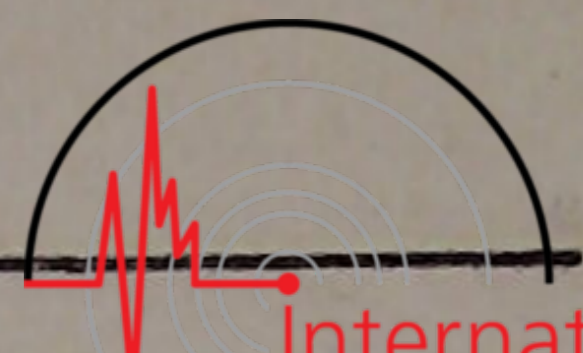


No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
11	4	iP S	Z ZNE	06 34 35	01.5 41							8.8	u USCGS: 19.8S, 178.6W. Fiji Islands region h about 624 km. H = 06 31 56.2 Mag. 5.6(BRK), 5.5(CGS)	
12	4	eP eS	Z ZNE	08 26 28	42 23							8.9	USCGS: 19.9S, 178.6W. Fiji Islands region h about 625 km. H = 08 24 37.5 Mag. 4.6 (CGS)	
13	4	S eL	ZE ZNE	14 47 58	00 00							65.0	USCGS: 7.6N, 126.9E. Mindanao, Philippine Islands Felt on Mindanao (II R.F.) h about 55 km. H = 14 27 49.9 Mag. 5.3(GOL), 5.2(CGS)	
14	4	eP eS	Z ZNE	19 44 46	11 18									
15	4	eP eS e(T)	Z ZNE ZNE	19 48 49 54	40 46 55									
16	5	ei(P) e(S) e(T)	Z ZNE ZNE	04 47 49 56	55 15 06									
17	5	eP S eT	Z ZNE ZNE	18 57 59 19	34 22 52									
18	6	iP iS	Z NE	09 43	02.1 24								d	
19	6	eP e(S)	Z ZNE	14 26 27	06 14									
20	6	eiP S L eT	Z ZNE ZNE ZNE	19 14 17 18 26	52 00 00 25							12.7	USCGS: 25.5S, 177.0W. South of Fiji Islands h about 66 km. H = 19 12 01.9 Mag. 4.6 (CGS)	
21	6	eP S	Z ZNE	21 42 44	48 09							8.5	USCGS: 21.0S, 176.4W. Fiji Islands region h about 293 km. H = 21 41 08.3 Mag. 4.4 (CGS)	
22	7	eP S T	Z NE ZNE	11 33 34 37	52 26 00									
23	7	iP S	Z ZNE	17 02 03	03 32							9.4	u USCGS: 22.6S, 175.2W. Tonga Islands region h Normal H = 16 59 57.9 Mag. 5.1 (CGS)	



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te					(Deg.)	Remarks
24	7	P	ZNE	17	13	53						8.9	USCGS: 22.4S, 174.4W. Tonga Islands region h Normal H = 17 11 52.3 Mag. 5.2 (CGS)
		S	ZNE		15	22							
		iL	ZE		16	12							
		T	ZNE		22	25							
25	7	e	ZNE	19	46	48							
26	7	e(P)	Z	19	53	33							
		e(S)	ZNE		55	46							
27	8	iP	Z	00	09	36							u
		S	ZNE		10	33							
		eT	ZNE		13	47							
28	8	e	ZE	17	09	40							
29	8	iP	Z	18	03	31.5						7.6	d USCGS: 17.9S, 178.6W. Fiji Islands region h about 640 km. H = 18 01 39.5 Mag. 4.8 (CGS)
30	9	iP	Z	02	56	25.3							d
		eS	ZNE		57	58							
31	9	eiP	Z	09	50	13							
		S	ZNE			45							
32	9	eiP	Z	16	05	38						19.5	USCGS: 19.0S, 168.6E. New Hebrides Islands Felt at Port Vila (V) h about 41 km. H = 16 01 10.5 Mag. 6.8(PAS), 6.5(BRK), 6.5(GOL), 6.1MB6.5MS(CGS)
		iP	ZE			42							
		S	ZNE		09	08							
33	9	e(P)	ZNE	16	31	32							
34	9	eP	Z	18	35	26						19.6	USCGS: 19.1S, 168.5E. New Hebrides Islands Felt at Port Vila (II) h about 33 km. H = 18 30 55.7 Mag. 5.3 (CGS)
		e	N		39	44							
		e	ZE		40	44							
35	9	eP	Z	19	50	40							
		(S)	ZNE		52	56							
36	10	eiP	Z	05	09	26						67.0	USCGS: 44.8N, 148.9E. Kuril Islands Felt on Hokkaido (III JMA) h about 40 km. H = 04 58 26.2 Mag. 5 ³ / ₄ (GOL), 6.0MB 5.4MS (CGS)
		eS	ZNE		18	24							
		e	Z		22	40							
		e	ZNE		26	32							
		eL	ZNE		29	00							
37	10	eP	Z	06	04	04						20.4	USCGS: 33.1S, 179.0W. South of Kermadec Is. h about 47 km. H = 05 59 32.4 Mag. 5.2 (CGS)
		(S)	NE		07	37							
		eT	ZNE		23	30							
38	10	eiP	Z	07	21	53						6.6	USCGS: 19.6S, 174.9W. Tonga Islands h Normal H = 07 20 18.3 Mag. 4.9 (CGS)
		S	ZNE		22	56							
		T	ZNE		25	10							



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te					△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae		
39	10	eiP	Z	08	53	39							
		S	ZNE		54	05							
		T	ZNE		55	50							
40	10	eiP	Z	14	33	47							
		S	ZNE		34	41							
41	10	eiP	Z	15	09	44							
		S	ZNE		10	45							
		e	ZNE		11	36							
		(T)	ZNE		14	37							
42	10	eP?	Z	17	26	08.5	0.9	1.0					
43	10	eP	Z	23	23	15					14.5		USCGS: 27.4S, 177.2W. Kermadec Islands region h about 62 km. H = 23 20 02.8 Mag. 4.3 (CGS)
		e(S)	NE		25	52							
44	11	P	Z	22	50	00					76.0		USCGS: 57.5N, 153.9W. Kodiak Island region Felt on Kodiak (V) h about 29 km. H = 22 38 34.6 Mag. 6.5(PAS), 5.75 (BRK), 5.75(GOL), 6.4 ML 6.0MB 6.0MS (CGS)
		S	ZNE		59	56							
		eL	ZNE	23	11	20							
45	12	ei(P)	Z	01	17	36							
		(S)	ZNE		19	47							
46	12	eP	Z	09	01	31							
		S	ZNE		02	14							
		eT	ZNE		05	17							
47	12	eiP	Z	16	32	57					9.9		USCGS: 20.7S, 179.2W. Fiji Islands region h about 615 km. H = 16 30 40.1 Mag. 4.7 (CGS)
		S	ZNE		34	48							
48	12	P	Z	17	00	40							
		S	ZNE		01	31							
		(T)	ZNE		05	21							
49	12	eP	Z	22	46	58							
		(S)	ZNE		48	32							
50	13	eL	ZE	15	54	52					66.0		USCGS: 4.5S, 105.1W. Northern Easter Island Cordillera. h Normal H = 15 24 49.4 Mag. 5(GOL), 4.5MB 4.9MS (CGS)
51	13	P	ZE	18	15	00					20.6		USCGS: 19.0S, 168.4E. New Hebrides Islands h about 17 km. H = 18 10 30.3 Mag. 4.8 (CGS)
		e(L)	ZE		20	20							
52	14	iP	Z	06	33	58.5							u
		S	ZNE		34	19							
53	14	eL	ZN	13	22	08					68.0		USCGS: 45.5N, 150.9E. Kuril Islands h Normal H = 12 51 26.5 Mag. 5.3 (CGS)

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae	Te		
67	19	eL	ZE	00	00	08							36.0	USCGS: 4.6S, 152.9E. New Britain Region Felt at Rabaul (II) h about 74 km. H = 23 43 55.2 Mag. 5.2 (CGS)
68	19	e(P) (S)	Z ZNE	01	09 10	10 26								
69	19	eP S e(SSS) L	ZNE ZNE E ZN	23 00	44 00	20 16 08 32							66.0	USCGS: 51.3N, 173.8E. New Islands, Aleutian Islands. Felt on Shemya h about 16 km. H = 23 33 29.1 Mag. 6.5(PAS), 6.1(BRK) 5.8MB 6.2MS (CGS)
70	20	e(P) (S)	Z ZNE	01	22 24	19 15								
71	20	e	ZN	01	54	08								
72	20	eP S	Z ZNE	03	10 11	15 13								
73	20	ei(P)	ZNE	04	48	36								
74	20	eiP S	Z ZNE	10	41 43	48.5 23								
75	20	iP eL	Z ZNE	11	18 38	14 40	1.5	1.0					65.0	u USCGS: 5.0N, 125.2E. Mindanao, Philippine Islands h about 65 km. H = 11 07 35.6 Mag. 5.7 (CGS)
76	20	eP S	Z ZNE	11	25 26	30 06								
77	20	eP eS	Z ZNE	12	42 44	42 57								
78	20	eS eSS eL	NE ZNE ZNE	22 23	56 02 08	56 08 24							81.0	USCGS: 45.0S, 80.3W. Off coast of southern Chile h Normal H = 22 34 16.9 Mag. 5.1MB 5.4MS (CGS)
79	21	eiP S	ZNE ZNE	04	14 15	34 47							7.9	USCGS: 20.2S, 176.7W. Fiji Islands region h about 350 km. H = 04 12 55.2 Mag. 4.6 (CGS)
80	21	eP e(S)	Z ZNE	06	13 16	00 56							20.2	USCGS: 12.6S, 167.4E. Santa Cruz Islands h about 34 km. H = 06 08 20.8 Mag. 5.2 (CGS)
81	21	e(P) e(S)	Z ZNE	08	24 26	49 52								
82	21	eL	ZNE	10	36	48							59.0	USCGS: 24.0N, 142.7E. Volcano Islands region h Normal H = 10 09 55.4 Mag. 5.4 (CGS)

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						Δ (Deg.)	Remarks
83	21	eiP S eT	ZNE ZNE ZNE	22 34 05 35 20 40 32								7.5	USCGS: 21.0S, 174.0W. Tonga Islands h Normal H = 22 32 23.7 Mag. 5.0 (CGS)	
84	21	eiP S	Z ZNE	22 53 33 55 15										
85	22	eiP S	Z ZNE	05 16 42.6 17 24										
86	22	eP S	Z ZNE	08 26 43 28 09								8.8	USCGS: 21.6S, 176.1W. Fiji Islands region h about 190 km. H = 08 24 52.9 Mag. 4.7 (CGS)	
87	22	e(L)	ZE	22 41 44								23.0	USCGS: 11.3S, 164.8E. Santa Cruz Islands region h about 21 km. H = 22 31 16.5 Mag. 5.1 (CGS)	
88	23	eP	Z	00 31 51								70.0	USCGS: 40.1N, 140.2E. Honshu, Japan Felt on northern Honshu and southern Hokkaido (Max. int. 11 JMA) h about 146 km. H = 00 20 54.7 Mag. 5.7 (CGS)	
89	23	iP S	Z ZNE	10 05 07 51										d
90	24	eL	ZE	04 29 12								20.1	USCGS: 17.1S, 167.9E. New Hebrides Islands h about 64 km. H = 04 19 24.1 Mag. 5.0 (CGS)	
91	24	eL	ZE	04 47 28								19.9	USCGS: 16.9S, 167.9E. New Hebrides Islands h Normal H = 04 38 05.7 Mag. 4.7 (CGS)	
92	24	eiP eS eSS eLq eLr	ZNE ZNE ZNE N ZE	10 45 20 53 28 57 40 11 01 00 04 08								59.0	USCGS: 22.0S, 126.7E. Western Australia Felt at Fitzroy Cross- ing (V) and at Perth (II). Appears to be the first epicenter located in this area. h Normal H = 10 35 22.1 Mag. 6.2MB 5.9MS (CGS)	
93	24	eiP eiS	Z ZNE	13 07 51.5 09 35								9.6	USCGS: 20.7S, 178.7W. Fiji Islands region h about 610 km. H = 13 05 43.8 Mag. 4.1 (CGS)	
94	24	iP S	Z ZNE	20 48 11.5 34										u



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te					△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae		
95	25	iP S	Z ZNE	16	52	29							u
96	26	iP eL	Z ZNE	19	11	30.2 33	3.5	1.1				73.0	u USCGS: 37.3N, 116.5W. Southern Nevada West Nevada Test Site "Hanley" AEC 37° 18' 01.7"N, 116° 32' 02.8"W h = 0 km. H = 19 00 00.2A Mag. 6.2(PAS), 6.3(BRK), 6.5MB 5.3MS (CGS)
97	27	eP	ZNE	04	38	36						19.6	USCGS: 19.1S, 168.5E. New Hebrides Islands Felt at Port Vila (II) h about 16 km. H = 04 34 03.4 Mag. 4.4 (CGS)
98	27	eL	ZNE	05	16	40						19.6	USCGS: 19.1S, 168.5E. New Hebrides Islands h about 11 km. H = 05 07 06.6
99	27	eP eS	Z ZNE	08	19	56 21						7.6	USCGS: 18.1S, 178.5W. Fiji Islands region h about 590 km. H = 08 18 02.1 Mag. 4.4 (CGS)
100	27	eiP S SS SSS L L	Z ZNE Z ZNE N ZE	18	47	59 57 08 19 02 16 04 53 06 28 09 20						70.0	USCGS: 0.4N, 119.3E. Northern Celebes h about 8 km. H = 18 36 45.8 Mag. 6.6(PAS), 6.5 - 6.7(BRK), 6.2MB 6.7MS (CGS)
101	28	eL	ZE	03	31	56						19.7	USCGS: 19.1S, 168.4E. New Hebrides Islands h about 3 km. H = 03 22 23.6 Mag. 4.2 (CGS)
102	28	e	ZE	05	25	39							
103	28	eL	ZN	06	10	20							
104	28	eP eS i eL	Z ZNE N ZE	07	52	37 57 56 08 00 20 02 20	1.4	1.0				33.9	USCGS: 6.3S, 154.6E. Solomon Islands Felt at Piva (VI) h about 64 km. H = 07 45 59.9 Mag. 5.4(BRK), 5.9(CGS)
105	28	e(S) e eL	E N ZE	10	04	56 05 56 07 16						19.2	USCGS: 22.4S, 170.4E. Loyalty Islands region h about 4 km. H = 09 57 52.8
106	28	iP iS	Z NE	10	39	24 44							u Samoa Islands region

No	Date	Phase	Time (G.M.T.)			Az	Tz	An	Tn	Ae	Te	△ (Deg.)	Remarks
107	28	iPKP Z PP ZN SKSP Z SS ZNE SSS ZN (L) ZNE L E L ZN	21	22	08							150.0	d USCGS: 39.2N, 29.5E. Turkey 1086 dead, 1174 injured, 8229 buildings destroyed, 5586 buildings damaged at Gediz and surrounding area by this earthquake and major aftershocks. Felt throughout Anatolia, at Istanbul and on Chios and Lesbos Islands. Max. int. X. Faulting extends from 39° 06'N. 29° 21'E. to 38° 58'N. 29° 24'E. and from this point to 38° 59'N 29° 33'E. Throws in rocks 350 centimeters. h about 20 km. H = 21 02 23.4 Mag. 7.3(PAS), 7 $\frac{1}{2}$ (BRK), 7-7 $\frac{1}{2}$ (PAL), 6.0MB 7.1MS (CGS)
108	29	iP Z S ZNE	05	38	55.1								u Samoa Islands region
109	29	eiP ZNE ei(S) ZNE	06	16	33.5								
110	29	e(P) ZNE	07	16	12								
111	29	iP ZNE S ZNE	09	00	07.5								u
112	29	iP ZNE iS ZNE	10	12	26							19.3	une USCGS: 17.1S, 168.5E. New Hebrides Islands Felt at Port Vila (II - III). h about 232 km. H = 10 08 20.3 Mag. 6 $\frac{1}{2}$ (BRK), 6-6.5(PAL), 6.0(CGS)
113	29	i(P) Z	10	19	55.5								u
114	29	eP Z eS ZNE eT ZNE	17	11	24							15.4	USCGS: 28.5S, 176.7W. Kermadec Islands region h about 67 km. H = 17 08 02.8 Mag. 4.3 (CGS)
115	29	e(S) NE eL ZNE	19	51	40							71.0	USCGS: 28.8N, 129.9E. Ryukyu Islands h about 23 km. H = 19 30 51.4 Mag. 5.4 (CGS)
116	29	eL ZE	22	32	32							65.0	USCGS: 4.9N, 126.0E. Talauds Islands h about 97 km. H = 22 02 28.0 Mag. 5.2 (CGS)

No	Date	Phase	Time (G.M.T.)			Az	Tz	An	Tn	Ae	Te	△ (Deg.)	Remarks
117	30	iP	Z	16	57	16						65.0	d USCGS: 6.8N, 126.7E. Mindanao, Philippine Islands Felt on Mindanao h about 76 km. H = 16 46 45.6 Mag. 6.9(PAS), 5.9(CGS)
		iS	ZNE	17	05	56							
		iSS	ZE		09	40							
		i(SSS)	ZN		13	20							
		L	ZNE		16	12							
118	30	e(P)	Z	20	48	28						41.0	USCGS: 49.6S, 164.3E. Auckland Islands region h Normal H = 20 40 50.1 Mag. 5.4MB 6.0MS (CGS)
		eS	ZNE		54	40							
		eSS	NE		57	40							
		eL	ZN	21	01	48							
119	31	iP	Z	15	29	21.6						9.9	u USCGS: 21.2S, 178.6W. Fiji Islands region h about 550 km. H = 15 27 09.5 Mag. 5.0(CGS)
		iS	ZNE		31	07							

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P.D. Müller

OBSERVER-IN-CHARGE

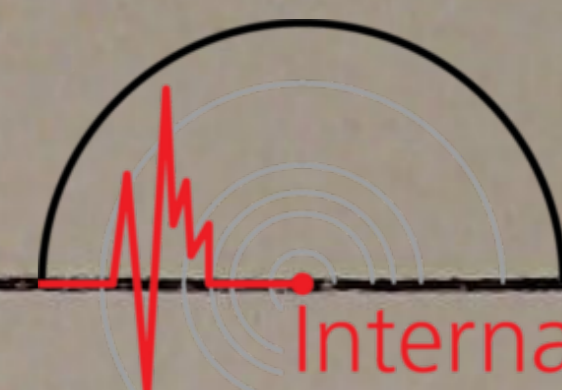
No.	Date	Phase	Time (G.M.T.)	Az Tz An Tn Ae Te						△ (Deg.)	Remarks
15	5	eL ZN	07 55 28								
16	5	eiP Z eS ZNE eSS E eSSS ZE eL NE eL ZNE	14 22 52 31 32 35 40 38 12 41 12 42 40							65.0	USCGS: 7.4N, 126.9E Mindanao, Philippine Islands h about 59 km H = 14 12 16.6 Mag. 5.6 (CGS)
17	5	iP ZNE S ZNE	19 47 15.5 36								u
18	5	eiP Z	23 49 31								
19	5	P ZNE S ZNE T ZNE	23 50 10 52 54 03							3.9	USCGS: 17.4S, 173.4W Tonga Islands h about 34 km H = 23 49 13.5 Mag. 4.8MB 5.0MS (CGS)
20	6	eP Z eS ZNE	04 13 45 17 20							18.9	USCGS: 19.2S, 169.3E New Hebrides Islands h about 146 km H = 04 09 33.2 Mag. 4.6 (CGS)
21	6	eL ZE	06 27 48							94.0	USCGS: 4.0N, 78.2W South of Panama h Normal H = 05 44 23.3 Mag. 4.5MB 5.1MS (CGS)
22	6	eSS NE eL ZE	14 04 56 07 04							30.6	USCGS: 9.0S, 157.4E Solomon Islands h Normal H = 13 51 57.6 Mag. 4.9 (CGS)
23	6	iP ZNE iS ZNE	22 56 27.5 57 19								d
24	7	e(P) Z e(S) ZNE	14 41 35 42 50								
25	8	e ZE e N e Z eL Z	05 03 40 15 44 17 16 39 40							111.0	USCGS: 18.0N, 64.6W Virgin Islands Felt strongly on Puerto Rico and the Virgin Is. and in the Dominican Republic. Minor damage on Puerto Rico. h about 150 km H = 04 49 10.6 Mag. 5.1(ERK), 5.8(CGS)
26	9	eS ZN eL Z	08 31 48 42 20							67.0	USCGS: 43.9N, 148.4E Kuril Islands region Felt on Hokkaido (1 JMA) h about 51 km H = 08 11 09.7 Mag. 5.4 (CGS)
27	9	eL ZN	11 55 48							67.0	USCGS: 43.9N, 148.5E Kuril Islands region h about 41 km H = 11 24 39.5 Mag. 5.4MB 5.6MS (CGS)

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
28	9	eS e eL	NE E ZN	12 32 42	00 00 20							67.0	USCGS: 43.8N, 148.4E. Kuril Islands region Felt on Hokkaido(1JMA) h about 48 km. H = 12 11 58.9 Mag. 5.5MB 5.7MS(CGS)	
29	10	eiP ipP eS isS	Z Z ZN ZNE	09 30 33 34	01 36 48 40							21.0	USCGS: 12.0S, 166.6E. Santa Cruz Islands h about 140 km. H = 09 25 24.4 Mag. 5.3 (CGS)	
30	10	eL	ZE	13	49	04						76.0	USCGS: 17.5N, 101.0W. Near coast of Guerrero Mexico Felt at Mexico City (III) h about 46 km. H = 13 14 50.9 Mag. 5.1MB 5.2MS(CGS)	
31	11	iP eiS	Z ZNE	00	37 38	08.2 41							d	
32	11	eP S	ZNE ZNE	04	22 23	47 56								
33	11	eiP (S)	Z ZNE	06	38 40	38 19								
34	12	eP e(S) eL	Z ZNE ZE	03	40 44 45	20 08 04						19.6	USCGS: 14.6S, 168.0E. New Hebrides Islands h about 33 km. H = 03 35 47.8 Mag. 5.1 (CGS)	
35	12	eP S	Z ZNE	08	22	24 55								
36	12	eiP eS	ZNE ZNE	08	50 51	39 48	3.3	0.9						
37	12	eP ePP eS eSS eSSS eL	Z Z ZNE ZE ZNE ZNE	09	28 31 37 41 45 49	55 48 44 48 28 16						67.0	USCGS: 10.8N, 125.4E. Leyte, Philippine Is. Felt (IV R.F.) h about 35 km. H = 09 17 59.0 Mag. 5.5MB 5.4MS(CGS)	
38	13	eP S	Z ZNE	03	02 03	11 22								
39	13	iP	Z	06	12	56.5						3.6	d USCGS: 16.6S, 174.1W. Tonga Islands h about 48 km. H = 06 12 04.2 Mag. 4.5 (CGS)	
40	13	P S	ZNE ZNE	06	13	07 32						3.6	USCGS: 16.7S, 173.9W. Tonga Islands h about 47 km. H = 06 12 14.4 Mag. 4.7 (CGS)	
41	13	eiP (S)	ZNE ZNE	11	37 39	20 14								
42	13	eiP S	ZNE ZNE	21	01 02	49.5 12								



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te					△ (Deg.)	Remarks
							Az	Tz	An	Tn	Ae		
43	14	eiP (S)	Z ZNE	00 06 13 07 41									
44	14	eP S T	Z ZNE ZNE	00 12 03 26 14 06									
45	14	eP (S)	Z ZNE	10 21 18 23 00									
46	14	iP S	ZNE ZNE	10 39 57.9 40 22								d	
47	14	eP S	Z ZNE	14 39 29 40 24									
48	14	eiP S	ZNE ZNE	19 03 04 30									
49	14	iP S	Z ZNE	19 17 26.5 18 07									
50	15	iP	Z	14 57 57.9	1.7	1.0					18.9	d USCGS: 20.8S, 169.8E. New Hebrides Islands h about 120 km. H = 14 53 46.8 Mag. 4.9 (CGS)	
51	15	eiP S	Z ZNE	15 32 56 33 23									
52	15	eP eS	Z ZNE	22 04 35 09 00							18.6	USCGS: 31.2S, 179.2W. Kermadec Islands region h Normal H = 22 00 10.0 Mag. 5.5 (CGS)	
53	16	eiP S	Z ZNE	07 40 48 42 58							12.9	USCGS: 25.3S, 178.1W. South of Fiji Islands h about 225 km. H = 07 38 00.8 Mag. 5.2 (CGS)	
54	16	e(P)	Z	11 28 18.3									
55	16	eiP S T	Z ZNE ZNE	15 46 15 48 28 56 45							13.1	USCGS: 25.9S, 177.2W. South of Fiji Islands h about 90 km. H = 15 43 20.2 Mag. 5.3 (CGS)	
56	16	P S T	Z ZNE ZNE	21 18 59 19 57 23 55							5.5	USCGS: 19.2S, 173.5W. Tonga Islands h Normal H = 21 17 44.2 Mag. 5.8MB 6.0MS (CGS)	
57	16	eiP S T	Z ZNE ZNE	23 24 30 53 26 40							2.1	USCGS: 15.6S, 172.9W. Samoa Islands region h Normal H = 23 24 02.8 Mag. 4.7 (CGS)	
58	17	iP S	ZNE ZNE	17 55 19.6 53								u	
59	17	eP S T	Z ZNE ZNE	20 06 42 08 09 14 27							8.7	USCGS: 22.1S, 174.7W. Tonga Islands region h Normal H = 20 04 46.5 Mag. 6.1 (PAS), 6.1 (BRK), 5.6MB 6.2MS (CGS)	

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
75	21	e eL	N ZE	08 56 57	16 16							27.9	USCGS: 9.9S, 160.0E. Solomon Islands Felt at Honiara h about 22 km. H = 08 44 21.9 Mag. 5.1MB 4.8MS(CGS)	
76	21	eP S	Z ZNE	13 52	03 47									
77	21	iP iS	Z ZNE	18 40 41	48 11									
78	21	P S T	Z ZNE ZNE	18 45 46 50	36 36 26							5.5	USCGS: 19.2S, 173.4W. Tonga Islands h about 88 km. H = 18 44 30.1 Mag. 5.1 (CGS)	
79	21	iP S	ZNE ZNE	22 22 23	44 25								u	
80	22	eiP	Z	13 17	10							41.2	USCGS: 5.5S, 147.3E. East New Guinea region h about 165 km. H = 13 09 39.8 Mag. 5.3 (CGS)	
81	22	eiP S	ZNE ZNE	16 20 22	34 04									
82	23	eiP e(S)	Z ZNE	06 48 50	34 40									
83	23	iP S	ZNE ZNE	13 21 22	56.5 22									
84	23	iP S	ZNE ZNE	15 45 46	51 20							2.8	u USCGS: 15.7S, 173.9W. Tonga Islands h about 95 km. H = 15 45 14.6 Mag. 5.4 (CGS)	
85	24	i	NE	00 32	52									
86	24	i	NE	00 54	12									
87	25	eP S eT	Z ZNE ZNE	05 14 15 19	37 33 33									
88	25	iP iS iSSS iL L	Z ZNE N N ZE	22 52 23 01 10 12 13	30 44 02 06 12							71.0	d USCGS: 32.2N, 131.7E. Kyushu, Japan Slight damage at and near Miyazaki. Felt throughout Kyushu on Southern Shikoku and in the Northern Ryukyu Islands. (Max int.VJMA) Tsunami height (Crest to trough in meters) Aburatsu .42, Tosa-Shimizu .52, Murotomusaki .10, h about 34 km. H = 22 41 10.7 Mag. 6.8(PAS), 6.3(BRK), 6.1MB 7.0MS (CGS)	



No	Date	Phase	Time (G.M.T.)			Az	Tz	An	Tn	Ae	Te	△ (Deg.)	Remarks
89	26	eP Z eS ZNE e(SSS)E eL ZNE	07	21	56							71.0	USCGS: 32.2N, 131.8E. Kyushu, Japan Felt throughout Kyushu and on Southern Shikoku. (Max int. IV JMA) h about 35 km. H = 07 10 36.0 Mag. 6.0(PAS), 5 $\frac{3}{4}$ (BRK), 6.1MB 5.9MS (CGS)
90	26	eP Z S ZNE	12	13	19								
91	26	eP Z S ZNE	13	12	41								
92	27	eP Z S ZNE	03	24	26								
93	27	eiP ZNE eL ZN e(T) ZNE	12	36	40							25.7	USCGS: 37.8S, 177.6E. Off E. Coast of North Island, New Zealand. h about 87 km. H = 12 31 18.7 Mag. 5.7 (CGS)
94	27	eiP Z (S) ZNE	21	22	28								
95	27	eiP ZNE e(S) ZNE	23	08	19								
96	28	eP Z S ZNE eT ZNE	04	49	41							8.5	USCGS: 21.7S, 174.6W. Tonga Islands h Normal H = 04 47 47.7 Mag. 5.2 (CGS)
97	28	eiP ZNE S ZNE	17	29	45								
98	28	e(P) Z e(S) ZNE	19	11	19								
99	28	eS NE eSS NE eL ZNE	23	29	12							82.0	USCGS: 44.5S, 79.6W. Off coast of Southern Chile h Normal H = 23 06 22.9 Mag. 4.8MB 5.8MS (CGS)
100	29	eP ZE iPP ZE iSKS ZNE iS ZE iSS ZNE iLq NE iLr ZE	10	29	54							98.0	USCGS: 26.ON, 95.4E. Burma-India Border region Property damage in Asam State, India. h about 59 km. H = 10 16 19.3 Mag. 6.4(PAS), 6.1(BRK), 6-6 $\frac{1}{2}$ (PAL), 6.5(CGS)
101	30	ePKP Z	01	11	37							131.0	USCGS: 37.8N, 55.9E. Iran-USSR border region 176 killed, 483 injured, 10,000 homeless and extensive property damage in Cities of Northwestern Khorasan. (Max int. VIII). h about 19 km.



No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
101	continued												H = 00 52 19.5 Mag. $6\frac{3}{4}$ (BRK), $6-6\frac{1}{2}$ (PAL), 5.7MB 6.6MS(CGS)	
102	30	iP	Z	04	12	57.1							d	
103	30	eP	Z	05	45	40						15.0	USCGS: 28.2S, 176.5W. Kermadec Islands region h about 48 km. H = 05 42 10.5 Mag. 4.6 (CGS)	
		eS	ZNE		48	08								
		eT	ZNE		59	50								
104	30	iP	ZNE	18	44	56						2.7	d USCGS: 15.6S, 174.0W. Tonga Islands h about 122 km. H = 18 44 17.9 Mag. 5.0 (CGS)	
		S	ZNE		45	22								
105	31	eP	Z	03	41	56						4.3	USCGS: 17.8S, 173.3W. Tonga Islands h Normal H = 03 40 57.1 Mag. 4.8 (CGS)	
		S	ZNE		42	45								
		T	ZNE		46	02								
106	31	eS	ZNE	15	33	56						56.0	USCGS: 27.0S, 113.3W. Easter Island region h Normal H = 15 16 18.7 Mag. 6.0(PAS), 5.3MB 5.6MS (CGS)	
		eL	ZNE		41	40								
107	31	iP	Z	17	01	11.7							u	
		S	NE		02	43								
108	31	iP	Z	17	20	40						101.0	d USCGS: 1.5S, 72.6W. Colombia Felt from Buenos Aires, Argentina to Mexico City, Mexico and throughout the Caribbean 1 dead, several injured and property damage reported in Junin Province, Peru. h about 651 km. H = 17 08 05.4 Mag. 6.8(PAS), 7.0 (BRK), 7.1 (CGS)	
		i	Z		22	56								
		i	ZE		24	36								
		i	ZE		27	40								
		S	ZNE		30	00								
109	31	eiP	ZNE	20	47	11.4						5.2	USCGS: 15.0S, 177.0W. Fiji Islands region h Normal H = 20 46 05.5 Mag. 5.2 (CGS)	
		S	ZNE		48	06								
110	31	iP	ZNE	21	58	39							u	
		S	ZNE		59	00								

P.D. Muller
OBSERVER-IN-CHARGE

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 STANDARD SEISMIC STATION (AFI)
 AFIAMALU, WESTERN SAMOA

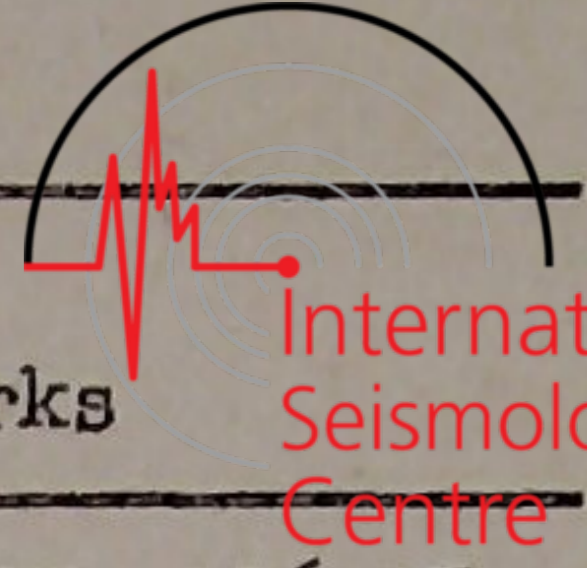
August 1970

No	Date	Phase	Time (G.M.T.)							△ (Deg.)	Remarks
				Az	Tz	An	Tn	Ae	Te		
1	1	eiP Z	06 29 14							19.9	USCGS: 15.3S, 167.7E. New Hebrides Islands h about 180 km. H = 06 24 48.2 Mag. 4.8 (CGS)
2	1	eiP Z	10 40 50							20.8	USCGS: 14.8S, 166.7E. New Hebrides Islands h about 32 km. H = 10 36 04.8 Mag. 4.9 (CGS)
3	2	eL Z	01 46 02							74.0	USCGS: 8.6N, 102.6W. Off coast of Mexico h normal H = 01 13 59.7 Mag. 4.6MB 5.3MS (CGS)
4	2	eiP Z	13 16 57							2.8	USCGS: 16.4S, 172.9W. Samoa Islands region h normal H = 13 16 19.9 Mag. 4.7 (CGS)
		S ZNE	17 28								
		T ZNE	19 35								
5	2	eiP ZNE	19 24 32							3.0	USCGS: 16.6S, 172.8W. Samoa Islands region h normal H = 19 23 55.3 Mag. 4.7MB 5.3MS (CGS)
		S ZNE	25 02								
		T ZNE	27 12								
6	3	iP ZNE	00 34 34.5							2.9	u USCGS: 15.9S, 173.9W. Tonga Islands h about 120 km. H = 00 33 54.3 Mag. 5.4 (CGS)
		S ZNE	52								
7	3	eiP ZNE	03 34 26							3.6	USCGS: 16.2S, 174.6W. Tonga Islands h normal H = 03 33 34.7 Mag. 5.2MB 5.1MS (CGS)
		iS ZNE	35 04								
		T ZNE	36 57								
8	3	eiP Z	05 26 32								
		S ZNE	58								
		T ZNE	29 06								
9	3	eiP Z	07 07 12							29.5	USCGS: 7.9S, 158.7E. Solomon Islands Felt at Honiara (III) h about 67 km. H = 07 01 11.9 Mag. 6.3 (PAS), 5.9 (CGS)
		i Z	25								
		eS ZNE	12 08								
		eL ZNE	14 44								

No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
10	3	iP Z i(P) Z	22	43	07 23							90.	u USCGS: 2.6N, 98.0E. Northern Sumatra h about 38 km. H = 22 30 02.5 Mag. 5.9 (CGS)
11	4	e ZNE	12	25	20								
12	4	e(P) Z e E e ZN	14	03	04 44 56								
13	4	eP Z e(S) ZNE	17	06	14 07 00								
14	4	P ZNE S ZNE T ZNE	19	35	00 29 37 09							2.7	USCGS: 16.0S, 173.6W. Tonga Islands h normal H = 19 34 21.9 Mag. 4.7 (CGS)
15	5	eP Z eiS ZNE	02	13	20 14 03								
16	5	iP Z	05	39	17							90	d USCGS: 9.2S, 78.9W. Near coast of Northern Chile h about 69 km. H = 05 25 57.6 Mag. 5.6 (CGS)
17	5	eiP Z S ZNE T ZNE	10	47	25.5 55 50 05								
18	5	eP Z eS ZNE	13	30	34 31 54							8.3	USCGS: 21.3S, 176.5W. Fiji Islands region h about 219 km. H = 13 28 38.5 Mag. 4.3 (CGS)
19	5	eP Z S ZNE T ZNE	13	42	32 43 03 44 42								
20	5	iP Z S ZNE	18	08	38.1 09 12								u
21	5	eP Z e(S) ZNE	22	19	18 20 50								
22	6	ei(P) Z	05	49	26								
23	6	e ZNE	06	07	40								
24	6	eP Z e(S) ZNE	17	46	51 49 09							13.9	USCGS: 25.2S, 178.8E. South of Fiji Islands h about 499 km. H = 17 43 52.4 Mag. 4.1 (CGS)
5	6	eP Z S N S ZE eT ZNE	21	23	56 25 33 40 32 52							9.8	USCGS: 23.0S, 175.4W. Tonga Islands region h about 50 km. H = 21 21 44.6 Mag. 5.0MB 5.2MS(CGS)
5	7	eiP Z S ZNE T ZNE	00	56	05.4 33 58 40								

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						Remarks
							△ (Deg.)						
27	7	eiP S	ZNE ZNE	04 21 22	46 18							7.4	d USCGS: 17.7S, 178.3W. Fiji Islands region h about 548 km. H = 07 51 12.0 Mag. 5.3(BRK), 5.5(CGS)
28	7	iP S	ZNE ZNE	07 53 54	01.5 28								
29	7	iP S	Z ZNE	08 36 37	28 31							5.5	d USCGS: 15.6S, 177.1W. Fiji Islands region h about 413 km. H = 08 34 56.3 Mag. 4.6 (CGS)
30	7	eP S T	ZNE ZNE ZNE	08 39 41	18 45 56								
31	7	eP S	ZNE ZNE	15 07 08	55 20								
32	7	eiP S	ZNE ZNE	15 13 14	38 00								
33	7	eS eL	NE ZNE	16 52 58	20 20							61	USCGS: 27.3N, 141.7E. Bonin Islands region h Normal H = 16 33 29.2 Mag. 5.4MB 5.6MS(CGS)
34	7	eP eS	ZNE ZNE	19 09 11	26 37							12.4	USCGS: 22.6S, 179.1E. South of Fiji Islands h about 583 km. H = 19 06 49.3 Mag. 4.7 (CGS)
35	7	eP S T	Z ZNE ZNE	23 29 30 32	50 16 20								
36	8	ei(P)	Z	06	16	49							
37	8	e(L) eL	NE Z	06 28 29	08 12								
38	8	e(S)	ZNE	07	11	52						11.0	USCGS: 16.8S, 177.3E. Fiji Islands h normal H = 07 07 03.3 Mag. 4.4 (CGS)
39	8	eiP S T	Z ZNE ZNE	07 20 22	15 41 42								
40	8	eiP S T	ZNE ZNE ZNE	09 33 35	01 26 28								
41	8	iP eS	ZNE ZNE	12 37 38	18.5 51	2.0	1.0					7.9	d USCGS: 17.2S, 179.3W. Fiji Islands region h about 552 km. H = 12 35 27.5 Mag. 4.1 (CGS)
42	8	eP	ZNE	17	00	23.3	1.6	1.0				7.9	USCGS: 17.5S, 179.1W. Fiji Islands region h about 558 km. H = 16 58 32.7 Mag. 4.1 (CGS)

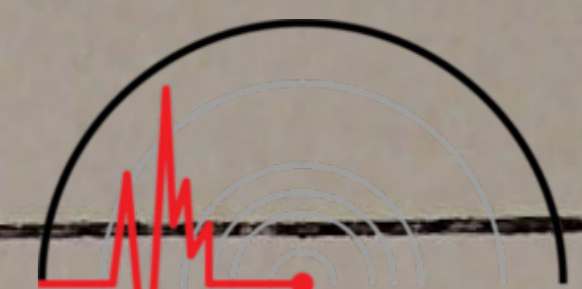




No	Date	Phase	Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks	
43	8	eS ZN eSS Z e(SSS)ZN eL Z	21	22	56								64	USCGS: 1.2N, 126.1E. Molucca Passage h about 24 km. H = 21 04 05.9 Mag. 5.2(BRK), 5.8MB 5.5MS (CGS)
44	9	e NE	02	57	24									
45	9	eS Z eL ZN	10	32	08								48	USCGS: 62.8S, 160.5W. South Pacific, Cordillera h normal H = 10 16 04.6 Mag. 5.2 (CGS)
46	9	e(P) Z	13	35	34								19.1	USCGS: 31.8S, 178.7W. Kermadec Islands region h normal H = 13 31 13.4 Mag. 4.5 (CGS)
47	10	iP ZNE S ZNE	11	34	48								3.5	u USCGS: 16.5S, 174.1W. Tonga Islands h about 60 km. H = 11 33 55.6 Mag. 5.0 (CGS)
48	10	eiP Z S ZNE	15	20	01								20.7	USCGS: 13.9S, 166.8E. New Hebrides Islands Felt at Lamap(III), and Luganville (III). h about 46 km. H = 15 15 19.7 Mag. 6.2(BRK), 6.5(PAS), 6.OMB 6.4MS (CGS)
49	10	ei(P) Z	15	27	47	2.3	1.2							
50	10	eP Z S ZNE T ZNE	17	29	57									
51	11	e(L) ZNE	05	00	16								53	USCGS: 18.ON, 145.4E. Mariana Islands h about 240 km. H = 04 40 43.3 Mag. 4.9 (CGS)
52	11	iP Z	06	09	24.4	1.0	1.0						21.0	d USCGS: 12.7S, 166.6E. Santa Cruz Islands h about 129 km. H = 06 04 48.5 Mag. 4.8 (CGS)
53	11	eiP Z	08	36	55								7.7	USCGS: 17.7S, 178.7W. Fiji Islands region h about 609 km. H = 08 35 01.0 Mag. 4.1 (CGS)
54	11	eiP ZE S ZNE L ZE	10	14	14	1.1	1.1						20.9	USCGS: 14.2S, 166.6E. New Hebrides Islands h normal H = 10 09 27.9 Mag. 5.1 (CGS)

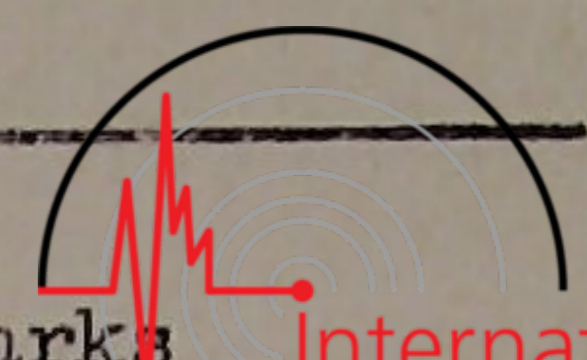
No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
55	11	eiP S	ZN ZNE	10 31	27 07 31 00							20.8	USCGS: 14.1S, 166.7E. New Hebrides Islands Felt on Banks Islands (IV), and at Luganville (IV). h normal H = 10 22 20.0 Mag. 7.5(BRK), 6.7(PAS), 6.2MB 7.0MS (CGS)	
56	11	ei(P)	ZN	10	34	52								
57	11	eiP	Z	13	14	47						20.8	USCGS: 13.8S, 166.7E. New Hebrides Islands h about 33 km. H = 13 09 40.1 Mag. 4.7 (CGS)	
58	11	eiP eS e(L)	Z ZNE ZE	16	21 25 26	08 20 36						20.8	USCGS: 13.8S, 166.7E. New Hebrides Islands h about 36 km. H = 16 16 20.2 Mag. 4.9 (CGS)	
59	12	eS eL	NE E	06	19 20	20 56						20.9	USCGS: 14.0S, 166.6E. New Hebrides Islands h about 45 km. H = 06 10 20.8 Mag. 4.7 (CGS)	
60	12	iP eS eL eL	Z NE E N	08	14 18 20	36.3 32 02 36						20.8	u USCGS: 14.1S, 166.7E. New Hebrides Islands h about 26 km. H = 08 09 48.9 Mag. 4.8 (CGS)	
61	12	eiP e eS i	Z NE NE E	08	26 30 31	09 12 20 28						20.8	USCGS: 13.9S, 166.7E. New Hebrides Islands h about 42 km. H = 08 21 24.4 Mag. 5.6(BRK), 5.1MB 5.4MS (CGS)	
62	12	iP eS iS i	Z E N E	09	10 14 15	36 32 41 53						20.8	u USCGS: 14.1S, 166.7E. New Hebrides Islands h about 37 km. H = 09 05 48.5 Mag. 5.2MB 5.0MS (CGS)	
63	12	eS eS eSS eSSS eL eL	N E NE N NE NE	09 10	47 53 57 00 04	08 36 40 20 28 00						89	USCGS: 12.0N, 86.5W. Nicaragua Felt at San Salvador, 1 El Salvador h normal H = 09 24 11.5 Mag. 6(PAS), 6(BRK), 5.9MB 6.3MS (CGS)	
64	12	eL	NE	11	04	40						89	USCGS: 12.1N, 86.5W. Nicaragua h normal H = 10 24 23.9 Mag. 5.3(PAS), 5.4(BRK), 5.6(CGS)	

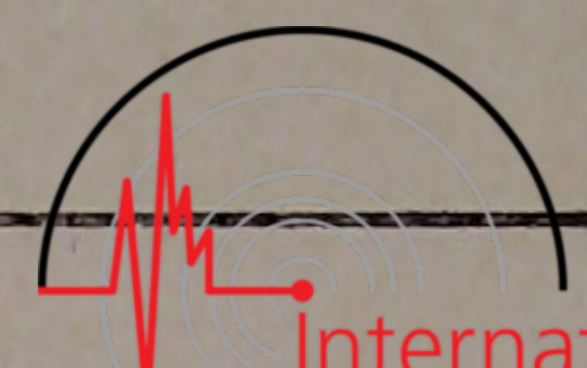




No	Date	Phase	Time (G.M.T.)						△ (Deg.)	Remarks	
				Az	Tz	An	Tn	Ae			Te
81	16	e(P) ZNE ei(S) NE	05 34 42 36 31								
82	16	ei(P) ZNE ei(S) ZNE	07 18 36 20 42								
83	16	iP ZNE S ZNE	22 22 04 25								
84	17	eP Z eiS ZNE eT ZNE	08 21 22 22 05 24 08								
85	17	eP Z S ZNE	18 25 41 26 00							Samoa Islands region	
86	18	eP Z S ZNE T ZNE	05 07 01 44 10 43								
87	18	eiP Z eS ZE	17 02 28 10 40						67	USCGS: 4.5N, 123.0E. Celebes Sea. h about 561 km. H = 16 52 25.3 Mag. 5.7 (CGS)	
88	18	eS ZNE eL E eL ZNE	18 13 48 24 45 27 20						77	USCGS: 60.7N, 145.4W. Southern Alaska Felt at Cordova, Anchorage and Palmer (Max. int. IV) h about 16 km. H = 17 52 06.3 Mag. 6.0(PAS), 5.5(BRK), 5.9ML(NOS), 5.6MB 5.9MS(CGS)	
89	19	eP ZE e ZE eS NE eL ZE	02 16 43 21 28 22 28 23 44						11.018.0	26.3	USCGS: 10.5S, 161.5E. Solomon Islands Felt at Honiara (III) h about 33 km. H = 02 11 09.4 Mag. 5.7MB 5.8MS(CGS)
90	19	eP Z S ZNE T ZNE	12 32 53 33 22 35 03								
91	19	eiP Z S ZNE	14 28 09 30 06								
92	20	eiP ZNE S ZNE	02 45 04 25								
93	20	iP ZNE S ZNE	12 17 04 18 05							u	
94	20	eP Z S ZNE	19 09 14 47								
95	21	iP ZNE S ZNE	08 39 11.3 47							3.9	d USCGS: 14.6S, 175.7W. Samoa Islands region h normal H = 08 38 22.3 Mag. 4.8(BRK), 5.3MB 4.9MS (CGS)
96	21	iP ZNE S ZNE	09 56 20.5 40								Samoa Islands region

No	Date	Phase		Time (G.M.T.)			Az Tz An Tn Ae Te						△ (Deg.)	Remarks
97	22	iP S	ZNE ZNE	04 09	27 48								u	
98	22	iP S	ZNE ZNE	17 17	43.2 03								d	
99	22	iP S	ZNE ZNE	18 06	16 40									
100	22	eiP S T	ZNE ZNE ZNE	18 51 54	35 05 25									
101	23	iP e(s)	Z NE	05 01	23.5 55	3.5	1.1					7.8	d USCGS: 17.8S, 178.8W. Fiji Islands region h about 560 km. H = 04 58 31.5 Mag. 5.0 (CGS)	
102	23	iP S	Z ZNE	15 41 42	53 13								u	
103	24	eiP S T	ZNE E ZNE	09 35 38 46	51 00 40							13.0	USCGS: 25.8S, 177.1W. South of Fiji Islands h about 63 km. H = 09 32 52.5 Mag. 5.2 (CGS)	
104	24	eiP S	ZNE ZNE	18 03	09 30									
105	24	eiP S	Z ZNE	19 46 47	41 00									
106	25	iP S T	ZNE ZNE ZNE	04 49 50 52	33 07 27							3.0	d USCGS: 16.6S, 172.8W. Samoa Islands region h about 22 km. H = 04 48 53.0 Mag. 4.7 (CGS)	
107	25	eP S	Z ZNE	05 41 42	37 13									
108	25	P S	ZNE ZNE	08 02	02 43									
109	25	iP iS	Z ZNE	11 49 51	26.3 38.5							13.3	d USCGS: 24.4S, 179.9E. South of Fiji Islands h about 488 km. H = 11 46 38.6 Mag. 5.0 (CGS)	
110	26	P S	Z ZNE	03 39	00 19								Samoa Islands region	
111	26	iP S	Z ZNE	03 55 56	45 03								u Samoa Islands region	
112	26	eL	ZNE	15 46	20							74	USCGS: 18.1N, 120.5E. Luzon, Philippine Is. Felt on Northern Luzon (max. int. VI R.F.) h about 53 km. H = 15 11 54.6 Mag. 5 $\frac{1}{2}$ (PAS), 5 $\frac{1}{4}$ (PAL), 5.4(CGS)	





No	Date	Phase	Time (G.M.T.)			Az	Tz	An	Tn	Ae	Te	△ (Deg.)	Remarks
113	26	eiP S	ZNE ZNE	18 18	16 03	27						8.7	USCGS: 20.1S, 178.1W. Fiji Islands region h about 550 km. H = 18 14 26.5 Mag. 4.7 (CGS)
114	27	P S	ZNE ZNE	13	04 05	00 55						10.9	USCGS: 21.8S, 179.6W. Fiji Islands region h about 640 km. H = 13 01 38.7 Mag. 4.7 (CGS)
115	27	iP	ZNE	16	22	49.1						2.0	dsw USCGS: 15.2S, 173.3W. Tonga Islands h about 23 km. H = 16 22 24.7 Mag. 5.9(PAS), 5.6-6.0 (BRK), 5.4MB 5.7MS(CGS)
116	27	iP S	ZNE ZNE	16	39	41 59							d Samoa Islands region
117	27	eiP S	ZNE ZNE	16	49	10 28							Samoa Islands region
118	27	eiP S T	ZNE ZNE ZNE	19	51 52 56	54 41 03							
119	27	eiP S	ZNE ZNE	20	12	15 32						1.9	USCGS: 15.2S, 173.2W. Tonga Islands h normal H = 20 11 52.0 Mag. 5.1 (CGS)
120	28	eiP S L	Z ZNE ZE	01	09 15 19	45 14 24						35.8	USCGS: 4.6S, 153.1E. New Ireland region Felt at Rabaul (IV-V) h about 88 km. H = 01 02 48.9 Mag. 6.2(PAS), 6 $\frac{1}{4}$ -6 $\frac{1}{2}$ (BRK), 5.9(CGS)
121	28	eiP S e(L) eT	Z ZNE ZNE ZNE	10	10 14 16 30	44 29 00 20						21.4	USCGS: 33.9S, 179.8W. South of Kermadec Is. h about 90 km. H = 10 06 08.8 Mag. 5 $\frac{3}{4}$ (BRK), 5.6(CGS)
122	28	iP	ZNE	14	01	52.5						2.0	d USCGS: 15.1S, 173.4W. Tonga Islands h normal H = 14 01 29.9 Mag. 5 $\frac{1}{4}$ (BRK), 5.3MB 5.3MS (CGS)
123	28	eiP	Z	14	16	45						1.9	USCGS: 15.2S, 173.2W. Tonga Islands h normal H = 14 16 23.2 Mag. 5.0 (CGS)
124	28	eL	ZE	18	55	48						74	USCGS: 18.6N, 121.0E. Luzon, Philippine Islands h about 23 km. H = 18 22 02.9 Mag. 5.1 (CGS)

No	Date	Phase	Time (G.M.T.)			Az	Tz	An	Tn	Ae	Te	△ (Deg.)	Remarks
125	28	eiP S T	Z ZNE ZNE	23 53 54	52 14 30								Samoa Islands region
126	29	iP S	ZNE ZNE	20	23	17					3.7	d USCGS: 16.8S, 174.1W. Tonga Islands h about 64 km. H = 20 22 22.4 Mag. 4.7 (CGS)	
127	30	eiP S	ZNE NE	00	44	28					2.4	USCGS: 16.1S, 172.5W. Samoa Islands region h normal H = 00 43 57.4 Mag. 5.3 (CGS)	
128	30	eiP S	Z ZNE	11	48 49	56 12							Samoa Islands region
129	30	iP S	ZNE ZNE	16	20	04.5 35							une
130	30	iP PP S sSP sSS i	Z Z ZNE ZNE ZE ZNE	17 18	56 58 05 09 13 16	37 44 16 16 17 08					72	d USCGS: 52.4N, 151.6E. Sea of Okhotsk Felt at Morioka and Kushiro, Japan (1JMA) h about 645 km. H = 17 46 09.0 Mag. 7.2(PAS), 6.5-6.75(PAL), 6.6(CGS)	
131	30	ei(P) i	Z Z	18	24	01 07							
132	31	iP S	Z ZNE	12	16 17	34.3 25							d

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P.D. Muller
OBSERVER-IN-CHARGE