

double

BULLETIN E.24.

DEPARTMENT OF SCIENTIFIC & INDUSTRIAL RESEARCH

SEISMOLOGICAL REPORTS-NEW ZEALAND & FIJI
1930, JANUARY, FEBRUARY, MARCH.

DOMINION OBSERVATORY, KELBURN, WELLINGTON, NEW ZEALAND

Lat. $41^{\circ} 17'S$: Long. $174^{\circ} 46'E$: Height above M.S.L. 401.5 ft.

INSTRUMENTS:- Two Milne-Shaw Horizontal Seismographs, Numbers 13
and 36. Magnetic Damping.

CONSTANTS:-

Component	Date of Determination	Free Period (T)	Damping	Magnification	Sensitivity
N	1929 Dec.30	10.3s	1:20	150	20.41
E	1929 Dec.23	9.8s	1:20	150	26.22

Date 1930	Phase	G. M. T.			Period sec.	Amplitude		Distance degrees	Remarks
		h	m	s		AN	AE		
Jan.1	iP N	20	46	51				2.0	m m s O=20 46 20
	iP E		46	52					R-F 6 at Takaka.
	iS NE		47	15					
Jan.1	i NE	21	24	32					R-F 6 at Murchison.
Jan.2	i E	1	37	45					Local: small
Jan.2	i E	3	22	58					Local: small
Jan.3	i E	2	52	33					Local: small
Jan.3	i N	9	38	43					R-F 4 at Takaka
	i E		38	39					Local
Jan.3	iP E	12	16	33				0.55	O=12h16m25s
	iS E		16	40					Disturbed by microseisms
Jan.5	i N	1	43	3					
	eL NE	2	10		19	s	s		
Jan.5	L	16	50		13	s	s		
Jan.5	i NE	19	15	45					
	L N		35		20	2			
Jan.5	i NE	23	59	43					
Jan.6	i E	23	35					0.8	Local: small
Jan.6	i E	23	58	28					No minute marks
	iS(?)NE	24	3	0					
	iL E		5	34					
	M E		11		10		17		
Jan.6	i E	4	9	48					
Jan.9	iP E	21	31	43				1.55	Local: small
	iS NE		32	3					O=21h31m20s
Jan.11	i E	12	22	10					R-F 6 at Takaka.
Jan.13	i E	7	22	50					Local: small
Jan.13	iP E	22	19	40				1.5	Local: small
	iS NE		20	0					O=22h19m6s
Jan.14	L NE	6	31		18	s	s		R-F 4 at Raetihi
Jan.14	i NE	20	30	30					
Jan.14	eP N	22	7	5	5			34.5	R-F 3 at Reefton
	iPR N		44						O=21h59m56s
	iS N		12	44	14				R-F 4 at Apia
	SR ₁		15	30	20	96			
	iL		17	55	12	26			
	M N		18	0	12	37			
	M E		18		12		23		
Jan.16	i NE	11	55	45					
Jan.17	L NE	11	50		17	s	s		
Jan.17	L NE	17	40		20	s	s		
Jan.17	P N	21	50	24				1.0	
	iS N		50	37					

Date 1930	Phase	G. M. T			Period sec.	Amplitude		Distance degrees	Remarks
		h.	m.	s.		AN	AE		
Feb.18	L	6	15						Suva Δ 7°?
Feb.21		22	12						Local, very small
Feb.24		20	13						" " "
Feb.27		6	13						" " "
Feb.27		10,	20						Traces.
Feb.28	e	0	36	58					
	M		38	10	2		13		Not clear
Feb.28	e	18	9	27					Suva Δ = 9°(not clear)
	e		11	45					Probably Tonga.
	M				16	26			
Mar.1		1	30						Small movements.
Mar.4		6	58						Local, very small
Mar.4		14	18						" " "
Mar.6	e ₁	15	38±						e ₂ M of small local shock, which confuses record before L.
	e ₂		39	20					Suva Δ = 21°2.
	e ₃		40	16					Apia Δ = 19°5.
	L		40	55					Riverview Δ = 29.7
	M		42		16		202		Adelaide Δ = 31°
	M		43		14	102			Perth Δ = 51°3.
									Probably two shocks.
									(1)O=15h29m34s, E=33S, 173 W. (2)O=15h34m32s, E=40S, 180.
Mar.7		22	37						Local, small: not clear
Mar.8		4	40						Small movements, L waves
Mar.10		8	2						Local, very small.
Mar.10	e	20	24						
	M		26		12		35		
Mar.11		11	50						Local, very small.
Mar.11		19	45						Small movements: L waves
Mar.11		22	22						Tremors.
Mar.12	e	5	40						
	M		44		14		18		
Mar.12		19	40						Small movements: L waves
Mar.14		3	35						Imperfect Suva record
Mar.14		7	3						Small movements: L waves
									Small movements: L waves
									Small movements: L waves
Mar.14		15	42						Local, very small.
Mar.16		12	25						" " "
Mar.17		9	20						Small movements: L waves
Mar.18	e	0	57						
	M		59		16		18		
Mar.18		16	28						Local, very small
Mar.20	e	12	49	20			10?		Suva Δ = 16° ±
	L		51	50					
	M		52	0	16		18		
Mar.25		11	5						Small movements: L waves
Mar.25		11	35						" " " "
									Small movements: L waves
Mar.26	P	7	21	32			59		Small movements: L waves
	PR ₁		24	16					Suva shows small nearby shock
	S		29	38					O=7h11m27s.
	L		39±						Suva record confused
	M ₁		42		24		291		L waves rather confused
	M ₁		42		24	412			
	M ₂		47		18	214			
	M ₃		53		16		164		
Mar.26	S	11	49	20					Not clear: aftershock
	L	12	2						from above quake.
Mar.26		12	36						Local, small
Mar.30		9	30						E waves from same epicentre as Mar, 26th

Date	Phase	G. M. T.			Period sec.	Amplitude		Distance degrees	Remarks
		h	m	s		AN	AE		
Mar.30	e	15	30						From epicentre as on Mar.26th.
	S		36	50					
	L		49						
	M E		53		14	22			
Mar.31		12	17						Local, small. " "
Mar.31		14	4						

SUVA, FIJI

1930 JANUARY

Lat.18° 9'S; Long. 178° 26'E; Height above sea-level 10ft.
INSTRUMENTS: Milne Twinpbcorn Horizontal Seismograph. Undamped
CONSTANTS:-

Component	Period (T)	Magnification
N	10.6 secs.	6
E	8.0 "	6

Date 1930	Phase	G. M. T.			Period sec.	Amplitude		Distance degrees	Remarks
		h.	m.			AN	AE		
Jan.4	e E	6	59.	4					
Jan.5	e NE	1	30					Tremors	
Jan.5	e N	16	38.5						
	i N		41.3						
	M		42		0.6				
Jan.7	NE	0						Tremors	
Jan.11	NE	7	50					Tremors.	
Jan.16	e N	11	50.0						
	e N		52.3						
	M E		52						
Jan.18	e E	3	8.0						
	iS E		10.0						
	M N		11		1.3				
Jan.18	P N	7	9.7				25	O=7h 4.0m ΔT obtained by comparison with Wellington time of (0)	
	FR N		11.0						
	IS N		14.2						
	iSR ₁ N		15.2						
	M ₁		17		1.5				
	M ₂		21		1.3				
Jan.20	e P?N	7	16.6						
	e N		20.5						
Jan.21	N	18	30					Tremors	
Jan.24	e N	2.	16.6						
	e N		19.6						
Jan.27	NE	16	37					Tremors.	
Jan.28	iP N	6	22.8				17		
	iS N		26.0						

SGD. C.E. ADAMS
Government Astronomer &
Seismologist

NOTE: There were not sufficient data from the Suva records for the months of February and March to warrant a separate report. The Suva data for those months are given in the "Remarks" column of the Wellington report.

MD

2/6/31

DEPARTMENT OF SCIENTIFIC & INDUSTRIAL RESEARCH

SEISMOLOGICAL REPORTS - NEW ZEALAND
AND FIJI
1930 APRIL, MAY, JUNE

DOMINION OBSERVATORY, KELBURN, WELLINGTON, N.Z.

Lat. $41^{\circ} 17'S$: Long $174^{\circ} 46'E$: Height above M.S.L. 401.5 ft.

INSTRUMENTS: Milne- Shaw Horizontal Seismographs Numbers 13 and 36 Magnetic Damping.

CONSTANTS:

Component	Date of Determination	Period (T)	Damping	Magnification	Sensitivity
N	1929 Dec. 30	10.3	20:1	150	20.41
N	1929 Dec. 22	9.8	20:1	150	26.22

SUVA, FIJI: Lat. $18^{\circ} 9'S$: Long. $178^{\circ} 26'E$: Height above M.S.L. 10 ft.
Instruments:- Milne Twin-boom Horizontal Seismograph: Undamped.
Periods:- N component 10.6 secs: E component 8.0 secs.
Magnification of both components = 6.

NOTE: The data obtained from the Suva records are referred to in the "remarks" column of this report.

Date	Phase	Greenwich Time			Period sec	AN	AE	Dist. deg.	Remarks
		h	m	s					
1930 April									
2		7	58					Small movements	
2	M	9	11	2	10			Local	
2		21	3					Local, very small	
3		1	21					Local, very small	
4	P	2	12	5					
	M		13	30	2	115	190	Local, Felt strongly in both Islands.	
4	eS	9	37						
	eL	9	42					Small and difficult in vicinity of Solomon Islands	
6		8	10					Small movements	
10		7	58					Local, very small	
11		0	27					Local, very small	
		0	42					-do-	
		2	11					-do-	
13		5						Traces	
15		11	15					Weak record of quake in vicinity of Philippine Is.	
18		0	13					Local, small	
20		1	50					Small movements	
20		3	1					Local, very small	

Date	Phase	Greenwich Time			Period s	AN	AE	Dist. deg.	Remarks
		h	m	s					
1930 April 20		16	32						
21	P S	12	3 13	7 19				Weak record of distant quake.	
	L M	12	34 43				81	O. = 11h 50m 42s In South Atlantic.	
23	PR 1 S L	22	5 12	38 20	20	25	17		
25	P S M	11	42 43 46	0 3					
26		8	12		16	18	11	5	
26	S	11	49					Local, very small.	
26	e L M M W 1	16 16 17 17 18	41 49 2 6 9 45	52 20	22 20	33	16	90	
27		13	10					Aleutian Islands.	
27	P S L M M	14	39 49 7 10 12	2 17				Local	
27		15	7		20	18		82	
27		15	10		18			O = 14h 36m 33s In Indian Ocean south of Mauritius	
27		22					9		
28		0	18					Small movements.	
28		19	32					Local, very small.	
30	P S	16	11 14	4 54				Weak record of distant quake.	
							21	O = 16h 6m 10s. Distance from Suva 6 degrees. Wellington) 18°S Suva) 174°W.	
May 1	i	16 10	21 30	52				Becomes confused here, more than one quake. L waves, small. Suva seismogram shows two quakes at this time. No phases.	
2	S L	1 1	52 55					Weak record of quake at sea west of Fiji, probably same epicentre as next quake.	
2	P S M L	6 6 6	7 12 18 14	26 0	16	34	28	26	
3	P S L M	12 12 12	29 35 40 44	41 45				38	
3	P S L M	15 15 15 15	30 38 40 43	24 30	14	7		O. = 12h 22m 3s. 18 deg. from Suva. In vicinity of Solomon Islands.	
3								In time mark. 18 deg. from Suva. Apparently from same epicentre as the previous quake.	
5	i S SR 1 SR 2 L M M	14 14 15 20 14 14 14	6 10 15 20 31 40 45	22 5 40 27				91	
					20 20	280 600		O. = 14h 35m 41s. Burma.	

Date	Phase	Greenwich Time			Period	AN	AE	Dist. Deg.	Remarks.
		h	m	s					
May 6	PR	16	25						
	W 4	22	56	10			135	Persia. O = 22h 34m 0s.	
	?	23	19						
	L	23	43						
7	M	0	0	22	80			Disturbed by changing paper.	
	M	0	4	22		46			
8		0	55					Small movements.	
8		3	30					Local, very small.	
8		13	25					Small movements. shown also by Suva Seismogram.	
8	P	13	39	30					
	S		43	11			24	Epicentre near New Caledonia.	
	M	13	44		14	70	75	(Wellington, Apia, and Suva).	
12	i	2	42	0					
12	i	2	45	35				small and not clear.	
12	eP	10	12	15				local, small	
	PR 1	0	16	5			50	Weak record of distant quake, apparently near Caroline Is.	
	S	0	19	42					
	L	0	27						
18	P	12	50	57					
	S			18					
	M			20	2	40	22	Felt in Wellington Traces of L waves very small.	
19		3	30						
20		4	16						
20	eS	8	0	40			48	Local, very small. O = 7h 42m 40s in North Pacific.	
	L	8	8						
20	S	11	22					Local, very small.	
20	L	11	38	39			91	O = 11h 14m 15s Aleutian Is.	
	M	11	59	0					
	M	12	2		25				
26	M	12	4		23	40	30		
	P	3	35	0					
	S		35	22					
26	M	3	35	25	2	45	30	Felt in Wellington.	
27		5	35		2		25	Local	
28		1	46					Local, very small	
28		0	30					Small movements.	
31	M	17	43		2		26		
June 1		22	16					Local, small.	
June 1		2	20					Small movements.	
1	P	3	51	9			13		
	S		53	37					
	M	3	55				9		
1	P	13	10	21			24.5	O = 13h 4m 48s	
	S		14	42					
	L		16	50					
	M	13	26		6		100	New Hebrides.	
	M	13	29						
3		18	16			120			
4	e	10	9					Local, very small	
	e	10	12					P robably S.	
	L	10	19					Weak record of quake in Molucca Is.	
5		10	40					Local, very small	
5	P	11	48	0			24	O = 11h 42m 32s	
	S		52	16					
	M	11	54		16		175	Distance from Suva 5.5 deg. e may be S.	
8	e	17	58					Weak record of quake in vicinity of Solomon Is.	
	L	18	1						
11	P	0	57	27			41.5	O = 0h 49m 20s 68, 144 E.	
	S	1	3	48				M waves confused.	
	L	1	7						

Date	Phase	Greenwich Time			Period	AN	AE	Dist. deg.	Remarks.
		h	m	s					
1930 June									
12		15						Traces of remote quake, shown on Suva Record, but no phases.	
13		1	47					Traces of L waves, from quake in North Pacific.	
14		7	50					Traces of remote quake, shown on Suva record, but no phases.	
14		17	30					Local, very small	
15		7	50					Traces of distant quake shown on Suva record, but very small.	
15	e	21	23	47				46? e is probably S. O = 21h 8m 19s. In South Pacific	
	L	21	30	50					
15		23	21					Local, small.	
19	e	13	48					Weak records of two quakes in Dutch East Indies.	
	e	14	20						
21		20	40					Obscured by large micros. Probably small nearby quake.	
23		7	55					Local, small.	
23	e	19	43					At sea, north of Solomon Is.	
	S	19	48	26					
	e	19	51	42					
	L	19	54						
	M	19	56	20	22	20			
25	e	10	55					Very small. Epicentre off the coast of Peru.	
	M	11	6	18	6	8			
25		19	59					Local, very small.	
25	S	21	45	45					
	L	22	2						
	M	22	5	24		35			
	M	22	6	24	10		91	16 S, 79 W. (U.S.C. & G.S.)	
26		19	42					Local, very small.	
30		13						Small movements.	

BULLETIN E.25

DEPARTMENT OF SCIENTIFIC & INDUSTRIAL RESEARCH.

SEISMOLOGICAL REPORT - NEW ZEALAND AND FIJI.

JULY-DECEMBER, 1930.

DOMINION OBSERVATORY, KELBURN, WELLINGTON, NEW ZEALAND.

Lat.41°17'S: Long.174°46'E: Height above M.S.L.401.5 ft.

INSTRUMENTS: Milne-Shaw Horizontal Seismographs, Numbers 13 and 36. Magnetic Damping.
* Galitzin-Wilip Vertical Seismograph, photo-galvanometric registration.

CONSTANTS:

Component	Date of Determination	Galvanometer Free Period	Pendulum Free Period	Damping	Ak/πL
Milne-Shaw (N)	1930 Oct. 3	-	9.8 sec.	20 : 1	-
Milne-Shaw (E)	1930 Sept.29	-	9.8 "	20 : 1	-
Galitzin-Wilip (Z)	1930 Nov.11	10.70 sec.	10.33 "	1.72: 1	168.4

SUVA, FIJI :- Lat.18°9'S: Long.178°26'E: Height above M/S/L.10 ft.
Milne Twin-boom Horizontal Seismograph. Undamped.
* Installed 1930 October 15th. For notation see "Modern Seismology" by G.W.Walker, published by Longmans, Green & Co.London, 1913.

OBSERVERS:

R.C. Hayes, F.R. Met.Soc.
C.J. Westland, F.R.A.S.
C.E. Adams.

DIRECTOR:

DATE	PHASE	GREENWICH TIME	PERIOD	AN	AE	DIST.	
		h m s	s			deg.	
1930 July 1		14 38		M	M		Local, very small.
2		20 18					Local, very small.
2	PR 1 (S)	21 21 32				102	
	L	21 28 14	48				0.21h 3m 28s.
	M	21 49 30	34	115			Assam.
	M	21 55	32		45		Remarkably long periods
		21 59					Small movements are recorded as late as 3d 0h.
3	e	9 28					Small. Suva record shows quake, dist.probably 2 deg, 9h 22m approx.
3	e	17 57					Also on Suva record no phases.
5	M	4 59					Three local shocks, all felt in Wellington.
	M	5 19					
	M	17 0					
5	e	18 4 20					Weak record of distant quake, apparently at sea north of New Guinea.
	S	18 10 58					
	L	18 19					
7		14 23					Traces only in Guatemala.
9		18 20					Local, small.
13	e	1 27					Phases can not be identified. According to La Plata, felt in Peru.
	e	1 32					
	e	1 44					
	e	1 52					0. 1h 12m 6s.

(S) = Gutenberg's S_cP_cS see I.S.S. 1923. Jan. Feb. March P.2

DATE	PHASE	GREENWICH TIME			PERIOD	AN.	AE.	DIST.	
		h	m	s					
1930 July 13	L	20	10			M	M		Faint trace of quake in Kan Su, China. O. 19h 27m.
14	M	4	31						Local, Felt in Wellington, 2RF.
14	S	23	5	20				95	Movements small, and not easily timed.
	e	23	14						Acc.to Jesuit,S.A.
	L	23	29		26	35	50		13 N, 90 W.
	M	23	30						O. 22h 40m 19s.
15	e	14	51						Suva record shows near-
	F	15	30						by quakes at 14h 44m and 15h 2m. The second one is the larger, and is possibly 4 deg. dist. from Suva.
22	S	19	48	45				89	Kuril Islands.
			56	36					Acc.to Jesuit,S.A.
	L	20	4	17					46.5 N. 152.5 E.
	M	20	13	30	22	12			O. 19h 25m 59s.
23	e	1	33						L waves from quake in Italy.
	F	2	15						O. Oh 8m 44s.
23		12	7						Small movements
25	Pg	9	10	9					
	Sg	9	10	34					
	M	9	10	45	2	125	150		Felt in Wellington 3 RF.
25		10	19						
		13	14						
26		13	15						Local shocks, all small
		5	30						
26	e	13	6	2					
		13	6	40	2	20	45		Felt in Wellington 2 RF
27		9	49						Local, small.
28		18	6						Local, small.
2	e	16	14					35	O. 16h 6m 0s
	S	16	18	50					
	L	16	21	30					
	M	16	23		18	40			In South Pacific.
	M	16	28		10		18		Suva. e 16h 18m.
2	L	22	0						S 16 21
3		13	10						L 16 28
4		15	30						(clock error not known, Shown also on Suva seismogram.
7		2	35						Local, very small.
7		5	35						Small movements.
7		9	50						Local, very small.
9		14	19		2	14	10		Small movements.
10		0	0						Small movements.

DATE	PHASE	GREENWICH TIME			PERIOD	AN	AE	DIST. deg.	
		h	m	s					
1930									
11	P S M	8	45	37		11	11	8	Not reported felt in New Zealand.
			47	17					
			47	36	9	18	24		
12		7	30						Small movements.
13		4	55						Small movements.
13	M	10	54		2	20	25		Felt in Wellington 2 RF
15		18	0						Small movements.
18		8	50						Small movements.
18	P PR 1 S L L M M	10	5	55				83	0. 9h 53m 18s In South Atlantic.
			9	16					
			16	18					
		10	29		46				Acc. to U.S.C.G.S.
		10	33		28	100			54 S. 31 W.
		10	34		26				
		10	36				45		
18		23	34						Local, very small.
19	P S L M M	1	10	44				6	Reported felt in Bay of Plenty district.
			11	55					
		1	12	6					
		1	13	10	10	45			White Island obsd. to be active.
		1	13	50	10	35			
19		16	31						Small movements.
19		16	53						Small movements.
20		4	43						Looks like repetition of quake at 19d 1h, but small and not clear
20		20	8						Local, small
20	P S e L L N L E	21	6	34				80	In Formosa.
			16	25					0. 20h 54m 5s
		21	22						computed from data in
		21	29						Taihoku bulletin.
		21	30						
21	Pg Sg M	17	14	0					
				52					
		17	14	58	2	60	70		Felt in Wellington 3RF.
23		12	15						Small movements
24	e e L M	9	17	18					Not clear. The epicentre is probably at sea north of New Guinea.
			21	43					Not recorded at Suva
		9	27		20	30	25		
		9	33						
25	M	3	58		2	15	20		Local, not reported felt.
27	e S L M	14	51	0				32	In vicinity of New Hebrides.
		14	55	25					0. 14h 42m 54s. Suva.
		14	59	15	16	18			P 14h 46.5m =
		15	0						S 14h 48.8m
									L 14h 49.5m
									dist. 12 deg. (clock error not known)

DATE	PHASE	GREENWICH TIME			PERIOD	AN	AE	DIST.	
		h	m	s					
1970 Sept. 22	P	3	1	22				deg. 9.3	
	S		3	12					Aftershock.
	M	3	5		5	18	20		Obscured by end of previous quake
22	P	11	36	2				9.2	Another Aftershock
	S		37	51					
	M	11	39		5		3		
22	P	12	58	27				9.1	Another Aftershock
	S	13	0	15					
22	P	13	53	36					Not clear, probably another Aftershock
	S	13	55	20					
22		14	58						Small movements.
23	e	5	31	37					
	M	5	33	10	2	45	55		Local, not reported felt.
23	e	7	7	12					
	M	7	12		12	12	15		
23		11	20						Small movements.
24	e	12	27						Weak record of distant quake, confused by local shock at 12h 45m
	e	12	35						
	L	12	48						
	M	12	53						
24		21	14						Local, small.
25		12	20						Small movements
25	eP	18	8	14				6.7	0.18h 6m 32s
	S		9	35					dist. from Suva
	M	18	10	30	8	130	130		17 deg.
	M	18	26		8	160	110		Wellington
									Suva 35S
									Riverview 179 E
26		8	25						Local, small
26		19	46						Small, nearby shock
26		21	50						Small movements.
26		23	23						Local, small.
30	e	21	33	0				45	0. 21h 20m 28s
	S		35	43					
	L	21	41						Dist. from Suva 34 deg.
	M	21	45						At sea, north of New Guinea.
									Acc. to Manila, 2.5 S. 148E.
Oct. 2		1	12						Traces, possibly L waves from quake in vicinity Caroline Is.
2		7	13						0. 0h 42m.
3	e	18	26						Small movements
	L	18	40						
	M	18	43		16	4	7		Acc. to Batavia, In New Guinea.
5	P	18	41	37				21	0 18h 36m 44s
	S		45	27					Suva record. P 18h 39.0m

DATE	PHASE	GREENWICH TIME			PERIOD	AN	AE	DIST. deg.	
		h	m	s					
1930 Oct. 5	L M	47	40		s	M	M		
		48	30	15		26	30		S 18h 40.8m Clock error L 18h41.0m not known d 9 deg.
6		3							Many small movements about these times. Local
		5							
7	M	7	13	2		16	23		
8	P S L M M	10	25	26				24.4	O. 10h 19m 54s Suva. P.10h 21.8m S.10h 22.8m Wellington Sydney Suva. 17 S. 176 E
		10	32	30	20	350	370		
		10	37	16		215	250		
8	e M	19	10						Aftershock. Suva. P.19h7.0m S.19h8.0m
		19	20						
9		1	23						Clock error not known. Local, small.
10		8	13						Local, small.
10		10	3						Local, small.
10	Pg Sg M	12	40	17					In minute mark.
			40	37					
		12	40	45	2	46	35		Felt in Wellington, 2 R.F.
10		15	44						Local, very small.
11		5	15						Local, very small.
11		16	36						Small movements
14	e M	15	13						Small nearby quake.
		15	19	8		5	2		
16	P S L	20	51	51				26	O. 20h 46m 1s. At sea between Fiji and New Hebrides. Suva. P.20h 47.3m S. 48.2m L. 48.4m. Clock error not known
			56	27					
			59	30					
16	L	22	35						Small. Suva shows this as a small nearby shock, probably from same epicentre as the previous one.
Records from Galitzin Vertical Seismograph available as from this date.									
17	PZ SE L	8	59	9				81	O.8h 46m 55s Acc. to U.S.C.G.S. 33 S, 72 W. S is unusually large on S, but amplitudes diminish rapidly after L, and there are no conspicuous maxima.
		9	9	28	9		11		
		9	26						
17	PZ SZ	12	38	44				36	Milne-Shaw records very small
		12	45	15					
22	PZ e S L	18	13	48				45	e may be PR 1
		18	15	40					
		18	20	0					
		18	27						

DATE	PHASE	GREENWICH TIME			PERIOD	AN	AE	AZ	DIST. deg.	
		h	m	s						
1930 Oct. 23		8	20							Small movements, Shown on Suva as local or nearby quake, 8h 11m approx.
23	PZ SZ L M M	9 1 50 9 7 27 9 10 9 11 9 12		16 16	115	105		34		Probably at sea between New Hebrides & Solomon Is Suva P. 8h 55m S. 8h 58m clock error not known.
23		11 17								Local, small.
24	PZ PR 1 S SR 1 L M	20 25 26 27 14 20 34 25 20 39 20 42 20 49 20 53		20	120	90		65		O. 20h 15m 1s. Acc. to U.S.C.G.S. 18N, 145E. Suva. P. 20h 23.0m 20h 29.7m 20h 37.0m Clock error not known.
27	e L	12 36 12 47								Weak record of quake at sea N E of Solomon Is. Suva. P 12h 33.0 m S 12h 36.7 m L 12h 38m Clock error not known.
27	e L	14 15 40 14 27								Doubtful Shown also on Suva, no phases.
28	PZ PR 1 S L M	21 20 56 23 42 21 29 48 21 45 21 48		18	22	25		67		O. 21h 9m 58s. Repetition of quake, 24d 20h.
29	Pg Sg M	54 33 55 8 55 12		2	105	115				Felt in Wellington, 3RF.
31	PZ S L M	10 30 31 35 43 10 38 10 43		15	55	45		31		O. 10h 23m 53s. In vicinity of Solomon Is. Shown clearly on Suva, but phases not recognisable
31	eS L	16 17 30 16 21								These are probably after-shocks from same epicentre as the last, but too small to be measured with any certainty. Shown also on Suva record, there is also a small quake here at 18 11.
31	eP eS L	18 41 18 46 18 48								Small movements, shown also on Suva record.
Nov. 1		2. 9								
1	e e M M	12 44 12 51 12 53 12 53 17 35		11	9	6		5		Suva. e 12h 37m M 12h 38.5m Clock error not known. Small movements on Z.
3	PZ S L M M	18 44 51 51 14 18 57 18 59 19 0		16	7	11		42		O. 18h 36m 40s Suva. e 18h 44m e 18h 50m M 19h 3m

DATE	PHASE	GREENWICH TIME			PERIOD	AN	AE	AZ	DIST.	
		h	m	s						
1930 Nov.4		13	48							Small movements.
8	PZ	3	32	15				57.5		0. 3h 22m 9s
	S	3	40	12						
	L	3	49							
	M	4	2		16		9	3		Acc.to Batavia, 10 S, 121.5 E
9	Pg	6	2	14						
	Sg		2	28						
	M		2	30	2	155	115	130		Felt at Takaka, 8 RF.
9		6	23							Local, small.
9		9	11							Local, small.
9	PZ	19	18	10				57		0 = 19h 8m 18s
	S	19	26	5						
	SR.1	19	30							
	L	19	33							
	M	19	40		18	140				Acc.to Strasbourg. 1 S, 129 E.
	M	19	44		18		200			
	M	19	45		18			130		
	M	19	50		16		190			Small movements continue until 22 h.
10		9								Small movements.
10	PZ	13	53	9				50		0 = 13h 44m 3s
	S	14	0	19						
	L	14	10							
	M	14	14		20	130				Acc.to Manila. 2N, 145 E.
	M	14	19		18		165	70		
11		18	2							Local, small.
11	eP	20	5							Weak record of remote quake.
	L	20	14							Suva P 20h 0.7m S 20h 3.5m L 20h 4.5m
12		10	53							Clock error not known Local, very small
13	P	23	15	31				61		0 = 23h 5m 12s
	L	23	35							Dutch East Indies.
	M	23	41		18	11	16	7		
14		10	47							Local, small.
14		19	23							Local, small.
15		1	33							Local, small.
15	Pg	2	55	37						
	Sg		56	8						
	M	2	56	12	2	23	33	26		
16		7	5							
16		11	25							Small movements. Weak traces of distant quake, found also on Suva record
16	P	13	26	20						
	S		26	35						
	M	13	26	38	2	50	90	27		
17	PZ	12	11	27				33		0 = 12h 4m 31s
	S	12	16	55						Suva. e 12 h 10.5 m
	L	12	20	40						L 12 h 17 m
	M	12	26	30	20	24	36	23		Clock error not known

DATE	PHASE	GREENWICH TIME			PERIOD	AN	AE	AZ	DIST.
		h	m	s					
1930									
Nov. 17	P S M	17	7	0		<i>M</i>	<i>M</i>	<i>M</i>	deg.
		17	7	21					
		17	7	25	2	240	290	220	Felt at Takaka, 7 RM
17		17	27						Local, small
20		19	39						Local, small.
21		1	49						Local, small.
21		3	23						Weak traces of a remote quake, found also on Suva record.
22	PZ SZ M	14	2	25					9.4 0 = 14h 0m 3s. confused.
		14	4	16					
		14	6	40					
22	e e	21	53	20					
		21	57						Probably repetition of previous quake, small.
23	PZ S L M	1	33	10					7.5
		1	34	42					
		1	35						
		1	36		14	14	8		
24		1	16						Small movements.
24	e e L M	2	38						Phases not recognisable. Suva record shows two quakes. M 1.2h 34m M 2.3h 1m
		2	54						
		2	57						
		3	3		16	24	20	15	
24		14	11						Small movements.
25	PZ PR 1 S SR 1 L M	19	15	26					81 Destructive quake in Japan. O. 19h 2m 20s Acc. to U.S.C.G.S. 35.1 N, 138.8 E.
		19	18	35					
		19	25	38					
		19	31	14					
		19	42						
		19	46		24	75	60	55	
Suva Record.	e PR 1 S L M M	19	12.3						62 Clock error not known. e can not be P, but the other phases are probably correctly identified
		19	16.1						
		19	22.2						
		19	34						
		19	40						
		19	45						
Wellington Record resumed.									
26		1	0						Small movements.
26		5							Small movements, found also on Suva record.
28	S L M	7	57	25					94 Off coast of Mexico. O 7h 32m 25s Acc. to U.S.C.G.S. 18N Local small. 105W
		8	16	0					
		8	21		20	10	16	9	
30		18	2						Small movements, found also on Suva Record.
30		21	30						
30	S L M	21	41	48					P, if recorded, would be obscured by small movements noted above.
		22	15						
		22	22		20	3	8	5	O. 21h 30m 20s

DATE	PHASE	GREENWICH TIME			PERIOD	AN	AE	AZ	DIST.	
		h	m	s						
1930						M	M	M		
Dec. 2		7	54							Acc to Jesuit S.A. repetition from epicentre of 28d 7h
2	M	19	8	2	12	20	6			L waves of distant quake, very small.
2		21	7							Local
3.	e	19	5	0						L waves of distant quake, very small.
	PR 1		8	46						Acc to Strasbourgh. 18 N, 96.5 E. 0. 18h 51m 32s.
	S	19	15	33						
	SR 1		22	55						
	L	19	33	50						
	M	19	51		20	60	115			
	M	19	52				65			
6		7	51							L waves of distant quake very small.
8	P	17	25	55						O. 17h 22m 20s.
	S		28	45					14.7	Shown clearly on Suva record, but phases not recognisable
	L		29	30						
	M	17	31		14	73	125	50		
	M	17	33		12			45		
9		0	32							Small movements. Found also on Suva record, but disturbed by changing paper
12	eP	9	11							Probably nearby, but too small to be distinguished clearly Barely visible on Suva.
	eS	9	13							Resembles the last record
	L	9	14							
12	e	20	12							
	L	20	15							
13	P	2	40	48						25? 0 2h 35m 10s
	S	2	45	15						
	L	2	48	20						Wellington Riverview. Adelaide. indicate epicentre possibly southwest of Macquarie Is. Local small.
14		13	7							
14	L	17	44							No earlier phases found Suva. P. 17h 36.5m S. 17h 39m L 17h 40m clock error not known
15	M	9	44	2	15	23	5			local.
16	Pg	5	28	52						
	Sg		29	13						
	M	5	29	18	2	20	28	22		Felt in Wellington, 2RF
16	L	10	34							No earlier phases found. Suva. P. 10h 29m S 10h 30.5m L. 10h 32m clock error not known
17	Pg	11	23	43						
	Sg		24	14						
	M		24	20	2	125	150	220		Felt in Wellington, 3RF.

DATE	PHASE	GREENWICH TIME			PERIOD	AN	AE	AZ	DIST.	
		h	m	s						
1930 Dec. 17	Pg	17	55	7		M	M	M		
	Sg	17	55	20						
	M	17	55	24	2	33	56	30		Felt in Wellington, 2 RF.
17	Pg	18	46	45						
	Sg		47	5						
	M		47	10	2	12	25	9		Felt in Wellington, 2 RF.
	M	21	10							Small and not clear. paper changed just afterwards
19	Pg	0	50	42						
	Sg	0	51	5						
	M	0	51	10	2	25	25	18		
19	Pg	5	41	42						
	Sg	5	42	6						
	M	5	42	10	2	35	40	15		
21	PZ	15	3	7					75	0 14h 51m 22s
	PR 1		6	55						L and M, small and not clear.
	S	15	12	45						Acc. to Manila, 21 N, 122 E.
	L	15	26							
22		0	50							Weak traces of distant quake.
23	PZ	21	45	16					52	Probably at sea north of New Guinea.
	S	21	52	39						disurbed by changing paper.
24		5	34							Local very small.
24		6	44							Small movements, possibly L waves from quake in Argentine. 0 6h 3m 0s
24		12	28							Local, small.
25		13	28							Small movements. They do not seem to be part of the next quake.
25	P	13	56	43					24	S in time mark.
	S	14	1	0					24	S in time mark.
	L	14	5							0 13h 51m 19s
	M	14	6		16	42	12			Possibly from same epicentre as Dec. 13d 2h
30		19	34							Small movements, found also on Suva record, no phases.
31		6	31							Local, very small.