

NEW ZEALAND

Department of Scientific and Industrial Research


Geophysics Division

APIA OBSERVATORY

FINAL SEISMOLOGICAL BULLETIN

STANDARD SEISMIC STATION (AFI)

AFIAMALU, WESTERN SAMOA

JULY 1985

 RECEIVED International
Seismological
Centre

APR 13 1987

ALBUQUERQUE
SEISMOLOGICAL
LABORATORY

No	Date	Phase		Time			Az Tz An Tn Ae Te (Deg.)						Remarks	
				(G.M.T.)										
1	1	P	Z	05	10	57							5.8	USGS:14.32S, 177.65W. Fiji Islands Region. h = 343 km. ? H = 05 09 28.8? Mag. 4.3 (GS)
2	1	P	Z	08	27	18								
3	2	P	Z	01	41	05								
		S	Z			45								
4	3	eP	Z	03	20	54							52.0	USGS:54.82S, 146.44E. West of Macquarie Island. h = 010 km. G H = 03 11 31.5 Mag.5.8MB 6.2MSZ(GS)
5	3	P	Z	04	43	53							36.0	USGS: 04.44S, 152.83E. New Britain Region. Felt h = 033 km. N H = 04 36 51.7 Mag.Ms7.4(BRK) 6.3MB 7.2MSZ(GS)
		(S)	Z		50	10								
6	3	P	Z	16	00	21							20.0	USGS: 17.24S, 167.83E. Vanuatu Islands. h = 029 km. H = 15 55 48.7 Mag.Ms6.7(BRK) 6.2(PAS) 5.8MB 6.4MSZ(GS)
7	3	eP	Z	17	56	44							19.9	USGS:17.44S, 167.76E. Vanuatu Islands. h = 029 km. H = 17 52 08.6 Mag. 4.7 (GS)
8	3	eP	Z	19	12	49							17.6	USGS:30.38S, 178.63W. Kermadec Islands. h = 029 km. D H = 19 08 54.5 * Mag. 5.2 (GS)
		S	Z		15	42								

No readings between 032209Z and 072016Z
due to some technical faults in the
Helicorder recordings.

8 No readings.



No	Date	Phase	Time (G.M.T.)	Az	Tz	An	Tn	Ae	Te (Deg.)	Remarks
9	9	P (s)	Z Z	11 12	10 28	51			8.4	USGS:19.68S, 178.11W. Fiji Islands Region. h = 610 km. * H = 11 08 48.8 * Mag. 4.6 (GS)
10	10	P S	Z Z	16	36 38	14 28			13.0	USGS:23.62S, 178.83E. South of Fiji Islands. h = 559 km. D H = 16 33 28.8 Mag. 5.1 (GS)
11	10	P S	Z Z	21	58 59	27 23			5.3	USGS:17.42S, 175.69W. Tonga Islands h = 231 km.? H = 21 57 09.0? Mag. 4.7 (GS).
11	No Readings									
12	12	P	Z	12	04	17			7.8	USGS:17.29S, 179.27W. Fiji Islands Region. h = 552 km. * H = 12 02 19.3? Mag. 4.2 (GS)
13	12	P	Z	12	08	57			20.0	USGS: 18.20S, 168.20E. Vanuatu Islands h = 037 km. H = 12 04 23.1 Mag.4.8MB 4.4MSZ(GS)
14	12	P S	Z Z	19	06 08	38 21			8.5	USGS: 20.82S, 178.51W. Fiji Islands Region. h = 584 km * H = 19 04 28.2 * Mag. 4.9 (GS)
15	13	P S eT	Z Z Z	01	06 08 19	09 19			13.8	USGS:26.53S, 177.51W. South of Fiji Islands. h = 123 km.* H = 01 02 58.8 Mag. 4.5 (GS)
16	14	P S	Z Z	05	50 51	14 00			3.1	USGS:15.21S, 174.86W. Tonga Islands. h = 278 km. * H = 05 49 17.4 * Mag. 4.7 (GS)
17	14	P S	Z Z	21	17 18	21 11			6.2	USGS:20.43S, 173.45W. Tonga Islands. h = 033 km. N H = 21 15 41.5? Mag. 4.4 (GS)
15	No Readings									
18	16	P S	Z Z	07	15 16	31 59			7.9	USGS:19.38S, 177.76W. Fiji Islands Region. h = 446 km. ? H = 07 13 43.6? Mag. 4.6 (GS)

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te (Deg.)			Remarks
19	16	P S	Z Z	11 11	09 26	57			8.0	USGS:19.30S, 178.37W. Fiji Islands Region. h = 577 km. * H = 11 08 09.2? Mag. 4.3 (GS)
20	17	P S	Z Z	15 15	49 50	30 40			7.1	USGS:20.53S, 174.39W. Tonga Islands. h = 033 km. N H = 15 47 47.8? Mag. 4.7 (GS)
21	18	P S	Z Z	16 16	49 51	58 08			7.8	USGS:19.82S, 177.50W. Fiji Islands Region. h = 474 km. ? H = 16 48 54.6 ? Mag. 4.9 (GS)
22	19	(P)	Z	14	39	48			27.0	USGS:38.78S, 176.97E. North Island, New Zealand Slight damage on North Is. Felt at Gisborne and Wellington and in the Bay of Plenty Area. h = 052 km. H = 14 34 01.2 Mag.5.7MB 5.8MSZ(GS)
23	20	eP	Z	12	50	00			7.5	USGS:17.66S, 178.76W. Fiji Islands Region. h = 561 km. * H = 12 48 08.1 ? Mag 4.6 (GS)
24	20	P S	Z Z	14 14	49 50	31 12				
25	21	P eS	Z Z	13 13	07 09	38 27			9.2	USGS:20.27S, 179.10W. Fiji Islands Region. h = 590 km. ? H = 13 05 27.4 ? Mag. 4.4 (GS)
26	21	P S	Z Z	23 23	26 27	30 41			7.0	USGS:19.73S, 175.91W. Tonga Islands. h = 195 km. * H = 23 24 48.9* Mag. 4.5 (GS)
27	22	iP S	Z Z	03 03	17 17	18.5 47			2.7	USGS:15.07S, 174.27W. Tonga Islands. h = 033 km. N H = 03 16 28.9* Mag. 4.8 (GS)
28	22	P	Z	09	34	21			39.8	USGS:06.29S, 148.78E. New Britain Region. h = 049 km. H = 09 26 53.8 Mag.5.8MB 6.9MSZ(GS)
29	23	P	Z	11	05	52			7.2	USGS:17.11S, 178.81W. Fiji Islands Region. h = 568*. H = 11 04 01.8 ? Mag. 4.4 (GS)



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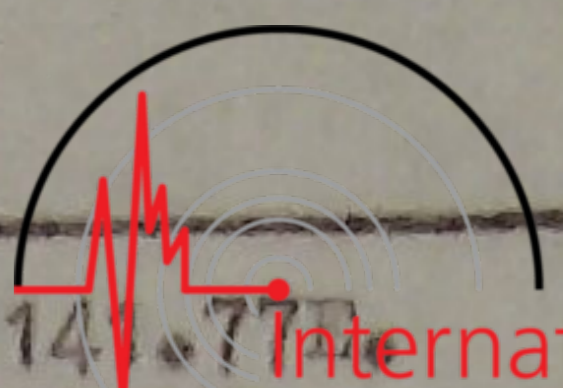
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No	Date	Phase	Time (G.M.T.)			Az	Tz	An	Tn	Ae	Te (Deg.)	Remarks
30	24	P Z	15	16	25						41.5	USGS: 05.46S, 147.01E. East Papua New Guinea Region. h = 196 km. H = 15 08 55.1 Mag. 5.4 (GS)
31	25	iP Z S unreadable	07	47	09						2.2	u USGS: 15.18S, 173.66W. Tonga Islands. h = 033 km. N H = 07 46 38.3 Mag. 5.3MB 5.1 MSZ (GS)
32	25	P Z S Z	20	30	52						9.2	USGS: 20.28S, 178.20W. Fiji Islands Region. h = 656 km. ? H = 20 29 03.6 ? Mag. 5.1 (GS)
33	26	P Z	12	22	57						22.0	USGS: 11.37S, 166.34E. Santa Cruz Island. h = 033 km. N H = 12 18 05.5 Mag. 5.8MB 5.2MSZ(GS)
34	26	P Z	22	37	09							
35	27	P Z S Z	16	59	40							
36	28	e(P) Z	16	36	17							
37	29	PKP Z	08	13	25						120	UAGS: 36.19N, 070.90E. Hindu Kush Region. At least 5 people killed, 38 injured and considerab. damage and landslides in the Chitral and Swat districts Pakistan Damage (VIII) and many people homeless in the Khorog Ishkashim area USSR Felt strongly in north eastern Afghanistan northern Pakistan and much of Northern India including New Delhi. h = 099 km. H = 07 54 44.0 Mag. 6.6 (GS)
38	29	P Z (S) Z	10	54	05							
				56	27							
39	31	P Z S Z T Z	01	09	42							
				11	00							
				16								

NOTE: All readings are from Helicorder (AFI). Photographic recordings malfunction.

No	Date	Phase		Time			Az Tz An Tn Ae Te (Deg.)					Remarks
				(G.M.T.)								
9	6	P S	Z Z	00 18	16 20	41	6.5	1.0			8.8	USGS:20.08S, 178.32W. Fiji Islands Region. h = 607 km. H = 00 14 35.9 Mag. 5.1 (GS)
10	7	P	Z	03	42	28					19.8	USGS:20.62S, 169.73E. Vanuatu Islands. h = 102 km. * H = 03 38 14.4 Mag. 5.4 (GS)
11	7	P S	Z Z	11 38	37 30	04					7.1	USGS:17.28S, 178.02W. Fiji Islands Region. h = 423 km. * H = 11 35 20.4 * Mag. 4.6 (GS)
12	7	P S	Z Z	17 46	44 15	40					8.3	USGS:19.50S, 178.03W. Fiji Islands Region. h = 626 km. D H = 17 42 39.9 Mag. 5.4 (GS)
13	8	P	Z	16	28	41					73	USGS:06.10S, 113.49E. Java h = 592 km. D H = 16 18 02.6 Mag. 5.7 (GS)
14	8	P	Z	16	40	36					73	USGS:06.10S, 113.44E. Java h = 596 km. D H = 16 29 57.9 Mag. 5.6 (GS)
15	9	P (S)	Z Z	06	10 43	05					3.2	USGS:15.32S, 174.62W. Tonga Islands. h = 208 km. D H = 06 09 15.3 Mag. 5.4 (GS)
16	10	(P)	Z	04	25	05					82	USGS:06.01S, 105.39E. Sunda Strait. h = 094 km. * H = 04 12 46.6 Mag. 5.3 (GS)
17	10	P	Z	16	43	26					36.0	USGS:04.25S, 152.88E. New Britain Region. Felt (V) at Rabaul. h = 032 km. D H = 16 36 08.2 Mag. 5.7MB 5.5MSZ(GS)
18	11	P	Z	00	28	24					54	USGS:11.16N, 140.22E. West Caroline Islands. h = 024 km. D H = 00 19 01.5 Mag. Ms 5.8 (BRK) 5.8MB 6.0MSZ(GS)
19	11	P S	Z Z	19 17	16 31	42						



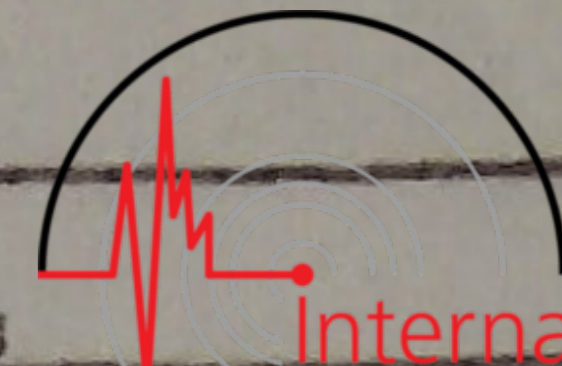


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No	Date	Phase		Time			As Ts An Tn Ae Te (Deg.)						Remarks	
				(G.M.T.)										
20	12	eP	Z	04	00	13							67	USGS: 37.77N, 141.77E Near East Coast of Honshu, Japan. Felt. h = 052 km. H = 03 49 18.0 Mag. Ms 6.2 (BHK), 6.0 MB 6.3 MSZ (GS)
21	12	P	Z	04	29	15							71	USGA: 06.997S, 117.215E. Bali Sea. h = 599 km. D H = 04 18 59.0 Mag. 5.7 (GS)
22	12	P	Z	15	21	04								
23	13	P S	Z Z	21	24 25	07 49							7.0	USGS: 18.80S, 177.93W. Fiji Islands Region h = 632 km. H = 21 22 12.2 Mag. 4.9 (GS)
24	13	iP S	Z Z	22	28 29	45 00							2.0	d USGS: 15.16S, 173.46W. Tonga Islands. h = 033 km. N H = 22 28 21.5 * Mag. 5.0 MB 4.8 MSZ (GS)
25	14	P	Z	04	15	09							19.3	USGS: 31.98S, 178.73W. Kermadec Islands. Felt on Raoul Island. h = 033 km. N H = 04 10 40.6 Mag. 5.5 MB 4.9 MSZ (GS)
26	14	P	Z	16	59	22								
27	14	P	Z	18	59	47							3.9	USGS: 16.03S, 175.07W. Tonga Islands. h = 305 km. * H = 18 58 43.1 * Mag. 4.6 (GS)
28	15	P S	Z Z	00	09 12	49 31							15.9	USGS: 28.46S, 178.56W. Kermadec Islands Region. h = 238 km. * H = 00 06 20.5 * Mag. 4.5 (GS)
29	15	P S eT	Z Z Z	12	16 17 22	02 16							7.1	USGS: 20.94S, 174.13W. Tonga Islands. h = 033 km. N H = 12 14 20.5 * Mag. 4.5 (GS)
30	15	iP S	Z Z	15	54	10.5 29							2.2	u USGS: 15.29S, 173.63W. Tonga Islands. h = 033 km. N H = 15 53 37.1 Mag. 4.4 (GS)

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No	Date	Phase		Time (G.M.T.)						Te (Deg.)	Remarks
					Az	Tz	An	Tn	Ae		
31	15	P	Z	21 55						10	
		S	Z	56 50							
32	15	P	Z	12 49						48	
										7.2	USGS:17.91S, 178.46W. Fiji Islands Region. h = 587 km. * H = 12 47 56.5? Mag. 4.1 (GS)

NOTE: No recordings after 15th due to Helicorder sheets exhausted. Calibration of Afiamalu Seismograph commenced on 20th Aug. until 10th Sept., 1985 by Juan Nieto from Albuquerque Seismological Laboratory (ASL).

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STANDARD SEISMIC STATION (AFI)

AFIAMALU, WESTERN SAMOA

October 1985

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No	Date	Phase		Time (G.M.T.)	Az	Tz	An	Tn	Ae	Te (Deg.)	Remarks	
1	1	eP eS e	ZN ZN Z	05 39 56 44 06 45 28						21.4	USGS:13.38S, 166.23E. Vanuatu Islands. h = 055 km. * H = 05 35 14.2 Mag.5.3MB 5.2MSZ(GS)	
2	1	eS eL	NE NE	16 14 24						65	USGS:52.30N, 168.86W. Fox Islands, Aleutian Islands. Felt (III) at Nikalski. h = 033 km. N H = 15 54 51.1 Mag.ML5.3(PMR), Ms5.4(BRK) 5.0(PAS) 5.7MB 5.4MSZ(GS)	
3	1	P S	NE N	17 10 12 13 52						21.1	USGS:33.80S, 179.20W. South of Kermadec Islands h = 033 km. N H = 17 05 31.6* Mag. 5.0 (GS)	
	2	No Readings										
4	3	eP S	NE NE	05 11 52 12 48						6.1	USGS:16.86S, 177.23W. Fiji Islands region. h = 033 km. N H = 05 10 26.9 * Mag. 4.7(GS)	
5	3	P S	NE NE	14 17 52 18 40						6.0	USGS:16.96S, 176.92W. Fiji Islands region. h = 033 km. N H = 14 16 10.7 Mag. 4.9 (GS)	
6	4	P eS eLr	Z NE NE	12 36 40 45 32 56						66	USGS:35.82N, 140.09E. Near East Coast of Honshu Japan. Eighteen people injured. Felt (VJMA) at Tokyo, (IVJMA) at Nikko, Tateyama and Kumagaya. (IIIJMA) at Mito, Kofu and Moebashi. Felt (IJMA) as far north as Obihiro, Hokkaido south to Hochijo-jima and west to Toyooka. h = 085 km. H = 12 25 51.8 Mag.mb6.2(BRK) 6.1(PAS) 5.9 (GS)	

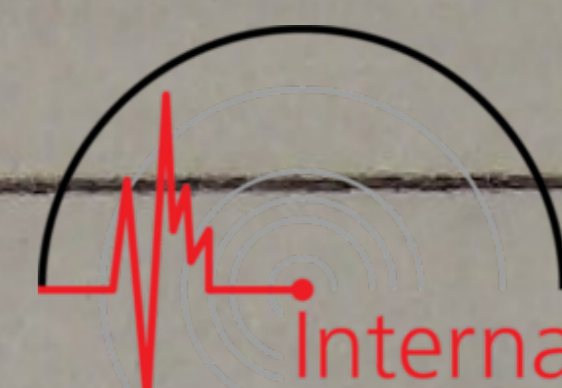


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No	Date	Phase	Time (G.M.T.)			Az	Tz	An	Tn	Ae	Te (Deg.)	Remarks
7	5	iP S unreadable	Z	11	11	02.7				2.3	d USGS:15.11S, 173.66W. Tonga Islands. h = 033 km. N H = 11 10 36.4 * Mag.4.8MB 4.6MSZ(GS)	
8	6	P S	Z Z	00	26	42				9.9	USGS:23.21S, 175.07W. Tonga Islands region. h = 033 km. N H = 00 24 32.3 * Mag. 4.9 (GS)	
9	6	P S eL	Z NE NE	12	04	46	4.8	1.2		18.7	USGS:18.96S, 169.43E. Vanuatu Islands. h = 273 km. H = 12 00 49.2 Mag.mb6.2(PAS), 5.7(GS)	
	7	No Readings										
10	8	P S T	Z Z Z	11	54	09						
11	9	P e eS	Z Z NE	01	26	01	5.4	1.2		81	USGS:06.79S, 107.08E. Java. Felt strongly at Sukabumi Felt at Jakarta and in western Java. h = 154 km. D H = 01 15 04.6 Mag. 5.9 (GS)	
12	9	P S T	Z Z Z	03	48	32				7.6	USGS:21.08S, 174.23W. Tonga Islands. h = 066 km. * H = 03 46 55.1 Mag. 5.1 (GS)	
13	9	eS e e eLr	ZNE Z E ZNE	09	53	40				68	USGS:54.77N, 159.61W. South of Alaska. Slight damage (VI) at Sand Point. Felt (V) at Cold Bay. Chignik Lake and Chignik Lagoon. Felt (IV) at False Pass, King Cove, Perryville and Port Heiden h = 030 km. D H = 09 33 32.4 Mag.Ms6.6(BRK), 6.6(PAL), 6.0(PAS), 6.2MB 6.6MSZ(GS)	
14	9	P S T	Z Z Z	17	25	16				7.6	USGS:21.10S, 174.20W. Tonga Islands. h = 066 km. * H = 17 23 38.3 Mag. 5.2 (GS)	
15	9	P S	Z Z	21	14	14				19.4	USGS:29.35S, 178.92W. Kermadec Islands. h = 354 km. * H = 21 10 38.4 Mag. 4.7 (GS)	

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te (Deg.)			Remarks
16	10	P S	Z Z	13 14 16	20 19				11.4	USGS:23.89S, 177.13W. South of Fiji Islands. h = 126 km.? H = 13 11 43.3 * Mag. 4.6 (GS)
17	10	P S	Z Z	14 06 08	59 22				7.7	USGS:18.67S, 177.94W. Fiji Islands region. h = 492 km. D H = 14 05 11.0 Mag. 5.2 (GS)
18	10	P S T	Z Z Z	15 13 14 21	11 37				8.9	USGS:22.37S, 174.39W. Tonga Islands region. h = 033 km. N H = 15 11 16.8* Mag. 5.2 (GS)
19	10	P S	Z Z	22 56 57	14 41				8.7	USGS:19.28S, 178.76W. Fiji Islands region. h = 585 km. * H = 22 54 08.8? Mag. 4.5 (GS)
20	11	P S	Z Z	19 33 36	50 52				17.9	USGS:30.79S, 178.14W. Kermadec Islands. Felt on Raoul Island. h = 020 km. * H = 19 29 44.7 Mag. 5.5 (GS)
21	12	P S	Z Z	02 14 16	55 23				9.0	USGS:21.66S, 176.38W. Fiji Islands region. Depth from broad-band displacement seismograms. h = 155 km. G H = 02 12 57.9 Mag.mb6.4(BRK) 5.9(GS)
22	13	P S	Z Z	12 45 46	02 28				7.9	USGS:19.30S, 177.76W. Fiji Islands region. h = 600 km. * H = 12 44 39.4 * Mag. 4.3 (GS)
23	13	P S	Z Z	14 16 18	28 46				13.8	USGS:25.15S, 179.90E. South of Fiji Islands. h = 487 km. * H = 14 13 35.4 Mag. 5.2 (GS)
24	14	P S	Z ZNE	20 25 26	52 16				2.5	USGS:15.71S, 173.47W. Tonga Islands. h = 053 km. ? H = 20 25 12.7? Mag. 4.4 (GS)
25	15	iP S	Z Z	14 32 33	51.5 56				6.6	u USGS:19.15S, 175.56W. Tonga Islands. h = 256 * H = 14 31 32.6 Mag. 5.0 (GS)





No	Date	Phase	Time (G.M.T.)			Az	Tz	An	Tn	Ae	Te (Deg.)	Remarks
26	16	P e(S)	Z Z	17 11	08 09							
27	17	P S	Z ZNE	08 09	59 03					22.2	USGS:34.98S, 178.86W. South of Kermadec Islands h = 033 km. N H = 08 54 29.8 Mag.5.4MB 4.6MSZ(GS)	
28	17	P S	Z Z	10 43	41 51	2.4	1.0					
29	18	P	Z	03	33					71	USGS:37.62N, 136.90E. Near west coast of Honshu, Japan. Felt. h = 035 km. H = 03 22 23.6 Mag.5.9MB 4.9MSZ(GS)	
30	18	P	Z	04	29					71	USGS:46.32N, 146.27E. Northwest of Kuril Is. Felt. h = 271 km. H = 04 19 06.4 Mag. 5.9 (GS)	
31	18	P eS	Z ZNE	10 14	11 12	2.0	1.2			12.1	USGS:17.45S, 176.31E. Fiji Islands region. h = 033 km. N H = 18 08 20.4 Mag. 5.0 (GS)	
32	19	P	Z	05	38					57.2	USGS:05.48S, 130.70E. Banda Sea. h = 069 km. * H = 05 28 48.3 Mag 5.2 (GS)	
33	20	iP S eT	Z Z Z	21 42 53	40 56					16.5	d USGS:29.01S, 178.77W. Kermadec Islands. h = 256 km. D Mag. 5.4 (GS) H=21 36 40.1	
34	21	P eS eL	Z ZNE ZE	02 45 46	41 00					21.6	USGS:13.60S, 166.00E. Vanuatu Islands. h = 033 km. * H = 02 36 10.2 Mag.5.5MB 5.2MSZ(GS)	
35	21	eS e(Lq) eLr	ZE N ZE	13 23 26	15 56					65	USGS:04.46S, 196.04W. Northern Easter Island Cordillera. h = 010 km. G H = 12 56 03.0 * Mag.4.8MB 5.2MSZ(GS)	
36	22	P S	Z Z	02 57	56 40					7.5	USGS:18.15S, 178.24W. Fiji Islands region. h = 595 km. H = 02 54 15.9 Mag. 5.0 (GS)	

No	Date	Phase	Time (G.M.T.)			Az	Tz	An	Tn	Ae	Te (Deg.)	Remarks
37	22	iP S	Z ZNE	17 22	21 32						3.4	u USGS:15.88S, 174.50W. Tonga Islands. h = 033 km. N H = 17 21 11.3 * Mag.4.6MB 5.1MSZ(GS)
38	22	P (S) S	Z Z Z	19 16 17	20 12 58						9.5	USGS:20.17S, 179.25W. Fiji Islands region. h = 686 km. D H = 19 13 09.4 Mag. 5.0 (GS)
39	23	P eS eSS eLr	Z ZNE Z ZNE	00 01 12 19	59 48 40						62	USGS:11.11S, 125.16E. Timor Sea. h = 014 km. H = 00 49 11.1 Mag.6.0MB 5.4MSZ(GS)
40	23	P S	Z Z	17 21	43 18						1.9	USGS:15.22S, 173.34W. Tonga Islands. h = 033 km. N H = 17 16 17.7 ? Mag. 5.2 (GS)
41	24	P S	Z Z	02 26	31 18	5.0	0.9				10.0	USGS:21.26S, 178.73W. Fiji Islands region. h = 540 km. * H = 02 22 20.4 * Mag. 4.4 (GS)
42	24	P S	Z Z	19 30	23 08						3.6	USGS:16.54S, 174.44W. Tonga Islands h = 295 km. * H = 19 28 20.5 ? Mag. 4.6 (GS)
43	24	P S	Z Z	20 06	32 09						9.0	USGS:20.60S, 177.88W. Fiji Islands region. h = 550 km. H = 20 20 28.7 Mag. 4.9 (GS)
44	25	P S	Z Z	01 19	44 13						7.5	USGS:18.55S, 177.84W. Fiji Islands region. h = 590 km. * H = 01 15 55.0 * Mag. 4.3 (GS)
45	25	eS eLq eLr	ZNE ZE ZN	02 36 39	28 32						65	USGS:52.07N, 171.35W. Fox Islands, Aleutian Is. Felt (II) at Nikolski h = 033 km. N H = 02 09 04.3 Mag. ML5.6(PMR) Ms5.6(BRK) 5.5(PAS) 5.6MB 5.5MSZ(GS)
46	26	P S	Z Z	00 47	15 50						8.8	USGS:20.57S, 177.65W. Fiji Islands region. h = 500 km. * H = 00 44 14.2 ? Mag. 4.5 (GS)

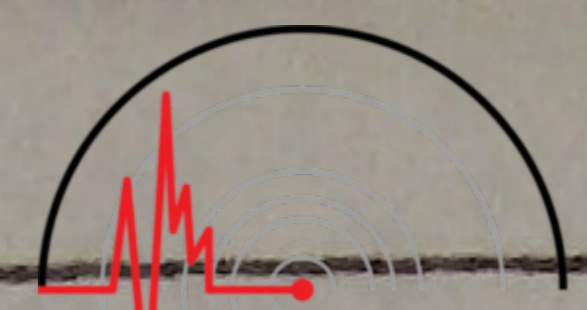


No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te (Deg.)			Remarks
47	26	P S T	Z Z Z	05 21 27	21 22 27	06 48		10.1	USGS:21.87S, 178.21W. Fiji Islands region. h = 399 km. H = 05 18 56.3 Mag. 5.0 (GS)
48	27	P S	Z Z	22 37	37 38	10 51		7.7	USGS:17.72S, 178.84W. Fiji Islands region. h = 565 km. H = 22 35 18.9 Mag. 5.4 (GS)
49	28	P S	Z Z	04 21	21 23	26 08		9.8	USGS:21.52S, 178.11W. Fiji Islands region. h = 422 km. H = 04 19 17.5 Mag. 4.9 (GS)
50	28	P S	Z ZNE	10 15	15 16	37 32		4.4	USGS:15.21S, 176.10W. Fiji Islands region. h = 033 km. N H = 10 14 38.5 Mag. 4.8 (GS)
51	28	P S	Z ZNE	12 53	53 54	28 24		4.4	USGS:15.40S, 175.99W. Tonga Islands. h = 033 km. N H = 12 52 31.2 Mag. Ms 5.6 (BRK) 5.6 (PAS) 5.5 MB 5.7 MSZ (GS)
52	29	P eS eLq eLr	ZNE ZNE ZN ZE	14 17 23 26 28	17 23 26 28	18 00		36.7	USGS:09.57S, 150.99E. East Papua New Guinea Region. Felt (V) h = 010 km. G H = 14 10 39.4 Mag. Ms 6.6 (BRK) 6.5 (PAS) 6.1 MB 6.7 MSZ (GS)
53	30	P S	Z Z	03 33	33 34	16 29		3.8	USGS:16.81S, 174.32W. Tonga Islands. h = 033 km. N H = 03 31 03.7 ? Mag. 5.1 (GS)
54	30	P S	Z Z	08 15	15 17	03 18		13.0	USGS:24.26S, 179.88E. South of Fiji Islands. h = 517 km. H = 08 12 19.3 Mag. 5.1 (GS)
55	30	P S	Z Z	12 26	26 27	08 18		6.0	USGS:15.95S, 177.52W. Fiji Islands region. h = 451 km. H = 12 24 39.4 * Mag. 4.5 (GS)
56	30	eS eL	ZNE ZNE	19 25	25 35	24		65	USGS:51.80N, 175.53E. Rat Islands, Aleutian Islands. Felt (II) on Shemya. h = 033 km. N H = 19 05 37.5 Mag. ML 5.5 (PMR) 5.6 MB 5.4 MSZ (GS)

Oct. 1985

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No	Date	Phase	Time (G.M.T.)			Az	Tz	An	Tn	Ae	Te	(Deg.)	Remarks
57	31	eS eL eL	ZNE ZNE ZNE	19 20 03	52 00 03							65	USGS:53.25N, 166.94W Fox Islands, Aleutian Islands. Felt. h = 030 km. G H = 19 33 06.5 Mag.Ms5.9(BRK) 5.8(PAS) 5.8(PAL) 5.8MB 5.7MSZ(GS)
58	31	e e e e e eLr	NE ZNE E ZNE ZE ZNE	22 14 15 18 23 35	11 16 28 20 24 35							100	USGS:28.69S, 063.17W. Santiago Del Estero Prov. Arg. h = 596 km. D H = 21 49 20.2 Mag.mb 5.8(BRK) 5.8(GS)



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