ca	
		S		49	32		
	W	P	10	45	18	27ca	(Az = -4mm.)
		S		49	48		
	CH	P	10	45	39	27½	
		S		50	13		
	AP	S	10	49.0			
7	CH	P	07	47	29	22.5	
		S		51	30		
	W	P	07	47	55		(Az = -2mm).
		S		53	15		
	AK	P?	07	48	15		
		S		53	50ca		
21	AK	P	23	13	20ca		(Poorly defined; near edge of record). PROVISIONAL EPICENTRE: near 15°S, 162°E. FOCAL DEPTH 100km. ca.?.
		S		17	35		
	AP	P	23	12.6			
		S		18.1			
	W	P	23	13	56		
		S		18	38		
	CH	P	23	14	24	28.5	
		S		19	16		
23	CH	P	17	37	09	97ca	
		SKS		47	33		
	W	P	17	37	10		Focal Depth. 50 km.ca.
		SKS		47	40		
	AK	i	17	41	30		(Small).
		SKS		47	31		
24	AK	P	16	08	42		
		S		12	00		
	W	P	16	09	20		EPICENTRE: New Caledonia Region Focal Depth. 150 km.ca.
		S		13	18		
	CH	P	16	09	48	22.5	
		S		13	48		

Activity, chiefly of a minor nature, was recorded as follows :-

Station.		d.	h.	m.		d.	h.	m.		d.	h.	m.		d.	h.	m.
W.	(I)	1	11	31ca	(I)	4	04	33+	(I)	4	13	37+	(L)	4	14	18ca
	(e)	5	11	51ca	(L)	6	00	03ca		6	09	00+	(L)	6	15	27ca
		6	23	45ca	(e)	7	02	47+	(i)	7	08	39+	(e)	7	10	57ca
		11	06	29+	(L)	13	06	12+	(L)	13	14	57ca	(L)	14	06	27ca
		15	20	42+		16	00	35+	(e)	17	12	51ca		17	22	46+
		20	00	03+	(e)	22	02	00ca		22	04	13+	(L)	24	14	23ca
	(L)	24	19	07ca	(L)	25	00	06+		25	13	18+		25	20	41+
	(I)	27	06	50+	(e)	27	13	20+	(e)	27	14	20ca	(L)	27	16	52ca
	(e)	29	00	32ca	(e)	30	20	52ca								
CH.		1	11	32ca	(I)	4	04	31+	(L)	5	11	47+		6	00	00ca
	(L)	6	09	02+		6	15	23ca		7	08	37ca		7	10	42+
		8	10	42ca		13	06	10+		13	06	51ca		15	20	13+
		16	00	42+		17	12	52ca		17	22	50+		22	16	20ca
		25	20	49ca	(L)	27	06	50ca	(I)	27	16	50ca		28	12	18ca
AK	(i)	1	11	30+	(e)	3	00	16ca	(L)	4	04	35ca	(e)	4	13	37ca
	(e)	4	14	18ca	(e)	6	00	05+	(L)	6	06	45ca		6	09	01+
	(L)	6	15	30ca	(e)	7	08	41ca		7	10	45+		8	10	40+
		11	06	28+	(L)	14	06	24ca		15	20	41+		16	00	35+
	(e)	17	12	49+		17	22	49ca	(i)	19	09	19+		20	00	02+
	(e)	24	04	58ca	(L)	24	14	27ca		25	20	48+	(L)	27	06	49ca
	(i)	29	00	29+												
AP	(e)	1	11	30ca	(e)	4	04	33ca	(L)	6	09	04+	(e)	7	10	59ca
	(e)	13	14	58ca	(L)	14	06	20ca	(L)	15	20	47ca		16	00	40ca
		17	22	49+	(e)	20	00	04ca	(e)	27	16	52ca				

LOCAL EARTHQUAKES. (Wellington $\Delta = <10^{o}$ca).

Particulars of the principal local shocks are tabulated below. The column headed "E" is the accuracy of the epicentre determination (see Bulletin P108, pages 1-2), "h" is the focal depth ('N' = Normal Depth), and "M" is the instrumental magnitude (see Bulletin B.104, p3.).

No.	Date 1943	Origin Time G.M.T.		Provisional Epicentre Lat.	Long.	E	h Km.	M	Felt Area and Maximum Intensity. Modified Mercalli Scale (M-M).
		h.	m.	(deg.).	(deg.)				
171	Oct. 5	17	15.4	41.0°S	175.7°E	D	N	2½	Masterton (1).
172	5	17	36.0	43.2S	171.3E	D	25	3-3½	Lake Coleridge (V+.)
173	9	20	13.7	41.0S	176.1E	C		4	Masterton (111).
174	15	07	58.5ca	44.5S	168.5E	D		4ca	Jackson's Bay, Milford Sd., & Queenstown (111).
175	16	04	51.7	40.1S	175.2E	C	M	3½-4	Wanganui Region (111).
176	18	17	23.0	41.1S	175.8E	C		4ca	Masterton (11).
177	20	12	52.1	45.1S	167.8E	C	50ca	5½	Southern parts South Id. (V)
178	20	13	25ca	45S	168E	D			Jackson's Bay (111).
179	25	02	10.2	39.4S	175.6E	B	160ca	4	Hihitahi to Hunterville (V).
180	25	12	22.8	39.3S	175.6E	C	150ca	3	Taihape Region (111+).
181	28	10	40.1	40.8S	174.6E	C		3½	Wellington, Paraparaumu, (111).
182	29	17	34.5	39.4S	175.7E	B	150ca	3	Waiouru to Hunterville (V)

ACKNOWLEDGEMENTS.

The Dominion Observatory gratefully acknowledges receipt of the following Seismological Bulletins :-

Apia	1943	July - September (Preliminary).
Brisbane	1943	September.
Indian Stations	1941	January - March.
Kaara	1943	April - June (Preliminary).
Ottawa	1943	July.
Perth	1943	July -August.
U.S.C.G.S.	1941	August - November.

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Department of Scientific & Industrial Research.

DOMINION OBSERVATORY, WELLINGTON. N.Z.

N E W Z E A L A N D S E I S M O L O G I C A L R E P O R T.

Provisional Bulletin No.P-141, 1943, November.

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DISTANT EARTHQUAKES (Wellington Δ = ≥10°ca.)

Station abbreviations :- AK = Auckland, AP = Arapuni, CH = Christchurch, K = Kaimata, N = New Plymouth, TU = Tuai, W = Wellington.

Date 1943	Station.	Phase	G.M.T. h.	m.	s.	Δ deg.	Remarks.
Nov.2	CH	P	18	20	31	80	
		S		30	32		
	W	P	18	20	35	89ca	FOCAL DEPTH 60-70 km.
		pP			50		
		SKS		30	45		
	AK	P	18	20	56	87ca	(Small).
		S		31	25		
	AP	e	18	22ca			(Doubtful).
		S?		31.0			(May be SKS).
4	CH	P	06	57	46	8	
		S	07	07	46		
	W	P	06	58	00	90	(Az [illegible]). FOCAL DEPTH NORMAL.
		SKS	07	08	12		
	AK	[illegible]	07	08.7			(Very small & doubtful).
	AP	L	07	21ca			
6	AK	P	06	26	20	21ca	
		S		30	10		
	W	P	06	27	09	24ca	(Az = +5mm). FOCAL DEPTH 80-100km.
		pP			26		
		S		31	20		
	CH	P	06	27	44	23	
		S		31	54		
	AP	S	06	30.7			
6	AK	P	08	40	22	55ca	
		S		48	05		
	TU	P	08	40	43	55ca	
		S		48	23		
	AP	P?	08	40.5			(Small).
		S		48.3			(Prominent).
	N	P	08	40	31	53ca	
		S		47	57		
	W	P	08	40	36	52ca	(Az = -8mm).
		S		47	56ca		(Large amplitudes follow).
	CH	P	08	40	37	51	
		S		47	52		
	K	P	08	40	50ca		
		S?		47	45ca		
13	AK	P	18	40	09	[illegible]	(Large amplitude).
		S		51	47		(Poorly defined).
	AP	P	18	48.0		21ca	
		S		51.7			
	N	P	1	48	30	22½	
		S		52	29		
	TU	P	18	48	31	22ca	
		S		52	24		
	W	P	18	48	50	24ca	(Az = -5mm). FOCAL DEPTH 60-100 km
26	CH	P	21	37	01	75	
		S		46	35		
	W	P	21	37	10	83ca	(Az = +2mm).
		pP			45		FOCAL DEPTH 130-140km
		SKS		47	15ca		
	AK	P?	21	37ca			(Small & indefinite).
		S		46	45		(Sharp impulse).

For CH reading, see page 3.

Date 1943	Station	Phase	G.M.T. h.	m.	s.	△ deg.	Remarks.
Nov. 26 (ctd).	AP.	P?	21	36+			
26	W	PKP_1?	22	40	33	1.65ca	(Small). FOCAL DEPTH NORMAL (Prominent).
		PKP2			43		
		PPP		48	46		
		SS	23	06	20		
	CH	P	22	40	39	143ca	
		PKP		43	12		
		PP		45	47		
		SKS		51	17		
		SS	23	04	42		
	AK	PKP_2?	22	40	52	1.65ca	
		PP		44	15		
	AP	PP?	22	43+			
28	W	P	06	30	59	75ca	(Az = +3mm.)
	CH	P	06	31	18	65ca	
		S		39	48		
	AK	S	06	39	17		
	AP	P?	06	31.5ca			(Small & doubtful).
		S		40.5ca			

Other activity, chiefly of a minor nature, was recorded as follows :-

Station		d.	h.	m.		d.	h.	m.		d.	h.	m.		d.	h.	m.
W	(L)	1	09	40ca	(e)	1	09	55ca		1	10	14+		3	14	53+
	(L)	4	22	49ca		7	06	40+	(L)	8	06	37ca	(L)	8	22	50ca
	(L)	9	08	20ca		11	00	50+	(i)	12	02	48+	(i)	12	07	30+
	(L)	13	11	24ca	(e)	13	15	33ca		13	16	52+	(L)	15	15	59ca
	(L)	15	23	10ca		16	12	18+	(e)	18	18	38+		18	18	43+
		19	23	51+		20	07	12+		20	07	51+	(L)	20	19	34ca
	(i)	20	19	50+	(e)	22	00	46+		24	13	20+	(L)	28	17	57ca
		28	20	55ca		28	21	45+	(e)	29	11	22ca	(L)	29	20	20ca
	(L)	29	22	02ca												
CH		1	10	16+	(e?)	3	14	52		8	06	30ca	(L)	8	22	47+
		13	11	07+	(i)	13	15	29+		13	16	51+		15	15	58ca
		15	21	06ca	(e)	16	12	01+		16	17	04ca	(e)	18	18	26+
	(L)	19	23	55+	(e?)	20	07	15+	(e)	20	19	19+		22	00	48ca
		24	14	39+		28	17	56ca		28	21	50ca		29	20	00+
		29	21	57ca												
AK	(e)	1	09	40ca	(e)	1	09	55ca			10	10+		3	14	53+
		7	06	42+		11	00	57+	(e)	11	03	49ca	(e)	12	07	33ca
	(L)	13	11	16ca	(L)	13	15	34ca	(i)	13	16	57+	(L)	15	15	57+
	(L)	16	12	26ca	(e)	18	18	30ca		18	18	46+		19	23	51+
		20	07	12+	(L)	20	19	34ca	(L)	20	19	47ca	(L)	21	00	40ca
	(L)	22	00	54ca		24	13	31ca	(L)	28	17	56ca		28	21	45+
	(e)	29	20	02ca	(L)	29	22	02ca								
AP		1	09	50ca	(L)	1	10	16ca		3	18	22ca	(L)	8	06	35ca
	(L)	8	22	46ca	(L)	13	11	23ca	(L)	13	17	00+	(L)	16	12	22+
	(e)	18	18	32ca	(L)	18	18	48ca		19	23	52ca	(L)	20	19	34ca
		24	13	40+												

A C K N O W L E D G E M E N T S.

The Dominion Observatory gratefully acknowledges receipt of the following seismological Bulletins :-

APIA ..... 1943, July, Aug., Sept.
BRISBANE..... 1943, October.
SUVA..... 1943 July-Aug. (Prelim)
SYDNEY..... 1943, March & April.
RIVERVIEW..... 1943, Sept. - Oct. (Prelim.)
OTTAWA..... 1943 August.

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LOCAL EARTHQUAKES (Wellington △ = <16° ca).

Particulars of the principal local shocks are tabulated below. The column headed "Q" is the accuracy of the epicentre determination (See Bulletin P-108, pp 1-2). "h" is the focal depth, ("N"=Normal depth. and "M" is the instrumental magnitude (See Bulletin P-104)

No.	Date 1943	Origin Time (G.M.T.) h. m.	Provisional Epicentre Lat. (deg)	Long. (deg).	Q	h (km)	M	Felt Area & Maximum Intensity.
183	Nov.5	14 39.7	42.8S	171.6E	C	10ca	5	Greymouth to Arthur's Pass (VI).
184	" 5	18 45.0	38.7S	176.0E	B	125ca	4½	Dannevirke (I).
185	" 5	18 59.0	40.4S	177.2E	C	25ca	4½-5	Southern parts North Island (VI).
186	" 6	06 46.2	41.6S	174.9E	C	N	3-3½	Wellington (III).
187	" 7	05 35.9	39.3S	176.7E	C	N?	3-3½	
188	" 12	04 58.3	41.0S	172.5E	B	N	3½	Farewell Spit, Takaka(III)(
189	" 12	05 25ca	41.0S	172.5E	D	N	-	Takaka (II?).
190	" 12	12 24.2	41.0S	176.0E	C		3	Masterton (III).
191	" 14	16 46.8	41.4S	174.6E	D		3	Wellington (II?).
192	" 16	14 28.4	42.2S	175.0E	D		3½	
193	" 18	00 03.3	38.8S	175.4E	B		3½-4	Taumarunui (III).
194	" 20	05 30.9	45S	167E	D		4½	Milford Sound (IV).
195	" 20	17 01.8	39.2S	175.0E	B	12eca	3½-4	
196	" 22	11 50.6	39.4S	174.9E	B	100ca	3-3½	
197	" 24	06 47.3	45.4S	167.1E	C	50-70	5½-6	South-west parts of South Island (VI).
198	" 24	07 13½	45.2S	167.0E	D		4-4½	Puysegur Point (II-III).
199	" 24	14 28.5	39.0S	175.9E	B	125ca	3½	
200	" 28	04 37.1	40.2S	174.3E	B	80	4	New Plymouth and Wellington (I - II).
201	" 28	05 35.2	41.0S	172.3E	C	N	3½-4	Upper Takaka (III).

CH and W readings, earthquake 13th November,

Date 1943	Station	Phase	G.M.T. h.	m.	s.	△ deg.	Remarks.
Nov.13	W	S	18	53	02		
	CH	P	18	49	10	21	