OCT 16 1951

FLEET WEATHER CENTRAL GUAM, M.I.
PACIFIC MICROSEISMIC RESEARCH PROJECT

SEISMOLOGICAL BULLETIN

International Seismological Centre

August, 1951

Position:
(A) 13°27'45"N 144°43'29"E h= 555Ft.
(B) 13°27'09"N 144°43'12"E h= 520Ft.
(C) 13°27'35"N 144°42'50"E h= 440Ft.

Three Sprengnether horizontal seismometers, Series H, installed as a microseismic tripartite station with positions of each instrument in triangle designated as A, B, orC. Earthquake data taken from "A" position unless otherwise noted. East-west component on all instruments. Period of galvanometer and seismometer 7.0 seconds. Time control accurate to one second or less.

DATE	NO.	PHASE	TIME GMT	AMP.	PER.	REMARKS
Aug. 2	1	eiP	03h44m37s	060	4.5	Other phases missing due to record change. Data from C&GS card No. 91-51 Arc distance: 2200Km. Depth: 500Km. Position: 4°S 154.5E Time of origin: 03h40m27s
03	2*	iP	19h30m14s	020	4.0	Data from C&GS card No. S31-51 Arc distance: 6900Km. Depth: 200Km. Position: 28°S 121°W Time of origin: ~~03h22m46s~~ 19h20m15s
06	3*	eP	08h25m53s	012	6.0	Undae prime 1m45s later than travel curve. Data from C&GS card No. 93-51 Arc distance: 13500Km. Depth: 100Km. Position: 13°N 87.5W Time of origin: 08h08m56s
06	4	iP	15h15m38s	065	12.0	Ohter phases missing due to record change. Previous phase (possible) at 15h13m56s. Data from C&GS card No. 94-51 Arc distance: 2300Km. Position: 6°S 152E Time of origin: 15h10m42s

* These earthquakes not sent to C&GS by dispatch.

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August, 1951

DATE Aug.	NO.	PHASE	TIME GMT	AMP.	PER.	REMARKS
06	5*	eiP	20h03m51s	064	1.0	Local. Sharp period. Duration about 3 Min. Felt.
07	6*	eP	03h31m37s	too small	less than 1 Sec	Local origin.
10	7*	iP	01h03m16s	012	1.0	Of very local origin.
14	8	iP	08h00m53s	too small	less than 1 Sec	Local. Microseisms too large for accurate start. Data from C&GS card No. S33-51 Epicenter: 150 miles north of Guam. Time of origin: 08h00m28s Felt.
24	9*	iP	09h19m30s	024	less than 1 Sec	Of local origin.
24	10*	iP	14h28m09s	011	Und.	Microseisms too large for other measurements. Data from C&GS card No. 104-51 Arc distance: 3850Km. Provisional epicenter: 47°N 151 Time of origin: 14h21m15s
25	11*	iP	00h58m56s	010	less than 1 Sec	Of local origin.

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Microseismic amplitude for the month was exceptionally high due to typhoon activity in the area.

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International Seismological Centre

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FLEET WEATHER CENTRAL GUAM, M.I.
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SEISMOLOGICAL BULLETIN

September, 1951

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DATE Sept.	NO.	PHASE	TIME GMT	AMP. MM	PER.	REMARKS
2	1	iP	15h15m36s	13	(1)	Local. About 580Km.
		eS	15h15m22s	85	1.0	
3	2*	eP	00h09m38s	28	9.0	Data from C&GS card No. S36-51
		eS	00h16m28s	20	(2)	Arc distance: 5450Km.
						Position: Southeastern New Guinea
						Time of origin: 02/23h59m58s**
3	3	iP	18h22m06s	8	(1)	Distance about 1200Km?
		iS	18h23m56s	25	1.0	
3	4	iP	18h37m21s	(2)	(1)	Maximum amplitude about 200mm.
						Other phases not discernable.
						Felt locally.
						Data from C&GS card No. S36-51
						Position: Marianas Islands
						Time of origin: 18h37m00s
3	5	iP	18h58m29s	(2)	(1)	Felt
		iS?	18h58m35s	245	3.0	Data from C&GS card No. S36-51
						Position: Marianas Islands
						Time of origin: 18h58m08s**

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OCT 30 1951

Guam, M.I. — September 1951

Sept	NO.	PHASE	G.C.T.	AMP.	PER.	Remarks
5	6	iP	07h53m52s	06	(1)	Local, about 200 km.
		eS	07h54m12s	12	(1)	
5	7	eP	09h11m52s	4	(1)	Local, about 380 km.
		eiS	09h12m26s	14	10.0	
5	8*	iP	16h06m10s	3	(1)	Very local, very short.
7	9	eP	20h14m19s	33	7.0	No S phase
7	10	eP	21h48m12s	13	5.0	Other quake interference.
		eiS	21h54m49s	11	4.0	about 5,180 km.
		eiL	21h58m32s	60	13.0	
7	11	iP	22h52m25s	//	//	Measurement not clear due to previous quake.
8	12	iP	12h08m00s	02	(1)	Distance: 3,720 km.
		eiPP	12h08m50s	12	2.0	
		eSP	12h09m17s	22	4.0	
8	13	eiPP	16h23m48s	12	0.0	Data from USCGS card No. 537-51
		eSP	16h27m15s	28	0.0	Depth: about 500 km.
		eL	16h30m28s	55	0.0	Position: Kermadec Islands region
						Fine of origin: 16h15m27s
8	14	iP	17h24m06s	13	(1)	Very local.
9	15	iP	01h44m20s	(3)	(1)	Local: Distance about 100 km.?
		eiS	01h44m39s	27	(1)	
9	16	eiPP	04h53m50s	35	4.0	No primary, other phases not discernable. Data from USCGS card No. 108-51 Position: Samoa Islands region Arc distance: 5700 km. Fine at origin: 04h43m00s
9	17	e	10h39m38s	17	7.0	Not discernable.
9	18	iP	11h50m50s	25	(1)	(Edit) Very local
		eS	11h51m02s	104	1.0	
9	19*	iP	20h44m30s	5	(1)	Local.
		eS	20h44m43s	10	2.0	

Guam, M.I.

September 1951

Sept	G.M.T.			P.	Amp.	Remarks
No.					mm	
11	20h	eiP	20h20m40s	3	(1)	Distance: about 50Km.
		eS	20h20m49s	23	(1)	
12	21	eP	05h25m27s	4	0.9	Distance: 2,490Km.?
		iP?	05h25m56s	15	3.0	
		eiS	05h29m30s	28	4.4	
12	22h	eP	12h40m03s	4	(1)	Local.
12	23h	i	14h53m27s	4	(1)	Very local.
12	24	eiP	15h10m07s	13	6.0	Data from CaGo card No. 110-51
		eiS	15h21m12s	21	7.0	Kurile Island region
		eiS?	15h24m36s	36	7.0	Arc distance: 3650Km.
		iL?	15h27m43s	(2)	8.0	Time at origin: 15h10m16s
13	25h	eiP	1oh33m25s	40	6.0	Data from CaGo card No. 537-51
						Banda Sea region
						Time of origin: 1oh 26m25s
14	26h	iP	04h01m00s	8	(1)	Local: 100Km.
		eiS	04h01m12s	56	8.0	
16	27	eS	01h44m36s	(3)	(1)	Data from CaGo card No. 111-51
						Arc distance: 4,000Km.
						New Hebrides Islands
						Time at origin: 01h31m58s
21	28h	eiP	09h13m05s	86	0.5	Data from CaGo card No. 539-51
		eiS	09h20m15s	84	0.5	Molucca Passage
						Time of origin: 09h10m16s
21	29h	iP	20h44m30s	5	(1)	
		eS	20h44m43s	10	2.0	Local; questionable due to large microseisms.
23	30	eiP	00h02m47s	30	2.0	Data from CaGo card No. 539-51
						Distance: about 14,000Km.
						Time of origin: 23h40m37s; (22 Sept.)

* These earthquakes not sent to CaGo by dispatch.
(1) Period less than one second.
(2) Masked by microseisms.
(3) Amplitude less than one millimeter.
(4) Too large to measure (off recorder lens).

Microseisms generally too large for measurement of earthquakes the latter half of month.

DEC 10 1951

International Seismological Centre

FLEET WEATHER CENTRAL GUAM, M.I.
PACIFIC MICROSEISMIC RESEARCH PROJECT

SEISMOLOGICAL BULLETIN

October 1951

Position:

(A) 13°27'45"N
144°43'29"E
h 555ft.

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144°43'12"E
h 520ft.

(C) 13°27'35"N
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DATE	NO.	PHASE	TIME GMT	AMP. MM	PER.	REMARKS
Sept 30	31*	eiP	04h31m01s	(2)	6.2	Large microseisms Data from C&GS card No. S40-51 Position: Kermadec Islands Region Arc Distance: about 6200km. Time at origin: 04 21 28
Oct. 6	1	e	13h59m05s	10	2.0	Deep shock? No "L" waves Short duration
		ei	13h59m11s	50	2.4	
		ei	13h59m24s	174	5.2	
		ei	14h59m36s	(4)	(2)	
		ei	14h00m02s	190	5.4	
6	2	i	18h44m27s	27	(2)	Deep shock or shocks?
		i	18h44m39s	27	4.1	
		i	18h45m52s	17	(2)	
		i	18h46m32s	16	5.0	
		ei	18h46m52s	164	6.2	
16	3*	eiS	21h10m57s	(4)	6.3	Very large microseisms Data from C&GS card No. 122-51 Position: South coast of Shikoku, Japan Arc Distance: 2400km. Time at origin: 21h01m57s
18	4*	ePP	08h33m46s	108	5.6	Large microseisms Data from C&GS card No. 123-51 Position: 42°N, 142°W, near south coast of Hokkaido, Japan Depth: about 100km. Arc Distance: 3200km. Time at origin: 08h26m25s
		eS	08h36m37s	170	6.3	
		e_sS	08h38m16s	(4)	6.2	

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Guam, M.I.

October 1951

DATE Oct.	NO.	PHASE	TIME GMT	AMP. MM	PER.	REMARKS
21	5	iP	21h39m35s	(4)	5.5	Data from C&GS card No. 125-51 Position: Off east coast of Formosa Arc Distance: 2600km. Foreshock Time at origin: 21h34m13s
22	6	iP	03h34m50s	(4)	5.3	Data from C&GS card No. 125-51 Position: Formosa Main Shock Time at origin: 03h29m26s
22	7	iS	05h27m28s	(4)	6.3	Data from C&GS card No. S43-51 Position: Formosa Aftershock Time at origin: 05h17m44s
22	8*	eS	05h52m36s	(4)	5.4	Record off at time of P phase Amplitude well over 1000mm. Data from C&GS card No. 125-51 Position: Formosa Aftershock Time at origin: 05h43m01s
22	9	ei	10h31m54s	70	6.0	The beginning of a series of large amplitude buildups
2	10	iP eiS	12h54m02s 12h58m16s	88 200	5.6 6.0	Aftershock of Formosa quake?
22	11	e i e	14h52m17s 14h56m23s 15h00m40s	67 114 93	5.3 6.0 6.3	Aftershock of Formosa quake?
22	12	iP eS	15h35m08s 15h39m16s	97 (4)	6.0 6.2	Data from C&GS card No. S43-51 Position: Formosa Aftershock Time at origin: 15h29m47s
22	13	iP iS	18h47m52s 18h52m20s	48 (4)	3.8 6.5	Aftershock of Formosa quake?
23	14	iP eiPP eiS	01h24m58s 01h25m30s 01h29m18s	80 (4) (4)	4.0 6.2 6.5	Data from C&GS card No. S43-51 Position: Formosa Aftershock Time at origin: 01h19m35s
23	15	iP eiS	09h00m30s 09h04m55s	116 (4)	4.0 6.5	Data from C&GS card No. S43-51 Position: Formosa Aftershock Time at origin: 08h55m13s

SEISMOLOGICAL BULLETIN

Guam, M.I. October 1951

DATE	NO.	PHASE	TIME GMT	AMP. MM	PER.	REMARKS
Oct. 25	16*	iP	12h25m13s	(2)	(2)	Data from C&GS card No. S44-51 Position: Formosa Aftershock Time at origin: 12h19m38s
31	17*	eP	08 11 56	94	(2)	Data from C&GS card No. 128-51
		ePPP	08 13 08	140	5.6	Position: Malacca Straits Arc Distance: 4900km. Time at origin: 08 03 11 (Aftershock)

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(3) Amplitude less than one millimeter
(4) Too large to measure (off recorder)

Microseismic amplitude too high during month for complete earthquake summary

Address all literature for Guam, M.I. to:

Microseismic Research Project
Box 12 Com Nav Marianas
c/o FPO San Francisco, California

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PACIFIC MICROSEISMIC RESEARCH PROJECT

SEISMOLOGICAL BULLETIN

November 1951

Position:
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h 555ft.

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144°43'12"E
h 520ft.

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DATE Nov.	NO.	PHASE	TIME GMT	AMP. mm.	PER.	REMARKS
4	1	eP	08h59m21s	113	3.8	Data from C&GS card No.129-51
		ei_SP	09h00m21s	(4)	6.7	Position: near northeast coast of New Guinea
		eS	09h02m08s	(4)	7.0	Depth: about 200km.
						Arc Distance: 2150km.
						Time at Origin: 08h54m30s
4	2	iP	11h14m05s	(4)	4.5	Data from C&GS card No. 130-51
						Position: Samar Island, P.I.
						Arc Distance: 2100km.
						Time at Origin: 11h09m41s

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JAN 31 1952

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FLEET WEATHER CENTRAL GUAM. M.I.
PACIFIC MICROSEISMIC RESEARCH PROJECT

SEISMOLOGICAL BULLETIN

December 1951

Position:
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144°43'29"E
h 555ft.

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h 520ft.

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h 440ft.

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DATE Dec.	NO.	PHASE	TIME GMT	AMP. mm.	PER.	REMARKS
12	1	iP	20h28m54s	4	(1)	Local shock , duration 2½ min. Large "S" phase
22	2	eP	14h51m47s	215	5.5	Data from C&GS card #S51-51 Position. New Britain Island Reg. Time at Origin: 14h47m36s
24	3	eiP	14h41m55s	96	(2)	Data from C&GS card #S52-51 Felt locally Position: Marianas Islands Time at Origin: 14h41m26s

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