

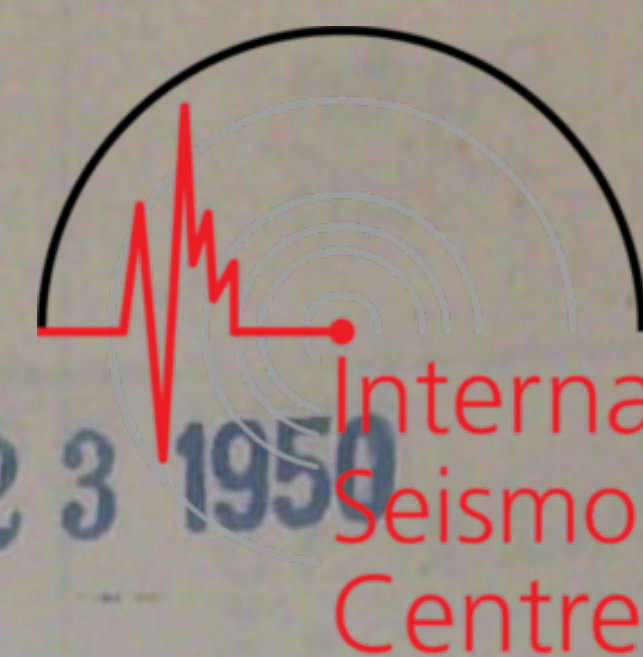
Seismological Report

for

SUVA, FIJI

1946.

FEB 23 1950

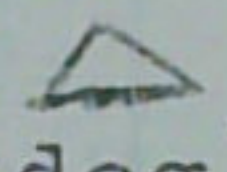
International
Seismological
Centre

Position: Lat. $18^{\circ} 9' S$; Long. $178^{\circ} 27' E$. Height above M.S.L. 20 ft.
Lithologic Foundation: Hard fine-grained calcareous marl.

Instrument: Milne-Shaw Seismograph; N-S component.
Pendulum Period = .12 secs.
Damping Ratio = 20:1.
Magnification = 250.

Observer: Officer-in-Charge, Meteorological Office, Suva, Fiji.

(Note: no records available prior to 30th June.)

Date 1946	Phase	G. h	M. m	T. s.	 (deg)	Remarks.
June 30	iS?	15	18	00		
	iL			25ca		
30	iL	18	08	45.		
July 1	iS?	8	49	38		
	L		50.	17ca		
1	P	22	43	35		In microseisms.
	PP		44	30		Sharp.
	S?		47	20		
	L		49ca			Rather long coda.
4	P?	7	03	23		Very small and doubtful.
	iS		05	28		Prominent.
4	iP	9	38	52		
	iS?		40	08		
	L			30ca		Prominent waves for 6 mins. ca.
4	eL	12.	06ca			Tremors.
7	eL	12	25ca			
7	eS?	7	42ca			Very small and doubtful.
	eL		53ca			
7	iP	19	57	03	6½ca	Small. h > N.
	iS		58	16		Sharp and large.
8	iS?	6	15	00		Small.
	L		16.8ca			
8	eL	10	04ca			
8	iP	16	50	03	21ca	
	iS		53	45		
	L		54.2ca			Prominent waves for 7 mins. ca.
9	iP	1	09	55	12ca	Very sharp; large ampl. for
	iS		12	10		3 mins.ca.; long coda.
9	eL	8	09ca			Tremors.
9	iP	13	15	47	8-9	
	iS		17	28		Very sharp; large ampl.; long coda.
11	L	5	10	ca		Small irregular tremors.
12	P?	18	51	24ca		In large microseisms.
	i		52	00		
	S?		54	39ca		
15	iS?	22	00	43		Large microseisms.
	L?		03	27ca		
17		11	00ca			Small tremors in microseisms.
18		6	45ca			Traces.
18		7	55ca			Traces.

Date 1946	Phase	G. M. T. h. m. s	(deg)	Remarks.
July 18		15 24ca		Traces.
18	P?	18 38 22		Very small and doubtful.
	iS	39 10		
19	iS	21 34 57		
	eLr	47ca		Prolonged series of small waves.
19		10 18ca		Traces.
22		19 55ca		Tremors; beginning lost during paper change.
23	iS?	3 27 19		Series of irregular waves.
	iL?	29 00		
23	i	17 18 30		Series of irregular waves.
	i	22 02		Sharp.
24		11 09 07		Series of irregular tremors.
24		19 29 16		" " " " waves.
26	P	2 09 51	5-6	Very small; short periods.
	iS	10 51		
26	iP	22 33 30	8 $\frac{1}{2}$ ca	Sharp. h > N.
	iS	35 07		Sharp; large ampl.
27	i	21 46 55		Tremors.
27	iP	22 41 23	5ca	
	iS	42 18		Very sharp.
28		11 43ca		Tremors.
Aug. 10	i	23 40 06ca		Tremors.
11	iP	1 59 30		
	i	50		
	i	2 00 40		
	iS	03 45		Sharp.
	i	04 11		Large.
	i	45		
	ScS	10 30	25ca	Prominent.
12	iS?	6 59 45		In microseisms.
	L	7 00.6ca		
14	eL	10 12ca		Traces.
14	i	11 48 57		Tremors.
14		23 15ca		Tremors.
15		3 36ca		Tremors.
15		4 00ca		Tremors.
15	L	4 34ca		
15	iP	15 26 00	8-9	Sharp; h > N.
	i	20		Sharp; large.
	iS	27 40		Very sharp; large ampl. for 5 mins. ca.
	i	30 40ca		
	PcP	32 00ca		Large.
	PcS	36 10ca		Sharp. Long coda.
15		17 34ca		Tremors.
16		2 14ca		Series of irregular waves.
17		19 06ca		Traces in microseisms.
23		5 20ca		Tremors in microseisms.
27		6 48ca		Series of waves.
28	iP	20 08 12	11ca	Sharp.
	i	25		Large.
	S	10 20ca		Prominent waves for 5 mins. ca.
29	i	0 12 15		
	L?	16ca		Rather prolonged movements.
29	iP	22 57 16		
	S?	58 55		
	L	59 12ca		Prominent waves.
30	eS?	20 11.7ca		
	L	22+		Prolonged waves.
Sep. 9		6 53ca		Tremors.
9		11 55ca		Traces.
9	L	17 43ca		
9	L	19 00+		
12	i	14 06 15ca		Series of irregular tremors.

Date 1946	Phase.	G. M. T. h m se	(deg)	Remarks.
Sept. 12	P	15 34 30	78ca	
	i	41 14		
	S	44 09		
	SS?	51ca		
	Lr	57ca		Large amp.; long periods.
13	iP	15 49 19		Sharp.
	i	35		
	i	50 27		Sharp.
	iS?	51 27		Sharp.
	Lr?	50		Sharp; considerable ampl. for 1 min. ca.
13	eL?	17 30.3		Tremors for 1 to 2 mins.
13	iS?	19 19 15		
	eL	31ca		Tremors for 40 mins. ca.
14	iP	2 46 20		Very sharp; largest ampl. in this group. h > N.
	iS?	48 33ca		
	i	49 45		
	i	51 40		Absence of L-waves.
14	P.	19 55 15		
	S?	20 01 45		
	ScS?	05 46		Long series of small tremors.
14	iP	21 59 46	10ca	
	iS	22 01 40		Large.
	i	03 20ca		Very large ampl.
20	i	21 23 32		Tremors in confused microseisms.
21	iP	21 27 10		In rather prominent microseisms.
	iS?	31 00		
	PcP?	50		
	iL	32.7		Marked waves for 4 mins. ca.
23	iP	21 56 15	13ca	Sharp.
	iS	58 35		Very sharp; large ampl.; considerable waves for 5 mins. ca coda following.
23	iP	23 36 23	32ca	
	iPP	37 08		
	iS	41 35		Sharp; prominent.
	iPcP?	42 25		" "
	Lr	44ca		Confused motion; rather long coda.
Oct. 4	i	22 09 30		Irregular tremors in strong micro- -seisms.
	eL	45ca		Long series of small waves for 1 hr.+. .
18	iP	2(40)(00) (29)	2½ca	Short periods; confused motion. Time in doubt owing to overlap- -ping traces.
22	eL	5 58ca		Traces.
22	iP	10 03 10	10ca	Sharp.
	i	04 49		Very sharp and large.
	iS	05 10		" " " "
	i	30		" " " "
22	L	13 49ca		Tremors for 10 mins. ca.
22	iP	17 29 27		
	iS?	31 05		
	L?	32ca		
	i	33 40ca		Group of prominent shorter period waves.
23	iP	5 14 46		Short periods; local.
	iS?	15 36		
24	iP	8 39 26	6ca	h > N.
	iS	40 35		Very sharp and large.
	i	57		Sharp.
	i	41 32		
24	i	10 09 28		
	L	10.1		

Date 1946	Phase	G. M. T.	(deg)	Remarks.
Oct. 26	iP i iPP i S iSS eSSS? Lr	0 34 47 37 43 39 02 46 02 47ca 52 50 58ca 1 07ca	100ca	Small. In minute gap. Rather prominent. Long series of small irregular waves till 2 ^h +. Small.
26	iP iS Lr	11 52 26 57 07 59+	28ca	Small waves for 20 mins.ca. Sharp; in heavy microseisms.
30	iS iScS iSS Lr	8 08 11 09 00 13 00 21ca		Conspicuous waves for 12 mins.ca. Sharp; very prominent group. Train of conspicuous waves till 11 ^h 57 ^m ca. Record marred by overlapping traces. Confused with microseisms.
Nov. 1	iSS Lr?	11 34+ 39ca		
1	iS? iL?	20 14 03ca 17 02		
2	iS? eL	14 21 16 20ca		
2	PKP PP PPP i S i SS SSS Lr	18 48 10ca 49 24 51 15 55 47ca 56 30 59 35 19 04 00 09.0ca 19+	110ca	Indefinite owing to microseisms.
3	eL	20 54ca		Long periods. " "
3		23 23ca		Very long period waves; long coda. Small waves.
7	i	5 48 53		Short period tremors in micro- -seisms.
7	i	13 52 10		Tremors.
12	iP iS?	17 30 40 31 20ca		" Very sharp, large movement. Very large ampl.; record unreadable for 6 mins.ca.; long coda.
13	L	4 01ca		
16	iP iS? iL i	11 52 11 53 50 54 35 56 22		Prominent group. Rather long coda of small waves.
18	i? eL	1 32 00 33.2		
18	iP iS	2 41 48 43 05	7ca	Sharp.
18		5 50ca		Very sharp; large ampl/ Tremors.
18	e i eL	13 47 12ca 52 00 14 05ca		
22	eL	3 37ca		Prolonged tremors. Prominent long period waves for 8 mins.ca.