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MASTER

ALEUTIAN SEISMIC PROGRAM
SEISMOLOGICAL BULLETIN
OCTOBER 1970

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY
ROCKVILLE, MARYLAND 20852

JANUARY 1971

PREPARED FOR THE U.S. ATOMIC ENERGY COMMISSION
NEVADA OPERATIONS OFFICE
UNDER CONTRACT AT(29-2)-746

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SEISMOLOGICAL BULLETIN

THE PURPOSE OF THIS BULLETIN IS TO COLLECT AND DISTRIBUTE PRELIMINARY DATA ACQUIRED FROM AN ALEUTIAN NETWORK OF SEISMIC STATIONS IN ORDER TO FACILITATE CURRENT STUDIES OF EARTHQUAKE OCCURRENCE IN THE ALEUTIAN ISLANDS. RECORD ARRIVAL TIMES AND AMPLITUDES ARE SCALED BY THE SPECIAL PROJECTS PARTY, LAS VEGAS, NEVADA. FINAL REDUCTION AND COLLATION OF DATA TO EVENT HYPOCENTERS AND DERIVATION OF RELATED PARAMETERS ARE PERFORMED BY THE SEISMOLOGY DIVISION, ROCKVILLE, MARYLAND. THIS COMPILATION IS PRELIMINARY AND MAY BE SUBJECT TO LATER REVISION ON THE BASIS OF CURRENT RESEARCH.

DESCRIPTION OF COLUMN HEADINGS

DATE - DAY, MONTH, AND YEAR IN GREENWICH MEAN TIME (GMT)
 STA - STATION CODE
 PHASE - NAME OF PHASE REPORTED
 I OR E INDICATES THE CHARACTER OF PHASE ARRIVAL
 C OR D IN THE FOURTH CHARACTER INDICATES DIRECTION OF FIRST MOTION
 TIME - ARRIVAL TIME OF PHASE IN HOURS, MINUTES, AND SECONDS (GMT)
 AMP - GROUND DISPLACEMENT OF PHASE IN MILLIMICRONS
 AMPLITUDES REPORTED WITH S PHASES ARE MAXIMUM SURFACE WAVE
 DISPLACEMENTS
 PER - PERIOD OF PHASE IN SECONDS
 MAG - STATION MAGNITUDE DEFINED BY
 $M6.6 = -6.4 + \log_{10}(AMP/PER) + 3.70 * \log_{10}(DIST)$
 FOR LOCATED EVENTS OF DEPTH 50 KM OR LESS AND DISTANCE
 GREATER THAN 10 KM AND LESS THAN 180 KM FROM STATION
 DIST - GREAT CIRCLE DISTANCE TO EVENT IN KILOMETERS
 AZI - STATION TO EPICENTER AZIMUTH IN DEGREES TAKEN CLOCKWISE FROM NORTH
 RES - PHASE TRAVEL TIME RESIDUAL IN SECONDS (O-C)
 REMARKS- DESCRIPTIVE INFORMATION

DESCRIPTION OF HYPOCENTER INFORMATION

HYPOCENTER DATA ARE LISTED IN CHRONOLOGICAL ORDER AND ARE FOLLOWED BY ASSOCIATED PHASE ARRIVALS

FIRST LINE DATE
 ORIGIN TIME (GMT)
 GEOGRAPHIC COORDINATES
 DEPTH OF FOCUS IN KILOMETERS
 AVERAGE BODY WAVE (MB) AND SURFACE WAVE (MS) MAGNITUDES
 TYPE OF SOLUTION
 SECOND LINE GEOGRAPHIC REGION

ALEUTIAN SEISMIC NETWORK

CODE	STATION	PERIOD OF OPERATION	LATITUDE (DEG MIN SEC)	LONGITUDE (DEG MIN SEC)	ELEVATION (METERS)
ADK	ADAK OBSERVATORY		51 53 01.4 N	176 34 49.4 W	108
AG1	AMCHITKA GEOPHONE 1	02/10/69-04/10/69	51 24 58.2 N	179 10 49.8 E	
AG3	AMCHITKA GEOPHONE 3	02/10/69-04/10/69	51 25 25.8 N	179 11 24.6 E	
AMA	AMATIGNAK ISLAND	09/10/70-	51 17 17.5 N	179 06 33.5 W	503
AME	AMCHITKA EXPERIMENTAL	01/04/69-26/05/69	51 23 12.0 N	179 15 18.0 E	
ANA	AMCHITKA NORTH A	25/08/69-25/09/69	51 37 39.8 N	178 39 22.7 E	177
		25/09/69-05/11/69	51 37 34.9 N	178 39 41.8 E	133
		05/11/69-16/07/70	51 37 39.8 N	178 39 22.7 E	177
		16/07/70-	51 37 34.9 N	178 39 41.8 E	133
ANB	AMCHITKA NORTH B	09/12/69-18/07/70	51 36 12.0 N	178 47 21.0 E	247
AND	AMCHITKA NORTH D	18/07/70-	51 33 44.4 N	178 57 12.4 E	187
ASB	AMCHITKA SOUTH B	25/05/69-	51 21 37.8 N	179 14 50.3 E	34
ASC	AMCHITKA SOUTH C	28/07/69-25/09/69	51 27 44.9 N	179 09 53.9 E	40
		25/09/69-13/07/70	51 27 41.9 N	179 07 29.9 E	36
		13/07/70-	51 27 44.9 N	179 09 53.9 E	40
ASD	AMCHITKA SOUTH D	29/05/69-06/06/69	51 22 36.0 N	179 20 30.0 E	
		06/06/69-	51 23 26.9 N	179 20 31.6 E	61
AWA	AMCHITKA WOOD-ANDERSON		51 22 28.5 N	179 15 09.6 E	
CSA	CAPE SARICHEF	22/11/70-	54 35 40.0 N	164 52 30.0 W	152
GMA	GRANITE MOUNTAIN	18/09/70-	65 25 43.0 N	161 13 55.0 W	856
LSI	LITTLE SITKIN ISLAND	16/08/69-18/09/69	51 55 10.8 N	178 32 01.8 E	145
OB3	OCEAN BOTTOM SEIS 3	30/09/69-17/10/69	50 59 00.0 N	179 21 30.0 E	-3317
OB5	OCEAN BOTTOM SEIS 5	27/09/69-17/10/69	51 19 00.0 N	178 27 30.0 E	-1234
OB6	OCEAN BOTTOM SEIS 6	26/09/69-18/10/69	51 46 30.0 N	179 06 30.0 E	-859
OB8	OCEAN BOTTOM SEIS 8	26/09/69-16/10/69	51 22 00.0 N	179 35 42.0 E	-1408
RAT	RAT ISLAND	14/10/70-	51 47 56.7 N	178 19 48.3 E	226
SHY	SHEMYA	17/11/70-	52 43 51.0 N	174 06 11.0 E	58
SSI	SEMISOPCHNOI ISLAND	13/08/69-04/11/69	51 54 52.2 N	179 37 26.4 E	335
		17/10/70-	51 53 32.8 N	179 35 17.9 E	177

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OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
01	1	6	32.04	51.68 N	178.83 E	DEPTH = 86.0 KM				FREE DEPTH SOLUTION
				RAT ISLANDS, ALEUTIAN ISLANDS						
01	ANA	EPG	01 06 44.3				16	326	-.1	
01	ANA	IPG	01 06 44.4				13	63	.1	
01	ASB	EPG	01 06 45.7				46	321	-.1	
		IS	01 06 55.8						-.0	
01	ASD	EPG	01 06 46.1	.8	.1		49	313	.1	
		IS	01 06 56.2						.0	
01	ANA	IP	02 32 32.6							
01	AND	IP C	02 32 34.8							
01	ASB	EP	02 32 36.3	2.4	.1					
		ES	02 33 4.8							
01	ASD	EP	02 32 37.7	2.0	.1					
01	2	46	16.98	51.26 N	179.48 W	DEPTH = 50.0 KM				FIXED DEPTH SOLUTION
				DELAROF ISLANDS, ALEUTIAN ISLANDS						
01	ASD	EPG	02 46 31.6	1.7	.1	1.93	83	99	.0	
		IS	02 46 42.5						.3	
01	ASB	EPG	02 46 32.4	2.3	.1	2.18	89	97	.1	
		ES	02 46 43.3						-.3	
01	ASC	IPG	02 46 33.2				97	103	-.1	
01	ANA	IP C	03 56 35.5							
		ES	03 56 39.0							
01	AND	EP	03 56 36.6							
01	ASB	EP	05 17 21.2	3.3	.1					NO S DEFINABLE.
01	ANA	IP	05 17 21.6							
01	AND	IP	05 17 21.8							
01	ASC	EP	05 17 22.1							
01	ASD	IP	05 17 22.2	3.4	.1					
01	5	59	50.26	52.06 N	178.59 E	DEPTH = 160.0 KM				FREE DEPTH SOLUTION
				RAT ISLANDS, ALEUTIAN ISLANDS						
01	ANA	IP C	06 00 12.5				48	354	.0	
01	AND	IP C	06 00 12.9				60	336	-.1	
		IS	06 00 29.6						.0	
01	ASC	IP C	06 00 14.0				77	329	.1	
01	ASB	EP	06 00 14.6	4.1	.1		90	330	-.0	
		ES	06 00 32.4						-.0	
01	ASD	IP	06 00 14.7	10.6	.1		92	326	-.0	
01	6	8	38.78	51.40 N	179.18 W	DEPTH = 0.0 KM				FIXED DEPTH SOLUTION
				DELAROF ISLANDS, ALEUTIAN ISLANDS						
01	ASD	EP	06 08 56.7	4.1	.1	2.65	103	88	-.0	
		ES	06 09 10.0						.2	
01	ASB	EP	06 08 57.7	9.3	.1	3.11	109	87	-.1	
		ES	06 09 11.4						-.2	
01	ASC	IP	06 08 58.9				115	93	.3	
01	AND	EP	06 09 .6				131	97	-.4	
01	ANA	EP	06 09 4.3				151	99	.2	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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01	6 32	7.98	51.44 N 179.85 E	DEPTH = 25.0 KM		FIXED DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
01	ASD	IPGD	06 32 15.1	3.9	.1	.95	36	78	-.1	
		IS	06 32 20.5						.0	
01	ASB	IPGC	06 32 16.1	9.4	.1	1.61	43	77	-.0	
		IS	06 32 22.0						-.0	
01	ASC	IPG	06 32 17.1				48	92	.3	
01	AND	EPG	06 32 18.9				63	102	-.2	
01	ANA	IPG	06 32 22.2				85	103	-.0	

01	ASD	IP	06 41 17.4	7.3	.1					
		ES	06 42 3.5							
01	ASB	EP	06 41 18.2	7.1	.1					
		ES	06 42 4.4							
01	ASC	IP C	06 41 19.0							
01	AND	EP	06 41 19.3							
01	ANA	EP	06 41 21.6							

01	7 19	40.39	51.51 N 178.88 E	DEPTH = 66.7 KM		FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
01	AND	EPG	07 19 50.2				8	219	-.0	
01	ANA	EPG	07 19 50.6				20	131	.0	
		ES	07 19 58.0						-.0	
01	ASC	EPG	07 19 50.7				20	284	.1	
01	ASB	EPG	07 19 51.1	1.1	.1		30	303	.0	
		ES	07 19 58.9						.0	
01	ASD	IPGC	07 19 51.3	1.5	.1		35	294	-.1	

01	9 42	28.60	46.85 N 143.64 E	DEPTH = 385.0 KM		MB = 5.0		TELESEISMIC SOLUTION		
SAKHALIN ISLAND										
01	ANA	EP	09 47 4.0				2581	272		TELESEISM
01	AND	EP	09 47 6.5				2601	272		
01	ASD	EP	09 47 7.5	11.1	.3		2629	273		
01	ASC	EP	09 47 9.7				2616	273		

01	ASD	IP C	11 07 48.1	3.4	.1					
		IS	11 08 8.1							
01	ASB	IP	11 07 49.1	5.1	.1					
		ES	11 08 9.2							
01	ASC	EP	11 07 49.6							
01	AND	EP	11 07 50.6							
01	ANA	IP	11 07 53.7							

01	12 38	40.10	51.81 N 178.31 E	DEPTH = 84.3 KM		FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
01	ANA	IPG	12 38 52.9				32	309	.1	
01	AND	IPG	12 38 53.9				52	301	-.2	
		IS	12 39 4.4						.1	
01	ASC	IPG	12 38 55.8				71	303	-.2	
01	ASB	IPG	12 38 56.6				82	308	-.0	
		ES	12 39 8.6						-.1	
01	ASD	IPGC	12 38 57.0	12.7	.1		86	304	-.0	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
01	12 43	49.68	51.64 N 179.57 E	DEPTH = 102.3 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
01	ASD	IPGC	12 44 4.6	2.4	.1		33	28	.0	
01	ASB	IPG	12 44 4.7	2.2	.1		38	35	-.1	
		ES	12 44 15.8						.0	
01	ASC	IPG	12 44 4.7				34	55	.1	
01	AND	IPG	12 44 4.9				43	78	-.1	
01	ANA	IPG	12 44 6.3				63	88	.1	
01	ASC	IP	13 38 2.5							
01	ANA	IP	13 38 2.6							
01	ASD	IP D	13 38 2.7	5.7	.1					
		E(S)	13 38 19.1							
01	14 21	36.75	51.43 N 179.27 E	DEPTH = 60.2 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
01	ASD	EPG	14 21 45.8	2.8	.1		8	319	-.0	VERY POOR
		IS	14 21 52.4						-.0	
01	ASB	EPG	14 21 45.8				8	10	-.0	DUE TO WIND
01	ASC	IPG	14 21 45.8				8	116	-.0	NOISE.
02	ASD	IP	03 38 57.8							NOISY
02	ASB	EP	03 38 59.1							NOISY
		ES	03 39 17.1							
02	5 41	3.70	6.80 S 154.99 E	DEPTH = 54.0 KM MB = 5.0			TELESEISMIC SOLUTION			
SOLOMON ISLANDS										
02	ADK	EP	05 51 25.5				7041	212		
02	5 55	40.90	62.35 N 151.57 W	DEPTH = 84.0 KM MB = 4.1			TELESEISMIC SOLUTION			
CENTRAL ALASKA										
02	GMA	EP	05 57 2.6				586	121		
02	6 15	32.80	6.82 S 154.91 E	DEPTH = 54.0 KM MB = 5.4			TELESEISMIC SOLUTION			
SOLOMON ISLANDS										
02	ADK	EP	06 25 58.1				7045	212		
		EL	06 41 54.0							
		ER	06 46 42.0							
02	9 34	27.40	52.92 N 173.15 W	DEPTH = 127.0 KM MB = 4.3			TELESEISMIC SOLUTION			
ANDREANOF ISLANDS, ALEUTIAN IS.										
02	ADK	EP	09 35 5.8				261	62		
		FS	09 35 35.6							
02	ASD	EP	09 35 39.5	1.0	.1		542	69		NOISY
02	ASB	EP	09 35 40.6				549	69		NOISY
		E(S)	09 36 34.7							
02	ASC	EP	09 35 40.8				550	70		NOISY
02	AND	E(P)	09 35 41.2				560	71		

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
02	9 47	12.21	51.71 N 179.85 E	DEPTH = 54.5 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
02	ASD	E(P)	09 47 23.5	1.1	.1		51	44	.1	
02	ASB	E(P)	09 47 23.9				57	47	-.1	
		ES	09 47 32.7						.0	
02	ASC	EP	09 47 24.1				55	60	.3	
02	AND	E(P)	09 47 24.5				64	75	-.3	
02	ANA	E(P)	09 47 27.1				83	83	.2	VERY NOISY
02	13 6	52.75	51.54 N 179.78 E	DEPTH = 62.5 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
02	ASD	IPG	13 07 3.3	5.5	.2		36	59	-.1	
		IS	13 07 11.2						.1	
02	ASB	IPG	13 07 3.9	2.1	.1		42	61	.0	
		IS	13 07 11.9						-.1	
02	ASC	IPG	13 07 4.1				44	78	.1	
02	AND	EPG	13 07 5.1				57	92	-.1	
02	ANA	EPG	13 07 7.4				78	96	.0	
02	22 33	33.81	51.27 N 178.63 E	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
02	AND	IPG	22 33 41.4				39	215	-.1	
02	ASB	E(P)	22 33 42.1	.7	.2	.23	44	257	-.0	
		ES	22 33 48.6						.4	
02	ASC	IPG	22 33 42.1				43	241	.2	
02	ASD	IPG	22 33 43.0	.6	.1	.66	51	257	-.1	
		ES	22 33 49.4						-.4	
02	ASD	IP C	22 51 33.1	6.0	.1					
		ES	22 51 45.7							
02	ASB	EP	22 51 33.8	6.5	.2					
		ES	22 51 46.8							
02	ASC	IP C	22 51 35.3							
02	AND	E(P)	22 51 38.2							
02	ANA	EP	22 51 41.2							
3	0 16	25.90	55.23 N 163.18 E	DEPTH = 31.0 KM MB = 5.2			TELESEISMIC SOLUTION			
OFF EAST COAST OF KAMCHATKA										
03	AND	IPGD	01 30 6.9							
		IS	01 30 14.1							
03	ASC	IPG	01 30 7.6							
03	ASD	IPGC	01 30 8.2	1.7	.1					
03	1 54	47.56	51.77 N 179.69 E	DEPTH = 50.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
03	ASD	EPG	01 54 58.2	5.5	.1	1.61	50	29	-.2	
03	ASC	IPG	01 54 58.7				50	47	.4	
03	ASB	IPG	01 54 58.8	5.7	.1	1.78	55	34	-.1	
		IS	01 55 7.1						-.0	
03	AND	IPG	01 54 59.0				56	66	.0	
03	ANA	IPGC	01 55 .8				73	77	-.1	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
03	2	5	12.84	51.72 N 179.32 W DEPTH = 75.0 KM			FIXED DEPTH SOLUTION			
DEAROF ISLANDS, ALEUTIAN ISLANDS										
03	ASD	IPG	02 05 30.6	2.8	.1		100	67	.0	
03	ASB	IPG	02 05 31.3	3.6	.1		107	67	-.0	
		ES	02 05 44.8						.0	
03	ASC	IPG	02 05 31.5				109	74	.0	
.....										
03	ASB	IP D	03 26 12.5	61.5	.1					LARGE EVENT.
		IS	03 26 31.2							
03	ANA	IP D	03 26 12.9							POSSIBLY OTHER
03	AND	IP C	03 26 13.2							PHASES.
03	ASD	IP D	03 26 13.3	59.9	.1					
03	ASC	IP D	03 26 13.3							
03	ADK	IP	03 26 47.3							
		ES	03 27 32.0							
.....										
03	5	44	22.40	48.36 N 146.65 E DEPTH = 472.0 KM MB = 4.1			TELESEISMIC SOLUTION			
KURILE ISLANDS										
03	ANA	IP C	05 48 32.1				2307	274		TELESEISM
03	AND	EP	05 48 33.4				2328	274		
03	ASD	EP	05 48 35.6	31.9	.4		2356	275		
.....										
03	7	5	15.30	52.64 N 165.07 W DEPTH = 33.0 KM MB = 3.6			TELESEISMIC SOLUTION			
ALEUTIAN ISLANDS REGION										
03	ASD	EP	07 07 35.3	6.2	.2		1078	76		TELE NO S.
03	ASB	IP	07 07 36.1				1085	76		
03	ASC	IP	07 07 36.7				1088	77		
.....										
03	8	12	20.80	58.36 N 150.52 W DEPTH = 25.0 KM MB = 5.0 MS = 4.7			TELESEISMIC SOLUTION			
GULF OF ALASKA										
03	GMA	EP	08 14 27.0				967	140		
.....										
03	ADK	IP D	10 37 44.6							
		IS	10 37 54.6							
.....										
03	11	57	43.41	51.71 N 179.79 E DEPTH = 86.7 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
03	ASD	IPGC	11 57 57.4	5.7	.1		48	40	-.0	AND, ANA WINDY
03	ASC	IPGC	11 57 57.6				51	57	-.0	
03	ASB	IPGC	11 57 57.8	7.7	.1		54	44	-.0	
		ES	11 58 8.3						-.0	
.....										
03	13	1	8.47	50.97 N 178.69 E DEPTH = 39.5 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
03	ASB	IPGC	13 01 19.7	3.5	.1	1.68	58	222	-.0	
		ES	13 01 27.9						-.0	
03	ASD	IPGD	13 01 20.4	2.5	.1	1.69	64	226	-.1	
03	ASC	IPG	13 01 20.7				64	212	-.2	
03	AND	IPGD	13 01 20.9				68	196	-.1	
03	ANA	IPG	13 01 21.7				73	179	.0	
.....										

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
03	AND	IP C	15 07 16.0							
03	ASB	IP	15 07 16.1							
03	ASC	IP D	15 07 16.4							
		E(S)	15 07 34.5							
03	ASD	IP C	15 07 16.8	2.4	.1					
03	ADK	IP C	16 02 53.0							
		IS	16 03 7.2							
03	ASD	EP	16 03 9.8	15.5	.2					
03	ASB	EP	16 03 10.7	18.9	.2					
		ES	16 03 47.7							
03	ASC	EP	16 03 12.0							
03	AND	EP	16 03 14.3							
03	ANA	IP	16 03 16.9							
03	ASB	IPG	17 28 13.1	9.2	.1					
		ES	17 28 19.0							
03	ASD	IPGC	17 28 13.5	6.7	.1					
03	ASC	IPG	17 28 14.8							
03	ANA	IP	20 12 49.5							
03	AND	IP	20 12 50.4							
03	ASB	IP	20 12 50.9	200.6	.2					
		ES	20 13 13.2							
03	ASC	IP	20 12 51.2							
03	ASD	IP	20 12 51.8	48.4	.1					
03	AND	IP	23 52 26.2							
03	ASC	EP	23 52 28.3							
03	ASD	EP	23 52 29.5	1.7	.1					
		ES	23 52 42.7							

.....
 04 3 37 13.75 51.55 N 178.95 E DEPTH = 76.4 KM FREE DEPTH SOLUTION
 RAT ISLANDS, ALEUTIAN ISLANDS

04	AND	EP	03 37 24.6			2	177	-.1	
04	ASC	EP	03 37 25.3			17	303	.3	
04	ASB	EP	03 37 25.5			29	316	.0	
		ES	03 37 34.0					-.0	
04	ASD	EP	03 37 25.5	4.2	.1	33	305	-.2	

04	ANA	IP	06 40 5.2						
04	AND	IP	06 40 7.5						
04	ASC	EP	06 40 9.7						
04	ASD	EP	06 40 10.8	1.8	.1				
		ES	06 40 47.7						

04	GMA	EP	06 57 3.0						
04	ASD	EP	07 39 37.0	.8	.1				
		ES	07 39 54.1						
04	ASC	EP	07 39 38.4						
04	AND	EP	07 39 40.1						

.....
 04 12 15 21.16 51.42 N 179.58 W DEPTH = 25.0 KM FIXED DEPTH SOLUTION
 DELAROF ISLANDS, ALEUTIAN ISLANDS

04	ASD	EP	12 15 33.8			75	86	-.2	SMALL AMP.
04	ASB	EP	12 15 35.1			82	85	.1	
		ES	12 15 45.0					.0	
04	ASC	EP	12 15 35.8			87	93	.0	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
04	17 54 31.98		51.20 N 179.88 W			DEPTH = 25.0 KM				FIXED DEPTH SOLUTION
DELAROF ISLANDS, ALEUTIAN ISLANDS										
04	ASD	EPG	17 54 42.2	3.2	.1	1.63	58	110	-.0	
		ES	17 54 49.7						-.0	
04	ASB	EPG	17 54 43.1				63	106	.0	
04	ASC	IPG	17 54 44.3				73	114	-.1	
04	ANA	IPG	17 54 50.4				112	115	.1	
04	ASB	IP C	20 32 39.6	5.6	.1					
		ES	20 32 55.8							
04	ASD	IP C	20 32 40.0	8.5	.1					
04	ASC	IP	20 32 40.5							
04	AND	EP	20 32 40.8							
04	ANA	EP	20 32 41.5							
04	21 14 51.30		51.58 N 178.91 E			DEPTH = 67.0 KM MB = 3.5				TELESEISMIC SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS										
04	AND	IP D	21 15 1.3				4	311	.2	OVERLOAD. FELT.
04	ANA	IP C	21 15 1.5				18	105	.0	SHORT DURATION.
04	ASC	IP D	21 15 1.9				22	308	.3	
04	ASB	IP D	21 15 2.2				34	317	-.1	
04	ASD	IP D	21 15 2.5				37	308	-.0	
04	ADK	IP C	21 15 34.8				312	266	.6	
		ES	21 16 7.6						2.0	
04	ANA	IPGD	22 02 3.4							
04	AND	IPG	22 02 4.4							
04	ASC	IPG	22 02 7.3							
		IS	22 02 14.0							
04	AND	IPGC	22 38 12.1							VERY NICE
		IS	22 38 15.0							
04	ANA	IPGC	22 38 12.3							
04	ASC	IPGC	22 38 14.2							
04	ASB	IPG	22 38 15.5							
		IS	22 38 20.8							
04	ASD	IPGC	22 38 16.1	24.9	.1					
05	14 16 37.53		51.89 N 178.13 E			DEPTH = 152.8 KM				FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS										
05	ANA	IP	14 16 58.9				47	308	.0	
		ES	14 17 14.5						.1	
05	AND	IP	14 16 59.5				67	303	-.3	
05	ASC	EP	14 17 1.2				86	304	.3	
05	ASB	E(P)	14 17 1.6	1.1	.1		97	307	-.0	
		ES	14 17 19.1						-.1	
05	ASD	EP	14 17 1.9	1.4	.1		101	304	-.0	
		ES	14 17 19.8						.1	
05	14 26 9.80		20.55 S 178.22 W			DEPTH = 545.0 KM MB = 4.7				TELESEISMIC SOLUTION
FIJI ISLANDS REGION										
05	ASB	IP C	14 36 36.6	1.7	.4		7965	178		
05	ASD	EP C	14 36 36.7	1.8	.4		7956	178		REGIONAL OR TEL
05	ASC	EP C	14 36 37.6				7976	177		
05	AND	IP C	14 36 37.9				7988	177		
05	ANA	IP C	14 36 38.5				7996	177		
05	ADK	EP	14 36 39.3				8021	182		

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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05 17 17 50.38 51.61 N 179.38 E DEPTH = 78.1 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

05	ASD	EPG	17 18 2.0	.3	.1		26	6	-.1	
		EP	17 18 2.8							
		ES	17 18 10.7						-.0	
05	AND	EP	17 18 2.2				30	80	-.1	
05	ASB	IP C	17 18 2.3	.5	.1		29	19	.0	
		EP	17 18 2.9							
		ES	17 18 11.0						.0	
05	ASC	IP C	17 18 2.3				22	43	.3	
05	ANA	IP	17 18 3.6				50	92	.0	

05 ADK IP C 17 25 8.2
IS 17 25 21.8

05 ADK IP 17 27 17.4
IS 17 27 31.3

05 17 39 9.75 51.86 N 178.68 W DEPTH = 125.0 KM FIXED DEPTH SOLUTION
DELAROF ISLANDS, ALEUTIAN ISLANDS

05	ASD	E(P)	17 39 35.8	.1	.1		147	68	.1	
		ES	17 39 54.6						-.0	
05	ASB	E(P)	17 39 36.3	.3	.1		154	68	-.1	
		ES	17 39 55.8						.0	
05	ASC	EP	17 39 36.6				155	73	.1	
05	AND	E(P)	17 39 37.3				167	78	-.4	
05	ANA	E(P)	17 39 39.9				185	81	.3	

05 ANA E(P) 18 09 38.6
05 AND E(P) 18 09 41.2
05 ASC E(P) 18 09 43.5
05 ASB E(P) 18 09 43.8
E(S) 18 10 19.9
05 ASD E(P) 18 09 44.4

EMERGENT

05 ASD EP C 18 25 25.0 18.5 .2
05 ASB IP C 18 25 25.6 21.3 .2
E(S) 18 25 59.5
05 AND E(P) 18 25 26.8
05 ASC EP 18 25 27.1
05 ANA E(P) 18 25 32.3
IP 18 25 36.0

REEVALUATE THIS

05 ASD EP C 18 28 34.3 .4 .2
E(S) 18 29 10.3
05 ASB E(P) 18 28 35.0 .6 .2
05 ASC E(P) 18 28 36.6
05 AND EP 18 28 38.5
05 ANA E(P) 18 28 41.6

05 19 7 30.40 58.08 N 156.70 W DEPTH = 127.0 KM MB = 4.6 TELESEISMIC SOLUTION
ALASKA PENINSULA

05	GMA	EP	19 09 27.1				854	162		
05	ADK	EP	19 10 33.2				1442	54		
05	ASD	EP	19 11 2.4	11.8	.3		1704	55		
05	ASB	E(P)	19 11 2.7	38.3	.3		1711	55		
05	ASC	E(P)	19 11 3.3				1709	55		
05	AND	EP	19 11 3.7				1715	55		

NOT A LOCAL EQ.

05 ADK IP D 20 19 31.5

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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		IS	20 19 38.2							
05	ASD	IP	20 19 50.7							
05	ASB	IP	20 19 51.5							
05	ASC	IP	20 19 52.5							

05	23 43 17.04	51.57 N 178.86 E	DEPTH = 71.1 KM	FREE DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										

05	AND	IPGD	23 43 27.4				6	282	.0	
		IS	23 43 34.9						-.1	
05	ANA	IPG	23 43 27.6				15	112	.0	
05	ASC	IPG	23 43 28.0				24	301	.1	
05	ASB	IPG	23 43 28.5	16.4	.1		36	312	-.1	
		IS	23 43 37.0						.1	
05	ASD	IPG	23 43 28.8	15.0	.1		40	304	-.0	

05	ASD	EP	23 49 4.7	3.4	.1					
05	ASB	IP C	23 49 5.2	5.3	.1					
05	AND	EP	23 49 5.3							
05	ASC	IP C	23 49 5.5							
05	ANA	IP	23 49 6.0							

06	ANA	IP C	00 07 57.2							
06	AND	IP C	00 07 57.9							
06	ASC	EP	00 07 59.6							
06	ASB	EP	00 08 0.0	2.7	.1					
06	ASD	IP C	00 08 .2	2.7	.1					

06	ASD	EP	01 28 30.2	2.7	.1					
		IS	01 28 42.4							
06	ASB	EP	01 28 31.0							
06	ASC	IP	01 28 32.6							
		I	01 28 34.5							
06	AND	EP	01 28 36.1							

06	2 1 52.17	51.14 N 177.58 E	DEPTH = 50.0 KM	FIXED DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										

06	ANA	EPG	02 02 8.0				92	235	.1	
06	AND	IPGD	02 02 9.3				106	244	-.3	
		IS	02 02 22.3						-.0	
06	ASC	IPG	02 02 11.1				116	253	.3	
06	ASD	EPG	02 02 11.8	1.5	.1	2.55	125	259	-.1	

06	ASD	IP	06 17 1.9	12.0	.2					
		I	06 17 3.6							
		IS	06 17 15.7							
06	ASB	IP	06 17 2.8	9.5	.2					
		I	06 17 4.7							
06	ASC	IP	06 17 4.2							
06	ANA	IP	06 17 9.9							

06	ASD	IPGC	07 01 59.3							
06	ASC	IPG	07 01 59.9							
06	ASB	IPGC	07 02 .1							
		IS	07 02 3.6							

06	ANA	EP	07 42 8.9							
06	AND	IP	07 42 9.5							
06	ASC	EP D	07 42 14.4							
06	ASB	EP	07 42 14.8							
06	ASD	EP	07 42 15.8							
		I	07 42 16.9	11.8	.2					
		ES	07 42 35.2							

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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06	ASD	IPGC	08 18 13.6	4.9	.1					
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		IS	08 18 16.8							
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06	ASC	IPG	08 18 14.2							
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		IS	08 18 17.9							
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06	ASB	EPG	08 18 14.4							
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06	GMA	EP	08 19 9.3							
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06	ASB	IP D	08 51 22.7	4.7	.1					
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		IS	08 51 39.5							
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06	ASD	IP D	08 51 23.1	2.9	.1					
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06	AND	IP D	08 51 25.3							
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		IS	08 51 39.8							
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06	ANA	IP C	08 51 26.6							
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06	ASD	EP	13 30 4.4							
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		E(S)	13 30 33.7							
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06	ASB	EP	13 30 5.3							
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06	ASC	EP	13 30 6.0							
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06	ANA	EP	13 30 11.2							
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06	ADK	IP	14 48 42.9							
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		IS	14 48 52.9							
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06	ASD	EP	14 49 8.4							
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		I	14 49 14.1							
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		I(S)	14 49 50.9							
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06	ASB	EP	14 49 9.3							
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06	ASC	EP	14 49 10.6							
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06	AND	EP	14 49 12.2							
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06	ANA	EP	14 49 15.9							
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06	ASD	EP	14 56 14.7							
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		E(S)	14 56 40.4							
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06	ASB	EP	14 56 15.9							
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06	ASC	EP	14 56 17.0							
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06	ANA	EP	14 56 21.2							
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06	17	4	21.27	51.26 N	179.85 W	DEPTH = 25.0 KM	FIXED DEPTH SOLUTION			
DELAPOF ISLANDS, ALEUTIAN ISLANDS										

06	ASD	IPGD	17 04 31.5	2.0	.1	1.42	58	103	-.1	
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06	ASB	IPGD	17 04 32.5	3.4	.1	1.82	64	100	.0	
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		ES	17 04 40.6						-.0	
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06	ASC	IPGD	17 04 33.7				72	108	.0	
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06	18	19	45.15	51.27 N	179.74 W	DEPTH = 50.0 KM	FIXED DEPTH SOLUTION			
DELAPOF ISLANDS, ALEUTIAN ISLANDS										

06	ASD	IP D	18 19 57.5	3.9	.1	1.90	65	100	-.1	
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		IS	18 20 6.5						-.2	
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06	ASB	IP	18 19 58.4	3.2	.1	1.96	71	98	.0	
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		IS	18 20 8.2						.2	
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06	ASC	IP C	18 19 59.4				79	105	.1	
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06	19	46	30.34	51.62 N	179.86 E	DEPTH = 194.0 KM	FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										

06	ASD	IP	19 46 56.5	2.4	.1		45	54	-.0	
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		IS	19 47 15.6						-.0	
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06	ASB	IP C	19 46 56.7	3.7	.1		51	56	-.0	
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06	ASC	IP C	19 46 56.7				51	70	-.0	
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OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
06	21	2	24.93	51.17 N 179.98 E DEPTH = 45.3 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
06	ASD	IPGD	21 02 35.5	2.0	.1	1.18	50	117	.0	
		IS	21 02 43.2						.0	
06	ASB	EPG	21 02 36.1				55	112	.0	
06	ASC	IPGD	21 02 37.3				65	119	.0	
.....										
.....										
07	0	17	7.10	51.50 N 179.96 W DEPTH = 32.0 KM			FREE DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
07	ASD	IPGC	00 17 20.5	4.8	.1		51	74	-.3	
		IS	00 17 30.7						-.0	
07	ASB	IPGD	00 17 21.4	4.2	.1		57	74	.1	
07	ASC	IPGD	00 17 21.8				61	86	.2	
07	AND	IPGC	00 17 22.9				76	95	.0	
07	ANA	IP D	00 17 24.8				97	98	-.1	
.....										
07	ANA	IP	02 27 59.2							
		IS	02 28 18.6							
07	AND	IP	02 28 2.5							
07	ASC	IP	02 28 4.6							
07	ASD	EP	02 28 6.2							WIND INTERF.
		IS	02 28 31.7							
07	ASD	IPGC	05 17 38.4	10.6	.1					
07	ASB	IPGD	05 17 39.2	6.2	.1					
		ES	05 17 50.9							
07	ASC	IPGC	05 17 40.7							
07	AND	IPG	05 17 43.0							
.....										
07	5	54	24.27	51.40 N 179.72 E DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
07	ASD	IPGD	05 54 30.6				27	85	.3	
		I	05 54 31.7	31.5	.1	1.37				
07	ASB	IPGD	05 54 30.7	17.3	.1	1.47	33	83	-.4	
		IS	05 54 36.2						.1	
07	ASC	IPGC	05 54 32.2				39	100	.3	
07	AND	IPG	05 54 34.2				56	109	-.1	
07	ANA	IP D	05 54 37.4				78	109	-.1	
.....										
07	ADK	EP	08 11 22.5							
		ES	08 11 38.3							
07	ASD	EP	08 11 25.3	2.5	.1					
		IS	08 11 45.6							
07	ASB	IP	08 11 26.6							
07	ASC	IP	08 11 27.4							
07	AND	IP	08 11 28.6							
07	ANA	IP	08 11 33.0							
.....										
07	ASD	EP	09 36 23.6							NO S VISIBLE.
07	ASB	IP	09 36 25.0							
07	ASC	IP	09 36 25.8							
.....										
07	10	28	48.61	51.19 N 179.75 W DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
07	ASD	EPG	10 28 59.9	1.4	.1	1.48	66	108	-.2	
		IS	10 29 8.5						.0	
07	ASB	EPG	10 29 1.1				72	105	.1	
07	ASC	IPGD	10 29 2.4				81	111	.1	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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07	12	6	42.97	51.01 N	179.12 W	DEPTH = 0.0 KM	FIXED DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
07	ASD	EP	12 07 2.7	6.0	.1	3.00	115	110	-.1	
		ES	12 07 17.4						.2	
07	ASB	EP	12 07 3.5				121	108	-.1	
07	ASC	IP D	12 07 5.1				130	112	.0	
07	AND	EP	12 07 7.9				148	114	.1	
07	ANA	EP	12 07 10.9				169	113	-.1	
07	ADK	EP	12 07 16.1				202	242	.2	
		ES	12 07 39.7						-.2	

07	16	1	10.30	50.50 N	177.66 E	DEPTH = 41.0 KM	MB = 4.9	TELESEISMIC SOLUTION		
RAT ISLANDS, ALEUTIAN ISLANDS										
07	ADK	IP C	16 02 8.3				430	251	.6	
		IS	16 02 51.4						1.7	
07	ADK	IP C	17 13 29.2							
		IS	17 13 40.6							
07	ASD	IP	20 17 20.9	2.5	.1					
		I(S)	20 17 35.9							
07	ASB	IP	20 17 22.0							
07	ASC	EP	20 17 23.0							
07	AND	IP	20 17 25.7							

07	21	6	37.02	50.46 N	177.73 E	DEPTH = 25.0 KM	FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
07	ANA	IP C	21 07 .4				145	207	.0	
07	ASB	IP D	21 07 .6				146	227	.1	
		IS	21 07 17.6						.0	
07	AND	IP C	21 07 .9				150	215	-.1	
07	ASC	EP	21 07 1.2				150	223	.1	
07	ASD	IP C	21 07 1.3	2.0	.1	2.97	152	229	-.1	
08	AND	IP	00 53 35.9							
08	ANA	IP	00 53 35.9							
08	ASB	IP C	00 53 37.2							
08	ASC	IP C	00 53 37.7							
08	ASD	EP	00 53 37.9							

08	1	43	30.40	47.93 N	146.75 E	DEPTH = 490.0 KM	MB = 4.6	TELESEISMIC SOLUTION		
KURILE ISLANDS										
08	ANA	IP	01 47 37.3				2318	272	TELESEISMIC.	
08	AND	IP	01 47 39.1				2339	273		
08	ASC	EP	01 47 40.3				2354	273		
08	ASB	EP	01 47 40.6				2360	274		
08	ASD	EP	01 47 41.0				2367	274		

08	4	53	21.80	53.83 N	160.45 E	DEPTH = 53.0 KM	MB = 5.6	TELESEISMIC SOLUTION		
NEAR EAST COAST OF KAMCHATKA										
08	ANA	IP D	04 55 59.8				1252	288	REGIONAL	
		ES	04 58 1.5							
08	AND	IP C	04 56 2.6				1274	289		

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS	
. 08	ASC	IP C	04 56 5.0				1291	289			
. 08	ASB	EP	04 56 5.7				1300	290			
. 08	ASD	EP	04 56 6.0	11.1	.2		1306	289			
. 08	ADK	EP	04 56 35.4				1557	287			
.....											
. 08	6 59 10.60	21.63 S 179.05 W DEPTH = 577.0 KM MB = 5.0					TELESEISMIC SOLUTION				
FIJI ISLANDS REGION											
. 08	ASD	EP	07 09 41.0				8084	178		TELESEISMIC	
. 08	ASB	EP	07 09 41.0	14.4	.4		8082	178			
. 08	ASC	EP	07 09 42.0				8094	178			
. 08	AND	EP	07 09 42.3				8105	178			
. 08	ANA	EP	07 09 42.7				8113	178			
. 08	ADK	IP	07 09 43.9				8142	182			
.....											
. 08	12 3 44.57	51.29 N 178.63 E DEPTH = 26.1 KM					FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS											
. 08	ANA	EPG	12 03 52.0				37	184	-.1		
. 08	AND	EPG	12 03 52.1				38	217	-.0		
. 08	ASC	IPG	12 03 52.9				42	243	.2		
. 08	ASB	EPG	12 03 53.0				44	260	.1		
		IS	12 03 59.0						-.0		
. 08	ASD	EPG	12 03 53.7				51	259	-.2		
		IS	12 04 .6						-.1		
.....											
. 08	ASB	EP	12 48 45.4								
. 08	ASD	EP	12 48 45.9	1.1	.1						
		ES	12 49 3.5								
. 08	ASC	EP	12 48 46.5								
. 08	AND	EP	12 48 47.2								
. 08	ANA	IP D	12 48 48.0								
.....											
. 08	13 2 4.70	50.45 N 176.20 W DEPTH = 38.0 KM MB = 5.1					TELESEISMIC SOLUTION				
ANDREANOF ISLANDS, ALEUTIAN IS.											
. 08	ADK	IP C	13 02 28.0				162	170	-1.3		
		I	13 02 35.8								
		IS	13 02 46.5						-.8		
. 08	ASD	IP D	13 02 48.8				330	107	-1.2		
. 08	ASB	IP D	13 02 49.5				336	106	-1.2		
		IS	13 03 23.7						-.6		
. 08	ASC	IP C	13 02 50.9				344	107	-.9		
. 08	AND	IP C	13 02 53.0				362	108	-.9		
. 08	ANA	IP C	13 02 55.7				383	108	-.9		
.....											
. 08	GMA	EP	13 27 19.8								
.....											
. 08	15 9 16.70	51.81 N 178.84 W DEPTH = 150.0 KM					FIXED DEPTH SOLUTION				
DELAROF ISLANDS, ALEUTIAN ISLANDS											
. 08	ASD	IP	15 09 43.5	4.9	.1		135	69	-.0		
		ES	15 10 3.1						-.0		
. 08	ASB	EP	15 09 44.1	5.3	.1		142	69	-.0		
. 08	ASC	IP C	15 09 44.4				143	74	.1		
. 08	AND	IP	15 09 45.2				155	79	-.1		
. 08	ANA	IP D	15 09 47.2				174	82	.1		
.....											
. 08	ADK	IP	17 40 37.2								
		IS	17 40 58.4								

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
08	ASD	EP	17 41 11.8	5.2	.1					
		E(S)	17 42 5.1							
08	ASB	EP	17 41 12.8	11.0	.2					
08	ASC	IP C	17 41 13.4							
08	AND	EP	17 41 15.0							
08	ANA	EP	17 41 17.3							

08 21 2 .06 51.73 N 179.39 E DEPTH = 73.2 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

08	AND	IPGC	21 02 11.7				35	59	-.1
08	ASC	IPGD	21 02 11.7				33	28	.0
08	ASD	IPGD	21 02 12.0	122.6	.1		39	5	-.0
		IS	21 02 20.8						.1
08	ASB	IPGC	21 02 12.2	164.3	.1		42	14	-.0
		IS	21 02 21.0						-.1
08	ANA	IPGD	21 02 13.0				52	77	.0

08	ASD	IPGD	22 43 1.4	2.9	.1				
08	ASB	IPG	22 43 2.3	6.7	.1				
		IS	22 43 5.8						
08	ASC	IPG	22 43 2.6						

08 23 36 9.70 43.80 N 147.43 E DEPTH = 15.0 KM MB = 5.8 MS = 5.6 TELESEISMIC SOLUTION
KURIL ISLANDS

08	ADK	EP	23 41 37.8				2809	266	
		ES	23 46 0.0						
		ER	23 48 25.0						

09	ASD	IPGD	06 33 17.3	2.2	.1				
09	ASB	IPGD	06 33 18.4	2.7	.1				
		IS	06 33 23.4						
09	ASC	IPGC	06 33 19.5						

09 8 53 5.50 49.96 N 173.86 W DEPTH = 60.0 KM MB = 3.7 TELESEISMIC SOLUTION
ANDREANOF ISLANDS, ALEUTIAN IS.

09	ADK	IP	08 53 43.8				287	137	
		IS	08 54 11.8						
09	AMA	IP C	08 53 59.5				400	110	S VERY EMERGENT
		E(S)	08 54 34.7						
09	ASD	EP	08 54 13.3				506	106	
		I	08 54 13.7	2.7	.1				
		I	08 54 15.3						
09	ASB	EP	08 54 14.5				512	105	
09	AND	EP	08 54 17.7				538	107	
09	ANA	EP	08 54 20.5				559	106	

09 9 35 48.01 51.37 N 178.76 E DEPTH = 39.2 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

09	AND	IPGC	09 35 55.4				25	212	-.1
09	ANA	EPG	09 35 55.9				30	166	.0
09	ASC	IPGC	09 35 56.1				30	250	.2
09	ASB	IPGC	09 35 56.3	7.7	.1	1.13	34	272	.0
		ES	09 36 2.3						-.0
09	ASD	IPGC	09 35 56.9	9.9	.1	1.53	40	269	-.1

09	ADK	EP	10 49 8.4						
		ES	10 49 37.0						

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
09	AMA	EP	10 49 20.3							VERY EMERGENT.
		IS	10 49 59.1							
09	ASD	EP	10 49 38.5							
09	AMA	IP D	10 52 56.0							COMPLICATED.
		I(S)	10 53 2.3							
09	ADK	IP	10 53 8.1							
		IS	10 53 23.9							
09	ASD	IP C	10 53 10.0							SHOULD BE
		I	10 53 11.1	4.3	.1					
		IS	10 53 29.6							
09	ASB	EP	10 53 11.6							REEXAMINED.
		I	10 53 13.6	15.2	.2					
		ES	10 53 31.6							
09	ASC	EP	10 53 12.4							
09	AND	EP	10 53 14.5							
09	ANA	EP	10 53 17.9							
09	AMA	IP	10 55 56.3							
		I	10 56 2.6							
		I	10 56 6.7							
09	ASD	EP	10 56 10.4							
		ES	10 56 33.6							

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09	11 7 20.20	51.38 N 178.42 W DEPTH = 41.0 KM MB = 5.2					TELESEISMIC SOLUTION			
DEAROF ISLANDS, ALEUTIAN ISLANDS										
09	AMA	IP D	11 07 29.7			49	78	-0.7		
		I(S)	11 07 42.8					4.9		
09	ADK	IP C	11 07 41.7			139	247	0.0		FELT ML 4.9
		IS	11 07 57.8					0.5		
09	ASD	IP D	11 07 43.4			156	89	-0.3		
09	ASB	IPND	11 07 44.2			162	88	-0.4		OVERLOADED
		IPG	11 07 45.8							
09	ASC	IP C	11 07 45.5			168	92	0.2		
09	AND	EP	11 07 47.5			183	95	0.3		
09	ANA	IP C	11 07 50.5			204	97	0.8		
09	GMA	EP	11 11 16.7			1853	220	3.5		
.....										

09	AMA	IP C	11 16 15.6							LARGE AMP. AT
		I(S)	11 16 25.2							
09	ASD	EP	11 16 28.3							AMA RELATIVE
09	ASC	IP C	11 16 28.7							TO AMCHITKA.
09	AMA	IP	11 35 29.7							SMALL
		IS	11 35 39.9							
09	AMA	IP	11 53 51.9							
		IS	11 53 59.5							
09	AMA	IP	12 06 .1							
		IS	12 06 8.0							
09	AMA	EPG	13 06 16.8							
		IS	13 06 23.1							
09	ASD	EP	13 06 32.6	1.0	.1					
		ES	13 06 50.8							
09	ASB	EP	13 06 33.3	1.8	.1					
09	ASC	EP	13 06 34.5							

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09	13 23 13.20	51.66 N 177.73 E DEPTH = 75.0 KM					FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
09	ANA	IPG	13 23 27.3			64	274	-0.0		
		IS	13 23 37.6					-0.0		
09	AND	IPG	13 23 29.3			85	278	-0.0		
.....										

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
09	ASC	EPG	13 23 31.2				101	283	.1	
09	ASB	EPG	13 23 32.0				110	288	-.0	
09	ASD	EPG	13 23 32.6				116	287	-.1	
09	AMA	EP	14 44 55.5							
		ES	14 45 9.3							
09	ASD	EP	14 44 58.3	1.7	.1					
09	ASB	EP	14 44 58.8							
09	15 35 29.40		51.53 N 178.82 E							FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
09	AND	IPGC	15 35 40.0				10	252	.0	
09	ANA	IPGC	15 35 40.1				15	133	-.0	
09	ASC	IPG	15 35 40.6				25	288	.1	
09	ASB	EPG	15 35 41.1				35	303	.0	
09	ASD	EPG	15 35 41.3	1.3	.1		40	296	-.1	
		IS	15 35 50.1						-.0	
09	ADK	EP	17 17 10.6							
		ES	17 17 34.7							
09	AMA	EP	17 17 24.0							VERY EMERGENT.
		IS	17 17 39.5							
09	ASD	EP	17 17 37.6							
09	ASB	EP	17 17 38.4							
09	AMA	IP	17 19 18.3							
		IS	17 19 30.3							
09	ASD	EP	17 19 32.4							
09	ASB	EP	17 19 33.9							
09	ASC	EP	17 19 35.5							
09	17 24 57.12		51.17 N 179.13 E							FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
09	ASB	IPGC	17 25 4.6				23	201	-.0	
		IS	17 25 10.1						.0	
09	ASD	IPG	17 25 5.0	21.7	.1	1.24	27	212	-.0	
09	ASC	IPG	17 25 5.6				33	184	.1	
09	AND	IPG	17 25 6.8				45	164	-.1	
09	ANA	IPG	17 25 8.8				60	147	.0	
09	ASD	IPGC	18 08 52.5	3.2	.1					
		IS	18 08 56.9							
09	ASB	IPGD	18 08 53.6	4.8	.1					
		IS	18 08 58.9							
09	ASC	IPG	18 08 54.8							
09	ANA	IP C	19 25 9.0							
09	AND	EP	19 25 11.8							
09	ASC	EP	19 25 14.9							
09	ASB	EP	19 25 16.7							
		ES	19 25 31.0							
09	ASD	EP	19 25 17.2							
09	ANA	IP C	19 26 27.4							
09	ASC	EP	19 26 33.3							
09	ASB	EP	19 26 34.8							
		ES	19 26 49.4							
09	ASD	EP	19 26 35.5	2.7	.2					
09	ASD	IP C	22 45 19.2	4.1	.1					
		E(S)	22 45 33.8							
09	ASB	IP	22 45 19.8	2.7	.1					

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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09	ASC	EP	22 45 21.3							
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09	AMA	IP	23 37 26.3							
		IS	23 37 29.5							

LARGE AMP.

10	0 16 49.10	50.18 N 178.59 W	DEPTH = 33.0 KM	MR = 4.6	TELESEISMIC SOLUTION					
DELAROF ISLANDS, ALEUTIAN ISLANDS										
10	ASD	IP D	00 17 17.5	189.6	.2		197	132	-1.0	
10	ASB	IP D	00 17 17.8	265.4	.2		201	130	-1.2	
		IS	00 17 40.2						-.6	
10	ASC	IP C	00 17 19.5				213	131	-.9	
10	AND	IP	00 17 21.4				231	131	-1.3	
10	ADK	EP C	00 17 23.2				236	217	-.1	
		ES	00 17 48.9						.7	
10	ANA	IP	00 17 24.2				251	129	-1.0	
10	GMA	EP	00 20 56.2				1980	219	-2.3	

10	1 0 56.30	51.62 N 179.99 W	DEPTH = 25.0 KM	FIXED DEPTH SOLUTION						
DELAROF ISLANDS, ALEUTIAN ISLANDS										
10	ASD	IPGC	01 01 6.0	108.1	.1	3.03	54	60	.0	
10	ASC	IPGD	01 01 6.9				61	73	-.2	
10	ASB	IPGC	01 01 7.1	85.2	.1	3.12	60	61	.2	
		IS	01 01 14.7						.0	
10	AND	IPGC	01 01 8.1				73	85	-.8	
10	ANA	IPGC	01 01 12.5				93	90	.7	

10	ASD	IP D	03 20 36.5	36.1	.1					
		IS	03 20 49.4							
10	ASC	IP	03 20 36.6							
10	AND	IP	03 20 36.6							
10	ASB	IP	03 20 36.8	72.1	.1					
10	ANA	IP	03 20 37.4							
10	AMA	EP	03 20 37.7							

10	3 29 20.37	51.16 N 178.65 E	DEPTH = 37.9 KM	FREE DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										
10	ASB	IPG	03 29 30.1	9.2	.1	1.77	48	242	-.0	
		IS	03 29 37.2						-.0	
10	AND	IPG	03 29 30.3				50	206	-.1	
10	ASC	IPG	03 29 30.5				49	227	.1	
10	ANA	IPG	03 29 30.7				52	181	.0	
10	ASD	EP	03 29 30.9				54	244	-.1	
		I	03 29 31.6	2.7	.1	1.44				

10	ASD	IP D	04 04 21.7	2.9	.1					
10	ASB	IP C	04 04 21.8	4.4	.1					
10	ASC	IP C	04 04 21.9							
10	ANA	IP D	04 04 22.4							

10	GMA	EP	09 13 17.5							
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10	ADK	EP	09 17 54.0							
		ES	09 33 42.0							
		EL	09 47 22.0							

10	AMA	IPGC	09 32 28.4							
10	ASD	IPGD	09 32 34.2	53.2	.1					
10	ASB	IPGD	09 32 35.1	59.3	.1					
		IS	09 32 45.5							
10	ASC	IPGC	09 32 36.4							

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
10	AND	EPG	09 32 38.9							
10	ANA	EPG	09 32 42.3							
10	ASB	IP C	10 18 28.4	8.4	.1					
		IS	10 18 43.2							
10	ASD	IP C	10 18 29.2	4.2	.1					
10	ASC	EP	10 18 29.5							
10	AMA	IP C	10 18 35.1							
		IS	10 18 55.5							

10 10 30 29.80 16.41 N 100.42 W DEPTH = 33.0 KM MB = 4.9 TELESEISMIC SOLUTION
NEAR COAST OF GUERRERO, MEXICO

10 ADK EP 10 41 31.0 7643 90

VERY LARGE AMP.

10	AMA	IP D	11 36 21.5							
		IS	11 36 33.6							
10	ADK	EP C	11 36 27.0							
		ES	11 36 42.5							
10	ASD	IP	11 36 35.4							
10	ASB	EP	11 36 36.1							
		ES	11 37 3.4							
10	ASC	IP	11 36 37.5							
10	AND	IP	11 36 39.7							
10	ANA	IP	11 36 42.8							

10	ASB	IP D	12 26 33.5	4.5	.1					
		ES	12 26 45.5							
10	ASD	EP	12 26 33.8	3.1	.1					
10	AND	IP C	12 26 34.0							

10 16 59 54.07 51.47 N 179.34 E DEPTH = 59.6 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

10	ASB	IPG	17 00 3.1			14	27	-0.1		
		ES	17 00 9.9					0.0		
10	ASD	IPG	17 00 3.2	13.4	.1	11	359	.1		
10	ASC	IPG	17 00 3.2			12	85	.1		
10	AND	IPG	17 00 3.8			29	110	-0.1		
10	ANA	IPG	17 00 5.7			59	110	.1		

10 18 8 30.00 51.75 N 179.12 E DEPTH = 118.9 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

10	AND	IPG	18 08 46.7			24	29	.2		
10	ASC	IPG	18 08 46.7			32	355	-0.1		
10	ANA	IPG	18 08 46.8			35	66	-0.1		
10	ASD	IPGC	18 08 47.2	27.3	.1	44	340	-0.1		
10	ASB	IPGC	18 08 47.4	14.8	.1	44	349	.1		
		ES	18 08 59.9					-0.0		

10 21 59 42.90 31.90 S 177.93 W DEPTH = 33.0 KM MB = 5.9 MS = 6.2 TELESEISMIC SOLUTION
KERMADEC ISLANDS REGION

10 ADK EP 22 12 13.1 9277 181
EL 22 38 .6

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
11	0	31	12.81	51.36 N	178.84 E	DEPTH = 40.4 KM				FREE DEPTH SOLUTION
				RAT ISLANDS, ALEUTIAN ISLANDS						
11	AND	IPGC	00 31 20.2				24	200	-.1	
		IS	00 31 25.8						-.0	
11	ASC	IPG	00 31 20.7				25	244	.2	
11	ASR	IPGC	00 31 20.7	4.8	.1	.67	29	270	-.0	
11	ANA	IPG	00 31 21.1				32	158	.0	
11	ASD	IPG	00 31 21.3	6.9	.1	1.15	35	267	-.1	
11	AMA	IPG	01 55 25.2							ASD,ASB VERY
		IS	01 55 31.9							
11	ASD	EP	01 55 41.2							EMERGENT.
11	ASB	EP	01 55 43.0							
11	2	19	26.56	51.52 N	179.96 W	DEPTH = 67.7 KM				FREE DEPTH SOLUTION
				DELAROF ISLANDS, ALEUTIAN ISLANDS						
11	ASD	IPGD	02 19 38.9	5.9	.1		51	72	-.0	
		ES	02 19 47.9						.0	
11	ASR	IPG	02 19 39.5				58	72	-.0	
11	ASC	IPG	02 19 39.8				61	84	-.0	
11	3	16	49.60	31.81 S	178.13 W	DEPTH = 33.0 KM MB = 5.6 MS = 6.3 TELESEISMIC SOLUTION				
				KERMADEC ISLANDS REGION						
11	ADK	EP	03 29 15.7				9267	181		
		ES	03 39 42.0							
		EL	03 51 23.0							
11	5	48	46.45	51.61 N	179.69 W	DEPTH = 87.2 KM				FREE DEPTH SOLUTION
				DELAROF ISLANDS, ALEUTIAN ISLANDS						
11	ASD	EPG	05 49 2.3	1.3	.1		72	68	-.0	
11	ASR	IPGC	05 49 2.9	3.4	.1		79	69	-.0	
		IS	05 49 14.9						-.0	
11	ASC	IPGD	05 49 3.1				81	78	.0	
11	AMA	IP	08 49 35.3							ASD,ASB VERY
		I	08 49 41.1							
		IS	08 49 46.5							
11	ASD	EP	08 49 49.9	3.2	.1					EMERGENT.
		ES	08 50 12.9							
11	ASB	EP	08 49 50.9							
11	9	39	17.58	51.10 N	178.97 E	DEPTH = 14.8 KM				FREE DEPTH SOLUTION
				RAT ISLANDS, ALEUTIAN ISLANDS						
11	ASR	IPGC	09 39 24.2	6.0	.1	1.10	35	214	.0	
		IS	09 39 28.9						-.1	
11	ASD	IPGC	09 39 24.9	3.8	.1	1.13	41	220	-.1	
		IS	09 39 30.4						.0	
11	ASC	EPG	09 39 25.4				43	199	.1	
11	AND	EPG	09 39 26.6				52	179	-.1	
11	ANA	EPG	09 39 28.3				63	160	.0	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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11	12 35 26.26	52.08 N 179.79 W		DEPTH = 175.0 KM		FIXED DEPTH SOLUTION				
DELAROF ISLANDS, ALEUTIAN ISLANDS										
11	ASD	IP C	12 35 52.7	1.7	.1		99	37	-.1	DEEP FOCUS
11	AMA	IP C	12 35 52.9				100	332	.0	
11	ASB	IP	12 35 53.0	3.5	.1		104	39	-.1	
		IS	12 36 12.8						.1	
11	ASC	IP D	12 35 53.0				100	46	.2	

11	13 35 44.43	51.51 N 177.30 E		DEPTH = 150.0 KM		FIXED DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
11	ANA	IP C	13 36 8.2				95	262	.1	
		IS	13 36 25.4						.0	
11	AND	EP	13 36 9.4				114	267	-.2	
11	ASB	EP	13 36 11.3	1.8	.1		136	278	-.1	
11	ASD	EP	13 36 12.0	1.0	.1		142	277	.1	

11	AMA	IP C	14 19 10.1							
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11	14 25 41.02	51.39 N 179.89 E		DEPTH = 7.8 KM		FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
11	ASD	IPGD	14 25 48.3	13.0	.1	1.56	38	88	.2	
11	ASB	IPGC	14 25 49.0	7.6	.1	1.59	45	86	-.3	
		ES	14 25 55.1						-.2	
11	ASC	IPG	14 25 50.5				51	99	.1	
11	AND	EPG	14 25 53.0				68	107	.1	
11	AMA	IPGD	14 25 53.0				70	279	-.3	
		IS	14 26 2.7						.4	
11	ANA	IPG	14 25 56.0				89	107	-.2	

11	AMA	IPGD	14 39 41.9							
		I(S)	14 39 49.5							
11	ASD	EP	14 39 55.9	1.7	.1					
11	ASC	EP	14 39 57.9							
11	ASB	EP	14 39 58.3							
11	AND	EP	14 40 2.0							
11	ANA	EP	14 40 4.1							

11	16 8 29.75	51.20 N 178.59 E		DEPTH = 38.7 KM		FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
11	ANA	IPG	16 08 39.6				48	186	-.0	
11	AND	IPG	16 08 39.6				48	212	.0	
11	ASB	IPG	16 08 39.8	3.7	.1	1.42	49	249	.1	
		ES	16 08 47.0						-.0	
11	ASC	IPG	16 08 39.9				50	234	.1	
11	ASD	EPG	16 08 40.5				56	249	-.1	

11	AMA	IP	16 29 19.1							
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11	16 59 20.54	51.40 N 179.96 W		DEPTH = 73.2 KM		FREE DEPTH SOLUTION				
DELAROF ISLANDS, ALEUTIAN ISLANDS										
11	ASB	IP D	16 59 33.7	5.6	.1		55	85	-.0	
		ES	16 59 43.3						-.0	
11	ASC	IP C	16 59 34.2				61	96	-.0	
11	AMA	EP	16 59 34.2				61	283	-.0	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
11	ASB	IP D	16 59 48.1	2.9	.1					
		ES	17 00 5.5							
11	ASD	IP D	16 59 48.9	2.7	.1					
11	AMA	IP C	19 38 9.0							
		ES	19 38 53.6							
11	ASD	EP	19 38 22.7							
11	ASB	EP	19 38 23.5							
11	ASC	EP	19 38 24.8							
11	ANA	IP	19 50 11.5							
11	AND	IP	19 50 13.3							
11	ASC	EP	19 50 14.8							
11	ASB	IP D	19 50 14.8							
		ES	19 50 44.4							
11	ASD	IP D	19 50 15.7	5.6	.1					
		IS	19 50 46.1							
.....										
11	20 53 24.62	51.56 N 179.71 E DEPTH = 61.0 KM							FREE DEPTH SOLUTION	
		RAT ISLANDS, ALEUTIAN ISLANDS								
11	ASD	IPGC	20 53 34.8	5.0	.1		33	51	-.1	
11	ASB	IPG	20 53 35.4	4.7	.1		39	55	.0	
		IS	20 53 43.2						-.0	
11	ASC	IPGC	20 53 35.6				40	74	.2	
11	AND	IPGD	20 53 36.4				53	90	-.1	
11	ANA	IPGD	20 53 38.6				73	95	.0	
.....										
11	AMA	EP	21 53 47.9							
11	ASD	EP	21 53 58.0	1.4	.1					
11	ASB	EP	21 53 58.8							
11	ASC	EP	21 53 59.1							
11	AMA	IPGD	23 20 52.2							
		IS	23 20 57.3							
11	ASD	IP	23 21 4.4	2.0	.1					VERY EMERGENT
		IS	23 21 18.1							
11	ASC	EP	23 21 5.4							
.....										
11	23 34 18.65	51.40 N 179.24 E DEPTH = 38.6 KM							FREE DEPTH SOLUTION	
		RAT ISLANDS, ALEUTIAN ISLANDS								
11	ASB	IPG	23 34 25.0	75.2	.1		5	351	.1	
		IS	23 34 29.1						-.4	
11	ASD	IPG	23 34 25.1				8	292	.1	
11	ASC	IPG	23 34 25.2				8	143	.2	
11	AND	IPG	23 34 26.0				26	132	-.2	
11	ANA	IPG	23 34 28.4				47	122	.0	
11	AMA	EP	23 34 37.4				116	277	-.1	
.....										
12	ANA	IPGC	00 46 37.0							
		IS	00 46 45.5							
12	ASB	IPGC	00 46 39.7	3.0	.1					
12	ASC	EPG	00 46 39.8							
12	ASD	EP	00 46 40.7							
12	AMA	IP D	02 56 26.4							
		I	02 56 27.5							
.....										
12	6 46 50.49	51.55 N 177.78 E DEPTH = 50.0 KM							FIXED DEPTH SOLUTION	
		RAT ISLANDS, ALEUTIAN ISLANDS								
12	ASC	EPG	06 47 6.7				96	276	-.0	
12	ASB	IPG	06 47 7.6	3.9	.1	2.65	104	282	-.0	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
12	ASD	EPG	06 47 8.4	6.2	.2	2.64	110	281	.0	
		ES	06 47 21.4						-.0	
.....										
12	9 9 48.92		51.42 N 179.18 E	DEPTH = 20.4 KM			FREE DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
12	ASC	IPGC	09 09 52.5				5	165	.0	
12	ASB	IPGC	09 09 52.6	4.0	.1		7	324	.0	
12	ASD	IPGC	09 09 52.9	2.5	.1	-1.05	12	291	.0	
		IS	09 09 55.8						.0	
.....										
12	9 33 36.60		42.75 N 131.03 E	DEPTH = 555.0 KM MB = 5.2			TELESEISMIC SOLUTION			
			E. RUSSIA-N.E. CHINA BORDER REG.							
12	ANA	IP	09 39 28.2				3674	274		TELESEISMIC
12	AND	IP	09 39 29.5				3694	274		
12	ASC	IP	09 39 30.5				3710	274		
12	ASB	IP	09 39 31.0				3716	274		
12	ASD	IP	09 39 31.1				3723	274		
12	AMA	IP	09 39 38.9				3831	276		
12	ADK	IP D	09 39 50.4				3999	276		
.....										
12	AMA	IPGC	14 39 3.4							
		I(S)	14 39 7.2							
12	ASD	IPG	14 39 13.7	1.8	.1					
12	ASB	IPG	14 39 15.0	2.7	.1					
		IS	14 39 27.8							
12	ASC	IP	14 39 15.8							
.....										
12	18 4 36.40		51.86 N 175.38 W	DEPTH = 68.0 KM MB = 4.2			TELESEISMIC SOLUTION			
			ANDREANOF ISLANDS, ALEUTIAN IS.							
12	ADK	IP D	18 04 51.9				83	92	.1	
		IS	18 05 4.5						1.4	
12	AMA	IP	18 05 13.6				266	75	-.1	
		I	18 05 16.3							
12	ASD	IP	18 05 26.9	5.2	.1		369	80	.6	
12	ASB	IP	18 05 28.1				376	79	1.0	
		I(S)	18 06 15.1						10.9	
12	ASC	IP	18 05 28.7				379	81	1.1	
.....										
12	18 25 47.92		51.63 N 178.06 E	DEPTH = 130.8 KM			FREE DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
12	ANA	IP	18 26 6.4				41	270	-.1	
12	ASC	IP	18 26 8.7				78	284	.2	
12	ASB	IP	18 26 9.2	6.9	.1		87	290	.1	
12	ASD	IP	18 26 9.3	6.4	.1		93	288	-.2	
		IS	18 26 25.3						-.0	
.....										
13	AMA	IPGD	03 48 2.0							
13	ASD	IPG	03 48 9.9	5.5	.1					
		IS	03 48 19.5							
13	ASB	IPGD	03 48 10.9	7.8	.1					
		IS	03 48 21.5							
13	ASC	IPG	03 48 12.1							
13	AMA	IPGD	04 04 16.1							
13	ASD	IPGD	04 04 17.1	46.5	.1					
13	ASB	IPGC	04 04 17.7	6.6	.1					

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OCT 1970	STA	PHASE	TIME (GMT)			AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
		IS	04	04	26.0							
13	ASC	IPG	04	04	19.2							
13	ANA	IPGC	04	04	24.5							
13	ASB	EP	08	07	59.9							
		IS	08	08	6.4							
13	ASD	EP	08	08	.3							
		IS	08	08	7.7							
13	10 39 28.88	51.87 N 179.11 E DEPTH = 166.4 KM						FREE DEPTH SOLUTION				
		RAT ISLANDS, ALEUTIAN ISLANDS										
13	ANA	IP D	10	39	51.6				41	48	-0.0	
13	ASC	IP	10	39	51.9				46	355	.1	
13	ASD	IP C	10	39	52.1	7.8	.1		57	344	-0.1	
13	ASB	IP	10	39	52.3	6.0	.1		58	351	.1	
		ES	10	40	9.3						-0.0	
13	ASD	IPG	11	00	33.5	2.9	.1					
		IS	11	00	39.8							
13	ASC	EPG	11	00	35.6							
13	AMA	IP	12	00	20.0							
13	ASB	IP D	12	00	20.1	4.6	.1					
		IS	12	00	37.8							
13	ASD	IP D	12	00	20.3	6.6	.1					
13	ASC	EP	12	00	21.9							
13	ASB	EP	13	54	32.2	2.7	.1					
13	ASC	EP	13	54	32.4							
13	ASD	IP C	13	54	33.0	1.7	.1					
		ES	13	54	50.6							
13	AMA	IPGD	15	40	2.3							
		IS	15	40	7.3							
13	18 53 30.00	4.06 S 143.03 E DEPTH = 120.0 KM MB = 5.7						TELESEISMIC SOLUTION				
		NEW GUINEA										
13	ADK	EP	19	04	.9				7276	225		
		E	19	04	39.7							
13	AMA	IPGC	19	20	8.9							
		IS	19	20	14.8							
13	ASC	IP	19	20	22.3							
13	ASB	EP	19	20	22.8							
13	ASD	EP	19	20	22.9	1.0	.1					
13	AMA	IPG	19	29	25.2							
13	ASC	EPG	19	29	27.1							
13	ASB	IPGD	19	29	27.3	3.7	.1					
13	ASD	IPGC	19	29	28.2	1.7	.1					
		ES	19	29	41.4							
13	20 32 3.04	51.17 N 178.36 E DEPTH = 35.8 KM						FREE DEPTH SOLUTION				
		RAT ISLANDS, ALEUTIAN ISLANDS										
13	ANA	IPGC	20	32	13.6				55	202	-0.0	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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14	ANA	IPG	00 13 52.2							
14	AND	IPG	00 13 53.8							
14	ASC	EPG	00 13 56.0							
14	ASB	EPG	00 13 57.5	4.0	.1					
14	ASD	EPG	00 13 58.0							
		IS	00 14 10.3							

.....
 14 1 20 34.26 51.49 N 178.57 E DEPTH = 25.0 KM FIXED DEPTH SOLUTION
 RAT ISLANDS, ALEUTIAN ISLANDS

14	ANA	IPGD	01 20 39.2				16	201	-.0	
14	AND	IPG	01 20 40.4				27	253	.0	
		IS	01 20 44.8						-.1	
14	ASC	IPGC	01 20 42.3				41	274	.1	
14	ASB	IPGD	01 20 43.1	2.2	.1	1.19	49	287	-.1	
14	ASD	IPG	01 20 44.1	2.0	.1	1.32	55	283	.0	

14	ASB	IP	01 46 25.3							
		ES	01 46 41.6							
14	ASD	IP	01 46 25.3							
14	AMA	IP	01 46 26.6							

PCOR

.....
 14 1 49 35.33 51.13 N 179.64 E DEPTH = 36.4 KM FREE DEPTH SOLUTION
 RAT ISLANDS, ALEUTIAN ISLANDS

14	ASD	IP	01 49 43.3	2.9	.1	.74	34	143	-.1	
		IS	01 49 49.2						-.0	
14	ASB	EP	01 49 43.7				37	133	-.0	
14	ASC	EP	01 49 45.3				49	138	.1	
14	AND	IP	01 49 47.5				67	135	-.1	

.....
 14 1 52 10.63 51.38 N 179.61 E DEPTH = 25.0 KM FIXED DEPTH SOLUTION
 RAT ISLANDS, ALEUTIAN ISLANDS

14	ASD	IPGC	01 52 15.8	8.8	.1	.24	19	88	.0	
		IS	01 52 19.2						-.4	
14	ASB	IPGC	01 52 16.7	6.7	.1	.62	25	84	.2	
14	ASC	IPGC	01 52 17.4				32	106	.1	
14	AND	IPGC	01 52 19.4				50	113	-.3	
14	ANA	IPGC	01 52 23.0				71	112	.2	
		IS	01 52 31.9						.2	

.....
 14 2 44 5.39 51.59 N 178.93 E DEPTH = 69.8 KM FREE DEPTH SOLUTION
 RAT ISLANDS, ALEUTIAN ISLANDS

14	AND	EPG	02 44 15.5				4	332	-.1	
14	ANA	IPGC	02 44 15.9				19	101	-.0	
14	ASC	IPG	02 44 16.2				22	312	.2	
14	ASB	IPG	02 44 16.7	2.5	.1		34	319	.0	
		ES	02 44 24.9						-.0	
14	ASD	IPG	02 44 16.8	4.2	.1		38	310	-.1	

.....
 14 3 49 43.21 51.32 N 178.21 E DEPTH = 50.0 KM FIXED DEPTH SOLUTION
 RAT ISLANDS, ALEUTIAN ISLANDS

14	ANA	IPG	03 49 53.8				47	223	.1	
14	RAT	IPG	03 49 54.4				54	189	-.1	
14	AND	EPG	03 49 55.0				58	243	.0	
14	ASB	IPG	03 49 56.3	4.7	.1	2.15	72	267	-.3	
		ES	03 50 6.2						-.1	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
14	ASD	IPG	03 49 57.6	1.4	.1	1.77	79	266	.3	
14	3 51 53.40		51.23 N 178.25 W				DEPTH = 31.0 KM		MB = 4.0	TELESEISMIC SOLUTION
			ANDREANOF ISLANDS, ALEUTIAN IS.							
14	AMA	IP D	03 52 4.5				61	96	.1	
14	ADK	IP C	03 52 14.5				136	238	-.9	
		ES	03 52 29.2						-2.3	
14	ASD	IP D	03 52 18.3	6.7	.1	3.67	169	95	-1.1	
		I	03 52 19.4							
14	ASB	IP C	03 52 19.3	4.0	.1	3.50	175	94	-.9	
		I	03 52 21.4							
14	ASC	IP C	03 52 20.4				182	97	-.7	
		I(S)	03 52 40.2						-1.1	
14	AND	IP C	03 52 22.7				198	100	-.4	
14	ANA	EP	03 52 25.8				219	100	.1	
14	RAT	EP	03 52 28.9				246	104	-.0	
14	5 17 10.21		51.58 N 179.85 E				DEPTH = 65.4 KM			FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
14	ASD	EP	05 17 21.5				42	57	-.1	
		I	05 17 21.9	3.8	.1					
		IS	05 17 29.8						-.1	
14	ASB	IP	05 17 22.1	7.2	.1		48	59	.0	
		IS	05 17 30.8						.0	
14	ASC	IP	05 17 22.3				49	74	.1	
14	AND	IP	05 17 23.3				62	88	-.0	
14	ANA	IP	05 17 25.4				82	93	-.0	
14	5 59 57.10		73.32 N 55.15 E				DEPTH = 0.0 KM		MB = 6.7	MS = 5.1 TELESEISMIC SOLUTION
			NOVAYA ZEMLYA							
14	RAT	EP	06 08 48.9				5481	341		
14	ANA	EP	06 08 50.6				5507	342		
14	AND	EP	06 08 51.2				5520	342		
14	ASD	EP	06 08 52.1				5548	342		TELESEISMIC
14	ASB	EP	06 08 52.6				5547	342		
14	ASC	EP	06 08 52.7				5535	342		
14	ADK	EP C	06 08 54.4				5580	343		
		E	06 10 53.8							
14	AMA	EP	06 08 55.7				5591	342		
14	6 15 46.06		51.57 N 179.60 E				DEPTH = 65.8 KM			FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
14	ASD	IPG	06 15 56.5	21.4	.1		28	40	-.1	
14	ASB	IPGD	06 15 56.9	1.9	.1		34	46	-.0	
		IS	06 16 4.8						-.0	
14	ASC	IPGC	06 15 57.0				33	68	.2	
14	AND	IPG	06 15 57.6				45	88	-.1	
14	ANA	IPG	06 15 59.7				65	95	.1	
14	RAT	IPG	06 16 2.2				91	105	-.1	
14	RAT	IP	07 24 27.6							
		IS	07 24 34.6							
14	ANA	IP	07 24 30.3							
14	AND	IP	07 24 32.1							
14	ASC	IP C	07 24 34.1							
14	ASB	IP C	07 24 34.8							

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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14	ASD	IS	07 24 57.4							
		IP	07 24 35.2	8.8	.1					
14	AMA	IPGD	07 58 54.7							
14	ASD	IPGC	07 59 4.7	7.0	.1					
14	ASB	EPG	07 59 5.7	14.7	.1					
		IS	07 59 18.5							
14	ASC	IPG	07 59 6.8							
14	AND	EPG	07 59 8.6							
14	ANA	EPG	07 59 12.6							
14	RAT	EPG	07 59 15.5							

14 10 15 30.54 51.23 N 179.26 E DEPTH = 41.5 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

14	ASB	IPGC	10 15 37.5				15	176	-.1
		IS	10 15 42.2						-.5
14	ASD	IPGD	10 15 37.8				17	198	.0
		I	10 15 40.5	55.7	.1	.94			
14	ASC	IPGD	10 15 38.7				27	165	.2
14	AND	IPGC	10 15 40.2				43	150	.1
14	ANA	IPG	10 15 42.3				61	136	.0
14	RAT	IPG	10 15 46.0				91	134	-.0
		IS	10 15 57.1						-.2
14	AMA	IPG	10 15 48.8				114	267	-.0

14 10 19 23.21 51.32 N 179.32 E DEPTH = 40.1 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

14	ASD	EP	10 19 29.6				6	195	-.1
		IS	10 19 34.4						-.1
14	ASB	EP	10 19 29.8				6	129	.1
14	ASC	IP	10 19 30.5				19	145	.2
14	ANA	IP	10 19 34.2				57	126	-.1

14 10 40 58.00 18.06 S 178.46 W DEPTH = 609.0 KM MB = 5.3 TELESEISMIC SOLUTION
FIJI ISLANDS REGION

14	AMA	EP	10 51 4.8				7678	179		TELE
14	ASB	EP	10 51 5.0	30.0	.4		7689	178		
14	ASD	EP	10 51 5.2	35.3	.4		7690	178		
14	ASC	EP	10 51 5.8				7700	178		
14	AND	EP	10 51 6.5				7712	177		
14	ANA	EP	10 51 6.8				7720	177		
14	RAT	EP	10 51 7.8				7741	177		
14	ADK	IP C	10 51 7.9				7746	182		

14 11 47 3.84 51.56 N 178.22 E DEPTH = 74.7 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

14	RAT	IPGC	11 47 15.3				27	196	.0
14	ANA	IPGD	11 47 15.5				31	257	.0
		ES	11 47 24.0						.0
14	AND	IPGD	11 47 16.8				51	270	.0

14	AMA	IP C	13 47 33.6						
		I	13 47 41.1						
14	ADK	EP	13 47 42.6						
		ES	13 47 58.2						
14	ASD	IP	13 47 48.5	3.5	.1				
14	ASB	EP	13 47 49.2	8.2	.2				

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
14	ASC	EP	13 47 50.3							
14	ADK	IP C	14 23 12.4							
14	14 30	0.00	37.07 N 116.01 W	DEPTH =	0.0 KM	MB = 5.5	TELESEISMIC SOLUTION			
SOUTHERN NEVADA										
14	ADK	EP	14 38 12.4				4936	85		
14	16 0	34.10	43.40 N 148.04 E	DEPTH =	42.0 KM	MB = 5.2	TELESEISMIC SOLUTION			
KURIL ISLANDS REGION										
14	ADK	EP	16 05 52.0				2790	264		
14	18 15	37.30	43.52 N 147.97 E	DEPTH =	30.0 KM	MB = 5.5	MS = 6.0	TELESEISMIC SOLUTION		
KURIL ISLANDS REGION										
14	ADK	EP	18 20 59.9				2789	265		ER 1827550
		E	18 21 8.0							
		ES	18 25 31.0							
14	ADK	EP	21 19 30.6							ER 2126340
		E	21 19 41.0							
		ES	21 23 54.0							
15	AND	IPGC	06 15 31.1							
		IS	06 15 40.8							
15	ASC	IPGC	06 15 31.8							
15	ASD	IPGC	06 15 32.4							
15	AMA	IP D	06 54 40.5							
15	ADK	EP	06 54 52.5							
		ES	06 55 11.2							
15	ASD	EP	06 54 54.3							
		I	06 54 56.0	3.6	.1					
15	ASB	EP	06 54 56.2							
		IS	06 55 16.4							
15	ASC	IP	06 54 56.5							
15	AND	IP	06 54 58.9							
15	12 13	23.60	17.61 S 178.84 W	DEPTH =	564.0 KM	MB = 5.1	TELESEISMIC SOLUTION			
FIJI ISLANDS REGION										
15	ADK	EP	12 23 34.3				7697	182		
15	ASB	IP D	16 01 28.8	6.4	.1					
15	ASD	IP D	16 01 29.4	3.8	.1					
15	ASC	IP C	16 01 30.0							
15	AND	IP D	16 01 31.0							
		E(S)	16 01 48.7							
15	19 7	21.59	51.36 N 179.66 E	DEPTH =	25.0 KM	FIXED DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
15	ASD	IPGC	19 07 26.8	4.2	.1	.19	22	94		-.3
		IS	19 07 30.5							-.6
15	ASB	IPG	19 07 27.8	11.2	.1	1.03	29	89		-.1
		IS	19 07 32.5							.1
15	ASC	IPG	19 07 29.0				36	108		.2

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
15	AMA	IPG	19 40 19.4							
		IS	19 40 26.8							
15	ASD	IPG	19 40 22.4	2.9	.1					
15	ASB	IPG	19 40 22.9							
15	ASC	IPG	19 40 24.6							
15	RAT	IPG	19 40 33.6							

..... FREE DEPTH SOLUTION

15 20 6 14.21 51.61 N 179.19 E DEPTH = 75.4 KM
RAT ISLANDS, ALEUTIAN ISLANDS

15	AND	IPG	20 06 25.2				17	72	-.1	
		IS	20 06 33.4						-.0	
15	ASC	IPG	20 06 25.5				16	5	.2	
15	ASB	IPG	20 06 25.7	12.4	.1		28	351	-.1	
15	ASD	IPG	20 06 25.7	17.1	.1		28	337	-.1	
15	ANA	IPG	20 06 26.3				36	93	.1	
15	RAT	IPG	20 06 28.2				63	109	-.0	

.....

..... FREE DEPTH SOLUTION

15 21 4 42.86 51.57 N 178.81 E DEPTH = 20.6 KM
RAT ISLANDS, ALEUTIAN ISLANDS

15	AND	IPGD	21 04 46.7				10	275	-.0	
		IS	21 04 49.6						.0	
15	ANA	IPGD	21 04 46.9				12	121	.0	
15	ASB	IPGD	21 04 50.1	1.9	.1	.74	38	308	-.0	
15	ASD	IPGD	21 04 50.8	2.0	.1	.93	43	300	.0	

.....

15 AMA IPGD 21 58 8.5
I 21 58 12.1
IS 21 58 13.3

15 AMA IPGD 23 30 50.1
IS 23 30 55.6

..... FREE DEPTH SOLUTION

16 0 30 53.60 51.79 N 178.57 E DEPTH = 100.3 KM
RAT ISLANDS, ALEUTIAN ISLANDS

16	RAT	IPGD	00 31 7.5				17	93	-.2	
16	ANA	IPGD	00 31 7.9				19	342	.1	
16	AND	IPGD	00 31 8.7				37	314	.3	
16	ASB	IPGD	00 31 10.2	221.2	.1		67	316	-.1	
		IS	00 31 22.3						-.1	
16	ASD	IPG	00 31 10.5				70	311	-.0	
16	AMA	IPGD	00 31 20.4				170	290	-.0	

.....

..... FIXED DEPTH SOLUTION

16 1 9 35.25 51.77 N 176.94 E DEPTH = 50.0 KM
RAT ISLANDS, ALEUTIAN ISLANDS

16	RAT	IP	01 09 51.4				96	269	.0	
16	ANA	IP	01 09 54.5				120	278	.2	
16	AND	IP	01 09 56.7				141	280	-.2	
16	ASB	IP	01 09 59.9	88.5	.1	4.76	166	287	-.1	
		IS	01 10 17.7						-.4	
16	ASD	IP	01 10 .7				172	286	-.0	
16	AMA	IP	01 10 14.7				279	283	.8	
16	ADK	EP	01 10 34.0				446	271	-.5	
		ES	01 11 18.2						.4	

.....

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
16	3 31	8.58	51.26 N 179.77 E	DEPTH = 57.7 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
16	ASD	IPGC	03 31 18.5	12.7	.1		32	113	.0	
16		IS	03 31 25.7						.0	
16	ASB	IPG	03 31 18.9	16.3	.1		38	106	.0	
16	ASC	IPG	03 31 19.7				47	118	-.0	
16	ANA	IPGC	03 31 23.9				87	117	-.0	
16	RAT	IPGC	03 31 27.4				116	120	.0	
.....										
16	AMA	IP C	03 58 58.3							
16	ADK	EP	03 59 6.2							
		ES	03 59 22.0							
16	ASD	EP	03 59 12.1	24.4	.1					
16	ASB	EP	03 59 13.5	27.1	.1					
		IS	03 59 33.2							
16	ASC	EP	03 59 14.5							
16	AND	EP	03 59 16.9							
16	ANA	EP	03 59 19.5							
16	RAT	EP	03 59 22.4							
.....										
16	5 26	13.30	39.26 N 140.70 E	DEPTH = 24.0 KM MB = 5.9 MS = 5.8			TELESEISMIC SOLUTION			
HONSHU, JAPAN										
16	ADK	EP	05 32 38.3				3557	264		ER 0541300
		ES	05 37 55.0							
		EL	05 40 12.0							
.....										
16	ADK	EP	05 35 28.0							
16	GMA	EP	07 05 13.6							
.....										
16	7 50	.63	51.25 N 179.97 W	DEPTH = 50.0 KM			FIXED DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
16	ASD	IPGC	07 50 11.5	13.0	.1	1.99	50	106	.1	
		ES	07 50 19.3						.0	
16	ASB	EPG	07 50 12.0	8.4	.1	1.98	56	102	-.1	
16	ASC	IPGC	07 50 13.0				64	111	-.0	
.....										
16	ASD	EPG	08 14 35.9	3.1	.1					
		IS	08 14 43.3							
16	ASB	EPG	08 14 36.9							
16	ASC	EPG	08 14 37.9							
16	RAT	EPG	11 25 24.5							
		IS	11 25 37.6							
16	ANA	IPGC	11 25 26.1							
16	AND	IPGC	11 25 26.9							
16	ASC	EPG	11 25 28.4							
16	ASD	EPG	11 25 29.2	5.7	.1					
16	ASB	EPG	11 25 29.3	6.1	.1					
16	ADK	EP	12 46 28.5							
		ES	12 46 38.3							
16	AMA	EP	13 14 28.0							
		ES	13 14 44.6							
16	ASD	EP	13 14 39.0	.7	.1					
		ES	13 15 2.7							
16	ASB	EP	13 14 39.8							
16	ASC	EP	13 14 40.6							

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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16	ADK	EP	14 41 13.9							
		ES	14 41 20.7							

16	ADK	EP	15 06 10.4							
		ES	15 06 30.0							

16	16 11 50.50	53.01 N 167.66 W	DEPTH = 45.0 KM	MB = 4.2	TELESEISMIC SOLUTION					
FOX ISLANDS, ALEUTIAN ISLANDS										
16	ADK	EP	16 13 14.4				620	75		
		ES	16 14 26.0							
16	AMA	IP C	16 13 36.3				807	72		TELE
16	ASD	EP	16 13 48.2	23.5	.3		907	73		
16	ASB	EP	16 13 48.7				914	73		
16	ASC	EP	16 13 49.8				916	74		
16	AND	EP	16 13 51.4				927	75		
16	ANA	EP	16 13 53.9				945	75		
16	RAY	EP	16 13 56.9				963	76		
16	GMA	EP	16 14 58.1				1432	198		

16	RAT	IP C	16 43 41.8							
16	ANA	IP	16 43 44.5							
16	AND	EP	16 43 46.3							
16	ASC	EP	16 43 48.4							
16	ASD	IP	16 43 49.5	2.2	.1					
		IS	16 44 8.3							

16	ANA	EP	17 49 57.5							
16	RAT	EP	17 49 57.7							
16	AND	EP	17 49 59.0							
16	ASC	EP	17 50 .1							
16	ASD	EP	17 50 1.2	1.7	.1					
		IS	17 50 11.2							

16	21 17 55.52	51.52 N 179.60 E	DEPTH = 73.3 KM	FREE DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										
16	ASD	IPGD	21 18 6.5	4.9	.1		24	48	-0.2	
16	ASB	IPG	21 18 7.0	5.4	.1		30	54	.0	
		IS	21 18 15.2						-0.1	
16	ASC	IPG	21 18 7.2				31	78	.2	
16	AND	IPG	21 18 7.9				45	96	-0.0	
16	ANA	IPG	21 18 9.8				66	100	.1	
16	RAT	IPG	21 18 12.2				93	109	-0.2	
16	AMA	IPG	21 18 12.4				93	287	-0.0	

16	ADK	EP	23 07 39.4							
		ES	23 07 55.6							
16	AMA	IP D	23 07 55.8							
		IS	23 08 25.3							
16	ASD	IP D	23 08 6.8	10.8	.1					
16	ASB	IP	23 08 7.5	19.3	.1					
16	ASC	IP	23 08 7.9							
16	ANA	EP	23 08 10.9							
16	RAT	IP	23 08 13.6							

17	1 39 57.96	51.40 N 179.77 W	DEPTH = 13.4 KM	FREE DEPTH SOLUTION						
DELAROF ISLANDS, ALEUTIAN ISLANDS										
17	AMA	IP	01 40 6.4				47	286	.0	
17	ASD	IP D	01 40 8.5				62	87	-0.1	
		I	01 40 9.7							
17	ASB	IP D	01 40 9.1				69	86	-0.5	
		I	01 40 10.2	391.7	.2	3.69				

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
		ES	01 40 18.3						.3	
17	ASC	IP D	01 40 10.8				74	95	.4	
17	AND	EP	01 40 13.0				90	101	.1	
		I	01 40 14.1							
		EL	01 40 27.0							
17	ANA	EP	01 40 16.2				112	102	.1	
17	RAT	EP	01 40 19.9				139	108	-.3	
17	ADK	EP	01 40 32.7				227	258	.0	
		ES	01 41 4.4						6.4	
17	AMA	IPGC	02 16 52.5							
		IS	02 16 59.2							
17	ASD	EP	02 16 59.1							
		ES	02 17 10.7							
17	ASR	EP	02 16 59.9							
		ES	02 17 12.0							
17	ASC	EP	02 17 .9							
17	ASB	EP	02 57 48.4	2.3	.1					
17	ASD	IP D	02 57 48.7	4.8	.1					
		IL	02 58 6.5							
17	ASC	EP	02 57 49.0							
17	RAT	E(P)	02 57 51.5							
17	ASP	IPG	03 35 57.2	10.6	.1					ASC TOO NOISY
		ES	03 36 0.0							
17	ASD	IPGD	03 35 57.4	3.4	.1					V.SMALL,V.LOCAL
		IS	03 36 .3							
17	AMA	IP D	04 42 43.4							
		I	04 42 44.8							
		I(S)	04 43 3.1							
17	ASD	FP	04 42 56.0	5.2	.1					
17	ASB	EP	04 42 56.8	4.5	.1					
17	RAT	E(P)	04 43 3.9							
17	GMA	EP	05 06 21.5							
17	5 26 40.94	51.72 N 179.46 W DEPTH = 94.4 KM DELAROF ISLANDS, ALEUTIAN ISLANDS								FREE DEPTH SOLUTION
17	AMA	IPGD	05 26 56.2				54	334	.1	LARGE
		IS	05 27 7.0						-.1	
17	ASD	IP C	05 26 58.4				92	65	-.8	
		ES	05 27 12.8						.3	
17	ASR	IP	05 26 59.8				98	65	-.0	
17	ASC	IP C	05 27 .2				100	73	.3	
17	AND	EP	05 27 1.5				111	80	.4	
17	ANA	IP C	05 27 3.4				130	85	.3	
17	RAT	IP C	05 27 5.5				153	92	-.0	
		IS	05 27 23.0						-.5	
17	ADK	IP	05 27 10.6				199	266	-.2	
		ES	05 27 32.9						.3	
17	6 48 20.56	51.10 N 178.69 E DEPTH = 47.4 KM RAT ISLANDS, ALEUTIAN ISLANDS								FREE DEPTH SOLUTION
17	ASB	IPG	06 48 30.9	4.4	.1	1.47	48	234	-.1	
		IS	06 48 38.5						-.2	
17	ASD	IPG	06 48 31.7	5.3	.1	1.75	55	236	-.0	
17	ASC	IPG	06 48 31.7				52	220	.3	
17	AND	IPGD	06 48 31.8				54	200	.1	
		IS	06 48 39.8						-.0	
17	ANA	IPGD	06 48 32.3				58	178	.1	
17	RAT	IPG	06 48 34.7				81	162	-.2	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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17 11 53 25.06 51.39 N 178.47 E DEPTH = 25.0 KM FIXED DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

17	ANA	EP	11 53 31.8				29	207	.4	QP
17	AND	EP	11 53 32.9				39	241	.3	
17		IS	11 53 38.0						-.2	
17	RAT	EP	11 53 33.7				46	168	-.0	
17		ES	11 53 39.6						-.4	
17	ASC	EP	11 53 34.3				49	261	.2	
17	ASB	EP	11 53 34.6	3.0	.1	1.50	54	274	-.2	
17	ASD	EP	11 53 35.5	1.1	.1	1.25	61	272	-.3	POOR

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17 AMA IP D 12 03 28.5 REGIONAL
17 ASD IP D 12 03 39.9 NO S VISIBLE
17 ASB IP D 12 03 41.1 10.5 .2
17 ASC EP 12 03 42.2 24.3 .2
17 AND EP 12 03 42.9
17 RAT EP 12 03 48.7 QP

17 AMA IPGC 12 15 15.6
IS 12 15 20.1

17 ADK EP 12 32 59.7
ES 12 33 9.2

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17 14 16 42.31 52.06 N 179.79 E DEPTH = 170.2 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

17	ASD	IP D	14 17 7.2	22.3	.1		82	22	-.1	
17		IS	14 17 25.5						-.1	
17	AND	IP C	14 17 7.2				80	46	.0	
17	ASC	IP	14 17 7.3				79	33	.2	
17	ASB	IP D	14 17 7.6	77.3	.2		86	26	.0	
17		IS	14 17 25.9						-.1	
17	ANA	IP C	14 17 8.0				91	58	.1	
17	RAT	IP C	14 17 8.6				105	74	-.1	
17	AMA	IP D	14 17 9.3				114	319	-.1	
17		IS	14 17 29.3						.1	

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17 15 9 22.69 51.50 N 179.50 E DEPTH = 19.5 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

17	ASD	IPG	15 09 27.2	1.8	.1	-.52	18	37	.0	VERY SMALL LOC.
17		ES	15 09 30.4						-.0	
17	ASC	EPG	15 09 27.8				23	79	-.1	
17		ES	15 09 31.7						.1	
17	ASB	IPG	15 09 27.9	3.2	.1	.18	23	48	.0	
17		ES	15 09 31.6						-.0	

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17 RAT EP 15 34 45.2
IS 15 35 6.5
17 ANA EP 15 34 46.8
17 ASB IP 15 34 49.4 8.3 .2
ES 15 35 13.7
17 ASD EP 15 34 50.2 POOR

17 AMA IPGD 15 46 24.9
ES 15 46 28.3

17 RAT IP 17 11 8.2
ES 17 11 26.4

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
17	ANA	EP	17 11 11.9							
17	AND	EP	17 11 14.1							
17	ASB	EP	17 11 16.9	23.2	.2					QP
		E(S)	17 11 45.4							
17	ASD	EP	17 11 17.8	29.4	.2					QP
17	AMA	IPGD	17 50 47.4							
		IS	17 50 51.3							
17	GMA	EP	19 26 34.5							
17	AMA	IPGD	21 15 37.4							
		IS	21 15 41.2							
17	ASD	EP	21 15 48.0							
17	ASB	EP	21 15 48.9							
17	ASC	EP	21 15 50.0							
17	AMA	IP D	21 33 33.3							
		ES	21 33 44.6							
17	ASD	EP	21 33 45.2	3.8	.1					
		IS	21 34 4.9							
17	ASB	EP	21 33 46.1	7.9	.1					
		IS	21 34 6.4							
17	ASC	IP D	21 33 47.0							
		ES	21 34 7.7							
17	AND	EP	21 33 48.3							
17	RAT	EP	21 33 53.5							
.....										
17	22 32 46.25	50.24 N 178.43 E	DEPTH = 50.0 KM							FIXED DEPTH SOLUTION
		RAT ISLANDS, ALEUTIAN ISLANDS								
17	ASB	IP C	22 33 7.3	21.4	.1	3.84	137	205	-.2	
17	ASD	IP C	22 33 8.0	16.5	.1	3.78	142	207	-.0	
		ES	22 33 23.8						-.1	
17	ASC	IP	22 33 8.4				145	201	-.1	
17	AND	IP C	22 33 9.1				151	194	-.1	
17	ANA	IP	22 33 9.8				155	186	.2	
17	RAT	IP C	22 33 11.7				173	178	-.2	
17	AMA	IP D	22 33 16.2				209	237	-.1	
17	SSI	EP	22 33 15.8				201	204	.5	
.....										
17	23 5 32.90	51.55 N 178.95 E	DEPTH = 53.0 KM							FREE DEPTH SOLUTION
		RAT ISLANDS, ALEUTIAN ISLANDS								
17	AND	IPGC	23 05 41.0				2	176	.0	
17	ANA	IPG	23 05 41.5				22	113	-.1	
17	ASC	IPGC	23 05 41.8				17	303	.4	
17	ASB	IPGC	23 05 42.1	3.8	.1		29	316	.0	
		ES	23 05 48.2						-.6	
17	ASD	IPGC	23 05 42.7	8.8	.1		33	306	.3	
17	RAT	EP	23 05 44.0				51	123	-.1	
17	AMA	EP	23 05 54.0				137	283	-.2	QP
.....										
18	1 7 20.90	25.69 S 178.59 E	DEPTH = 572.0 KM MB = 4.9							TELESEISMIC SOLUTION
		SOUTH OF FIJI ISLANDS								
18	ADK	EP	01 18 17.2				8601	184		
.....										
18	AMA	IP D	01 42 25.6							
18	ASD	IP	01 42 35.3	4.5	.1					
18	ASB	EP	01 42 35.7	12.6	.2					
		E(S)	01 43 3.3							
18	ASC	IP	01 42 37.2							

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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18	AND	EP	01 42 39.5							
18	SSI	EP	01 42 39.7							
		IS	01 43 10.9							
18	ANA	EP	01 42 42.0							
18	RAT	EP	01 42 45.9							
		I	01 43 8.8							
		ES	01 43 21.6							

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 . 18 6 4 0.00 49.66 N 153.13 E DEPTH = 231.0 KM MB = 4.8 TELESEISMIC SOLUTION
 . KURIL ISLANDS

. 18	RAT	IP	06 07 34.4				1788	272		TELE
		I	06 07 41.5							
. 18	AND	EP	06 07 38.9				1832	274		
. 18	ASC	EP	06 07 40.6				1847	274		
. 18	ASB	EP	06 07 40.8				1854	274		
. 18	ASD	EP	06 07 41.5				1860	274		
. 18	SSI	EP	06 07 42.7				1874	273		
. 18	AMA	EP	06 07 51.9				1969	276		

18	AMA	IP C	08 48 15.8							
		I(S)	08 48 30.6							
18	SSI	IP C	08 48 22.5							
18	ASD	EP	08 48 25.3							
18	ASC	EP	08 48 26.6							

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 . 18 9 19 33.20 16.74 S 172.09 W DEPTH = 35.0 KM MB = 5.5 MS = 5.1 TELESEISMIC SOLUTION
 . SAMOA ISLANDS REGION

. 18	ADK	E(P)	09 30 32.9				7610	175		
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18	AMA	IP	10 29 59.6							
18	SSI	EP	10 30 14.2							QP, REGIONAL
18	RAT	EP	10 30 17.0							
		I(S)	10 30 40.8							
18	AMA	EP	11 45 57.2							
		IS	11 46 4.4							
18	ASD	EP	11 46 .4							
18	SSI	IP	11 46 4.9							
		ES	11 46 17.8							
18	RAT	EP	13 32 55.7							TELE
18	AND	EP	13 32 59.9							
18	AMA	EP	13 33 12.9							

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 . 18 14 38 59.59 51.58 N 179.30 W DEPTH = 75.0 KM FIXED DEPTH SOLUTION
 . DELAROF ISLANDS, ALEUTIAN ISLANDS

. 18	AMA	EP	14 39 11.4				35	338	-.1	POOR
. 18	SSI	EP	14 39 15.8				84	114	.1	
		IS	14 39 27.2						-.2	
. 18	ASD	EP	14 39 17.0				97	76	.0	

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 . 18 17 41 30.60 51.22 N 179.13 E DEPTH = 49.2 KM FREE DEPTH SOLUTION
 . RAT ISLANDS, ALEUTIAN ISLANDS

. 18	ASB	IP	17 41 38.7	2.1	.1	-.45	18	207	.0	QS
		E(S)	17 41 44.6						.0	
. 18	ASD	IP	17 41 39.0				23	220	.0	LOCAL
. 18	ASC	IP	17 41 39.3				27	185	.0	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
18	19	0	16.82	51.07 N 179.41 W DEPTH = 50.0 KM				FIXED DEPTH SOLUTION		
DELAROF ISLANDS, ALEUTIAN ISLANDS										
18	AMA	IPGC	19 00 26.1				32	220	.1	
		IS	19 00 31.7						-.9	
18	ASD	IP C	19 00 32.5				94	111	-.2	
18	ASB	EP	19 00 33.4				99	109	-.0	
		ES	19 00 44.4						-1.1	
18	ASC	EP	19 00 34.6				109	113	.0	
18	SSI	EP	19 00 36.0				115	142	.6	
18	AND	EP	19 00 37.3				127	115	.5	QP
.....										
18	20	9	22.02	51.80 N 177.99 E DEPTH = 79.4 KM				FREE DEPTH SOLUTION		
RAT ISLANDS, ALEUTIAN ISLANDS										
18	RAT	IPGD	20 09 33.8				23	269	-.0	
		ES	20 09 42.4						-.1	
18	ANA	IPG	20 09 35.5				50	292	.1	
18	AND	IPG	20 09 37.3				71	292	.2	
		IS	20 09 48.2						.0	
18	ASC	IP	20 09 39.1				89	295	.2	
18	ASB	EP	20 09 39.6	4.3	.1		99	300	-.3	
18	ASD	IP D	20 09 40.3				104	297	-.2	
18	SSI	IP D	20 09 41.0				110	265	-.1	
18	AMA	EP	20 09 52.7				208	287	.2	QP
.....										
18	AMA	EP	20 17 32.4							
18	SSI	EP	20 17 34.2							
18	ASD	EP	20 17 38.9	5.0	.1					
18	ASB	EP	20 17 40.5							
18	ASC	EP	20 17 40.6							
18	AND	EP	20 17 40.9							
.....										
18	21	35	11.98	51.04 N 179.40 W DEPTH = 50.0 KM				FIXED DEPTH SOLUTION		
DELAROF ISLANDS, ALEUTIAN ISLANDS										
18	AMA	IPGD	21 35 19.9				34	217	-1.4	
		ES	21 35 24.8						-3.3	
18	ASD	IPGD	21 35 27.6	26.6	.1	3.35	95	112	-.5	
18	ASB	IP D	21 35 28.3	21.8	.1	3.35	101	110	-.4	
		ES	21 35 39.8						-1.2	
18	ASC	IP	21 35 29.7				110	114	-.2	
18	SSI	IP D	21 35 31.0				118	143	.2	
		IS	21 35 44.6						.0	
18	AND	EP	21 35 32.5				128	116	.4	
		I	21 35 33.6							
		IS	21 35 47.1						.3	
18	ANA	EP	21 35 36.1				150	115	1.4	
18	RAT	IP D	21 35 38.7				179	117	.4	
18	ADK	EP	21 35 43.6				217	246	.6	
		ES	21 36 8.9						3.3	
.....										
18	21	48	25.70	51.49 N 178.96 E DEPTH = 20.8 KM				FREE DEPTH SOLUTION		
RAT ISLANDS, ALEUTIAN ISLANDS										
18	AND	IPGD	21 48 29.4				8	177	-.1	
		IS	21 48 32.2						-.0	
18	ASC	IPG	21 48 30.2				15	283	.2	
18	ASB	IPGD	21 48 31.2	4.1	.1	.37	25	306	.1	
		IS	21 48 35.2						.1	
18	ASD	IPG	21 48 31.7	3.1	.1	.52	29	296	-.0	
		ES	21 48 35.8						-.3	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
18	RAT	IPG	21 48 35.4				55	128	-0	
18	SSI	IPGD	21 48 36.5				62	225	0	CLASSIC LOCAL
18	AMA	IPGD	21 48 56.3							
		IS	21 49 1.2							
18	ASD	EP	21 49 4.0	1.8	.1					
18	ASB	EP	21 49 4.8	1.8	.1					
18	ASC	EP	21 49 6.4							
18	SSI	EP	21 49 7.5							
18	23	9 54.31	50.99 N 179.57 W	DEPTH = 50.0 KM						
			DELAROF ISLANDS, ALEUTIAN ISLANDS	FIXED DEPTH SOLUTION						
18	AMA	IP D	23 10 5.2				46	224	.4	
		ES	23 10 11.6						-.8	
18	ASD	EP	23 10 8.7	20.4	.2	2.79	87	119	-.7	
18	ASB	EP	23 10 9.3	22.6	.2	2.92	92	116	-.7	
		ES	23 10 19.0						-2.5	
18	ASC	IP	23 10 11.0				103	120	-.3	
18	SSI	IP D	23 10 13.3				116	150	.3	
		I	23 10 26.4							
18	AND	EP	23 10 13.6				121	121	.1	
18	ANA	E(P)	23 10 17.1				142	119	1.0	QP
18	RAT	EP	23 10 20.1				171	121	.4	
18	RAT	IP	23 22 57.0							
		ES	23 23 18.5							
18	ANA	IP	23 23 0.0							
18	AND	EPN	23 23 2.0							
		IPG	23 23 3.6							
18	ASC	EP	23 23 4.3							
18	ASD	EP	23 23 6.4	69.0	.2					
18	ASB	E(P)	23 23 7.3							
		E(S)	23 23 37.2							
18	SSI	IP	23 23 8.4							
18	AMA	EP	23 23 17.8							
18	ADK	EP	23 23 54.0							
		ES	23 24 37.9							
19	4 31	9.28	51.05 N 179.27 E	DEPTH = 20.6 KM						
			RAT ISLANDS, ALEUTIAN ISLANDS	FREE DEPTH SOLUTION						
19	ASB	IP D	04 31 16.0	12.2	.1	1.38	35	178	-0	
		IS	04 31 20.9						-0	
19	ASD	IP	04 31 16.3				37	188	-0	
19	ASC	IP	04 31 17.7				46	171	-0	
19	RAT	IP	05 12 20.4							
		IS	05 12 44.9							
19	AND	IP	05 12 23.4							
		IS	05 12 46.4							
19	ASC	IPG	23 55 21.8							
19	ANA	IPG	23 55 21.8							
19	ASD	IPGD	23 55 22.1	10.1	.1					
		IS	23 55 32.9							
19	ASB	IPG	23 55 22.5	4.4	.1					
19	RAT	IPG	23 55 22.5							

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
20	3 41	11.98	51.05 N 179.91 W	DEPTH = 28.5 KM		FREE DEPTH SOLUTION				
			DEAROF ISLANDS, ALEUTIAN ISLANDS							
20	AMA	EPG	03 41 23.0				62	245	-.0	
20	ASD	EPG	03 41 23.3	2.2	.1	1.62	64	125	.0	
20	ASB	EPG	03 41 23.9				68	120	-.0	
		ES	03 41 32.6						.0	
20	ASC	EPGD	03 41 25.5				79	125	-.0	
20	SSI	EPG	03 41 28.6				100	159	.0	
20	AMA	IP D	04 57 50.6							
20	ADK	IP D	04 57 52.0							
		ES	04 58 3.7							
20	SSI	IPND	04 58 3.1							GOOD RECORD
		IPG	04 58 5.1							
20	ASD	IPNC	04 58 4.3							
		IPG	04 58 7.1							
20	ASB	IPN	04 58 5.3							
		IPG	04 58 7.7	65.7	.1					
		IS	04 58 26.9							
20	ASC	IPND	04 58 6.2							
20	AND	EPN	04 58 7.8							
20	ANA	EPN	04 58 10.5							
20	RAT	EPN	04 58 13.3							
20	AMA	EP	06 21 41.9							
		I(S)	06 21 51.7							
20	ADK	EP	06 21 43.7							
		ES	06 21 53.0							
20	SSI	IP	06 21 52.8							
		I	06 22 5.3							
20	ASD	EP	06 22 6.4	2.2	.1					
		I(S)	06 22 37.2							
20	ASB	EP	06 22 8.7							
20	ASC	EP	06 22 8.7							
20	7 1	2.99	51.45 N 179.64 E	DEPTH = 74.3 KM		FREE DEPTH SOLUTION				
			RAT ISLANDS, ALEUTIAN ISLANDS							
20	ASB	IPG	07 01 14.4	2.8	.1		29	69	-.1	
20	ASD	IPGD	07 01 14.1	1.8	.1		22	68	-.1	
		IS	07 01 22.3						-.0	
20	ASC	IPGD	07 01 15.0				33	92	.3	
20	ANA	IPG	07 01 17.7				70	106	.1	
20	AND	IPG	07 01 15.5				49	104	-.3	
20	ADK	EP	07 44 .8							
		ES	07 44 17.2							
20	8 23	55.76	51.39 N 177.32 E	DEPTH = 0.0 KM		FIXED DEPTH SOLUTION				
			RAT ISLANDS, ALEUTIAN ISLANDS							
20	RAT	IPGD	08 24 10.9				83	238	.1	
		IS	08 24 21.8						.1	
20	ANA	EPG	08 24 13.3				97	255	.5	
20	AND	EPG	08 24 15.4				115	261	-.2	
20	ASC	IPGC	08 24 17.8				128	267	.2	
20	ASB	IPG	08 24 18.7				134	272	.2	
20	ASD	IPGC	08 24 19.2				141	272	-.3	
20	SSI	IP C	08 24 22.7				166	251	-.7	
		IS	08 24 43.4						-.1	
20	AMA	IP D	09 17 34.3							

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
		IS	09 17 39.5							
20	ASD	EP	09 17 47.3	1.3	.1					POOR ARRIVAL
20	ASB	EP	09 17 49.0							

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20	10 20 58.65	51.24 N 179.95 W DEPTH = 37.3 KM					FREE DEPTH SOLUTION				
DEAROF ISLANDS, ALEUTIAN ISLANDS											
20	ASD	IPGC	10 21 9.0	7.4	.1	1.81	52	107	.1		
20	AMA	IPGC	10 21 9.7				59	265	-.1		
		IS	10 21 17.9						-.1		
20	ASB	IPGC	10 21 9.8	7.3	.1	1.97	57	104	.2		
		IS	10 21 17.5						-.1		
20	ASC	IPGD	10 21 11.1				66	112	.3		
20	SSI	IPGD	10 21 12.9				80	156	.2		
20	AND	IPG	10 21 13.0				84	115	-.3		
		IS	10 21 23.5						-.5		
20	ANA	EPG	10 21 16.3				106	114	-.0		
20	RAT	IPG	10 21 19.9				135	117	-.6		
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20	10 24 1.09	51.40 N 179.73 E DEPTH = 10.5 KM					FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS											
20	ASD	IPGC	10 24 6.3	7.4	.1	.77	27	86	-.1		
		IS	10 24 10.2						-.0		
20	ASB	IPGC	10 24 7.5	4.2	.1	.88	34	83	-.0		
		IS	10 24 12.2						-.0		
20	ASC	IPGC	10 24 8.6				40	101	.1		
20	AND	EPG	10 24 11.0				57	109	-.1		
20	ANA	EPG	10 24 14.4				78	109	.1		
20	AMA	EPG	10 24 14.8				82	279	-.0		
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20	13 8 59.70	51.26 N 178.47 W DEPTH = 49.0 KM MB = 4.7					TELESEISMIC SOLUTION				
DEAROF ISLANDS, ALEUTIAN ISLANDS											
20	AMA	IP D	13 09 9.1				45	94	-.8		
20	ADK	IP C	13 09 21.9				148	243	-.4		
		IS	13 09 38.0						-.8		
20	ASD	IP D	13 09 22.7				153	94	-.1	OVERLOAD	
20	SSI	IP D	13 09 23.4				152	117	.7		
20	ASB	IP C	13 09 23.5				159	93	-.1		
		I	13 09 25.4								
20	ASC	IP D	13 09 24.7				166	97	.3		
20	AND	EP D	13 09 26.7				182	100	.3		
20	ANA	EP C	13 09 29.7				203	101	.7		
20	RAT	IP D	13 09 33.0				230	104	.7		
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20	14 27 4.01	51.73 N 178.97 E DEPTH = 86.8 KM					FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS											
20	AND	IPGD	14 27 16.6				19	4	.1		
20	ANA	IPGD	14 27 16.9				24	62	.2		
20	ASC	EPG	14 27 17.2				33	336	.1		
20	RAT	IPGC	14 27 17.7				45	100	-.1		
20	ASB	IPGC	14 27 17.7	1.9	.1		45	335	-.1		
		IS	14 27 27.8						-.1		
20	SSI	IPGD	14 27 17.8				46	247	-.1		
20	ASD	IPGD	14 27 17.8	4.3	.1		47	327	-.1		
20	AMA	EPG	14 27 27.0				142	291	-.0		
		ES	14 27 43.9						.1		
.....											

20 GHA E(P) 16 19 24.5

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
20	17 10	52.98	51.78 N 178.97 E	DEPTH = 90.5 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
20	AND	EPG	17 11 6.2				24	3	.1	
20	ANA	IPGC	17 11 6.4				27	51	.1	
20	RAT	IPGD	17 11 6.9				44	92	-.2	
20	ASC	IPG	17 11 7.1				38	339	.3	
20	SSI	IPG	17 11 7.1				44	254	-.0	
		IS	17 11 17.4						-.0	
20	ASB	EPG	17 11 7.4				51	338	-.1	
		IS	17 11 18.0						-.1	
20	ASD	IPGD	17 11 7.4	3.2	.1		52	330	-.2	
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.....										
20	19 5	28.55	52.02 N 179.36 E	DEPTH = 181.9 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
20	SSI	IP D	19 05 52.8				21	311	.1	
20	AND	EP C	19 05 53.5				58	29	-.2	
20	ASC	IP	19 05 54.1				63	12	.2	
20	ANA	IP C	19 05 54.1				64	48	.1	
20	ASD	IP C	19 05 54.3	19.5	.1		71	1	.0	
20	RAT	IP C	19 05 54.3				74	71	-.2	
20	ASB	EP	19 05 54.5	15.5	.1		73	6	.1	
		ES	19 06 13.2						-.1	
20	AMA	EP	19 05 58.1				133	308	-.1	
.....										
.....										
20	22 57	13.28	51.76 N 179.64 E	DEPTH = 108.2 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
20	SSI	IPG	22 57 28.2				15	166	-.1	
20	ASD	IPGD	22 57 29.3	2.4	.1		48	26	-.2	
20	ASB	EPG	22 57 29.6	4.0	.1		52	31	-.2	
20	ASC	EPG	22 57 29.6				47	44	.1	
20	AND	IPG	22 57 29.8				52	65	.0	
20	ANA	IPG	22 57 31.1				69	77	.2	
		IS	22 57 43.9						.2	
20	RAT	IPG	22 57 32.5				90	92	-.1	
20	AMA	IPGD	22 57 33.7				102	302	.1	
		ES	22 57 48.4						.0	
.....										
.....										
20	23 2	29.39	51.70 N 178.79 E	DEPTH = 85.5 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
20	ANA	IPGC	23 02 41.7				12	49	.1	
		IS	23 02 50.8						.3	
20	AND	IPG	23 02 41.8				19	323	.0	
20	RAT	IPGC	23 02 42.3				34	110	-.1	
20	ASC	EPG	23 02 42.5				37	315	-.0	
20	ASB	IPG	23 02 43.2	5.7	.1		49	320	-.1	
		IS	23 02 53.3						-.1	
20	ASD	IPGD	23 02 43.3	6.2	.1		52	313	-.2	
20	SSI	IPGD	23 02 43.9				59	249	-.1	
20	AMA	EPG	23 02 53.8				152	288	.3	
.....										
.....										
20	23 14	34.37	51.38 N 179.60 E	DEPTH = 56.5 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
20	ASD	IPGC	23 14 43.2	31.8	.1		18	90	-.1	
		IS	23 14 49.9						.1	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
20	ASB	IPGC	23 14 43.6	65.7	.1		25	86	-.1	
		I	23 14 49.0							
		ES	23 14 50.5						.1	
20	ASC	IPG	23 14 44.2				32	108	.1	
20	AND	IPGC	23 14 45.4				50	114	-.2	
20	SSI	IPG	23 14 46.3				58	179	-.1	
		IS	23 14 55.2						-.0	
20	ANA	IPG	23 14 48.0				71	113	.1	
20	AMA	IPG	23 14 49.9				90	277	-.1	
		IS	23 15 1.9						.4	
20	RAT	IPG	23 14 51.2				100	118	-.0	
		ES	23 15 3.9						.4	
21	SSI	IP C	00 32 22.9							
21	AMA	IP D	00 32 22.9							
		IS	00 32 27.9							
21	ASD	IP	00 32 30.8	2.4	.1					
		IS	00 32 42.2							
21	AMA	IPGD	01 11 48.2							
		IS	01 11 51.9							
21	ASD	EP	01 11 57.5	1.7	.1					
21	ASB	IP D	01 11 58.7	8.6	.1					
		ES	01 12 10.5							
21	SSI	IP	01 11 59.1							
		IS	01 12 11.5							
21	ASC	IP	01 11 59.9							
21	ADK	EP	06 36 59.4							
		ES	06 37 25.5							
21	AMA	IP D	06 37 15.7							
		I	06 37 45.6							
		I	06 37 53.1							
21	SSI	IP	06 37 23.3							
21	ASD	IP C	06 37 25.5	2.0	.1					
21	ASB	IP	06 37 26.3	6.2	.2					
		ES	06 38 10.9							
21	ASC	EP	06 37 26.8							
21	12 30 49.48	51.07 N 179.96 W DEPTH = 29.5 KM DELAROF ISLANDS, ALEUTIAN ISLANDS							FREE DEPTH SOLUTION	
21	ASD	IPGD	12 31 .3				60	125	.0	
21	ASB	IPG	12 31 .9	10.8	.1	2.33	64	120	-.0	
21	AMA	IPGC	12 31 .9				64	248	.0	
		IS	12 31 9.2						.0	
21	ASC	IPG	12 31 2.5				75	126	-.0	
21	12 35 43.70	51.44 N 174.25 W DEPTH = 21.0 KM MB = 5.1 ANDREANOF ISLANDS, ALEUTIAN IS.							TELESEISMIC SOLUTION	
21	ADK	IP C	12 36 11.4				168	106	1.0	ML 4.4
21	AMA	IP C	12 36 30.9				338	85	-.6	
		I	12 36 35.5							
		E	12 36 38.4							
21	SSI	IP D	12 36 43.7				428	94	1.1	
21	ASD	EP	12 36 44.4				445	87	-.3	
		I	12 36 48.9	5.9	.1					
21	ASB	EP	12 36 45.9	15.5	.1		452	86	.4	
		ES	12 37 1.5						-.0	
		E	12 37 44.5							
21	ASC	EP	12 36 46.8				457	88	.6	
21	AND	EP	12 36 48.9				471	89	1.0	VERY EMERGENT
21	ANA	EP	12 36 51.4				491	90	1.0	
21	RAT	EP	12 36 54.3				514	91	1.0	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
21	GMA	EP	12 39 29.3				1729	212	6.0	
21	15 12 31.40		53.30 N 161.62 W				DEPTH = 33.0 KM		MB = 4.3	TELESEISMIC SOLUTION
			SOUTH OF ALASKA							
21	AMA	IP	15 15 7.7				1212	73		OTHER STATIONS
21	ASD	EP	15 15 20.3				1312	73		OBSCURED BY
21	ASB	EP	15 15 20.8				1319	73		WIND
21	GMA	E(P)	15 15 24.8				1353	181		
21	16 20 29.28		51.01 N 178.98 E				DEPTH = 25.0 KM			FIXED DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
21	ASB	IPG	16 20 37.6	9.5	.1	1.64	44	205	.1	
		IS	16 20 43.5						-.0	
21	ASD	IPG	16 20 38.1	5.5	.1	1.57	48	212	-.1	
21	AND	EPG	16 20 40.3				62	178	.1	
21	ANA	EPG	16 20 41.6				73	162	-.1	
21	17 56 10.10		62.43 N 151.10 W				DEPTH = 102.0 KM			TELESEISMIC SOLUTION
			CENTRAL ALASKA							
21	GMA	EP	17 57 29.0				598	119		
21	18 36 30.60		50.70 N 178.62 E				DEPTH = 25.0 KM			FIXED DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
21	ASD	IPG	18 36 45.2	6.9	.1	2.69	91	214	-.6	
		ES	18 36 56.8						-.0	
21	ASB	IPG	18 36 45.9	27.1	.1	3.19	86	211	-.9	
		ES	18 36 58.1						2.6	
21	ASC	IPG	18 36 46.0				93	205	-.1	
21	AND	IPG	18 36 46.5				99	194	-.5	
21	ANA	IPG	18 36 48.6				104	182	1.0	
21	RAT	IPG	18 36 50.3				124	171	-.5	
21	19 16 46.01		51.66 N 178.65 E				DEPTH = 65.3 KM			FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
21	ANA	IP	19 16 55.8				3	348	.2	
21	RAT	IP	19 16 56.2				27	125	-.2	
21	AND	IPG	19 16 56.4				23	297	.2	
		IS	19 17 3.4						-.2	
21	ASC	IP	19 16 57.6				42	301	.2	
21	ASB	IP	19 16 58.2	4.7	.1		53	309	-.1	
21	ASD	IP	19 16 58.4	3.1	.1		57	303	-.3	
21	SSI	IP	19 16 59.9				70	248	-.0	
21	21 19 .43		50.91 N 179.41 W				DEPTH = 50.0 KM			FIXED DEPTH SOLUTION
			DELAROF ISLANDS, ALEUTIAN ISLANDS							
21	AMA	IPGC	21 19 10.9				47	206	-.1	
		IS	21 19 16.4						-2.2	
21	ASD	IP C	21 19 16.9	26.5	.1	3.45	102	120	-.4	
21	ASB	IPGC	21 19 17.5				107	118	-.4	
		ES	21 19 30.5						-.2	
21	ASC	IP	21 19 19.3				117	121	.1	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (KU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
21	SSI	IP	21 19 20.8				130	147	.0	
21	AND	IP C	21 19 21.2				136	122	-.3	
21	ANA	IP	21 19 24.7				157	120	.7	
21	RAT	IP C	21 19 28.1				186	121	.4	
.....										
22	AMA	IPGC	00 02 .7							ASB OFF FOR CAL
		IS	00 02 5.9							
22	ASD	EP	00 02 7.2	12.0	.1					
22	ASC	EP	00 02 10.5							
22	SSI	IP	00 02 12.0							
		IS	00 02 26.3							
22	AND	IP	00 02 14.0							
22	ANA	IP	00 02 17.1							
22	RAT	IP	00 02 20.5							
.....										
22	2 19 34.71	52.01 N 178.14 E DEPTH = 112.1 KM						FREE DEPTH SOLUTION		
		RAT ISLANDS, ALEUTIAN ISLANDS								
22	RAT	IP	02 19 50.5				27	332	-.0	
22	ANA	IP	02 19 51.9				56	320	.1	
22	AND	IP	02 19 52.9				75	312	-.2	
22	ASC	IP	02 19 54.8				93	311	.2	
22	SSI	IP	02 19 55.2				100	278	.0	
22	ASD	IP C	02 19 55.7	5.2	.1		109	311	-.3	
22	ASB	IP	02 19 55.8	7.5	.1		105	314	.2	
		ES	02 20 10.9						.0	
.....										
22	2 56 45.36	51.38 N 179.23 E DEPTH = 24.3 KM						FREE DEPTH SOLUTION		
		RAT ISLANDS, ALEUTIAN ISLANDS								
22	ASB	IPG	02 56 49.5	3.7	.1		3	340	.1	
		IS	02 56 52.3						-.1	
22	ASD	IP D	02 56 49.5	5.9	.1		7	275	-.1	
22	ASC	IP	02 56 49.9				10	151	.2	
22	AND	IP C	02 56 51.4				28	136	-.1	
.....										
22	3 9 5.20	54.18 N 165.31 W DEPTH = 65.0 KM MB = 4.8						TELESEISMIC SOLUTION		
		FOX ISLANDS, ALEUTIAN ISLANDS								
22	ADK	EP	03 10 52.4				798	67		
22	AMA	IP	03 11 11.7				985	66		UNABLE TO FIND
22	SSI	IP	03 11 20.1				1044	70		S.
22	ASD	IP	03 11 23.2				1081	67		
22	ASB	IP	03 11 24.2				1087	67		
22	ASC	IP	03 11 24.6				1088	68		
22	AND	EP	03 11 25.9				1098	68		
22	ANA	EP	03 11 28.6				1114	69		
22	RAT	EP	03 11 32.8				1129	70		
22	GMA	EP	03 11 53.2				1275	192		
.....										
22	5 10 18.88	52.02 N 178.10 E DEPTH = 175.0 KM						FIXED DEPTH SOLUTION		
		RAT ISLANDS, ALEUTIAN ISLANDS								
22	RAT	IP D	05 10 41.9				29	328	-.4	
22	ANA	IP	05 10 43.3				59	319	.0	
22	AND	IP D	05 10 44.1				78	312	-.1	
22	ASC	IP	05 10 45.6				96	311	.4	
22	SSI	IP	05 10 45.6				103	279	-.1	
22	ASB	IP	05 10 46.3				108	314	.3	
22	ASD	IP C	05 10 46.5	3.2	.1		112	311	.2	
		IS	05 11 5.5						-.8	

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OCT 1973	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
22	9 4	17.03	51.28 N 179.01 W	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
22	ASD	EP	09 04 35.6	2.4	.1	2.60	115	95	-.2	
22	SSI	IP	09 04 36.3				118	125	.0	
22	ASB	IP	09 04 36.9	2.8	.1	2.76	121	94	.2	
		ES	09 04 51.1						-.0	
22	ASC	EP	09 04 37.8				128	98	.0	
22	RAT	EP	09 29 32.7							
		I	09 29 35.1							
		I	09 30 9.4							
22	ANA	EP	09 29 37.7							
22	AND	EP	09 29 39.2							
22	ASC	EP	09 29 43.7							
22	ASB	EP	09 29 44.9							
22	ASD	EP	09 29 45.4							
22	AMA	IP	10 21 16.9							
		IS	10 21 21.6							
22	ASD	EP	10 21 25.5	2.7	.1					
22	ASB	EP	10 21 26.7							
22	ASC	EP	10 21 28.2							
22	SSI	IP	10 21 28.9							
22	AMA	IP	10 34 25.5							
22	ASD	EP	10 34 33.7	1.7	.1					
22	ASB	EP	10 34 34.6							
22	ASC	EP	10 34 36.9							
22	SSI	IP	10 34 37.2							
		IS	10 34 52.1							
22	AMA	IP	10 41 25.0							
22	ASD	EP	10 41 33.5	1.5	.1					
22	ASB	EP	10 41 34.7							
22	ASC	EP	10 41 36.5							
22	SSI	IP	10 41 36.9							
		IS	10 41 51.1							
22	19 44	34.60	51.87 N 179.22 W	DEPTH = 100.0 KM			FIXED DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
22	AMA	IPGC	19 44 51.1				65	353	-.0	
		IS	19 45 3.3						.1	
22	SSI	IP	19 44 52.5				82	91	.0	
22	ASD	IP	19 44 55.2	4.6	.1		114	61	-.2	
22	ASB	EP	19 44 56.0	3.2	.1		120	61	-.1	
		IS	19 45 11.8						.0	
22	ASC	IP	19 44 56.3				121	67	.2	
22	19 58	28.40	51.07 N 174.13 W	DEPTH = 12.0 KM MB = 4.6			TELESEISMIC SOLUTION			
ANDREANOF ISLANDS, ALEUTIAN IS.										
22	ADK	EP	19 58 58.5				193	117	-.3	
		ES	19 59 19.3						-1.7	
22	AMA	IP	19 59 18.3				348	92	.0	
		I(S)	20 00 9.7						15.0	
22	SSI	EP	19 59 30.8				445	99	.6	
22	ASD									

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WIND INTERFERENCE
CE.

TELESEISMIC SOLUTION

TELESEISMIC SOLUTION

FIXED DEPTH SOLUTION

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OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
23	RAT	EP	02 13 50.6				158	192	-.2	
23	SSI	IP D	02 13 57.4				205	217	-.4	
		IS	02 14 22.2						.1	
.....										
23	7 4 1.34		51.69 N 178.66 E				DEPTH = 80.2 KM			FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
23	RAT	IP	07 04 13.3				26	117	-.0	
23	AND	IPG	07 04 13.4				25	306	.1	
		IS	07 04 22.0						-.0	
23	ASC	EP	07 04 14.4				43	307	.1	
23	ASB	EP	07 04 15.2				55	313	.0	
23	ASD	EP	07 04 15.3				59	307	-.2	
.....										
23	7 44 10.94		51.97 N 178.11 E				DEPTH = 149.0 KM			FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
23	RAT	IP C	07 44 31.2				24	321	.1	
23	ANA	IP D	07 44 32.0				54	315	-.1	
23	AND	IP D	07 44 33.0				73	308	-.1	
23	ASC	IP	07 44 34.5				92	308	.2	
23	SSI	IP D	07 44 35.0				102	275	-.0	
23	ASB	IP	07 44 35.2	3.4	.1		104	311	.1	
		ES	07 44 52.8						.0	
23	ASD	EP	07 44 35.3	2.2	.1		107	308	-.1	
.....										
23	ASD	EP	08 32 29.8	2.9	.1					
23	ASC	EP	08 32 30.5							
23	ASB	IP	08 32 30.6	3.9	.1					
23	AND	IP	08 32 31.0							
23	ANA	IP	08 32 31.0							
23	RAT	IP	08 32 34.5							
.....										
23	10 40 16.70		52.42 N 175.97 W				DEPTH = 163.0 KM	MB = 4.5		TELESEISMIC SOLUTION
			ANDREANOF ISLANDS, ALEUTIAN IS.							
23	ADK	IP C	10 40 39.9				73	35	-.5	
		IS	10 40 57.0						-.7	
23	AMA	IP D	10 40 55.7				250	59	-.2	VERY LARGE AMP
23	SSI	IP D	10 41 3.0				309	77	.6	
23	ASD	IP	10 41 6.0				343	68	-.2	
23	ASB	IP	10 41 6.8	442.3	.2		349	68	-.2	
		IS	10 41 42.9						-.8	
23	ASC	EP	10 41 7.2				351	70	.1	
23	AND	IP	10 41 8.3				361	73	-.0	
23	ANA	IP	10 41 10.6				378	74	.3	
23	RAT	IP	10 41 12.9				396	78	.5	
23	GMA	E(P)	10 43 46.8				1674	217	-1.4	
.....										
23	13 26 32.96		51.26 N 179.84 W				DEPTH = 28.5 KM			FREE DEPTH SOLUTION
			DELAROF ISLANDS, ALEUTIAN ISLANDS							
23	AMA	IPG	13 26 42.3				51	267	-.1	
		IS	13 26 49.4						.1	
23	ASD	EP	13 26 43.4				59	103	-.1	
23	ASB	EP	13 26 44.7				65	100	.3	
23	ASC	EPG	13 26 45.5				73	108	-.1	
		IS	13 26 54.7						-.1	
23	SSI	IP C	13 26 46.8				81	150	.0	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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23	AMA	IP C	14 15 24.1							TELE
23	ASD	EP	14 15 35.4							
23	ASB	EP	14 15 36.5							
23	AND	EP	14 15 39.0							
23	ANA	IP	14 15 41.5							

23	15 41 11.08	51.19 N 179.96 W	DEPTH = 32.1 KM	FREE DEPTH SOLUTION						
DELAROF ISLANDS, ALEUTIAN ISLANDS										
23	ASD	IP C	15 41 21.1	3.2	.1	1.49	53	113	.0	
		IS	15 41 28.4						.0	
23	ASC	IP D	15 41 23.2				68	116	.0	
23	SSI	IP C	15 41 25.5				84	158	.0	

23	SSI	IP	17 00 57.8							
		IS	17 01 9.1							
23	ASD	IP C	17 01 2.2	2.9	.1					
23	ASB	IP D	17 01 2.7	2.4	.1					
23	ASC	EP	17 01 2.8							
23	ASD	IP	17 56 3.6							
23	ASC	IP	17 56 4.4							
23	ASB	EP	17 56 4.9							
23	SSI	IPGC	17 56 59.9							
		IS	17 57 3.4							
23	ASD	IPGC	20 52 50.7	9.9	.1					
23	ASC	IP D	20 52 51.3							
23	ASB	IP C	20 52 51.4							
		IS	20 53 55.1							

24	0 9 46.30	56.07 N 158.09 W	DEPTH = 33.0 KM	TELESEISMIC SOLUTION						
ALASKA PENINSULA										
24	GMA	EP	00 12 24.0	1058 169						

24	3 29 35.87	51.30 N 179.84 E	DEPTH = 32.3 KM	FREE DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										
24	ASD	IPGC	03 29 43.7				36	104	-.0	
24	ASB	IPGC	03 29 44.6	7.0	.1	1.46	42	99	.1	
		IS	03 29 50.6						-.1	
24	ASC	IPGC	03 29 45.8				51	111	.2	
24	AND	EPG	03 29 47.7				69	115	-.3	
24	SSI	IPG	03 29 48.1				69	165	.1	
24	AMA	IPGC	03 29 48.6				73	271	-.0	
24	ANA	EPG	03 29 51.2				90	114	.1	

24	RAT	IP C	05 43 50.5	WIND INTERFEREN						
		IS	05 43 59.4							
24	ANA	IP D	05 43 50.9	CE.						
24	AND	IP	05 43 51.1							

24	23 34 48.35	51.44 N 178.53 E	DEPTH = 58.5 KM	FREE DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										
24	ANA	IP	23 34 57.7				23	204	-.0	
24	AND	IPGC	23 34 58.4				32	245	.1	
		IS	23 35 5.6						-.0	
24	ASB	IP	23 34 59.9	11.6	.1		51	280	.0	
24	ASD	IP	23 35 .4	9.7	.1		57	277	-.1	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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25	ADK	EP	02 56 12.4							
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25	5 29 10.01	51.34 N 178.87 E	DEPTH = 48.7 KM	FREE DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										

25	ASC	IPG	05 29 18.3				25	236	-.2	
25	AND	IPGD	05 29 18.6				26	193	.1	
		IS	05 29 24.8						.0	
25	ASB	IPGD	05 29 18.6	11.6	.1	.92	26	264	.0	
25	ASD	IPGD	05 29 19.2	12.0	.1	1.30	33	262	.1	

25	17 10 27.90	50.46 N 177.55 E	DEPTH = 36.0 KM MB = 3.8	TELESEISMIC SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										

25	ASB	IP	17 10 51.2				156	231	-.7	ANA, ASC NOT
		IS	17 11 8.3						-1.1	
25	AND	IP	17 10 51.4				157	219	-.7	IN OPERATION.
25	RAT	IP	17 10 51.7				159	200	-.5	ALL LEVELS
25	ASD	IP	17 10 51.9				162	232	-.7	OVERLOADED.
25	SSI	IP	17 10 59.5				214	223	.5	
25	AMA	IP	17 11 3.6				252	250	-.2	
25	ADK	EP	17 11 21.4				439	251	-5.5	
		ES	17 12 10.5						.6	

25	20 45 10.72	51.22 N 179.28 E	DEPTH = 41.8 KM	FREE DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										

25	ASB	IP C	20 45 17.9				16	172	.0	VERY LARGE AMP.
		I(S)	20 45 23.0						-.1	
25	ASD	IP C	20 45 18.0				18	195	-.0	OVERLOADED.
25	AND	IP C	20 45 20.5				44	149	.1	
25	SSI	IP	20 45 24.6				78	196	.0	
25	RAT	IP D	20 45 26.3				92	134	-.0	

26	ADK	IP	00 27 12.2							
		IS	00 27 25.6							

26	RAT	EP	02 27 54.6							
26	AND	IP C	02 27 56.9							
26	SSI	IP C	02 27 58.4							
26	ASB	IP	02 27 59.1	4.4	.1					
		ES	02 28 16.9							
		I	02 28 18.3							
26	ASD	IP D	02 27 59.3	7.3	.1					
26	AMA	IP D	07 16 31.8							
26	ASD	IP	07 16 39.5	3.6	.1					
		IS	07 16 50.9							
26	ASB	IP	07 16 40.4	1.5	.1					
26	SSI	IP D	07 16 43.0							
		IS	07 16 56.5							
26	AND	IP	07 16 44.7							
26	ANA	IP	07 16 51.3							

26	8 20 16.47	50.66 N 178.73 W	DEPTH = 0.0 KM	FIXED DEPTH SOLUTION						
DELAROF ISLANDS, ALEUTIAN ISLANDS										

26	AMA	IP	08 20 30.7				75	159	.6	
26	ASD	IP C	08 20 43.1	127.1	.4	4.23	157	120	.4	
26	ASB	IP	08 20 43.9				162	118	.5	
		ES	08 20 57.9						-5.1	
26	SSI	IP	08 20 45.2				181	139	-1.0	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
26	ASC	IP	08 20 45.4				172	120	.4	
26	AND	IP C	08 20 47.4				191	121	-.4	
26	ADK	EP	08 20 50.0				202	229	.5	
		ES	08 21 12.9						-.7	
26	ANA	IP	08 20 50.7				212	119	-.3	
26	RAT	IP C	08 20 54.3				241	120	-.4	

26 8.12 57.70 18.17 S 177.87 W DEPTH = 609.0 KM MB = 5.1 TELESEISMIC SOLUTION
FIJI ISLANDS REGION

26 ADK EP 08 23 8.0 7757 181

26	RAT	IP	09 01 39.7							
		IS	09 01 53.4							
26	ANA	IP	09 01 40.7							
26	AND	IP	09 01 41.3							
26	SSI	IP	09 01 42.7							
26	ASC	IP D	09 01 43.0							
26	ASB	EP	09 01 43.5	10.2	.1					
26	ASD	EP	09 01 43.7	6.9	.1					

26 10 21 5.51 51.52 N 179.51 W DEPTH = 29.5 KM FREE DEPTH SOLUTION
DELAROF ISLANDS, ALEUTIAN ISLANDS

26	SSI	IP D	10 21 18.4				75	123	-.0	
		IS	10 21 27.7						-.1	
26	ASD	IP	10 21 19.2				81	78	-.2	
26	ASB	IP	10 21 20.2				88	78	-.2	
26	ASC	IP	10 21 21.4				92	85	.4	
26	AND	IP	10 21 22.8				107	92	-.3	
26	ANA	IP C	10 21 26.6				127	94	.4	
26	RAT	IP	10 21 29.6				152	101	-.1	

26 12 51 9.63 51.41 N 179.36 W DEPTH = 0.0 KM FIXED DEPTH SOLUTION
DELAROF ISLANDS, ALEUTIAN ISLANDS

26	AMA	IPGC	12 51 13.8				22	308	.1	
26	ASD	IPGD	12 51 25.6				90	87	-.1	
26	SSI	IPGC	12 51 26.4				90	126	.7	
26	ASB	IPG	12 51 26.6	199.0	.3	3.77	97	86	-.1	
		IS	12 51 40.0						.9	
26	ASC	IPGC	12 51 27.7				102	93	.2	
26	AND	IPG	12 51 29.9				118	98	-.0	
26	ANA	IPGC	12 51 32.9				139	99	-.2	
26	RAT	IPG	12 51 36.0				165	104	-1.1	

26 GMA EP 13 51 .6

26	ASB	IP D	14 02 22.7	15.1	.1					
		ES	14 02 38.9							
26	ASD	IP C	14 02 23.3	2.9	.1					
26	SSI	IP C	14 02 31.7							

26	ADK	IP D	14 26 53.5							
		IS	14 27 1.2							
26	AMA	EP D	14 27 11.9							
26	SSI	IP	14 27 24.8							
26	ASD	IP	14 27 25.9							
26	ASB	EP	14 27 26.7							
		ES	14 28 6.9							
26	AND	EP	14 27 30.6							
26	GMA	E(P)	14 28 41.5							

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
26	AMA	IPG	15 32 .5							
		IS	15 32 4.8							
26	ASD	EP	15 32 13.0	2.9	.1					
26	ASB	EP	15 32 13.9	2.4	.1					
26	SSI	IP	15 32 15.0							
26	GMA	EP	17 31 9.6							
.....										
26	18 20 12.20		52.01 N 179.39 E	DEPTH = 153.8 KM			FREE DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
26	SSI	IP	18 20 32.9				19	315	.0	
26	ASD	EP	18 20 34.6	6.4	.1		71	3	-.2	
26	ASB	EP	18 20 35.1	8.8	.1		73	8	.2	
		IS	18 20 51.5						.0	
26	RAT	IP	18 20 35.1				77	71	-.0	
.....										
26	20 53 32.40		79.82 N 2.67 E	DEPTH = 32.0 KM			MB = 5.6	MS = 5.7	TELESEISMIC SOLUTION	
			GREENLAND SEA							
26	ADK	EP	21 02 14.6				5399	0		0
		ES	21 09 22.0							
		EL	21 17 20.0							
.....										
26	AMA	IP C	22 56 1.2							
26	ASD	IP	22 56 13.7	10.1	.2					
26	ASB	IP	22 56 14.6	3.9	.1					
26	SSI	IP	22 56 16.0							
		IS	22 56 31.4							
26	ASC	IP	22 56 17.4							
.....										
27	3 40 8.87		52.29 N 177.34 E	DEPTH = 175.0 KM			FIXED DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
27	SSI	IP	03 40 40.1				160	287	.0	
		IS	03 41 2.9						.0	
27	ASB	IP	03 40 40.7				167	309	-.0	
27	ASD	IP C	03 40 41.1	7.1	.1		171	307	.0	
.....										
27	4 16 13.46		50.99 N 179.16 E	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
27	ASB	IP	04 16 21.5				42	188	-.0	
27	ASD	IP	04 16 21.8	6.2	.1	1.51	45	196	-.1	
27	SSI	IP	04 16 30.9				105	196	.2	
		IS	04 16 43.3						-.0	
.....										
27	4 19 13.75		50.98 N 179.15 E	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
27	ASB	IP	04 19 21.9	6.2	.1	1.43	43	189	.0	
27	ASD	EP	04 19 22.2	5.2	.1	1.47	46	197	-.1	
27	SSI	IP	04 19 31.3				106	197	.1	
		IS	04 19 43.8						-.0	
.....										
27	AMA	IP	05 23 21.7							V. HEAVY WIND
		IS	05 23 53.1							
27	SSI	IP	05 23 32.1							INTERFERENCE.

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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27	ASD	IP	05 23 35.9							
27	ASB	IP	05 23 37.9							

27	AMA	IP D	09 04 2.8							
27	SSI	IP	09 04 16.4							
27	ASD	IP	09 04 18.6							
27	ASB	IP	09 04 19.2							
		IS	09 04 35.2							
27	ASC	IP	09 04 20.3							

27	ASD	IPGD	15 23 7.0							
27	ASB	IPGD	15 23 7.6	5.7	.1					
		I(S)	15 23 13.7							
		I	15 23 16.2							
27	ASC	IPG	15 23 7.7							
27	RAT	IPGD	15 23 8.1							
27	AND	IPG	15 23 8.9							

27	AMA	IP	15 58 9.7							
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27	18 57 42.40	51.61 N 178.41 E	DEPTH = 78.8 KM	FREE DEPTH SOLUTION
		RAT ISLANDS, ALEUTIAN ISLANDS		

27	RAT	IPGC	18 57 54.0		21	165	-.1
27	ANA	IPG	18 57 54.0		18	266	.1
27	AND	IPGD	18 57 55.0		38	279	.1
27	ASB	IPG	18 57 56.8	420.2	65	296	-.1
		IS	18 58 7.4				-.1
27	ASD	IPG	18 57 57.4		70	293	.0
27	SSI	IPG	18 57 59.0		87	250	-.0

27	21 59 .20	7.51 N 126.57 E	DEPTH = 84.0 KM MB = 5.1	TELESEISMIC SOLUTION
		MINDANAO, PHILIPPINE ISLANDS		

27	ADK	E(P)	22 09 27.0		7119	247
27	GMA	E(P)	22 10 40.0		8433	257

28	RAT	IP	04 54 24.8				
28	ANA	IP	04 54 30.6				
28	ASB	EP	04 54 33.8				
28	ASD	EPN	04 54 34.2				
		IPG	04 54 35.7	35.7	.1		
		I(S)	04 54 57.4				

28	5 56 8.63	51.39 N 178.32 E	DEPTH = 50.0 KM	FIXED DEPTH SOLUTION
		RAT ISLANDS, ALEUTIAN ISLANDS		

28	ANA	EP	05 56 18.2		36	223	.1
		ES	05 56 25.2				.3
28	RAT	EP	05 56 18.7		46	181	-.3
28	AND	EP	05 56 19.3		48	247	.0
28	ASC	EP	05 56 20.8		59	263	.3
28	ASB	EP	05 56 21.1		65	273	.0
		IS	05 56 30.0				-.2
28	ASD	IP	05 56 21.8	7.6	.1	2.33	71 272
		ES	05 56 31.1				-.4

28	6 28 10.39	52.25 N 178.53 E	DEPTH = 125.0 KM	FIXED DEPTH SOLUTION
		RAT ISLANDS, ALEUTIAN ISLANDS		

28	RAT	IP C	06 28 28.6		52	15	-.2
		I	06 28 28.8				

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
		IS	06 28 42.1						-.1	
28	ANA	EP	06 28 30.0				70	353	.2	
28	AND	IP C	06 28 30.8				82	339	.2	
		IS	06 28 45.6						.2	
28	ASC	EP	06 28 32.1				98	334	.2	
28	ASB	EP	06 28 32.8				111	334	-.2	
		ES	06 28 49.3						-.1	
28	ASD	IP	06 28 32.8	10.5	.1		112	330	-.3	

28	ADK	EP	09 46 25.9							
		ES	09 46 54.2							

28	AMA	IP C	20 44 35.9							NOISY
28	ASD	EPN	20 44 50.7							
		IPG	20 44 51.7	4.9	.1					
		I(S)	20 45 8.0							

28 21 32 9.83 51.79 N 178.81 E DEPTH = 93.8 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

28	AND	EPG	21 32 23.5				27	338	.0	
		IS	21 32 33.4						-.0	
28	RAT	IPGC	21 32 23.7				33	92	-.0	
28	ASC	EPG	21 32 24.5				44	326	.2	
28	ASB	IPG	21 32 25.1	18.6	.1		57	328	-.0	
		IS	21 32 36.3						.1	
28	ASD	IPG	21 32 25.1	8.7	.1		59	321	-.2	
		IS	21 32 36.5						-.0	

29	AMA	IP	00 29 26.5							
29	ASD	EP	00 29 40.5	4.2	.1					
		IS	00 30 .7							
29	ASB	IP	00 29 42.8							

29 0 57 42.80 54.17 N 164.63 W DEPTH = 27.0 KM MB = 5.3 TELESEISMIC SOLUTION
UNIMAK ISLAND REGION

29	ADK	EP	00 59 35.4				841	68		
		E	00 59 50.6							
29	AMA	IP	00 59 57.1				1028	66		UNABLE TO SEE
29	ASD	IP	01 00 8.7				1124	68		DISTINCT S.
29	ASB	IP	01 00 9.5				1131	68		
		E(S)	01 00 28.8							
29	ASC	IP	01 00 9.9				1132	68		
29	AND	EP	01 00 11.1				1141	69		
29	ANA	EP	01 00 14.7				1158	69		
29	RAT	EP	01 00 16.6				1173	70		
29	GMA	EP	01 00 30.5				1270	190		

29 1 54 34.69 51.47 N 179.31 E DEPTH = 58.3 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

29	ASD	IP	01 54 43.5	5.6	.1		11	350	-.1	
		IS	01 54 50.0						-.1	
29	ASC	IP	01 54 43.7				10	83	.1	
29	ASB	IP	01 54 43.7	14.7	.1		13	20	.0	
29	AND	IP	01 54 44.3				27	111	.0	
29	RAT	IP	01 54 48.9				77	118	-.0	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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29	3 20	15.36	51.29 N 179.36 E DEPTH = 48.1 KM					FREE DEPTH SOLUTION		
RAT ISLANDS, ALEUTIAN ISLANDS										

29	ASD	IP C	03 20 23.0	6.7	.1		9	173	.0	
29	ASB	IP	03 20 23.0	8.2	.1	-.68	11	134	-.0	
29	ASC	IP	03 20 23.7				23	145	.1	
29	AND	IPG	03 20 25.0				41	137	-.1	
		IS	03 20 32.3						.0	
29	RAT	IP	03 20 30.9				91	128	.0	

29	5 4	17.39	51.37 N 178.74 E DEPTH = 36.0 KM					FREE DEPTH SOLUTION		
RAT ISLANDS, ALEUTIAN ISLANDS										

29	AND	IP	05 04 24.5				26	215	-.1	
29	ASC	IP	05 04 25.2				31	251	.1	
29	ASB	IP	05 04 25.5				35	272	-.0	
29	ASD	IPG	05 04 26.2	2.9	.1	1.06	42	269	-.1	
		IS	05 04 32.7						-.0	

29	AMA	IP	05 18 10.8							
29	ADK	EP	05 18 20.2							
		ES	05 18 34.8							
29	ASD	EP	05 18 24.1	9.8	.1					
29	ASB	EP	05 18 26.1							
		E(S)	05 18 46.3							
29	ASC	EP	05 18 26.8							
29	AND	EP	05 18 29.6							
29	RAT	EP	05 18 35.0							

29	ASD	IP C	07 31 24.1	4.5	.1					
		IS	07 31 31.1							
29	ASB	IP C	07 31 24.4	3.0	.1					
29	AND	IP	07 31 28.1							

29	AMA	IP	09 08 27.0							
		I	09 08 27.5							
29	ASD	IP D	09 08 38.0							
		I	09 08 38.7	7.7	.1					
29	ASB	IP	09 08 38.6	12.1	.1					
29	ASC	IP	09 08 39.6							

29	ASB	IP	12 29 2.7							
29	AND	IP D	12 29 3.0							
29	ASD	IPG	12 29 3.5	1.3	.1					
		IS	12 29 16.0							

29	AMA	IP	14 34 45.2							
		IS	14 34 55.0							
29	ASD	IP	14 35 .3	1.3	.1					
29	ASB	IP	14 35 1.1							
		ES	14 35 24.0							

29	16 10	29.31	51.23 N 178.76 E DEPTH = 25.0 KM					FIXED DEPTH SOLUTION		
RAT ISLANDS, ALEUTIAN ISLANDS										

29	ASB	IPGD	16 10 36.7	3.7	.1	.95	37	248	.1	
		IS	16 10 42.0						.1	
29	AND	EPG	16 10 36.9				39	200	-.0	
29	ASD	IPG	16 10 37.4	1.3	.1	.76	43	249	-.1	
		IS	16 10 43.4						-.1	

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
29	17 22	41.60	51.72 N 179.61 W	DEPTH = 100.0 KM			FIXED DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
29	ASD	IP	17 22 59.5	5.5	.1		83	62	-.0	
		IS	17 23 12.5						-.1	
29	ASB	IP	17 23 0.0	4.7	.1		89	63	-.1	
		IS	17 23 13.6						.0	
29	ASC	EP	17 23 .2				90	71	.1	
29	AND	EP	17 23 1.1				101	79	-.1	
29	ANA	IP	17 23 3.4				120	84	.3	
29	RAT	IP	17 23 5.2				143	93	-.2	
.....										
29	AMA	IP D	18 31 23.1							
29	ASD	IP D	18 31 36.8	2.2	.1					
29	ASB	IP	18 31 37.7							
		ES	18 31 58.7							
29	ADK	EP	18 31 38.2							
		ES	18 31 57.3							
29	ASC	IP	18 31 38.9							
29	AND	IP	18 31 41.9							
29	RAT	EP	18 31 47.9							
.....										
29	19 45	11.15	52.00 N 179.47 W	DEPTH = 131.5 KM			FREE DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
29	AMA	IP	19 45 32.0				83	343	-.1	
29	ASB	IP	19 45 33.8				114	51	-.7	
29	ASD	IP C	19 45 34.5	3.1	.1		107	49	.5	
		IS	19 45 50.5						-.1	
29	ASC	IP	19 45 34.8				111	57	.5	
29	AND	IP C	19 45 35.5				119	65	.5	
29	ANA	IP	19 45 35.9				135	71	-.5	
29	RAT	IP	19 45 38.0				153	81	-.1	
.....										
29	ASD	IPGC	19 54 21.6	16.7	.1					
29	ASC	IPGD	19 54 22.1							
29	ASB	IPGC	19 54 22.7							
		IS	19 54 29.6							
29	AND	IPGC	19 54 23.0							
29	ANA	IPGC	19 54 25.8							
29	RAT	IPGD	19 54 28.9							
29	AMA	IPGC	19 54 29.4							
.....										
29	21 59	36.46	52.14 N 179.38 E	DEPTH = 179.4 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
29	AND	IP	22 00 1.9				71	24	-.0	
29	ANA	IP	22 00 2.2				76	40	.0	
29	RAT	IP C	22 00 2.4				82	62	-.1	
29	ASC	IP	22 00 2.4				77	11	.2	
29	ASD	IP	22 00 2.5	19.2	.1		85	2	-.2	
29	ASB	IP	22 00 2.8				88	6	.0	
		ES	22 00 22.0						-.0	
.....										
29	ASD	EP	23 27 12.2							
		ES	23 27 26.8							
29	ASB	IP	23 27 13.8	7.0	.1					
29	ASC	EP	23 27 14.4							
30	RAT	IP	00 23 56.0							
		I(S)	00 24 11.1							
30	ANA	EP	00 23 59.8							
30	AND	IP	00 24 2.5							

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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FIXED DEPTH SOLUTION

30	5	24	46.16	50.85 N	178.24 E	DEPTH = 50.0 KM				
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASB	IPGC	05 25	1.6	101.3	.2	3.55	91	231	-.1
		IS	05 25	13.0						-.0
30	ANA	IPG	05 25	2.0				92	199	.2
30	AND	IPG	05 25	2.0				94	212	-.1
30	ASC	IPG	05 25	2.2				94	224	.1
30	ASD	IPG	05 25	2.5				97	233	.0
30	RAT	IPG	05 25	3.5				106	183	-.1

FIXED DEPTH SOLUTION

30	6	25	55.57	50.85 N	178.26 E	DEPTH = 75.0 KM				
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASB	IPG	06 26	12.0	6.5	.1		89	231	-.1
30	AND	IPGD	06 26	12.4				92	212	-.1
30	ANA	IPG	06 26	12.4				90	198	.1
30	ASC	EPG	06 26	12.6				92	223	.1
30	ASD	IPG	06 26	12.8				95	233	.0
		IS	06 26	25.3						-.0
30	RAT	IPG	06 26	13.8				105	182	-.1

30	RAT	IP C	07 02	6.9						
30	ANA	IP	07 02	9.7						
30	AND	IP	07 02	11.6						
30	ASB	EP	07 02	12.7						
		IS	07 02	18.0						
30	ASD	EP	07 02	14.0						

30	ASD	IP C	09 24	10.3	6.0	.1				
30	ASB	EP	09 24	11.0	2.8	.1				
		ES	09 24	19.2						
30	ASC	IP C	09 24	12.6						
30	AND	EP	09 24	15.1						

30	AMA	IP	11 31	7.6						
		IS	11 31	18.2						
30	ASD	EP	11 31	13.2	2.0	.1				
30	ASB	EP	11 31	13.7	.9	.1				
30	AND	EP	11 31	17.2						

FREE DEPTH SOLUTION

30	11	53	31.46	51.52 N	179.49 E	DEPTH = 14.2 KM				
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASD	IP C	11 53	35.6	6.2	.1	.10	19	35	.0
30	ASC	EP	11 53	36.3				24	76	.0
30	ASB	EP	11 53	36.4	1.2	.1	-.19	24	45	.0
		ES	11 53	40.0						.0

NO S VISIBLE.

30	ASD	EP	13 00	55.6						
30	ASB	EP	13 00	56.4						
30	ASC	IP	13 00	57.0						

FIXED DEPTH SOLUTION

30	14	56	51.63	51.59 N	179.37 W	DEPTH = 50.0 KM				
DELAROF ISLANDS, ALEUTIAN ISLANDS										
30	AMA	IP C	14 57	1.3				38	332	.0
30	ASD	IP	14 57	7.1	4.6	.1	2.54	92	75	-.3
		IS	14 57	19.0						.2
30	ASB	EP C	14 57	8.1	4.7	.1	2.66	99	75	-.1
30	ASC	EP	14 57	8.8				102	82	.2

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
30	AND	EP	14 57 10.3				116	88	.0	
30	15 32 52.92		51.94 N 179.50 E							FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
30	AND	EP	15 33 16.7				56	42	.1	
30	ASD	EP	15 33 16.8	1.5	.1		63	10	-.1	
		IS	15 33 34.4						-.0	
30	ASP	EP	15 33 17.1	1.4	.1		67	15	.1	
30	RAT	EP	15 33 17.8				82	79	-.0	
30	AMA	IPGD	16 06 58.4							
		IS	16 07 3.1							
30	ASD	EP	16 07 6.1							
		I	16 07 7.0	12.7	.2					
30	ASB	EP	16 07 7.1	10.3	.2					
		IS	16 07 18.7							
30	ASC	EP	16 07 8.3							
30	AND	EP	16 07 11.0							
30	ANA	EP	16 07 14.9							
30	RAT	IP C	16 07 15.9							
30	AMA	IP C	16 43 20.1							
30	ASD	IPG	16 43 25.7	5.2	.1					
		IS	16 43 37.5							
30	ASB	EPG	16 43 26.4	10.3	.2					
		IS	16 43 38.9							
30	ASC	EP	16 43 27.3							
30	AND	EP	16 43 28.9							
30	AMA	IPGD	17 14 32.5							
		IS	17 14 37.6							
30	ASD	IP	17 14 40.5	2.7	.1					
30	ASB	EP	17 14 41.0	1.8	.1					
30	ASC	IP D	17 14 42.5							
30	19 6 28.11		52.09 N 179.14 E							FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
30	AND	IP C	19 06 54.6				60	12	-.0	
30	RAT	IP D	19 06 54.7				64	60	-.1	
30	ANA	IP	19 06 54.8				61	33	-.2	
30	ASC	IP	19 06 55.0				70	359	-.0	
30	ASD	IP C	19 06 55.4	6.6	.1		80	350	-.1	
30	ASB	EP	19 06 55.6	7.0	.1		81	355	.0	
		ES	19 07 15.6						.0	
30	AMA	EP	19 07 .1				150	307	.0	
30	21 1 16.90		51.51 N 178.24 E							FIXED DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
30	RAT	IP D	21 01 25.8				32	191	-.3	
30	ANA	IP D	21 01 26.2				31	247	.2	
30	AND	IP D	21 01 27.6				49	264	-.1	
30	ASB	IP	21 01 29.7	30.9	.1	2.95	72	284	-.5	
		IS	21 01 39.5						-.3	
30	ASD	IP D	21 01 30.5	28.8	.1	3.05	78	282	-.4	
30	AMA	EP	21 01 44.9				185	279	.8	
30	AND	IP C	21 24 47.5							
30	ASC	IP	21 24 48.0							
30	ANA	IP	21 24 48.3							

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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30	ASB	IP D	21 24 48.4	12.0	.1					
		ES	21 25 25.8							
30	ASD	IP C	21 24 48.7	14.4	.1					
31	AMA	IP C	03 28 12.9							
		I	03 28 18.5							
31	ASD	IP	03 28 27.6							
		I	03 28 29.0	3.6	.1					
31	ASB	EP	03 28 28.4	1.8	.1					

.....
 31 5 7 6.01 51.38 N 178.58 E DEPTH = 54.0 KM FREE DEPTH SOLUTION
 RAT ISLANDS, ALEUTIAN ISLANDS

31	ANA	IPG	05 07 15.3				28	191	.0	
31	AND	IPG	05 07 15.5				33	231	-.1	
31	ASC	IPG	05 07 16.4				42	257	.1	
31	ASB	IPGC	05 07 16.7	6.6	.1		46	272	-.0	
31	ASD	IPG	05 07 17.4	8.8	.1		53	270	.0	
		IS	05 07 25.7						.0	

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 31 6 27 55.26 50.97 N 179.44 W DEPTH = 50.0 KM FIXED DEPTH SOLUTION
 DELAROF ISLANDS, ALEUTIAN ISLANDS

31	AMA	IPG	06 28 5.6				43	213	.3	
		IS	06 28 12.4						-.3	
31	ASD	IPGC	06 28 11.4	4.9	.1	2.64	97	118	-.1	
31	ASB	EPG	06 28 12.1	8.5	.1	2.96	102	115	-.1	
		IS	06 28 24.8						.3	
31	ASC	EPG	06 28 13.3				112	119	-.1	

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31	AMA	IP D	09 08 24.7							
31	ASD	IP C	09 08 36.8	3.4	.1					
31	ASB	EP	09 08 37.4	7.6	.2					
		IS	09 08 53.6							

31	GMA	E(P)	14 58 43.0							
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31	GMA	EP	15 53 13.5							
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 31 16 8 41.70 51.21 N 179.38 W DEPTH = 39.0 KM MB = 5.0 TELESEISMIC SOLUTION
 DELAROF ISLANDS, ALEUTIAN ISLANDS

31	AMA	IP D	16 08 48.3				21	245	-.5	VERY LARGE. ALL
31	ASD	IP D	16 08 56.8				91	101	-.6	LEVELS OVERLOAD
31	ASB	IP	16 08 57.4				97	99	-.8	
31	ASC	IP	16 08 59.1				105	105	-.1	
31	AND	IP	16 09 1.0				123	108	-.3	
31	ANA	IP	16 09 4.2				144	108	.2	
31	RAT	IP	16 09 7.9				172	112	.5	
31	ADK	EP C	16 09 11.9				208	250	.1	FELT ML 4.9
		ES	16 09 36.2						2.4	

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31	AMA	IP	16 15 16.6							
31	ASD	IP	16 15 27.5	3.1	.1					
		E(S)	16 15 38.8							
31	ASB	IP	16 15 28.9	2.9	.1					
31	ASC	IP	16 15 29.4							

31	AMA	IPGD	16 47 7.5							
31	ASD	IP	16 47 16.4	29.1	.2					
31	ASB	EP	16 47 17.1							
		ES	16 47 30.3							
31	ASC	IP	16 47 18.9							

OCT 1970	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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31	AND	EP	16 47 21.4							
31	ANA	IP	16 47 24.6							
31	RAT	EP	16 47 28.1							
31	ADK	EP	16 47 33.9							
		ES	16 47 56.5							

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31	17 53	9.30	4.93 S 145.47 E	DEPTH = 42.0 KM	MB = 6.0	MS = 7.0	TELESEISMIC SOLUTION			
NEAR NORTH COAST OF NEW GUINEA										
31	ASD	EP	18 03 34.8				7019	219		TELESEISMIC
31	ASB	EP	18 03 34.8				7014	218		
31	AND	EP	18 03 34.8				7019	218		
31	RAT	EP	18 03 34.8				7013	217		
31	AMA	EP	18 03 38.9				7080	220		
31	ADK	EP	18 03 47.6				7246	222		MS 7.1
		EL	18 20 15.0							
		ER	18 23 35.0							

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31	21 37	55.95	51.30 N 179.56 W	DEPTH = 66.2 KM	FREE DEPTH SOLUTION					
DELAROF ISLANDS, ALEUTIAN ISLANDS										
31	AMA	IPGC	21 38 6.7				32	273	.0	
31	ASD	IPGC	21 38 10.5	2.5	.1		77	96	-.1	
31	ASB	EPG	21 38 11.3	2.2	.1		83	94	.0	
		ES	21 38 22.5						.0	
31	ASC	IPG	21 38 12.2				90	101	.1	
31	AND	IPG	21 38 13.9				107	105	-.1	
31	ANA	IPG	21 38 16.6				128	106	.1	
31	RAT	IPG	21 38 19.7				156	110	-.1	

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31	22 51	5.24	51.00 N 178.36 E	DEPTH = 0.0 KM	FIXED DEPTH SOLUTION					
RAT ISLANDS, ALEUTIAN ISLANDS										
31	ANA	IP	22 51 18.3				73	197	-.1	
31	AND	IP	22 51 18.7				75	214	-.2	
31	ASB	EP	22 51 18.8	10.7	.1	2.54	74	238	.1	
		ES	22 51 28.6						.1	
31	ASD	EP	22 51 19.7	2.5	.1	2.05	80	239	-.1	
31	RAT	EP	22 51 21.3				89	179	.2	

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31	AMA	IP C	23 40 8.3							
31	ASD	EP	23 40 23.5	3.1	.1					
31	ASB	IP	23 40 24.8	4.4	.1					
		ES	23 40 44.9							
31	ASC	IP	23 40 25.9							

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OCT 1970	ORIGIN TIME (GMT)	LAT	LONG	DEPTH* (KM)	MB	MS	GEOGRAPHIC REGION
01	1 6 32.04	51.68 N	178.83 E	86.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
01	2 46 16.98	51.26 N	179.40 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
01	5 59 50.26	52.06 N	178.59 E	160.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
01	6 8 38.78	51.40 N	179.18 W	0.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
01	6 32 7.98	51.44 N	179.85 E	25.0/D			RAT ISLANDS, ALEUTIAN ISLANDS
01	7 19 40.39	51.51 N	178.88 E	66.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
01	9 42 28.60	46.85 N	143.64 E	385.0 T	5.0		SAKHALIN ISLAND
01	12 38 40.10	51.81 N	178.31 E	84.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
01	12 43 49.68	51.64 N	179.57 E	102.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
01	14 21 36.75	51.43 N	179.27 E	60.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
02	5 41 3.70	6.80 S	154.99 E	54.0 T	5.0		SOLOMON ISLANDS
02	5 55 40.90	62.35 N	151.57 W	84.0 T	4.1		CENTRAL ALASKA
02	6 15 32.80	6.82 S	154.91 E	54.0 T	5.4		SOLOMON ISLANDS
02	9 34 27.40	52.92 N	173.15 W	127.0 T	4.3		ANDREANOF ISLANDS, ALEUTIAN IS.
02	9 47 12.21	51.71 N	179.85 E	54.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
02	13 6 52.75	51.54 N	179.78 E	62.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
02	22 33 33.81	51.27 N	178.63 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
3	0 16 25.90	55.23 N	163.18 E	31.0 T	5.2		OFF EAST COAST OF KAMCHATKA
03	1 54 47.56	51.77 N	179.69 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
03	2 5 12.84	51.72 N	179.32 W	75.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
03	5 44 22.40	48.36 N	146.65 E	472.0 T	4.1		KURILE ISLANDS
03	7 5 15.30	52.64 N	165.07 W	33.0 T	3.6		ALEUTIAN ISLANDS REGION
03	8 12 20.80	58.36 N	150.52 W	25.0 T	5.0	4.7	GULF OF ALASKA
03	11 57 43.41	51.71 N	179.79 E	86.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
03	13 1 8.47	50.97 N	178.69 E	39.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
04	3 37 13.75	51.55 N	178.95 E	76.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
04	12 15 21.16	51.42 N	179.58 W	25.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
04	17 54 31.98	51.20 N	179.88 W	25.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
04	21 14 51.30	51.58 N	178.91 E	67.0 T	3.5		RAT ISLANDS, ALEUTIAN ISLANDS
05	14 16 37.53	51.89 N	178.13 E	152.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
05	14 26 9.80	20.55 S	178.22 W	545.0 T	4.7		FIJI ISLANDS REGION

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OCT 1970	ORIGIN TIME (GMT)	LAT	LONG	DEPTH* (KM)	MB	MS	GEOGRAPHIC REGION
05	17 17 50.38	51.61 N	179.38 E	78.1 F			RAT ISLANDS, ALEUTIAN ISLANDS
05	17 39 9.75	51.86 N	178.68 W	125.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
05	19 7 30.40	58.08 N	156.70 W	127.0 T	4.6		ALASKA PENINSULA
05	23 43 17.04	51.57 N	178.86 E	71.1 F			RAT ISLANDS, ALEUTIAN ISLANDS
06	2 1 52.17	51.14 N	177.58 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
06	17 4 21.27	51.26 N	179.85 W	25.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
06	18 19 45.15	51.27 N	179.74 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
06	19 46 30.34	51.62 N	179.86 E	194.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
06	21 2 24.93	51.17 N	179.98 E	45.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
07	0 17 7.10	51.50 N	179.96 W	82.0 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
07	5 54 24.27	51.40 N	179.72 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
07	10 28 48.61	51.19 N	179.75 W	25.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
07	12 6 42.97	51.01 N	179.12 W	0.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
07	16 1 10.30	50.50 N	177.66 E	41.0 T	4.9		RAT ISLANDS, ALEUTIAN ISLANDS
07	21 6 37.02	50.46 N	177.73 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
08	1 43 30.40	47.93 N	146.75 E	490.0 T	4.6		KURILE ISLANDS
08	4 53 21.80	53.83 N	160.45 E	53.0 T	5.6		NEAR EAST COAST OF KAMCHATKA
08	6 59 10.60	21.63 S	179.05 W	577.0 T	5.0		FIJI ISLANDS REGION
08	12 3 44.57	51.29 N	178.63 E	26.1 F			RAT ISLANDS, ALEUTIAN ISLANDS
08	13 2 4.70	50.45 N	176.20 W	38.0 T	5.1		ANDREANOF ISLANDS, ALEUTIAN IS.
08	15 9 16.70	51.81 N	178.84 W	150.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
08	21 2 .06	51.73 N	179.39 E	73.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
08	23 36 9.70	43.80 N	147.43 E	15.0 T	5.8	5.6	KURIL ISLANDS
09	8 53 5.50	49.96 N	173.86 W	60.0 T	3.7		ANDREANOF ISLANDS, ALEUTIAN IS.
09	9 35 48.01	51.37 N	178.76 E	39.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
09	11 7 20.20	51.38 N	178.42 W	41.0 T	5.2		DELAROF ISLANDS, ALEUTIAN ISLANDS
09	13 23 13.20	51.66 N	177.73 E	75.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
09	15 35 29.40	51.53 N	178.82 E	72.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
09	17 24 57.12	51.17 N	179.13 E	41.1 F			RAT ISLANDS, ALEUTIAN ISLANDS
10	0 16 49.10	50.18 N	178.59 W	33.0 T	4.6		DELAROF ISLANDS, ALEUTIAN ISLANDS
10	1 0 56.30	51.62 N	179.99 W	25.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS

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OCT 1970	ORIGIN TIME (GMT)	LAT	LONG	DEPTH* (KM)	MB	MS	GEOGRAPHIC REGION
10	3 29 20.37	51.16 N	178.65 E	37.9 F			RAT ISLANDS, ALEUTIAN ISLANDS
10	10 30 29.80	16.41 N	100.42 W	33.0 T	4.9		NEAR COAST OF GUERRERO, MEXICO
10	16 59 54.07	51.47 N	179.34 E	59.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
10	18 8 30.00	51.75 N	179.12 E	118.9 F			RAT ISLANDS, ALEUTIAN ISLANDS
10	21 59 42.90	31.90 S	177.93 W	33.0 T	5.9	6.2	KERMADEC ISLANDS REGION
11	0 31 12.81	51.36 N	178.84 E	40.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
11	2 19 26.56	51.52 N	179.96 W	67.7 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
11	3 16 49.60	31.81 S	178.13 W	33.0 T	5.6	6.3	KERMADEC ISLANDS REGION
11	5 48 46.45	51.61 N	179.69 W	87.2 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
11	9 39 17.58	51.10 N	178.97 E	14.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
11	12 35 26.26	52.08 N	179.79 W	175.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
11	13 35 44.43	51.51 N	177.30 E	150.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
11	14 25 41.02	51.39 N	179.89 E	7.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
11	16 8 29.75	51.20 N	178.59 E	38.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
11	16 59 20.54	51.40 N	179.96 W	73.2 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
11	20 53 24.62	51.56 N	179.71 E	61.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
11	23 34 18.65	51.40 N	179.24 E	38.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
12	6 46 50.49	51.55 N	177.78 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
12	9 9 48.92	51.42 N	179.18 E	20.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
12	9 33 36.60	42.75 N	131.03 E	555.0 T	5.2		E. RUSSIA-N.E. CHINA BORDER REG.
12	18 4 36.40	51.86 N	175.38 W	68.0 T	4.2		ANDREANOF ISLANDS, ALEUTIAN IS.
12	18 25 47.92	51.63 N	178.06 E	130.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
13	10 39 28.88	51.87 N	179.11 E	166.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
13	18 53 30.00	4.06 S	143.03 E	120.0 T	5.7		NEW GUINEA
13	20 32 3.04	51.17 N	178.36 E	35.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
14	1 20 34.26	51.49 N	178.57 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
14	1 49 35.33	51.13 N	179.64 E	36.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
14	1 52 10.63	51.38 N	179.61 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
14	2 44 5.39	51.59 N	178.93 E	69.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
14	3 49 43.21	51.32 N	178.21 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
14	3 51 53.40	51.23 N	178.25 W	31.0 T	4.0		ANDREANOF ISLANDS, ALEUTIAN IS.

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OCT 1970	ORIGIN TIME (GMT)	LAT	LONG	DEPTH* (KM)	MB	MS	GEOGRAPHIC REGION
14	5 17 10.21	51.58 N	179.85 E	65.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
14	5 59 57.10	73.32 N	55.15 E	0.0 T	6.7	5.1	NOVAYA ZEMLYA
14	6 15 46.06	51.57 N	179.60 E	65.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
14	10 15 30.54	51.23 N	179.26 E	41.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
14	10 19 23.21	51.32 N	179.32 E	40.1 F			RAT ISLANDS, ALEUTIAN ISLANDS
14	10 40 58.00	18.06 S	178.46 W	609.0 T	5.3		FIJI ISLANDS REGION
14	11 47 3.84	51.56 N	178.22 E	74.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
14	14 30 0.00	37.07 N	116.01 W	0.0 T	5.5		SOUTHERN NEVADA
14	16 8 34.10	43.40 N	148.04 E	42.0 T	5.2		KURIL ISLANDS REGION
14	18 15 37.30	43.52 N	147.97 E	30.0 T	5.5	6.0	KURIL ISLANDS REGION
15	12 13 23.60	17.61 S	178.84 W	564.0 T	5.1		FIJI ISLANDS REGION
15	19 7 21.59	51.36 N	179.66 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
15	20 6 14.21	51.61 N	179.19 E	75.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
15	21 4 42.86	51.57 N	178.81 E	20.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
16	0 30 53.60	51.79 N	178.57 E	100.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
16	1 9 35.25	51.77 N	176.94 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
16	3 31 8.58	51.26 N	179.77 E	57.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
16	5 26 13.30	39.26 N	140.70 E	24.0 T	5.9	5.8	HONSHU, JAPAN
16	7 50 .63	51.25 N	179.97 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
16	16 11 50.50	53.01 N	167.66 W	45.0 T	4.2		FOX ISLANDS, ALEUTIAN ISLANDS
16	21 17 55.52	51.52 N	179.60 E	73.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
17	1 39 57.96	51.40 N	179.77 W	13.4 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
17	5 26 40.94	51.72 N	179.46 W	94.4 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
17	6 48 20.56	51.10 N	178.69 E	47.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
17	11 53 25.06	51.39 N	178.47 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
17	14 16 42.31	52.06 N	179.79 E	170.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
17	15 9 22.69	51.50 N	179.50 E	19.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
17	22 32 46.25	50.24 N	178.43 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
17	23 5 32.90	51.55 N	178.95 E	53.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
18	1 7 20.90	25.69 S	178.59 E	572.0 T	4.9		SOUTH OF FIJI ISLANDS
18	6 4 0.00	49.66 N	153.13 E	231.0 T	4.8		KURIL ISLANDS

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OCT 1970	ORIGIN TIME (GMT)	LAT	LONG	DEPTH* (KM)	MB	MS	GEOGRAPHIC REGION
18	9 19 33.20	16.74 S	172.09 W	35.0 T	5.5	5.1	SAMOA ISLANDS REGION
18	14 38 59.59	51.58 N	179.30 W	75.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
18	17 41 30.60	51.22 N	179.13 E	49.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
18	19 0 16.82	51.07 N	179.41 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
18	20 9 22.02	51.80 N	177.99 E	79.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
18	21 35 11.98	51.04 N	179.40 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
18	21 48 25.70	51.49 N	178.96 E	20.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
18	23 9 54.31	50.99 N	179.57 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
19	4 31 9.28	51.05 N	179.27 E	20.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
20	3 41 11.98	51.05 N	179.91 W	28.5 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
20	7 1 2.99	51.45 N	179.64 E	74.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
20	8 23 55.76	51.39 N	177.32 E	0.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
20	10 20 58.65	51.24 N	179.95 W	37.3 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
20	10 24 1.09	51.40 N	179.73 E	10.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
20	13 8 59.70	51.26 N	178.47 W	49.0 T	4.7		DELAROF ISLANDS, ALEUTIAN ISLANDS
20	14 27 4.01	51.73 N	178.97 E	86.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
20	17 10 52.98	51.78 N	178.97 E	90.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
20	19 5 28.55	52.02 N	179.36 E	181.9 F			RAT ISLANDS, ALEUTIAN ISLANDS
20	22 57 13.28	51.76 N	179.64 E	108.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
20	23 2 29.39	51.70 N	178.79 E	85.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
20	23 14 34.37	51.38 N	179.60 E	56.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
21	12 30 49.48	51.07 N	179.96 W	29.5 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
21	12 35 43.70	51.44 N	174.25 W	21.0 T	5.1		ANDREANOF ISLANDS, ALEUTIAN IS.
21	15 12 31.40	53.30 N	161.62 W	33.0 T	4.3		SOUTH OF ALASKA
21	16 20 29.28	51.01 N	178.98 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
21	17 56 10.10	62.43 N	151.10 W	102.0 T			CENTRAL ALASKA
21	18 36 30.60	50.70 N	178.62 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
21	19 16 46.01	51.66 N	178.65 E	65.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
21	21 19 .43	50.91 N	179.41 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
22	2 19 34.71	52.01 N	178.14 E	112.1 F			RAT ISLANDS, ALEUTIAN ISLANDS
22	2 56 45.36	51.38 N	179.23 E	24.3 F			RAT ISLANDS, ALEUTIAN ISLANDS

OCT 1979	ORIGIN TIME (GMT)	LAT	LONG	DEPTH* (KM)	MB	MS	GEOGRAPHIC REGION
22	3 9 5.20	54.18 N	165.31 W	65.0 T	4.8		FOX ISLANDS, ALEUTIAN ISLANDS
22	5 10 18.88	52.02 N	178.10 E	175.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
22	9 4 17.03	51.28 N	179.01 W	25.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
22	19 44 34.60	51.87 N	179.22 W	100.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
22	19 58 28.40	51.07 N	174.13 W	12.0 T	4.6		ANDREANOF ISLANDS, ALEUTIAN IS.
22	20 52 24.30	51.39 N	174.55 W	42.0 T	4.4		ANDREANOF ISLANDS, ALEUTIAN IS.
22	23 55 20.00	48.05 N	145.49 E	479.0 T	5.1		SEA OF OKHOTSK
23	2 13 24.36	50.41 N	177.86 E	0.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
23	7 4 1.34	51.69 N	178.66 E	80.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
23	7 44 10.94	51.97 N	178.11 E	149.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
23	10 40 16.70	52.42 N	175.97 W	163.0 T	4.5		ANDREANOF ISLANDS, ALEUTIAN IS.
23	13 26 32.96	51.26 N	179.84 W	28.5 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
23	15 41 11.08	51.19 N	179.96 W	32.1 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
24	0 9 46.30	56.07 N	158.09 W	33.0 T	4.6		ALASKA PENINSULA
24	3 29 35.87	51.30 N	179.84 E	32.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
24	23 34 48.35	51.44 N	178.53 E	58.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
25	5 29 10.01	51.34 N	178.87 E	48.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
25	17 10 27.90	50.46 N	177.55 E	36.0 T	3.8		RAT ISLANDS, ALEUTIAN ISLANDS
25	20 45 10.72	51.22 N	179.28 E	41.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
26	8 20 16.47	50.66 N	178.73 W	0.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
26	8 12 57.70	18.17 S	177.87 W	609.0 T	5.1		FIJI ISLANDS REGION
26	10 21 5.51	51.52 N	179.51 W	29.5 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
26	12 51 9.63	51.41 N	179.36 W	0.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
26	18 20 12.20	52.01 N	179.39 E	153.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
26	20 53 32.40	79.82 N	2.67 E	32.0 T	5.6	5.7	GREENLAND SEA
27	3 40 8.87	52.29 N	177.34 E	175.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
27	4 16 13.46	50.99 N	179.16 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
27	4 19 13.75	50.98 N	179.15 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
27	18 57 42.40	51.61 N	178.41 E	78.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
27	21 59 .20	7.51 N	126.57 E	84.0 T	5.1		MINDANAO, PHILIPPINE ISLANDS
28	5 56 8.63	51.39 N	178.32 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS

OCT HYPOCENTER SUMMARY

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OCT 1970	ORIGIN TIME (GMT)	LAT	LONG	DEPTH* (KM)	MB	MS	GEOGRAPHIC REGION
28	6 28 10.39	52.25 N	178.53 E	125.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
28	21 32 9.83	51.79 N	178.81 E	93.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
29	0 57 42.80	54.17 N	164.63 W	27.0 T	5.3		UNIMAK ISLAND REGION
29	1 54 34.69	51.47 N	179.31 E	58.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
29	3 20 15.36	51.29 N	179.36 E	48.1 F			RAT ISLANDS, ALEUTIAN ISLANDS
29	5 4 17.39	51.37 N	178.74 E	36.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
29	16 10 29.31	51.23 N	178.76 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
29	17 22 41.60	51.72 N	179.61 W	100.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
29	19 45 11.15	52.00 N	179.47 W	131.5 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
29	21 59 36.46	52.14 N	179.38 E	179.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
30	5 24 46.16	50.85 N	178.24 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	6 25 55.57	50.85 N	178.26 E	75.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	11 53 31.46	51.52 N	179.49 E	14.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
30	14 56 51.63	51.59 N	179.37 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
30	15 32 52.92	51.94 N	179.50 E	169.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
30	19 6 28.11	52.09 N	179.14 E	192.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
30	21 1 16.90	51.51 N	178.24 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
31	5 7 6.01	51.38 N	178.58 E	54.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
31	6 27 55.26	50.97 N	179.44 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
31	16 8 41.70	51.21 N	179.38 W	39.0 T	5.0		DELAROF ISLANDS, ALEUTIAN ISLANDS
31	17 53 9.30	4.93 S	145.47 E	42.0 T	6.0	7.0	NEAR NORTH COAST OF NEW GUINEA
31	21 37 55.95	51.30 N	179.56 W	66.2 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
31	22 51 5.24	51.00 N	178.36 E	0.0 D			RAT ISLANDS, ALEUTIAN ISLANDS

* F = FREE DEPTH SOLUTION
D = FIXED DEPTH SOLUTION
T = TELESEISMIC SOLUTION

SEISMICITY MAPS

ALEUTIAN EARTHQUAKES WHICH WERE LOCATED DURING THE MONTH BY THE ALEUTIAN SEISMIC NETWORK AND BY THE WORLD NETWORK OF SEISMOLOGICAL STATIONS REPORTING TO THE NATIONAL OCEAN SURVEY (NOS) ARE PLOTTED ON SIX MAPS COVERING THE ALEUTIAN ISLANDS FROM THE NEAR ISLANDS TO UNIMAK ISLAND (170 DEGREES EAST LONGITUDE TO 160 DEGREES WEST LONGITUDE).

THE BASE MAPS ARE MODIFIED VERSIONS OF LARGE PLATES PUBLISHED BY THE NOS AS PART OF ESSA MONOGRAPH NO. 3 (BATHYMETRY OF THE ALEUTIAN ARC). THE TRANSVERSE MERCATOR PROJECTION, IN WHICH AREAL DISTORTION IS SMALL AND BEARINGS REMAIN TRUE, WAS EMPLOYED.

EPICENTERS WERE PLOTTED AUTOMATICALLY BY A FLAT-BED INCREMENTAL PLOTTER TO PRODUCE PLATES WHICH WERE USED TO OVERPRINT THE BASE MAPS. REGISTRATION MARKS ALONG THE MARGINS OF THE MAPS ALLOW AN ESTIMATION OF THE PRECISION OF PRINTING REGISTRATION.

EACH PLOTTED SYMBOL, CENTERED UPON THE EPICENTRAL COORDINATES, REPRESENTS ONE EARTHQUAKE. THE TYPE OF SYMBOL DENOTES THE DEPTH-OF-FOCUS CLASS OF THE SEISMIC EVENT. THE BODY-WAVE MAGNITUDE (MB) IS INDICATED BY THE SYMBOL SIZE, WHICH VARIES CONTINUOUSLY ACCORDING TO THE RELATIONSHIP

$$\text{SYMBOL SIZE (INCHES)} = .07 + (\text{MB} - 2.5) \times .10$$

EVENTS WHOSE MAGNITUDES ARE UNDETERMINED OR LESS THAN 2.5 ARE PLOTTED AS .07 INCH SYMBOLS. A LEGEND BLOCK DEPICTING THE FIVE DEPTH-OF-FOCUS CLASSES AND A RANGE OF MAGNITUDES IS PROVIDED ON THE ATTU PLATE.

DEPTH OF FOCUS (km)

	0-50	50-100	100-150	150-200	200-250
$m_B = 3.0$	*	□	×	◇	+
$m_B = 4.0$	✱	▣	✕	◊	+
$m_B = 5.0$	✱	▣	✕	◊	+
$m_B = 6.0$	✱	▣	✕	◊	+
$m_B = 7.0$	✱	▣	✕	◊	+