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6/27/72

ALEUTIAN SEISMIC PROGRAM
SEISMOLOGICAL BULLETIN
NOVEMBER 1971

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BY JH Kahn / amh
DATE 6/27/72

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
ENVIRONMENTAL RESEARCH LABORATORIES
ROCKVILLE, MARYLAND 20852

JUNE 1972

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 INVESTIGATIONS GROUP, 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
 $MB = -0.76 + \log_{10}(AMP/PER) + 0.91 * \log_{10}(SLANT \text{ DISTANCE})$
 FOR EVENTS OF EPICENTER DISTANCE LESS THAN
 200 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)
ACA	AMCHITKA CENTRAL A	08/05/71-	51 28 51.4 N	179 07 09.6 E	42
ACB	AMCHITKA CENTRAL B	08/05/71-	51 27 45.4 N	179 05 27.3 E	47
ACC	AMCHITKA CENTRAL C	08/05/71-	51 29 03.4 N	179 02 35.2 E	26
ACD	AMCHITKA CENTRAL D	08/05/71-	51 25 41.4 N	179 08 11.8 E	37
ACE	AMCHITKA CENTRAL E	08/05/71-	51 24 01.8 N	179 10 21.9 E	9
ACF	AMCHITKA CENTRAL F	08/05/71-	51 31 32.7 N	178 59 38.9 E	62
ADK	ADAK OBSERVATORY		51 53 01.4 N	176 41 04.3 W	116
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	22/11/70-10/05/71	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
NIK	NIKOLSKI	20/05/71-	52 58 27.5 N	168 51 10.8 W	207
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
SMY	SHEMYA	17/11/70-	52 43 51.0 N	174 06 11.0 E	58
SSI	SEMISOPHOCHNOI 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

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
01	3 41	31.54	51.58 N 179.82 E	DEPTH = 75.5 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
01	ASD	IP C	03 41 43.6	48.9	.1	3.68	39	238	-.2	
01	SSI	IP D	03 41 43.7	28.8	.1	3.45	39	335	-.0	
01	ASB	IP	03 41 44.2	42.4	.1	3.64	47	239	-.1	
		IS	03 41 53.6						.0	
01	ASC	IP	03 41 44.5				47	255	.2	
01	AND	IP	03 41 45.3				60	269	-.1	
01	AMA	IP	03 41 47.3	13.0	.1	3.21	81	113	.0	
01	ANA	IP	03 41 47.5				81	274	.2	
01	RAT	IP	03 41 49.8				106	284	-.2	
.....										
01	AMA	IP C	04 15 22.8	28.1	.1	3.15				
		ES	04 15 27.2							
01	ASD	EP	04 15 37.8	2.7	.1	2.62				
		ES	04 15 53.3							
01	ASB	EP	04 15 39.0	4.7	.1	2.89				
01	ASC	EP	04 15 39.9							
01	ADK	EP	06 21 39.7							
		ES	06 21 48.5							
01	ADK	EP	07 27 37.7							
		ES	07 27 51.4							
01	ADK	EP	08 43 3.1							
		ES	08 43 13.7							
01	SSI	EP	08 47 32.0							
01	ASD	IP C	08 47 35.7	3.1	.1	2.36				
01	ASC	EP	08 47 36.6							
01	ASB	EP	08 47 36.9	1.7	.1	2.15				
		ES	08 47 44.6							
01	ADK	EP	10 27 3.2							
		ES	10 27 12.5							
.....										
01	13 17	37.18	50.75 N 175.69 E	DEPTH = 50.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
01	RAT	IP D	13 18 8.1	23.0	.1		218	57	-.3	
01	ANA	IP	13 18 9.7				229	64	-.1	
01	AND	IP	13 18 11.4				245	67	-.3	
01	ASC	EP	13 18 12.9				256	71	-.1	
01	ASB	IP	13 18 13.0	14.6	.1		258	73	-.3	
		IS	13 18 39.7						-.0	
01	ASD	IP D	13 18 13.9	8.5	.2		265	73	-.3	
01	SSI	IP	13 18 19.6	48.8	.1		300	63	1.2	
01	AMA	EP	13 18 27.4	4.7	.2		369	79	.4	
.....										
01	13 32	10.15	51.75 N 178.98 W	DEPTH = 98.5 KM			FREE DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
01	SSI	IP D	13 32 29.5	7.1	.1	3.04	100	280	.0	
01	ASD	EP	13 32 31.7	1.7	.1	2.46	123	252	-.1	
01	ASB	EP	13 32 32.5				130	251	-.0	
01	ASC	EP	13 32 33.0				132	257	.2	
01	AND	EP	13 32 33.9				144	263	-.2	
		ES	13 32 51.5						.0	
01	ANA	EP	13 32 36.2				163	266	.0	
.....										
01	RAT	EP	14 37 9.1							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS	
01	ANA	EP	14 37 11.5								
01	AND	EP	14 37 13.0								
01	ASB	EP	14 37 14.5								
		ES	14 37 46.0								
01	ASD	EP	14 37 15.6							SMALL AMP.	
01	SSI	EP	14 37 20.4	4.4	.1						
<hr/>											
01	14 39 55.50	51.42 N 177.69 E DEPTH = 50.0 KM									FIXED DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS								
01	RAT	IP D	14 40 7.0	15.6	.1	3.16	61	46	- .5		
01	ANA	IP	14 40 8.5				71	71	- .2		
01	AND	IP C	14 40 10.6				89	79	- .2		
01	ASC	EP	14 40 12.5				102	87	.1		
01	ASB	EP	14 40 12.6	2.8	.1	2.58	108	93	- .6		
		ES	14 40 25.7						- .3		
01	ASD	EP	14 40 14.5	2.1	.1	2.47	115	91	.6		
01	SSI	IP C	14 40 18.4	17.6	.1	3.46	141	67	1.2		
<hr/>											
01	17 33 50.53	52.47 N 178.83 E DEPTH = 125.0 KM									FIXED DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS								
01	RAT	EP	17 34 10.8	2.2	.1	2.56	82	205	.1		
01	ASC	EP	17 34 12.9				114	168	- .5		
01	ASD	EP	17 34 14.6				125	163	.3	SMALL AMP.	
		ES	17 34 31.7						.0		
01	ASB	EP	17 34 14.6				126	167	.1		
<hr/>											
01	21 17 37.53	50.86 N 178.03 E DEPTH = 11.4 KM									FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS								
01	ANA	IP C	21 17 53.6				96	27	.2		
01	AND	IP C	21 17 54.0				102	39	- .2		
01	ASB	IP C	21 17 54.4	136.3	.2	3.90	102	56	.2		
		IS	21 18 6.4						- .0		
01	ASC	IP	21 17 54.7				104	49	.1		
01	RAT	IP C	21 17 54.9	79.5	.1	3.99	107	11	- .1		
01	ASD	IP C	21 17 55.2				109	57	- .2		
01	SSI	IP C	21 18 2.6	210.2	.3	4.09	158	43	- .2		
01	AMA	EP	21 18 9.9	9.0	.1		206	76	.0		
01	ADK	EP	21 18 31.1				385	71	- .9		
		ES	21 19 10.9						- .8		
<hr/>											
01	AMA	IP D	21 39 59.2	21.6	.1						
01	SSI	EP	21 40 13.4	4.4	.1						
01	ASD	EP	21 40 14.7	2.5	.1	2.69					
01	ASB	EP	21 40 15.2	4.5	.1	2.95					
		ES	21 40 35.1								
01	ASC	EP	21 40 16.7								
<hr/>											
01	23 48 26.88	51.03 N 178.73 E DEPTH = 23.4 KM									FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS								
01	ASB	EP	23 48 36.3	3.0	.1	2.31	52	44	.1		
01	ASD	EP	23 48 37.1	2.8	.1	2.33	59	46	- .2		
		ES	23 48 44.8						- .0		
01	ASC	EP	23 48 37.2				57	32	.2		
01	AND	EP	23 48 37.6				62	15	- .1		
01	ANA	EP	23 48 38.4				67	356	- .0		
01	SSI	EP	23 48 45.4				113	32	.0		

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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02	0 53	4.79	50.99 N 178.15 E	DEPTH = 65.9 KM						FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
02	ANA	IP	00 53 19.7				79	27	.0	
02	AND	IP	00 53 20.2				84	41	-.1	
02	ASB	IP D	00 53 20.5	25.3	.1	3.49	87	61	-.0	
		IS	00 53 32.0						-.0	
02	ASC	IP	00 53 20.8				88	53	.1	
02	ASD	IP D	00 53 21.3	9.1	.1	3.07	94	62	-.1	

02	3 57	44.13	51.17 N 178.68 E	DEPTH = 31.9 KM						FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
02	ACE	IPGD	03 57 52.7				43	53	-.1	
02	ASB	IPGC	03 57 52.9	125.2	.1	3.92	45	61	-.2	
		ES	03 57 59.5						-.1	
02	ACD	IPGD	03 57 52.9				43	47	.1	
02	ACB	IPG	03 57 53.0				44	41	.1	
02	ACC	IPG	03 57 53.0				43	36	.2	
02	ACF	IPGC	03 57 53.3				46	29	.2	
02	ASC	IPGC	03 57 53.4				47	46	.1	
02	AND	IPGD	03 57 53.4				48	23	-.0	
02	ACA	IPG	03 57 53.4				46	41	.2	
02	ASD	IPGC	03 57 53.7	27.7	.1	3.31	52	61	-.3	
02	ANA	IPGD	03 57 54.0				51	359	.1	
02	RAT	IP D	03 57 56.8	55.6	.1	3.72	74	341	-.3	
02	SSI	IP D	03 58 1.3	103.7	.1	4.10	102	38	.1	
		ES	03 58 13.4						-.2	
02	AMA	EP	03 58 8.4	7.6	.1	3.12	155	84	.0	QP QTAMP

02	ASB	IP	06 27 33.4	4.8	.1	2.75				
		IS	06 27 44.7							
02	AMA	EP	06 27 34.0	9.5	.1					
02	ADK	EP	08 15 59.5							
		ES	08 16 8.3							

02	8 34	47.00	2.94 S 139.39 E	DEPTH = 57.0 KM		MB = 5.1				TELESEISMIC SOLUTION
			NEAR N. COAST OF WEST NEW GUINEA							
02	ADK	EP	08 45 29.8	8.0	.6		7345	28		
02	ADK	EP D	09 10 46.1							
		ES	09 10 53.8							

02	13 43	8.73	51.25 N 179.75 W	DEPTH = 49.1 KM						FREE DEPTH SOLUTION
			DELAROF ISLANDS, ALEUTIAN ISLANDS							
02	AMA	E(P)	13 43 19.3	47.6	.1	3.58	45	84	.3	VQP
		ES	13 43 26.0						-.4	
02	ASD	IP	13 43 21.1	28.4	.1	3.43	65	285	-.1	
02	ASB	EP	13 43 22.0	20.3	.1	3.31	71	281	.1	QS
		ES	13 43 31.5						.1	
02	ASC	EP	13 43 23.2				79	288	.3	
02	SSI	IP	13 43 23.5	70.9	.1	3.90	85	328	-.1	
		ES	13 43 34.6						.2	
02	AND	E(P)	13 43 24.5				97	292	-.5	QP
02	ANA	EP	13 43 27.3				118	292	-.3	QP
02	RAT	E(P)	13 43 31.3	129.7	.2	4.04	146	295	.2	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
02	14 36	28.26	51.37 N 178.76 E	DEPTH = 40.6 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
02	AND	EPG	14 36 35.8				25	32	-.1	
02	ACF	EPG	14 36 35.9				24	43	.1	
02	ACB	EPG	14 36 36.0				25	66	.1	
02	ANA	EPG	14 36 36.2				29	347	-.1	
02	ACA	EPG	14 36 36.2				28	64	.1	
02	ACE	EPG	14 36 36.3				29	83	.1	
02	ASC	EPG	14 36 36.4				30	70	.1	
02	ASB	EPG	14 36 36.7	9.2	.1	2.77	34	92	-.0	
		ES	14 36 42.8						-.1	
02	ASD	EPG	14 36 37.3	23.1	.1	3.20	41	87	-.1	
.....										
02	ADK	EP	15 37 14.9							
		ES	15 37 58.6							
.....										
02	15 37	4.85	51.25 N 177.79 E	DEPTH = 0.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
02	RAT	I(P)	15 37 17.7	66.6	.1	3.75	71	31	-.1	
02	AND	E(P)	15 37 21.0				88	66	.5	
02	ASB	EP	15 37 22.9	20.3	.1	3.37	102	83	.2	
		ES	15 37 36.3						.6	
02	ASD	EP	15 37 23.2	14.1	.1	3.24	109	81	-.6	
		ES	15 37 36.9						-.6	
.....										
02	19 49	29.76	51.68 N 179.79 E	DEPTH = 107.1 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
02	ASD	IP	19 49 45.7	16.2	.1	3.33	45	224	-.0	
		ES	19 49 57.4						-.0	
02	ASB	IP C	19 49 46.1	20.7	.1	3.44	52	227	-.0	
		ES	19 49 58.1						.0	
02	ASC	EP	19 49 46.2				50	241	.2	
02	AND	EP	19 49 46.5				59	258	-.1	
02	ANA	EP	19 49 48.0				78	266	.0	
.....										
02	ADK	EP	20 08 9.6							
		ES	20 08 31.2							
02	ADK	EP	23 58 6.4							
		ES	23 59 4.9							
.....										
03	3 23	41.63	51.42 N 179.18 E	DEPTH = 45.3 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
03	ASD	EPG	03 23 48.9	4.9	.1	2.45	11	106	-.1	
03	ASB	EPG	03 23 48.9	10.2	.1	2.76	8	145	.0	
		IS	03 23 54.1						-.0	
03	ASC	EPG	03 23 49.0				5	345	.2	
03	AND	EPG	03 23 49.5				23	315	-.1	
.....										
03	AMA	IPG	05 45 39.8	13.0	.1	2.76				
		ES	05 45 43.7							
03	ASD	EP	05 45 45.8	2.7	.1	2.44				
03	ASB	EP	05 45 46.7	3.3	.1	2.56				QP
		IS	05 45 57.1							
03	ASC	IP	05 45 48.1							
		ES	05 45 59.3							
03	AND	EP	05 45 50.2							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
03	6	3	55.77	51.62 N	178.65 E	DEPTH = 70.6 KM				FREE DEPTH SOLUTION
				RAT ISLANDS, ALEUTIAN ISLANDS						
03	ANA	E(P)	06 04 6.0				1	42	-.0	
03	AND	IP C	06 04 6.6				22	107	.1	
		ES	06 04 14.3						-.0	
03	RAT	EP	06 04 6.8	6.6	.1	2.77	30	312	-.1	
		ES	06 04 14.9						-.1	
03	ACC	EP	06 04 7.0				31	119	.0	
03	ACF	EP	06 04 7.0				26	113	.3	
03	ACB	EP	06 04 7.2				35	120	.0	
03	ACA	EP	06 04 7.3				36	115	.1	
03	ACD	EP	06 04 7.5				40	122	-.0	
03	ASC	IP	06 04 7.6				40	116	.1	
03	ACE	EP	06 04 7.7				44	124	-.1	
03	ASB	EP	06 04 8.0	2.9	.1	2.46	50	125	-.3	QP
03	ASD	IP	06 04 8.5	5.3	.1	2.74	54	118	-.1	
03	SSI	EP	06 04 10.3	4.6	.1	2.72	71	64	.1	
		ES	06 04 20.6						-.2	
.....										
03	10	28	11.13	51.59 N	179.58 W	DEPTH = 179.0 KM				FREE DEPTH SOLUTION
				DELAROF ISLANDS, ALEUTIAN ISLANDS						
03	AMA	EP	10 28 35.6	9.8	.1	3.29	47	136	.0	
		ES	10 28 53.4						-.0	
03	ASD	EP	10 28 36.6	3.1	.1	2.81	78	254	-.3	QP
03	ASC	EP	10 28 37.4				88	261	-.0	QP
03	ASB	EP	10 28 37.5	3.7	.1	2.90	85	253	.2	QP
		ES	10 28 56.4						.0	
03	ANA	EP	10 28 39.7				122	273	.1	QP
.....										
03	10	51	28.96	51.10 N	179.93 W	DEPTH = 33.8 KM				FREE DEPTH SOLUTION
				DELAROF ISLANDS, ALEUTIAN ISLANDS						
03	ASD	IPGD	10 51 40.1	21.3	.1	3.24	60	303	.0	
03	AMA	IPG	10 51 40.3	20.9	.1	3.24	61	69	.1	
		ES	10 51 48.0						-.4	
03	ASB	IPG	10 51 40.7	7.6	.1	2.81	64	298	.1	
		ES	10 51 48.6						-.5	
03	ACE	IPG	10 51 41.5				71	299	-.1	
03	ACD	EPG	10 51 42.2				75	300	.1	
03	ASC	IPG	10 51 42.3				75	303	.2	
03	ACA	EPG	10 51 42.8				79	303	.1	
03	ACB	EPG	10 51 42.8				79	301	.0	
03	ACF	IPG	10 51 44.1				89	303	-.0	
03	AND	EPG	10 51 44.6				93	304	-.2	
03	SSI	IP D	10 51 45.2	34.6	.1	3.60	95	340	.2	
03	RAT	EP	10 51 51.5				144	304	-.2	
.....										
03	15	44	58.60	52.02 N	177.31 W	DEPTH = 97.0 KM MB = 4.4				TELESEISMIC SOLUTION
				ANDREANOF ISLANDS, ALEUTIANS ISLANDS						
03	ADK	IP	15 45 13.5				45	110	.0	FELT. I. 4.6 ML
		ES	15 45 24.2						-.2	
03	AMA	IP D	15 45 22.6				149	237	-.3	WHITE OUT
03	SSI	EP C	15 45 31.0				213	267	.7	TAMP UNREADABLE
		E(S)	15 45 54.6						1.2	
03	ASD	EP	15 45 33.6	39.6	.1		242	254	-.0	
03	ASB	IP	15 45 34.6	259.5	.2		249	254	.1	
		I(S)	15 46 .9						.2	
03	ASC	IP	15 45 35.2				251	257	.5	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
. 03	AND	EP	15 45 36.5				263	260	.4	
. 03	ANA	IP	15 45 38.9				281	263	.6	
. 03	RAT	EP	15 45 41.6	32.8	.1		301	267	.9	
.....										
. 03	19 28 13.15	50.91 N 177.30 E	DEPTH = 0.0 KM							FIXED DEPTH SOLUTION
		RAT ISLANDS, ALEUTIAN ISLANDS								
. 03	AND	EP	19 28 36.2				137	57	-.1	QP
		ES	19 28 53.1						.0	
. 03	ASC	EP	19 28 37.6				144	64	.2	QP
. 03	ASD	EP	19 28 38.6	1.7	.1	2.45	153	69	-.1	QP
.....										
. 03	21 28 9.11	51.35 N 178.68 E	DEPTH = 37.3 KM							FREE DEPTH SOLUTION
		RAT ISLANDS, ALEUTIAN ISLANDS								
. 03	AND	IPG	21 28 16.7				31	39	-.2	
. 03	ACF	IPG	21 28 16.9				30	48	.1	
		ES	21 28 22.6						.2	
. 03	ANA	IPG	21 28 17.1				31	358	.2	
. 03	ACE	IPG	21 28 17.1				35	80	-.2	
. 03	ACA	EPG	21 28 17.2				34	64	-.0	
. 03	ASC	EPG	21 28 17.5				36	69	.0	
. 03	ASB	EPG	21 28 18.2	2.3	.1	2.18	40	88	.3	
		ES	21 28 23.8						-.4	
. 03	ASD	EPG	21 28 18.7	2.2	.1	2.20	46	84	.0	
. 03	RAT	I(P)	21 28 19.7	7.9	.1	2.80	56	335	-.2	
.....										
. 03	23 16 35.90	51.37 N 177.21 W	DEPTH = 33.0 KM MB = 3.9							TELESEISMIC SOLUTION
		ANDREANOF ISLANDS, ALEUTIANS ISLANDS								
. 03	ADK	IP D	23 16 47.7				67	32	-.3	
		ES	23 17 .3						3.6	
. 03	AMA	IP	23 16 56.7	90.7	.3	3.66	132	267	-.6	
		ES	23 17 15.3						2.4	
. 03	ASD	EP	23 17 9.6	14.6	.2		240	272	-.9	
. 03	SSI	EP	23 17 10.0				229	286	.8	
. 03	ASB	EP	23 17 10.6	20.9	.2		246	271	-.7	QS
		E(S)	23 17 40.5						3.3	
. 03	ASC	EP	23 17 11.7				252	274	-.3	
. 03	AND	EP	23 17 14.0				267	276	.1	
.....										
. 04	2 2 27.64	52.08 N 178.51 E	DEPTH = 160.7 KM							FREE DEPTH SOLUTION
		RAT ISLANDS, ALEUTIAN ISLANDS								
. 04	ANA	IP	02 02 50.1				52	168	.0	
. 04	AND	IP	02 02 50.6				65	152	-.1	
. 04	SSI	IP	02 02 51.3	11.2	.1	3.34	77	105	-.0	
. 04	ASC	IP	02 02 51.8				82	146	.2	
. 04	ASB	EP	02 02 52.3	10.8	.1	3.34	95	147	-.1	
		ES	02 03 10.5						.0	
. 04	ASD	IP C	02 02 52.5	32.5	.1	3.82	96	143	.0	
.....										
. 04	RAT	IP	03 26 7.3	8.7	.1					
. 04	ASD	IP	03 26 10.9	4.1	.1	2.83				
		ES	03 26 27.4							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
04	5	0	37.96	51.18 N	179.36 E	DEPTH = 42.0 KM	FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
04	ASB	IP C	05 00 45.5				22	338	-.0	
		IS	05 00 50.8						-.3	
04	ASD	IP C	05 00 45.6	57.0	.1	3.53	24	356	-.1	
04	ACE	IP	05 00 46.0				28	332	-.0	
04	ACD	IP	05 00 46.5				32	331	.1	
04	ASC	IP C	05 00 46.8				35	337	.1	
04	ACB	EP	05 00 46.9				37	329	.0	
04	ACA	IP	05 00 47.0				38	333	.0	
04	AND	IP	05 00 48.4				51	326	-.1	
04	ACF	IP	05 00 48.4				46	327	.4	
04	ANA	IP	05 00 50.8				70	316	-.0	
04	SSI	IP	05 00 52.2	24.4	.1	3.41	81	11	-.0	
04	RAT	IP	05 00 54.4	52.2	.1	3.81	100	314	-.1	
.....										
04	SSI	EP	07 45 44.2							
04	AMA	EP	07 45 47.8	13.5	.1					
04	ASD	IP	07 45 56.5	10.1	.1	3.22				
04	ASB	EP	07 45 57.3	13.3	.1	3.36				
		ES	07 46 14.3							
04	ASC	EP	07 45 58.9							
04	AND	EP	07 45 59.4							
04	ADK	IP D	13 41 43.0							
		ES	13 41 51.5							
.....										
04	17	53	18.45	51.72 N	179.84 E	DEPTH = 20.4 KM	FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
04	SSI	IP D	17 53 23.9				25	317	-.0	
04	ASD	IP C	17 53 27.6	36.5	.1	3.38	51	223	.1	
04	ASB	IP D	17 53 27.6	34.2	.1	3.40	58	226	-.9	
		IS	17 53 36.2						.4	
04	ASC	IP	17 53 28.4				55	238	.3	
04	AND	IP	17 53 29.5				64	254	.1	
04	AMA	IP	17 53 33.1				88	123	.1	
04	RAT	IP	17 53 35.6				104	275	.1	
.....										
04	18	8	31.84	51.70 N	178.57 E	DEPTH = 52.8 KM	FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
04	ANA	IP	18 08 40.0				10	144	-.0	
04	AND	IP	18 08 41.2				30	120	.1	
04	ASC	EP	18 08 42.7				49	123	-.0	
04	ASB	EP	18 08 44.0				60	129	.1	
		ES	18 08 52.7						-.0	
04	ASD	EP	18 08 44.2	3.6	.1	2.54	63	123	-.1	
.....										
04	ADK	EP	23 26 33.5							
		ES	23 27 31.2							
05	SSI	IP	01 28 12.6	172.9	.1					
05	ASD	IP	01 28 15.8	2.7	.1	2.32				
		ES	01 28 23.1							
05	ASD	EP	03 46 27.2	4.6	.1					NO S
05	ASC	EP	03 46 27.5							
05	AND	EP	03 46 27.7							
05	ASB	EP	03 46 27.8	5.4	.1					
05	ADK	EP	04 48 34.8							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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ES 04 48 45.0

05	8 14 18.15		51.01 N 179.36 W	DEPTH = 24.1 KM		FREE DEPTH SOLUTION				
DELAROF ISLANDS, ALEUTIAN ISLANDS										
05	AMA	IP D	08 14 25.3	107.9	.2	3.46	36	29	.0	
05	ASD	IP	08 14 34.4	17.1	.1	3.31	101	296	-.3	
05	ASB	EP	08 14 35.6	7.3	.1	2.95	105	293	.2	
05	ASC	EP	08 14 36.8				115	297	-.1	
05	SSI	IP	08 14 38.1	21.0	.1	3.47	123	324	-.0	
05	AND	EP	08 14 39.9				133	298	.3	
		ES	08 14 58.4						3.1	
05	RAT	IP	08 14 46.6	8.5	.1	3.23	183	300	-.0	

05	ADK	EP	10 21 8.3							
		ES	10 21 23.4							

05	10 30 48.73		51.95 N 178.80 E	DEPTH = 100.0 KM		FIXED DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
05	ANA	IP C	10 31 3.5				37	195	-.0	
05	RAT	IP	10 31 3.5				36	243	.0	
05	AND	IP C	10 31 3.9				44	166	.0	
05	SSI	IP	10 31 4.5	4.9	.1	2.80	55	96	-.0	
05	ASB	EP	10 31 5.7	3.7	.1	2.71	72	154	-.1	
05	ASD	IP	10 31 5.9	7.4	.1	3.01	72	149	.1	

05	11 10 44.00		51.38 N 179.43 W	DEPTH = 29.4 KM		FREE DEPTH SOLUTION				
DELAROF ISLANDS, ALEUTIAN ISLANDS										
05	AMA	IP C	11 10 50.2	60.5	.1	3.46	24	114	-.0	
05	ASD	IP	11 10 58.4	39.3	.1	3.61	86	272	-.1	
05	SSI	IP	11 10 59.1				89	311	.1	
05	ASB	IP	11 10 59.6	45.6	.1	3.71	92	270	.1	
		ES	11 11 10.8						.0	
05	ASC	IP	11 11 .6				98	276	.2	
05	AND	IP	11 11 2.5				114	281	-.3	
05	ANA	IP	11 11 5.8				135	283	-.1	
05	RAT	EP	11 11 9.4				162	288	.0	

05	AMA	IP	17 20 39.9	73.5	.1					
05	ASD	IP	17 20 53.5	3.1	.1	2.63				
05	ASC	EP	17 20 54.6							
05	SSI	EP	17 20 54.6	7.6	.1					
05	ASB	EP	17 20 54.7	3.2	.1	2.67				
		ES	17 21 9.0							

05	18 4 39.55		51.48 N 178.88 E	DEPTH = 48.0 KM		FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
05	AND	EP	18 04 47.2				11	27	.0	
05	ASB	IP	18 04 48.2	2.2	.1	2.17	28	117	.0	
		ES	18 04 54.5						.0	
05	ASD	EP	18 04 48.6	1.8	.1	2.10	33	106	.0	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
05	22 38 45.23		51.54 N 178.15 E	DEPTH = 62.2 KM						FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
05	ANA	IP	22 38 55.8				36	75	-.1	
05	AND	IP	22 38 57.6				55	87	.1	
05	ASC	IP	22 38 59.2				71	97	.2	
05	ASB	IP	22 38 59.7	11.2	.1	3.11	79	104	-.2	
		IS	22 39 10.5						-.0	
05	ASD	IP	22 39 .5	10.8	.1	3.11	84	101	.0	
05	SSI	IP	22 39 3.0	22.2	.1	3.49	106	68	-.0	
.....										
07	5 0 26.31		51.79 N 178.07 E	DEPTH = 78.3 KM						FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
07	ANA	IP C	05 00 39.0				45	114	-.2	EARTHQUAKE
		IS	05 00 48.8						.3	
07	AND	IP C	05 00 40.8				66	112	-.1	
		IS	05 00 51.4						-.1	
07	ASC	IP	05 00 42.7				84	115	.1	
07	ASB	IP	05 00 43.7	12.0	.1	3.22	94	120	.1	
		ES	05 00 56.1						-.2	
07	ASD	I(P)	05 00 44.1	5.5	.1	2.89	98	116	.0	
.....										
07	5 25 46.40		51.32 N 179.41 W	DEPTH = 50.0 KM						FIXED DEPTH SOLUTION
			DELAROF ISLANDS, ALEUTIAN ISLANDS							
07	ASD	IP	05 26 1.4	3.9	.1	2.66	87	275	-.1	EARTHQUAKE
07	ASB	I(P)	05 26 2.3	8.5	.1	3.01	94	273	-.0	
		ES	05 26 13.9						-.0	
07	ASC	I(P)	05 26 3.4				100	279	.3	
07	AND	EP	05 26 5.0				117	284	-.1	
.....										
07	10 1 43.81		51.24 N 178.50 W	DEPTH = 50.0 KM						FIXED DEPTH SOLUTION
			DELAROF ISLANDS, ALEUTIAN ISLANDS							
07	ANA	IP C	10 01 52.4				43	277	-1.5	EARTHQUAKE
		IS	10 01 58.5						-2.8	
07	ADK	EP	10 02 5.7				144	60	-.2	
		ES	10 02 21.9						-.1	
07	SSI	EP D	10 02 6.8	84.2	.1	4.17	151	299	.1	AMCHITKA
07	RAT	E(P)	10 02 16.9				228	287	.6	OBSCURED
.....										
07	10 59 34.32		51.62 N 178.97 W	DEPTH = 50.0 KM						FIXED DEPTH SOLUTION
			DELAROF ISLANDS, ALEUTIAN ISLANDS							
07	ASD	IP C	10 59 53.2	9.8	.1	3.15	119	259	-.1	EARTHQUAKE
07	ASB	IP C	10 59 54.2	10.9	.1	3.22	127	258	-.0	
		ES	11 00 2.1						-.1	
07	ASC	IP C	10 59 54.6				130	263	-.1	
07	AND	IP	10 59 56.2				143	268	-.1	
07	ANA	I(P)	10 59 58.8				163	271	.0	
.....										
07	ADK	IP	11 06 51.5							
		ES	11 07 7.8							
07	ASD	EP	11 06 51.9	48.6	.2	3.60				EARTHQUAKE
07	ASB	EP	11 06 53.1	68.7	.2	3.77				
		ES	11 07 10.2							
07	ASC	EP	11 06 54.4							
07	AND	EP	11 06 56.2							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
07	ANA	EP	11 07 0.0							
07	ASD	EP	12 26 38.8	4.1	.1					EARTHQUAKE
07	ASC	EP	12 26 39.0							
07	ASB	EP	12 26 39.2	6.8	.1					
07	ADK	IP	13 00 9.5							
		ES	13 00 28.6							
07	ASD	I(P)	13 00 41.3	40.5	.2					REGIONAL
07	ASB	I(P)	13 00 41.8	64.1	.2					EARTHQUAKE
		I(S)	13 01 9.9							
07	ASC	IP	13 00 43.4							
07	AND	I(P)	13 00 45.0							
07	ANA	IP	13 00 48.6							

.....
 . 07 13 26 49.06 51.44 N 179.32 W DEPTH = 50.0 KM FIXED DEPTH SOLUTION
 . DELAROF ISLANDS, ALEUTIAN ISLANDS

.....
 . 07 ASD IP 13 27 4.9 3.2 .1 2.59 93 267 -.0 REGIONAL
 . 07 ASB I(P) 13 27 5.7 3.3 .1 2.62 100 266 -.0 EARTHQUAKE
 . E(S) 13 27 17.9 .0
 . 07 ASC I(P) 13 27 6.5 105 272 .1
 . 07 AND E(P) 13 27 8.2 121 277 -.1

07 ADK EP 13 41 48.2
 ES 13 41 55.8

.....
 . 07 18 18 28.71 51.18 N 178.51 E DEPTH = 24.9 KM FREE DEPTH SOLUTION
 . RAT ISLANDS, ALEUTIAN ISLANDS

.....
 . 07 ANA IP 18 18 38.0 51 12 -.0
 . 07 AND IP D 18 18 38.2 53 36 -.1
 . 07 ASB IP 18 18 38.6 16.8 .1 3.09 55 68 -.0
 . IS 18 18 45.8 -.0
 . 07 ASC IP 18 18 38.8 56 55 .1
 . 07 ASD IP 18 18 39.6 8.3 .2 2.52 63 67 -.1 EARTHQUAKE

.....
 . 07 19 10 39.46 51.17 N 178.51 E DEPTH = 25.4 KM FREE DEPTH SOLUTION
 . RAT ISLANDS, ALEUTIAN ISLANDS

.....
 . 07 ANA I(P) 19 10 49.0 52 11 .0
 . 07 AND IP 19 10 49.1 54 35 -.1
 . 07 ASB IP 19 10 49.4 8.1 .1 2.77 56 67 -.0
 . ES 19 10 56.7 .0
 . 07 ASC I(P) 19 10 49.6 56 54 .1
 . 07 ASD E(P) 19 10 50.5 .7 .1 1.75 63 66 .0 EARTHQUAKE

07 AND EPG 23 47 53.2
 ES 23 47 56.2
 07 ANA IPG 23 47 53.4

SM LOCAL

.....
 . 08 3 38 40.39 51.07 N 179.57 W DEPTH = 31.2 KM FREE DEPTH SOLUTION
 . DELAROF ISLANDS, ALEUTIAN ISLANDS

.....
 . 08 AMA IPGC 03 38 48.8 106.0 .1 3.82 40 53 .2 EARTHQUAKE
 . IS 03 38 54.4 -.3
 . 08 ASD IP C 03 38 54.8 17.8 .1 3.26 84 295 .1
 . 08 ASB EP 03 38 55.4 18.3 .1 3.30 88 292 .0
 . E(S) 03 39 6.7 .4
 . 08 ACE EP 03 38 56.2 95 293 -.1
 . 08 ASC E(P) 03 38 56.7 98 297 -.1 QP
 . 08 SSI IP D 03 38 58.7 108 328 .4 AMPL OBSCURED

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
		ES	03 39 11.1						-.3	
08	AND	EP	03 38 59.1				116 299		-.4	QP
08	ANA	E(P)	03 39 2.6				138 297		.0	QP
08	RAT	EP	03 39 6.1				167 300		-.1	AMPL OBSCURED
.....										
08	8 31 32.09		51.06 N 179.38 W	DEPTH = 29.4 KM			FREE DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
08	AMA	IP D	08 31 39.3				32 36		.1	
		E(S)	08 31 44.2						-.2	
08	ASD	IP	08 31 47.9				97 293		-.3	
08	SSI	IP D	08 31 51.4				118 323		.1	
08	AND	IP	08 31 53.4				129 297		.3	
08	ANA	IP	08 31 56.2				150 296		.2	
08	RAT	EP	08 31 59.3	107.4	.2	4.03	179 298		-.3	
08	ADK	EP	08 32 2.5				208 63		-.7	
		ES	08 32 25.0						-.8	
.....										
08	22 43 .60		5.77 N 126.51 E	DEPTH = 164.0 KM MB = 5.7			TELESEISMIC SOLUTION			
MINDANAO, PHILIPPINE ISLANDS										
08	ADK	E	22 53 27.1				7274 35			
.....										
08	23 14 35.68		51.55 N 178.54 E	DEPTH = 63.0 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
08	ANA	IP	23 14 45.2				12 45		.0	
08	AND	IP	23 14 45.9				29 87		-.0	
08	RAT	IP	23 14 46.0	59.6	.1	3.70	31 333		-.1	
08	ASC	IP	23 14 47.2				44 102		.2	
08	ASB	IP	23 14 47.7	103.1	.1	4.00	53 113		-.1	
08	ASD	IP	23 14 48.3				58 107		.0	
		IS	23 14 57.4						-.1	
08	SSI	IP C	23 14 50.7				82 62		-.0	
08	ADK	EP	23 15 21.5				331 82		.6	
		ES	23 15 55.6						1.6	
.....										
08	23 24 5.54		51.09 N 179.41 W	DEPTH = 50.0 KM			FIXED DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
08	ASD	EP	23 24 20.9	3.8	.1	2.66	93 291		-.5	
08	ASB	EP	23 24 22.2	9.4	.1	3.07	98 288		.2	
		ES	23 24 34.0						-.0	
08	ASC	EP	23 24 23.3				108 293		.2	
08	AND	EP	23 24 25.4				125 295		.1	
.....										
09	4 53 22.12		51.42 N 179.25 E	DEPTH = 38.5 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
09	ASD	IP	04 53 28.3	3.4	.1	2.21	7 120		-.1	
09	ASB	EP	04 53 28.3	4.3	.1	2.32	7 183		-.1	
09	ACE	IP	04 53 28.3				6 246		-.1	
09	ASC	IP	04 53 28.6				8 306		.2	
09	ACD	IP	04 53 28.6				8 274		.2	
09	ACA	IP	04 53 28.7				11 305		.1	
09	ACB	IP	04 53 28.7				12 291		.1	
09	AND	EP	04 53 29.4				26 307		-.2	
		IS	04 53 34.9						-.1	
.....										

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
09	12 19	2.93	51.25 N 179.58 E	DEPTH = 37.5 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
09	ASD	IP	12 19 9.9	15.0	.1	2.90	22	313	-.1	
09	ASB	IP	12 19 10.3	5.2	.1	2.46	26	298	.0	
		ES	12 19 15.6						-.0	
09	ACE	IP	12 19 10.8				33	300	-.1	
09	ACD	IP	12 19 11.4				36	303	.1	
09	ASC	EP	12 19 11.5				37	309	.1	
09	ACA	IP	12 19 11.9				41	309	.1	
09	ACB	IP	12 19 11.9				41	305	.0	
09	AND	EP	12 19 13.5				55	309	-.1	
.....										
09	ANA	IP D	12 57 3.5							
09	AND	IP D	12 57 4.2							
		ES	12 57 19.4							
09	ASC	EP	12 57 5.9							
09	ASD	EP	12 57 6.8	2.7	.1	2.66				
		ES	12 57 24.0							
09	ADK	EP	14 15 10.9							
		ES	14 15 25.3							
.....										
09	14 25	57.44	51.60 N 179.38 E	DEPTH = 84.0 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
09	ASD	EP	14 26 9.7	3.4	.1	2.53	23	186	-.1	
09	ASC	EP	14 26 9.8				21	225	.1	
09	ASB	EP	14 26 10.0	3.9	.1	2.60	28	199	.0	
		ES	14 26 19.1						-.0	
09	ANA	IP	14 26 11.2				50	274	-.0	
.....										
09	RAT	EP	14 33 44.6	8.2	.1					
09	ANA	E	14 33 48.3							
09	AND	EP	14 33 50.8							
		IS	14 34 7.5							
09	ASC	EP	14 33 53.4							
09	ASB	EP	14 33 54.4							
09	ASD	EP	14 33 55.0	1.0	.1	2.27				
		ES	14 34 14.0							
09	ADK	IP D	15 05 34.2							
		IS	15 05 51.1							
.....										
09	15 56	2.96	51.26 N 178.72 E	DEPTH = 40.0 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
09	AND	EP	15 56 11.6				38	25	-.2	
09	ASB	EP	15 56 11.8				38	72	-.0	
		ES	15 56 18.3						-.0	
09	ASC	EP	15 56 12.1				38	53	.3	
09	ANA	EP	15 56 12.2				41	354	.0	
09	ASD	EP	15 56 12.6	3.4	.1	2.39	46	71	-.1	
.....										
09	ADK	EP	16 44 50.5							
		ES	16 45 1.8							
09	AMA	IP C	17 14 57.4	64.8	.2					
09	ASD	IP	17 15 12.0	5.6	.1	2.99				
09	ASB	IP	17 15 12.9	7.3	.1	3.12				
		ES	17 15 30.8							
09	ASC	EP	17 15 13.9							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
09	ADK	EP	22 21 4.8							
		ES	22 21 11.7							
09	AND	IP D	22 42 2.1							
		IS	22 42 5.1							
09	ASB	IP	22 42 5.4	4.3	.1	2.40				
09	ASD	EP	22 42 6.1	4.1	.1	2.42				
		ES	22 42 11.9							
.....										
10	6 33	30.05	51.97 N 178.85 W	DEPTH = 128.0 KM			FREE DEPTH SOLUTION			
			DELAROF ISLANDS, ALEUTIAN ISLANDS							
10	AMA	IP	06 33 50.3	75.6	.2	3.80	78	194	.0	
10	SSI	IP	06 33 52.6	70.1	.2	3.81	108	266	-.0	
10	ASD	IP D	06 33 55.6	25.8	.1	3.72	141	244	-.0	
10	ASB	IP D	06 33 56.2	36.2	.1	3.88	148	244	-.1	
		ES	06 34 18.6						3.1	
10	ASC	IP	06 33 56.6				148	248	.2	
10	AND	EP	06 33 57.2				158	254	-.1	
10	ANA	EP	06 33 59.2				176	258	.0	
.....										
10	ADK	IP	08 18 8.6							
		ES	08 18 14.3							
10	ADK	EP	10 13 47.2							
		ES	10 14 11.2							
10	ADK	IP	10 25 37.0							
		ES	10 25 44.4							
.....										
10	10 22	42.40	5.28 S 152.64 E	DEPTH = 49.0 KM MB = 5.2 MS = 5.4			TELESEISMIC SOLUTION			
			NEW BRITAIN REGION							
10	ADK	EP	10 33 3.1				6969	21		
.....										
10	12 10	51.67	51.75 N 179.50 W	DEPTH = 8.6 KM			FREE DEPTH SOLUTION			
			DELAROF ISLANDS, ALEUTIAN ISLANDS							
10	AMA	IP D	12 11 2.0				58	152	-.0	
10	SSI	IP D	12 11 3.3				65	284	.3	
10	ASD	IP	12 11 6.9				90	244	.1	
10	ASB	IP	12 11 8.1	254.5	.1	4.46	97	244	.2	
		ES	12 11 19.8						-.0	
10	ASC	IP	12 11 8.2				98	251	.1	
10	AND	IP	12 11 9.5				109	259	-.2	
10	ANA	IP	12 11 12.3				128	264	-.3	
10	RAT	IP C	12 11 15.8				150	273	-.1	
10	ADK	IP	12 11 21.4				194	85	-1.2	
		ES	12 11 42.8						-2.4	
.....										
10	ADK	EP	17 35 9.7							
		ES	17 35 16.3							
11	ADK	EP	03 40 10.0							
		ES	03 40 18.8							
.....										
11	4 40	38.52	51.43 N 179.45 E	DEPTH = 75.0 KM			FIXED DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
11	ASD	IP	04 40 49.3				9	242	-.1	
11	ASB	IP	04 40 49.7				16	243	.1	
		IS	04 40 57.5						-.1	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
11	ASC	IP	04 40 49.7				20	281	-0.0	
11	ADK	EP	15 41 .2							
		ES	15 41 37.2							
11	AMA	IP C	17 45 42.7	56.2	.1					
11	ASD	EP	17 45 51.9	4.3	.1	2.76				
11	ASB	IP	17 45 52.9	5.4	.1	2.88				
		IS	17 46 6.6							
11	ASC	IP	17 45 53.8							
11	ANA	IP	17 45 55.3							
11	18 46 55.50	50.99 N 178.96 E DEPTH = 0.0 KM RAT ISLANDS, ALEUTIAN ISLANDS								FIXED DEPTH SOLUTION
11	ASB	IP	18 47 4.1	15.9	.1	2.95	46	26	.3	
		IS	18 47 9.9						-0.0	
11	ASD	IP	18 47 4.7	4.6	.1	2.47	52	31	-0.3	
11	ASC	IP	18 47 5.5				55	15	.1	
11	AND	IP	18 47 7.0				64	360	-0.1	
12	3 13 30.28	51.18 N 179.46 W DEPTH = 54.8 KM DELAROF ISLANDS, ALEUTIAN ISLANDS								FREE DEPTH SOLUTION
12	AMA	IP C	03 13 39.7				27	63	.1	
		IS	03 13 46.2						-0.1	
12	ASD	IP	03 13 45.2	20.3	.1	3.38	87	286	-0.3	
12	ASB	IP	03 13 46.0	17.9	.1	3.34	92	283	-0.2	
		ES	03 13 58.0						.3	
12	ASC	IP	03 13 47.3				101	289	.1	
12	SSI	IP	03 13 47.4				104	321	-0.1	
12	AND	EP	03 13 49.3				118	292	.0	
12	RAT	EP	03 13 55.6				168	295	.2	
12	ADK	EP	03 14 1.2				208	67	1.0	
		ES	03 14 23.9						1.8	
12	3 16 35.04	51.65 N 178.64 E DEPTH = 76.9 KM RAT ISLANDS, ALEUTIAN ISLANDS								FREE DEPTH SOLUTION
12	AND	EP	03 16 46.6				24	114	.0	
		ES	03 16 55.0						-0.0	
12	RAT	EP	03 16 46.7	5.2	.1	2.69	27	308	-0.0	
12	ASC	IP C	03 16 47.7				42	120	.1	
12	ASB	EP	03 16 48.4	3.4	.1	2.56	53	127	-0.0	
12	ASD	IP	03 16 48.6	5.7	.1	2.80	57	120	-0.1	
12	ADK	EP	09 32 .5							
		ES	09 32 24.8							
12	ADK	EP	10 23 41.8							
		ES	10 24 3.7							
12	17 24 20.81	50.99 N 179.54 E DEPTH = 37.4 KM RAT ISLANDS, ALEUTIAN ISLANDS								FREE DEPTH SOLUTION
12	ASD	IP D	17 24 30.5				47	343	.0	
12	ASB	IP D	17 24 30.5	268.1	.2	3.98	46	334	.1	
		IS	17 24 37.0						-0.3	
12	ACE	IP	17 24 31.2				53	331	.0	
12	ASC	IP D	17 24 32.2				59	334	.2	
12	ACA	IP	17 24 32.6				62	332	.2	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
12	AND	IP D	17 24 34.3				76	327	-.0	
12	ANA	EP	17 24 36.7				94	319	-.2	
12	AMA	IP	17 24 37.6				100	70	-.1	
12	SSI	IP	17 24 38.0				101	2	.1	
12	RAT	IP	17 24 40.6	44.7	.1	3.81	124	317	-.1	
.....										
12	19 36 53.50	51.76 N 175.95 E DEPTH = 71.0 KM MB = 4.3						TELESEISMIC SOLUTION		
		RAT ISLANDS, ALEUTIAN ISLANDS								
12	RAT	IP	19 37 17.6				164	88	-.8	
12	ANA	EP	19 37 21.2				187	93	-.1	
12	AND	EP	19 37 23.1				208	95	-.7	
12	ASC	EP	19 37 25.1				224	97	-.6	
12	ASB	EP	19 37 26.5	2.4	.1		232	100	-.2	
		ES	19 37 55.0						4.1	
12	ASD	EP	19 37 28.2	6.7	.1		238	99	.8	
12	SSI	EP	19 37 28.8				250	85	-.1	
12	AMA	EP	19 37 45.3				346	97	4.7	
.....										
12	ASC	EP	22 38 11.8				WIND NOISE			
12	AND	IP	22 38 12.8							
12	ANA	EP	22 38 14.9							
.....										
13	6 43 2.46	51.17 N 178.62 E DEPTH = 24.3 KM						FREE DEPTH SOLUTION		
		RAT ISLANDS, ALEUTIAN ISLANDS								
13	ACE	IP	06 43 11.1				47	56	-.0	
13	ACD	IP	06 43 11.2				47	51	.1	
13	ACB	IP	06 43 11.3				47	45	.2	
13	ACF	IP	06 43 11.3				48	33	.0	
13	ASB	IP	06 43 11.4	12.9	.1	2.93	49	63	-.0	
		ES	06 43 17.8						-.2	
13	AND	IP C	06 43 11.5				50	28	-.1	
13	ANA	IP	06 43 11.6				51	4	-.2	
13	ACA	IP	06 43 11.7				50	45	.2	
13	ASC	IP	06 43 11.8				51	49	.1	
13	ASD	EP	06 43 12.2	3.4	.1	2.39	56	63	-.3	
.....										
13	8 56 38.77	51.39 N 179.68 W DEPTH = 77.4 KM						FREE DEPTH SOLUTION		
		DELAROF ISLANDS, ALEUTIAN ISLANDS								
13	AMA	EP	08 56 51.3				41	106	.0	
13	ASD	IP	08 56 53.3	17.6	.1	3.32	68	271	-.2	
13	ASB	IP	08 56 54.2	24.4	.1	3.48	75	268	.1	
		IS	08 57 5.3						.0	
13	ASC	IP	08 56 54.6				81	276	-.1	
13	AND	EP	08 56 56.4				97	282	.1	
.....										
13	AMA	EP	12 27 52.3	11.1	.2	2.99				
		ES	12 28 9.8							
13	ASD	EP	12 28 .4	7.4	.1					
13	ASB	EP	12 28 1.2	7.5	.1					
		ES	12 28 24.2							
13	ASC	EP	12 28 1.6							
13	ADK	EP	12 28 3.5							
		ES	12 28 28.1							
13	AND	EP	12 28 4.8							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
13	15 49 28.13		52.16 N 178.62 E	DEPTH = 125.4 KM			FREE DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
13	AND	IP	15 49 47.5				71	161	-.1	
13	ASC	EP	15 49 49.0				86	154	.3	
13	ASD	EP	15 49 49.6	5.5	.1	2.98	99	149	-.1	
		ES	15 50 5.5						-.0	
13	ASB	EP	15 49 49.7	4.9	.1	2.93	99	154	-.0	
.....										
13	17 29 18.32		51.44 N 179.54 E	DEPTH = 63.1 KM			FREE DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
13	ASD	IP	17 29 27.9	5.3	.1	2.61	15	248	.0	
13	ASB	IP	17 29 28.2				22	246	.0	
		IS	17 29 35.4						.0	
13	ASC	IP	17 29 28.4				26	275	.0	
.....										
13	17 55 12.70		51.37 N 177.93 W	DEPTH = 27.0 KM			TELESEISMIC SOLUTION			
			ANDREANOF ISLANDS, ALEUTIANS ISLANDS							
13	AMA	EP	17 55 27.4				82	264	.8	
13	ADK	EP	17 55 29.9				103	56	.1	
		ES	17 55 41.9						-.3	
13	SSI	EP	17 55 40.0				181	290	-.6	
13	ASD	IP	17 55 40.8	13.6	.1	3.45	189	272	-.8	
13	ASB	IP	17 55 42.1	95.6	.1	4.31	196	271	-.3	
		ES	17 56 4.4						.3	
13	ASC	EP	17 55 43.1				202	274	-.1	
13	AND	EP	17 55 43.9				217	277	-1.1	
13	RAT	EP	17 55 50.8				263	282	.1	
.....										
13	22 32 8.86		51.26 N 178.84 E	DEPTH = 42.7 KM			FREE DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
13	ACD	IP	22 32 17.0				28	49	.0	
13	ACE	IP	22 32 17.0				28	57	.0	
13	ACB	IP	22 32 17.1				28	39	.1	
13	ASB	IP	22 32 17.2	11.6	.1	2.87	31	69	-.0	
		IS	22 32 23.0						-.3	
13	ASC	IP	22 32 17.4				32	46	.1	
13	ACA	IP	22 32 17.4				31	39	.1	
13	ACF	IP	22 32 17.4				31	21	.1	
13	AND	IP	22 32 17.5				34	14	-.1	
13	ASD	IP	22 32 17.9				38	68	-.0	
13	ANA	IP	22 32 18.4				42	343	-.0	
13	RAT	IP	22 32 21.5	3.3	.1	2.49	69	330	-.1	
13	SSI	IP	22 32 23.9	2.4	.1	2.43	87	36	.0	
.....										
13	23 4 20.06		51.32 N 178.88 E	DEPTH = 42.0 KM			FREE DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
13	ASB	EP	23 04 27.9				26	80	-.0	
		ES	23 04 33.7						.0	
13	ASC	EP	23 04 28.0				25	51	.1	
13	AND	IP	23 04 28.0				28	10	-.1	
13	ASD	EP	23 04 28.6	5.3	.1	2.54	33	76	.0	
13	ANA	EP	23 04 29.1				38	336	.0	
.....										
14	ADK	EP	09 14 10.3							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
		ES	09 14 35.6							
14	ADK	EP	12 27 8.8							
		ES	12 27 22.8							
14	ADK	EP	15 30 4.7							
		ES	15 30 13.1							
14	ANA	IP D	15 32 17.6							
14	AND	IP D	15 32 18.5							
		IS	15 32 21.9							

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15	1 16	.94	51.65 N	178.79 E	DEPTH = 78.7 KM	FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
15	AND	IPGD	01 16 12.3			15	132		-.1	
15	ANA	IPG	01 16 12.3			9	253		.0	
		IS	01 16 20.7						.1	
15	ACF	EPG	01 16 12.8			20	135		.3	
15	RAT	IPG	01 16 13.1	54.6	.1 3.74	36	297		-.2	
15	ACB	EPG	01 16 13.1			29	135		.2	
15	ASC	EPG	01 16 13.2			33	129		.1	
15	ACD	EPG	01 16 13.3			34	136		.1	
15	ASB	EPG	01 16 13.8	10.5	.1 3.04	45	136		-.1	
		ES	01 16 23.0						-.3	
15	ASD	EPG	01 16 14.0	16.1	.1 3.23	48	127		-.1	
15	SSI	IPGD	01 16 15.1	59.8	.1 3.83	61	64		-.0	

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15	5 7	54.73	51.21 N	178.77 E	DEPTH = 28.3 KM	FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
15	ACE	IPGC	05 08 2.1			35	53		.1	
15	ASB	IPGC	05 08 2.2	94.3	.1 3.73	37	64		-.1	
		ES	05 08 7.6						-.2	
15	ACD	IPGC	05 08 2.2			35	47		.2	
15	ACB	IPGD	05 08 2.4			35	38		.3	
15	ACA	EPG	05 08 2.7			38	39		.2	
15	ACF	IPG	05 08 2.7			38	24		.2	
15	ASC	IPGC	05 08 2.8			39	44		.2	
15	AND	IPGD	05 08 2.9			41	18		.1	
15	ASD	IPGC	05 08 3.0	21.3	.1 3.13	44	63		-.3	QDIR
		ES	05 08 8.9						-.6	
15	ANA	IPGD	05 08 3.7			47	350		.1	
15	RAT	IPGD	05 08 6.6	37.3	.1 3.53	72	335		-.6	
15	SSI	IPG	05 08 10.6	34.1	.1 3.59	94	36		.1	
		ES	05 08 21.9						-.0	

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15	ADK	EP	06 23 45.6							
		ES	06 24 4.2							
15	ASD	EP	06 24 22.6	11.3	.2					QP POOR EVENT
		ES	06 25 14.7							
15	AND	EP	06 24 26.7							QP
15	ADK	EP	06 49 54.5							
		ES	06 50 2.1							

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15	7 7	46.23	51.09 N	179.46 W	DEPTH = 29.8 KM	FREE DEPTH SOLUTION				
DELAROF ISLANDS, ALEUTIAN ISLANDS										
15	AMA	IP C	07 07 53.6	20.8	.1 3.05	33	48		.1	
		IS	07 07 58.4						-.4	
15	ASD	EP	07 08 1.4	11.1	.1 3.08	90	292		.0	
		ES	07 08 12.4						-.0	
15	ASB	EP	07 08 2.0	9.3	.1 3.03	95	289		-.1	

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NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.		ES	07 08 13.4						-0.3	
. 15	ASC	EP	07 08 3.7				104	294	.2	
. 15	SSI	EP	07 08 4.7	16.0	.1	3.32	111	324	.2	
. 15	AND	EP	07 08 6.3				122	296	.1	
. 15	ANA	EP	07 08 9.1				144	295	-0.2	
. 15	RAT	EP	07 08 12.8	13.3	.3	2.93	172	298	-0.0	
.....										
15	RAT	IP	09 23 48.3	16.4	.2	2.93				
		ES	09 23 58.1							
15	ANA	EP	09 23 51.1							
15	AND	EP	09 23 53.4							
15	SSI	EP	09 24 0.0	10.6	.1					
.....										
15	9 32	2.20	51.68 N 176.14 W	DEPTH = 54.0 KM MB = 5.2				TELESEISMIC SOLUTION		
			ANDREANOF ISLANDS, ALEUTIANS ISLANDS							
. 15	ADK	IPD	09 32 13.2				44	301	.5	FELT IV. 5.7ML.
.		ES	09 32 21.3						.9	
. 15	AMA	IP C	09 32 30.9				210	259	-1.6	OL
.		I	09 32 33.8							
. 15	SSI	IP	09 32 44.2				295	276	1.3	OL
. 15	ASD	IP	09 32 45.9				314	266	.6	OL
. 15	ASB	EP	09 32 46.7				321	265	.6	OL
.		I	09 32 49.7							
. 15	ASC	IP	09 32 47.7				326	268	1.0	
. 15	AND	EP	09 32 49.2				339	270	.8	
. 15	ANA	EP	09 32 52.2				359	271	1.4	
. 15	RAT	IP	09 32 55.1				381	274	1.6	WHITE OUT
. 15	NIK	EP	09 33 11.8				516	71	1.6	
. 15	SHY	EP	09 33 31.1				675	284	1.3	
. 15	ADK	EP	09 34 21.6				44	301	128.9	
.		ES	09 34 30.7						130.3	
. 15	GMA	EP	09 35 45.6				1755	23	2.5	
.....										
15	ADK	EP	09 37 52.1							5.2ML. D 1.8
		ES	09 38 14.5							
15	ADK	EP	10 19 34.9							
		ES	10 19 47.7							
15	ADK	EP	10 27 47.9							
		ES	10 27 55.4							
15	RAT	IP C	14 14 3.5							WHITE OUT
		ES	14 14 7.0							
15	ANA	IP C	14 14 6.5							
15	AND	EP	14 14 8.5							
15	SSI	EP	14 14 12.1	75.2	.2					
15	ASB	EP	14 14 13.8	10.1	.1	3.06				LOOKS PECULIAR
		E(S)	14 14 24.8							
15	ASD	EP	14 14 13.8	11.1	.1	3.10				QP
15	RAT	IP C	14 30 23.4	56.1	.1	3.35				
		ES	14 30 26.8							
15	ANA	IP D	14 30 26.5							
15	AND	EP	14 30 28.3							
		ES	14 30 37.1							
15	ASC	EP	14 30 31.6							
15	SSI	EP	14 30 32.2	26.6	.1					POOR TAMP
15	ASB	E(P)	14 30 33.5	8.7	.2	2.77				
15	ASD	EP	14 30 33.9	3.9	.1	2.73				
		E(S)	14 30 47.4							
15	RAT	IP C	14 34 55.7	51.7	.1	3.32				
		IS	14 34 59.2							
15	ANA	IP	14 34 58.7							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
15	ANA	EP	14 35 .6							
15	SSI	EP	14 35 4.2	19.9	.1					
15	ASC	E(P)	14 35 4.2							
15	ASD	EP	14 35 6.2							
		E(S)	14 35 19.7							
.....										
15	15 45 54.29	52.08 N 179.06 E DEPTH = 163.8 KM						FREE DEPTH SOLUTION		
		RAT ISLANDS, ALEUTIAN ISLANDS								
15	AND	IP	15 46 17.3				58	187	-.1	
15	RAT	IP	15 46 17.3	23.3	.1	3.64	59	238	-.1	
		ES	15 46 34.3						.0	
15	ANA	IP	15 46 17.5				58	209	.2	
15	ASC	EP	15 46 17.9				69	174	.0	
15	ASD	IP	15 46 18.4	13.7	.1	3.43	79	166	-.0	
15	ASB	EP	15 46 18.5	20.4	.1	3.61	81	171	-.0	
		IS	15 46 36.2						-.0	
15	AMA	IP	15 46 24.0	14.3	.1	3.53	154	124	.0	
.....										
15	15 49 47.07	52.05 N 179.90 E DEPTH = 166.5 KM						FREE DEPTH SOLUTION		
		RAT ISLANDS, ALEUTIAN ISLANDS								
15	SSI	EP	15 50 9.5	25.1	.2	3.36	28	231	.0	
15	ASD	IP	15 50 11.7	2.8	.1	2.75	83	208	-.0	
15	AND	IP	15 50 11.8				85	231	-.0	
15	ASC	EP	15 50 12.0				83	218	.3	
15	ASB	EP	15 50 12.1	4.3	.1	2.94	89	211	.0	
		ES	15 50 30.1						-.2	
15	ANA	IP	15 50 12.7				97	242	.1	
15	AMA	IP	15 50 13.2	49.6	.2	3.73	109	141	-.2	
		ES	15 50 32.8						.2	
15	RAT	IP C	15 50 13.4	23.3	.1	3.70	111	256	-.2	
.....										
15	ADK	EP	18 40 52.2							
		ES	18 41 .6							
15	AMA	IP	18 41 11.0	21.2	.2					
		E(S)	18 41 36.2							
15	ASD	E(P)	18 41 23.2	4.8	.1					
.....										
15	22 14 36.31	51.30 N 177.59 E DEPTH = 30.7 KM						FREE DEPTH SOLUTION		
		RAT ISLANDS, ALEUTIAN ISLANDS								
15	RAT	IP C	22 14 49.2				75	43	-.2	WHITE OUT
15	ANA	IP D	22 14 50.8				82	64	.4	
15	AND	IP D	22 14 52.9				99	73	.1	
15	ASC	IP D	22 14 54.7				111	80	.1	
15	ASB	IP	22 14 55.1	54.5	.1	3.87	115	86	-.1	
		ES	22 15 9.0						-.0	
15	ASD	IP	22 14 55.9	74.6	.2	3.72	122	85	-.4	
15	SSI	EP	22 15 .2				153	64	-.2	WHITE OUT
15	AMA	EP	22 15 10.1	17.3	.1		230	89	.2	
15	ADK	EP	22 15 31.4				401	79	.4	
		ES	22 16 13.1						2.1	
.....										
16	ADK	EP	00 43 18.8							
		ES	00 43 26.9							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
16	0 53	53.12	51.37 N 179.42 E	DEPTH = 53.4 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
16	ASD	IPGC	00 54 1.2				6	288	-.1	
16	ASB	IPGC	00 54 1.4	89.4	.1	3.77	12	263	-.1	
		ES	00 54 7.5						-.0	
16	ACE	IPGC	00 54 1.6				18	280	-.1	
16	ACD	IPGC	00 54 1.9				21	287	.1	
16	ASC	IPG	00 54 2.0				21	299	.2	
16	ACA	IPGC	00 54 2.1				24	299	.1	
16	ACB	IPGC	00 54 2.1				25	293	.0	
16	ACF	IPGD	00 54 2.9				34	300	.1	
16	AND	IPG	00 54 3.0				39	303	-.1	
16	SSI	IPGD	00 54 5.0	51.4	.1	3.68	59	11	-.1	
		ES	00 54 13.9						.1	
16	ANA	IPGD	00 54 5.3				60	298	.1	
16	RAT	IP D	00 54 8.5	22.4	.1	3.43	89	302	-.1	
16	AMA	EP	00 54 10.2	11.3	.1	3.17	102	95	.0	POOR TAMP
.....										
16	1 23	36.00	49.66 N 147.73 E	DEPTH = 583.0 KM MB = 4.8			TELESEISMIC SOLUTION			
SEA OF OKHOTSK										
16	RAT	EP	01 27 25.5	135.9	.4		2159	72		
16	AND	EP	01 27 29.4				2205	73		
16	ASC	EP	01 27 30.5				2221	73		TELE
16	ANA	IP	01 27 31.1				2184	72		
16	ASB	EP	01 27 31.4	11.1	.3		2228	73		
16	ASD	IP D	01 27 31.6	47.6	.3		2234	73		
.....										
16	ASB	EP	02 51 42.7	3.0	.1	2.71				
		ES	02 51 59.6							
16	ASD	EP	02 51 43.1	2.5	.1	2.64				V. EMERGENT
16	AND	EP	02 51 45.4							
.....										
16	3 22	25.77	51.71 N 179.51 W	DEPTH = 92.1 KM			FREE DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
16	AMA	IP	03 22 40.7	74.8	.1	3.96	54	149	.0	
16	SSI	IP D	03 22 41.7	66.5	.1	3.93	66	289	.2	
		ES	03 22 52.9						-.1	
16	ASD	IP C	03 22 43.2	62.7	.1	3.95	87	247	-.2	
16	ASB	IP C	03 22 44.1	86.1	.2	3.80	94	246	.0	
		IS	03 22 57.6						.2	
16	ASC	IP	03 22 44.3				96	254	.1	
16	AND	IP	03 22 45.3				107	262	-.1	
16	ANA	IP	03 22 47.5				127	267	.1	
16	RAT	EP	03 22 49.8	44.7	.1	3.93	149	275	-.1	
16	ADK	EP	03 22 55.2				195	83	.0	
		ES	03 23 17.4						.8	
.....										
16	AMA	IPGD	04 57 4.9	51.9	.1	3.29				
		IS	04 57 8.1							
16	ASD	EP	04 57 18.9	2.4	.1	2.48				
16	SSI	EP	04 57 19.8	12.4	.1	3.24				
		IS	04 57 33.6							
16	ASB	IP	04 57 19.9	3.6	.1	2.68				
		ES	04 57 32.9							
16	ASC	IP	04 57 21.1							
16	AND	E(P)	04 57 23.0							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
16	5 29	37.90	51.83 N 176.81 W	DEPTH = 84.0 KM			TELESEISMIC SOLUTION			
			ANDREANOF ISLANDS, ALEUTIANS ISLANDS							
16	ADK	IP	05 29 50.0				10	55	.1	
		ES	05 29 58.3						-.3	
16	AMA	IP	05 30 4.3	16.2	.2	3.22	170	250	.2	
		E(S)	05 30 23.6						.4	
16	SSI	EP	05 30 13.6	5.4	.2		248	273	.3	
16	ASD	EP	05 30 16.3	2.5	.1		271	261	.2	
16	ASB	EP	05 30 17.3	3.0	.1		278	261	.4	
		E(S)	05 30 45.3						-.1	
16	ASC	EP	05 30 18.0				281	263	.7	
16	AND	E(P)	05 30 19.4				294	266	.5	
.....										
16	6 47	29.64	51.43 N 178.76 E	DEPTH = 45.5 KM			FREE DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
16	AND	IPGC	06 47 37.5				20	41	.0	
16	ACF	IPGD	06 47 37.6				19	56	.2	
16	ACB	IPGC	06 47 37.8				23	80	.1	
16	ACD	IPGC	06 47 37.9				26	90	.0	
16	ANA	IPGD	06 47 38.0				23	342	.3	
16	ACA	IPGC	06 47 38.0				25	76	.2	
16	ACE	IPGC	06 47 38.0				29	96	-.1	
16	ASC	IPGC	06 47 38.2				28	82	.2	
16	ASB	IPGC	06 47 38.4	110.4	.1	3.88	34	102	-.2	
		ES	06 47 44.5						-.6	
16	ASD	IPGC	06 47 39.1				40	95	-.1	
16	RAT	IPGD	06 47 40.2	49.7	.1	3.60	51	324	-.1	
		ES	06 47 47.6						-.5	
16	SSI	IPGC	06 47 43.5	60.7	.1	3.80	77	47	.1	
		ES	06 47 53.4						-.1	
.....										
16	7 58	22.74	51.57 N 179.70 W	DEPTH = 83.3 KM			FREE DEPTH SOLUTION			
			DELAROF ISLANDS, ALEUTIAN ISLANDS							
16	AMA	E(P)	07 58 36.6				52	127	-.0	
16	SSI	EP	07 58 37.3	3.6	.1	2.63	61	306	-.0	
16	ASD	IP	07 58 37.9	3.1	.1	2.58	69	254	-.1	
16	ASB	IP	07 58 38.7	12.3	.2	2.90	77	253	.0	
		ES	07 58 50.3						-.0	
16	ASC	EP	07 58 39.1				79	262	.2	
16	AND	EP	07 58 40.2				93	270	-.1	
.....										
16	8 27	45.40	31.05 N 138.24 E	DEPTH = 421.0 KM MB = 4.4			TELESEISMIC SOLUTION			
			SOUTH OF HONSHU, JAPAN							
16	ANA	EP	08 34 11.8				4007	43		TELE
16	AND	EP	08 34 13.1				4024	44		
16	ASB	EP	08 34 13.7	5.6	.3		4037	44		
16	ASC	EP	08 34 14.1				4035	44		
16	ASD	EP	08 34 14.4	27.4	.4		4044	44		
16	ADK	EP	08 34 33.9				4324	44		
.....										
16	8 43	33.31	51.48 N 179.37 E	DEPTH = 62.6 KM			FREE DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
16	ASD	EPG	08 43 42.7	3.1	.1	2.36	10	193	.0	
16	ASB	EPG	08 43 42.8	3.8	.1	2.46	16	214	-.1	
		ES	08 43 49.8						-.0	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
16	ASC	EPG	08 43 42.8				15	264	-.0	
16	ACE	E(P)	08 43 42.8				16	239	-.1	
16	ACA	EPG	08 43 43.0				18	272	.1	
16	ACD	EP	08 43 43.0				17	252	.1	
16	ACB	EPG	08 43 43.1				20	265	.1	
16	AND	EPG	08 43 43.4				31	288	-.2	
16	ACF	EP	08 43 43.5				27	282	.1	
16	ANA	E(P)	08 43 45.3				52	289	.0	QP
.....										
16	11 51 3.06	51.07 N 179.96 W DEPTH = 28.2 KM DELAROF ISLANDS, ALEUTIAN ISLANDS								FREE DEPTH SOLUTION
16	ASD	EP	11 51 14.1	2.8	.1	2.35	60	306	.2	
16	AMA	EP	11 51 14.3	4.7	.1	2.59	64	68	-.0	
16	ASB	E(P)	11 51 14.4	2.5	.1	2.32	64	300	.0	
16		ES	11 51 22.5						-.2	
16	ASC	EP	11 51 16.0				75	306	.0	
16	AND	E(P)	11 51 18.5				93	306	-.2	
16	SSI	P	11 51 19.2	36.8	.1	3.63	97	341	.0	
.....										
16	14 37 39.83	51.54 N 179.33 W DEPTH = 0.0 KM DELAROF ISLANDS, ALEUTIAN ISLANDS								FIXED DEPTH SOLUTION
16	AMA	IPGD	14 37 45.9				32	152	.2	WHITE OUT
16		ES	14 37 50.7						.8	
16	ASD	EP	14 37 55.6	20.7	.1	3.35	94	260	-.9	
16	ASB	EP	14 37 56.3	16.3	.1	3.28	101	259	-1.3	
16	ASC	EP	14 37 57.7				105	266	-.5	
16	SSI	EP	14 37 59.1	51.0	.1	3.70	84	298	4.1	
16	AND	EP	14 38 .8				119	272	.5	
16	ANA	EP	14 38 3.5				140	275	.1	QP
16	RAT	E(P)	14 38 7.7				164	281	.6	
16	ADK	EP	14 38 9.5				186	77	-.9	
16		ES	14 38 33.0						.3	
.....										
16	14 56 40.56	51.07 N 178.66 E DEPTH = 71.5 KM RAT ISLANDS, ALEUTIAN ISLANDS								FREE DEPTH SOLUTION
16	ASB	EP	14 56 53.3	2.0	.1	2.31	52	52	-.0	QS POOR EVENT
16		ES	14 57 2.6						-.0	
16	ASC	EP	14 56 53.7				56	39	.1	
16	AND	IP	14 56 53.8				58	21	-.0	
16	ASD	EP	14 56 53.9	2.7	.1	2.45	59	53	-.0	
.....										
16	15 2 7.31	51.07 N 178.99 E DEPTH = 25.0 KM RAT ISLANDS, ALEUTIAN ISLANDS								FIXED DEPTH SOLUTION
16	ASD	EPG	15 02 14.0	2.9	.1	2.26	44	34	-1.6	
16	ASB	EPG	15 02 14.5	1.9	.1	2.02	37	28	-.2	
16		ES	15 02 20.5						.4	
16	ACE	EPG	15 02 15.3				39	18	.3	
16	ASC	EPG	15 02 15.8				46	15	-.1	
16	ACB	EPG	15 02 16.2				45	9	.5	
16	AMA	IPG	15 02 29.4	10.3	.1	3.20	135	79	.4	
16		E	15 02 38.1							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
16	15	2	17.28	50.88 N	179.83 E	DEPTH = 50.0 KM				FIXED DEPTH SOLUTION
				RAT ISLANDS, ALEUTIAN ISLANDS						
16	ASD	IPG	15 02 29.6	14.4	.1	3.15	66	329	-.3	
16	ASB	IPG	15 02 30.1	13.6	.1	3.12	67	323	.1	
		ES	15 02 39.3						-.0	
16	ASC	EPG	15 02 31.0				80	325	-.5	
16	AND	IP	15 02 34.3				98	322	.6	
16	SSI	EP	15 02 35.8	51.0	.1	3.85	114	352	.1	
.....										
16	16	17	20.44	52.04 N	178.09 E	DEPTH = 134.6 KM				FREE DEPTH SOLUTION
				RAT ISLANDS, ALEUTIAN ISLANDS						
16	RAT	IP	16 17 39.0	7.9	.1	3.08	32	149	-.1	
		IS	16 17 52.7						-.0	
16	ANA	EP	16 17 40.6				61	140	.3	
16	AND	EP	16 17 41.3				80	132	-.2	
16	SSI	E(P)	16 17 43.3	1.5	.1	2.44	104	99	.0	
.....										
16	ADK	EP	17 10 46.9							
		ES	17 10 54.6							
.....										
16	18	58	54.20	33.63 S	179.78 W	DEPTH = 33.0 KM MB = 5.1				TELESEISMIC SOLUTION
				SOUTH OF KERMADEC ISLANDS						
16	ADK	EP	19 11 27.4				9473	2		
.....										
17	ADK	EP	00 33 13.3							
		ES	00 33 22.0							
17	ADK	EP	01 42 43.2							
		ES	01 42 58.6							
17	ADK	EP	05 19 11.0							
		ES	05 19 26.1							
.....										
17	5	28	26.94	51.71 N	178.83 W	DEPTH = 81.6 KM				FREE DEPTH SOLUTION
				DELAROF ISLANDS, ALEUTIAN ISLANDS						
17	ANA	IP D	05 28 40.5	138.4	.1	4.18	50	203	-.0	
17	SSI	IP C	05 28 46.3	53.2	.1	3.91	111	281	.1	
17	ADK	EP	05 28 47.8				149	82	-2.7	
		ES	05 29 8.2						.5	
17	ASD	IP	05 28 48.4	8.0	.1	3.13	131	255	-.1	
17	ASB	IP	05 28 49.3	8.3	.1	3.17	139	255	-.0	
		ES	05 29 5.6						-.1	
17	ASC	IP	05 28 49.9				141	260	.3	
17	ANA	IP	05 28 53.6				174	268	.2	
17	RAT	IP D	05 28 55.7				196	274	-.3	
.....										
17	6	35	55.84	50.20 N	177.71 E	DEPTH = 100.0 KM				FIXED DEPTH SOLUTION
				RAT ISLANDS, ALEUTIAN ISLANDS						
17	ACE	IP	06 36 22.1				169	37	-.5	
17	ASB	IP C	06 36 22.2				169	39	-.3	
17	ACD	EP	06 36 22.4				170	36	-.3	
17	ACB	EP	06 36 22.5				171	34	-.3	
17	ACF	P	06 36 23.1				173	31	.1	
17	ASD	IP D	06 36 22.9				176	40	-.4	
17	AND	IP	06 36 22.9				175	29	-.4	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
17	ANA	IP	06 36 22.9				173	22	-.1	
17	ACA	EP	06 36 22.9				174	34	-.2	
17	RAT	IP	06 36 24.9			3.17	184	14	.7	
17	SSI	IP	06 36 30.9	66.5	.1		230	34	1.3	
		E(S)	06 36 54.3						.0	
17	AMA	IP	06 36 33.2	16.2	.1		255	60	.6	

17 8 59 16.40 52.28 N 170.95 W DEPTH = 33.0 KM MB = 4.3 TELESEISMIC SOLUTION
FOX ISLANDS, ALEUTIAN ISLANDS

17 ADK EP 09 00 10.6 396 266
ES 09 00 52.5

17 10 37 34.30 52.34 N 179.10 W DEPTH = 222.5 KM FREE DEPTH SOLUTION
DELAROF ISLANDS, ALEUTIAN ISLANDS

17	SSI	EP	10 38 6.3				103	242	.1	
17	AMA	EP C	10 38 6.9	2.9	.1	2.89	117	180	-.1	
17	ASD	IP D	10 38 9.3	34.4	.1	3.99	151	226	.1	
17	ASB	EP	10 38 9.7	46.8	.1	4.13	158	227	-.1	
		IS	10 38 35.6						-.1	
17	ASC	IP	10 38 9.8				154	232	.3	
17	AND	IP	10 38 10.0				159	238	.1	
17	ANA	IP	10 38 10.8				173	244	-.1	
17	RAT	IP C	10 38 11.8	5.5	.1	3.22	186	252	-.2	

17 ADK EP 12 53 32.1
ES 12 53 49.7

17 ADK EP 14 33 9.9
ES 14 33 17.2

17 ADK EP 17 01 18.2
ES 17 01 25.8

17 17 18 21.03 51.68 N 177.89 E DEPTH = 62.2 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

17	RAT	IP	17 18 31.4	44.7	.1	3.57	34	66	-.1	
17	ANA	IP	17 18 33.3				54	95	.2	
17	AND	IP	17 18 35.1				75	99	-.2	
17	ASC	IP	17 18 37.4				92	104	.3	
17	ASB	IP D	17 18 38.0	26.8	.1	3.55	101	110	-.1	
		ES	17 18 50.6						-.0	
17	ASD	IP D	17 18 38.7	16.0	.1	3.34	106	107	-.0	
17	SSI	IP C	17 18 40.4	46.5	.1	3.85	120	78	.0	

17 23 56 49.44 51.48 N 179.81 E DEPTH = 58.1 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

17	ASD	EP	23 56 59.3	4.6	.1	2.57	34	253	-.2	
17	ASB	EP	23 56 59.9	2.7	.1	2.36	41	251	-.2	
		ES	23 57 7.8						-.0	
17	SSI	IP	23 57 .7	10.0	.1	2.95	48	342	.0	
17	ACE	IP	23 57 .9				45	258	.5	
17	ANA	EP	23 57 4.0				81	282	-.1	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
18	0 3 24.64		51.61 N 179.66 W				DEPTH = 79.8 KM			FREE DEPTH SOLUTION
			DELAROF ISLANDS, ALEUTIAN ISLANDS							
18	AMA	EP	00 03 38.2				52	133	.0	
18	SSI	EP	00 03 38.9				61	302	-.0	
18	ASD	IP	00 03 40.0	7.7	.1	2.98	73	251	.0	
18	ASB	EP	00 03 40.6	9.2	.1	3.07	81	251	-.1	
		ES	00 03 52.5						.1	
18	AND	EP	00 03 42.0				96	268	-.3	
18	ANA	IP	00 03 44.7				116	272	.3	
18	1 47 26.05		51.42 N 178.43 E				DEPTH = 40.3 KM			FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
18	ANA	IP	01 47 34.2				28	35	.3	
18	RAT	IP	01 47 35.1				42	351	-.3	
		ES	01 47 42.0						-.2	
18	AND	IP	01 47 35.3				39	67	.2	
18	ACF	EP	01 47 35.4				41	74	.2	
18	ACB	IP	01 47 36.1				46	84	.3	
18	ACD	IP	01 47 36.3				49	89	.1	
18	ACE	IP	01 47 36.5				52	93	-.0	
18	ASC	IP	01 47 36.6				51	85	.1	
18	ASB	EP	01 47 36.9	5.2	.1	2.63	57	97	-.3	POOR P.
		ES	01 47 44.8						-.5	
18	ASD	IP	01 47 37.8	7.1	.1	2.80	63	93	-.2	
18	SSI	IP	01 47 42.2	53.2	.1	3.80	95	56	-.0	
18	16 9 34.26		51.58 N 178.72 E				DEPTH = 76.6 KM			FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
18	ANA	EP	16 09 45.3				7	325	.0	
18	AND	IP	16 09 45.5				17	96	-.0	
		ES	16 09 53.7						-.0	
18	RAT	EP	16 09 46.4	8.2	.1	2.91	36	313	.0	
18	ASB	EP	16 09 46.9	3.3	.1	2.53	44	123	-.0	
18	ASD	IP	16 09 47.2	5.0	.1	2.72	48	115	.0	
18	21 6 26.03		51.50 N 179.38 E				DEPTH = 61.8 KM			FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
18	ASD	EP	21 06 35.5	3.8	.1	2.45	13	193	.1	
18	ASB	EP	21 06 35.5	2.9	.1	2.34	18	211	-.1	
		ES	21 06 42.7						.1	
18	AND	EP	21 06 35.8				30	283	-.4	
18	SSI	IP	21 06 37.4	4.6	.1	2.62	46	18	.0	
18	ANA	EP	21 06 38.2				52	286	.3	
19	1 33 54.30		51.57 N 179.02 E				DEPTH = 47.8 KM			FREE DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
19	ACF	EP	01 34 1.9				5	203	.1	
19	AND	IP	01 34 1.9				5	260	.1	
19	ACB	IP	01 34 2.2				13	159	.2	
19	ACE	IP	01 34 2.4				22	151	-.0	
19	ANA	IP	01 34 2.4				26	284	-.3	
19	ACD	IP	01 34 2.5				18	154	.3	
19	ASD	EP	01 34 2.9	1.7	.1	2.05	30	132	-.1	
		ES	01 34 9.0						-.4	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
19	3	7	2.21	51.94 N	179.19 W	DEPTH = 118.2 KM	FREE DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
19	AMA	EP	03 07 21.1	7.6	.1	3.07	72	176	.0	
19	SSI	IP	03 07 21.9				84	267	-.0	
19	ASD	IP	03 07 24.8	16.2	.1	3.47	118	240	-.1	
		E(S)	03 07 41.4						.0	
19	ASB	IP	03 07 25.5	17.8	.1	3.53	126	240	-.1	
19	AND	EP	03 07 26.5				135	253	.1	
19	ANA	EP	03 07 28.2				152	258	.0	
.....										
19	4	8	54.62	51.26 N	179.75 E	DEPTH = 25.0 KM	FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
19	ASD	IP	04 09 .9	10.4	.1	2.72	32	297	-.4	
19	ASB	IP C	04 09 1.8	12.0	.1	2.82	37	287	-.1	
		IS	04 09 6.9						-.4	
19	ACE	EP	04 09 2.8				43	291	.0	
19	ACD	EP	04 09 3.4				47	293	.1	
19	ASC	EP	04 09 3.4				46	299	.1	
19	ACB	IP	04 09 4.0				51	296	.1	
19	ACF	EP	04 09 5.2				60	299	-.0	
19	AND	EP	04 09 6.4				65	301	.5	
19	SSI	IP	04 09 6.7				71	351	-.1	
.....										
19	8	2	36.04	51.23 N	178.86 E	DEPTH = 40.9 KM	FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
19	ASB	IP C	08 02 44.1	31.1	.1	3.28	31	61	-.1	
		IS	08 02 49.9						-.3	
19	ACD	EP	08 02 44.2				29	41	.1	
19	ACB	IP	08 02 44.4				31	32	.2	
19	ASC	IP	08 02 44.6				34	39	.1	
19	ACA	IP	08 02 44.7				33	33	.2	
19	ASD	IP	08 02 44.9	46.1	.1	3.49	38	61	-.1	
19	AND	IP	08 02 44.9				38	10	-.1	
19	ANA	IP C	08 02 46.0				46	343	.1	
19	RAT	IP C	08 02 49.2	34.8	.1	3.53	73	330	-.2	
19	SSI	IP C	08 02 51.4	110.8	.1	4.10	90	34	-.0	
.....										
19	13	17	15.16	50.48 N	177.74 E	DEPTH = 0.0 KM	FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
19	ACE	EP	13 17 39.4				144	44	.1	
19	ACD	EP	13 17 39.5				144	42	.1	
19	ASB	IP D	13 17 39.5	9.9	.1	3.20	144	47	.1	
		IS	13 17 57.1						-.0	
19	ACB	IP	13 17 39.6				145	40	.1	
19	ANA	IP D	13 17 39.6				143	26	.3	
19	ACA	IP	13 17 39.9				148	40	-.0	
19	ACF	EP	13 17 39.9				146	37	.2	
19	AND	IP C	13 17 39.9				148	35	-.0	
19	ASC	IP	13 17 40.2				148	42	.2	
19	ASD	IP	13 17 40.3	7.3	.1	3.09	151	47	-.2	
19	RAT	EP	13 17 40.5	15.8	.1	3.43	153	15	-.2	
19	SSI	EP	13 17 48.0	44.3	.1		203	39	-.4	
.....										
19	AMA	IP D	15 00 28.5							
19	ASD	EP	15 00 43.0	2.9	.1	2.60				
19	SSI	EP	15 00 44.0							
19	ASB	EP	15 00 44.3							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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		ES	15 00 58.4							
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19	ADK	IP	16 17 5.9							
		ES	16 17 14.1							

20	0 53 59.15	51.06 N 179.47 E	DEPTH = 50.0 KM	FIXED DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										
20	ACE	IP	00 54 9.0				44	332	-.3	
20	ACD	IP	00 54 9.5				48	331	-.2	
20	ACA	EP	00 54 10.1				53	333	-.2	
20	ACB	EP	00 54 10.1				52	330	-.1	
20	ACF	IP	00 54 11.4				62	328	.1	
20	SSI	IP	00 54 15.2	21.0	.1	3.41	94	5	.2	
20	AMA	EP	00 54 16.2	2.9	.1	2.57	103	75	.1	
20	RAT	EP	00 54 18.2	6.3	.1	2.95	115	317	.6	

20	3 8 12.49	51.64 N 179.48 E	DEPTH = 86.6 KM	FREE DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										
20	ASD	EP C	03 08 25.4	2.1	.1	2.34	30	199	-.0	
20	ASB	IP D	03 08 25.6	3.7	.1	2.60	35	207	-.1	
		ES	03 08 35.3						.0	
20	ASC	EP	03 08 25.6				30	227	.2	
20	AND	EP	03 08 25.6				37	256	-.2	
20	ANA	IP D	03 08 27.1				56	268	.1	

20	3 15 21.01	51.96 N 179.00 E	DEPTH = 187.0 KM	FREE DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										
20	AND	EP	03 15 46.3				45	184	-.0	
20	RAT	IP	03 15 46.4	13.7	.1	3.46	49	249	-.1	
20	ANA	IP D	03 15 46.4				44	212	.1	
20	ASC	IP	03 15 46.9				57	168	.2	
20	ASD	EP	03 15 47.1	4.1	.1	2.94	68	159	-.1	
20	ASB	EP	03 15 47.2	3.7	.1	2.90	69	165	-.0	
		ES	03 16 6.4						-.0	

20	4 3 36.10	51.06 N 179.44 W	DEPTH = 21.0 KM	TELESEISMIC SOLUTION						
DELAROF ISLANDS, ALEUTIAN ISLANDS										
20	AMA	IP D	04 03 43.0				35	42	.1	
		IS	04 03 47.7						-.1	
20	ASD	IP C	04 03 51.9	37.8	.1	3.62	93	294	.5	
		ES	04 04 6.4						3.8	
20	ASB	EP	04 03 52.5				97	291	.3	
20	ASC	EP	04 03 54.0				107	296	.4	
20	SSI	IP C	04 03 55.2	75.4	.1	4.00	115	325	.4	
20	AND	EP	04 03 56.7				125	297	.4	
20	ANA	EP	04 03 59.3				146	296	-.2	
20	RAT	EP	04 04 2.9				175	299	-.9	
20	ADK	EP	04 04 8.0				212	63	-.4	
		ES	04 04 31.1						-.9	

20	4 27 8.46	51.20 N 178.54 E	DEPTH = 28.1 KM	FREE DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										
20	ACB	IP	04 27 17.7				48	52	.1	
20	ACD	IP	04 27 17.8				49	58	.2	
20	AND	IP D	04 27 17.8				50	35	.0	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
20	ANA	IP D	04 27 17.9				49	10	.3	
20	ACA	IP	04 27 18.1				51	52	.1	
20	ASB	IP C	04 27 18.1	28.9	.1	3.32	52	69	-.0	
		IS	04 27 24.7						-.5	
20	ASC	IP	04 27 18.3				53	55	.2	
20	ASD	IP	04 27 18.9	6.0	.1	2.68	60	68	-.3	
20	RAT	IP	04 27 20.0	15.3	.1	3.13	69	348	-.4	
20	SSI	IP C	04 27 26.0	9.8	.1	3.09	106	43	.0	

20 7 28 1.00 23.40 S 179.91 W DEPTH = 551.0 KM MB = 6.0 TELESEISMIC SOLUTION
SOUTH OF FIJI ISLANDS

20	AMA	EP	07 38 43.2				8269	1		
20	ASB	EP	07 38 43.4				8277	359		
20	ASD	EP	07 38 43.6				8280	360		TELESEISMIC
20	ASC	EP	07 38 44.4				8288	359		
20	AND	EP	07 38 44.7				8299	359		
20	ANA	EP	07 38 45.1				8307	359		
20	RAT	EP	07 38 45.9				8327	359		
20	ADK	IP	07 38 46.4				8340	2		
20	SSI	EP	07 38 46.5				8336	360		

20	ADK	EP	07 44 50.5	6.2	.5					
20	ASB	IP	11 09 39.3	17.4	.1	3.48				
		IS	11 09 56.4							
20	ASD	IP D	11 09 39.6	37.8	.1	3.82				
		E(T)	11 10 59.1							
20	ASC	IP	11 09 40.8							
20	AMA	IP	11 09 42.0	27.1	.1					
20	AND	IP	11 09 42.3							
20	ANA	IP C	11 09 43.9							
20	RAT	IP	11 09 47.5							
20	SSI	IP D	11 09 47.8	159.6	.1					
20	ADK	EP	11 10 3.4							
		ES	11 10 37.8							
20	AMA	IP D	11 47 11.4							
20	ASD	EP	11 47 24.9	32.3	.1					
20	ASB	EP	11 47 25.8	24.4	.1					
		ES	11 47 48.5							
20	ADK	EP	11 47 26.1							
		ES	11 47 43.2							
20	SSI	IP C	11 47 26.9	7.1	.1					
20	ASC	EP	11 47 27.2							
20	AND	EP	11 47 30.6							
20	ANA	EP	11 47 33.0							
20	RAT	IP C	11 47 36.2							

20 13 37 11.89 51.01 N 178.81 E DEPTH = 29.8 KM FREE DEPTH SOLUTION
RAT ISLANDS, ALEUTIAN ISLANDS

20	ASB	IP C	13 37 21.2	11.6	.2	2.60	50	38	-.1	
		ES	13 37 28.2						.1	
20	ACE	IP	13 37 21.4				50	30	.0	
20	ACF	IP	13 37 21.4				59	12	-1.2	
20	ACD	EP	13 37 21.7				52	26	.1	
20	ACB	IP	13 37 22.1				54	21	.2	
20	ASD	EP	13 37 22.2	3.9	.1	2.47	56	41	-.0	
20	ASC	EP	13 37 22.3				56	26	.1	
20	ACA	EP	13 37 22.4				57	22	.1	
20	AND	EP	13 37 23.1				62	9	.0	
20	ANA	EP	13 37 24.4				70	351	.3	
20	RAT	IP	13 37 27.7	4.4	.1	2.70	94	339	.0	
20	SSI	EP	13 37 30.4	4.9	.1	2.81	112	28	.0	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
20	13 59	4.30	40.28 N 124.44 W	DEPTH = 25.0 KM	MB = 5.0	MS = 4.6	TELESEISMIC SOLUTION NEAR COAST OF NORTHERN CALIF.			
20	ADK	EP	14 06 15.0				4145	306		
20	AMA	IP	14 08 45.3							
20	ADK	EP	14 08 48.5							
		ES	14 09 11.0							
20	ASD	EP	14 08 55.9							
20	ASB	EP	14 08 57.2							
		ES	14 09 22.8							
20	ASC	EP	14 08 58.1							
20	SSI	EP	14 09 .1							
20	AND	EP	14 09 .3							
20	ADK	EP	14 23 15.2							
		ES	14 23 37.4							
20	ADK	EP	14 52 6.0							
		ES	14 52 18.2							
20	ADK	EP	14 54 42.0							
		ES	14 54 54.5							
20	21 5 49.60	51.74 N 179.96 E	DEPTH = 91.3 KM	FREE DEPTH SOLUTION RAT ISLANDS, ALEUTIAN ISLANDS						
20	SSI	IP D	21 06 3.1	7.3	.1	2.91	31	304	-.0	
20	ASD	IP C	21 06 4.6	3.8	.1	2.67	57	228	-.1	
20	ASB	IP	21 06 5.2	9.9	.1	3.10	65	230	-.0	
		IS	21 06 16.6						-.0	
20	ASC	IP	21 06 5.2				63	241	.1	
20	AND	EP	21 06 5.9				72	255	.1	
20	RAT	IP D	21 06 9.6	5.7	.1	2.96	112	274	-.1	
20	21 13 20.97	51.77 N 179.83 W	DEPTH = 92.4 KM	FREE DEPTH SOLUTION DELAROF ISLANDS, ALEUTIAN ISLANDS						
20	SSI	EP	21 13 35.2	6.8	.1	2.90	42	289	.0	
20	ASD	EP	21 13 37.1	3.8	.1	2.70	71	234	-.1	
20	AMA	EP	21 13 37.4	4.8	.1	2.81	73	137	-.0	
20	ASC	EP	21 13 37.9				77	244	.1	
20	ASB	IP	21 13 37.9	7.9	.1	3.03	78	235	.1	
		ES	21 13 50.1						-.1	
20	AND	EP	21 13 38.6				87	255	-.0	
20	ANA	EP	21 13 40.6				105	262	.2	
20	RAT	IP	21 13 42.4	4.4	.1	2.88	127	272	-.2	
20	21 24 42.60	48.76 N 129.52 W	DEPTH = 33.0 KM	MB = 5.5	MS = 5.7	TELESEISMIC SOLUTION VANCOUVER ISLAND REGION				
20	ADK	EP	21 30 45.3	14.0	.8		3321	294		
20	ADK	EP	23 27 25.3							
		ES	23 27 32.8							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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21	0 53	58.95	50.92 N 179.22 E	DEPTH = 0.0 KM		FIXED DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
21	ASD	IP D	00 54 8.2	34.6	.1	3.35	53	9	-.3	
21	ASB	IP	00 54 8.3	15.5	.1	2.97	49	2	.5	
		ES	00 54 14.4						.1	
21	ASC	IP	00 54 9.9				60	356	.0	
21	AND	IP	00 54 11.8				74	345	-.5	
21	ANA	IP	00 54 14.9				88	334	.3	

21	4 52	26.56	50.36 N 178.87 E	DEPTH = 76.3 KM		FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
21	ASB	IP	04 52 45.9	21.7	.2	3.22	114	13	.0	
		ES	04 53 0.0						.0	
21	ASD	IP	04 52 46.4	2.4	.1	2.57	119	16	-.0	
21	ASC	IP	04 52 47.1				124	9	.1	
21	AND	EP	04 52 48.1				134	2	-.0	
21	ANA	E(P)	04 52 49.0				141	354	-.0	

21	5 57	11.90	11.82 S 166.53 E	DEPTH = 115.0 KM MB = 6.4		TELESEISMIC SOLUTION				
SANTA CRUZ ISLANDS										
21	ASB	EP	06 07 34.5				7103	9		QP TELESEISMIC
21	ASD	EP	06 07 34.9				7108	9		QP
21	AMA	EP	06 07 35.1				7124	10		QP
21	ASC	EP	06 07 35.5				7112	9		QP
21	ANA	EP	06 07 36.0				7122	8		QP
21	SSI	EP	06 07 36.2				7166	9		QP
21	RAT	EP	06 07 36.7				7136	8		QP
21	ADK	EP	06 07 41.5	423.0	1.3		7237	11		
		E	06 08 9.0							

21	6 19	59.50	11.90 S 166.61 E	DEPTH = 110.0 KM MB = 5.8		TELESEISMIC SOLUTION				
SANTA CRUZ ISLANDS										
21	ADK	EP	06 30 30.5				7244	11		
		E	06 30 58.4							
21	AMA	IP C	07 33 28.3	58.8	.1	3.51				
		ES	07 33 33.2							
21	SSI	EP	07 33 40.8	5.5	.1					
21	ASD	EP	07 33 42.6	3.9	.1	2.79				
21	ASB	EP	07 33 43.7	11.0	.1	3.26				
		ES	07 34 .2							
21	ASC	EP	07 33 44.8							

21	8 30	43.84	51.03 N 179.87 W	DEPTH = 18.2 KM		FREE DEPTH SOLUTION				
DELAROF ISLANDS, ALEUTIAN ISLANDS										
21	AMA	EP	08 30 54.2	9.9	.1	2.87	61	61	-.1	
		ES	08 31 2.1						.2	
21	ASD	EP	08 30 55.4	6.4	.1	2.73	68	307	-.0	
21	ASB	EP	08 30 55.9	4.5	.1	2.59	72	301	-.1	
21	ASC	EP	08 30 57.7				83	306	.1	
21	AND	EP	08 31 .1				101	306	-.3	
21	SSI	EP	08 31 .7	8.9	.1	3.03	103	339	-.0	
		ES	08 31 13.0						-.0	
21	ANA	EP	08 31 3.9				122	304	.4	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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21	ADK	EP	08 48 45.6							
		ES	08 48 54.1							

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 . 21 9 35 42.14 50.53 N 177.27 E DEPTH = 50.0 KM FIXED DEPTH SOLUTION
 . RAT ISLANDS, ALEUTIAN ISLANDS
 .

21	RAT	IP	09 36 5.5	9.4	.1	3.24	159	27	-.6	
21	ANA	EP	09 36 5.8				156	38	.1	
21	ASB	IP	09 36 6.6	23.9	.1	3.66	167	56	-.4	
		ES	09 36 23.6						-1.5	
21	AND	IP	09 36 6.7				165	45	-.0	
21	ASC	IP	09 36 7.1				169	51	-.1	
21	ASD	IP	09 36 7.5	9.1	.1	3.25	174	56	-.4	
21	SSI	EP	09 36 14.9	39.0	.1		222	46	1.1	
		IS	09 36 38.3						1.4	
21	AMA	P	09 36 19.9	3.7	.1		268	70	.4	

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 . 21 12 58 47.62 50.19 N 178.95 E DEPTH = 50.0 KM FIXED DEPTH SOLUTION
 . RAT ISLANDS, ALEUTIAN ISLANDS
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21	ASB	IP	12 59 8.0	11.6	.1	3.26	132	9	-.2	
		IS	12 59 23.3						.0	
21	ASD	IP	12 59 8.4	4.1	.1	2.82	137	12	-.4	
21	ASC	EP	12 59 9.4				143	6	-.1	
21	AND	EP	12 59 10.7				153	0	-.1	
21	RAT	E(P)	12 59 14.8	2.6	.1	2.73	185	347	.1	
21	SSI	EP	12 59 16.7	17.8	.3	3.11	195	13	.7	TAMP ESTIMATED

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 . 21 14 37 33.80 52.64 N 173.53 W DEPTH = 207.0 KM MB = 3.4 TELESEISMIC SOLUTION
 . ANDREANOF ISLANDS, ALEUTIAN IS.
 .

21	ADK	IP	14 37 14.1				231	250		
		ES	14 37 22.6							
21	AMA	IP C	14 38 27.8	101.5	.2		412	251		
21	SSI	IP	14 38 41.6	135.0	.3		477	263		
21	ASD	EPN	14 38 41.7				509	257		
		EPG)	14 38 47.3	73.5	.4					
21	ASB	EP	14 38 43.0	101.0	.3		516	257		
		E(S)	14 39 26.3							
21	ASC	EP	14 38 43.7				518	258		
21	AND	EP	14 38 45.9				529	260		
21	ANA	EP	14 38 48.5				547	261		
21	RAT	EP	14 38 51.4	41.3	.2		564	264		

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21	RAT	E(P)	15 02 25.8	5.8	.1					
21	ANA	IP	15 02 31.8							
21	AND	EP	15 02 32.7							
21	ASB	EP	15 02 35.1	2.0	.1	2.54				
		ES	15 02 52.4							
21	ASD	EP	15 02 35.3	1.1	.1	2.29				

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 . 21 16 17 25.99 53.52 N 175.14 E DEPTH = 150.0 KM FIXED DEPTH SOLUTION
 . RAT ISLANDS, ALEUTIAN ISLANDS
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21	RAT	EP	16 18 7.5	18.9	.1		288	130	-1.2	
		ES	16 18 38.9						-.9	
21	ANA	EP	16 18 12.2				318	130	.1	
21	AND	EP	16 18 14.1				338	129	-.3	
21	ASC	EP	16 18 16.8				356	128	.3	
21	ASB	EP	16 18 17.1	2.3	.1		368	129	-.8	
21	ASD	EP	16 18 17.2	2.5	.1		371	128	-1.0	

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NOV 1971	STA	PHASE	TIME (GHT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
21	16 46	52.89	51.79 N 179.78 E	DEPTH = 184.3 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
21	ASD	EP	16 47 18.1	7.3	.1	3.18	53	214	-.1	
		ES	16 47 36.8						.2	
21	AND	EP	16 47 18.2				62	247	-.3	
21	ASC	EP	16 47 18.3				56	230	.1	
21	ASB	EP	16 47 18.5	5.7	.1	3.08	60	218	.1	
		ES	16 47 36.9						-.2	
21	ANA	EP	16 47 19.5				79	257	.2	
21	AMA	E(P)	16 47 20.2	16.1	.2	3.25	95	125	.0	
21	17 45	14.86	51.71 N 179.71 E	DEPTH = 89.6 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
21	SSI	IPGC	17 45 27.8	38.6	.1	3.61	22	338	-.0	
		IS	17 45 37.3						.0	
21	ASD	IPGC	17 45 28.8	23.8	.1	3.43	44	215	-.1	
21	ASC	IPG	17 45 29.1				47	234	.1	
21	ASB	IPGD	17 45 29.3	28.1	.1	3.52	50	219	.0	
		ES	17 45 39.7						-.1	
21	AND	IPG	17 45 29.6				55	253	.0	
21	ANA	IPG	17 45 31.2				73	263	.2	
21	RAT	IP	17 45 32.9	6.2	.1	2.96	95	276	-.2	
21	AMA	IP C	17 45 33.0	16.4	.1	3.38	95	119	-.0	
21	17 51	44.66	50.99 N 178.45 E	DEPTH = 34.2 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
21	ACE	IPGD	17 51 56.7				68	48	-.1	QD1R
21	ASB	IPGC	17 51 56.9	53.8	.1	3.69	69	53	-.1	
		IS	17 52 6.2						.2	
21	ACD	IPG	17 51 56.9				68	44	.0	
21	ACB	IPGC	17 51 57.0				69	40	.0	
21	ACF	EPG	17 51 57.3				70	32	.1	
21	AND	IPG	17 51 57.4				72	29	-.1	
21	ACA	IPGC	17 51 57.4				72	40	.0	
21	ASC	IPG	17 51 57.5				72	43	.0	
21	ANA	IPG	17 51 57.7				72	12	.3	
21	ASD	IPGC	17 51 57.8	54.3	.1	3.72	76	54	-.2	
21	RAT	IP D	17 51 59.8	56.1	.1	3.79	90	355	-.2	
		ES	17 52 11.2						-.0	
21	SSI	IPG	17 52 5.6	213.9	.2	4.20	128	38	.3	
		ES	17 52 20.1						-.3	
21	18 0	24.93	51.15 N 178.52 E	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
21	AND	IPG	18 00 34.6				55	33	-.2	
21	ACB	EPG	18 00 34.6				53	48	.1	
21	ACE	EPG	18 00 34.6				54	58	.0	
21	ACF	EPG	18 00 34.6				54	38	-.0	
21	ACD	EPG	18 00 34.7				53	54	.2	
21	ASB	EPG	18 00 34.9	7.7	.1	2.75	56	65	-.1	
		IS	18 00 42.2						-.0	
21	ACA	EPG	18 00 35.1				56	48	.2	
21	ASC	EPG	18 00 35.2				57	52	.1	
21	ASD	EPG	18 00 35.8	2.2	.1	2.26	63	64	-.2	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	REMARKS
21	18 14 14.74		50.96 N 178.54 E				50.0 KM		FIXED DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS						
21	ASB	EPG	18 14 27.3	2.3	.1	2.35	67	48	-.1
		ES	18 14 36.6						-.0
21	ACB	E(P)	18 14 27.6				68	35	.1
21	ACF	E(P)	18 14 27.9				70	27	.1
21	ASC	EPG	18 14 28.0				71	38	.1
21	AND	EPG	18 14 28.0				73	23	-.1
21	ACA	E(P)	18 14 28.0				71	35	.1
21	ASD	EPG	18 14 28.2	2.5	.1	2.42	74	49	-.0
21	ANA	EPG	18 14 28.3				74	7	-.0
21	18 49 40.13		51.67 N 179.71 W				29.4 KM		FREE DEPTH SOLUTION
			DELAROF ISLANDS, ALEUTIAN ISLANDS						
21	SSI	IPG	18 49 49.9	28.4	.1	3.32	54	297	-.2
		ES	18 49 57.5						.2
21	AMA	IPG	18 49 51.0	6.5	.1	2.71	60	135	.1
21	ASD	IPG	18 49 52.6	11.5	.1	3.02	73	245	-.1
21	ASB	IPG	18 49 53.8	12.8	.1	3.10	80	245	-.0
		ES	18 50 3.9						.1
21	ASC	IPG	18 49 54.0				81	254	.0
21	AND	IPG	18 49 55.5				93	263	-.2
21	ANA	IPG	18 49 58.7				112	268	.1
21	RAT	EP	18 50 2.3	20.9	.1	3.51	136	277	.2
21	19 49 19.95		51.03 N 179.54 W				33.7 KM		FREE DEPTH SOLUTION
			DELAROF ISLANDS, ALEUTIAN ISLANDS						
21	AMA	IPGC	19 49 29.0				42	46	.4
		IS	19 49 34.4						-.5
21	ASD	IP	19 49 34.9	22.0	.1	3.38	88	298	-.1
21	ASB	EP	19 49 35.6	80.0	.3	3.48	93	294	-.1
		E(S)	19 49 47.5						.4
21	ASC	EP	19 49 37.0				103	299	-.1
21	SSI	IP D	19 49 38.9	67.4	.1	3.96	114	328	.1
21	AND	EP	19 49 39.7				121	300	-.1
21	ANA	EP	19 49 42.4				142	299	-.0
21	RAT	IP	19 49 46.1	60.7	.3	3.59	171	301	.0
21	ADK	EP	19 49 53.0				220	63	1.0
		ES	19 50 21.2						5.8
21	21 10 56.00		51.39 N 176.36 W				54.0 KM	MB = 4.3	TELESEISMIC SOLUTION
			ANDREANOF ISLANDS, ALEUTIANS ISLANDS						
21	ADK	IP	21 11 9.7				60	338	1.6
		ES	21 11 18.1						1.2
21	AMA	IP C	21 11 23.3	210.5	.3	4.18	192	268	-.7
		E(S)	21 11 46.2						1.8
21	SSI	IP D	21 11 33.0	196.2	.4		286	283	-2.5
21	ASD	IPN	21 11 37.1				299	272	-.0
		IPG	21 11 42.9	76.7	.4				
21	ASB	EPN	21 11 38.5				305	271	.5
		I	21 11 45.5	147.8	.4				
		E	21 12 21.8						
21	ASC	EPN	21 11 39.3				311	273	.7
		I	21 11 45.5						
21	AND	EP	21 11 41.6				326	275	1.1
21	ANA	IP	21 11 44.0				346	276	1.0
21	RAT	EP	21 11 46.8	93.0	.3		370	279	.8
21	NIK	EP	21 12 7.8				542	68	.7

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
22	0 14	39.28	51.79 N 179.54 W	DEPTH = 100.0 KM			FIXED DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
22	ASD	EP	00 14 57.7	2.9	.1	2.64	90	240	-.1	
		E(S)	00 15 11.3						-.0	
22	ASB	EP	00 14 58.5	3.5	.1	2.74	97	241	.0	
22	ASC	EP	00 14 58.6				97	248	.1	
22	AND	EP	00 14 59.4				107	257	-.1	
22	0 46	11.10	52.27 N 174.32 E	DEPTH = 43.0 KM MB = 5.6 MS = 5.5			TELESEISMIC SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
22	SHY	EP	00 46 22.5				53	344	.5	
22	RAT	IP D	00 46 50.9				280	99	1.0	WHITE OUT
22	ANA	IP D	00 46 54.1				307	102	.9	
22	AND	EP	00 46 55.9				328	102	.1	
22	ASC	IP	00 46 58.4				345	103	.5	
22	ASB	IP	00 46 59.7				354	105	.7	OVERLOAD
22	ASD	IP	00 47 0.0				359	104	.3	OVERLOAD
22	SSI	IP D	00 47 1.6				363	95	1.5	WHITE OUT
22	AMA	EP	00 47 14.2				466	101	1.4	WHITE OUT
22	ADK	EP	00 47 32.5				617	90	1.0	FELT II SHEMYA
		ES	00 48 36.0						5.8	
22	NIK	EP	00 48 39.5				1138	79	3.7	
22	GMA	EP	00 50 21.7				2021	34	-3.1	
22	RAT	EP	01 05 27.7	109.1	.4					
		ES	01 05 58.0							
22	ANA	E(P)	01 05 32.1							
		E(L)	01 06 8.8							
22	AND	E(P)	01 05 34.3							
22	ASC	E(P)	01 05 36.8							
22	ASB	E(P)	01 05 38.3	17.7	.3					
22	ASD	E(P)	01 05 38.6	23.4	.4					
22	4 5	37.24	51.05 N 177.63 E	DEPTH = 0.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
22	RAT	IP C	04 05 54.0	417.7	.3	4.19	97	30	-.3	
22	ANA	IP C	04 05 54.7				96	48	.5	
22	AND	EP	04 05 56.1				108	58	.0	
22	ASC	EP	04 05 57.2				116	66	-.1	
22	ASB	EP	04 05 57.3	105.3	.3	3.67	118	72	-.2	
		ES	04 06 12.3						.0	
22	ASD	EP	04 05 58.2	25.8	.2	3.26	125	72	-.4	
22	SSI	IP C	04 06 4.7	115.3	.1	4.32	165	55	.0	POOR TAMP
		E(S)	04 06 24.7						.1	
22	ADK	EP	04 06 36.1				405	75	.4	
		ES	04 07 18.4						.0	
22	5 49	8.44	52.38 N 177.95 E	DEPTH = 114.2 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
22	RAT	EP	05 49 26.7	3.1	.1	2.67	69	158	.0	
		ES	05 49 40.0						.0	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
22	5 51	40.31	51.00 N 178.21 E	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
22	ANA	E(P)	05 51 53.7				77	24	.3	
		ES	05 52 2.9						-.0	
22	AND	E(P)	05 51 53.8				82	39	-.3	
22	ASC	E(P)	05 51 54.6				84	52	.1	
22	RAT	E(P)	05 51 55.2	2.7	.1	2.46	90	5	-.1	
.....										
22	RAT	EP	06 56 4.0	6.3	.1	3.11				
		ES	06 56 24.6							
22	ANA	EP	06 56 5.6							
22	AND	EP	06 56 7.4							
22	SSI	EP	06 56 15.3	2.0	.1					POOR TAMP
22	AMA	E(P)	07 13 39.7	6.5	.1					QP QTAMP
22	ASD	E(P)	07 13 50.1	2.4	.1	2.46				
22	ASB	E(P)	07 13 51.1	3.3	.1	2.63				
		ES	07 14 3.5							
22	ASC	E(P)	07 13 52.1							
.....										
22	8 19	56.30	.13 N 123.97 E	DEPTH = 111.0 KM MB = 5.6			TELESEISMIC SOLUTION			
NORTHERN CELEBES										
22	RAT	EP	08 30 50.6	69.9	.4		7637	33		
22	ANA	EP	08 30 51.9				7648	33		
22	ASC	EP	08 30 52.6				7670	33		
22	ASD	EP	08 30 52.8	38.5	.4		7677	34		
22	ASB	EP	08 30 53.0	19.8	.4		7670	34		
22	AND	EP	08 30 53.2				7662	33		
22	AMA	EP	08 30 58.4	19.5	.3		7768	34		
22	ADK	EP	08 31 7.2				7948	34		
.....										
22	8 50	34.09	52.23 N 178.24 E	DEPTH = 164.7 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
22	RAT	EP	08 50 56.8				48	173	-.1	
22	ANA	IP D	08 50 58.1				73	157	.1	
22	AND	EP	08 50 58.8				89	146	-.1	
22	ASC	EP	08 51 .4				106	143	.3	
22	ASB	E(P)	08 51 .9	5.5	.1	3.08	119	144	-.1	
		ES	08 51 20.6						-.0	
22	ASD	E(P)	08 51 .9	4.8	.1	3.02	120	141	-.2	
.....										
22	ADK	EP	13 36 25.9							
		ES	13 36 40.5							
22	AMA	IP	13 36 41.1	39.6	.2					QS
		E(S)	13 37 6.9							
22	ASD	EP	13 36 52.0	3.5	.1					QP
22	ASB	EP	13 36 52.9	7.5	.1					QP
22	ASC	EP	13 36 53.5							QP
22	AND	EP	13 36 54.5							QP
22	ADK	EP	13 38 15.6							
		ES	13 38 23.2							
22	ADK	EP	14 14 24.1							
		ES	14 14 30.6							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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22	14 33	28.06	51.32 N 178.70 E	DEPTH = 61.5 KM		FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
22	ACB	EPG	14 33 38.3				32	60	-.0	
22	AND	EPG	14 33 38.3				32	33	-.0	
22	ACF	EPG	14 33 38.4				31	42	.2	
		E(S)	14 33 45.9						.2	
22	ASC	E(P)	14 33 38.4				36	64	-.2	
22	ANA	EPG	14 33 38.6				34	356	.1	
		E(S)	14 33 45.8						-.3	

22	ADK	EP	15 33 .2							
		ES	15 33 7.8							

22	16 32	47.31	50.87 N 179.79 W	DEPTH = 28.3 KM		FREE DEPTH SOLUTION				
DELAROF ISLANDS, ALEUTIAN ISLANDS										
22	AMA	IP D	16 32 59.5	59.2	.1	3.71	67	45	.5	
		ES	16 33 7.3						-.3	
22	ASD	EP	16 33 1.4	5.5	.1	2.75	84	314	-.2	
22	ASB	EP	16 33 1.9	8.8	.2	2.67	87	310	-.1	QS
		E(S)	16 33 13.5						.8	
22	ASC	EP	16 33 3.7				99	313	-.0	
22	AND	EP	16 33 6.3				117	312	-.2	
22	SSI	IP D	16 33 6.9				122	339	-.3	WHITE OUT
22	ANA	E(P)	16 33 9.4				137	309	-.1	
22	RAT	E(P)	16 33 13.5	47.2	.1	3.94	167	309	.1	QP
22	ADK	EP	16 33 23.6				244	61	.8	
		ES	16 33 49.6						.8	

22	17 33	55.46	51.13 N 179.21 E	DEPTH = 28.7 KM		FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
22	ASB	IPGD	17 34 1.9	286.9	.1	4.14	26	6	.1	
		IS	17 34 6.3						-.1	
22	ASD	IPGD	17 34 2.2	76.6	.1	3.60	31	17	-.1	POOR TAMP
22	ACE	IPGD	17 34 2.3				31	355	-.0	
22	ACD	IPGD	17 34 2.8				34	351	.1	
22	ASC	IPGD	17 34 3.3				37	355	.1	
22	ACB	IPGD	17 34 3.3				38	347	.0	
22	ACA	IPG	17 34 3.6				40	351	.1	
22	ACF	IPGC	17 34 4.4				47	341	.0	
22	AND	IPGD	17 34 4.9				52	340	-.2	
22	ANA	EPG	17 34 7.2				67	326	-.1	
22	SSI	IPGD	17 34 10.5	46.5	.1	3.70	89	17	.0	
22	AMA	E(P)	17 34 14.8	4.1	.1	2.75	119	81	-.0	QP

22	AMA	EP	17 54 40.3							
		I	17 54 41.5	22.5	.1	3.34				
		E(S)	17 54 49.5							
22	ADK	EP	17 54 47.3							
		ES	17 55 .9							
22	ASB	E(P)	17 54 56.6	3.4	.1					
22	ASC	E(P)	17 54 57.1							

22	18 13	45.87	51.56 N 178.81 E	DEPTH = 19.5 KM		FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
22	AND	IPGD	18 13 49.5				10	91	-.1	
		ES	18 13 52.5						.2	
22	ACF	IPGC	18 13 49.6				14	108	-.3	
22	ANA	IPGC	18 13 49.8				12	305	.0	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
. 22	ACA	IPGD	18 13 51.1				24	113	.1	
. 22	ACB	IPGD	18 13 51.1				23	120	.2	
. 22	ASC	IPGC	18 13 51.7				27	114	.2	
. 22	ACD	EPG	18 13 51.8				27	123	.2	
. 22	ASB	EPG	18 13 52.9	4.7	.1	2.39	38	126	-.1	
. 22		IS	18 13 58.1						-.2	
. 22	ASD	EPG	18 13 53.5	6.0	.1	2.53	42	117	-.1	
.....										
. 22	18 55	4.89	51.42 N 179.70 E	DEPTH = 35.7 KM			FREE DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
. 22	ASD	IPG	18 55 11.9	3.9	.1	2.32	25	264	-.0	
. 22	ASB	EPG	18 55 12.7	4.7	.1	2.44	32	259	.1	
. 22		IS	18 55 18.2						-.0	
. 22	ACE	EPG	18 55 13.1				36	267	-.0	
. 22	ASC	EPG	18 55 13.2				37	278	-.0	
. 22	ACD	EPG	18 55 13.4				39	272	.0	
. 22	ACA	IPG	18 55 13.5				41	280	-.1	
. 22	ACB	IPG	18 55 13.7				42	277	-.1	
. 22	SSI	E(P)	18 55 15.2	6.1	.1	2.67	54	352	-.0	POOR TAMP
. 22		ES	18 55 22.8						.0	
. 22	AND	EPG	18 55 15.4				54	288	.1	
.....										
. 22	19 32	48.72	51.43 N 178.78 E	DEPTH = 43.6 KM			FREE DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
. 22	AND	IPGD	19 32 56.3				19	39	.0	
. 22	ACF	EPG	19 32 56.4				19	54	.2	
. 22	ACB	IPGD	19 32 56.6				22	80	.1	
. 22	ACD	IPG	19 32 56.7				25	90	.0	
. 22	ANA	IPG	19 32 56.8				24	340	.2	
. 22	ACA	IPGD	19 32 56.8				24	76	.2	
. 22	ACE	EPG	19 32 56.8				28	96	-.1	
. 22	ASC	IPGC	19 32 57.1				27	82	.2	
. 22	ASB	IPGC	19 32 57.3	208.7	.2	3.84	33	103	-.1	
. 22		ES	19 33 3.1						-.7	
. 22	ASD	IPGC	19 32 57.9				39	96	-.1	
. 22	RAT	EP	19 32 59.0	43.2	.1	3.54	52	323	-.4	
. 22	SSI	IP D	19 33 2.4				76	47	.0	WHITE OUT
. 22		E(S)	19 33 12.2						-.1	
. 22	AMA	EP	19 33 11.4	14.5	.1	3.39	148	95	.2	
.....										
22	ADK	EP	20 59 17.3							
		ES	20 59 31.8							
22	ADK	EP	21 54 31.3							
		ES	21 54 40.8							
.....										
. 23	2 22	23.00	52.93 N 179.89 W	DEPTH = 100.0 KM			FIXED DEPTH SOLUTION			
			DELAROF ISLANDS, ALEUTIAN ISLANDS							
. 23	AND	EP	02 22 50.2				171	208	.2	
. 23	ANA	EP	02 22 50.3				175	215	-.1	
. 23	ASD	EP	02 22 50.8	31.2	.1	3.84	179	197	-.0	
. 23	ASB	EP	02 22 51.4	18.7	.1	3.62	184	199	-.0	
. 23		IS	02 23 12.2						-.0	
.....										
23	ADK	EP	08 45 12.5							
		ES	08 45 21.0							

51.85 N 176.19 W DEPTH = 68.0 KM MB = 4.8										TELESEISMIC SOLUTION	
ANDREANOF ISLANDS, ALEUTIANS ISLANDS											
23	ADK	IP	10 02 10.5				34	276	-1.2	FELT IV. 5.5ML	
		ES	10 02 18.2						-1.6		
23	AMA	EP	10 02 30.5				211	254	-1.7		
23	SSI	EP	10 02 42.5				290	273	1.7		
23	ASD	IP	10 02 44.3	173.3	.2		313	262	.7		
23	ASB	IP	10 02 45.1				320	262	.6		
		E(S)	10 03 16.8						.2		
23	ASC	IP	10 02 45.9				324	264	1.0		
23	AND	IP	10 02 47.8				336	266	1.3		
23	ANA	IP	10 02 50.1				356	268	1.2		
23	RAT	EP	10 02 53.3				377	271	1.8		
23	NIK	EP	10 03 10.0				514	73	1.7		
23	SHY	EP	10 03 27.7				668	282	.4		
23	GMA	EP	10 05 42.7				1739	24	3.2		
.....											
23	ADK	IP	10 39 23.8								
		ES	10 39 32.7								
23	AMA	EP	10 39 39.0	82.2	.1						
23	ASD	EP	10 39 55.9								
23	ASB	EP	10 39 56.5								
		ES	10 40 30.1								
23	ASC	EP	10 39 56.9								
23	AND	EP	10 39 59.4								
23	ANA	EP	10 40 .4								
.....											
23 14 38 9.81 51.04 N 179.22 E DEPTH = 25.0 KM										FIXED DEPTH SOLUTION	
RAT ISLANDS, ALEUTIAN ISLANDS											
23	ASB	IP D	14 38 17.2	44.4	.1	3.38	36	3	.1		
		IS	14 38 22.2						-.1		
23	ASD	IP D	14 38 17.4	52.8	.1	3.49	40	12	-.2		
23	ACE	IP	14 38 17.9				41	356	.2		
23	ACD	IP	14 38 18.5				44	353	.4		
23	ASC	IP D	14 38 18.8				48	356	.2		
23	ACB	IP	14 38 18.8				48	350	.1		
23	ACA	IP	14 38 19.2				50	352	.2		
23	ACF	IP	14 38 20.2				57	344	.3		
23	AND	IP C	14 38 20.7				61	343	.1		
23	ANA	IP	14 38 21.9				76	330	-.9		
23	SSI	IP D	14 38 25.6	66.5	.1	3.89	99	15	-.5		
.....											
23 17 11 4.59 51.55 N 179.15 E DEPTH = 26.2 KM										FREE DEPTH SOLUTION	
RAT ISLANDS, ALEUTIAN ISLANDS											
23	ACB	IP	17 11 9.1				10	205	-.1		
23	ACA	IP	17 11 9.2				8	199	.1		
23	ACD	IP	17 11 9.2				13	186	-.2		
23	ACE	IP	17 11 9.2				16	176	-.5		
23	AND	EP	17 11 9.4				14	277	-.1		
23	ASC	IP	17 11 9.5				9	176	.3		

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
23	21 56 49.90		51.33 N 178.53 E	DEPTH = 39.0 KM			FREE DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
23	ANA	IP	21 56 58.6				34	16	.4	
23	AND	IP	21 56 58.9				39	49	.2	
23	RAT	IP	21 57 .1	3.6	.1	2.45	54	345	-.4	
23	ASB	EP	21 57 .3				50	86	.2	
		ES	21 57 7.1						-.4	
23	ASD	IP	21 57 .7	10.8	.1	2.94	57	83	-.2	
23	SSI	IP	21 57 6.3	8.8	.1	3.02	96	49	.0	
24	ACA	IP	03 02 23.1							
24	AND	IP	03 02 23.2							
		ES	03 02 29.5							
24	ACF	EP	03 02 23.2							
24	ASC	IP	03 02 23.8							
24	6 41 53.81		51.61 N 179.69 E	DEPTH = 74.6 KM			FREE DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
24	ASD	IP	06 42 5.5	37.8	.1	3.56	34	225	-.1	
24	SSI	IP C	06 42 5.5	68.7	.1	3.81	32	348	.0	
24	ASB	IP	06 42 6.0	52.9	.1	3.72	41	228	-.1	
		IS	06 42 14.8						-.2	
24	ACA	EP	06 42 6.1				42	250	.0	
24	ASC	IP	06 42 6.2				40	246	.2	
24	ACB	EP	06 42 6.3				44	249	.0	
24	ACD	EP	06 42 6.3				43	242	.1	
24	AND	IP	06 42 6.8				51	264	.0	
24	ANA	IP	06 42 8.7				71	272	.2	
24	AMA	IP C	06 42 10.5	14.8	.1	3.29	91	113	-.0	
24	RAT	IP C	06 42 10.8				96	283	-.3	
24	SSI	IP D	11 04 51.4	31.0	.1					
24	ANA	EP	11 04 51.7							
24	AND	EP	11 04 53.9							
24	ACF	IP	11 04 54.5							
24	ACB	IP	11 04 55.6							
24	ACA	IP	11 04 55.9							
24	ACD	IP	11 04 56.1							
24	ASC	IP D	11 04 56.3							
		ES	11 05 3.7							
24	ASD	EP	11 04 57.9	1.7	.1	2.19				
24	12 19 2.27		52.02 N 174.94 E	DEPTH = 125.0 KM			FIXED DEPTH SOLUTION			
			RAT ISLANDS, ALEUTIAN ISLANDS							
24	RAT	IP D	12 19 35.9				234	95	-1.7	
24	ANA	EP	12 19 40.1				260	98	-.4	
24	AND	IP	12 19 42.3				281	99	-.7	
24	ASC	IP	12 19 44.8				298	100	-.1	
24	ASB	EP	12 19 46.8	158.7	.3		306	102	.9	
		ES	12 20 17.5						-.3	
24	ASD	IP	12 19 46.9	215.6	.4		312	101	.3	
24	SSI	E(P)	12 19 47.0				319	91	-.4	
24	AMA	EP	12 19 59.9				419	99	.5	
24	ADK	EP	12 20 20.3				574	88	2.1	
		ES	12 21 13.7						-.0	
24	ADK	EP	13 54 9.3							
		ES	13 54 17.7							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
24	19 35 29.10		52.90 N 159.19 E				DEPTH = 106.0 KM		MB = 6.3	TELESEISMIC SOLUTION
			OFF EAST COAST OF KAMCHATKA							
24	SMY	EP	19 37 36.7				1005	85		
24	RAT	EP	19 38 14.9				1308	88		
24	ANA	EP	19 38 20.5				1334	88		
24	AND	EP	19 38 21.1				1356	88		
24	ASC	EP	19 38 21.9				1373	89		
24	ASB	EP	19 38 22.6				1381	89		
24	ASD	EP	19 38 22.9				1387	89		VERY LARGE AMP
24	SSI	EP	19 38 23.5				1390	86		
24	AMA	EP	19 38 40.1				1494	88		
24	ADK	EP D	19 38 51.2	533.3	1.6		1640	84		
		ES	19 41 41.0							
24	NIK	EP	19 39 43.0				2133	77		
24	GMA	EP	19 40 30.5				2599	42		
24	22 36 34.90		51.66 N 177.11 W				DEPTH = 56.0 KM			TELESEISMIC SOLUTION
			ANDREANOF ISLANDS, ALEUTIANS ISLANDS							
24	ADK	IP D	22 36 45.1				39	49	-0.1	FELT I. 3.8ML
		ES	22 36 52.0						-0.6	
24	AMA	EP	22 36 57.2	58.4	.1	4.00	144	254	.1	
24	SSI	EP	22 37 7.6				229	278	.2	
24	ASD	IP	22 37 9.9	7.6	.1		247	265	.2	
24	ASB	IP	22 37 10.8	12.8	.1		254	264	.2	
		ES	22 37 37.3						.7	
24	ASC	IP	22 37 11.7				258	267	.6	
24	AND	EP	22 37 13.9				272	269	1.1	
24	ANA	EP	22 37 15.9				292	271	.7	
24	RAT	EP	22 37 18.6				314	275	.6	
25	AMA	IP D	02 52 3.2							
		IS	02 52 9.4							
25	ASD	IP	02 52 18.0	10.9	.1	3.26				
25	ADK	EP	02 52 18.2							
		ES	02 52 34.6							
25	SSI	IP	02 52 18.8							
25	ASB	IP	02 52 19.3	11.8	.1	3.31				
		IS	02 52 36.6							
25	ASC	IP	02 52 20.4							
25	AND	EP	02 52 23.5							
25	ANA	EP	02 52 25.7							
25	RAT	EP	02 52 28.6							
25	6 16 46.05		51.68 N 176.42 E				DEPTH = 100.0 KM			FIXED DEPTH SOLUTION
			RAT ISLANDS, ALEUTIAN ISLANDS							
25	RAT	IP D	06 17 7.7	132.2	.2	4.08	132	84	-1.1	
25	ANA	EP	06 17 10.7				155	91	-0.5	
25	AND	EP	06 17 13.6				176	93	.1	
25	ASC	EP	06 17 15.5				191	96	.2	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
25	6 23 18.61		51.57 N 178.79 E	DEPTH = 21.3 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
25	AND	IP D	06 23 22.5				11	92	-.1	
25	ANA	IP C	06 23 22.7				11	306	.0	
25	ACB	IP	06 23 24.0				24	119	.1	
25	ACA	IP	06 23 24.1				24	113	.1	
25	ACD	IP	06 23 24.6				28	123	.1	
25	ASC	IP	06 23 24.7				28	114	.2	
25	ACE	IP	06 23 25.0				32	125	-.0	
25	ASB	IP	06 23 25.9	11.4	.1	2.79	39	126	-.1	
		IS	06 23 31.2						-.1	
25	RAT	IP C	06 23 26.3	14.9	.1	2.93	41	309	-.0	
25	ASD	EP	06 23 26.4	21.3	.1	3.09	43	117	-.1	
25	SSI	EP	06 23 29.9				66	56	-.0	
.....										
25	ADK	EP	08 16 6.2							
		ES	08 16 15.8							
25	SSI	IP	08 42 9.9							
.....										
25	8 42 32.99		51.32 N 178.68 E	DEPTH = 50.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
25	ACD	EP	08 42 42.2				34	70	-.1	
25	ANA	IP D	08 42 42.3				34	358	.0	
25	ACB	IP	08 42 42.3				33	62	.1	
25	ACF	IP	08 42 42.3				31	44	.2	
25	AND	IP D	08 42 42.4				33	36	.2	
25	ACA	IP	08 42 42.4				35	60	-.0	
25	ACE	EP	08 42 42.4				36	76	-.0	
25	ASB	IP	08 42 42.7	28.3	.1	3.34	40	84	-.1	
		IS	08 42 49.4						-.6	
25	ASD	IP	08 42 43.7				47	81	.2	
25	RAT	IP	08 42 44.4				58	336	-.3	
.....										
25	10 12 47.50		51.02 N 177.93 W	DEPTH = 22.0 KM MB = 4.2			TELESEISMIC SOLUTION			
ANDREANOF ISLANDS, ALEUTIANS ISLANDS										
25	AMA	IP D	10 13 2.4	134.1	.1	4.15	88	291	.3	
		I	10 13 4.7							
25	ADK	EP	10 13 8.8				130	41	.4	
		ES	10 13 25.0						1.4	
25	ASD	EP	10 13 16.7	37.2	.1	3.90	195	283	-.9	
		ES	10 13 39.2						-.3	
25	SSI	EP	10 13 17.2				198	300	-.8	
25	SSI	IP	10 13 17.3				198	300	-.7	
25	ASB	EP	10 13 18.2	45.8	.1		201	282	-.1	
25	AND	EP	10 13 21.7				226	287	.4	
25	ANA	EP	10 13 23.0				247	287	-1.0	
25	RAT	IP	10 13 27.8				274	290	.5	
25	RAT	EP	10 13 27.8				274	290	.5	
.....										
25	10 59 6.40		56.40 N 160.68 W	DEPTH = 136.0 KM MB = 5.3			TELESEISMIC SOLUTION			
ALASKA PENINSULA										
25	NIK	EP	11 00 31.3				650	237		
25	GMA	EP	11 01 19.5				1008	359		
25	ADK	EP	11 01 34.0				1158	251		
25	AMA	EP	11 01 55.2	93.5	.2		1336	253		
25	ASD	EP	11 02 5.5	12.7	.1		1422	255		
25	ASB	EP	11 02 5.6	21.8	.1		1429	255		NO S.

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
25	ASC	IP	11 02 6.3				1428	256		
25	AND	IP	11 02 7.5				1435	257		
25	ANA	EP	11 02 9.9				1449	257		
.....										
25	16 41 10.28	51.24 N 178.51 E DEPTH = 37.3 KM						FREE DEPTH SOLUTION		
		RAT ISLANDS, ALEUTIAN ISLANDS								
25	ANA	IP	16 41 19.6				44	14	.0	
25	AND	IP	16 41 19.9				47	41	-.0	
25	ASB	IP	16 41 20.7	2.3	.1	2.25	53	75	.0	
		ES	16 41 28.3						.0	
25	SSI	IP	16 41 27.8	5.4	.1	2.83	104	46	.0	
.....										
25	17 10 44.40	51.72 N 178.69 E DEPTH = 89.7 KM						FREE DEPTH SOLUTION		
		RAT ISLANDS, ALEUTIAN ISLANDS								
25	ANA	IP D	17 10 57.2				10	189	.1	
25	RAT	IP C	17 10 57.4				26	290	-.1	
25	AND	IP D	17 10 57.6				25	133	.1	
25	ACF	IP	17 10 57.6				30	135	-.1	
25	ACA	IP	17 10 58.3				40	131	.1	
25	ACB	IP	17 10 58.3				40	135	.1	
25	ASC	IP	17 10 58.5				44	131	.1	
25	ACD	IP	17 10 58.5				45	136	.0	
25	ACE	IP	17 10 58.7				49	136	-.0	
25	ASB	IP D	17 10 59.1	235.9	.1	4.45	56	135	-.1	
		IS	17 11 9.9						-.1	
25	ASD	IP D	17 10 59.3				58	128	-.1	
25	SSI	IP	17 10 59.9				65	72	-.0	
25	AMA	IP	17 11 9.6				160	107	-.0	
25	ADK	EP	17 11 28.9				319	85	.3	
		ES	17 12 2.9						2.1	
.....										
25	20 36 19.21	51.14 N 179.26 E DEPTH = 36.8 KM						FREE DEPTH SOLUTION		
		RAT ISLANDS, ALEUTIAN ISLANDS								
25	ASB	IP C	20 36 26.4	48.3	.1	3.42	25	357	.0	
		IS	20 36 31.6						-.0	
25	ASD	IP C	20 36 26.7	37.2	.1	3.33	29	11	-.1	
25	ACE	IP	20 36 26.8				30	348	-.1	
25	ACD	IP	20 36 27.3				34	345	.0	
25	ASC	IP	20 36 27.7				37	349	.1	
25	ACB	IP	20 36 27.8				38	342	.0	
25	ACA	EP	20 36 28.0				40	345	.1	
25	ACF	IP	20 36 28.9				47	337	.1	
25	AND	EP	20 36 29.3				52	336	-.2	
25	ANA	IP	20 36 31.7				69	323	.0	
.....										
25	ADK	EP	22 20 44.6							
		ES	22 20 54.6							
25	ANA	EP	23 51 8.0							
25	AND	EP	23 51 9.8							
25	ASB	IP	23 51 11.1	7.6	.1					
		ES	23 51 36.9							
25	ASD	IP	23 51 11.9	6.6	.2					
25	RAT	IP	23 53 6.8	14.8	.1					
25	SSI	IP	23 53 17.9	5.1	.1					
26	ADK	EP	01 35 13.7							
		ES	01 36 17.2							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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26	ADK	EP	02 51 17.5	31.2	.6					
		ES	02 52 41.9							

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 . 26 3 35 43.65 51.08 N 179.16 E DEPTH = 33.5 KM FREE DEPTH SOLUTION
 . RAT ISLANDS, ALEUTIAN ISLANDS
 .

. 26	ASB	EP	03 35 50.9				31	11	-.2	
. 26		ES	03 35 56.4						-.1	
. 26	ASD	EP	03 35 51.7				36	20	.0	
. 26	ASC	IP	03 35 52.6				42	1	.3	
. 26	AND	EP	03 35 54.1				55	345	.1	
. 26	ANA	EP	03 35 56.1				70	330	.1	
. 26	SSI	EP	03 35 59.6	9.8	.1	3.05	95	18	-.1	
. 26	RAT	EP	03 36 0.0	5.2	.1	2.79	98	324	-.2	

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 . 26 4 16 24.24 51.48 N 178.67 E DEPTH = 34.5 KM FREE DEPTH SOLUTION
 . RAT ISLANDS, ALEUTIAN ISLANDS
 .

. 26	ANA	IP D	04 16 30.3				17	358	-.1	
. 26	AND	EP	04 16 30.8				22	64	-.0	
. 26	ACF	EP	04 16 31.1				23	76	.1	
. 26	ACB	IP	04 16 31.8				29	93	.2	
. 26	ACD	IP	04 16 32.1				33	99	.2	
. 26	ASC	IP	04 16 32.2				34	92	.1	
. 26	ACE	EP	04 16 32.2				36	103	-.1	
. 26	ASB	IP	04 16 32.9	5.5	.1	2.56	42	108	-.1	
. 26		ES	04 16 39.2						-.2	
. 26	ASD	EP	04 16 33.6	2.8	.1	2.30	48	101	-.1	
. 26	SSI	EP	04 16 37.9	6.8	.1	2.83	78	54	-.0	

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 . 26 18 55 30.91 51.97 N 179.66 W DEPTH = 146.1 KM FREE DEPTH SOLUTION
 . DELAROF ISLANDS, ALEUTIAN ISLANDS
 .

. 26	SSI	IP	18 55 51.7	11.2	.1	3.28	52	261	.0	
. 26	AMA	IP D	18 55 53.5	23.8	.1	3.64	85	153	-.0	
. 26	ASD	IP	18 55 54.1	29.4	.1	3.75	94	227	-.1	
. 26	ASB	IP	18 55 54.6	3.8	.1	2.87	101	228	-.1	
. 26		ES	18 56 12.0						-.0	
. 26	ASC	IP	18 55 54.7				99	236	.2	
. 26	AND	IP	18 55 54.9				106	245	-.1	
. 26	ANA	IP	18 55 56.4				122	252	.1	
. 26	RAT	IP	18 55 57.7				139	263	-.1	

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 . 26 19 16 52.80 52.09 N 175.74 W DEPTH = 179.0 KM TELESEISMIC SOLUTION
 . ANDREANOF ISLANDS, ALEUTIANS ISLANDS
 .

. 26	ADK	EP	19 17 18.2				69	251	.1	
. 26		ES	19 17 32.9						-3.7	
. 26	AMA	IP	19 17 32.9	93.5	.2		249	250	.0	
. 26	SSI	IP	19 17 40.5	22.2	.1		321	268	-.1	
. 26	ASD	EP	19 17 43.4	7.7	.1		348	259	-.2	
. 26	ASB	EP	19 17 44.3	17.4	.1		355	259	-.2	
. 26		ES	19 18 17.9						-4.3	
. 26	ASC	EP	19 17 44.7				358	261	-.1	
. 26	AND	EP	19 17 46.0				370	263	-.1	
. 26	ANA	EP	19 17 48.1				388	265	-.1	

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NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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26	19 56	6.34	51.92 N 179.59 W	DEPTH = 50.0 KM			FIXED DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
26	ASD	EP	19 56 22.3	1.7	.1	2.31	94	232	-.0	
26	ASB	EP	19 56 23.1	3.8	.1	2.69	102	233	-.1	
		ES	19 56 35.5						-.0	
26	ASC	EP	19 56 23.2				100	240	.2	
26	AND	EP	19 56 24.0				108	249	-.0	
26	ANA	IP	19 56 26.0				125	256	-.1	

26	20 54	29.30	52.24 N 172.24 E	DEPTH = 52.0 KM			TELESEISMIC SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
26	RAT	EP	20 55 26.0	272.7	.3		420	94	.6	
26	ANA	EP	20 55 30.1				446	96	1.5	
26	AND	EP	20 55 31.8				467	97	.6	
26	ASB	EP	20 55 36.2				492	99	1.9	
26	ASD	EP	20 55 36.9				498	98	1.9	
		ES	20 56 24.7						1.7	

27	1 4	29.14	51.58 N 178.40 W	DEPTH = 0.0 KM			FIXED DEPTH SOLUTION			
DELAROF ISLANDS, ALEUTIAN ISLANDS										
27	AMA	IP	01 04 40.0	77.8	.1	3.74	59	237	.2	
		IS	01 04 48.1						.6	
27	ADK	EP	01 04 50.4				123	73	.2	
		ES	01 05 5.5						-.1	
27	SSI	IP	01 04 55.0				143	285	1.8	
27	ASD	EP	01 04 55.3	4.8	.1	2.92	158	263	-.1	
		ES	01 05 14.5						-.1	
27	ASB	EP	01 04 55.6	6.5	.1	3.07	165	263	-.9	
27	ASC	EP	01 04 57.1				169	267	-.0	
27	AND	EP	01 04 58.6				183	271	-.7	
27	ANA	EP	01 05 2.1				203	273	-.2	

27	2 16	50.54	51.20 N 178.70 E	DEPTH = 28.6 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
27	ACE	IP	02 16 58.6				40	55	.0	
27	ASB	IP C	02 16 58.8	16.3	.1	3.00	42	64	-.1	
		IS	02 17 4.3						-.6	
27	ACB	IP	02 16 58.8				40	42	.2	
27	ACD	IP	02 16 58.8				40	50	.2	
27	ACF	IP	02 16 59.0				42	29	.2	
27	ACA	IP	02 16 59.1				43	43	.1	
27	ASC	IP	02 16 59.2				44	47	.1	
27	AND	IP D	02 16 59.2				44	23	.1	
27	ASD	IP	02 16 59.6	3.9	.1	2.43	50	64	-.3	
27	ANA	IP	02 16 59.8				48	357	.2	
27	RAT	IP	02 17 2.5	9.6	.1	2.94	72	339	-.5	
27	SSI	EP	02 17 7.0				99	38	-.0	

27	ADK	EP	03 30 23.5
		ES	03 30 47.1

27	ADK	EP	03 35 6.9
		ES	03 35 35.9

27	ANA	EP	04 59 51.6
		ES	05 00 23.0

27	AND	EP	04 59 54.2
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NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
27	ASC	IP	04 59 59.1							
27	ASB	EP	05 00 .1							LOW AMP
27	ASD	EP	05 00 .7							VERY EMERGENT
.....										
27	6 28 24.94		51.21 N 172.97 E	DEPTH = 50.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
27	RAT	IP D	06 29 15.4	124.0	.3		377	78	-.3	
27	ANA	IP C	06 29 18.4				397	81	.2	
27	AND	EP	06 29 20.0				417	82	-.7	
27	ASB	EP	06 29 22.4	18.9	.2		437	85	-.7	
27		ES	06 30 5.6						-.0	
27	ASD	EP	06 29 23.4	8.1	.2		443	85	-.5	
27	SSI	IP	06 29 26.5				464	78	.0	
27	AMA	EP	06 29 38.1	3.8	.1		551	86	.9	
27	ADK	EP	06 29 59.4				719	80	1.4	
27		ES	06 31 9.6						3.7	
.....										
27	7 51 32.11		51.23 N 179.45 E	DEPTH = 30.4 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
27	ASD	IP D	07 51 38.0	3.8	.1	2.23	20	337	-.0	
27	ASB	EP	07 51 38.1	1.9	.1	1.94	21	316	-.0	
27		IS	07 51 42.5						.0	
27	ASC	EP	07 51 39.6				33	323	.2	
27	AND	EP	07 51 41.5				51	317	-.2	
27	ANA	EP	07 51 44.6				71	309	.1	
27	SSI	EP	07 51 45.1	2.7	.1	2.41	75	7	.0	
.....										
27	ADK	EP	10 47 12.9							
27		ES	10 47 21.9							
27	ADK	EP	10 50 35.8							
27		ES	10 50 58.8							
.....										
27	12 27 .24		51.49 N 179.65 E	DEPTH = 20.6 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
27	ASD	IP	12 27 5.4	12.3	.1	2.69	24	243	-.2	
27	ASB	IP	12 27 6.5	25.8	.1	3.08	32	243	-.1	
27		IS	12 27 11.1						-.0	
27	ASC	EP	12 27 6.9				34	265	.0	
27	ACE	IP	12 27 7.1				35	254	.1	
27	ACA	IP	12 27 7.3				37	269	.0	
27	ACD	IP	12 27 7.4				36	259	.2	
27	ACB	IP	12 27 7.8				39	266	.2	
27	SSI	IP D	12 27 8.5	4.4	.1	2.42	45	354	.0	
27	ACF	IP	12 27 8.5				46	275	-.1	
27	AND	EP	12 27 8.8				49	280	-.2	
27	ANA	EP	12 27 12.1				70	283	-.1	
27	AMA	EP C	12 27 15.0	2.9	.1	2.49	89	104	-.0	
.....										
27	13 45 11.40		29.19 N 130.11 E	DEPTH = 56.0 KM MB = 5.5			TELESEISMIC SOLUTION			
RYUKYU ISLANDS										
27	ADK	E	13 53 23.7				5019	44		

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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27	15 37 17.02	50.13 N 178.29 E DEPTH = 20.0 KM				FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
27	ASB	IP	15 37 41.6	10.5	.1	3.25	153	26	.2	
		ES	15 37 59.0						-.2	
27	ASD	IP D	15 37 42.3	27.2	.1	3.68	159	27	-.0	
		E(T)	15 39 4.0							
27	ASC	IP	15 37 42.8				161	22	.2	
27	AND	IP	15 37 43.3				166	16	-.2	
27	ANA	IP	15 37 43.8				169	9	-.0	
27	RAT	IP	15 37 45.8	13.1	.1	3.42	186	1	-.4	
27	AMA	IP	15 37 50.5	11.7	.1		224	54	-.4	
27	SSI	IP	15 37 50.7	59.8	.1		216	24	.8	
27	ADK	EP	15 38 13.4				402	59	.5	
		ES	15 38 53.9						.2	

27	18 24 48.10	18.65 S 178.93 W DEPTH = 489.0 KM MB = 4.4				TELESEISMIC SOLUTION				
FIJI ISLANDS REGION										
27	ADK	EP	18 35 11.9				7812	1		

28	0 46 11.31	50.77 N 179.44 E DEPTH = 8.4 KM				FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
28	ASB	IP D	00 46 23.3	458.2	.1	4.57	67	348	.2	
		ES	00 46 31.6						-.0	
28	ASD	IP D	00 46 23.4				69	354	-.0	
28	ACE	IP D	00 46 24.1				73	345	.2	
28	ACD	IP D	00 46 24.6				76	344	.2	
28	ASC	IP D	00 46 25.0				79	346	.1	
28	ACB	IP D	00 46 25.3				81	342	.2	
28	ACA	IP	00 46 25.4				82	344	.1	
28	ACF	IP	00 46 26.5				90	340	.0	
28	AND	IP	00 46 27.0				95	339	-.2	
28	ANA	IP	00 46 29.2				110	331	-.3	
28	AMA	IP	00 46 30.6				117	60	.0	
28	SSI	IP D	00 46 31.4				125	5	-.5	
28	RAT	EP	00 46 33.8				138	326	-.0	
28	ADK	EP	00 46 54.3				297	64	-1.0	
		ES	00 47 23.1						-4.3	

28	ASD	IP C	01 11 41.9	7.7	.1					NO S.
28	ASB	IP D	01 11 42.1	8.1	.1					
28	AND	EP	01 11 46.2							

28	2 41 27.10	51.61 N 179.77 E DEPTH = 60.2 KM				FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
28	ASD	EP	02 41 37.7	1.7	.1	2.15	39	231	-.0	
		IS	02 41 45.5						-.0	
28	ASB	IP	02 41 38.3	4.3	.1	2.58	46	233	-.1	
28	ASC	IP	02 41 38.5				45	249	.2	
28	AND	EP	02 41 39.2				57	265	-.2	
28	ANA	EP	02 41 41.5				77	271	.0	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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 . 28 5 25 8.12 50.92 N 179.56 E DEPTH = 24.2 KM FREE DEPTH SOLUTION
 . RAT ISLANDS, ALEUTIAN ISLANDS
 .

. 28	ASD	IP	05 25 17.8	65.1	.1	3.67	54	344	-.1	
. 28	ASB	IP	05 25 17.8				53	336	.1	
.		E(S)	05 25 25.1						.4	
. 28	ACE	IP	05 25 18.6				60	333	-.0	
. 28	ACD	IP	05 25 19.2				64	333	-.0	
. 28	ACA	IP	05 25 20.0				69	334	-.1	
. 28	ACF	IP	05 25 21.0				78	330	-.3	
. 28	AND	IP	05 25 21.6				83	330	-.5	
. 28	ANA	EP	05 25 24.4				100	322	-.3	
. 28	AMA	IP	05 25 25.0				102	66	.1	
. 28	SSI	IP D	05 25 25.8	44.3	.1	3.75	108	1	-.0	
. 28	RAT	IP	05 25 30.0				130	319	.9	

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.....
 . 28 11 12 .90 29.84 S 69.49 W DEPTH = 105.0 KM MB = 5.9 TELESEISMIC SOLUTION
 . CHILE-ARGENTINA BORDER REGION
 .

. 28 ADK EP 11 30 45.9 44.5 .6 13701 315
 .

28 ADK EP 11 51 24.8
 ES 11 51 32.2

28 ADK EP 13 03 40.2
 ES 13 03 42.6

28 ASD IP 14 08 56.2 11.9 .1 2.61

IS 14 08 59.1

28 ASC IP 14 08 57.3

28 AND EP 14 08 59.1

28 AND EP 17 06 56.3

28 ASD EP 17 06 56.6 8.5 .1

28 ASB IP 17 06 57.0 7.1 .1

28 ADK EP 20 19 41.3
 ES 20 19 48.8

.....
 . 28 20 58 5.38 51.55 N 178.51 E DEPTH = 32.1 KM FREE DEPTH SOLUTION
 . RAT ISLANDS, ALEUTIAN ISLANDS
 .

. 28	ANA	IP D	20 58 11.2				13	52	.2	
. 28	RAT	IP D	20 58 12.3				30	335	-.2	
. 28	AND	IP	20 58 12.6				31	88	.0	
. 28	ASC	IP	20 58 14.8				46	102	.3	
. 28	ASB	IP	20 58 15.7	33.9	.1	3.41	55	113	-.0	
. 28	ASD	EP	20 58 16.3	17.6	.1	3.16	60	107	-.1	
.		ES	20 58 24.0						-.4	
. 28	SSI	IP C	20 58 19.7				83	63	.0	

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28 ADK E 23 37 28.5

29 ADK EP 03 05 21.3
 ES 03 05 49.6

.....
 . 29 6 2 57.10 49.76 N 78.13 E DEPTH = 0.0 KM MB = 5.5 TELESEISMIC SOLUTION
 . EASTERN KAZAKH SSR
 .

. 29 ADK EP 06 13 11.1 43.0 .5 6731 43
 .

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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29	ADK	IP D	08 32 18.8							
		ES	08 32 29.5							

29	11 14 20.00	52.26 N 174.15 E	DEPTH = 51.0 KM	MB = 4.3	TELESEISMIC SOLUTION					
RAT ISLANDS, ALEUTIAN ISLANDS										
29	RAT	IP	11 15 .4				291	98	.2	
29	ANA	EP	11 15 3.4				317	101	-.0	
29	AND	EP	11 15 6.5				339	101	.4	
29	ASC	EP	11 15 10.1				356	102	1.9	
29	ASB	EP	11 15 10.8	1827.0	.2		365	104	1.5	
		ES	11 15 50.5						5.2	
29	SSI	EP	11 15 11.2				374	94	.8	
29	ASD	EP	11 15 11.7	196.3	.3		370	103	1.8	
29	AMA	EP	11 15 25.1				477	100	2.0	
29	ADK	EP	11 15 42.5				628	90	.7	
		ES	11 16 45.8						4.3	
29	GMA	EP	11 18 30.2				2028	34	-4.4	

29	SHY	EP	11 34 31.1							
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29	13 12 12.40	52.26 N 179.75 E	DEPTH = 205.2 KM	FREE DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										
29	AND	IP	13 12 42.0				95	216	.0	
29	ASD	IP	13 12 42.1	7.7	.1	3.27	101	197	-.2	
		ES	13 13 4.1						-.0	
29	ASC	IP	13 12 42.3				97	205	.2	
29	ANA	IP	13 12 42.4				103	227	-.0	
29	ASB	IP	13 12 42.6	10.4	.1	3.41	106	199	.0	
29	RAT	IP	13 12 42.8	10.1	.1	3.40	110	243	-.0	

29	14 44 27.18	51.40 N 179.16 E	DEPTH = 38.5 KM	FREE DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										
29	ASB	IP	14 44 33.5	5.3	.1	2.41	7	128	.0	
		ES	14 44 38.1						.0	
29	ASD	IP	14 44 33.7	9.7	.1	2.68	12	96	.0	
29	AND	IP	14 44 34.4				23	321	.0	

29	15 4 56.37	51.42 N 179.95 W	DEPTH = 55.0 KM	FREE DEPTH SOLUTION						
DELAROF ISLANDS, ALEUTIAN ISLANDS										
29	ASD	IP C	15 05 7.6	81.9	.1	3.85	50	267	.1	
29	ASB	IP C	15 05 8.4				56	264	.2	
		IS	15 05 16.2						-.6	
29	AMA	IP	15 05 8.4				60	103	-.2	
29	ACE	IP	15 05 8.8				61	269	.1	
29	SSI	IP	15 05 8.9	11.0	.1	3.02	62	329	.1	
29	ASC	IP	15 05 9.0				62	275	.2	
29	ACA	IP	15 05 9.2				65	277	.1	
29	ACD	IP	15 05 9.2				64	272	.2	
29	ACB	IP	15 05 9.5				67	275	.2	
29	ACF	IP	15 05 10.1				75	280	-.1	
29	AND	IP	15 05 10.3				78	283	-.3	
29	ANA	IP	15 05 13.1				99	284	.0	
29	RAT	EP	15 05 16.1				127	290	-.3	
29	ADK	EP	15 05 28.9				231	76	-.3	
		ES	15 05 54.0						.8	

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NOV	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
29	15 22	2.29	51.47 N 179.95 E	DEPTH = 65.9 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
29	ASD	IP C	15 22 13.7	30.1	.1	3.44	43	259	-.1	
		IS	15 22 22.3						.1	
29	ASB	IP	15 22 14.4				50	257	-.0	
29	SSI	IP	15 22 14.7				54	332	.0	
29	ASC	IP	15 22 14.9				55	270	.1	
29	AND	IP	15 22 16.0				70	279	-.3	
29	AMA	EP	15 22 16.1	7.6	.1	2.92	68	106	.0	
29	ANA	EP	15 22 18.7				91	282	.2	
29	ADK	EP	16 23 35.3							
		ES	16 23 56.1							
29	AMA	IP	16 23 57.4	18.1	.1					
29	ASD	EP	16 24 10.5	3.8	.1					
29	ASB	EP	16 24 11.2	10.2	.2					
29	ASC	EP	16 24 11.9							
		ES	16 25 4.3							
29	AND	EP	16 24 13.2							
29	ANA	EP	16 24 16.1							
29	ADK	EP	17 43 41.9							
		ES	17 44 2.5							
29	18 18	53.38	51.52 N 179.40 E	DEPTH = 21.6 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
29	ASC	IP	18 18 58.8				24	223	.0	
29	ASD	IP	18 18 58.9	4.1	.1	2.23	26	189	-.1	
29	ASB	EP	18 18 59.7	3.4	.1	2.20	31	200	.1	
		ES	18 19 4.2						.0	
29	AND	EP	18 18 59.7				31	259	-.0	
29	SSI	IP	18 19 0.0	2.9	.1	2.15	33	23	.0	
29	20 37	8.87	52.06 N 179.85 E	DEPTH = 191.4 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
29	ASD	EP	20 37 36.0	4.5	.1	3.00	82	206	-.2	
29	AND	EP	20 37 36.3				83	229	.1	
29	ASC	IP	20 37 36.4				81	216	.2	
29	ASB	IP	20 37 36.5	11.9	.1	3.43	88	209	-.0	
		ES	20 37 56.7						-.0	
29	ANA	EP	20 37 37.0				95	240	.1	
29	RAT	IP	20 37 37.6	9.3	.1	3.34	108	255	-.1	
29	23 50	53.20	51.13 N 179.00 E	DEPTH = 26.3 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
29	ASB	IP	23 51 0.0	11.9	.1	2.78	31	33	.1	
		IS	23 51 4.6						-.2	
29	ACE	IP	23 51 .2				33	21	.1	
29	ACA	EP	23 51 .4				40	12	-.7	
29	ASD	IP	23 51 .5	16.4	.1	2.97	38	39	-.3	
29	ACD	IP	23 51 .6				35	16	.2	
29	ACB	IP	23 51 1.0				38	9	.2	
29	ASC	IP	23 51 1.1				39	17	.2	
29	ACF	IP	23 51 1.9				45	359	.2	
29	AND	IP	23 51 2.3				49	356	.1	
29	ANA	IP	23 51 4.0				60	337	.1	
29	RAT	EP	23 51 7.7	4.9	.1	2.72	88	328	-.3	
29	SSI	IP	23 51 9.0	6.8	.1	2.88	95	25	.1	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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30	ADK	EP	02 34 58.9							
		ES	02 35 14.5							

30	ADK	EP	05 16 22.0							
		ES	05 16 30.2							

30	5 44 29.30	.12 N 122.97 E	DEPTH = 108.0 KM	MB = 5.0	TELESEISMIC SOLUTION
		NORTHERN CELEBES			

30	ADK	EP	05 55 43.7			8011	34			
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30	6 43 56.50	51.11 N 179.54 E	DEPTH = 44.0 KM	MB = 5.0	MS = 4.7	TELESEISMIC SOLUTION
		RAT ISLANDS, ALEUTIAN ISLANDS				

30	ASB	IP D	06 44 4.9			34	324	-.4		
30	ASD	IP D	06 44 5.0			34	336	-.3		O.L.
30	ACE	IP	06 44 5.7			41	322	-.3		
30	ASC	IP D	06 44 6.2			47	326	-.4		
30	ACA	IP	06 44 6.2			50	325	-.8		
30	ACB	IP	06 44 6.2			50	322	-.8		
30	ACD	IP	06 44 6.2			45	322	-.2		
30	ACF	IP	06 44 8.1			60	321	-.0		
30	AND	IP D	06 44 8.6			65	321	-.1		
30	ANA	IP D	06 44 10.8			84	314	-.3		
30	AMA	IP D	06 44 12.3			96	78	-.3		
30	SSI	IP D	06 44 12.9			87	2	1.4		
30	RAT	IP	06 44 14.8			114	313	.0		
30	ADK	EP	06 44 35.8			275	70	1.1		
		ES	06 45 6.0					3.3		
30	SMY	EP	06 44 55.0			414	298	3.1		
30	NIK	EP	06 45 45.5			821	71	3.5		
30	GMA	EP	06 47 59.6			1945	27	-1.2		

30	ASB	IP D	06 46 22.3							
30	ASD	IP D	06 46 22.4							
30	ASC	IP	06 46 24.0							
30	AND	IP	06 46 26.1							

30	6 47 23.43	50.89 N 179.43 E	DEPTH = 25.0 KM		FIXED DEPTH SOLUTION
		RAT ISLANDS, ALEUTIAN ISLANDS			

30	ASB	IP D	06 47 33.3	246.7	.1	4.25	54	346	.1	
		IS	06 47 40.3						.0	
30	ASD	IP D	06 47 33.4				56	354	-.1	
30	ASC	IP	06 47 35.1				67	344	.1	
30	AND	IP	06 47 37.2				82	336	-.1	

30	6 49 58.12	51.18 N 179.45 E	DEPTH = 25.0 KM		FIXED DEPTH SOLUTION
		RAT ISLANDS, ALEUTIAN ISLANDS			

30	ASD	IP C	06 50 3.9	19.2	.1	2.93	25	342	-.1	
30	ASB	IP	06 50 4.0	773.0	.1	4.54	25	325	.0	
		ES	06 50 11.0						2.8	
30	ACE	IP	06 50 4.6				32	322	-.2	
30	ACD	IP	06 50 5.1				36	322	-.2	
30	ASC	IP	06 50 5.5				37	328	-.0	
30	ACB	EP	06 50 5.9				40	322	-.0	
30	ACA	EP	06 50 6.0				41	326	-.0	
30	ACF	IP	06 50 7.0				50	321	-.3	
30	AND	EP	06 50 7.7				55	321	-.3	
30	SSI	IP	06 50 11.9	4.4	.1	2.63	80	7	.2	
30	RAT	IP	06 50 16.1	9.3	.1	3.06	104	312	.9	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
30	6 51	4.02	51.18 N 179.44 E	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASD	IP D	06 51 9.8	55.0	.1	3.39	25	345	-.0	
30	ASB	IP	06 51 9.8				24	327	-.0	
		ES	06 51 16.8						2.8	
30	ACE	IP	06 51 10.5				31	324	-.1	
30	ACD	IP	06 51 11.1				35	323	-.0	
30	ASC	IP	06 51 11.4				37	329	.0	
30	ACB	IP	06 51 11.7				40	323	-.1	
30	ACA	IP	06 51 11.8				41	327	-.0	
30	ACF	IP	06 51 12.9				50	322	-.2	
30	AND	IP	06 51 13.5				55	322	-.3	
30	ANA	EP	06 51 16.7				74	313	.1	
30	SSI	IP	06 51 17.8				80	7	.2	
30	RAT	IP	06 51 21.6				103	312	.6	
30	7 2	15.52	51.19 N 179.41 E	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASD	IP	07 02 21.0	14.0	.1	2.78	23	348	-.1	
		ES	07 02 28.0						2.8	
30	ASB	IP	07 02 21.1				22	329	.1	
30	ACE	EP	07 02 21.7				28	325	-.1	
30	ACD	EP	07 02 22.3				32	324	.0	
30	ASC	IP	07 02 22.9				35	331	.3	
30	ACF	EP	07 02 24.2				47	322	-.1	
30	AND	EP	07 02 24.8				52	323	-.2	
30	SSI	IP C	07 02 28.9	7.1	.1	2.84	79	9	-.0	
30	7 6	28.00	51.13 N 179.44 E	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASD	EP	07 06 34.3	5.2	.1	2.40	29	347	-.1	
		ES	07 06 41.7						2.7	
30	ASB	EP	07 06 34.3	7.1	.1	2.53	28	332	.0	
30	ASC	EP	07 06 35.9				41	333	-.0	
30	SSI	EP	07 06 42.3				85	7	.0	
30	7 7	3.26	51.12 N 179.50 E	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASD	IP C	07 07 10.0	7.6	.1	2.58	32	340	.0	
30	ASB	IP	07 07 10.0	9.0	.1	2.66	32	326	.0	
30	ASC	EP	07 07 11.7				45	328	.0	
30	7 10	11.59	51.07 N 179.69 E	DEPTH = 43.3 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASD	IP C	07 10 21.3	8.8	.1	2.81	44	326	-.0	
30	ASB	IP	07 10 21.5	9.8	.1	2.86	45	317	.0	
		ES	07 10 28.7						.0	
30	ASC	IP	07 10 23.0				57	320	.1	
30	AND	EP	07 10 25.1				75	317	-.0	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
30	7 16	52.71	50.84 N 179.49 E	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASB	IP	07 17 3.5	1124.3	.1	4.94	60	344	.2	
		ES	07 17 11.0						-.0	
30	ASD	IP D	07 17 3.6	148.5	.2	3.77	62	350	.0	
30	ACE	IP	07 17 4.3				66	340	.1	
30	ACD	IP	07 17 4.8				70	339	.1	
30	ASC	IP	07 17 5.3				73	342	.2	
30	ACB	IP	07 17 5.5				74	338	.1	
30	ACA	IP	07 17 5.6				76	340	.0	
30	ACF	IP	07 17 6.8				84	336	.0	
30	AND	IP	07 17 7.3				88	335	-.2	
30	ANA	EP	07 17 9.6				105	327	-.3	
30	AMA	EP	07 17 10.7				110	63	.0	
30	SSI	IP	07 17 11.5				117	3	-.3	
30	7 24	26.20	12.56 N 142.79 E	DEPTH = 125.0 KM MB = 5.2			TELESEISMIC SOLUTION			
SOUTH OF MARIANA ISLANDS										
30	ADK	EP	07 33 17.5				5669	31		
30	7 43	58.06	50.97 N 179.48 E	DEPTH = 50.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASD	IP 2	07 44 8.1	4.5	.1	2.57	48	348	-.6	
30	ASB	IP	07 44 8.1	4.1	.1	2.52	46	340	-.4	
		ES	07 44 15.3						-.8	
30	ACE	IP	07 44 8.8				52	336	-.3	
30	ACD	IP	07 44 9.4				56	335	-.2	
30	ASC	IP	07 44 9.8				59	338	-.1	
30	ACA	EP	07 44 10.0				62	336	-.2	
30	ACB	EP	07 44 10.0				61	334	-.1	
30	ACF	EP	07 44 11.3				70	331	.1	
30	AND	EP	07 44 11.8				75	331	.0	
30	ANA	EP	07 44 15.1				93	322	1.3	
30	SSI	IP	07 44 16.0				103	4	.9	
30	7 45	41.98	50.87 N 179.44 E	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASB	IP	07 45 52.3	1091.3	.2	4.60	56	346	.3	
30	ASD	IP	07 45 52.4				58	353	.1	
30	ACE	IP D	07 45 53.0				62	342	.2	
30	ACD	IP D	07 45 53.6				65	341	.3	
30	ASC	IP	07 45 54.0				68	344	.2	
30	ACB	IP D	07 45 54.2				70	340	.2	
30	ACA	IP D	07 45 54.3				71	342	.1	
30	ACF	IP C	07 45 55.4				79	337	.0	
30	AND	IP	07 45 55.9				84	336	-.2	
30	ANA	IP	07 45 58.3				100	327	-.2	
30	AMA	IP	07 46 0.0				111	65	-.2	
30	SSI	IP D	07 46 .4				114	5	-.2	
30	RAT	IP	07 46 2.2							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
30	7 49	9.60	50.99 N 179.48 E	DEPTH = 40.0 KM MB = 4.4			TELESEISMIC SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASD	IP D	07 49 18.8				45	348	-.5	
30	ASB	IP D	07 49 18.8				44	338	-.3	
30	ACE	IP D	07 49 19.6				50	335	-.2	
30	ACD	IP D	07 49 20.1				54	334	-.2	
30	ASC	IP D	07 49 20.5				57	337	-.2	
30	ACB	IP D	07 49 20.8				59	333	-.1	
30	ACA	IP D	07 49 20.9				60	335	-.2	
30	ACF	IP C	07 49 22.0				68	330	-.2	
30	AND	IP D	07 49 22.5				73	330	-.4	
30	ANA	IP	07 49 24.8				91	321	-.4	
30	AMA	IP D	07 49 26.1				104	71	-.7	
30	SSI	IP D	07 49 26.8				100	4	.4	
30	RAT	EP	07 49 28.8				120	319	-.0	
30	ADK	EP	07 49 50.0				284	68	.9	
		ES	07 50 22.6						4.7	
30	NIK	E(P)	07 50 58.8				829	70	2.5	
.....										
30	ADK	EP	08 41 45.2							
		ES	08 42 32.8							
30	ADK	E	08 46 21.8							
.....										
30	8 54	54.34	50.97 N 179.39 E	DEPTH = 50.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASD	IP	08 55 4.2	30.2	.1	3.39	47	356	-.7	
30	ASB	IP	08 55 4.2				45	347	-.4	
		ES	08 55 11.5						-.6	
30	ACE	IP	08 55 5.0				50	342	-.2	
30	ACD	IP	08 55 5.6				54	341	-.0	
30	ASC	IP	08 55 5.9				57	344	-.0	
30	ACB	IP	08 55 6.2				59	339	.1	
30	ACA	IP	08 55 6.4				60	341	.1	
30	ACF	IP	08 55 7.6				68	336	.4	
30	AND	EP	08 55 8.0				73	335	.3	
30	SSI	IP C	08 55 12.1				104	7	.7	
.....										
30	9 2	9.49	50.95 N 179.64 E	DEPTH = 40.7 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASD	IP	09 02 20.2	7.3	.1	2.76	53	337	.1	
30	ASB	IP	09 02 20.2	10.7	.1	2.93	53	329	.1	
		ES	09 02 28.0						.1	
30	ASC	IP C	09 02 21.8				65	330	.0	
.....										
30	9 36	51.12	51.16 N 179.43 E	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASB	IP D	09 36 56.9	169.0	.1	3.88	26	329	-.1	
		IS	09 37 4.5						3.2	
30	ASD	IP D	09 36 57.1				26	346	-.0	
30	ACE	IP D	09 36 57.8				32	326	-.0	
30	ACD	IP	09 36 58.3				36	325	-.0	
30	ASC	IP D	09 36 58.7				38	331	.1	
30	ACB	IP	09 36 58.9				41	324	-.1	
30	ACA	IP	09 36 59.1				42	328	.0	
30	ACF	IP	09 37 .1				51	323	-.3	
30	AND	IP	09 37 .8				56	323	-.3	
30	ANA	EP	09 37 3.5				74	314	-.3	

NOV 1971	STA	PHASE	TIME (GMT)		AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
. 30	SSI	IP	09 37	5.1	6.1	.1	2.78	82	7	.2	
. 30	RAT	IP	09 37	9.3				104	313	1.0	
.....											
. 30	9 43 41.98		51.07 N	179.45 E	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS											
. 30	ASB	EP	09 43	49.2				36	337	.0	
		ES	09 43	56.9						2.5	
. 30	ASD	IP	09 43	49.3				37	348	-0.0	
. 30	ACE	IP	09 43	50.0				42	333	-0.0	
. 30	ACD	EP	09 43	50.6				46	332	-0.0	
. 30	ASC	IP	09 43	50.9				48	336	-0.0	
. 30	ACB	IP	09 43	51.2				51	331	-0.0	
. 30	ACA	EP	09 43	51.4				52	334	-0.0	
. 30	SSI	IP	09 43	57.4	4.9	.1	2.73	93	6	.0	
.....											
. 30	10 1 18.90		51.13 N	179.46 E	DEPTH = 25.0 KM			FIXED DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS											
. 30	ASB	IP	10 01	25.2	3.0	.1	2.16	29	329	-0.1	
		ES	10 01	32.6						2.7	
. 30	ASD	IP	10 01	25.3	3.2	.1	2.20	30	344	-0.0	
. 30	ACE	IP	10 01	26.0				36	326	-0.1	
. 30	ACD	IP	10 01	26.6				40	325	-0.0	
. 30	ASC	IP	10 01	27.0				42	331	-0.1	
. 30	ACB	EP	10 01	27.3				45	325	-0.0	
. 30	ACA	EP	10 01	27.4				45	328	-0.0	
. 30	ACF	EP	10 01	28.7				55	323	-0.0	
. 30	AND	IP	10 01	29.1				59	324	-0.3	
. 30	ANA	EP	10 01	32.6				78	315	-0.4	
. 30	SSI	IP C	10 01	33.3				85	6	-0.1	
.....											
. 30	10 7 14.44		50.90 N	179.44 E	DEPTH = 31.6 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS											
. 30	ASB	IP	10 07	24.6	429.2	.1	4.50	53	345	-0.2	
		IS	10 07	31.3						-0.3	
. 30	ASD	IP	10 07	24.7				55	353	-0.0	
. 30	ACE	IP	10 07	25.3				59	341	-0.1	
. 30	ACD	IP	10 07	25.8				62	340	-0.1	
. 30	ASC	IP	10 07	26.3				65	343	-0.2	
. 30	ACB	EP	10 07	26.4				67	339	-0.0	
. 30	ACA	IP	10 07	26.6				68	341	-0.1	
. 30	ACF	IP	10 07	27.6				76	336	-0.1	
. 30	AND	IP	10 07	28.2				81	335	-0.2	
. 30	ANA	EP	10 07	30.5				97	326	-0.2	
. 30	AMA	EP	10 07	32.5	28.1	.1	3.56	110	66	-0.1	
. 30	SSI	IP D	10 07	32.9				111	5	-0.2	
. 30	ADK	EP	10 07	56.8				290	66	1.3	
		ES	10 08	27.4						2.0	
.....											
. 30	12 54 53.23		51.04 N	179.77 E	DEPTH = 46.5 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS											
. 30	ASD	IP	12 55	3.8	17.1	.1	3.14	50	323	-0.0	
		ES	12 55	11.5						-0.0	
. 30	ASB	IP	12 55	4.0				51	315	-0.0	
. 30	ASC	IP	12 55	5.4				64	319	-0.0	
. 30	AND	EP	12 55	7.6				82	316	-0.0	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
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30	13 16	44.26	51.12 N 179.50 E	DEPTH = 25.0 KM		FIXED DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASD	IP	13 16 51.0	12.3	.1	2.80	32	340	.0	
30	ASB	EP	13 16 51.0	11.1	.1	2.75	32	326	.0	
30	ASC	EP	13 16 52.7				45	328	.0	

30	13 42	18.15	51.87 N 179.33 E	DEPTH = 106.2 KM		FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
30	SSI	IP	13 42 32.9	12.2	.1	3.17	18	82	-.1	
30	ACF	IP	13 42 33.9				45	212	-.1	
30	ACA	IP	13 42 34.0				46	199	-.1	
30	ASC	IP	13 42 34.1				47	194	-.0	
30	ACB	IP	13 42 34.1				48	200	-.1	
30	ANA	IP	13 42 34.4				54	240	-.1	
30	ACD	IP	13 42 34.4				51	196	.0	
30	ACE	IP	13 42 34.4				54	192	-.1	
30	ASD	IP	13 42 34.5				53	179	-.0	
30	ASB	EP	13 42 34.6	221.4	.1	4.48	57	186	-.1	
	ES		13 42 46.9						.1	
30	AND	IP	13 42 34.7				43	218	.8	
30	AMA	IP	13 42 40.7				126	120	.1	
30	ADK	EP	13 42 57.4				274	88	.1	
	ES		13 43 28.8						2.9	

30	14 17	58.33	50.89 N 179.30 E	DEPTH = 50.0 KM		FIXED DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASB	IP D	14 18 9.1				52	356	-.3	
	IS		14 18 16.4						-1.0	
30	ASD	IP D	14 18 9.8				55	3	.1	
30	ACE	IP	14 18 9.8				57	351	-.1	
30	ACD	IP	14 18 10.4				61	349	.1	
30	ASC	IP	14 18 10.8				64	351	.1	
30	ACB	IP	14 18 11.0				65	347	.2	
30	ACA	IP	14 18 11.1				67	349	.1	
30	AND	IP	14 18 12.7				78	342	.3	
30	ANA	EP	14 18 15.0				93	331	.8	
30	AMA	EP	14 18 16.0				119	68	-1.4	
30	RAT	EP	14 18 16.6				121	326	-1.0	
30	SSI	IP D	14 18 17.1				113	10	.5	
30	ADK	EP	14 18 40.2				300	67	.6	
	ES		14 19 10.1						.4	

30	14 33	33.19	51.10 N 178.90 E	DEPTH = 37.8 KM		FREE DEPTH SOLUTION				
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASB	IP D	14 33 41.9	325.7	.1	4.32	38	39	.1	
	IS		14 33 47.8						-.3	
30	ACE	IP	14 33 41.9				39	29	.0	
30	ACD	IP	14 33 42.2				40	23	.1	
30	ACB	IP	14 33 42.4				43	18	.0	
30	ASD	IP	14 33 42.5				45	43	-.1	
30	ASC	IP	14 33 42.6				45	24	.0	
30	ACA	IP	14 33 42.7				45	19	.0	
30	ACF	IP	14 33 43.1				48	7	.1	
30	AND	IP	14 33 43.4				52	4	-.1	
30	ANA	IP	14 33 44.8				62	344	.1	
30	RAT	IP D	14 33 48.2				88	333	-.2	
30	SSI	IP D	14 33 50.3				101	28	.1	
30	AMA	EP	14 33 55.0				140	80	-.1	

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
.....										
30	14 55	10.71	50.90 N 179.55 E	DEPTH = 22.0 KM MB = 3.5			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASD	IP	14 55 20.7				57	345	-.0	
30	ASB	IP	14 55 20.7				56	338	.1	
		ES	14 55 28.0						.2	
30	ACE	IP	14 55 21.5				62	335	.0	
30	ACD	IP	14 55 22.1				66	334	.0	
30	ASC	IP	14 55 22.4				69	337	-.0	
30	ACB	IP	14 55 22.8				71	333	.0	
30	ACA	IP	14 55 22.9				72	335	-.0	
30	ACF	IP	14 55 24.0				80	331	-.2	
30	AND	IP	14 55 24.5				85	331	-.4	
30	ANA	IP	14 55 26.8				102	323	-.7	
30	AMA	EP	14 55 27.7				103	65	.1	
30	SSI	IP	14 55 28.8				111	1	.0	
30	RAT	IP	14 55 33.1				132	320	1.2	
30	ADK	EP	14 55 51.9				283	66	.2	
		ES	14 56 20.8						-.8	
.....										
30	14 58	54.38	50.92 N 179.54 E	DEPTH = 30.5 KM MB = 4.1			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASD	IP	14 59 4.4				54	345	.0	
30	ASB	IP	14 59 4.4				53	337	.2	
		IS	14 59 11.3						-.1	
30	ACE	IP	14 59 5.2				59	334	.1	
30	ACD	IP	14 59 5.8				63	334	.1	
30	ASC	IP	14 59 6.1				66	337	.1	
30	ACB	IP	14 59 6.4				68	333	.1	
30	ACA	IP	14 59 6.5				69	335	.0	
30	ACF	IP	14 59 7.6				77	331	-.1	
30	AND	IP	14 59 8.2				82	330	-.2	
30	ANA	EP	14 59 10.3				99	322	-.7	
30	AMA	EP	14 59 11.4				103	66	-.1	
30	SSI	IP D	14 59 12.3				108	2	.1	
30	RAT	IP	14 59 15.8				129	320	.5	
30	ADK	EP	14 59 35.4				283	66	.8	
		ES	15 00 5.4						-.8	
.....										
30	16 24	56.82	52.16 N 179.61 E	DEPTH = 158.7 KM			FREE DEPTH SOLUTION			
RAT ISLANDS, ALEUTIAN ISLANDS										
30	AND	IP	16 25 20.4				80	214	-.1	
30	ACF	IP	16 25 20.5				82	211	-.1	
30	ACA	IP	16 25 20.7				83	204	.1	
30	ACB	IP	16 25 20.7				85	205	-.1	
30	ASD	IP	16 25 20.8	35.8	.1	3.85	87	192	-.1	
30	ANA	P	16 25 20.9				88	228	-.0	
30	ASC	IP	16 25 20.9				83	202	.3	
30	ACD	IP	16 25 20.9				88	202	-.0	
30	ACE	IP	16 25 21.0				90	200	-.0	
30	ASB	IP	16 25 21.2	1897.3	.1	5.58	92	196	-.0	
		ES	16 25 39.0						-.0	
30	AMA	IP	16 25 24.1				131	137	-.0	
.....										
30	ADK	EP	18 03 10.3							
		ES	18 03 24.0							
30	ADK	EP	19 00 55.3							
		ES	19 01 7.9							
30	ADK	EP	19 27 50.3							

NOV 1971	STA	PHASE	TIME (GMT)	AMP (MU)	PER (SEC)	MAG	DIST (KM)	AZI (DEG)	RES (SEC)	REMARKS
		ES	19 27 58.5							
30	ADK	EP	21 57 56.4							
		ES	21 58 5.2							
30	ADK	EP	21 58 55.0							
		ES	21 59 4.6							

30	22 18 49.88	50.91 N 179.46 E	DEPTH = 31.8 KM	FREE DEPTH SOLUTION						
RAT ISLANDS, ALEUTIAN ISLANDS										
30	ASB	IP	22 18 59.8	431.2	.1	4.50	52	343	.1	
		IS	22 19 6.8						-.1	
30	ASD	IP D	22 18 59.9				54	351	-.1	
30	ASC	IP	22 19 1.5				64	341	.1	
30	AND	IP	22 19 3.6				80	334	-.1	
30	AMA	IP	22 19 7.8				108	67	-.0	
30	SSI	IP	22 19 8.0				109	5	.0	
30	ADK	EP	22 19 32.2				289	67	1.5	
		ES	22 20 1.4						1.0	

30	ADK	EP	22 29 54.1							
		ES	22 30 3.8							

NOV 1971	ORIGIN TIME (GMT)	LAT	LONG	DEPTH* (KM)	MB	MS	GEOGRAPHIC REGION
01	3 41 31.54	51.58 N	179.82 E	75.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
01	13 17 37.18	50.75 N	175.69 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
01	13 32 10.15	51.75 N	178.98 W	98.5 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
01	14 39 55.50	51.42 N	177.69 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
01	17 33 50.53	52.47 N	178.83 E	125.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
01	21 17 37.53	50.86 N	178.03 E	11.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
01	23 48 26.88	51.03 N	178.73 E	23.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
02	0 53 4.79	50.99 N	178.15 E	65.9 F			RAT ISLANDS, ALEUTIAN ISLANDS
02	3 57 44.13	51.17 N	178.68 E	31.9 F			RAT ISLANDS, ALEUTIAN ISLANDS
02	8 34 47.00	2.94 S	139.39 E	57.0 T	5.1		NEAR N. COAST OF WEST NEW GUINEA
02	13 43 8.73	51.25 N	179.75 W	49.1 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
02	14 36 28.26	51.37 N	178.76 E	40.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
02	15 37 4.85	51.25 N	177.79 E	0.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
02	19 49 29.76	51.68 N	179.79 E	107.1 F			RAT ISLANDS, ALEUTIAN ISLANDS
03	3 23 41.63	51.42 N	179.18 E	45.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
03	6 3 55.77	51.62 N	178.65 E	70.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
03	10 28 11.13	51.59 N	179.58 W	179.0 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
03	10 51 28.96	51.10 N	179.93 W	33.8 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
03	15 44 58.60	52.02 N	177.31 W	97.0 T	4.4		ANDREANOF ISLANDS, ALEUTIANS ISLANDS
03	19 28 13.15	50.91 N	177.30 E	0.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
03	21 28 9.11	51.35 N	178.68 E	37.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
03	23 16 35.90	51.37 N	177.21 W	33.0 T	3.9		ANDREANOF ISLANDS, ALEUTIANS ISLANDS
04	2 2 27.64	52.08 N	178.51 E	160.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
04	5 0 37.96	51.18 N	179.36 E	42.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
04	17 53 18.45	51.72 N	179.84 E	20.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
04	18 8 31.84	51.70 N	178.57 E	52.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
05	8 14 18.15	51.01 N	179.36 W	24.1 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
05	10 30 48.73	51.95 N	178.80 E	100.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
05	11 10 44.00	51.38 N	179.43 W	29.4 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
05	18 4 39.55	51.48 N	178.88 E	48.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
05	22 38 45.23	51.54 N	178.15 E	62.2 F			RAT ISLANDS, ALEUTIAN ISLANDS

NOV 1971	ORIGIN TIME (GMT)	LAT	LONG	DEPTH* (KM)	MB	MS	GEOGRAPHIC REGION
07	5 0 26.31	51.79 N	178.07 E	78.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
07	5 25 46.40	51.32 N	179.41 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
07	10 1 43.81	51.24 N	178.50 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
07	10 59 34.32	51.62 N	178.97 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
07	13 26 49.06	51.44 N	179.32 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
07	18 18 28.71	51.18 N	178.51 E	24.9 F			RAT ISLANDS, ALEUTIAN ISLANDS
07	19 10 39.46	51.17 N	178.51 E	25.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
08	3 38 40.39	51.07 N	179.57 W	31.2 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
08	8 31 32.09	51.06 N	179.38 W	29.4 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
08	22 43 .60	5.77 N	126.51 E	164.0 T	5.7		MINDANAO, PHILIPPINE ISLANDS
08	23 14 35.68	51.55 N	178.54 E	63.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
08	23 24 5.54	51.09 N	179.41 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
09	4 53 22.12	51.42 N	179.25 E	38.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
09	12 19 2.93	51.25 N	179.58 E	37.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
09	14 25 57.44	51.60 N	179.38 E	84.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
09	15 56 2.96	51.26 N	178.72 E	40.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
10	6 33 30.05	51.97 N	178.85 W	128.0 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
10	10 22 42.40	5.28 S	152.64 E	49.0 T	5.2	5.4	NEW BRITAIN REGION
10	12 10 51.67	51.75 N	179.50 W	8.6 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
11	4 40 38.52	51.43 N	179.45 E	75.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
11	18 46 55.50	50.99 N	178.96 E	0.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
12	3 13 30.28	51.18 N	179.46 W	54.8 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
12	3 16 35.04	51.65 N	178.64 E	76.9 F			RAT ISLANDS, ALEUTIAN ISLANDS
12	17 24 20.81	50.99 N	179.54 E	37.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
12	19 36 53.50	51.76 N	175.95 E	71.0 T	4.3		RAT ISLANDS, ALEUTIAN ISLANDS
13	6 43 2.46	51.17 N	178.62 E	24.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
13	8 56 38.77	51.39 N	179.68 W	77.4 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
13	15 49 28.13	52.16 N	178.62 E	125.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
13	17 29 18.32	51.44 N	179.54 E	63.1 F			RAT ISLANDS, ALEUTIAN ISLANDS
13	17 55 12.70	51.37 N	177.93 W	27.0 T			ANDREANOF ISLANDS, ALEUTIANS ISLANDS
13	22 32 8.86	51.26 N	178.84 E	42.7 F			RAT ISLANDS, ALEUTIAN ISLANDS

NOV 1971	ORIGIN TIME (GMT)	LAT	LONG	DEPTH* (KM)	MB	MS	GEOGRAPHIC REGION
13	23 4 20.06	51.32 N	178.88 E	42.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
15	1 16 .94	51.65 N	178.79 E	78.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
15	5 7 54.73	51.21 N	178.77 E	28.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
15	7 7 46.23	51.09 N	179.46 W	29.8 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
15	9 32 2.20	51.68 N	176.14 W	54.0 T	5.2		ANDREANOF ISLANDS, ALEUTIANS ISLANDS
15	15 45 54.29	52.08 N	179.06 E	163.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
15	15 49 47.07	52.05 N	179.90 E	166.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
15	22 14 36.31	51.30 N	177.59 E	30.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
16	0 53 53.12	51.37 N	179.42 E	53.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
16	1 23 36.00	49.66 N	147.73 E	583.0 T	4.8		SEA OF OKHOTSK
16	3 22 25.77	51.71 N	179.51 W	92.1 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
16	5 29 37.90	51.83 N	176.81 W	84.0 T			ANDREANOF ISLANDS, ALEUTIANS ISLANDS
16	6 47 29.64	51.43 N	178.76 E	45.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
16	7 58 22.74	51.57 N	179.70 W	83.3 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
16	8 27 45.40	31.05 N	138.24 E	421.0 T	4.4		SOUTH OF HONSHU, JAPAN
16	8 43 33.31	51.48 N	179.37 E	62.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
16	11 51 3.06	51.07 N	179.96 W	28.2 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
16	14 37 39.83	51.54 N	179.33 W	0.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
16	14 56 40.56	51.07 N	178.66 E	71.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
16	15 2 7.31	51.07 N	178.99 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
16	15 2 17.28	50.88 N	179.83 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
16	16 17 20.44	52.04 N	178.09 E	134.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
16	18 58 54.20	33.63 S	179.78 W	33.0 T	5.1		SOUTH OF KERMADEC ISLANDS
17	5 28 26.94	51.71 N	178.83 W	81.6 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
17	6 35 55.84	50.20 N	177.71 E	100.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
17	8 59 16.40	52.28 N	170.95 W	33.0 T	4.3		FOX ISLANDS, ALEUTIAN ISLANDS
17	10 37 34.30	52.34 N	179.10 W	222.5 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
17	17 18 21.03	51.68 N	177.89 E	62.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
17	23 56 49.44	51.48 N	179.81 E	58.1 F			RAT ISLANDS, ALEUTIAN ISLANDS
18	0 3 24.64	51.61 N	179.66 W	79.8 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
18	1 47 26.05	51.42 N	178.43 E	40.3 F			RAT ISLANDS, ALEUTIAN ISLANDS

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NOV 1971	ORIGIN TIME (GHT)	LAT	LONG	DEPTH* (KM)	MB	MS	GEOGRAPHIC REGION
18	16 9 34.26	51.58 N	178.72 E	76.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
18	21 6 26.03	51.50 N	179.38 E	61.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
19	1 33 54.30	51.57 N	179.02 E	47.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
19	3 7 2.21	51.94 N	179.19 W	118.2 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
19	4 8 54.62	51.26 N	179.75 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
19	8 2 36.04	51.23 N	178.86 E	40.9 F			RAT ISLANDS, ALEUTIAN ISLANDS
19	13 17 15.16	50.48 N	177.74 E	0.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
20	0 53 59.15	51.06 N	179.47 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
20	3 8 12.49	51.64 N	179.48 E	86.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
20	3 15 21.01	51.96 N	179.00 E	187.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
20	4 3 36.10	51.06 N	179.44 W	21.0 T			DELAROF ISLANDS, ALEUTIAN ISLANDS
20	4 27 8.46	51.20 N	178.54 E	28.1 F			RAT ISLANDS, ALEUTIAN ISLANDS
20	7 28 1.00	23.40 S	179.91 W	551.0 T	6.0		SOUTH OF FIJI ISLANDS
20	13 37 11.89	51.01 N	178.81 E	29.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
20	13 59 4.30	40.28 N	124.44 W	25.0 T	5.0	4.6	NEAR COAST OF NORTHERN CALIF.
20	21 5 49.60	51.74 N	179.96 E	91.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
20	21 13 20.97	51.77 N	179.83 W	92.4 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
20	21 24 42.60	48.76 N	129.52 W	33.0 T	5.5	5.7	VANCOUVER ISLAND REGION
21	0 53 58.95	50.92 N	179.22 E	0.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
21	4 52 26.56	50.36 N	178.87 E	76.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
21	5 57 11.90	11.82 S	166.53 E	115.0 T	6.4		SANTA CRUZ ISLANDS
21	6 19 59.50	11.90 S	166.61 E	110.0 T	5.8		SANTA CRUZ ISLANDS
21	8 30 43.84	51.03 N	179.87 W	18.2 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
21	9 35 42.14	50.53 N	177.27 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
21	12 58 47.62	50.19 N	178.95 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
21	14 37 33.80	52.64 N	173.53 W	207.0 T	3.4		ANDREANOF ISLANDS, ALEUTIAN IS.
21	16 17 25.99	53.52 N	175.14 E	150.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
21	16 46 52.89	51.79 N	179.78 E	184.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
21	17 45 14.86	51.71 N	179.71 E	89.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
21	17 51 44.66	50.99 N	178.45 E	34.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
21	18 0 24.93	51.15 N	178.52 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS

NOV 1971	ORIGIN TIME (GMT)	LAT	LONG	DEPTH* (KM)	MB	MS	GEOGRAPHIC REGION
21	18 14 14.74	50.96 N	178.54 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
21	18 49 40.13	51.67 N	179.71 W	29.4 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
21	19 49 19.95	51.03 N	179.54 W	33.7 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
21	21 10 56.00	51.39 N	176.36 W	54.0 T	4.3		ANDREANOF ISLANDS, ALEUTIANS ISLANDS
22	0 14 39.28	51.79 N	179.54 W	100.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
22	0 46 11.10	52.27 N	174.32 E	43.0 T	5.6	5.5	RAT ISLANDS, ALEUTIAN ISLANDS
22	4 5 37.24	51.05 N	177.63 E	0.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
22	5 49 8.44	52.38 N	177.95 E	114.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
22	5 51 40.31	51.00 N	178.21 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
22	8 19 56.30	.13 N	123.97 E	111.0 T	5.6		NORTHERN CELEBES
22	8 50 34.09	52.23 N	178.24 E	164.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
22	14 33 28.06	51.32 N	178.70 E	61.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
22	16 32 47.31	50.87 N	179.79 W	28.3 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
22	17 33 55.46	51.13 N	179.21 E	28.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
22	18 13 45.87	51.56 N	178.81 E	19.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
22	18 55 4.89	51.42 N	179.70 E	35.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
22	19 32 48.72	51.43 N	178.78 E	43.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
23	2 22 23.00	52.93 N	179.89 W	100.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
23	10 2 .60	51.85 N	176.19 W	68.0 T	4.8		ANDREANOF ISLANDS, ALEUTIANS ISLANDS
23	14 38 9.81	51.04 N	179.22 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
23	17 11 4.59	51.55 N	179.15 E	26.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
23	21 56 49.90	51.33 N	178.53 E	39.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
24	6 41 53.81	51.61 N	179.69 E	74.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
24	12 19 2.27	52.02 N	174.94 E	125.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
24	19 35 29.10	52.90 N	159.19 E	106.0 T	6.3		OFF EAST COAST OF KAMCHATKA
24	22 36 34.90	51.66 N	177.11 W	56.0 T			ANDREANOF ISLANDS, ALEUTIANS ISLANDS
25	6 16 46.05	51.68 N	176.42 E	100.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
25	6 23 18.61	51.57 N	178.79 E	21.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
25	8 42 32.99	51.32 N	178.68 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
25	10 12 47.50	51.02 N	177.93 W	22.0 T	4.2		ANDREANOF ISLANDS, ALEUTIANS ISLANDS
25	10 59 6.40	56.40 N	160.68 W	136.0 T	5.3		ALASKA PENINSULA

NOV 1971	ORIGIN TIME (GMT)	LAT	LONG	DEPTH* (KM)	MB	MS	GEOGRAPHIC REGION
25	16 41 10.28	51.24 N	178.51 E	37.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
25	17 10 44.40	51.72 N	178.69 E	89.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
25	20 36 19.21	51.14 N	179.26 E	36.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
26	3 35 43.65	51.08 N	179.16 E	33.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
26	4 16 24.24	51.48 N	178.67 E	34.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
26	18 55 30.91	51.97 N	179.66 W	146.1 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
26	19 16 52.80	52.09 N	175.74 W	179.0 T			ANDREANOF ISLANDS, ALEUTIANS ISLANDS
26	19 56 6.34	51.92 N	179.59 W	50.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
26	20 54 29.30	52.24 N	172.24 E	52.0 T	4.1		RAT ISLANDS, ALEUTIAN ISLANDS
27	1 4 29.14	51.58 N	178.40 W	0.0 D			DELAROF ISLANDS, ALEUTIAN ISLANDS
27	2 16 50.54	51.20 N	178.70 E	28.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
27	6 28 24.94	51.21 N	172.97 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
27	7 51 32.11	51.23 N	179.45 E	30.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
27	12 27 .24	51.49 N	179.65 E	20.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
27	13 45 11.40	29.19 N	130.11 E	56.0 T	5.5		RYUKYU ISLANDS
27	15 37 17.02	50.13 N	178.29 E	20.0 F			RAT ISLANDS, ALEUTIAN ISLANDS
27	18 24 48.10	18.65 S	178.93 W	489.0 T	4.4		FIJI ISLANDS REGION
28	0 46 11.31	50.77 N	179.44 E	8.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
28	2 41 27.10	51.61 N	179.77 E	60.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
28	5 25 8.12	50.92 N	179.56 E	24.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
28	11 12 .90	29.84 S	69.49 W	105.0 T	5.9		CHILE-ARGENTINA BORDER REGION
28	20 58 5.38	51.55 N	178.51 E	32.1 F			RAT ISLANDS, ALEUTIAN ISLANDS
29	6 2 57.10	49.76 N	78.13 E	0.0 T	5.5		EASTERN KAZAKH SSR
29	11 14 20.00	52.26 N	174.15 E	51.0 T	4.3		RAT ISLANDS, ALEUTIAN ISLANDS
29	13 12 12.40	52.26 N	179.75 E	205.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
29	14 44 27.18	51.40 N	179.16 E	38.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
29	15 4 56.37	51.42 N	179.95 W	55.0 F			DELAROF ISLANDS, ALEUTIAN ISLANDS
29	15 22 2.29	51.47 N	179.95 E	65.9 F			RAT ISLANDS, ALEUTIAN ISLANDS
29	18 18 53.38	51.62 N	179.40 E	21.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
29	20 37 8.87	52.06 N	179.85 E	191.4 F			RAT ISLANDS, ALEUTIAN ISLANDS
29	23 50 53.20	51.13 N	179.00 E	26.3 F			RAT ISLANDS, ALEUTIAN ISLANDS

NOV 1971	ORIGIN TIME (GMT)	LAT	LONG	DEPTH* (KM)	MB	MS	GEOGRAPHIC REGION
30	5 44 29.30	.12 N	122.97 E	108.0 T	5.0		NORTHERN CELEBES
30	6 43 56.50	51.11 N	179.54 E	44.0 T	5.0	4.7	RAT ISLANDS, ALEUTIAN ISLANDS
30	6 47 23.43	50.89 N	179.43 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	6 49 58.12	51.18 N	179.45 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	6 51 4.02	51.18 N	179.44 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	7 2 15.52	51.19 N	179.41 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	7 6 28.00	51.13 N	179.44 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	7 7 3.26	51.12 N	179.50 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	7 10 11.59	51.07 N	179.69 E	43.3 F			RAT ISLANDS, ALEUTIAN ISLANDS
30	7 16 52.71	50.84 N	179.49 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	7 24 26.20	12.56 N	142.79 E	125.0 T	5.2		SOUTH OF MARIANA ISLANDS
30	7 43 58.06	50.97 N	179.48 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	7 45 41.98	50.87 N	179.44 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	7 49 9.60	50.99 N	179.48 E	40.0 T	4.4		RAT ISLANDS, ALEUTIAN ISLANDS
30	8 54 54.34	50.97 N	179.39 E	50.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	9 2 9.49	50.95 N	179.64 E	40.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
30	9 36 51.12	51.16 N	179.43 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	9 43 41.98	51.07 N	179.45 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	10 1 18.90	51.13 N	179.46 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	10 7 14.44	50.90 N	179.44 E	31.6 F			RAT ISLANDS, ALEUTIAN ISLANDS
30	12 54 53.23	51.04 N	179.77 E	46.5 F			RAT ISLANDS, ALEUTIAN ISLANDS
30	13 16 44.26	51.12 N	179.50 E	25.0 D			RAT ISLANDS, ALEUTIAN ISLANDS
30	13 42 18.15	51.87 N	179.33 E	106.2 F			RAT ISLANDS, ALEUTIAN ISLANDS
30	14 17 58.33	50.89 N	179.30 E	50.0 D	4.1		RAT ISLANDS, ALEUTIAN ISLANDS
30	14 33 33.19	51.10 N	178.90 E	37.8 F			RAT ISLANDS, ALEUTIAN ISLANDS
30	14 55 10.71	50.90 N	179.55 E	22.0 F	3.5		RAT ISLANDS, ALEUTIAN ISLANDS
30	14 58 54.38	50.92 N	179.54 E	30.5 F	4.1		RAT ISLANDS, ALEUTIAN ISLANDS
30	16 24 56.82	52.16 N	179.61 E	158.7 F			RAT ISLANDS, ALEUTIAN ISLANDS
30	22 18 49.88	50.91 N	179.46 E	31.8 F			RAT ISLANDS, ALEUTIAN ISLANDS

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

SEISMICITY FIGURES

ALEUTIAN EARTHQUAKES WHICH WERE LOCATED DURING THE MONTH BY THE ALEUTIAN SEISMIC NETWORK AND BY THE WORLD NETWORK OF SEISMOLOGICAL STATIONS REPORTING TO THE ENVIRONMENTAL RESEARCH LABORATORIES (ERL) ARE PLOTTED ON SIX FIGURES COVERING THE ALEUTIAN ISLANDS FROM THE NEAR ISLANDS TO UNIMAK ISLAND (170 DEGREES EAST LONGITUDE TO 160 DEGREES WEST LONGITUDE). 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 PRODUCE THE FIGURES. 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 FIRST FIGURE.

DEPTH OF FOCUS (km)

55.0 ⁺	-175.0	-174.0	-173.0	-172.0	-171.0	-170.0
		+	+	+	+	+55.0

54.5 ⁺						+54.5
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54.0 ⁺						+54.0
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53.5 ⁺						+53.5
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53.0 ⁺						+53.0
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52.5 ⁺		+				+52.5
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52.0 ⁺				*		+52.0
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51.5 ⁺						+51.5
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51.0 ⁺						+51.0
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50.5 ⁺						+50.5
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50.0 ⁺	-175.0	-174.0	-173.0	-172.0	-171.0	+50.0
		+	+	+	+	-170.0

55.0 ⁺	-170.0	-169.0 ⁺	-168.0 ⁺	-167.0 ⁺	-166.0 ⁺	-165.0 ⁺	55.0 ⁺
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54.5 ⁺							54.5 ⁺
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54.0 ⁺							54.0 ⁺
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53.5 ⁺							53.5 ⁺
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53.0 ⁺							53.0 ⁺
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52.5 ⁺							52.5 ⁺
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52.0 ⁺							52.0 ⁺
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51.5 ⁺							51.5 ⁺
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51.0 ⁺							51.0 ⁺
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50.5 ⁺							50.5 ⁺
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50.0 ⁺	-170.0	-169.0 ⁺	-168.0 ⁺	-167.0 ⁺	-166.0 ⁺	-165.0 ⁺	50.0 ⁺
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55.0	-165.0	-164.0	-163.0	-162.0	-161.0	-160.0
						55.0

54.5						54.5
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54.0						54.0
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53.5						53.5
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53.0						53.0
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52.5						52.5
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52.0						52.0
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51.5						51.5
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51.0						51.0
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50.5						50.5
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50.0	-165.0	-164.0	-163.0	-162.0	-161.0	50.0
						-160.0