

Aleutian Volcanoes Project

Adak - Great Sitkin

Finger Bay :: F
 Mitchell Field :: M
 Sand Bay Station :: S

Date April 1949

	Phase	G. C. T.			Amplitude				Clear, Fog, Partly Cloudy, Rain, Snow,						
		h	m	s	T	E	N	Z							
April													Calm, Breeze, Wind, Williwaw		
82F	17F	eP	15	24	26	x	x						Near earthquake, Instrument started short time pen. c. Chron. 174 to 184 miles.* /prior.		
		iS			56.5		x						Not felt		
		iS			57	x							Changed Travel Time Curves, to Byerly Tables observations and Joliat Tables		
		iS			59.5	-1.5	2.5								
83F	17F	eP?	15	27	58		x	x					Near earthquake, 184 miles.		
		iS		28	28			.7							
		iS			31	-1.2	1.2								
81F	17F	eP	09	51	10		x	x					Near earthquake, 115 miles.		
		iS			31	-2.5	-0.7								
84F	19F	iP	00	30	29	0.8	-0.7	-0.2					Local earthquake, 98 miles.		
		iS			47	1	-1	-1							
		iM			48	1	6	6					(Usually this maximum is given as iS in this Tabulation)		
85M	20M	i	11	28	06.5								Instrument re-started, time approximate.		
		iS			14		5						possibly a local shock, 38 miles.		
		iS										1			
85S	20S	-	11	31	--								Earthquake felt at Sand Bay, reported as either 20 or 21 of April. corresponds to above shock.		
86M	29M	iS	16	06	25			.7					Small local shock, no P		
87M	30M	eS	02:00:40												
May															
88M	4M	e	02	33	06.5								P? local or near shock at both stations. 136 mi. time slow on M.		
		iS			31										
88F	4F	e	02	33	22										
		iS			34		1								
		iS			35	-0.7	-0.7								
89M	7M	i	11	05	55			1.7					Seismic, Record damaged at F.		
90M	16M	iP?	21	18	17.06			.2					Local shock, 58 mi.		
		iS			17	.7	.2								
90F	16F	iS	21	18	16	.5	.7						No visible P phase.		
91M	18M	iP	05	48	34.4			.7	-0.2				Local shock, 46 mi.		
		iS			43.4	1	3.5	1.8							
91F	18F	eP	05	48	33.3								50 mi. N. of Adak.		
		iS			40.4	2.5	1.8								
		iS			41.1										
92	21F	eP	20	29	42.3			x					Local shock, 100 mi.		
		iS?			58.8										
		iS			30	.7	.7								
92	21M	eP	20	29	44.0								98 mi. S. of Adak		
		iS			30	2.5									

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Date 1949

	Phase	G. C. T.			Amplitude				Clear, Fog, Partly Cloudy, Rain, Snow,					
		h	m	s	T	E	N	Z						
June														
105F 14 F	eP	05	50	04										Calm, Breeze, Wind, Williwaw
	iP			07										pen c. Chron. Near shock.
	iS			51.5										Sn-Pn :: 47.5 sec. 274 mi.
	iS			58.5			.5	.7						Not felt S-P :: 50.5 sec. 281 mi.
106M 15 M	iP	01	47	53										
	iP			55										
	iS		48	16										
	iS			18			7	12	.7					
106F 15 F	0	01	47	21.6	average time at Epicenter, ave. dist. :: 125.4 mi. from M & F.									
	eP	01	47	52										
	iP			54.5										
	iS		48	16.5										
	iS			18			10	12	3					
107M 16 M	e	02	23	21										
	iS			23					.5					Local shock not on F. record.
108M 16 M	i	03	10	32					.5					Blast on Air field ?
109F + 109M 19														
112F 28 F	iP	16	16	12.6										Local shock, 60 mi.
	iS			24.2			5	6	1					
112M 28 M	iP	16	16	14										dist. :: 63 mi.
	iS			26			1		7					
July														
113F 9 F	iP	05	44	21										Local shock, 57 mi.
	iS			32			.2							
113M 9 M	iP	05	44	23										
	iS			35					.5					63 mi.
114M 14 M	eP	11	14	49										Small local shock,
	iS		15	06					.7					91 mi.
114F 14 F	iS	11	15	05					.7					
115M 15 M	iP	16	00	09										near
	iS			29					1.2					Small local shock.
														109 mi.
115F 15 F	iS	16	00	26			.5		.5					
116M 19 M	iP	19	48	41										Small local shock, not on F. record.
	iS			55					.7					75 mi.
117F 23 F														
117M 23 M														

Aleutian Volcanoes Project

Finger Bay Station :: F

Adak - Great Sitkin

Mitchell Field :: M Date

August 1949

Aug.	Phase	G. C. T.			Amplitude				Clear, Fog, Partly Cloudy, Rain, Snow,
		h	m	s	T	E	N	Z	
					millimeters				
4 F ✓	iP	05	36	48.1	-0.3	-0.7			Calm, Breeze, Wind, Williwaw
	iS	36	56.4		1	4	5	1	pen. c. Chron. both corrected
									Moderate shock, 41.5 miles
4 M ✓	iP	05	36	49.1	-0.1	-2.2	-0.6		Not felt
	iS	36	58.2		1	5	8	4.5	45.5 miles epicenter probably SW of Adak.
									(Largest amplitude of S used in local shocks)
5 M	iP	04	18	01			.1	1.3	not felt, small local shock, (not on F.)
	iS			11					50 miles.
8 M	iP	02	25	51					not felt, small local shock, (not on F.)
	iS		26	00			1.5		45 miles
17 M									
17 M	iS	04	09	00			0.5		not felt, very small local shock, not on F. distance unknown.
18 F ✓	iP	20	31	33.7	1.0-1.3	-1	+2		not felt, Moderate local shock, 41 miles,
	iS		31	41.9	1.2	8	9	2	(Disagreement in operator Elikor's time; 20 hr at M, 21 hr. at F.) undoubtedly same)
18 M	iP	21	31	35.3	0.7-1.6	-5.2	-8.5		Epicenter probably SW of Adak,
	iS		31	44.5	0.7	14	13	15	46 miles.
22 M ✓	eP	04	06	51					Distant earthquake, felt along British Columbia & Washington Coasts, from Oregon to Alaska. not on F.
	eP			53					
	iPP		07	09					
	iS?		11	34					other long waves present, not distinct.
22 F ✓	eP	06	32	07.8					small near shock, not felt,
	iS			38.9			2.5		ave. S :: 39.4, 158 miles
	iS			39.9			1.5		
22 M ✓	iP	06	32	07.8					158 miles, this distance reaches almost to Semisopchmoi.
	iS			39.4			2.6		
25 F ✓	iP	04	14	59.6	1	-0.4	-0.8	+0.8	Felt by many on Adak
	iS		15	21.7	1	11	14	7	110.5 miles
25 M	iP	04	15	01.3	0.7	.5	-0.3	0	
	iS			24.1	1	11	13	0	114 miles. Confusion of directions no choice of epicenter, but South of Aleutian Chain.

International nomenclature used as per Macelwane.

23 Sept 1949

Aleutian Volcanoes Project

Finger Bay Station :: F
Adak - Great Sitkin Sand Bay Station :: S Date September 1949

Sept.	Phase	G. C. T.			Amplitude				Clear, Fog, Partly Cloudy, Rain, Snow, Calm, Breeze, Wind, Williwaw pen. c. Chron. Artificial disturbance not on F Not felt not felt, Near shock 122 miles dist. time 0::22;24;03.0 GCT 143 miles dist. time 0::22;24;02.9 GCT epicenter probably west of Gareloi. Near GareloiXXXXXXXXXXXX
		h	m	s	T	E	N	Z	
2 S	e	20	57	--				.4	
12 F	eP*	22	24	32.6					
	iP			35.2					
	iS*	25	54.5						
	iS		59		0.6	5	3.5	-	
12 S	eP*	22	24	37.9					
	iP			40.1					
	iS*	25	03.7						
	iS		06.0		1.0	3	4	3	
14 S	e	22	24	--	0.1			0.3	Artificial, not on F.
22 F	eP*	00	38	07.5					Not felt, local shock
	iS*			23.6	0.8	4.5	4.5	--	86 miles dist. 0::00;37;45.6 GCT
22 S	eP*	00	38	12.0					106 miles dist. 0::00;37;45.5
	iS*			31.5	0.8	1	1.5	2.5	Between Tanaga and Gareloi.
22 S	iS*	20	52	13				-0.6	Probably not iP, dist. greater than 45 miles
	iS			22	0.6	1	2.0	2	(S-S* indicates ca. 320 miles) F stopped.
27 F	iP*	17	07	59.7				x	small near shock, 113 miles dist.
	iP		08	02.0					
	iS*			20.4					0::17;07;31.2 GCT
	iS			24.7	0.7	1.5	0	0	
27 S	iP*	17	08	04.6				x	136 miles dist.
	iS*			29.4	0.5	0.5	-	0.5	Epicenter ca. west of Gareloi
28 F	i	18	21	--	-	1	-	-	Disturbance not on Sand Bay record.

Legend.
e type of beginning, emersio or easy.
i " " " impetus or sudden Macelwane pp. 258-260.
P normal longitudinal wave, TT from Byerly p. 210. (third layer ?)
P* observed longitudinal wave in Aleutians, intersects above TT at 200 miles
S normal transverse wave Byerly
S* obs. Aleutians, intersects above TT at 180 miles
Measurements of Amplitudes following S are of the maximum rather than for the beginning iS, size of the shock is to be judged from this figure; it should be interpreted as plus or minus 5 or 8 or whatever.

Aleutian Volcanoes Project

Adak - Great Sitkin

Date October 1949

	Phase	G.C.T.			Amplitude				Clear, Fog, Partly Cloudy, Rain, Snow,			
		h	m	s	T	E	N	Z				
Oct. 2 S	iP	11	46	57.9					Calm, Breeze, Wind, Williwaw			
	iS		47	11.1	0.6	1	2.5	4	S-P:: 13.2 sec, dist.: 70 mi.			
	iS			14.5					pen. c. Chron. O::40.7 sec.			
									Not felt U.S.O. & G.S. O::11:46:50 Aleutian Is.			
2 F	iP	11	46	53.7					S-P:: 9.7 sec. 49 mi. O::41.1 sec.			
	iS		47	03.4	0.4	2	2.5					
3 F	eP	02	24	03.9					(S-P) :: 20.74 dist.: 111 mi.			
	iS			24.3		0.5	1					
	iS			25.4								
10 S	eP*	22	18	32.2				x	S-P 17 sec. 90 mi.			
	iP			33.1				x				
	iS*			49.3				x	O::22:18:10 GCT			
	iS			51.2	0.5	0.5	1.5	1.5				
10 F	iS*	22	18	40.6					no P Travel time S*:: 69 mi.			
	iS			42.3	.5		0.5		Near Tanaga Island ?			
15 S	iP	15	40	55.0			0.2	1	S-P :: 9.2 sec. 46 mi. Direction So.			
	iS		41	04.2		1	1.6	2	O::15:40:43 GCT			
15 F	iS	15	40	56.4	0.7	2.5	.7		TTS*:: 13.4 sec. dist. 23 mi. due South of Finger Bay station.			
21 S	e	03	33	30					faint seismic waves USC&GS gives epicenter at 54 N- 169 W O::03:32:13			
	e		36	02								
21 F	e	03	35	32								
29 S	e	02	40	00					disturbance not on F.			
Nov. 3 S	eP	01	17	02	1.2		0.1		Small waves not on F. 48 1/2 N 154 E Kurile Islands, dist. 19 1/2 degrees reaches to above epicenter, Macel. tables p. 252.			
	e?		19	11	2							
	eS		20	40	2		0.3					
8 F	iS	06	36	28				0.2	No P, not reported felt though 13 mi. nearer epicenter than Sand Bay.			
8 S	iS	06	36	34	0.5	1	2	1	No. P reported felt at Sand Bay before operator located record.			
9 S	iS	10	30	49				0.5	No P not felt at S. not on F.			
10 S	iS	22	19	08			0.5	0.5	no P not felt at S, Not on F.			
26 S	iP	01	23	19.3				-2	on Z only, not reported felt			
	iS			30.6			7	9	58 mi. (S-O), O::01:23:05.3			
26 F	P?	01	23	22					very doubtful.			
	iS			36.5			1		72 mi. from (S-O)			

Aleutian Volcanoes Project Finger Bay, Adak :: F

Adak - Great Sitkin Sand Bay :: S Date November 1949

	Phase	G. C. T.			Amplitude				Clear, Fog, Partly Cloudy, Rain, Snow,				
		h	m	s	T	E	N	Z	Calm, Breeze, Wind, Williwaw				
3 S	eP eI eS	01	17	02	1.2	-	0.1	-	pen. c. Chron. Small waves not on F. USC&GS- Epicenter 48 $\frac{1}{2}$ N 154 E, Kurile Is. Not felt dist. 19 $\frac{1}{2}$ degrees reaches close to above epicenter.				
8 F	iS	06	36	28	-	-	0.2	-	No P, not reported felt here though 13 mi. nearest epicenter than Sand Bay.				
8 S	iS	06	36	34	$\frac{1}{2}$	1	2	1	No P, reported felt at Sand Bay				
9 S	iS	10	30	49	-	-	0.5	-	No. p not reported felt at S.B. not on F.B. record.				
10 S	iS	22	19	08	-	-	0.5	0.5	No P not reported felt.				
26 S	iP iS O	01	23	19.3 30.6 05.3	-	-	-	-2	on Z only, not reported felt dist. 58 mi. (from S-0)				
26 F	eP? iS	01	23	22 36.5	-	-	1	-	very doubtful. dist. 72 mi. (from S-0)				

Ateutian Volcanoes Project

Finger Bay :: P



Adak - Great Sitkin

Sand Bay :: S

Date December 1949

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Time	Phase	G. C. T.			Trace Amplitude	Period			Clear, Fog, Partly Cloudy, Rain, Snow, Calm, Breeze, Wind, Williwaw pen. c. Chron.	
		h	m	s		sec.	E	N		Z
						in millimeters.				
15 F	eP	13	31	42.0	-	-	.2	.8	not felt, awakened several at Adak/ dist. 55 miles. ave. time of occurrence.	
	iS			52.6	.8		5.5	1.5		
	0			28.5						
15 S	eP	13	31	46.7					dist. 75 miles probably epicenter 15 miles east of Tanaga Volcano.	
	iP			47.2			1	1.5		
	iS		32	00.9	.6	2	6.5	9		
27 S	iP	10	53	18.8	.5		.1	6.	not felt. (P larger than S, deep?) distance 138 miles.	
	iS			43.9	.5		1.2	3.		
27 F	iP	10	53	21.1			-1.4	-0.8 1.7	dist. 147 miles.	
	iS			47.8			2	1		
28 F	eP	13	41	45.8			.3	-1.4	Felt at Finger Bay and over all Adak dist. 46 miles.	
	iP			46.6						
	iS			55.0	0.6		11	5.6		
28 S	iP	13	41	46.4			.2	-2.3 -1.5	Time off, no signal within 2 1/2 days either way dist. 44 miles.	
	iS			55.1	.7	11.4	10.8	15.		