

INSTITUTE OF SEISMOLOGY
University of Helsinki

PRELIMINARY
SEISMOLOGICAL BULLETIN
1964

Helsinki

INSTITUTE OF SEISMOLOGY
UNIVERSITY OF HELSINKI

PRELIMINARY
SEISMOLOGICAL BULLETIN

1964

Address:

Institute of Seismology
University of Helsinki
Et. Hesperiank. 4
Helsinki
Finland

Stations:

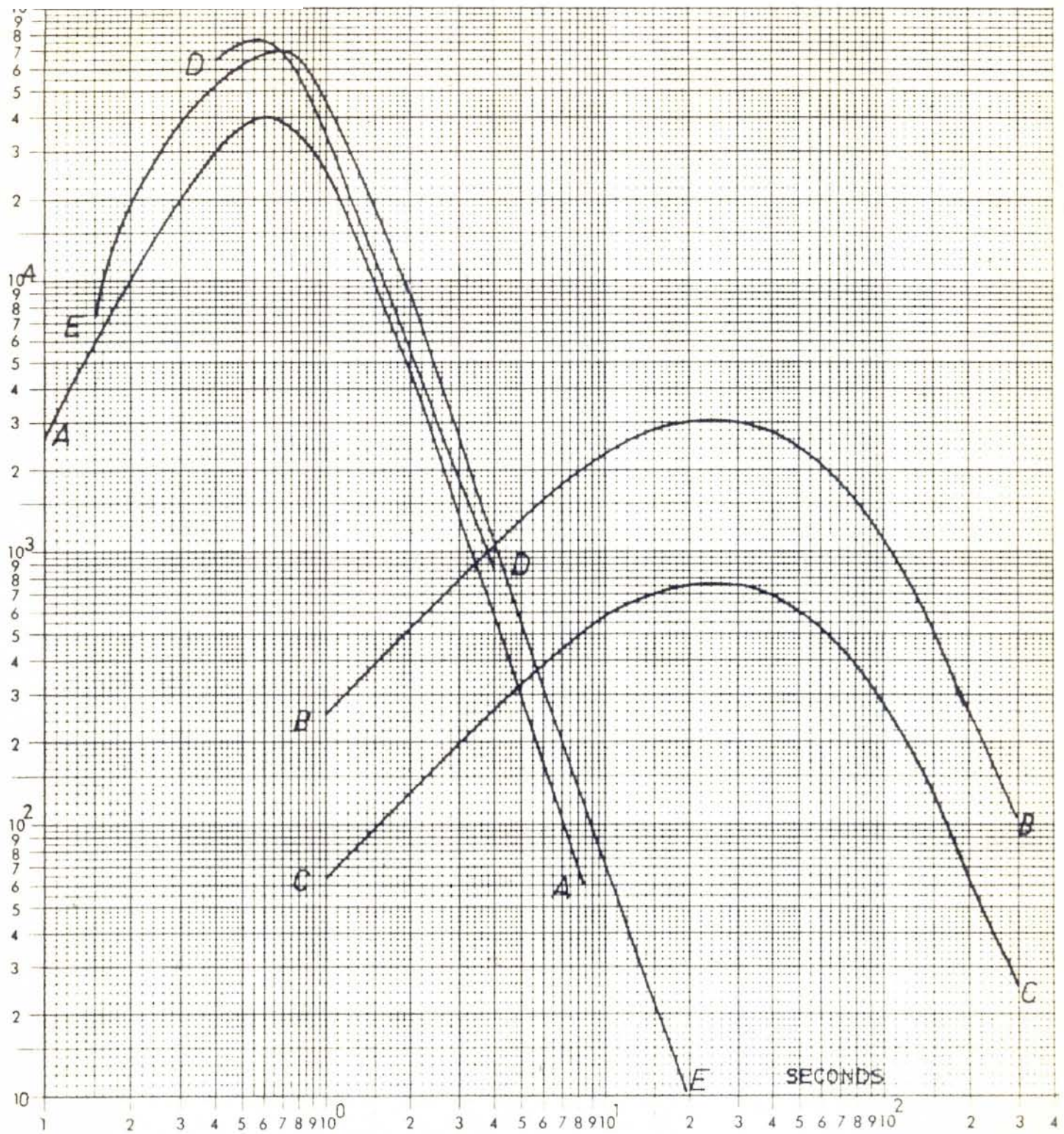
Helsinki	(HEL)	60°10'32"N	24°57'25"E
Nurmijärvi	(NUR)	60°30'32"N	24°39'05"E
Sodankylä	(SOD)	67°22'16"N	26°37'45"E
Kajaani	(KJN)	64.1° N	27.7° E
Kevo	(KEV)	69°45'21"N	27°00'45"E

Unless otherwise stated, the epicentral data are according to the USCGS preliminary determinations.

Direction of earth's movement: U = up, D = down

The maximal center-to-peak ground amplitudes (A) in millimicrons and the corresponding periods (T) in seconds are reported for the P phases. They are read from the short-period vertical seismograms at Nurmijärvi, Kajaani and Kevo. Operation of Helsinki station was discontinued at Jan. 31, 1964.

Seismometer	Instrumental constants			Damp. ratio
	Period sec. Seism.	Galv.	Max. Magn.	
HEL				
Willmore Z	0.65		64 000	3:1
KEV				
Sprengnether Z	30	100	780	Critical
Sprengnether N	30	100	780	Critical
Sprengnether E	30	100	780	Critical
Benioff Z	1.0	0.75	40 000	17:1
Benioff N	1.0	0.75	40 000	17:1
Benioff E	1.0	0.75	40 000	17:1
KJN				
Benioff Portable Z	1.0	0.73	68 000	17:1
Benioff Portable N	1.0	0.76		17:1
Benioff Portable E	1.0	0.76		17:1
NUR				
Sprengnether Z	30	100	3 100	Critical
Sprengnether N	30	100	3 100	Critical
Sprengnether E	30	100	3 100	Critical
Benioff Z	1.0	0.74	40 000	17:1
Benioff N	1.0	0.74	40 000	17:1
Benioff E	1.0	0.74	40 000	17:1
SOD				
Benioff Z	1.0	0.2	77 000	15:1
Nurmia N	0.5	1.1	35 000	3:1
Nurmia E	0.5	1.1	35 000	3:1
Nurmia Z	0.5		60 000	2:1



MAGNIFICATION CURVES

Instruments of the standard stations:

- A-A Short-period seismographs, NUR and KEV
- B-B Long-period seismographs, NUR
- C-C Long-period seismographs, KEV

Other instruments:

- D-D Benioff Z, SOD
- E-E Benioff Z, N, E, KJN (since Jan. 28)

January

				T	A
1	KJN	eP	03 04 49		
1	NUR	eP	05 25 37	0.8	14.4
		e	47		
	SOD	eP	05 25 05		
	KJN	iP	05 25 17.2 D		
		i	26.9		
	H: 05 14 26				
	37.4 N, 142.7 E, 33 km				
	Honshu, Japan				
1	NUR	eP	12 35 44		
	SOD	eP	12 35 38		
	KJN	eP	12 35 36		
	H: 12 21 55.4				
	6.8 S, 129.8 E, 96 km				
	Banda Sea				
1	SOD	ePKP	16 08 52		
	KJN	ePKP	16 08 39		
	H: 15 49 47.9				
	55.9 S, 27.1 W, 33 km				
	Sandwich Islands				
1	HEL	iP	17 37 26.8		
		i	41.6		
		ePcP	58		
	NUR	iP	17 37 25.7 D	0.8	54.7
		i	39.1		
		ePcP	55		
		e	38 15		
		ePP	39 42		
		ePPP	41 46		
		ePcS	42 02		
		eS	46 14		
		ePS	46		
		eSS	50 40		
		eLQ	17 55		
		eLR	17 57.5		
	SOD	iP	17 36 46.4		
	KJN	eP	17 37 02		
		e	13		
	KEV	iP	17 36 34.0	0.9	105.3
		i	50.0		
		ePPP	40 08		
		eS	44 37		
		ePS	45 10		
		eScS	46 20		
		eSS	48 20		
		eLQ	17 52		
		eLR	17 55		
	H: 17 26 43.5				
	45.4 N, 151.9 E, 45 km				
	Kurile Islands				

January

				T	A
1	SOD	eP	21 14 32		
	KJN	iP	21 14 48.0 D		
	H: 21 04 28.5				
	45.5 N, 151.8 E, 40 km				
	Kurile Islands				
1	HEL	eP	22 53 10		
		e	23		
	NUR	iP	22 53 09.0	0.7	19.4
	SOD	eP	22 52 31		
	KJN	eP	22 52 46		
	KEV	eP	22 52 18	0.8	13.8
	H: 22 42 27.0				
	45.5 N, 151.7 E, 45 km				
	Kurile Islands				
1	HEL	eP	23 51 27		
		e	39		
	NUR	eP	23 51 25	0.5	9.2
		e	37		
	SOD	iP	23 50 46.1		
	KJN	eP	23 51 02 U		
	KEV	eP	23 50 34	0.7	17.2
	H: 23 40 44.1				
	45.5 N, 151.9 E, 60 km				
	Kurile Islands				
2	NUR	eP	05 12 06		
	SOD	iP	05 11 20.6 D		
		iPcP	12 22.1		
	KJN	iP	05 11 40.0 U		
		ePcP	12 33		
	KEV	eP	05 11 06	0.8	12.4
	H: 05 01 53.5				
	53.0 N, 159.6 E, 40 km				
	Kamchatka				
2	NUR	eP	05 31 07	0.7	19.1
	SOD	eP	05 30 20		
	KJN	eP	05 30 39		
		i	40.6		
		ePcP	31 36		
	KEV	eP	05 30 05		
	H: 05 21 00.5				
	54.6 N, 161.5 E, 33 km				
	Kamchatka				
2	HEL	eP	17 35 31		
	NUR	iP	17 35 32.0 D	0.6	19.8
	SOD	eP	17 35 48		
	KJN	iP	17 35 32.1 D		
	KEV	eP	17 35 50		
	H: 17 28 35.5				
	36.4 N, 71.1 E, 233 km				
	Hindu Kush				

January

January

				T	A					T	A
3	HEL	iP	16 44 29.5			4	HEL	eP	16 28 03		
	NUR	eP	16 44 30	0.7	18.9		NUR	eP	16 28 03	1.0	27.7
	SOD	iP	16 44 46.2					e	16		
	KJN	iP	16 44 29.5 D				KJN	eP	16 27 39		
		ePP	45 44					e	48		
	KEV	eP	16 44 54	0.8	18.7		H:	16 17 16.5			
	H:	16 37 19.4						44.4 N, 150.8 E, 50 km			
		36.0 N, 71.3 E, 123 km						Kurile Islands			
		Hindu Kush									
3	HEL	eP	17 31 28			4	HEL	eP	16 55 53		
	NUR	iP	17 31 26.7 D	0.9	70.5		NUR	eP	16 55 55	1.1	29.7
		e	47				SOD	eP	16 55 40		
	SOD	iP	17 30 41.1 D				KJN	eP	16 55 41		
		e	31 51				H:	16 44 16.9			
	KJN	iP	17 31 00.3 D					21.7 N, 121.8 E, 33 km			
		e	32 01					South coast of Taiwan			
	KEV	eP	17 30 25	1.0	28.0	5	NUR	eP	09 09 05		
	H:	17 20 54.0					KJN	eP	09 08 50		
		52.8 N, 173.1 E, 33 km					H:	08 57 22.3			
		Rat Islands						32.5 N, 141.7 E, 33 km			
								Honshu, Japan			
3	NUR	eP	18 31 27	0.6	19.5	5	HEL	e	10 31 36		
	KJN	eP	18 31 15				NUR	ePKP	10 31 23	0.9	16.6
3	HEL	ePKP	21 43 13					i	35.7	1.0	35.6
	NUR	ePKP	21 43 09	0.9	31.2			e	41		
		i	18.2				KJN	iPKP	10 31 20.8 D		
		iSKP	46 00.6					e	31		
		ePKS	50					e	40		
	SOD	ePKP	21 43 05				H:	10 11 53.0			
		e	11					26.6 S, 175.7 W, 31 km			
		iSKP	45 40					Kermadec Islands			
	KJN	ePKP	21 42 59			5	HEL	eP	12 10 47		
		i	43 09.5				NUR	eP	12 10 45	0.9	28.2
		eSKP	45 48					i	45.8		
		ePKS	46 38				SOD	eP	12 09 59		
	H:	21 24 56.3					KJN	eP	12 10 21		
		20.4 S, 178.2 W, 520 km					KEV	iP	12 09 42.2	0.8	22.2
		Fiji Islands					H:	12 00 05.0			
								53.8 N, 165.3 W, 63 km			
4	NUR	eP	08 32 22					Fox Islands			
4	HEL	eP	10 50 37			5	NUR	ePSKS	17 00 16		
		e	45					ePPS	03 07		
	NUR	eP	10 50 38	1.0	29.4			eSS	09 41		
		i	41.6					e	10 44		
	SOD	eP	10 50 22					eSSS	15 02		
	KJN	eP	10 50 21					eLQ	17 29		
		i	22.5				KEV	eSS	17 10 04		
	KEV	eP	10 50 17					eLR	17 35		
	H:	10 38 58.8					H:	16 25 52.6			
		21.6 N, 121.8 E, 33 km						61.4 S, 154.9 E, 33 km			
		South coast of Taiwan						Macquarie Island region			

January				T	A	January				T	A
KEV	eP	23 54 50		0.5	8.0	8	NUR	eP	10 14 17		
	ePP	56 48					SOD	eP	10 13 47		
	ePPP	58 10					KJN	eP	10 14 04		
	eS	24 02 18					H: 10 04 31.6				
	e	03 04					46.1 N, 77.7 W, 33 km				
	eLQ	24 09.2					Ontario-Quebec border				
	eLR	24 11:2									
H: 23 45 23.4						8	NUR	eP	13 53 18	0.8	14.3
50.9 N, 157.3 E, 33 km							H: 13 42 41.3				
Southern Kamchatka							52.3 N, 173.5 E, 33 km				
7	KJN	ePKP	02 33 07			8	HEL	iP	22 44 06.0		
H: 02 15 00:6							NUR	eP	22 44 06	0.6	6.2
18.0 S, 178.0 W, 593 km							eSSS 23 05 52				
Fiji Islands							eLQ 23 12				
7	HEL	eP	03 02 45				SOD	eP	22 44 01		
	NUR	eP	03 02 43	1.1	33.3		KJN	iP	22 43 59.2 D		
	e	53					i	44 01.3			
	KJN	eP	03 02 33				H: 22 30 49.7				
							3.7 S, 119.4 E, 90 km				
							Celebes				
7	SOD	eP	05 00 11			9	NUR	eP	02 06 46	0.9	14.9
	KJN	eP	05 00 08								
	i	11.4				9	HEL	eP	03 10 05		
H: 04 50 37							i	26.0			
29.8 N, 98.7 E, 46 km							NUR	eP	03 10 04	0.6	16.1
Eastern Tibet							e	23	0.9	19.9	
7	NUR	eP	08 57 24	1.0	22.0		SOD	eP	03 09 30		
	SOD	eP	08 56 38				KJN	iP	03 09 43.0 U		
	KJN	eP	08 57 00				i	47.2			
	KEV	iP	08 56 21.2 D	0.7	27.7		i	57.3			
H: 08 46 48.0							ePP	11 56			
54.0 N, 165.5 W, 80 km							KEV	eP	03 09 20	0.8	25.2
Fox Islands							e	53			
							e	10 29	1.0	36.9	
							H: 02 59 21.6				
							41.7 N, 141.9 E, 50 km				
							Hokkaido, Japan				
7	SOD	eP	20 11 54			9	HEL	eP	18 42 35		
	KJN	eP	20 11 38				NUR	eP	18 42 32	0.6	39.7
H: 20 04 36							iPcP 43 05.0 1.0 59.4				
39.3 N, 73.8 E, 33 km							ePP 45 00				
Tadzhik S.S.R.							ePPP 46 22				
7	NUR	eP	21 04 49	0.9	13.3		e 47 00				
	SOD	iP	21 04 52.1 U				eS 51 14				
	KJN	eP	21 04 47.2 U				e 54 42				
	KEV	eP	21 04 54				e 55 52				
H: 20 52 04.9							eLQ 19 00				
4.6 S, 103.3 E, 89 km											
Sumatra											

cont.

January

January

				T	A	
SOD	eP	18 41 54				
	i	56.7				
KJN	iP	18 42 10.2 D				
	i	23.5				
KEV	eP	18 41 47	1.1	51.2		
	i	42 34.7	1.0	88.2		
	e	43 30				
	ePPP	45 18				
	e(S)	49 36				
	ePS	50 00				
	eScS	51 44				
	eLQ	18 56				
H: 18 31 52.4						
45.5 N, 150.9 E, 40 km						
Kurile Islands						
9	KJN	ePKP 22 07 00				
H: 21 47 09						
42.6 S, 174.8 E, 61 km						
South Island						
9	NUR	eP 23 34 18				
10	NUR	eP 00 06 15				
10	HEL	iP 05 01 39.6				
	i	56.7				
	ePcP	02 13				
NUR	iP	05 01 38.0 U	0.8	286.0		
	i	48.8				
	i	02 03.0				
	ePP	04 12				
	ePPP	05 48				
	eS	10 22				
SOD	eP	05 01 02 U				
KJN	iP	05 01 15.7 U				
KEV	iP	05 00 50.3 U	0.7	199.5		
	i	01 11.6				
	ePPP	04 28				
	eS	08 44				
	ePS	09 04				
	e	22				
	eSS	13 04				
	eLQ	05 16				
	eLR	05 18				
H: 04 50 53.4						
42.0 N, 142.6 E, 33 km						
Hokkaido, Japan						

				T	A	
10	HEL	eP 11 03 29				
	NUR	eP 11 03 28	0.8	17.2		
	KJN	eP 11 03 05				
H: 10 52 45.6						
44.8 N, 149.6 E, 33 km						
Kurile Islands						
10	KJN	eP 11 06 54				
H: 11 56 33.4						
44.1 N, 150.8 E, 58 km						
Kurile Islands						
10	HEL	eP 17 08 06				
	NUR	eP 17 08 04	0.5	14.3		
	ePcP	36				
	eScS	17 46				
	eSS	21 10				
	eLQ	17 25				
SOD	eP	17 07 24				
	i	45.2				
KJN	eP	17 07 42				
	i	08 44.1				
KEV	eP	17 07 13				
	eLQ	17 21.7				
H: 16 57 26.5						
45.4 N, 150.0 E, 50 km						
Kurile Islands						
10	KJN	eP 19 35 02				
H: 19 21 58						
2.8 N, 127.0 E, 33 km						
Molucca Sea						
10	NUR	eP 19 48 11	0.9	11.6		
10	KJN	eP 22 06 26				
H: 21 52 47.6						
6.9 S, 129.4 E, 117 km						
Banda Sea						
11	NUR	eP 02 29 06	1.0	29.4		
11	KJN	eP 10 35 58				
H: 10 23 10.9						
11.4 S, 90.9 E, 33 km						
Indian Ocean						
11	NUR	eP 10 42 59				
11	NUR	eP 16 50 39	1.0	21.8		

January					January				
			T	A			T	A	
12	HEL	iP	06 11	01.2					
	NUR	iP	06 10	59.0 D					
		i	11	04.9					
		iPcP		34.0					
		eS	19	42					
		ePPS	20	32					
		eSS	24	00					
		eLQ	06	28					
		eLR	06	32					
	SOD	eP	06 10	14					
	KJN	eP	06 10	34					
		iPcP	11	25.3					
		eP'P'	39	36					
	KEV	iP	06 09	56.6	0.7	27.0			
		e	10	38					
		eS	17	45					
		eScS	19	34					
		eLQ	06	24					
		H:	06 00	13.2					
			53.2 N,	166.3 W,					
				33 km					
				Fox Islands					
12	HEL	eP	12 52	20					
	NUR	eP	12 52	21	1.0	29.7			
		e		56					
		ePP	53	41					
		eS	57	41					
	SOD	eP	12 53	01					
		i		07.2					
		ePP	54	34					
	KJN	iP	12 52	40.2 U					
	KEV	iP	12 53	25.2 U	1.0	63.3			
		ePP	54	56					
		H:	12 45	51.1					
			31.5 N,	49.4 E,					
				67 km					
				Western Iran					
13	HEL	ePKP	06 24	21					
	NUR	iPKP	06 24	20.0 D	0.8	29.6			
		H:	06 04	48.2					
			28.7 S,	178.0 W,					
				33 km					
				Kermadec Islands					
13	NUR	eP	21 03	52	1.0	17.6			
13	NUR	eP	21 14	41					
14	NUR	eP	00 41	27					
14	NUR	eP	01 21	24	0.8	12.7			
	SOD	eP	01 20	39					
	KJN	eP	01 20	58					
		H:	01 11	12.6					
			52.9 N,	159.6 E,					
				50 km					
				Kamchatka					
14	NUR	eP	03 46	05					
	KJN	eP	03 45	29					
14	NUR	ePKP	04 37	18	0.8	11.3			
		H:	04 17	50.5					
			28.8 S,	176.2 W,					
				89 km					
				Kermadec Islands					
14	KJN	eP	08 36	51					
		H:	08 24	47					
			3.1 S,	104.5 E,					
				344 km					
				Sumatra					
14	NUR	eP	09 02	34	0.5	35.6			
		esP	05	33					
	KJN	eP	09 02	11					
	KEV	eP	09 01	44	0.4	16.9			
		H:	08 53	09.9					
			47.9 N,	145.6 E,					
				565 km					
				Sea of Okhotsk					
14	NUR	iPKP	10 39	20.0	0.6	20.6			
		H:	10 20	10.3					
			28.1 S,	178.1 W,					
				195 km					
				Kermadec Islands					
14	NUR	eP	12 49	21					
14	NUR	eP	15 18	42					
	KJN	eP	15 18	36					
		H:	15 06	35.3					
			13.6 N,	120.5 E,					
				44 km					
				Northwestern Mindanao					
14	NUR	eSKKS	16 04	04					
		eSP	06	28					
		eSS	12	22					
		eLQ	16	25					
		eLR	16	31					
		H:	15 38	13.8					
			5.2 S,	150.8 E,					
				169 km					
				New Britain					
14	NUR	eP	17 45	15					
15	NUR	eP	02 34	27					
		H:	02 23	47.4					
			45.3 N,	150.6 E,					
				45 km					
				Kurile Islands					
15	KJN	eP	06 14	42					
15	KJN	eP	07 47	41					
15	KJN	eP	09 00	35					

January

January

			T	A
	KJN	iP	14 57 12.6 D	
	KEV	iP	14 57 07.1 D	0.5 20.7
	H: 14 45 39.4			
	20.6 N, 122.1 E, 18 km			
	Batan Islands			
18	KJN	ePKP	19 03 27	
	H: 18 44 05.0			
	25.1 S, 176.9 W, 33 km			
	Kermadec Islands region			
18	HEL	iP	22 47 56.2	
		epP	48 22	
	NUR	iP	22 47 54.8	1.1 72.9
		epP	48 20	
		eS	57 30	
	SOD	iP	22 47 51.0 U	
		epP	48 17	
	KJN	iP	22 47 57.9 U	
		ipP	48 23.8	
	KEV	iP	22 47 48.5	1.0 69.6
	H: 22 36 17.6			
	18.8 N, 69.4 W, 95 km			
	Dominican Republic			
19	HEL	ePKP	07 08 53	
	NUR	ePKP	07 08 53	
		ePKS	12 20	
	SOD	ePKP	07 09 05	
	KJN	iPKP	07 09 01.1 D	
	H: 06 49 55.9			
	58.6 S, 25.1 W, 33 km			
	Sandwich Islands			
19	HEL	eP	08 58 48	
	SOD	eP	08 58 34	
	KJN	eP	08 58 35	
	H: 08 47 10			
	21.8 N, 120.9 E, 18 km			
	South coast of Taiwan			
19	HEL	iP	09 21 16.9	
	NUR	eP	09 21 19	1.0 110.9
		i	23.0	
		ePP	22 57	
		eS	27 18	
	SOD	iP	09 21 58.9 U	
		ePP	23 37	
		ePPP	24 14	
	cont.			

			T	A
	KJN	iP	09 21 33.8 U	
		i	37.5	
		e	51	
		ePP	23 09	
		eS	27 41	
	KEV	iP	09 22 13.7 U	1.0 242.7
		i	17.8	
		eS	29 08	
		eSS	32 18	
		eLR	09 36	
	H: 09 13 53.5			
	26.9 N, 54.0 E, 33 km			
	Southern Iran			
19	SOD	eP	16 24 02	
	KJN	eP	16 24 04	
	H: 16 12 50.0			
	23.0 N, 120.4 E, 33 km			
	Taiwan			
19	KJN	ePKP	23 41 17	
	H: 23 22 19.1			
	18.3 S, 176.9 W, 48 km			
	Fiji Islands			
20	HEL	iPKP	00 35 24.1	
	NUR	iPKP	00 35 23.3	0.6 31.3
		i	27.5	0.7 41.3
	KJN	iPKP	00 35 24.1	
	H: 00 15 48.4			
	30.2 S, 177.8 W, 35 km			
	Kermadec Islands			
20	HEL	iP	04 59 42.1	
	NUR	iP	04 59 41.8	0.7 20.6
	SOD	eP	04 59 28	
	KJN	eP	04 59 31	
	KEV	eP	04 59 27	
	H: 04 46 59.7			
	8.2 N, 126.6 E, 110 km			
	East coast of Mindanao			
20	HEL	eP	15 51 14	
	NUR	eP	15 51 16	1.0 26.0
	SOD	eP	15 51 00	
	H: 15 39 41.5			
	23.2 N, 120.3 E, 49 km			
	Taiwan			

January				T	A	January				T	A	
20	HEL	ePKP	17 27 31			SOD	ePKP	23 25 42				
		i	37.1			KJN	ePKP	23 25 49				
		eSKP	30 52			H: 23 06 26.2						
	NUR	ePKP	17 27 25	1.0	10.0	30.0 S, 177.9 W, 44 km						
		i	36.2	1.0	240.0	Kermadec Islands						
		ipPKP	28 15.0			21	NUR	eP	22 30 50			
		epPP	30 36				SOD	eP	22 30 39			
		iSKP	51.0				KJN	eP	22 30 37			
		iPKS	31 08.0			H: 22 18 13.0						
		epPKS	40			10.6 N, 125.3 E, 53 km						
		e	32 26			Near coast of Leyte						
		eSKKS	36 40			22	SOD	eP	04 10 48			
		eSKSP	39 58					eS	13 02			
		eSKKP	40 09				KJN	eP	04 11 30			
		eSPP	41 49					eS	14 18			
		e	43 04					e	44			
		eSS	47 27				KEV	eP	04 10 17	0.6	7.7	
		eSSS	52 34					eS	12 06			
		eLQ	18 03			22	HEL	ePKP	07 05 59			
	SOD	iPKP	17 27 26.0				NUR	iPKP	07 05 58.0 D	0.6	25.0	
		eSKP	30 30			H: 06 46 36.4						
	KJN	ePKP	17 27 21			30.6 S, 178.0 W, 166 km						
		e	29			Kermadec Islands						
		i	36.0			22	HEL	eP	16 08 48			
		epPP	29 52				NUR	iP	16 08 48.3 D	1.1	254.7	
		iSKP	30 38.9					i	09 18.0			
		ePKS	52					eS	17 14			
		e	38 40					eSS	21 26			
		eSKKP	40 01					eLQ	16 24			
		e	32				SOD	iP	16 08 49.9 D			
	KEV	iPKP	17 27 22.7	1.0	303.8			i	09 06.1			
		epPP	29 40				KJN	eP	16 08 42			
		eSKP	30 20					e	09 04			
		ePKS	36				KEV	iP	16 08 54.0 D	0.9	220.2	
		epPKS	31 11					e	09 10			
		eSKS	33 56					eLR	16 28.1			
		eSKKS	36 00			H: 15 58 46.5						
		e	37 50			22.4 N, 93.6 E, 88 km						
		eSS	46 12			Burma						
	H: 17 08 37.4											
	20.7 S, 169.9 E, 141 km											
	Loyalty Islands region											
20	SOD	eP	20 49 49			22	SOD	eP	18 10 34			
	KJN	iP	20 49 51.2 U				KJN	iP	18 10 43.3 U			
	H: 20 38 16.5											
	18.8 N, 120.7 E, 53 km											
	North coast of Luzon											
20	HEL	iPKP	23 26 00.8			22	SOD	eP	18 10 34			
	NUR	ePKP	23 26 00			H: 17 58 16.3						
	cont.											
	20.2 N, 147.1 E, 39 km											
	Mariana Islands											

January

January

		T	A			T	A		
22	KJN eP 19 01 04 H: 18 48 30.9 7.6 N, 126.9 E, 144 km East coast of Mindanao			23	NUR eP 13 54 54 KJN iP 13 54 36.4 U H: 13 43 46.7 28.7 N, 139.4 E, 417 km Bonin Islands				
22	KJN eP 21 51 14 H: 21 40 37 50.5 N, 173.5 W, 33 km Andreanof Islands			23	HEL eP 15 26 45 NUR eP 15 26 46 ePP 28 13 SOD eP 15 27 02 KJN iP 15 26 46.2 KEV eP 15 27 10 H: 15 19 31.6 36.9 N, 71.2 E, 28 km Hindu Kush	0.8	11.3		
23	HEL ePKP 00 18 43 NUR iP KP 00 18 42.5 i 54.0 ePP 20 34 ePKS 21 54 e 26 24 ePS 30 24 e 33 06 eSS 37 30 e 38 10 eSSS 41 38 eLQ 00 51 SOD ePKP 00 18 33 ePKKP 28 41 KJN ePKP 00 18 36 ePKKP 28 35 KEV ePKP 00 18 29 ePP 19 44 ePS 29 30 ePPS 30 48 e 33 20 eSS 36 06 eLQ 00 48.5 H: 23 59 43.6 13.7 S, 165.9 E, 33 km New Hebrides Islands	0.8	15.5			0.8	39.5		
				23	HEL eP 16 21 22 NUR eP 16 21 22 KJN iP 16 21 11.7 H: 16 08 55.5 11.5 N, 122.5 E, 47 km Panay Island				
				24	HEL iP 17 27 25.8 epP 29 19 NUR iP 17 27 24.0 D e 28 08 epP 29 17 eS 35 13 eScS 36 17 SOD iP 17 26 57.0 D epP 28 49 ePP 29 08 eS 34 24 eScS 35 44 KJN iP 17 27 05.3 D epP 28 58 eS 34 38 eScS 35 53 KEV iP 17 26 49.0 D e 28 18 epP 42 ePP 29 05 eScS 35 37 H: 17 17 45.5 38.7 N, 129.4 E, 542 km East coast of Korea			0.8	230.2
23	NUR eP 05 28 13 SOD eP 05 27 47 H: 05 17 26.1 30.6 N, 137.3 E, 478 km Honshu, Japan	0.6	6.1						
23	SOD eP 09 22 21 KJN eP 09 22 40 H: 09 12 54 53.6 N, 158.2 E, 33 km Kamchatka								
23	KJN eP 10 16 01 H: 10 03 22 17.8 N, 147.0 E, 33 km Mariana Islands			24	KJN ePKP 20 11 46 i 59.5 H: 19 53 25.7 17.8 S, 178.5 W, 584 km Fiji Islands				
						0.8	256.0		

January				January			
		T	A			T	A
24	KJN ePKP	21 31 40			KEV ePKP	09 27 48	
	H:	21 12 23.2			eSKS	34 15	
		21.7 S, 176.2 W, 32 km			eSKKS	35 07	
		Tonga Islands			eS	44	
24	HEL eP	21 42 12			ePS	37 26	
	NUR eP	21 42 11	0.9	19.9	ePPS	38 19	
	SOD eP	21 41 32			eSS	43 20	
	KJN iP	21 41 48.3 D			H:	09 09 33.9	
	H:	21 31 24.2				16.3 S, 71.7 W, 116 km	
		44.5 N, 150.3 E, 33 km				Southern Peru	
		Kurile Islands			26	HEL iP	10 13 42.2
24	HEL eP	22 57 00			NUR eP	10 13 42	0.8 15.5
	NUR eP	22 57 01	0.7	22.9	SOD eP	10 13 27	
	SOD eP	22 57 03			KJN iP	10 13 28.7 D	
	KJN eP	22 56 57			H:	10 02 15.0	
	H:	22 44 01				23.1 N, 120.4 E, 37 km	
		7.1 S, 106.0 E, 94 km				Taiwan	
		South coast of Java			26	SOD eP	12 15 57
25	NUR ePKP	12 28 42	0.7	14.2	KJN iP	12 16 07.2 D	
	H:	12 09 08.8			H:	12 05 54.3	
		28.3 S, 176.5 W, 17 km				40.8 N, 140.1 E, 160 km	
		Kermadec Islands				Honshu, Japan	
25	KJN ePKP	23 25 39			27	HEL eP	01 23 24
	H:	23 07 29.3			NUR eP	01 23 25	
		20.8 S, 178.8 W, 580 km			eS	32 24	
		Fiji Islands			e	39 32	
26	NUR eP	09 23 47			eLQ	01 42.2	
	e	26 52			eLR	01 44.2	
	ePP	28 04			SOD eP	01 23 57	
	epPP	34			i	24 06.5	
	eSKS	34 06			KEV eP	01 24 09	1.2 62.7
	eSKKS	54			H:	01 12 23.5	
	eS	35 40				00.0, 17.9 W, 33 km	
	ePS	37 00				Mid-Atlantic Ocean	
	ePPS	38 10			29	NUR ePPS	06 13 20
	eSS	42 52				eSS	18 30
	eLQ	09 53.8				eSSS	22 30
	eLR	10 00				e	25 38
SOD	ePKP	09 27 44				eLQ	06 29
	ePP	28 12			KEV	ePS	06 11 28
KJN	eP	09 23 49				eSS	17 26
	e	27 25				eSSS	21 40
	ePKP	35			H:	05 43 22.1	
	ePP	28 14				6.3 S, 148.7 E, 33 km	
	eSKS	34 15				New Britain region	
	ePKKP	38 57					

cont.

January						January			
				T	A				
28	SOD	eP	09 12 12			30	SOD	iP	17 32 12.1
	H:	09 00 46.9					KJN	eP	17 32 19
		21.7 N, 121.6 E, 33 km					H:	17 20 13.4	1.1 16.8
		Taiwan						23.4 N, 143.3 E, 33 km	
								Volcano Islands	
28	HEL	iP	14 16 13.2			30	HEL	iP	17 50 57.3
	NUR	iP	14 16 15.0 U	0.8	2898.0		i	51 11.4	
		ipP	56.0				NUR	iP	17 51 00.5 U
		esP	17 14				i	20.3	1.0 49.5
		epPP	18 31				eS	55 16	
		eS	21 48				eLQ	17 56	
		esS	22 56				eLR	17 57	
	SOD	iP	14 16 30.8 U				SOD	iP	17 52 02.1
	KEV	iP	14 16 39.4	0.8	1656.0		KJN	iP	17 51 32.7 U
		epP	17 22				e	57	1.2 61.2
		esP	43				KEV	iP	17 52 22.9
		epPP	18 51				H:	17 45 54.6	0.9 40.8
		eS	22 32					37.3 N, 29.9 E, 41 km	
		esS	23 38					Turkey	
		eLR	14 25						
	H:	14 09 17.1				31	SOD	eP	00 22 30
		36.5 N, 70.9 E, 207 km					KJN	eP	00 22 06
		Hindu Kush					H:	00 14 58.4	
								36.3 N, 71.4 E, 127 km	
28	SOD	eP	20 15 19					NE Afghanistan	
28	KJN	iP	21 48 27.0	0.7	8.7				
29	HEL	eP	09 00 29			31	SOD	eP	04 26 12
	NUR	eP	09 00 28	1.0	42.0		KJN	eP	04 26 44
	SOD	iP	09 00 18.4				H:	04 17 12.4	
	H:	08 47 30						61.5 N, 151.9 W, 33 km	
		3.0 N, 125.7 E, 133 km						Southern Alaska	
		Celebes Sea				31	NUR	eP	09 28 20
							H:	09 23 21	0.7 11.6
29	HEL	eP	22 43 06					37.5 N, 23.2 E, 75 km	
	NUR	eP	22 43 03	0.8	18.3			Southern Greece	
	SOD	eP	22 42 29			31	SOD	eP	17 07 31
	KJN	eP	22 42 42	1.0	14.7				
	H:	22 32 20.9							
		41.7 N, 141.9 E, 56 km							
		Hokkaido, Japan							
30	SOD	eP	12 51 30						
	H:	12 39 23.8							
		1.7 N, 99.6 E, 133 km							
		Northern Sumatra							

November 9, 1964

M. T. Porkka
Aili Huovila

February				T	A	February				T	A	
1	NUR	iP	01 58 44.8	0.8	23.4	SOD	eP	09 05 58				
		epP	55				i	06 02.5				
		eLQ	02 16			KJN	eP	09 06 02	0.8	9.5		
	SOD	iP	01 57 59.6				i	06.1				
	KJN	iP	01 58 20.6	0.8	15.8	KEV	eP	09 05 54				
		ipP	31.4				i	58.8	0.8	25.2		
	KEV	iP	01 57 42.7	0.7	15.6		eS	15 05				
		eLQ	02 12				eSS	19 50				
		eLR	02 15				eSSS	22 55				
	H: 01 47 52.1					H: 08 54 48.3						
	51.8 N, 170.8 W, 34 km					24.2 N, 122.6 E, 28 km						
	Fox Islands					East coast of Taiwan						
1	NUR	eP	02 45 03			3	SOD	iP	19 04 35.1			
	SOD	eP	02 44 29				H: 18 54 49					
	KJN	eP	02 44 42	1.0	16.4		49.6 N, 156.7 E, 40 km					
		i	52.9				Kurile Islands					
	H: 02 34 06.0					3	SOD	eP	21 14 55			
	40.7 N, 145.0 E, 34 km						H: 21 04 10					
	Hokkaido, Japan						34.6 N, 136.3 E, 47 km					
1	NUR	eP	09 31 59				Honshu, Japan					
	SOD	eP	09 31 33			4	NUR	eP	10 12 53	0.7	14.0	
	KJN	iP	09 31 40.9	0.7	7.6		SOD	eP	10 12 12			
	KEV	eP	09 31 25	0.9	20.4		KJN	eP	10 12 29	0.7	4.0	
	H: 09 20 04.3						H: 10 02 21.4					
	27.5 N, 141.4 E, 69 km						48.2 N, 154.4 E, 40 km					
	Bonin Islands						Kurile Islands					
1	NUR	eP	11 37 38	1.0	18.5							
	SOD	iP	11 37 42.0			4	NUR	eP	13 32 49	0.9	16.6	
	KJN	eP	11 37 33				KJN	eP	13 33 37	0.7	5.8	
	H: 11 28 19.4											
	27.4 N, 87.8 E, 33 km					5	NUR	eP	09 44 50	0.8	7.2	
	Eastern Nepal											
1	SOD	eP	23 04 42			5	NUR	eP	10 29 40	0.8	11.9	
	KJN	eP	23 04 57	0.8	4.0		KJN	eP	10 30 00	1.0	17.4	
	H: 22 53 15.0											
	19.4 N, 66.3 W, 37 km					5	NUR	iPKP	11 37 41.5	1.0	31.7	
	Puerto Rico						H: 11 18 16.3					
							30.4 S, 177.9 W, 114 km					
							Kermadec Islands					
2	NUR	eP	06 32 13			5	NUR	eP	11 41 25			
	KJN	eP	06 32 40	0.9	5.5		i	26.0 D	0.9	74.7		
							i	43.7				
2	NUR	eP	09 06 19	0.9	18.9		i	42 03.9				
		eS	15 34				ePP	44 12				
		eScS	16 30				e	20				
		eSS	21 03				eS	50 32				
		eLQ	09 25									
		eLR	09 28									

cont.

cont.

February

February

				T	A					T	A		
SOD	iP	11 40	55.2										
	i		41 08.3										
	ePcP		36										
KJN	eP	11 41	04	0.6	24.3								
	i		05.4										
KEV	eP	11 40	45	1.0	29.9								
	eS		49 16										
	eSS		53 28										
	eLQ	11 56											
	eLR	11 59											
H: 11 30 15.7						H: 13 07 25.2							
36.5 N, 141.0 E, 46 km						55.7 N, 155.8 W, 33 km							
Honshu, Japan						Kodiak Island region							
5	NUR	iPKP	11 53 49.5	1.0	29.7	6	NUR	iP	13 24 17.2 U	1.0	300.0		
		eSKP	56 39					ipP	25.8				
	SOD	iSKP	11 56 17.7					ePcP	57				
	KJN	ePKP	11 53 31					eS	32 54				
		e	43				SOD	iP	13 23 30.1				
		i	44.9					eS	31 34				
		eSKP	56 26				KJN	iP	13 23 52.0	1.1	86.4		
	KEV	ePKP	11 53 34				KEV	iP	13 23 12.8 U	0.9	167.0		
H: 11 35 18.6						H: 13 13 45.2							
19.7 S, 179.8 W, 414 km						55.8 N, 155.9 W, 33 km							
Fiji Islands						Kodiak Island region							
5	SOD	eP	23 17 37			6	NUR	eS	19 30 12				
		eS	19 30					e	33 47				
	KJN	e(P)	23 18 23				SOD	iP	19 20 18.7				
		e(S)	20 50				KJN	iP	19 20 22.6	0.9	34.8		
	KEV	eP	23 17 08				KEV	eP	19 20 11				
		eS	18 37			H: 19 08 57.8							
6	KJN	eP	07 54 06			24.0 N, 126.4 E, 33 km							
H: 07 43 40.4						Ryukyu Islands region							
52.2 N, 171.2 W, 33 km						6	NUR	eP	19 23 11				
Fox Islands							SOD	eP	19 23 04				
6	NUR	iP	13 17 57.8 D	1.0	180.0		KJN	iP	19 23 08.2	1.0	29.4		
		i	18 00.0	1.0	560.0								
		e	06.4			6	NUR	iPKP	20 52 37.0	1.0	50.0		
		e	20 50				KJN	iPKP	20 52 27.4	1.1	71.6		
		ePPP	21 48			H: 20 32 54.9							
		eS	26 36			33.5 S, 178.4 W, 33 km							
		e	46			Kermadec Islands							
		eScS	27 54			7	NUR	iP	00 21 12.0	0.7	7.7		
SOD	iP	13 17	10.5				SOD	eP	00 20 26				
	iS		25 08.0				KEV	eP	00 20 07				
	eScS		27 04			H: 00 10 43							
KJN	iP	13 17	33.6			56.0 N, 155.5 W, 33 km							
			cont.			Kodiak Island region							

February

February

				T	A					T	A		
7	NUR	e(P)	01 59 11			KJN	iP	06 34 37.7	1.1	22.4			
		eS	02 02 07					H: 06 28 25.9					
	SOD	iP	01 57 32.5					36.8 N, 50.3 E, 33 km					
		eS	59 23					Northern Iran					
	KJN	eP	01 58 17	0.6	7.6								
		iS	02 00 47			8	NUR	eP	10 08 43	0.5	7.7		
		i	02 05:1					i	54.8				
	KEV	eP	01 57 02				SOD	eP	10 08 31				
		iS	58 32.0				KJN	iP	10 08 32.6	0.8	22.1		
								i	44.4				
7	NUR	eP	08 45 57	0.9	15.1		KEV	iP	10 08 28.0	0.6	10.2		
	SOD	eP	08 45 31					H: 09 55 59.9					
	KJN	eP	08 45 33	0.8	5.5			9.2 N, 126.2 E, 57 km					
		i	42:1					Mindanao, Philippines					
			H: 08 34 09.6				8	NUR	eP	10 47 43	1.0	21.6	
			23.8 N, 126.4 E, 45 km					KEV	eP	10 47 01			
			Ryukyu Islands				8	NUR	eP	10 59 24	0.6	14.6	
7	NUR	eP	11 59 10										
7	NUR	iP	13 09 48.8 U	1.0	63.4	8	NUR	iP	11 28 21.0	1.0	215.6		
		eS	18 54					i	22.0 U				
		eSS	23 14					i	36.0				
		eLQ	13 27.5					i	44.5				
		eLR	13 30.6					eLQ	11 45				
	SOD	iP	13 09 15.9					eLR	11 48				
		i	26.1				SOD	iP	11 27 36.3				
	KJN	iP	13 09 27.6	1.2	265.4			i	49.6				
		i	38.8				KJN	iP	11 27 56.2	1.0	134.1		
		ePP	11 47					i	28 10.8				
	KEV	iP	13 09 05.2	1.0	85.7		KEV	iP	11 27 20.0	0.6	39.7		
		i	16.5					i	35.0				
			H: 12 58 53.6					eLR	11 44.0				
			39.8 N, 142.8 E, 45 km					H: 11 17 46.5					
			Honshu, Japan					52.3 N, 175.6 E, 60 km					
								Rat Islands					
7	NUR	eP	15 05 53			8	NUR	eP	11 51 27				
	KJN	eP	15 05 37	0.6	5.1		KJN	eP	11 51 38	1.4	42.0		
7	SOD	iP	21 49 42.2										
	KJN	iP	21 49 46.3	0.8	18.6		8	NUR	iP	12 03 11.4			
	KEV	eP	21 49 36	0.9	18.8			SOD	eP	12 03 19			
			H: 21 38 22.1					KEV	eP	12 03 25			
			23.8 N, 126.5 E, 45 km					H: 11 54 23.1					
			Ryukyu Islands					29.0 N, 82.2 E, 33 km					
								Nepal					
8	NUR	iP	06 34 22.8	0.6	9.8								
		i	28.0				8	NUR	iP	21 39 01.0			
	SOD	eP	06 34 54					i	06.4				
		e	35 03				KJN	eP	21 38 52	0.9	10.1		
			cont.					i	56.5				

February

February

				T	A					T	A
9	NUR	ePKP	02 18 15			10	NUR	eP	22 19 08		
		i	27.9				SOD	eP	22 19 26		
		iSKP	21 09.0				KJN	eP	22 19 08		
		iPKS	55.0				H:	22 12 21.0			
	SOD	iPKP	02 18 13.8					38.7 N, 68.3 E, 46 km			
		eSKP	20 46.1					Tadzhik, S.S.R.			
	KJN	ePKP	02 18 12	1.0	9.8						
		i	19.3	0.5	54.2	11	SOD	eP	04 00 43		
		iSKP	20 55.8				KJN	eP	04 00 33		
		iPKS	21 41								
	KEV	iPKP	02 18 10.2 U	0.6	42.2	11	NUR	eP	06 45 03		
	H:	02 00 07.3					SOD	eP	06 44 25		
		16.5 S, 179.2 W, 480 km					KJN	eP	06 44 41		
		Fiji Islands					H:	06 34 31.3			
								44.8 N, 149.3 E, 125 km			
9	KJN	iP	06 14 59.5	1.1	20.3			Kurile Islands			
	H:	06 07 30				11	NUR	eP	11 01 43	1.0	16.0
		25.6 N, 36.4 E, 33 km									
		Red Sea				11	KJN	eP	13 01 29	0.7	7.4
9	NUR	iP	16 19 58.8	0.8	14.1						
	SOD	iP	16 20 04.8			12	NUR	eP	08 25 20		
		i	08.0					ePP	26 16		
	KJN	iP	16 19 57.1	0.8	14.4		SOD	iP	08 25 49.6		
	KEV	eP	16 20 08	0.9	18.6		KJN	eP	08 25 23		
	H:	16 08 00.4						e	26 14		
		3.1 N, 96.5 E, 33 km					KEV	iP	08 26 04.8	0.7	10.2
		Sumatra					H:	08 19 24.1			
								39.8 N, 53.4 E, 33 km			
10	NUR	eP	03 55 01	0.5	3.9			Turkmen, S.S.R.			
	SOD	eP	03 55 16			12	NUR	eP	13 16 07	0.7	12.6
	KJN	iP	03 55 02.8	0.6	8.0						
	H:	03 48 05				12	SOD	eP	18 01 20		
		36.4 N, 71.0 E, 249 km					KJN	eP	18 01 34		
		Hindu Kush					H:	17 51 11.3			
10	KJN	eP	13 44 44	0.8	7.9			43.6 N, 147.2 E, 33 km			
								Kurile Islands			
10	KJN	iP	17 39 53.8								
	H:	17 27 07				12	NUR	ePKP	20 50 08		
		6.1 S, 104.1 E, 126 km						ePP	50		
		Sumatra						e	55 50		
10	NUR	eP	17 40 57					ePS	21 00 12		
	SOD	eP	17 41 02					ePPS	01 04		
		ipP	13.3					eSS	06 18		
	KJN	iP	17 40 54.6	0.9	42.2		KEV	ePS	20 59 12		
		i	41 08.0					eSS	21 04 52		
		e	21					eLQ	21 16.2		
	H:	17 27 58					H:	20 31 53.2			
		6.1 S, 104.1 E, 33 km						3.5 S, 146.6 E, 33 km			
		Sumatra						Admiralty Islands			

February

February

February				T	A	February				T	A	
13	SOD eP	01 53 29				14	NUR iP	07 07 12.2	1.1	22.5		
	KJN eP	01 53 33		0.7	6.7		SOD iP	07 06 41.0				
	H:	01 42 35.3					i	48.9				
		26.5 N, 124.3 E, 125 km					KJN iP	07 06 51.4 U	0.8	17.8		
		Ryukyu Islands					e	59				
							H:	06 56 02.3				
13	NUR eP	05 10 11					37.2 N, 141.7 E, 33 km					
	i	12.0					Honshu, Japan					
13	NUR eP	02 15 45				14	KJN iP	14 39 06	0.5	5.5		
	SOD eP	02 15 27										
	KJN iP	02 15 29.9		0.8	10.6	14	NUR eP	15 58 17				
	H:	02 04 21.1					i	20.2				
		24.9 N, 124.9 E, 94 km					ePP	59 46				
		Ryukyu Islands					KJN eP	15 58 23				
							H:	15 51 12.1				
13	NUR eP	05 18 15					29.2 N, 54.5 E, 47 km					
	KJN eP	05 18 13					Southern Iran					
	H:	05 10 47.7										
		34.9 N, 72.7 E, 70 km										
		Hindu Kush				14	NUR eP	16 44 10				
13	SOD eP	10 55 32					ePKP	48 14				
							i	15.5				
							ePP	49 02				
							ePPP	51 12				
							e	52 22				
							eSKS	55 00				
13	NUR eP	10 14 05					eSP	58 28				
	SOD eP	10 13 56					ePS	46				
	KJN eP	10 13 52		1.0	19.4		ePKKP	59 07				
	H:	10 03 50.6					eSS	17 04 00				
		26.1 N, 100.9 E, 33 km					e	05 16				
		Yunnan Province, China					eSSS	08 41				
							eLQ	17 16.7				
13	NUR eP	14 00 21		0.9	64.8		SOD eP	16 43 55				
	i	22.0 U					e	47 35				
	i	36.3					ePKP	52				
	e	01 22					ePP	48 50				
	ePcS	06 24					ePKKP	59 35				
	eLQ	14 08.3					KJN eP	16 44 07				
	eLR	14 09.8					ePKP	48 11				
	SOD eP	14 00 33					ePP	58				
	i	40.0					ePKKP	59 16				
	e	49					H:	16 29 45.0				
	ePP	02 07					5.1 S, 151.7 E, 55 km					
	KJN eP	14 00 18		1.0	38.9		New Britain					
	i	19.0										
	i	24.6										
	i	01 23.8										
	e	04 32					15	NUR iP	13 18 13.0	0.9	44.7	
	e	07 08						SOD iP	13 17 27.1			
	H:	13 53 31.1						KJN iP	13 17 48.1	0.9	18.5	
		39.4 N, 72.7 E, 144 km						H:	13 07 26.1			
		Tadzhik, S.S.R.						52.7 N, 168.2 W, 50 km				
								Fox Islands				

February				T	A	February				T	A
15	NUR	iP	13 20.26.0	0.7	15.9	17	SOD	eP	13 42 16		
	SOD	eP	13 19 39								
	KJN	eP	13 20 01.1			17	NUR	eP	15 18 27		
15	NUR	ePKP	16 51 31			SOD	eP	15 17 56	0.7	8.7	
	H:		16 33 08.0			KJN	iP	15 18 05.9			
			4.8 S, 152.4 E, 71 km			H:		15 07 31.3			
			New Britain					38.9 N, 141.8 E, 72 km			
								Honshu, Japan			
16	NUR	iP	00 24 07.3	0.9	18.5	17	NUR	eP	15 21 34		
	iPP		25 29.8			KJN	iP	15 21 12.7	0.7	6.5	
	SOD	iP	00 24 49.2 U			17	NUR	eP	17 04 09		
	ePP		26 19			SOD	eP	17 03 50			
	iPcP		53.0			KJN	eP	17 03 56	0.7	8.0	
	H:		00 17 15.7								
			30.1 N, 51.2 E, 37 km			18	SOD	eP	00 48 51		
			Southwestern Iran			KJN	eP	00 48 49	1.0	6.3	
16	NUR	ePKP	01 56 18			H:		00 37 07.0			
	H:		01 37 28.0					17.5 N, 121.3 E, 56 km			
			13.9 S, 167.0 E, 107 km					Luzon, Philippines			
			New Hebrides Islands								
16	NUR	eP	10 25 59			18	NUR	iPKP	01 50 21.1	1.1	32.5
16	NUR	eP	21 11 58			KJN	iPKP	01 50 13.3	1.0	16.8	
	SOD	iP	21 11 23.1			H:		01 31 21.8			
	KJN	eP	21 11 37	0.6	4.4			16.2 S, 166.4 E, 77 km			
	H:		21 01 22.0					New Hebrides Islands			
			44.0 N, 147.1 E, 80 km			18	NUR	iP	03 58 05.4 U	0.9	47.6
			Kurile Islands			SOD	iP	03 58 07.5			
16	NUR	eSS	22 09 50			KJN	iP	03 57 58.6	1.1	25.4	
	eSSS		14 36			H:		03 48 35.6			
	eLQ		22 21.3					27.5 N, 91.1 E, 30 km			
	H:		21 34 32.3					Bhutan			
			5.6 S, 152.0 E, 49 km			18	NUR	eP	04 58 43	0.9	18.0
			New Britain			SOD	iP	04 58 23.1			
17	NUR	eP	06 02 09			KJN	iP	04 58 28.8	1.0	25.5	
	SOD	eP	06 01 54			H:		04 45 42			
	KJN	eP	06 01 55	0.9	8.8			14.2 N, 146.5 E, 78 km			
	i		02 00.1					Mariana Islands			
	H:		05 05 41.8			18	NUR	ePKP	05 01 29	0.8	15.5
			23.1 N, 120.6 E, 33 km			SOD	ePKP	05 01 15			
			Southern Formosa			KJN	ePKP	05 01 19.8			
17	NUR	iP	12 22 51.0	0.9	16.2	H:		04 42 47.7			
	SOD	eP	12 24 01					15.5 S, 175.0 W, 289 km			
	KJN	eP	12 23 35	1.1	19.4			Tonga Islands			
	i		38.9								
	H:		12 19 02.9								
			47.2 N, 8.5 E, 33 km								
			Switzerland								

February				T	A	February				T	A
18	NUR	eP	12 26 56	1.2	20.9	20	NUR	iP	03 37 41.5	0.9	18.9
	SOD	iP	12 27 07.6			KJN	iP	03 37 16.5	1.1	25.1	
	KJN	eP	12 27 04			H: 03 26 58.0			51.5 N, 175.8 E, 33 km		
	H: 12 19 20.6 38.8 N, 28.4 W, 33 km Azores					Near Islands					
18	NUR	eS	12 47 56			20	NUR	eP	03 41 25	0.9	8.1
		eSS	52 54			KJN	eP	03 41 02			
		eLQ	12 58.6			20	NUR	eP	04 02 24	1.0	8.2
	KJN	eP	12 38 22			H: 03 51 40.2			51.5 N, 175.8 E, 33 km		
18	NUR	eP	14 04 27			Near Islands					
	SOD	eP	14 03 39			20	NUR	iP	08 46 12.7 D	0.6	28.4
	H: 13 54 14.9					SOD	iP	08 45 33.6			
	58.7 N, 152.2 W, 33 km					KJN	iP	08 45 48.6	0.8	19.3	
	Kodiak Island region					iPcP 46 30.3			H: 08 35 36.2		
18	NUR	iP	17 15 06.0 U	0.9	40.5	46.6 N, 152.5 E, 50 km			Kurile Islands		
	SOD	iP	17 15 22.8 D			20	NUR	eP	10 04 34	0.7	7.9
	KJN	iP	17 15 06.5 U	1.0	37.5	i 05 17.0					
	H: 17 08 10.2					ePP 06 46					
	36.3 N, 70.7 E, 223 km					ePPP 08 44					
	Hindu Kush					eS 13 16					
18	NUR	eP	22 54 35			eScS 14 26					
	KJN	eP	22 54 11			eSS 17 42					
	H: 22 43 52.5					eSSS 20 32					
	45.0 N, 150.6 E, 40 km					eLQ 10 22					
	Kurile Islands					eLR 10 24					
19	NUR	eP	08 43 45			SOD	iP	10 03 55.9			
	KJN	eP	08 43 30	0.8	7.1	KJN	eP	10 04 09	0.9	10.8	
	H: 09 53 51.1					H: 09 53 51.1			44.6 N, 150.0 E, 50 km		
	Kurile Islands					Kurile Islands					
19	SOD	eP	09 28 50			20	NUR	eP	15 41 57	0.7	5.3
	KJN	eP	09 28 44	1.7	60.8	SOD	eP	15 41 25			
	H: 09 15 29.4					KJN	eP	15 41 42	0.8	13.1	
	9.6 S, 107.3 E, 48 km					H: 01 10 41			0.8 8.8		
	South coast of Java					SOD eP 01 11 15					
19	NUR	eP	10 18 50	0.7	6.2	H: 01 04 00.6			34.4 N, 58.1 E, 33 km		
19	KJN	eP	20 40 34			Iran					
20	NUR	eP	02 57 57	1.1	12.2	21	NUR	eP	14 06 09		
	KJN	eP	02 57 33			KJN	iP	14 06 07.5	0.7	8.0	
	H: 02 47 14.9					H: 13 53 06.0			6.7 S, 105.5 E, 33 km		
	51.7 N, 175.6 E, 33 km					Sunda Strait					
	Rat Islands										

February				T	A	February				T	A	
21	NUR	eP	17 22 17	1.0	10.0	SOD	eP	18 00 54				
		eS	28 15			KJN	iP	18 01 02.6	1.1	22.4		
		eLQ	17 31.9			H:		17 50 56.2				
		eLR	17 32.8					48.5 N, 154.9 E, 60 km				
	SOD	eP	17 22 26					Kurile Islands				
	KJN	eP	17 22 24	1.3	17.4	22	NUR	iP	21 27 55.3	0.7	16.9	
			H: 17 14 45				SOD	iP	21 27 38.1			
			38.3 N, 28.7 W, 33 km				KJN	iP	21 27 41.1 U	0.7	13.3	
			Azores				H:		21 16 27.5			
21	SOD	eP	21 50 37					24.1 N, 123.2 E, 48 km				
								Ryukyu Islands				
22	NUR	iPKP	02 06 56.0	1.0	62.0	22	KJN	eP	22 31 08			
		i	07 04.5	1.1	22.5							
		epPKP	57			23	NUR	eP	00 17 30			
	SOD	iPKP	02 06 42.3				KJN	eP	00 17 07	1.0	8.6	
	KJN	iPKP	02 06 47.2	1.1	73.9		H:		00 06 59.0			
			H: 01 47 32.1					48.6 N, 154.7 E, 33 km				
			36.9 S, 176.9 E, 203 km					Kurile Islands				
			North Island			23	NUR	eP	02 02 37			
22	NUR	eP	02 23 08	0.6	6.3		KJN	eP	02 02 57	0.9	5.4	
22	NUR	eP	08 36 26			23	NUR	iP	22 45 50.4	1.2	41.0	
22	NUR	iPKP	09 10 10.8 U	1.0	460.0		i	53.7				
		i	14.3 U				ePP	46 24				
		i	21.3				e	49				
	SOD	ePKP	09 09 46				iS	49 40				
		e	10 03				eLQ	22 50.2				
	KJN	iPKP	09 10 00.2	0.8	11.9		eLR	22 51				
		i	05.4 U				SOD	iP	22 46 57.9			
			H: 08 50 35.0				KJN	iP	22 46 28.0 D	1.0	55.6	
			30.1 S, 177.3 W, 33 km				i	37.8				
			Kermadec Islands				KEV	eP	22 47 19	1.0	21.9	
22	NUR	eP	14 34 03	0.8	7.2		eS	52 20				
							e	46				
22	NUR	iP	16 15 33.4	0.7	15.5		H:		22 41 06.3			
		epP	17 10	1.0	12.0			39.2 N, 23.7 E, 33 km				
	SOD	iP	16 15 08.0					Aegean Sea				
	KJN	iP	16 15 15.7 D	0.7	11.8	24	KJN	eP	07 11 55			
			H: 16 04 35.6			24	NUR	eP	08 03 19			
			30.1 N, 138.8 E, 411 km			24	NUR	iP	10 04 03.0	1.5	43.1	
			Honshu, Japan				SOD	eP	10 04 31			
22	NUR	eP	18 01 25				KJN	iP	10 04 10.0	0.9	13.8	
		e	17 31				H:		09 52 18.7			
		eLQ	18 20.8					7.3 S, 67.8 E, 33 km				
		eLR	18 22.5					Chagos Archipelago				

cont.

February				T	A	February				T	A
24	NUR	iP	11 37 18.9	1.1	38.6	25	NUR	iP	10 15 18.9	0.6	10.0
	SOD	eP	11 38 12				SOD	eP	10 14 41		
		e	56				H:	10 04 37.5			
	KJN	eP	11 37 19	0.9	11.9			45.4 N, 151.3 E, 50 km			
		e	43					Kurile Islands			
	KEV	eP	11 38 31			25	NUR	eP	16 06 11	0.8	7.2
	H:	11 32 13									
		39.3 N, 40.1 E, 33 km				25	NUR	iPKP	23 43 06.2 U	0.9	53.1
		Eastern Turkey					KJN	ePKP	23 42 55		
24	NUR	iPKP	16 37 31.8 U	0.8	38.0		H:	23 23 33.3			
	KJN	ePKP	16 37 21	0.8	10.8			30.1 S, 177.9 W, 51 km			
	H:	16 18 18						Kermadec Islands			
		31.6 S, 177.8 W, 377 km				26	NUR	eP	07 35 09		
		Kermadec Islands					eS	38 06			
24	NUR	eP	21 07 30	0.6	6.4		SOD	iP	07 33 41.4		
	KJN	iP	21 07 12.0 D	0.7	11.1		eS	35 23			
	H:	20 56 44.5					KJN	eP	07 34 25		
		30.4 N, 137.1 E, 504 km					eS	36 40			
		Honshu, Japan					H:	07 31 24.5			
24	NUR	eP	23 11 48					76.8 N, 22.8 E, 33 km			
	H:	23 07 01						Svalbard region			
		38.8 N, 23.4 E, 55 km				26	NUR	iP	09 19 50.3	0.7	8.8
		Aegean Sea					SOD	iP	09 19 04.1		
24	NUR	eP	23 26 13				KJN	eP	09 19 27		
	KJN	eP	23 26 48				KEV	eP	09 18 41		
24	NUR	eP	23 35 13				H:	09 09 21.7			
	SOD	eP	23 36 24					56.2 N, 155.4 W, 33 km			
	KJN	eP	23 35 49					Kodiak Island			
	H:	23 30 24.6				26	NUR	iP	09 24 18.2	0.5	6.5
		39.2 N, 23.8 E, 16 km					i	20.0	0.8	16.9	
		Aegean Sea					SOD	eP	09 24 59		
25	NUR	e	01 03 02				KJN	iP	09 24 34.1	1.1	35.1
	e	07 26					ePP	26 06			
25	NUR	eP	02 42 16				KEV	iP	09 25 14.0	1.0	44.9
	KJN	eP	02 42 11	0.9	9.9		H:	09 16 55.2			
	H:	02 28 55.5						27.3 N, 54.5 E, 33 km			
		9.1 S, 110.7 E, 81 km						Southern Iran			
		Off south coast of Java				26	NUR	eP	18 27 34	0.7	11.3
25	NUR	iP	04 15 18.7 D	0.7	71.0		SOD	iP	18 27 22.1 D		
	SOD	iP	04 14 52.1 D				KJN	iP	18 27 22.0	1.0	55.6
	KJN	iP	04 15 00.3 D	0.8	67.2		eS	18 38 09			
	KEV	iP	04 14 43.9 D	0.7	41.3		KEV	eP	18 27 19	1.0	30.6
	H:	04 04 29.0					e	37			
		32.1 N, 137.7 E, 374 km					H:	18 14 37.9			
		Honshu, Japan						4.4 N, 126.2 E, 132 km			
								Talau Islands			

February

February

February				T	A	February				T	A		
26	NUR	ePKP	21 36 23					eScP	25 30				
		e	40					eS	29 12				
		ePKS	40 06					eP'P'	50 04				
		eSS	58 24					KJN	iP 15 20 49.5 U	1.0	101.9		
	KJN	iPKP	21 36 23.0	1.0	16.4			ipP	21 15				
		H: 21 17 08.1						iS	28 57				
		20.7 S, 174.4 W, 33 km						isS	29 40				
		Tonga Islands						iScS	30 29				
								i	31 08				
27	NUR	eP	01 42 23					eP'P'	50 18				
27	NUR	eP	02 43 27	0.9	10.0			KEV	iP 15 21 00.6 U	1.0	145.4		
		e	37	1.4	56.7			e	24				
		eS	52 28					e	24 13				
		eSS	57 13					ePPP	50				
		eLR	03 01					iS	29 18				
	SOD	eP	02 44 06					e	46				
		e	14					eSS	33 12				
	KJN	iP	02 43 46.4	1.4	58.1			eLQ	15 36.2				
		i	54.1					H: 15 10 48.4					
	KEV	eP	02 44 28	1.0	46.5			21.7 N, 94.4 E, 102 km					
		H: 02 32 23.7						Central Burma					
		7.6 S, 39.6 E, 33 km											
		Tanganyika											
27	NUR	iP	09 09 21.0	0.6	9.9			28	NUR	eP	00 07 18	0.6	6.2
		ePP	10 32					SOD	iP	00 06 29.8			
	SOD	eP	09 09 25					KJN	eP	00 06 53	0.7	4.4	
	KJN	eP	09 09 12					H: 23 57 32.6					
	KEV	eP	09 09 28	0.8	16.0			60.4 N, 153.2 W, 165 km					
		H: 09 02 22.8						Southern Alaska					
		44.0 N, 79.2 E, 33 km											
		Kazakh S.S.R.											
27	NUR	eP	15 20 55	0.7	15.2			28	NUR	eP	02 34 10	0.7	5.1
		i	56.2	0.8	88.7			KJN	eP	02 34 00			
		ipP	21 20.8					28	NUR	eP	15 32 12	1.0	10.0
		ePPP	24 48					28	NUR	eP	16 58 50		
		iS	29 07.0					28	NUR	iP	17 08 50.3	0.9	15.1
		epS	38					KJN	eP	17 08 40	1.0	5.3	
		isS	47.0										
		eScS	30 36					28	NUR	eP	17 57 38	0.9	10.1
		e	31 15					e	49				
		eSS	33 18					eS	18 06 12				
		eP'P'	50 16					eSS	10 18				
		eLQ	15 37					eLQ	18 14.4				
		eLR	15 39					SOD	iP	17 57 42.0 U			
	SOD	iP	15 20 57.3 U					i	51.8				
		ipP	21 22.1					KJN	eP	17 57 34	1.0	16.8	
		ePP	23 14					i	50.8	1.5	86.5		
		cont.						cont.					

February

February

				T	A
	KEV	iP	17 57 45.2	0.9	23.7
		i	47.5		
		eS	18 06 24		
	H: 17 47 05.9				
	18.2 N, 94.3 E, 43 km				
	Near west of Burma				
28	NUR	eP	20 49 13	0.6	5.0
		e	43		
	KJN	eP	20 48 48	0.6	5.1
		e	49 18	0.7	8.7
28	KJN	eP	20 58 53		
	H: 20 46 00.1				
	13.3 N, 144.7 E, 33 km				
	Mariana Islands				
29	NUR	iP	04 38 34.1	0.8	8.6
	KJN	iP	04 38 14.0	0.8	11.6
	H: 04 31 41.4				
	53.5 N, 90.9 E, 33 km				
	Southern Siberia				
29	NUR	iP	07 14 43.0	0.8	15.8
		esP	15 16		
	SOD	eP	07 14 04		
	KJN	eP	07 14 19	1.0	12.8
	H: 07 04 18.3				
	47.0 N, 150.9 E, 110 km				
	Kurile Islands				
29	KJN	eP	07 20 37	1.0	5.4
29	NUR	eP	14 16 37	0.6	3.8
	KJN	eP	14 16 12	0.7	4.3
29	NUR	iP	15 31 35.2	1.0	28.0
		eS	40 54		
		eScS	41 40		
		eSS	45 24		
		eSSS	48 56		
		eLQ	15 50		

cont.

				T	A
	SOD	eP	15 31 05		
	KJN	iP	15 31 14.6	D 1.4	108.9
	KEV	eS	15 39 38		
		eScS	40 42		
		eSS	43 52		
		eSSS	46 42		
		eLR	15 51.2		
	H: 15 20 12.8				
	34.8 N, 141.7 E, 34 km				
	Honshu, Japan				
29	NUR	iP	19 53 53.0	D 0.8	14.4
	SOD	iP	19 53 27.2		
	KJN	iP	19 53 35.2	D 0.7	11.1
	H: 19 42 43.9				
	29.9 N, 139.1 E, 322 km				
	Honshu, Japan				
29	NUR	ePKP	20 32 52		
	KJN	ePKP	20 32 50		
	H: 20 13 41.6				
	18.2 S, 172.8 W, 33 km				
	Tonga Islands				

November 16, 1964

Urmás Luosto
Seppo Pirhonen

March				T	A	March				T	A
1	NUR	eP	00 03 02	1.2	24.0	1	NUR	eP	16 53 15		
		ePP	07 02			1	NUR	eP	18 35 06		
		iSKS	13 24			2	NUR	e	10 11 00		
		iS	14 06				KJN	eP	10 11 09	1.4	30.8
		ePS	15 30			2	NUR	e	12 56 36		
		ePPS	16 44					eS	13 02 50		
		e	17 54					eLR	13 20.8		
		iPKKP	19 46.3					H:	12 39 17.6		
		eSS	20 48						13.9 N, 91.1 W, 130 km		
		e	23 16						Near coast of Guatemala		
		eSSS	24 44			2	NUR	eP	16 26 19		
		eLQ	00 30					H:	16 16 10.7		
SOD	eP	00 03 05							55.4 N, 166.6 E, 33 km		
	ePKKP	19 46							Komandorskie Islands		
KJN	iP	00 02 56.5	1.2	39.6	2	NUR	eP	18 50 02			
	ePP	06 47					e	26			
	iSKS	13 18.1				SOD	eP	18 49 29			
	iS	56.5				KJN	iP	18 49 40.1	1.2	26.9	
	e	14 41					i	46.7			
	ePKKP	19 47					H:	18 39 12.2			
KEV	eSKS	00 13 20						41.1 N, 142.6 E, 29 km			
	eSP	15 28						Honshu, Japan			
	eSS	20 36				2	KJN	iP	18 52 27.0	0.5	9.9
	eSSS	24 30									
	H:	23 49 40.8				2	NUR	eP	18 58 03		
		8.5 S, 112.7 E, 73 km									
		South coast of Java				2	NUR	eP	19 46 22	0.8	4.4
1	NUR	eP	00 43 07	0.5	2.6	2	NUR	ePKP	19 51 39		
							i	52.2	0.7	26.0	
1	NUR	ePKP	02 58 52	0.9	8.4		ePP	54 20			
	H:	02 40 21.6					iSKP	55 12.1			
		7.1 S, 155.4 E, 100 km					iPKS	23.6			
		Solomon Islands					e	56 16			
1	NUR	eP	08 13 51	1.0	10.0		e	20 01 04			
	KJN	iP	08 13 38.8	0.7	9.6		ePSKS	04 22			
	H:	08 02 03.8					ePPS	06 18			
		18.8 N, 120.6 E, 50 km					e	07 30			
		Luzon, Philippines					eSS	12 20			
1	NUR	eP	11 33 05	0.9	6.7		eSSS	17 06			
	H:	11 22 22.9					eLQ	20 28			
		45.3 N, 150.6 E, 33 km					eLR	20 37.2			
		Kurile Islands				SOD	ePKP	19 51 38			
1	SOD	iP	13 07 11.7				iSKP	54 50.1			
	KJN	eP	13 07 11	1.3	27.8	KJN	ePKP	19 51 36			
	H:	12 54 37.3					i	43.4			
		7.8 N, 122.5 E, 31 km					iSKP	55 01			
		Mindanao, Philippines					iPKS	10			
								cont.			

March				March			
			T	A		T	A
KEV	ePKP	19 51 35			3	SOD	iP 21 50 06.0
	ePP	53 28			3	NUR	iP 21 52 27.1 0.7 7.8
	eSP	20 03 10				e	22 02 06
	ePSP	05 12				eSKS	40
	eSS	10 20				eS	03 06
	e	13 14				eSP	04 14
H:		19 32 41.7				e	17 20
		18.9 S, 174.8 W, 105 km				SOD	iP 21 52 18.1
		Tonga Islands				KJN	iP 21 52 19.0 D 1.0 34.2
3	NUR	iPKP 04 16 24.9	0.6	6.4		eSKS	22 02 29
	KJN	ePKP 04 16 15	0.7	9.1		eS	48
	H:	03 56 56.1				KEV	iP 21 52 15.5 0.9 20.5
		33.1 S, 179.9 W, 128 km				H:	21 39 31
		Kermadec Islands					4.8 N, 125.5 E, 77 km
							Celebes Sea
3	SOD	eP 07 54 11			4	NUR	eP 02 26 18 0.9 5.1
	e	56 17				SOD	eP 02 25 22
	KEV	e 07 54 23				KJN	eP 02 25 55
	e	55 25				H:	02 22 31.5
3	SOD	eP 09 10 49					71.3 N, 5.7 W, 33 km
	KJN	eP 09 11 02	0.6	6.1			Svalbard region
	H:	09 00 41.3			4	NUR	eP 03 05 28 1.2 14.5
		42.4 N, 142.2 E, 33 km				H:	02 58 29.2
		Hokkaido, Japan					43.6 N, 28.9 W, 33 km
3	SOD	eP 10 56 17					Azores region
	e	58 21			4	KJN	iP 06 08 45.6 0.7 12.1
	KEV	e 10 56 22				e	09 17
	e	57 24			4	NUR	ePKP 06 28 38
3	NUR	iPKP 15 31 50.4	0.8	21.9		KJN	ePKP 06 28 29 0.7 6.8
	KJN	ePKP 15 31 46	0.8	6.2		H:	06 08 58.6
	H:	15 12 14.9					33.8 S, 179.6 W, 47 km
		30.4 S, 177.9 W, 33 km					Kermadec Islands
		Kermadec Islands			4	NUR	eP 07 29 42
3	NUR	eP 17 14 43				SOD	eP 07 29 34
	SOD	eP 17 14 04				KJN	iP 07 29 32.9 U 0.8 8.7
	H:	17 03 55				H:	07 17 41.2
		45.3 N, 153.7 E, 33 km					4.2 N, 123.1 E, 588 km
		Kurile Islands					Celebes Sea
3	NUR	eP 19 48 08	0.5	4.0	4	SOD	eP 14 00 22
	SOD	eP 19 47 37			4	NUR	eP 14 02 13
	KJN	eP 19 47 47	0.6	6.7	4	NUR	iP 17 38 26.0 0.6 12.7
	e	48 31				i	30.0
	H:	19 37 06.7				eS	42 21
		37.3 N, 140.9 E, 80 km				SOD	iP 17 39 14
		Honshu, Japan				i	32.9
3	KJN	eP 20 11 48	0.5	4.5			cont.

March			T	A	March			T	A
	KJN	iP 17 38 45.2				5	NUR ePKP 10 24 28		
		eS 43 09					e 27 16		
	KEV	eP 17 39 52					eSS 42 32		
	H:	17 33 43.3					eSSS 46 24		
		43.3 N, 46.1 E, 58 km					KJN ePKP 10 24 31		
		Eastern Caucasus					H: 10 05 37.2		
4	NUR	eP 21 37 16	0.5	2.7			11.2 S, 162.2 E, 38 km		
	SOD	eP 21 38 18					Solomon Islands		
	KJN	iP 21 37 51.5			5	NUR eP 18 23 03			
	KEV	eP 21 38 38				BCIS:			
	H:	21 31 49				H: 18 18 30			
		34.8 N, 23.9 E, 40 km				43.3 N, 8.2 E			
		Crete				Mediterranean Sea			
5	NUR	iP 00 05 46.4	0.6	14.0	5	NUR iP 22 38 09.7 D	0.8	8.6	
	SOD	iP 00 05 34.2 D				H: 22 27 22.7			
	KJN	iP 00 05 35.1	1.0	26.8		52.8 N, 170.0 W, 33 km			
	H:	23 53 19.4				Fox Islands			
		11.8 N, 125.6 E, 91 km			6	NUR eP 00 05 29	1.0	10.0	
		Leyte, Philippines							
5	NUR	iP 00 13 55.0	1.0	24.4	6	NUR iP 02 47 25.0 U	0.8	14.4	
		e 16 24				e 49			
		ePPP 19 30				SOD eP 02 46 51			
		i 23 34				i 47 17.1			
		eS 24 22				KEV iP 02 46 41.2	1.0	28.6	
	SOD	eP 00 13 42				H: 02 36 36.3			
	KJN	iP 00 13 44.1	1.0	32.1		41.1 N, 142.5 E, 34 km			
		e 55				Honshu, Japan			
	KEV	e 00 13 46			6	NUR e 06 53 11			
	H:	00 01 19.6				e 55 08			
		11.5 N, 126.0 E, 40 km				SOD e 06 51 16			
		Leyte, Philippines				e 53 22			
5	NUR	ePKP 06 19 31	1.3	10.3		KEV e 06 50 21			
		eSS 37 28				e 53 07			
		eSSS 41 56			6	NUR eP 07 49 38			
		eLQ 06 50.5							
		eLR 06 57.2			6	NUR eP 09 34 10			
	H:	06 00 41.3				KEV eP 09 35 03			
		45.2 S, 96.4 E, 40 km			6	NUR ePKP 19 16 07			
		Indian Ocean				ePP 42			
5	NUR	eP 07 53 50	0.8	5.8		eSP 25 48			
	SOD	iP 07 53 20.0				ePPS 27 46			
	KJN	iP 07 53 28.5	0.7	8.1		eSS 32 30			
	H:	07 42 42.8				e 35 24			
		35.9 N, 140.4 E, 85 km				eSSS 37 10			
		Honshu, Japan				eLQ 19 45.1			
5	KEV	e 10 21 01				eLR 19 48.1			
		e 22 18				cont..			

March

March

March				T	A	March				T	A
KEV	ePP	19 15 26				8	NUR	iPKP	01 55 42.2	1.0	19.8
	eSP	25 05					i		49.0	1.0	41.6
	eLR	19 47.1					ePPS	02 12 48			
H: 18 57 16.1							eSS	18 48			
6.1 S, 154.4 E, 74 km							eSSS	24 44			
New Britain region							e	29 40			
							e	32 16			
6	NUR	eP	21 32 22				eLQ	01 40.2			
	e		47 10				eLR	01 49.5			
7	NUR	eP	04 16 35	0.8	4.2		SOD	ePKP	01 55 32		
							i		42.5 D		
7	NUR	eP	07 36 56	0.9	8.2		KEV	iPKP	01 55 30.0 D	1.0	67.7
	SOD	iP	07 37 02.8 U				i		37.4 D		
	i		14.9 U				H: 01 35 48.1				
	KEV	iP	07 37 06.0 U	0.9	36.3		44.0 S, 168.4 E, 33 km				
	H: 07 25 03.9						South Island				
	3.5 N, 97.1 E, 82 km										
	Northern Sumatra					9	NUR	iP	10 34 41.7	0.6	25.0
7	NUR	eP	07 47 41	1.2	25.1		SOD	eP	10 34 56		
	i		49.0				H: 10 27 33.1				
	eS		50 16				36.2 N, 71.5 E, 132 km				
	eLR		07 51.0				Hindu Kush				
	SOD	iP	07 46 39.4			9	NUR	eP	19 48 01		
	i		41.8 U				SOD	iP	19 48 17.1		
	i		56.9 U				H: 19 41 01.3				
	e		47 16				36.5 N, 70.9 E, 181 km				
	KEV	eP	07 46 25	0.7	11.9		Hindu Kush				
	H: 07 44 08.1					10	NUR	eP	14 13 02	1.4	37.8
	71.7 N, 1.4 W, 33 km						eSKS		23 22		
	Jan Mayen Island						eLR		14 42.5		
7	NUR	eP	07 51 37				SOD	iP	14 12 52.3		
	SOD	eP	07 50 34				KEV	eP	14 12 50	1.2	43.8
	KEV	eP	07 50 20				H: 13 59 54.8				
							1.9 N, 127.5 E, 117 km				
							Molucca Passage				
7	NUR	eP	10 02 15	0.8	7.1	10	NUR	eP	18 26 18		
	SOD	eP	10 01 12								
	H: 09 58 57.1					11	NUR	iP	00 13 53.8 U	0.7	21.1
	70.8 N, 2.4 E, 33 km						eLQ		00 20		
	Jan Mayen Island						eLR		00 21		
7	NUR	ePS	10 55 50				SOD	iP	00 14 42.0		
	ePPS		57 30				KEV	eP	00 15 03		
	eSS		11 02 54				H: 00 09 02.7				
	e		06 22				42.5 N, 45.0 E, 29 km				
	eLQ		11 15.2				Georgia S.S.R.				
	eLR		11 19.8								
7	NUR	eP	13 20 29			11	NUR	eSKS	01 29 30		
	H: 13 09 17						eS		30 20		
	26.1 N, 125.5 E, 161 km						ePS		31 36		
	Ryukyu Islands						cont.				

March						March					
				T	A					T	A
14	NUR	eP	07 03 29	0.9	8.4	14	NUR	eP	16 47 53	1.5	46.5
	SOD	iP	07 03 37.9 U				SOD	eP	16 48 27		
	KJN	iP	07 03 26.6	0.7	13.0		KJN	eP	16 48 15	1.4	71.6
	H: 06 51 58.6						H: 16 36 52.1				
	6.2 S, 92.1 E, 33 km						1.9 S, 12.9 W, 33 km				
	Andaman Islands						Mid-Atlantic Ocean				
14	NUR	eP	11 36 08	0.6	3.7	14	NUR	eP	18 54 28	0.8	5.7
	SOD	eP	11 35 23				SOD	eP	18 55 03		
	KJN	eP	11 35 44	0.6	4.6		KJN	eP	18 54 50		
	H: 11 25 13.3						H: 18 43 27.4				
	51.5 N, 170.1 W, 33 km						1.8 S, 13.2 W, 33 km				
	Fox Islands						Mid-Atlantic Ocean				
14	NUR	ePKP	12 03 02			14	NUR	eP	19 02 47	0.9	10.0
		i	07.1	1.0	29.9			e	03 22	1.3	20.3
		iSKP	05 53.0				SOD	eP	19 02 02		
		ePKS	06 46				KJN	eP	19 02 41	1.0	12.0
	SOD	ePKP	12 03 01			14	NUR	eP	23 07 23		
		eSKP	05 32					e	58	0.9	21.7
	KJN	ePKP	12 02 52				SOD	eP	23 08 10		
		i	03 04.2					e	09 02		
		i	06.0	0.8	27.7		KJN	iP	23 07 51.6	0.9	10.1
		iSKP	05 41.0				BCIS:				
		ePKS	06 34				H: 23 02.3				
	KEV	iPKP	12 02 56.7	0.8	22.1		38.5 N, 40.0 E				
	H: 11 44 53.8						Turkey				
	20.6 S, 178.5 W, 561 km					15	NUR	eP	03 31 40		
	Fiji Islands						KJN	eP	03 31 25		
14	NUR	eP	12 19 20				H: 03 18 13.6				
14	NUR	iPKP	15 23 51.2	0.7	39.7		1.2 N, 126.6 E, 43 km				
		eSKP	26 17				Molucca Passage				
		iPKS	27 12.1			15	NUR	eP	07 25 54		
	SOD	ePKP	15 23 40.1			15	NUR	eP	07 35 44	0.7	5.1
	KJN	iPKP	15 23 44.5 D	0.8	21.6		KJN	iP	07 36 03.6	0.8	11.9
	KEV	iPKP	15 23 36.8	0.7	26.2	15	NUR	eP	07 57 24	0.9	8.4
	H: 15 05 54.4						KJN	eP	07 57 03		
	13.7 S, 172.3 E, 611 km					15	NUR	iP	08 06 21.9 U	0.7	26.9
	New Hebrides Islands							i	07 12.9	1.0	37.8
14	NUR	iP	15 23 56.7				SOD	iP	08 06 16.4 U		
	SOD	eP	15 23 59				KJN	iP	08 06 08.7 U	0.7	64.2
	KJN	iP	15 24 03.5					e	35		
	KEV	eP	15 23 59				KEV	iP	08 06 19.4	0.5	20.1
	H: 15 12 22.4							i	07 08.2		
	15.9 N, 60.5 W, 31 km						H: 07 59 58.0				
	Leeward Islands region						49.7 N, 78.0 E, 0 km				
14	NUR	eP	16 12 49	0.8	5.7		Kazakh, S.S.R.				

March						March						
				T	A					T	A	
18	NUR eP	16 47 06				KJN ePKP	22 03 02	1.0	12.0			
	KJN eP	16 47 54	0.7	2.3		i	11.2 D					
	H:	16 43 24				ePKS	06 31					
		45.7 N, 14.1 E, 33 km				KEV ePKP	22 03 03					
		Yugoslavia				eSS	21 28					
						H:	21 44 03.8					
18	SOD iP	23 42 28.8				15.1 S, 172.6 W, 33 km						
	KJN eP	23 42 24	0.7	6.0		Samoa Islands						
19	NUR ePKP	05 03 55			20	NUR eP	03 23 03	0.9	8.6			
	i	04 06.7	0.9	10.1		KJN eP	03 23 18					
	KJN ePKP	05 03 50				H:	03 15 45.6					
	e	58	0.8	8.5		28.2 N, 55.0 E, 43 km						
	H:	04 45 50.9				Southern Iran						
		21.9 S, 179.5 E, 613 km										
		Fiji Islands				20	NUR eP	06 08 56	0.9	8.6		
19	KJN eP	07 43 02			20	NUR eP	19 10 51	1.1	14.3			
19	NUR iP	07 58 00.3	0.5	13.2		SOD iP	19 10 51.7 D					
19	SOD eP	09 52 09				ipP	11 16.2					
	e	13				KJN eP	19 10 41					
	KEV ePPP	09 55 54				i	44.4	1.0	16.4			
	eS	10 00 36				e	11 55					
	eLR	10 09.8				KEV eP	19 10 58					
	H:	09 42 34.9				H:	19 00 52.7					
		14.7 N, 56.3 E, 33 km				23.6 N, 94.4 E, 86 km						
		Arabian Sea				Northwestern Burma						
19	NUR eP	12 02 00			20	NUR ePKP	19 34 40	1.1	11.9			
	SOD eP	12 01 35				H:	19 15 16.3					
	KJN iP	12 01 42.0	0.9	21.1		19.8 S, 173.6 W, 33 km						
	KEV iP	12 01 27.2	0.9	17.1		Tonga Islands						
	H:	11 50 54.2			21	NUR eP	03 55 33	0.9	6.7			
		28.4 N, 139.6 E, 450 km				epP	56 54					
		Bonin Islands region				e	58 23					
19	KJN iP	13 39 44.2				ePP	59 54					
19	NUR ePKP	22 03 07				e	04 00 52					
	i	19.2	0.7	6.5		esPP	01 48					
	e	04 22				e	03 50					
	ePKS	06 47				eSKS	05 37					
	ePPS	17 56				e	06 14					
	eSS	23 30				eS	36					
	e	25 32				eSP	08 15					
	eSSS	28 12				esPS	10 44					
	eLQ	22 38				ePKKP	11 35					
	eLR	22 41				eSS	14 06					
SOD ePKP	22 03 01					esSS	17 04					
						SOD iP	03 55 25.4					
						i	28.1					
						epP	56 50					

cont.

cont.

March						March					
				T	A					T	A
22	NUR	eP	20 58 42	0.9	8.4	24	NUR	eP	02 10 34	0.7	6.4
		e	21 01 03				SOD	iP	02 10 10.1		
22	NUR	eP	13 51 10				KJN	iP	02 10 16.8 D	0.7	10.6
	SOD	eP	13 51 10				KEV	eP	02 10 03	1.0	14.5
	KJN	iP	13 51 02.4	1.0	5.5		H: 01 58 42.7				
	H: 13 39 02						25.2 N, 140.6 E, 181 km				
	3.2 N, 98.0 E, 33 km						Volcano Islands				
	Northern Sumatra					24	NUR	eP	11 29 42	0.6	2.5
23	KJN	eP	01 15 57			24	NUR	eP	17 59 30		
	H: 01 02 36.1					24	NUR	eP	20 44 01	0.6	7.5
	9.3 S, 108.2 E, 50 km						SOD	eP	20 43 15		
	Off south coast of Java						KJN	eP	20 43 37	1.0	10.6
23	NUR	eP	02 46 30				H: 20 33 16.7				
23	NUR	eP	07 43 29	0.9	6.7		45.2 N, 151.4 E, 33 km				
	KJN	iP	07 43 28.3				Kurile Islands				
	H: 07 36 24.3					24	NUR	eP	22 31 39	0.5	5.3
	37.2 N, 72.3 E, 143 km						e		49		
	Hindu Kush						SOD	eP	22 31 08		
23	SOD	eP	09 53 46				KJN	iP	22 31 17.7	0.8	9.5
	H: 09 43 50						e		27		
	46.2 N, 149.6 E, 33 km					v	H: 22 20 26.2				
	Kurile Islands						36.1 N, 141.5 E, 50 km				
							Honshu, Japan				
23	NUR	iP	13 47 30.4 D	0.8	122.4	25	NUR	iP	02 54 32.0	0.8	25.7
	ePP		48 55				e		43		
	eS		53 08				SOD	iP	02 54 01.1		
	esS		52				KJN	iP	02 54 11.2 U	0.9	55.9
	SOD	iP	13 47 41.7 D				i		17.1		
	KJN	iP	13 47 27.5 D	1.0	136.3		KEV	iP	02 53 51.3	0.7	6.6
	iPP		53.5				H: 02 43 23.5				
	iPcP		49 51.6				36.3 N, 140.9 E, 67 km				
	e		50 58				Honshu, Japan				
	eS		53 04			25	NUR	iP	04 38 31.6	0.7	9.0
	KEV	iP	13 47 49.0 D	0.8	55.1	25	NUR	iP	05 03 17.8 U	0.9	26.7
	ePP		49 20				SOD	iP	05 02 46.8 D		
	eS		53 44				KJN	eP	05 02 56	0.5	6.6
	eSS		56 28				i		57.1 U	0.9	40.3
	H: 13 40 26.3						KEV	iP	05 02 37.1 U	1.0	20.7
	38.3 N, 73.7 E, 126 km						H: 04 52 07.8				
							36.3 N, 141.1 E, 60 km				
							Honshu, Japan				
23	SOD	eP	22 40 19			25	NUR	eP	10 20 54	1.0	10.0
	KJN	eP	22 40 19	1.0	6.5		e		21 10		
	H: 22 28 45.6						cont.				
	19.3 N, 121.0 E, 33 km										
	Luzon, Philippines										

March

March

				T	A					T	A
	SOD	eP	10 20 51			26	NUR	iP	06 42 55.3	0.8	18.9
	H:		10 08 06.8				SOD	eP	06 42 43		
			7.7 N, 75.3 W, 48 km				KJN	iP	06 42 43.4	1.0	39.2
			Northern Colombia				H:		06 30 51.1		
25	NUR	eP	14 10 09	1.0	12.1				13.7 N, 120.6 E, 118 km		
	KJN	eP	14 09 57						Luzon, Philippines		
25	NUR	iP	20 30 22.0	0.7	6.5	26	NUR	eP	07 50 03	1.0	8.1
	e		36				SOD	eP	07 50 30		
	SOD	eP	20 30 25				KJN	eP	07 50 29		
	KJN	iP	20 30 19.0 U	0.9	17.4		H:		07 43 39.1		
	e		33						39.1 N, 10.7 W, 33 km		
	KEV	eP	20 30 28	1.0	10.2				West coast of Portugal		
	H:		20 17 24.7			26	NUR	eP	09 28 10		
			5.8 S, 104.0 E, 33 km				i		21.6	1.0	28.3
			Sumatra				SOD	eP	09 28 03		
26	NUR	eP	01 28 40				i		11.1 U		
	SOD	eP	01 28 29				KJN	eP	09 27 59	1.0	9.8
	e		38				i		28 10.8 U	1.0	90.5
	KJN	eP	01 28 29	1.2	16.8		KEV	iP	09 28 08.8	0.9	26.5
	KEV	eP	01 28 36	0.9	8.6		H:		09 15 33.4		
	H:		01 16 08.8						8.3 N, 121.8 E, 59 km		
			10.3 N, 122.6 E, 53 km						Mindanao, Philippines		
			Panay, Philippines			26	SOD	eP	12 29 20		
26	NUR	eP	02 17 30	0.8	5.8		KJN	iP	12 29 19.6	0.8	14.2
	e		18 00				H:		12 15 47		
	eSKS		28 02						6.8 S, 129.3 E, 156 km		
	eS		30						Banda Sea		
	ePS		29 48			26	NUR	e	13 56 22		
	eSS		34 46				eS		58		
	eSSS		38 30				ePS		58 55		
	eLQ		02 43.7				ePKKS		14 03 00		
	SOD	eP	02 17 11				eSS		04 58		
	e		44				eLQ		14 16.7		
	KJN	eP	02 17 12	0.5	2.5		H:		13 29 56.2		
	e		45	1.3	37.4				4.4 S, 104.7 W, 33 km		
	KEV	eP	02 17 10						SW of Galapagos Islands		
	ePP		20 38			26	NUR	iP	19 48 29.3	0.8	16.0
	eSKS		27 30				SOD	iP	19 47 56.2		
	eS		28 46				KJN	iP	19 48 07.5 U	0.9	34.8
	eSS		33 20				i		17.0		
	eSSS		37 12				i		49 28.2		
	H:		02 04 20.2				KEV	eP	19 47 45	1.0	22.4
			11.3 N, 142.0 E, 33 km				H:		19 37 27.6		
			Mariana Islands						39.3 N, 143.3 E, 33 km		
									Honshu, Japan		

March				T	A	March				T	A	
26	NUR	eP	21 39 55	1.0	8.1		eSS	59 30				
	SOD	eP	21 40 02				e	21 01 24				
	KJN	eP	21 39 53	0.7	3.8		H:	20 22 10.6				
			H: 21 28 06.0					23.7 S, 179.9 E, 520 km				
			4.6 N, 95.8 E, 33 km					South of Fiji Islands				
			Sumatra									
27	NUR	iP	04 40 22.0	0.8	7.3	27	NUR	eP	20 47 02	0.8	12.0	
		i	50.0				KJN	eP	20 46 51	1.0	13.1	
	SOD	eP	04 40 21			27	NUR	iP	20 48 47.8	0.8	20.3	
		e	55				SOD	eP	20 48 29			
	KJN	eP	04 40 15				KJN	iP	20 48 36.9 D	0.9	13.8	
	KEV	iP	04 40 22.8			27	NUR	eP	23 13 06	1.0	10.1	
			H: 04 30 33.0				i	15.0	0.8	16.0		
			25.9 N, 95.8 E, 93 km				SOD	eP	23 13 10			
			Northern Burma				e	19				
27	KJN	eP	08 08 04				KJN	eP	23 13 00			
							e	09				
27	NUR	eP	19 19 48	0.5	8.0		KEV	eP	23 13 14	1.2	23.4	
	KJN	eP	19 19 47				H:	23 03 41.7				
			H: 19 12 50.7					27.2 N, 89.3 E, 32 km				
			36.8 N, 71.2 E, 206 km					Bhutan				
			Hindu Kush			28	NUR	iP	03 46 09.3			
27	NUR	iPKP	20 40 31.0				SOD	iP	03 45 20.5			
	i		38.4	0.9	27.0		KJN	iP	03 45 44.5 U			
	iSKP		43 25.4				KEV	iP	03 45 02.0			
	ePKS		44 14				eS	52 24				
	epPKS		46 12				H:	03 36 12.7				
	eSKKS		49 32					61.1 N, 147.6 W, 20 km				
	eSKSP		52 47					Prince William Sound,				
	eSS	21 01 16						Alaska				
	e	04 38				28	NUR	eP	04 44 59			
	eSSS	06 24					SOD	eP	04 44 10			
SOD	ePKP	20 40 22				28	NUR	iP	05 04 13.5			
	e	27					SOD	eP	05 03 25			
	iSKP	43 08.1					KEV	iP	05 03 06.0			
KJN	ePKP	20 40 20	1.0	27.3			eS	10 20				
	i	31.1					H:	04 54 07.9				
	e	43 14						59.8 N, 149.4 W, 25 km				
	iSKP	15.7						Alaska aftershock				
	ePKS	44 04				28	SOD	iP	05 12 24.7			
	epPKS	46 10					i	31.4				
	esPKS	55					KJN	eP	05 12 54			
KEV	ePKP	20 40 22	0.7	17.0		28	NUR	iP	05 15 46.0	1.2	95.0	
	eSKP	43 00					SOD	iP	05 14 56.9 D			
	ePKS	50					KJN	eP	05 15 22	1.2	87.4	
	epPKS	45 48					KEV	eP	05 14 38	1.0	73.4	
	e	58 00										

cont.

March						March					
				T	A					T	A
28	NUR	eP	06 34 26	0.8	11.6	28	NUR	iP	06 51 32.9 D	1.0	67.0
	SOD	eP	06 33 37					i	38.0		
	KJN	iP	06 34 01.3	0.8	19.0		SOD	iP	06 50 44.7 D		
	KEV	iP	06 33 19.0	1.0	20.4			i	49.2		
	H: 06 24 10.1							ePcP	51 53		
	58.6 N, 149.4 W, 15 km						KJN	iP	06 51 08.8 D	0.8	50.6
	Alaska aftershock							i	14.6 D		
								ePcP	52 06		
28	SOD	eP	06 37 03					e	11		
	KJN	eP	06 37 27	1.0	6.5		KEV	iP	06 50 26.1 D	0.6	44.8
								e	31		
28	NUR	iP	06 39 38.2	0.9	50.7			ePcP	51 43		
	SOD	iP	06 38 51.0 D				H: 06 41 28.0				
		i	57.3				59.9 N, 147.8 W, 15 km				
	KJN	eP	06 39 14				Alaska aftershock				
	KEV	iP	06 38 32.9 D	0.9	30.8						
		e	40								
	H: 06 29 17.4					28	NUR	eP	06 51 57	0.9	25.5
	57.7 N, 150.8 W, 20 km						SOD	iP	06 51 11.1		
	Alaska aftershock						KJN	eP	06 51 36	1.0	31.6
28	SOD	eP	06 40 06								
	KJN	eP	06 40 29			28	NUR	eP	06 53 15	1.0	26.4
28	NUR	iP	06 42 39.2	0.9	67.6		SOD	iP	06 52 27.1		
	SOD	iP	06 41 51.0 U				KJN	eP	06 52 49		
		i	57.3					e	57		
	KJN	iP	06 42 15.5 U	0.9	63.3		KEV	iP	06 52 09.0	0.8	22.1
	KEV	iP	06 41 33.1	0.9	54.7	28	NUR	iP	06 54 13.4 D	1.5	606.7
	H: 06 32 38.6							e	21		
	60.1 N, 147.6 W, 33 km						SOD	iP	06 53 26.0 D		
	Alaska aftershock						KJN	iP	06 53 49.2 D	1.5	389.1
28	SOD	eP	06 42 12					i	51.9		
								eS	07 01 49		
28	SOD	eP	06 42 45				KEV	iP	06 53 07.1	1.6	360.8
	KJN	eP	06 43 09	0.7	10.6			ePcP	54 19		
							H: 06 43 57.4				
							58.3 N, 151.3 W, 25 km				
							Alaska aftershock				
28	NUR	iP	06 47 13.1	0.9	37.4	28	SOD	iP	06 56 28.6		
	SOD	iP	06 46 25.7 U					i	33.5		
		i	31.0								
	KJN	iP	06 46 48.8 U	1.0	55.6	28	SOD	eP	06 59 17		
		e	47 26				KEV	eP	06 58 59	1.0	20.4
	KEV	iP	06 46 07.0 U	0.9	59.9						
	H: 06 36 55.2					28	NUR	eP	07 01 12		
	57.9 N, 151.5 W, 33 km						SOD	eP	07 00 25		
	Alaska aftershock							i	29.6		
							KJN	eP	07 00 48	1.1	20.3
28	NUR	eP	06 50 24					e	57		
	SOD	eP	06 49 34					i	01.07.5 U		
	KJN	eP	06 49 58	1.2	18.5				cont.		

March				T	A	March				T	A
	KEV	eP	07 00 06			28	NUR	eP	07 14 26	0.8	21.9
		e	12				SOD	eP	07 13 38		
		e	19				KJN	eP	07 14 02	1.0	19.6
	H: 06 50 48.9							e	16		
	57.1 N, 152.3 W, 33 km						KEV	eP	07 13 21		
	Alaska aftershock					28	NUR	eP	07 17 19		
28	NUR	iP	07 03 48.4	1.0	136.0	28	NUR	iP	07 19 14.5 D	1.2	69.4
		e	55				SOD	iP	07 18 26.0 D		
	SOD	iP	07 03 00.1 D				KJN	iP	07 18 50.2 D	1.1	47.3
		i	05.7					e	57		
	KJN	iP	07 03 24.3 D	1.0	78.5			ePcP	19 47		
		i	31.1 U				KEV	iP	07 18 07.8 D	1.0	42.8
		iPcP	04 23.4 U				H: 07 09 12.0				
	KEV	iP	07 02 42.2	0.7	28.8		60.0 N, 147.5 W, 33 km				
		e	48				Alaska aftershock				
	H: 06 53 35.6					28	NUR	iP	07 20 33.9 D	1.1	325.4
	58.8 N, 149.5 W, 20 km							i	41.7	1.3	1100.8
	Alaska aftershock							eS	28 50		
28	NUR	eP	07 05 33	0.8	16.1			eP'P'	49 57		
	SOD	eP	07 04 45				SOD	iP	07 19 46.0 D		
		e	50					e	51		
	KJN	eP	07 05 08	0.8	15.0			eS	27 21		
		e	15					eP'P'	49 34		
	KEV	eP	07 04 27				KJN	iP	07 20 10.8 D	1.1	214.7
		e	34					i	15.6 D		
28	NUR	eP	07 09 10					e	43		
	SOD	eP	07 08 21					e	55		
	KJN	eP	07 08 45	0.9	11.0			ePcP	21 11		
28	NUR	iP	07 10 19.5	0.8	17.5			e	31		
		e	27					ePP	22 12		
	SOD	iP	07 09 33.0 U					eS	28 07		
		e	40					eP'P'	50 07		
	KJN	eP	07 09 56	0.9	13.8		KEV	iP	07 19 28.0	1.1	87.5
		e	10 04					e	34		
	KEV	eP	07 09 15					eS	26 49		
28	KJN	eP	07 10 50				H: 07 10 21.4				
							58.8 N, 149.5 W, 20 km				
							Alaska aftershock				
28	NUR	iP	07 12 44.8	0.9	35.7	28	NUR	eP	07 25 15	1.1	26.5
		e	50				SOD	iP	07 24 26.5		
	SOD	iP	07 11 56.8				KJN	eP	07 24 51	0.7	11.3
		e	26					e	25 07		
	KJN	eP	07 12 21	0.9	22.9		KEV	eP	07 24 07		
		e	26			28	NUR	iP	07 26 34.0 U	1.3	68.8
	KEV	eP	07 11 38	0.9	18.8		SOD	iP	07 25 46.5 U		
28	NUR	iP	07 14 01					i	51.1		
									cont.		

March					March						
				T	A				T	A	
28	NUR	eP	08 00 50	0.8	14.6	28	NUR	eP	08 25 45	1.1	16.9
	SOD	iP	08 00 02.5				SOD	iP	08 24 57.0		
	KJN	eP	08 00 26	0.8	11.9		KJN	eP	08 25 21	0.7	10.6
	KEV	eP	07 59 45	0.7	11.8		KEV	eP	08 24 41	1.0	20.4
28	NUR	eP	08 02 35	0.8	11.7	28	NUR	eP	08 35 23		
	SOD	iP	08 01 48.5				SOD	eP	08 34 35		
	KJN	iP	08 02 11.6	0.7	8.3		KJN	eP	08 35 00	0.8	6.3
		e	29								
	KEV	eP	08 01 30	0.7	10.5	28	SOD	eP	08 36 41		
	H: 07 52 00.8					28	NUR	eP	08 38 40		
	57.1 N, 154.0 W, 33 km										
	Alaska aftershock					28	NUR	eP	08 40 10	0.7	6.5
28	NUR	eP	08 05 24					ePcP	41 01		
	SOD	iP	08 04 36.1				SOD	iP	08 39 22.1 D		
	KJN	eP	08 04 58					e	40 10		
		i	59.8				KJN	eP	08 39 47	0.6	9.1
	KEV	eP	08 04 18	1.0	12.2			e	40 21		
	H: 07 55 08.4						KEV	iP	08 39 03.5	0.6	9.0
	58.4 N, 150.1 W, 25 km						H: 08 30 11.7				
	Alaska aftershock						60.5 N, 147.0 W, 33 km				
							Alaska aftershock				
28	NUR	eP	08 09 59	0.8	21.9	28	NUR	iP	08 42 30.2	0.8	10.2
	SOD	iP	08 09 11.4				SOD	iP	08 41 42.0		
	KJN	eP	08 09 35	0.9	16.5		KJN	eP	08 42 07	0.8	7.1
		e	56				H: 08 32 33.7				
	KEV	eP	08 08 53	0.7	9.2		61.0 N, 143.1 W, 15 km				
	H: 07 59 40.7						Alaska aftershock				
	57.9 N, 150.3 W, 25 km					28	NUR	iP	08 44 04.2	1.0	71.7
	Alaska aftershock							e	10		
28	NUR	eP	08 15 20				SOD	iP	08 43 16.2		
	SOD	iP	08 14 48.1					i	23.1		
	KJN	eP	08 15 12	1.2	15.1		KJN	eP	08 43 39		
28	NUR	eP	08 18 29	0.9	8.5			i	40.6 U	0.9	31.2
	SOD	iP	08 17 40.3					i	46.5 D		
	KJN	iP	08 18 05.1	1.0	12.0		KEV	eP	08 42 58	0.5	20.1
	KEV	iP	08 17 22.0	0.6	10.2			i	43 04.5	1.2	122.6
	H: 08 33 47.0						H: 08 33 47.0				
	58.1 N, 151.1 W, 25 km						58.1 N, 151.1 W, 25 km				
	Alaska aftershock						Alaska aftershock				
28	NUR	eP	08 23 15			28	NUR	eP	08 47 16	0.9	17.0
	SOD	eP	08 22 27				SOD	iP	08 46 29.0		
	KJN	eP	08 22 50				KJN	eP	08 46 53	0.9	11.0
	H: 08 13 09.5							e	47 02		
	59.6 N, 148.8 W, 33 km						KEV	eP	08 46 15	0.9	12.0
	Alaska aftershock					28	SOD	iP	08 48 49.0		
28	NUR	eP	08 25 07	0.9	10.2						
	SOD	iP	08 24 18.4								
	KJN	eP	08 24 42	0.8	7.9						
	KEV	eP	08 24 01	0.7	7.9						

March				T	A	March				T	A
28	NUR	eP	10 14 36			28	NUR	eP	10 37 31	1.1	14.4
28	NUR	iP	10 19 42.3	0.9	11.8		SOD	iP	10 36 42.6		
	SOD	eP	10 19 11				KJN	eP	10 36 54		
	KEV	eP	10 18 58	0.5	10.7	28	SOD	eP	10 41 22		
	H: 10 08 42.7										
	43.0 N, 101.6 W, 16 km					28	NUR	iP	10 43 18.5 D	0.7	51.6
	Nebraska-South Dakota						SOD	iP	10 42 31.0 D		
28	NUR	eP	10 22 28	0.9	15.2		e		43 12		
	SOD	eP	10 21 40				KJN	iP	10 42 54.2 D	0.9	45.9
28	NUR	iP	10 25 50.0	1.1	28.8		i		43 01.3 U		
	SOD	eP	10 25 02				e		08		
	KEV	eP	10 24 43	1.0	18.4		i		36.2		
	H: 10 15 41.9						KEV	iP	10 42 13.0	0.9	27.4
	59.6 N, 149.4 W, 20 km						H: 10 33 00.2				
	Alaska aftershock						57.7 N, 152.2 W, 35 km				
							Alaska aftershock				
28	SOD	eP	10 26 42			28	NUR	eP	10 45 27	1.0	20.3
	KJN	eP	10 27 05	0.9	9.2		SOD	eP	10 44 39		
	H: 10 17 27.7						KJN	eP	10 45 03	1.1	24.3
	60.3 N, 146.6 W, 15 km						i		36.5		
	Alaska aftershock						KEV	eP	10 44 20		
28	NUR	iP	10 28 17.8 U	0.9	42.2		H: 10 35 31.2				
	SOD	iP	10 27 30.5 U				60.9 N, 143.7 W, 25 km				
	KJN	iP	10 27 53.3	1.0	28.3		Alaska aftershock				
	e		28 10			28	NUR	eP	10 46 01 D	0.8	220.4
	KEV	iP	10 27 12.0	0.8	19.1		e		54 29		
	H: 10 17 48.5						eP'P'		11 15 04		
	56.6 N, 152.2 W, 15 km						SOD	iP	10 45 13.7 D		
	Alaska aftershock						ePP		47 20		
28	NUR	eP	10 30 49				eS		52 59		
	SOD	eP	10 30 01				eScS		55 12		
	i		08.7				eP'P'		11 15 08		
	KJN	eP	10 30 24				KJN	iP	10 45 36.7 D	0.9	169.6
	e		31				ePcP		46 26		
	H: 10 20 30						e		53		
	57.7 N, 152.2 W, 33 km						eS		53 44		
	Alaska aftershock						eP'P'		11 15 09		
28	NUR	iP	10 35 45.7	1.0	22.2		KEV	iP	10 44 55.4 D	1.0	318.2
	SOD	eP	10 34 58				eS		52 27		
	i		35 06.4				H: 10 35 38.9				
	KJN	eP	10 35 21	1.0	15.3		57.2 N, 152.4 W, 33 km				
	e		27				Alaska aftershock				
	H: 10 25 34					28	NUR	eP	10 54 02	1.3	41.0
	58.8 N, 149.8 W, 33 km						e		09		
	Alaska aftershock						SOD	eP	10 53 13		
							KJN	eP	10 53 37		
							e		45		

March				T	A	March				T	A
28	NUR	eP	10 59 35	1.1	10.8	28	NUR	eP	11 14 33	0.8	11.8
	SOD	eP	10 58 47				SOD	eP	11 13 46		
		e	52				KJN	eP	11 14 09		
	KJN	eP	10 59 11				KEV	eP	11 13 35		
	H: 10 49 23.2						H: 11 04 16.3				
	59.1 N, 148.3 W, 15 km						58.0 N, 151.4 W, 33 km				
	Alaska aftershock						Alaska aftershock				
28	NUR	eP	11 00 51	0.8	8.7	28	NUR	eP	11 17 28	1.0	12.1
	SOD	eP	11 00 03				SOD	iP	11 16 40.4		
28	NUR	iP	11 03 47.9	1.1	21.6		KJN	eP	11 17 04	0.8	11.1
		e	54				H: 11 07 13.2				
	SOD	iP	11 02 59.5				58.3 N, 150.7 W, 33 km				
	KJN	eP	11 03 23	1.0	16.4		Alaska aftershock				
		e	29			28	NUR	iP	11 18 29.9	1.1	153.6
	KEV	eP	11 02 47	0.8	16.2		SOD	iP	11 17 41.3 D		
	H: 10 53 44.8						KJN	iP	11 18 05.4 D	0.9	85.3
	60.1 N, 147.6 W, 20 km							i	13.1		
	Alaska aftershock							e	50		
								iPcP	19 04.2		
								e	31		
28	NUR	eP	11 07 16				KEV	iP	11 17 24.0 D	1.1	106.9
	SOD	eP	11 06 31					ePcP	18 42		
	KJN	eP	11 06 55	0.8	12.6		H: 11 08 26.0				
	KEV	eP	11 06 13	0.8	23.5		60.1 N, 148.4 W, 15 km				
	H: 10 57 18.1						Alaska aftershock				
	60.6 N, 144.7 W, 33 km					28	SOD	eP	11 23 20		
	Alaska aftershock										
28	NUR	eP	11 09 37	0.8	40.6	28	NUR	eP	11 25 01		
	SOD	iP	11 08 49.8 D				SOD	eP	11 24 15		
		e	54			28	NUR	eP	11 26 35		
	KJN	eP	11 09 11	1.0	40.3		SOD	eP	11 25 45		
		i	13.3				KJN	eP	11 26 12		
		e	19			28	SOD	eP	11 29 19		
	KEV	iP	11 08 31.5	0.7	21.0						
	H: 10 59 16.3					28	NUR	eP	11 35 12	0.9	6.8
	57.4 N, 151.6 W, 30 km							i	25.0 U	0.7	37.4
	Alaska aftershock							e	34		
							SOD	iP	11 34 38.0		
28	NUR	eP	11 12 39					i	47.0		
	SOD	eP	11 11 51				KJN	iP	11 35 00.9	0.9	22.0
	KJN	eP	11 12 14	1.0	6.5			e	05		
		e	50				KEV	iP	11 34 20.2	0.8	32.3
	KEV	eP	11 11 40					e	29		
	H: 11 02 22.7						H: 11 24 57.5				
	58.2 N, 149.9 W, 30 km						56.4 N, 149.7 W, 25 km				
	Alaska aftershock						Alaska aftershock				

March				T	A	March				T	A
28	NUR	eP	11 36 58			28	NUR	iP	12 13 18.6	0.7	19.4
	SOD	eP	11 36 10				e	14 18			
28	SOD	eP	11 40 28				SOD	eP	12 12 30		
							ePcP	13 31			
28	NUR	eP	11 42 30	1.1	38.4		KJN	eP	12 12 53		
	e		43 08	1.1	38.4		i	54.8	0.7	26.4	
	SOD	iP	11 41 42.5				e	14 50			
	e		42 03				KEV	iP	12 12 12.1	0.6	24.3
	KJN	eP	11 42 06	1.0	20.7		H:	12 03 16.5			
	i		27.1	0.7	12.0		60.3 N, 146.6 W, 15 km				
	KEV	eP	11 41 25	0.8	11.8		Alaska aftershock				
	H:	11 32 19.0				28	SOD	eP	12 15 22		
	59.0 N, 149.5 W, 20 km										
	Alaska aftershock					28	NUR	eP	12 17 21	0.8	4.4
28	SOD	eP	11 43 01				SOD	eP	12 16 34		
	KJN	iP	11 43 00.2 U	1.0	101.4		KJN	eP	12 16 57	0.8	6.3
	H:	11 30 09.8									
	0.5 N, 122.3 E, 140 km					28	NUR	eP	12 20 59	0.9	16.9
	Northern Celebes						e	21 06			
28	NUR	iP	11 43 39.0 U	1.9	277.2		SOD	iP	12 20 12.0		
	SOD	iP	11 43 31.0 U				i	18.5			
	KJN	iP	11 43 31.1 U	1.5	657.6		KJN	iP	12 20 35.2	0.9	21.1
	KEV	iP	11 43 29.5	1.5	167.0		e	42			
							e	50			
28	NUR	eP	11 52 29	0.7	3.9		KEV	eP	12 19 54	1.0	24.5
	SOD	eP	11 51 42			28	NUR	eP	12 31 17	1.2	414.7
28	NUR	eP	11 52 52	0.8	13.0		e	32 45			
	SOD	eP	11 52 04				eS	39 49			
	KJN	iP	11 52 27.9	0.9	17.4		eP'P'	13 00 07			
28	NUR	iP	12 00 18.1	1.1	62.4		SOD	iP	12 30 30.1		
	e		25				eS	38 21			
	SOD	iP	11 59 30.2 D				eP'P'	13 00 19			
	i		37.3				KJN	iP	12 30 53.0 D	1.1	252.5
	KJN	iP	11 59 54.0	1.1	50.0		i	32 07.9 U			
	e		12 00 01				i	33 01.6 D			
	KEV	eP	11 59 12	1.1	34.0		eS	39 06			
	e		19				eP'P'	13 00 05			
	H:	11 50 01.9					e	26			
	58.2 N, 149.8 W, 25 km						KEV	eP	12 30 13	1.2	315.4
	Alaska aftershock						eS	37 48			
							H:	12 20 49.8			
							56.5 N, 154.0 W, 25 km				
							Alaska aftershock				
28	NUR	eP	12 04 52			28	NUR	eP	12 36 10	0.9	71.0
	SOD	iP	12 04 03.1				e	16			
28	NUR	eP	12 06 24				SOD	iP	12 35 22.0		
	SOD	eP	12 05 37				i	28.0			
							KJN	iP	12 35 45.8 U	1.0	70.9
							i	51.0 U			
							KEV	iP	12 35 04.0	1.0	49.0

March				T	A	March				T	A		
28	NUR	eP	12 41 45			KJN	iP	13 10 53.1	0.8	22.1			
	SOD	eP	12 40 53				i	59.3 U					
	H: 12 31 29.8					KEV	iP	13 10 11.2	1.1	46.2			
	59.1 N, 149.6 W, 20 km						e	17					
	Alaska aftershock						e	11 47					
28	SOD	eP	12 43 40			H: 13 01 14.2							
						60.1 N, 147.0 W, 20 km							
						Alaska aftershock							
28	NUR	eP	12 45 21	0.8	7.2	28	NUR	eP	13 22 12	1.0	8.1		
	SOD	iP	12 44 33.7				SOD	iP	13 21 24.8				
28	NUR	eP	12 46 50	1.0	18.2		KJN	eP	13 21 49	0.9	9.2		
	SOD	eP	12 46 03				KEV	eP	13 21 06	0.8	8.8		
	KJN	eP	12 46 26	0.9	10.1								
	KEV	eP	12 45 45			28	SOD	eP	13 25 28				
							KJN	eP	13 25 52	0.6	3.8		
28	NUR	eP	12 49 34			28	SOD	eP	13 29 36				
	SOD	eP	12 48 47										
		e	49 03			28	NUR	eP	13 37 42	1.0	44.4		
	KJN	eP	12 49 09				SOD	iP	13 36 53.0				
		e	25				KJN	iP	13 37 17.2 D	1.1	81.0		
	KEV	eP	12 48 28					i	24.9				
							KEV	iP	13 36 34.9	1.0	51.0		
28	NUR	eP	12 58 33			H: 13 27 38.5							
	SOD	eP	12 57 45			60.3 N, 147.1 W, 15 km							
	KJN	eP	12 58 09			Alaska aftershock							
	H: 12 48 34					28	NUR	eP	13 48 43				
	60.5 N, 145.9 W, 33 km						SOD	eP	13 47 56				
	Alaska aftershock												
28	SOD	eP	12 59 42			28	SOD	eP	13 51 21				
28	SOD	eP	13 01 36			28	SOD	eP	13 51 56				
28	NUR	eP	13 04 21				e	52 04					
	SOD	iP	13 03 32.8										
	KJN	eP	13 03 56	0.9	17.4	28	NUR	eP	13 54 33	0.9	10.1		
28	NUR	eP	13 06 18				SOD	iP	13 53 45.0				
	SOD	eP	13 05 33				KJN	eP	13 54 09	0.9	10.1		
							e	31					
28	NUR	eP	13 10 26			H: 13 44 11.0							
	SOD	eP	13 09 39			57.5 N, 152.3 W, 25 km							
	KJN	eP	13 10 03			Alaska aftershock							
28	NUR	eP	13 11 17	1.0	24.2								
	i		24.0			28	NUR	eP	13 55 56				
	SOD	iP	13 10 29.1				SOD	eP	13 55 09				
		i	35.5				e	18					
		e	11 12				KJN	eP	13 55 35				
							e	42					
	cont.												

March						March					
				T	A					T	A
28	NUR	eP	13 58 02	1.0	22.2	28	NUR	eP	14 41 48		
	SOD	eP	13 57 15				KJN	eP	14 41 28		
		e	18								
	KJN	eP	13 57 42	1.0	15.3	28	NUR	iP	14 43 33.0 U	0.9	43.9
		e	49				SOD	iP	14 42 45.4 U		
	KEV	eP	13 57 01	0.8	13.2			i	53.8		
	H: 13 47 37.0						KJN	iP	14 43 08.9 U	0.9	34.8
	57.0 N, 152.8 W, 15 km							i	17.8		
	Alaska aftershock						KEV	eP	14 42 27	0.9	23.9
								e	35		
28	NUR	eP	14 03 34	0.9	13.5		H: 14 33 13.6				
		e	41				57.8 N, 152.1 W, 25 km				
	SOD	iP	14 02 47.4 U				Alaska aftershock				
		i	54.2			28	SOD	eP	14 48 21		
	KJN	eP	14 03 10	1.0	13.1		KJN	eP	14 48 44		
		e	17								
	KEV	iP	14 02 29.2	0.8	25.0	28	NUR	iP	14 51 56.2	0.6	6.3
		e	37				SOD	iP	14 51 07.8		
28	NUR	eP	14 04 31				KJN	iP	14 51 31.8	0.7	9.1
	SOD	eP	14 03 42			28	NUR	eP	14 56 39	0.7	15.5
	KJN	eP	14 04 06	1.0	8.7		SOD	eP	14 55 48		
28	NUR	iP	14 12 25.4 U	0.8	58.0			i	54.7		
	SOD	iP	14 11 38.3 U				KJN	eP	14 56 17		
		i	46.1				KEV	eP	14 55 37	0.7	14.4
	KJN	iP	14 12 01.4 U	0.9	25.7		H: 14 46 19.2				
		e	12				57.8 N, 151.3 W, 33 km				
	KEV	iP	14 11 21.0	0.9	59.9		Alaska aftershock				
		e	29			28	NUR	eP	14 56 59		
	H: 14 01 57.6						SOD	iP	14 56 11.1		
	56.5 N, 154.4 W, 25 km						KJN	iP	14 56 34.7		
	Alaska aftershock						KEV	eP	14 55 52		
28	NUR	eP	14 24 02				H: 14 46 33.6				
	SOD	eP	14 23 13				56.7 N, 153.6 W, 33 km				
	KJN	eP	14 23 37	0.8	8.7		Alaska aftershock				
28	NUR	eP	14 28 35	1.0	14.1	28	NUR	eP	14 57 39	0.9	111.5
	SOD	eP	14 27 47					eP'P'	15 27 15		
	KJN	eP	14 28 11	1.1	14.9		SOD	iP	14 56 50.1 U		
	H: 14 18 16.1							eS	15 04 25		
	58.0 N, 149.7 W, 20 km						KJN	iP	14 57 14.0 U	1.0	125.4
	Alaska aftershock							i	38.6		
28	NUR	eP	14 31 19					eS	15 05 11		
	SOD	iP	14 30 31.2					eP'P'	27 23		
	KJN	eP	14 30 54				KEV	iP	14 56 32.1	0.9	188.1
28	NUR	eP	14 40 31	1.2	14.4			ePcP	57 53		
	SOD	eP	14 39 42				H: 14 47 37.1				
	KJN	eP	14 40 06				60.4 N, 146.5 W, 10 km				
							Alaska aftershock				

March				T	A	March				T	A
28	NUR	eP	14 59 17	1.0	121.2	28	NUR	eP	15 32 08		
		eP'P'	15 28 40				SOD	eP	15 31 20		
	SOD	iP	14 58 27.0				KJN	eP	15 31 44	0.5	4.1
		eS	15 06 05								
	KJN	iP	14 58 51.1			28	NUR	eP	15 32 38	0.8	14.5
		i	59 53.8				SOD	iP	15 31 50.2		
		eS	15 06 46				KJN	iP	15 32 14.7 U	0.7	16.6
	KEV	eP	14 58 09	1.0	71.4		KEV	iP	15 31 32.3	0.7	17.0
		eS	15 05 24								
		H:	14 49 13.7					H:	15 22 36.4		
			60.4 N, 147.1 W, 10 km						60.4 N, 146.8 W, 15 km		
			Alaska aftershock						Alaska aftershock		
28	SOD	iP	15 08 08.4			28	NUR	eP	15 37 01		
								e	09		
28	NUR	iP	15 10 53.2	0.8	27.6		SOD	eP	15 36 12		
	SOD	iP	15 10 06.0 D				KJN	eP	15 36 36	0.8	7.1
	KJN	iP	15 10 29.4 D	1.0	24.0	28	NUR	eP	15 37 26	0.9	16.9
	KEV	eP	15 09 48	0.8	20.6		SOD	iP	15 36 37.4		
28	SOD	eP	15 12 47				KJN	iP	15 36 56.7	0.9	18.3
	KJN	eP	15 13 10				KEV	eP	15 36 19	1.0	22.4
								H:	15 27 30.1		
28	NUR	eP	15 17 38						61.0 N, 149.0 W, 33 km		
	SOD	eP	15 16 50						Alaska aftershock		
	KJN	eP	15 17 14			28	NUR	eP	15 41 16		
28	NUR	eP	15 20 05				SOD	eP	15 40 20		
	SOD	eP	15 19 18					e	28		
	KJN	eP	15 19 41				KJN	eP	15 40 44		
28	NUR	eP	15 20 28	0.8	7.3	28	NUR	eP	15 44 16	0.8	7.3
		e	36				SOD	iP	15 43 28.0		
	SOD	iP	15 19 40.3				KJN	eP	15 43 51	0.8	7.1
		e	48					H:	15 34 10.4		
	KJN	eP	15 20 04	0.7	6.8				59.5 N, 146.7 W, 33 km		
		e	12						Alaska aftershock		
	KEV	eP	15 19 22			28	SOD	eP	15 44 11		
28	NUR	eP	15 28 54				KJN	eP	15 44 36	0.7	5.3
	SOD	eP	15 28 05			28	SOD	eP	15 44 56		
	KJN	eP	15 28 30				KJN	eP	15 45 20	0.5	7.4
28	NUR	eP	15 30 53			28	NUR	eP	15 46 37	1.3	23.9
	SOD	eP	15 30 05					e	45		
	KJN	eP	15 30 28	0.8	7.1		SOD	iP	15 45 50.6		
		e	35					i	58.0		
	KEV	eP	15 29 47				KJN	eP	15 46 14	1.1	20.3
		H:	15 20 28.6					e	21		
			57.4 N, 151.3 W, 20 km				KEV	eP	15 45 32	1.0	22.4
			Alaska aftershock					H:	15 36 22.3		
									58.3 N, 150.9 W, 25 km		
									Alaska aftershock		

March

March

March				T	A	March				T	A
28	NUR	eP	15 50 15			28	NUR	eP	16 19 55		
	SOD	eP	15 49 26				SOD	eP	16 19 06		
	H: 15 39 44.1						KJN	eP	16 19 31	0.7	5.3
	56.0 N, 159.7 W, 33 km										
	Alaska aftershock					28	NUR	iP	16 21 18.0	0.9	11.8
28	NUR	eP	15 52 52				e		25		
	SOD	eP	15 52 03				SOD	iP	16 20 30.3		
	H: 15 42 53.5						KJN	eP	16 20 54	0.9	9.2
	60.6 N, 147.1 W, 33 km					28	SOD	eP	16 24 20		
	Alaska aftershock						KJN	eP	16 24 45	0.9	5.5
28	NUR	eP	15 54 04	0.7	3.9		H: 16 15 02.9				
	SOD	iP	15 53 17.4				59.6 N, 149.6 W, 33 km				
	KJN	eP	15 53 41				Alaska aftershock				
	H: 15 43 45.3					28	NUR	eP	16 27 42	1.0	6.1
	57.6 N, 151.6 W, 33 km						SOD	eP	16 26 55		
	Alaska aftershock						KJN	eP	16 27 19		
28	NUR	eP	15 56 11	1.0	10.1	28	NUR	eP	16 32 12		
	SOD	eP	15 55 23				SOD	eP	16 31 23		
	e		33				KJN	eP	16 31 47	0.8	4.7
	KJN	eP	15 55 46			28	SOD	eP	16 35 11		
28	NUR	iP	16 02 03.9	1.1	67.2	28	NUR	eP	16 36 39	1.0	10.1
	SOD	iP	16 01 15.8				H: 16 26 16.9				
	KJN	iP	16 01 39.6	1.0	20.7		57.5 N, 150.9 W, 30 km				
	H: 15 51 50.7						Alaska aftershock				
	58.8 N, 149.9 W, 20 km					28	SOD	iP	16 36 05.0		
	Alaska aftershock						KJN	eP	16 36 23		
28	NUR	eP	16 05 33	0.9	10.1		i		28.5		
	SOD	iP	16 04 45.0				KEV	eP	16 35 49		
	KJN	eP	16 05 09	0.7	7.6	28	NUR	iP	16 38 24.0	0.9	23.7
	H: 15 55 25.8						SOD	iP	16 37 35.7		
	59.7 N, 146.3 W, 10 km						KJN	iP	16 37 59.7 D	0.8	14.2
	Alaska aftershock					28	NUR	iP	16 54 44.1 U	1.0	52.5
28	NUR	eP	16 14 56				i		50.9		
	SOD	eP	16 14 09				SOD	iP	16 53 55.8 U		
	KJN	eP	16 14 32				i		54 02.4		
	H: 16 04 33.8						KJN	iP	16 54 19.7 U	1.1	62.1
	57.5 N, 150.8 W, 20 km						i		26.3 U		
	Alaska aftershock						KEV	iP	16 53 38.0	0.9	35.9
28	NUR	eP	16 18 10				e		44		
	SOD	eP	16 17 31				H: 16 44 35.9				
	KJN	eP	16 17 58	1.0	4.4		59.3 N, 147.8 W, 25 km				
							Alaska aftershock				

March						March					
				T	A					T	A
28	NUR	eP	16 58 19	1.0	12.1	28	NUR	eP	17 49 40	1.1	12.0
	SOD	iP	16 57 32.2				SOD	eP	17 48 51		
	KJN	eP	16 57 55	0.8	7.9		KJN	eP	17 49 16		
		i	58 07.9 D								
28	SOD	eP	17 00 19			28	NUR	eP	17 57 18		
							SOD	iP	17 56 30.1		
							KJN	eP	17 56 53	1.1	12.2
28	SOD	eP	17 02 14				KEV	eP	17 56 12	1.1	26.7
	KJN	eP	17 02 38	0.6	3.8		H:		17 47 17.0		
									60.4 N, 145.7 W, 15 km		
28	NUR	eP	17 03 33	0.8	7.3				Alaska aftershock		
	SOD	eP	17 02 45			28	NUR	iP	18 00 12.0	0.8	10.2
	KJN	eP	17 03 09	0.7	6.0			e	17		
28	NUR	eP	17 16 07				SOD	eP	17 59 24		
	SOD	eP	17 15 18					i	30.0		
	KJN	eP	17 15 42				KJN	eP	17 59 48	0.9	13.8
								e	54		
28	NUR	eP	17 23 48				KEV	eP	17 59 06	0.8	10.3
								e	13		
28	NUR	eP	17 25 11	1.1	9.6		H:		17 49 49.7		
	SOD	eP	17 24 17						57.7 N, 150.2 W, 15 km		
	KJN	eP	17 24 41	0.9	6.4				Alaska aftershock		
	KEV	eP	17 23 59								
	H:		17 14 59.0			28	SOD	eP	18 05 55		
			59.0 N, 148.6 W, 33 km				KJN	eP	18 06 19		
			Alaska aftershock								
28	SOD	eP	17 25 35			28	SOD	eP	18 12 13		
							KJN	eP	18 12 37		
28	SOD	iP	17 30 45.8				H:		18 02 54.9		
		e	57						59.5 N, 149.3 W, 33 km		
	KJN	eP	17 31 09	0.9	6.4				Alaska aftershock		
28	SOD	eP	17 34 55			28	NUR	eP	18 13 55	1.0	42.4
	KJN	eP	17 35 13				SOD	eP	18 13 08		
								i	12.8		
28	NUR	eP	17 36 45				KJN	eP	18 13 30	1.0	9.8
	SOD	eP	17 35 56					e	36	1.4	66.7
	KJN	eP	17 36 18				KEV	eP	18 12 55	1.2	38.0
28	NUR	eP	17 37 31			28	NUR	iP	18 16 37.2	0.8	17.4
	SOD	eP	17 36 43				SOD	eP	18 15 50		
	KJN	eP	17 37 06	0.8	4.7		KJN	eP	18 16 11	1.0	15.3
							KEV	eP	18 15 32	1.1	17.0
28	NUR	eP	17 46 48	1.1	16.8	28	NUR	eP	18 18 38		
	SOD	eP	17 46 01								
		i	06.1			28	SOD	eP	18 20 24		
	KJN	eP	17 46 24	1.1	18.9		KJN	eP	18 20 48		

March				T	A	March				T	A
28	SOD	eP	18 21 38			28	NUR	eP	19 13 53	0.9	6.8
	KJN	eP	18 22 05				SOD	eP	19 13 05		
							KJN	eP	19 13 29	0.9	8.3
28	NUR	eP	18 24 20	1.2	14.4	28	NUR	eP	19 17 52	0.9	6.8
	SOD	eP	18 23 32				SOD	eP	19 17 04		
	KJN	eP	18 23 55	1.2	11.8		KJN	eP	19 17 27	0.8	6.3
28	NUR	eP	18 28 42			28	NUR	eP	19 21 08		
	SOD	eP	18 27 54				SOD	eP	19 20 22		
	KJN	eP	18 28 17				KJN	eP	19 20 49	1.0	9.8
		e	25								
28	NUR	eP	18 34 06			28	NUR	eP	19 27 33		
	SOD	eP	18 33 19				SOD	eP	19 26 44		
	KJN	eP	18 33 42	0.8	6.3	28	NUR	eP	19 31 28	1.1	12.0
	H: 18 24 02.2						e		39		
	60.1 N, 149.5 W, 15 km						SOD	iP	19 30 39.8		
	Alaska aftershock						KJN	eP	19 31 03	0.8	8.7
28	NUR	eP	18 36 20				KEV	eP	19 30 21	0.7	11.8
	SOD	eP	18 35 31				H: 19 21 38.8				
		e	38				61.6 N, 146.7 W, 45 km				
	KJN	eP	18 35 52				Alaska aftershock				
28	NUR	eP	18 48 12			28	NUR	eP	19 39 20	1.0	10.1
	SOD	eP	18 47 31				SOD	eP	19 38 32		
28	NUR	eP	18 50 27				H: 19 29 02.4				
	SOD	eP	18 49 38				58.1 N, 150.4 W, 20 km				
	KJN	eP	18 49 59				Alaska aftershock				
28	NUR	eP	18 56 55			28	NUR	eP	19 39 56		
	SOD	eP	18 56 06				KJN	eP	19 39 27		
		e	12			28	NUR	eP	19 55 52	0.9	6.8
	KJN	eP	18 56 28				SOD	eP	19 55 04		
	H: 18 46 53.4						KJN	eP	19 55 27	0.9	4.6
	60.5 N, 148.4 W, 20 km						H: 19 45 21.4				
	Alaska aftershock						56.4 N, 152.6 W, 20 km				
							Alaska aftershock				
28	NUR	eP	19 11 56	1.1	9.6	28	NUR	eP	20 15 42	1.3	17.1
	SOD	iP	19 11 08.0				SOD	eP	20 14 53		
	KJN	eP	19 11 32	0.9	5.5		KJN	eP	20 15 16		
	H: 19 01 51.5						H: 20 05 45				
	60.1 N, 146.9 W, 15 km						60.6 N, 144.5 W, 33 km				
	Alaska aftershock						Alaska aftershock				
28	NUR	eP	19 12 30	0.8	10.2	28	SOD	eP	20 24 26		
	SOD	eP	19 11 42				KJN	eP	20 24 27	0.5	9.1
	KJN	eP	19 12 06	0.8	7.9	28	SOD	eP	20 27 45		
							KJN	eP	20 28 09		

March				T	A	March				T	A
28	NUR	eP	20 29 06			28	NUR	eP	21 39 01		
	SOD	eP	20 28 16				SOD	iP	21 38 12.2		
28	NUR	eP	20 33 51				KJN	eP	21 38 36	1.1	10.8
							KEV	eP	21 37 53		
28	NUR	iP	20 39 11.2	1.0	985.2	28	NUR	eP	21 40 32	1.1	16.8
		eS	47 22				SOD	eP	21 39 45		
		eP'P'	21 08 45				KJN	eP	21 40 08	1.2	16.8
	SOD	iP	20 38 23.0			28	SOD	eP	21 45 03		
		eS	45 55				KJN	eP	21 45 22		
		eScS	48 14			28	SOD	eP	21 47 07		
		eP'P'	21 08 32				KJN	eP	21 47 31		
	KJN	iP	20 38 47.2 U				H:	21 37 48.7			
		i	39 22.7					59.6 N, 145.6 W, 20 km			
		i	41 22.2					Alaska aftershock			
		iPPP	42 03.5			28	NUR	eP	22 08 22	0.8	14.5
		eS	46 41				SOD	eP	22 07 35		
		eScS	48 38				KJN	eP	22 07 59	1.0	10.9
		eP'P'	21 08 42				e	08 06			
	KEV	iP	20 38 04.4 U	1.0	550.8		KEV	eP	22 07 17		
		ePP	40 00				H:	21 57 54.3			
		eS	45 21					56.4 N, 152.6 W, 33 km			
		H:	20 29 08.6					Alaska aftershock			
			59.8 N, 148.7 W, 40 km			28	NUR	eP	22 12 45		
			Alaska aftershock				KJN	eP	22 12 22		
28	SOD	eP	20 48 19			28	NUR	eP	22 18 46	0.9	8.5
		i	24.4				SOD	eP	22 17 58		
28	NUR	eP	20 50 43	0.7	9.0		KJN	eP	22 18 22	0.8	4.0
	SOD	eP	20 49 55			28	NUR	eP	22 20 01	0.9	11.8
28	SOD	eP	20 57 28				SOD	eP	22 19 12		
28	NUR	eP	21 05 12				KJN	eP	22 19 36	1.1	14.9
	SOD	eP	21 04 24				e	20 34			
	KJN	eP	21 04 48	0.9	6.4		KEV	eP	22 18 55	1.0	22.4
28	SOD	eP	21 11 37				H:	22 09 43.2			
	KJN	eP	21 12 01	1.0	6.5			58.0 N, 153.2 W, 33 km			
28	NUR	eP	21 14 19					Alaska aftershock			
		e	47	0.9	10.1	28	NUR	eP	22 23 45		
	SOD	eP	21 13 35				SOD	eP	22 22 56		
28	NUR	eP	21 25 34	1.0	16.2		KJN	eP	22 23 22		
	SOD	eP	21 24 46				H:	22 13 22.9			
	KJN	eP	21 25 10	1.0	10.9			57.5 N, 152.9 W, 25 km			
		H:	21 15 17.4					Alaska aftershock			
			58.2 N, 150.1 W, 25 km			28	KJN	eP	22 24 29		
			Alaska aftershock								

March				T	A	March				T	A	
28	NUR	eP	22 26 25	1.1	14.4	KJN	eP	23 24 41				
	SOD	iP	22 25 36.8 U				e	49				
	KJN	eP	22 26 01	0.8	7.1		H:	23 14 46.7				
		e	57					57.6 N, 151.2 W, 33 km				
	KEV	eP	22 25 18					Alaska aftershock				
		H:	22 16 20.8									
			59.8 N, 148.8 W, 33 km			28	NUR	eP	23 26 46	0.8	5.7	
			Alaska aftershock				SOD	iP	23 25 58.2			
28	NUR	eP	22 32 04				KJN	eP	23 26 22	0.7	7.6	
	SOD	iP	22 31 16.8				KEV	eP	23 25 39	0.8	11.8	
	KJN	eP	22 31 41	0.9	7.3	28	SOD	eP	23 30 08			
	KEV	eP	22 30 59				H:	23 21 05.7				
		e	31 15					61.5 N, 146.5 W, 33 km				
		H:	22 22 03.1					Alaska aftershock				
			60.3 N, 145.3 W, 15 km			28	NUR	iP	23 34 57.2	0.7	9.0	
			Alaska aftershock				SOD	eP	23 34 09			
28	NUR	eP	22 35 42	0.8	4.4		KJN	eP	23 34 32	0.8	6.3	
		H:	23 24 55.5					60.0 N, 149.6 W, 33 km				
28	NUR	iP	22 39 04.2 D	1.1	98.4			Alaska aftershock				
		i	11.2			28	SOD	eP	23 38 42			
	SOD	iP	22 38 16.6				KJN	eP	23 39 12			
		i	23.4			28	NUR	eP	23 40 40			
	KJN	iP	22 38 40.3 D	1.0	66.5		SOD	eP	23 39 52			
		i	47.2 D				KJN	eP	23 40 16	0.5	4.9	
		ePcP	39 32			28	NUR	eP	23 50 36			
	KEV	iP	22 37 57.5	1.1	58.3		KJN	eP	23 50 27			
		e	38 05			28	NUR	eP	23 52 09			
		H:	22 28 47.0				SOD	eP	23 51 20			
			58.0 N, 150.4 W, 20 km				KJN	eP	23 51 46	0.8	4.0	
			Alaska aftershock			28	NUR	eP	23 56 22.0	0.8	10.0	
28	NUR	iP	22 56 53.3	0.7	14.2		SOD	iP	23 55 35.0			
	SOD	iP	22 56 05.0 D				KJN	eP	23 55 58	0.9	5.5	
	KJN	iP	22 56 29.4	0.7	16.6	28	NUR	iP	23 56 42.0	0.9	75.2	
	KEV	eP	22 55 47	0.9	15.4			i	48.1			
		H:	22 47 00.1				SOD	iP	23 55 54.4			
			61.2 N, 145.2 W, 33 km					e	56 00			
			Alaska aftershock					i	05.7			
28	SOD	eP	23 07 05					ePcP	54			
	KJN	eP	23 07 42	1.2	13.4	28	NUR	iP	23 56 18.7 U	1.0	30.5	
		H:	23 08 23.7					i	24.2 U			
28	NUR	eP	23 09 10					ePcP	57 08			
	SOD	iP	23 08 23.7									
28	NUR	eP	23 25 06									
		e	13	0.9	10.0							
	SOD	eP	23 24 19									
		e	25									

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March				T	A	March				T	A
	KEV	eP	23 55 37	0.7	15.7	29	SOD	eP	00 45 36		
		e	42				KJN	eP	00 46 01		
		ePcP	56 45								
	H: 23 46 22.0					29	KJN	eP	00 53 18		
	57.5 N, 151.1 W, 33 km						H: 00 43 14				
	Alaska aftershock						58.7 N, 153.3 W, 25 km				
							Alaska aftershock				
29	KJN	eP	00 00 33			29	NUR	eP	00 58 51		
29	SOD	eP	00 03 20				SOD	eP	00 58 03		
	KJN	eP	00 03 45			29	NUR	eP	01 01 07		
29	NUR	eP	00 08 01				SOD	eP	01 00 19		
	SOD	eP	00 07 13				KJN	eP	01 00 42	0.9	6.4
	KJN	eP	00 07 36				H: 00 51 05.7				
29	SOD	eP	00 08 45				60.4 N, 145.1 W, 15 km				
							Alaska aftershock				
29	NUR	eP	00 21 04			29	NUR	iP	01 03 27.5	0.8	22.9
	SOD	eP	00 20 16				e	34			
	KJN	eP	00 20 41				SOD	iP	01 02 40.0 D		
29	NUR	eP	00 22 58	0.8	12.9		KJN	iP	01 03 03.8	0.8	15.0
	SOD	eP	00 22 11				e	23			
	KJN	eP	00 22 35	0.8	11.9		KEV	iP	01 02 22.0	0.7	11.6
	e	38					H: 00 53 05.8				
	KEV	eP	00 21 56	0.7	14.4		57.4 N, 151.5 W, 25 km				
	H: 00 12 32.3						Alaska aftershock				
	56.8 N, 153.4 W, 33 km					29	NUR	eP	01 06 03	0.8	5.7
	Alaska aftershock						SOD	eP	01 05 15		
29	NUR	eP	00 25 14	0.7	6.4		KJN	eP	01 05 38	1.0	6.5
	H: 00 15 11.0						e	53			
	59.9 N, 146.3 W, 33 km					29	NUR	eP	01 17 36	1.0	15.9
	Alaska aftershock						SOD	iP	01 16 48.2		
29	NUR	eP	00 25 45	0.8	8.6		KJN	iP	01 17 11.9	1.2	30.2
	SOD	iP	00 24 58.0				KEV	eP	01 16 30	0.7	11.6
	KJN	eP	00 25 21			29	NUR	iP	01 19 41.9	1.2	198.8
	e	47					SOD	iP	01 18 53.6 D		
	KEV	eP	00 24 39	0.7	5.2		eS.	26 23			
29	NUR	eP	00 31 18				KJN	iP	01 19 17.5 D	1.3	185.2
	SOD	eP	00 30 30				i	24.7 D			
	KJN	eP	00 30 51	0.8	6.3		iPcP	20 17.8			
	H: 00 21 03.8						KEV	iP	01 18 35.1 D	1.2	132.5
	58.4 N, 150.4 W, 33 km						H: 01 09 36.4				
	Alaska aftershock						59.8 N, 149.2 W, 20 km				
							Alaska aftershock				
29	NUR	eP	00 36 21			29	NUR	eP	01 32 51		
	SOD	eP	00 35 33				SOD	eP	01 32 01		
	KJN	eP	00 35 57				KJN	eP	01 32 24		

March						March					
				T	A					T	A
	KJN	eP	08 16 06	0.8	7.1	29	NUR	eP	09 10 12		
	KEV	iP	08 15 26.4	0.8	11.6		SOD	eP	09 09 23		
	H: 08 06 03.7						KEV	eP	09 09 11		
	56.6 N, 152.4 W, 25 km						H: 09 00 09.1				
	Alaska aftershock						60.3 N, 148.6 W, 20 km				
29	NUR	eP	08 18 21	0.7	15.4		Alaska aftershock				
	SOD	eP	08 17 34			29	NUR	iP	09 17 13.9	0.9	23.4
	KJN	eP	08 17 57	0.8	8.7		SOD	iP	09 16 27.0		
	KEV	eP	08 17 17	0.9	16.9		KJN	eP	09 16 50	0.9	16.5
	H: 08 07 52.3						KEV	iP	09 16 09.2	1.0	24.2
	56.5 N, 152.6 W, 20 km						H: 09 06 44.8				
	Alaska aftershock						56.6 N, 152.2 W, 15 km				
							Alaska aftershock				
29	SOD	eP	08 21 03			29	NUR	iP	09 26 12.2	1.2	59.6
	H: 08 11 54						SOD	iP	09 25 24.2 U		
	61.4 N, 146.4 W, 20 km						KJN	iP	09 25 47.9 U	1.1	45.9
	Alaska aftershock						e		53		
29	NUR	eP	08 24 59				KEV	iP	09 25 06.0 U	1.0	32.3
	SOD	eP	08 24 11				e		19		
							H: 09 15 55.4				
29	SOD	eP	08 37 53				58.4 N, 150.5 W, 15 km				
	KJN	eP	08 38 18				Alaska aftershock				
29	NUR	eP	08 41 34			29	SOD	eP	09 35 16		
	SOD	iP	08 40 45.4				KJN	eP	09 35 41	1.1	20.3
	KJN	eP	08 41 09	0.7	4.5						
	KEV	eP	08 40 32	1.1	24.0	29	NUR	eP	09 51 14	1.0	15.9
	H: 08 31 30.0						SOD	iP	09 50 25.2		
	60.2 N, 148.5 W, 15 km						KJN	eP	09 50 48	0.9	7.3
	Alaska aftershock						KEV	eP	09 50 07	0.9	13.5
29	NUR	eP	08 48 03	0.6	5.0	29	NUR	iP	09 55 11.5	0.7	15.4
	SOD	eP	08 47 16				SOD	iP	09 54 24.5		
29	KJN	eP	08 52 28				KJN	eP	09 54 47	1.1	10.8
							KEV	eP	09 54 07	0.9	11.8
29	NUR	eP	08 55 02	0.9	6.7	29	SOD	eP	10 01 12		
	SOD	eP	08 54 14								
	KJN	eP	08 54 38								
	H: 08 44 52.0										
	59.0 N, 148.1 W, 33 km										
	Alaska aftershock					29	NUR	eP	10 18 07	1.0	10.0
29	NUR	iP	09 00 29.5	1.3	27.1		SOD	iP	10 17 18.0		
	SOD	eP	08 59 42				iPcP		18 29.2		
	KEV	eP	08 59 26	0.9	11.9		KJN	eP	10 17 42		
	H: 08 50 03.6						i		44.3 U	1.0	93.7
	56.7 N, 152.1 W, 33 km						i		59.8 U		
	Alaska aftershock						e		18 39		
							iPcP		41.9 U		
							cont.				

March				T	A	March				T	A
	KEV	eP	10 17 01	1.0	94.9	29	NUR	iP	11 54 07.5	1.1	64.0
		i	02.0				SOD	iP	11 53 19.2 U		
		ePcP	18 20					i	25.7		
	H:		10 08 02.4					iPcP	54 28.1		
			60.0 N, 148.6 W, 20 km				KJN	iP	11 53 42.9 U	1.1	62.1
			Alaska aftershock					i	51.9		
29	NUR	eP	10 23 49	0.9	10.0			iPcP	54 40.5		
	SOD	eP	10 23 01				KEV	iP	11 53 01.1 U	0.8	50.8
	KJN	eP	10 23 24	0.9	12.8			iPcP	54 19.0		
	KEV	eP	10 22 42	1.2	25.9		H:		11 44 04.3		
	H:		10 13 48.0						60.0 N, 149.1 W, 25 km		
			60.6 N, 146.3 W, 15 km						Alaska aftershock		
			Alaska aftershock			29	NUR	eP	12 04 58		
29	NUR	eP	10 28 28	0.7	6.4		SOD	eP	12 04 05		
	SOD	eP	10 27 40					e	11		
	KEV	eP	10 27 22				KJN	eP	12 04 32		
29	NUR	eP	10 47 41					ePcP	05 25		
	KJN	eP	10 47 37				KEV	eP	12 03 48	1.5	47.7
29	NUR	eP	10 53 01				H:		11 54 41.0		
	SOD	eP	10 52 12						58.8 N, 151.1 W, 25 km		
		i	18.7						Alaska aftershock		
	H:		10 42 42.8			29	NUR	eP	12 06 52	0.9	16.7
			57.9 N, 151.7 W, 33 km					e	58		
			Alaska aftershock				SOD	iP	12 06 04.3		
29	NUR	iP	10 59 57.0	1.0	35.8			i	11.1		
	SOD	iP	10 59 09.1 U				KJN	iP	12 06 27.7	0.9	14.4
	KEV	iP	10 58 51.0 U	0.9	27.0			i	34.4	1.1	47.5
	H:		10 49 40.3				KEV	eP	12 05 46	1.0	44.9
			58.2 N, 150.4 W, 25 km					i	53.7		
			Alaska aftershock				H:		11 56 33.0		
									58.0 N, 151.6 W, 20 km		
									Alaska aftershock		
29	NUR	eP	11 22 14	0.7	7.7	29	NUR	eP	12 13 01	0.6	3.7
	SOD	eP	11 21 27				SOD	eP	12 12 10		
	KJN	eP	11 21 51	0.8	6.3		KJN	eP	12 12 36		
	H:		11 11 44.8				H:		12 03 03.8		
			56.2 N, 152.7 W, 33 km						60.9 N, 143.2 W, 20 km		
			Alaska aftershock						Alaska aftershock		
29	NUR	eP	11 41 57			29	NUR	eP	12 15 15	0.8	7.2
	SOD	iP	11 41 08.2				SOD	eP	12 14 25		
	KJN	eP	11 41 32	0.7	4.5		KJN	eP	12 14 49	0.8	4.6
	KEV	eP	11 40 48			29	NUR	iP	12 22 33.0	0.8	7.2
	H:		11 31 56.8				SOD	iP	12 21 45.8		
			60.6 N, 148.7 W, 20 km					e	51		
			Alaska aftershock				KJN	iP	12 22 08.5	0.7	6.7
								e	15		

cont.

March						March					
				T	A				T	A	
29	NUR	iP	16 19 17.2	0.7	10.2						
	SOD	iP	16 18 29.7					ePcP	51 37		
	KJN	iP	16 18 53.7	1.1	19.8			eS	58 33		
		e	19 23					eP'P'	17 20 45		
	KEV	eP	16 18 11	1.1	21.9			KEV iP	16 49 58.3	1.2 102.2	
	H:		16 09 15.3					ePcP	51 15		
			60.3 N, 146.6 W, 15 km					eS	57 14		
			Alaska aftershock					eScS	59 48		
								eLQ	17 01.5		
								eLR	17 04.6		
29	NUR	eP	16 26 34	0.6	6.2			H:	16 40 57.9		
		e	41						59.7 N, 147.0 W, 15 km		
	SOD	eP	16 25 46						Alaska aftershock		
		i	54.0								
	KJN	eP	16 26 10	0.7	4.4	29	NUR	iP	16 55 37.0	0.9 30.1	
		i	17.3	1.3	48.3		SOD	eP	16 54 50		
	KEV	e	16 25 36	1.2	17.5		KJN	iP	16 55 14.2	1.0 53.5	
	H:		16 16 22.4					i	18.1 U		
			58.8 N, 150.5 W, 25 km					KEV iP	16 54 32.6 D	1.1 48.6	
			Alaska aftershock					H:	16 45 33.6		
									59.8 N, 146.9 W, 20 km		
									Alaska aftershock		
29	NUR	iP	16 28 30.9	1.0	17.9						
		e	36								
	SOD	iP	16 27 42.8								
		i	47.3								
	KJN	eP	16 28 06	1.0	48.3	29	NUR	iP	17 03 27.9	1.1 54.5	
		e	11					e	33		
	KEV	iP	16 27 24.0 U	0.8	42.6		SOD	iP	17 02 40.0 U		
		i	29.3					i	45.0		
	H:		16 18 29.3					KJN	iP	17 03 04.2 U	1.0 64.2
			60.4 N, 146.0 W, 15 km						i	09.3 D	
			Alaska aftershock						iPcP	04 03.0 D	
									KEV iP	17 02 21.8 U	0.8 82.3
									i	27.2	
									H:	16 53 26.6	
										60.3 N, 146.1 W, 15 km	
										Alaska aftershock	
29	NUR	eP	16 42 30								
	SOD	eP	16 41 42								
	KJN	eP	16 42 05	1.0	17.4	29	NUR	eP	17 25 10		
29	NUR	eP	16 43 50								
	SOD	eP	16 43 03								
	KJN	eP	16 43 26	0.6	6.0	29	NUR	eP	17 36 28	0.5 3.9	
	H:		16 33 20					SOD	eP	17 35 41	
			56.0 N, 149.9 W, 33 km					H:		17 26 00.2	
			Alaska aftershock							56.4 N, 153.3 W, 33 km	
										Alaska aftershock	
29	NUR	iP	16 51 04.0	1.2	88.0	29	SOD	eP	17 45 17		
		eS	59 18					KJN	eP	17 45 40	
		eScS	17 00 41					e	46 25		
		eLR	17 08.0								
	SOD	iP	16 50 15.8			29	NUR	eP	17 48 18	0.8 5.7	
		eS	57 51					SOD	iP	17 47 30.3	
	KJN	eP	16 50 40	1.2	115.5			KJN	eP	17 47 54	
		i	48.4					H:		17 38 12.5	
			cont.							59.9 N, 147.0 W, 15 km	
										Alaska aftershock	

March					March						
			T	A				T	A		
29	NUR	eP	21 13 11	1.0	10.0	29	NUR	eP	23 09 19	0.7	5.1
	SOD	eP	21 12 23				SOD	eP	23 10 19		
	KJN	eP	21 12 47	1.1	9.5	29	NUR	eP	23 14 15		
	H: 21 03 11.5					29	SOD	eP	23 15 57		
	60.6 N, 144.8 W, 20 km										
	Alaska aftershock										
29	NUR	iP	21 49 16.0	0.8	8.6	29	NUR	eP	23 19 02	0.8	18.6
	SOD	eP	21 48 28				SOD	iP	23 18 15.0		
	KJN	eP	21 48 52	0.8	7.1		KJN	iP	23 18 38.2	0.9	12.8
		e	58				KEV	eP	23 17 56	0.8	7.4
	H: 21 40 32.7						H: 23 08 28.6				
	6.7 S, 155.1 E, 68 km						56.1 N, 153.5 W, 15 km				
	Solomon Islands						Alaska aftershock				
29	NUR	iPKP	21 59 06.8	1.0	21.9	29	SOD	eP	23 35 06		
	KJN	iPKP	21 59 01.0	1.2	23.5		H: 23 25 35.1				
		e	17				59.2 N, 152.6 W, 33 km				
	H: 21 40 32.7						Alaska aftershock				
	6.7 S, 155.1 E, 68 km										
	Solomon Islands										
29	NUR	eP	22 09 43	0.8	14.3	29	NUR	eP	23 38 00	1.0	25.9
	SOD	eP	22 09 59				SOD	iP	23 37 11.6 U		
	KJN	iP	22 09 59.0	1.1	14.9		KJN	iP	23 37 35.4	0.9	19.3
		i	10 03.7 D					i	46.3		
29	KJN	eP	22 21 35					iPoP	38 32.2		
29	SOD	eP	22 27 15				KEV	iP	23 36 53.1	0.9	17.1
29	SOD	eP	22 36 30				H: 23 27 55.3				
	KJN	eP	22 36 53				59.7 N, 148.2 W, 30 km				
	Alaska aftershock						Alaska aftershock				
29	NUR	eP	22 45 39			29	KJN	eP	23 40 07		
	SOD	iP	22 44 52.4			29	NUR	eP	23 50 52	0.9	16.7
		e	58				SOD	eP	23 50 02		
	KJN	iP	22 45 16.6	0.6	6.1		KJN	eP	23 50 26	1.0	8.7
		i	22.4				H: 23 40 54.8				
	KEV	eP	22 44 34	1.0	10.2		61.1 N, 151.0 W, 25 km				
	H: 22 35 38.5						Alaska aftershock				
	60.3 N, 146.5 W, 15 km										
	Alaska aftershock					29	NUR	eP	23 59 33	0.8	7.2
29	NUR	eP	22 57 20				SOD	iP	23 58 45.4 D		
	SOD	eP	22 56 33				KJN	eP	23 59 08	0.7	9.8
	KJN	eP	22 56 57					i	09.4		
	H: 22 47 19.0						KEV	iP	23 58 27.0	0.8	7.4
	60.3 N, 145.4 W, 15 km						H: 23 49 28.6				
	Alaska aftershock						59.9 N, 147.1 W, 20 km				
	Alaska aftershock						Alaska aftershock				
29	SOD	eP	23 09 02			30	NUR	iP	00 06 05.0	0.9	10.0
	KJN	eP	23 09 28				SOD	iP	00 05 17.1		
		i	10 10.2				cont.				

March						March					
				T	A					T	A
	KJN	iP	00 05 40.8	0.9	8.3	30	NUR	eP	02 13 01	0.6	8.7
		i	46.9				SOD	eP	02 12 13		
	KEV	eP	00 05 00				KJN	eP	02 12 36	0.9	7.3
	H:	23 55	51.9				KEV	eP	02 11 56	0.9	12.0
	58.9 N, 150.0 W, 20 km										
	Alaska aftershock					30	NUR	eP	02 13 13		
30	NUR	eP	00 19 41	0.5	3.9		SOD	iP	02 12 25.7 U		
	SOD	eP	00 18 53				i		31.1		
	KJN	eP	00 19 18				KJN	iP	02 12 49.3 U	1.1	35.1
	KEV	iP	00 18 41.7	0.9	12.0		ePcP		13 50		
	H:	00 28	07.2	0.8	8.6	30	NUR	iP	02 28 33.0	1.0	288.6
	SOD	iP	00 27 19.5 U				ePP		30 58		
	e		25				eS		37 06		
	KJN	eP	00 27 43	0.7	6.8		eP'P'		57 41		
	e		49				SOD	iP	02 27 46.5 U		
	KEV	eP	00 27 01				iPP		29 37.0 U		
	H:	00 17	57.7				eS		35 36		
	59.3 N, 149.0 W, 20 km						e		37 27		
	Alaska aftershock						eScS		41		
30	NUR	iP	00 36 28.5	0.7	6.4		eP'P'		57 46		
	SOD	eP	00 35 40				KJN	iP	02 28 09.6 U	1.0	184.2
	KJN	eP	00 36 04	0.8	6.3		i		29 14.9 U		
	H:	00 26	15.7				eS		36 20		
	58.9 N, 150.2 W, 20 km						e		32		
	Alaska aftershock						e		45		
30	NUR	eP	01 04 01				eScS		38 02		
	SOD	eP	01 03 13				eP'P'		57 49		
	KJN	eP	01 03 37	1.0	6.5		KEV	iP	02 27 28.8 U	0.9	133.4
	KEV	eP	01 02 54	0.8	7.4		ePP		29 34		
	H:	00 53	55.8				ePPP		31 43		
	60.0 N, 146.3 W, 15 km						eS		35 04		
	Alaska aftershock						e		36 56		
							eScS		37 26		
							H:	02 18	06.3		
							56.6 N, 152.9 W, 25 km				
							Alaska aftershock				
30	NUR	eP	01 42 15	0.9	11.7		SOD	eP	02 45 57		
	SOD	eP	01 41 27			30	KJN	eP	02 46 21	0.8	7.1
	KJN	eP	01 41 51	1.0	13.1						
	KEV	eP	01 41 09	1.0	8.2						
	H:	01 32	09.5								
	59.8 N, 146.6 W, 15 km					30	NUR	iP	02 52 26.5	0.8	40.0
	Alaska aftershock						SOD	iP	02 51 39.7 U		
							i		46.8		
30	NUR	eP	01 51 33	0.8	7.2		KJN	iP	02 52 02.5	0.8	20.5
	SOD	eP	01 50 46				i		09.0		
	KJN	eP	01 51 10	1.2	20.2		e		14		
	KEV	eP	01 50 30	1.1	24.3		KEV	iP	02 51 22.0	0.8	23.5
	H:	01 41	38.6				H:	02 41	59.6		
	60.6 N, 144.3 W, 33 km						56.5 N, 153.0 W, 30 km				
	Alaska aftershock						Alaska aftershock				

March				T	A	March				T	A
30	NUR	eP	02 56 42	1.2	17.0	30	NUR	eP	04 50 19	0.8	5.7
	SOD	eP	02 55 54				SOD	eP	04 49 26		
	KJN	eP	02 56 17	1.0	7.6		KJN	eP	04 49 49		
	KEV	eP	02 55 35								
30	NUR	eP	03 00 28			30	NUR	eP	05 04 23	0.8	5.7
							SOD	iP	05 03 34.8		
30	SOD	eP	03 19 05			30	NUR	iP	05 24 50.2	0.7	7.7
	KJN	eP	03 19 29	1.0	7.6		SOD	eP	05 24 04		
								i	09.6		
30	NUR	eP	03 22 48	0.8	4.3		KJN	eP	05 24 27		
	SOD	eP	03 22 00				KEV	eP	05 23 46	0.8	8.9
	KJN	eP	03 22 24	0.9	6.4			e	52		
	H: 03 12 17.1						H: 05 14 21.5				
	56.0 N, 153.6 W, 33 km						56.2 N, 154.4 W, 33 km				
	Alaska aftershock						Alaska aftershock				
30	NUR	eP	03 32 37			30	NUR	eP	06 05 10	0.6	7.4
	SOD	eP	03 33 39				SOD	iP	06 04 22.3		
	KJN	eP	03 33 10				KJN	eP	06 04 43		
		e	22					i	45.8		
	BCIS:										
	H: 03 27 20					30	NUR	eP	07 19 38	1.1	137.5
	35.3 N, 23.9 E, 100 km							e	42		
	Crete							e	20 46		
30	SOD	eP	03 43 40					eS	27 47		
	KJN	eP	03 44 05	0.9	5.5			eSS	31 58		
								eP'P'	49 14		
30	SOD	eP	03 44 24					eLR	07 37.4		
	H: 03 35 12						SOD	eP	07 18 49		
	61.2 N, 151.1 W, 30 km							i	53.7 D		
	Alaska aftershock							eS	26 22		
30	SOD	eP	04 03 47					eScS	28 47		
							KJN	eP	07 19 13		
30	NUR	eP	04 11 58					i	17.8 D		
	KJN	eP	04 11 28	1.1	8.1			e	20 12		
	H: 04 01 36							eP'P'	49 17		
	56.4 N, 152.8 W, 33 km						KEV	iP	17 18 32.1	1.1	174.7
	Alaska aftershock							ePcP	19 53		
								ePP	20 34		
30	NUR	eP	04 32 51	0.8	7.2			ePPP	21 30		
	SOD	eP	04 32 03					eS	25 48		
	KJN	eP	04 32 27				H: 07 09 34.0				
	H: 04 22 43.1						59.9 N, 145.7 W, 15 km				
	59.5 N, 146.3 W, 15 km						Alaska aftershock				
	Alaska aftershock					30	NUR	eP	07 27 16	0.8	7.2
							SOD	eP	07 26 22		
30	SOD	eP	04 41 51			30	NUR	eP	07 35 38		
	KJN	eP	04 42 15	1.0	5.5		SOD	eP	07 34 50		
							KJN	eP	07 35 14		

March						March			
				T	A				
30	SOD eP	07 46 07				30	SOD eP	10 16 14	
	KJN eP	07 46 31					KJN eP	10 16 47	
	H: 07 37 01								
	59.7 N, 145.3 W, 33 km					30	NUR eP	10 17 17	
	Alaska aftershock								
30	NUR eP	08 06 59		0.7	24.3	30	SOD eP	10 25 04	
	SOD iP	08 06 12.3 D					KJN eP	10 25 28	1.0 9.8
	i	18.4					KEV eP	10 24 46	1.0 12.4
	KJN eP	08 06 35		1.0	16.4		H: 10 15 51.7		
	e	58					60.4 N, 146.6 W, 15 km		
	KEV iP	08 05 54.0		1.1	27.1		Alaska aftershock		
	H: 07 56 29.1					30	NUR iP	10 41 22.0 U	0.7 19.5
	56.3 N, 154.4 W, 20 km						SOD iP	10 40 33.6 U	
	Alaska aftershock						KJN iP	10 40 56.8	0.7 14.0
30	SOD eP	08 15 52					KEV iP	10 40 14.9	0.8 10.4
	KJN eP	08 16 14					H: 10 31 22.0		
							60.5 N, 149.6 W, 30 km		
							Alaska aftershock		
30	NUR eP	08 45 03				30	NUR eP	10 46 28	
	SOD iP	08 44 15.5 U							
	H: 08 34 37.3					30	NUR eP	10 56 57	
	57.0 N, 152.6 W, 20 km						SOD eP	10 56 07	
	Alaska aftershock						H: 10 47 06		
30	NUR eP	08 50 39					61.5 N, 146.8 W, 35 km		
	SOD eP	08 49 44					Alaska aftershock		
	H: 08 40 10.7					30	NUR eP	11 09 41	1.5 28.4
	56.6 N, 153.0 W, 20 km						SOD eP	11 08 53	
	Alaska aftershock						KJN eP	11 09 16	1.5 19.2
30	NUR eP	09 03 47		0.9	6.7		KEV e	11 08 48	
	SOD eP	09 03 01					H: 10 59 27.6		
	H: 08 53 17.9						58.4 N, 149.2 W, 25 km		
	56.3 N, 153.1 W, 33 km						Alaska aftershock		
	Alaska aftershock					30	NUR iP	11 15 49.5 U	0.7 9.1
30	NUR eP	09 10 43					SOD iP	11 15 01.1 U	
							KJN iP	11 15 25.3 U	0.7 11.3
30	NUR eP	09 33 07		1.2	14.2		i	39.1	
	SOD eP	09 32 19					KEV iP	11 14 42.8 U	0.8 17.9
	KJN eP	09 32 42					H: 11 05 47.4		
	KEV eP	09 32 01					60.4 N, 146.8 W, 15 km		
	H: 09 23 05.0						Alaska aftershock		
	59.9 N, 145.6 W, 33 km					30	NUR eP	11 45 12	0.8 13.1
	Alaska aftershock						SOD iP	11 44 23.5	
30	NUR iP	10 07 30.2		1.0	15.9		KJN iP	11 44 46.2	1.0 15.3
	SOD iP	10 06 42.2					KEV eP	11 44 04	
	KJN eP	10 07 05		0.9	12.8		H: 11 35 18.8		
	KEV eP	10 06 24		0.9	10.4		61.5 N, 147.9 W, 25 km		
	H: 09 57 32.5						Alaska aftershock		
	60.9 N, 145.1 W, 15 km								
	Alaska aftershock								

March				T	A	March				T	A
30	NUR	eP	11 59 09	0.7	52.0	30	NUR	eP	13 05 17	1.2	14.3
		eS	12 07 41				SOD	eP	13 04 29		
		eScS	08 52					e	43		
		eSS	11 38				KJN	iP	13 04 51.9	1.2	13.4
	SOD	iP	11 58 22.5				KEV	eP	13 04 11	1.2	17.5
		i	36.6				H: 12 55 12.5				
	KJN	iP	11 58 46.4	0.8	22.1		59.7 N, 147.0 W, 30 km				
		e	59 04				Alaska aftershock				
		ePcP	34			30	NUR	eP	13 09 06	0.8	5.8
	KEV	iP	11 58 05.4	0.7	21.1		SOD	eP	13 08 15		
		eS	12 05 40				KJN	eP	13 08 38	1.0	5.5
		eScS	07 50				KEV	eP	13 08 00		
	H: 11 48 40.4										
	56.4 N, 152.5 W, 20 km										
	Alaska aftershock					30	NUR	iP	13 14 04.0	0.7	33.5
30	NUR	eP	12 15 46					eS	22 37		
		i	49.1	0.9	33.6			eScS	23 56		
	SOD	eP	12 14 58					eSS	26 34		
		i	15 08.0 D					eLQ	13 30.6		
		i	19.1				SOD	iP	13 13 16.7		
	KJN	eP	12 15 21	0.8	11.1			eS	21 09		
		i	24.4 U	1.0	54.5		KJN	iP	13 13 39.7	0.9	26.6
		i	42.7	1.0	47.6			i	46.0		
	KEV	eP	12 14 39	1.3	35.2			i	56.9		
		i	42.7	1.0	47.6			eS	21 53		
	H: 12 05 43.5						KEV	iP	13 12 59.1	0.8	14.7
	60.1 N, 147.0 W, 25 km							ePcP	14 06		
	Alaska aftershock							eS	20 36		
								eScS	22 46		
30	NUR	eP	12 24 47	0.7	24.5		H: 13 03 34.9				
		e	54				56.5 N, 152.7 W, 20 km				
	SOD	iP	12 23 58.5 D				Alaska aftershock				
		i	24 06.7								
	KJN	iP	12 24 21.8 D	0.7	19.6						
		i	28.9			30	NUR	iP	13 42 47.6	0.7	47.7
	KEV	iP	12 23 40.7	0.9	18.8		SOD	eP	13 42 00		
		e	48					i	03.1		
	H: 12 14 28.4						KJN	eP	13 42 23	0.8	23.7
	58.0 N, 151.6 W, 25 km							i	25.7 D		
	Alaska aftershock							eS	50 36		
30	NUR	eP	12 32 47				KEV	iP	13 41 44.9	0.7	20.1
	SOD	eP	12 32 00				H: 13 32 18.5				
	H: 12 22 24						56.4 N, 152.6 W, 15 km				
	57.3 N, 150.2 W, 20 km						Alaska aftershock				
	Alaska aftershock					30	NUR	iP	14 21 10.0	0.8	28.8
30	NUR	eP	12 48 20					i	16.2		
	SOD	eP	12 47 32				SOD	iP	14 20 22.3 U		
	KJN	eP	12 47 55					i	28.0		
	KEV	eP	12 47 15				KJN	iP	14 20 45.5	1.0	43.6
	H: 12 38 16.0							i	51.3		
	59.7 N, 146.9 W, 30 km							e	21 00		
	Alaska aftershock						cont.				

March

March

		T	A			T	A
	KEV iP 14 20 04.1 U	0.9	32.5		KJN iP 16 19 31.7 U	1.2	176.4
	i 11.0				i 38.3 D		
	H: 14 10 48.6				eS 27 43		
	57.4 N, 152.3 W, 30 km				eScS 29 20		
	Alaska aftershock				KEV iP 16 18 50.8 U	0.8	67.6
30	NUR eP 14 35 15	1.2	14.3		e 57		
	SOD eP 14 34 27				ePP 20 54		
	KJN eP 14 34 49				ePPP 22 05		
	KEV eP 14 34 09				eS 26 26		
	H: 14 25 16.0				ePS 40		
	60.4 N, 147.3 W, 33 km				eScS 28 38		
	Alaska aftershock				H: 16 09 28.4		
30	NUR eP 15 18 02	0.9	85.7		56.6 N, 152.1 W, 25 km		
	i 08.0				Alaska aftershock		
	eP'P' 47 22			30	NUR eP 16 48 31	1.2	28.5
	SOD iP 15 17 13.1 D				SOD iP 16 47 43.0 D		
	i 19.5				KJN eP 16 48 07		
	iPcP 18 18.1				KEV iP 16 47 24.4	0.8	10.3
	i 24.2				H: 16 38 26.5		
	KJN iP 15 17 37.0 D	1.1	95.9		60.1 N, 150.7 W, 15 km		
	i 44.1 D				Alaska aftershock		
	iPcP 18 30.8						
	i 37.2			30	NUR iP 17 03 37.0 D	1.2	114.0
	eP'P' 47 20				SOD iP 17 02 49.0		
	KEV iP 15 16 55.3	1.0	32.6		i 55.1		
	i 17 02.0				KJN iP 17 03 13.1 D	1.0	54.5
	ePcP 18 08				i 18.0		
	e 15				KEV iP 17 02 32.1 D	0.8	30.9
	H: 15 07 49.3				e 37		
	58.7 N, 149.6 W, 25 km				H: 16 53 07.7		
	Alaska aftershock				56.6 N, 152.2 W, 15 km		
30	NUR eP 15 29 09				Alaska aftershock		
	SOD eP 15 28 13			30	NUR eP 17 14 46		
	KJN eP 15 28 36				SOD eP 17 14 01		
30	NUR eP 16 14 37	0.8	7.2		KJN eP 17 14 24	1.0	4.4
	SOD iP 16 13 49.8				KEV eP 17 13 46		
	KJN eP 16 14 12				H: 17 04 21		
	KEV eP 16 13 32				56.7 N, 152.5 W, 33 km		
30	NUR iP 16 19 55.9 U	1.5	373.6		Alaska aftershock		
	e 21 52						
	ePP 22 18			30	NUR eP 17 21 56		
	iS 28 28						
	eScS 29 48			30	SOD eP 17 25 23		
	eSS 32 14				KJN eP 17 25 47	1.0	5.5
	SOD iP 16 19 08.6 U				H: 17 16 06.7		
	i 15.2				59.6 N, 146.5 W, 33 km		
	ePcP 20 12				Alaska aftershock		
	eS 27 00						
	cont.						

March

				T	A
30	NUR	iP	17 32 05.0	0.8	11.5
	SOD	iP	17 31 17.0		
	KJN	iP	17 31 40.2 U	0.7	14.3
	KEV	eP	17 30 59	1.0	14.3
	H: 17 22 06.2				
	60.7 N, 145.5 W, 15 km				
	Alaska aftershock				
30	NUR	eP	17 51 06		
	SOD	eP	17 50 16		
	KJN	eP	17 50 40		
	KEV	eP	17 49 58		
	H: 17 41 13.4				
	61.5 N, 150.0 W, 40 km				
	Alaska aftershock				
30	KJN	eP	18 37 52		
30	NUR	ePKP	19 01 25		
	KJN	ePKP	19 01 26		
	H: 18 42 03.4				
	24.2 S, 176.4 W, 33 km				
	Tonga Islands				
30	NUR	eP	19 28 20	1.1	14.3
	SOD	eP	19 27 34		
	KJN	eP	19 27 56	1.4	22.2
	H: 19 18 20				
	60.5 N, 143.8 W, 15 km				
	Alaska aftershock				
30	SOD	eP	19 29 16		
30	NUR	eP	19 32 23	0.9	8.4
	H: 19 21 49				
	55.1 N, 168.6 W, 30 km				
	Fox Islands				
30	NUR	eP	19 53 39		
	SOD	eP	19 52 51		
	KJN	eP	19 53 13		
30	NUR	eP	19 55 16		
	SOD	eP	19 54 29		
	KJN	eP	19 54 52		
30	NUR	eP	20 05 36	0.9	10.1
	SOD	iP	20 04 48.5		
	KJN	eP	20 05 11		
	H: 19 55 18.2				
	57.9 N, 151.1 W, 30 km				
	Alaska aftershock				

March

				T	A
30	NUR	eP	20 42 54	1.1	23.8
	SOD	iP	20 42 06.9		
	KJN	eP	20 42 30	1.0	15.3
		e	41		
	KEV	eP	20 41 49	1.0	12.2
	H: 20 32 46.8				
	59.4 N, 145.1 W, 15 km				
	Alaska aftershock				
30	NUR	eP	21 42 17	1.0	8.0
	SOD	eP	21 41 28		
		e	34		
	KJN	eP	21 41 52	1.0	7.6
		e	58		
	KEV	eP	21 41 11		
	H: 21 32 14.9				
	59.9 N, 147.6 W, 33 km				
	Alaska aftershock				
30	NUR	eP	22 15 06		
	SOD	eP	22 14 18		
	KJN	eP	22 14 42		
	KEV	eP	22 14 01		
	H: 22 05 03.9				
	60.2 N, 145.5 W, 15 km				
	Alaska aftershock				
30	KJN	eP	22 27 37		
30	NUR	iP	22 31 27.0	0.8	11.5
	SOD	iP	22 30 39.0 U		
	KJN	iP	22 31 02.3 U	0.8	19.0
	KEV	iP	22 30 20.5 U	0.5	20.1
	H: 22 21 25.2				
	60.3 N, 146.9 W, 15 km				
	Alaska aftershock				
30	NUR	eP	22 47 28	1.0	12.0
	SOD	iP	22 46 40.8		
	KJN	eP	22 47 03	1.1	12.2
	KEV	eP	22 46 23	0.8	11.8
	H: 22 37 14.4				
	58.4 N, 149.8 W, 33 km				
	Alaska aftershock				
30	NUR	eP	23 00 17		
	SOD	eP	22 59 28		
	KJN	eP	22 59 52		

March						March					
				T	A					T	A
30	NUR	iP	23 13 57.9	0.8	13.0	KJN	iP	00 24 28.0 U	1.1	28.4	
	SOD	iP	23 13 10.5				iPcP	25 10.8			
		e	16				e	52			
	KJN	iP	23 13 33.4	0.9	12.8	KEV	eP	00 24 00			
		e	38				i	43.5	1.2	64.2	
	KEV	iP	23 12 52.2	0.9	20.5		e	31 50			
		e	58				eLQ	00 38.2			
	H: 23 03 34.5						H: 00 14 11.7				
	57.3 N, 152.7 W, 20 km						45.3 N, 151.0 E, 60 km				
	Alaska aftershock						Kurile Islands				
30	NUR	eP	23 22 05			31	NUR	eP	00 49 33		
	SOD	eP	23 21 12				SOD	eP	00 48 46		
	KJN	eP	23 21 38				KJN	eP	00 49 11		
30	NUR	eP	23 34 49			31	NUR	eP	00 53 30		
30	NUR	eP	23 44 02	0.7	3.9	31	NUR	eP	00 55 02	1.0	14.0
	SOD	eP	23 43 14				SOD	iP	00 54 13.9		
	KJN	eP	23 43 37				KJN	eP	00 54 37		
	KEV	eP	23 42 57				KEV	eP	00 53 56		
	H: 23 33 31.6						H: 00 44 53				
	56.1 N, 153.0 W, 33 km						59.5 N, 146.3 W, 15 km				
	Alaska aftershock						Alaska aftershock				
30	KJN	eP	23 52 20			31	NUR	eP	01 07 37	0.7	7.7
31	NUR	iP	00 01 50.2 U	0.9	33.6		SOD	eP	01 06 59		
	SOD	iP	00 01 02.2 U				KJN	eP	01 07 13		
	KJN	iP	00 01 25.8 U	0.9	26.6		e	53			
		e	32			31	SOD	eP	01 24 30		
		ePcP	02 23								
	KEV	eP	00 01 44	1.0	26.5	31	SOD	eP	01 26 36		
	H: 23 51 46.0						KJN	eP	01 27 00	0.6	3.8
	59.6 N, 147.4 W, 33 km						e	06			
	Alaska aftershock						KEV	eP	01 26 23		
							H: 01 17 11.3				
31	NUR	eP	00 21 53	1.2	11.4		58.8 N, 148.9 W, 20 km				
	SOD	eP	00 21 07				Alaska aftershock				
	KJN	eP	00 21 30	0.9	3.7	31	SOD	eP	01 50 07		
31	NUR	eP	00 24 51	0.8	23.0		KJN	eP	01 50 32	1.1	6.8
		eS	33 35				e	36			
		e	34 15				KEV	eP	01 49 49	1.3	17.4
		eSS	38 04				H: 01 40 54.5				
		eSSS	40 36				60.3 N, 145.3 W, 15 km				
		eLQ	00 42.0				Alaska aftershock				
		eLR	00 44.5			31	NUR	eP	01 53 05		
	SOD	eP	00 24 13				SOD	eP	01 52 17		
		e	53				KJN	eP	01 52 39		

cont.

March

March

				T	A					T	A	
31	NUR	eP	02 08 16	1.0	10.0	KEV	iP	04 55 20.0	0.9	12.0		
	SOD	iP	02 07 28.2			H:	04 46 06.1					
	KJN	eP	02 07 52	0.9	4.6		57.6 N, 151.2 W, 33 km					
			H: 01 57 54.3				Alaska aftershock					
			57.6 N, 150.1 W, 20 km									
			Alaska aftershock									
31	SOD	eP	02 20 08			31	SOD	eP	04 58 45			
	KJN	eP	02 20 32				KJN	eP	04 59 15			
31	SOD	eP	02 29 47			31	SOD	eP	05 07 56			
31	NUR	iP	02 54 03.2	0.9	18.5	31	SOD	eP	05 30 56			
	SOD	iP	02 53 15.6 U				KJN	eP	05 31 19			
	KJN	eP	02 53 39	1.1	18.9	31	NUR	eP	05 52 52	0.5	6.6	
	KEV	iP	02 52 58.0	0.9	15.3		SOD	eP	05 52 04			
			H: 02 43 35.6				KJN	eP	05 52 28	1.0	6.7	
			56.7 N, 154.0 W, 20 km						H: 05 42 22.4			
			Alaska aftershock						56.2 N, 153.4 W, 33 km			
									Alaska aftershock			
31	NUR	iP	02 55 35.0	0.9	13.4	31	NUR	eP	06 39 04	1.0	8.0	
	SOD	iP	02 54 46.7				KJN	eP	06 38 24			
	KJN	eP	02 55 11						H: 06 28 59.1			
	KEV	iP	02 54 28.8	1.0	18.4				59.6 N, 146.4 W, 33 km			
			H: 02 45 26.9						Alaska aftershock			
			59.7 N, 149.8 W, 10 km									
			Alaska aftershock									
31	NUR	eP	04 14 59	0.8	7.2	31	NUR	iP	07 19 11.2	1.2	20.0	
	SOD	eP	04 14 11				e		19	1.0	12.0	
	KJN	eP	04 14 35	1.1	8.3		e		28			
			H: 04 04 48.5				SOD	iP	07 18 23.0			
			59.1 N, 148.4 W, 20 km				KJN	iP	07 18 46.8	1.3	26.1	
			Alaska aftershock				KEV	eP	07 18 06	1.0	10.2	
31	NUR	eP	04 22 38	1.0	8.0				H: 07 08 54.5			
	KJN	eP	04 22 13						58.3 N, 149.3 W, 20 km			
									Alaska aftershock			
31	NUR	eP	04 30 20	0.9	21.8	31	NUR	eP	07 25 14			
	SOD	iP	04 29 31.5				SOD	eP	07 24 26			
	KJN	iP	04 29 55.8	0.9	28.4		KJN	eP	07 24 50			
		e	30 54						H: 07 15 10.6			
	KEV	iP	04 29 13.8	0.8	36.8				59.8 N, 148.0 W, 33 km			
			H: 04 20 16.3						Alaska aftershock			
			60.3 N, 146.3 W, 5 km									
			Alaska aftershock									
31	NUR	eP	04 56 26			31	NUR	eP	08 15 53	0.6	3.8	
	SOD	iP	04 55 38.0				SOD	eP	08 15 03			
	KJN	iP	04 56 01.5	1.1	30.4				H: 08 05 50.0			
		e	25						60.2 N, 147.6 W, 35 km			
			cont.						Alaska aftershock			

March					March					
			T	A			T	A		
31	NUR	iP	12 03 42.2	1.0	62.9	KJN	eP	16 42 02		
		eS	12 14				i	05.2	0.8 11.9	
	SOD	iP	12 02 55.5			KEV	eP	16 41 23	0.9 13.7	
	KJN	iP	12 03 18.0	1.0	39.2	H: 16 32 07.2				
	KEV	iP	12 02 37.2	0.9	25.7	57.3 N, 152.0 W, 33 km				
	H: 11 53 14.4					Alaska aftershock				
	56.5 N, 152.3 W, 25 km									
	Alaska aftershock					31	NUR	iP	16 53 50.5	0.8 8.8
31	NUR	iP	12 04 12.1	0.8	43.8		e	56		
		eS	12 44			SOD	eP	16 53 02		
	SOD	iP	12 03 25.2				i	07.9		
	KJN	iP	12 03 49.3	0.9	23.8	KJN	eP	16 53 25	1.0 14.2	
	KEV	eP	12 03 07				i	31.7		
	H: 12 53 43.6					KEV	iP	16 52 49.6	0.9 13.7	
	56.7 N, 152.2 W, 33 km					H: 16 43 45.5				
	Alaska aftershock					59.7 N, 148.7 W, 33 km				
	Alaska aftershock					Alaska aftershock				
31	NUR	eP	12 12 57	0.9	8.5	31	NUR	iSKP	17 25 34.5	
31	NUR	iP	12 40 50.8	0.9	17.0		KJN	iSKP	17 25 22.2	
	SOD	eP	12 40 03			H: 17 04 39.0				
	KJN	iP	12 40 26.1	0.9	12.8	17.7 S, 178.8 W, 540 km				
	H: 12 30 35.7					Fiji Islands				
	58.4 N, 150.9 W, 25 km									
	Alaska aftershock					31	NUR	eP	18 04 45	0.8 4.4
31	KJN	eP	13 01 12				SOD	eP	18 03 57	
							KJN	eP	18 04 16	
31	NUR	iP	13 04 09.5	0.6	7.6	31	NUR	eP	18 40 35	
	SOD	eP	13 03 22				SOD	eP	18 39 47	
	KJN	eP	13 03 45				KJN	eP	18 40 12	0.9 4.6
	H: 12 53 43.6					H: 18 30 21				
	56.7 N, 152.2 W, 33 km					58.5 N, 150.0 W, 33 km				
	Alaska aftershock					Alaska aftershock				
31	NUR	eP	13 14 10	1.0	8.1	31	NUR	eP	18 47 35	0.9 11.9
	SOD	eP	13 13 22				SOD	iP	18 46 47.2	
		i	28.0				KJN	eP	18 47 09	
	KJN	eP	13 13 44				KEV	iP	18 46 29.1	0.7 14.4
		e	52			H: 18 37 36.8				
	H: 13 03 22					60.4 N, 146.0 W, 33 km				
	Alaska aftershock					Alaska aftershock				
31	NUR	eP	16 04 16	0.8	8.8	31	NUR	eP	20 40 02	1.0 16.2
	SOD	eP	16 03 28				SOD	eP	20 39 15	
	KJN	eP	16 03 50	0.9	6.4		KJN	eP	20 39 38	1.0 9.8
	H: 15 53 51.4					H: 20 29 40.8				
	57.0 N, 152.6 W, 33 km					57.3 N, 150.7 W, 33 km				
	Alaska aftershock					Alaska aftershock				
31	NUR	iP	16 42 29.0	1.0	24.4	31	NUR	eP	21 11 50	0.9 8.5
		e	35				SOD	eP	21 11 02	
	SOD	eP	16 41 41				KJN	eP	21 11 25	
	cont.									

March

					T	A
31	NUR	iP	21 14 18.0		1.0	32.5
		e	24			
	SOD	iP	21 13 30.6			
	KJN	iP	21 13 53.6 U	1.0	22.9	
	KEV	iP	21 13 12.6	1.1	36.5	
	H: 21 04 01.1					
	58.2 N, 150.3 W, 20 km					
	Alaska aftershock					
31	NUR	iP	21 22 46.0	1.0	16.2	
	SOD	iP	21 21 58.3 U			
	KJN	iP	21 22 21.8 U	0.8	11.9	
	KEV	iP	21 21 40.0	1.1	21.9	
	H: 21 12 32.5					
	58.5 N, 150.6 W, 33 km					
	Alaska aftershock					
31	NUR	eP	21 31 10	0.7	6.5	
	SOD	eP	21 30 22			
	KJN	eP	21 30 45			
	KEV	eP	21 30 04			
	H: 21 20 38.2					
	56.3 N, 152.7 W, 15 km					
	Alaska aftershock					
31	NUR	eP	21 44 19			
	SOD	eP	21 45 19			
	KJN	eP	21 44 51			

March

					T	A
31	NUR	eP	23 01 01		1.0	16.2
	SOD	eP	23 00 13			
	KJN	eP	23 00 35	1.2	16.8	
	KEV	eP	22 59 54	0.9	17.1	
	H: 22 50 36					
	56.8 N, 152.2 W, 33 km					
	Alaska aftershock					
31	NUR	iP	23 46 58.6	0.9	18.7	
	SOD	iP	23 46 10.2			
	KJN	iP	23 46 34.4 U	0.8	17.4	
		e	47 32			
	KEV	iP	23 45 52.0	0.9	20.5	
	H: 23 36 56.0					
	59.9 N, 145.8 W, 30 km					
	Alaska aftershock					

January 5, 1965

Urmas Luosto
Seppo Pirhonen

April				April			
		T	A			T	A
	KJN eP	06 25 58					
	i	26 03.8	0.9	18.3			
	KEV eP	06 25 17					
	H:	06 16 21					
	60.2 N, 147.1 W, 15 km						
	Alaska aftershock						
1	NUR iP	06 49 50.5	0.8	7.4	1	NUR eP	11 11 29
	SOD iP	06 49 03.0				SOD eP	11 10 39
	KJN eP	06 49 26	0.9	12.8		KJN eP	11 11 03
	KEV eP	06 48 44	0.7	14.4		KEV eP	11 10 21
	H:	06 39 48.5				H:	11 01 25.5
	60.5 N, 146.7 W, 10 km					60.4 N, 146.5 W, 10 km	
	Alaska aftershock					Alaska aftershock	
1	NUR iP	08 19 28.4	0.8	16.3	1	NUR eP	13 43 32
	SOD eP	08 18 42				SOD iP	13 42 43.0
	KJN eP	08 19 04	0.8	9.5		KJN eP	13 43 06
	H:	08 09 01				KEV eP	13 42 26
	56.6 N, 151.4 W, 25 km					H:	13 33 23
	Alaska aftershock					59.7 N, 148.2 W, 20 km	
1	SOD eP	08 37 25				Alaska aftershock	
	KJN eP	08 37 51			1	NUR iP	14 04 53.8
	H:	08 28 09				SOD iP	14 04 06.5 D
	60.0 N, 147.6 W, 20 km					KJN iP	14 04 30.1 D
	Alaska aftershock					KEV iP	14 03 48.9
1	NUR eP	08 43 27	0.9	8.5		H:	13 54 31.9
	SOD iP	08 42 39.0				57.5 N, 151.3 W, 20 km	
	KJN eP	08 43 02	0.8	7.1		Alaska aftershock	
	H:	08 33 22.0			1	NUR iP	15 33 03.1
	59.9 N, 146.6 W, 10 km					e	11
	Alaska aftershock					SOD iP	15 32 15.2 U
1	NUR eP	08 43 27	0.9	8.5		i	21.0
	SOD iP	08 42 39.0				KJN iP	15 32 38.8 D
	KJN eP	08 43 02	0.8	7.1		KEV iP	15 31 57.4
	H:	08 33 22.0				H:	15 22 38.3
	59.9 N, 146.6 W, 10 km					57.3 N, 152.9 W, 15 km	
	Alaska aftershock					Alaska aftershock	
1	SOD eP	09 03 44			1	NUR eP	16 39 16
	H:	08 54 04				e	21
	56.7 N, 152.3 W, 25 km					SOD iP	16 38 27.3
	Alaska aftershock					KJN eP	16 38 51
1	NUR eP	09 10 13	0.9	10.2		e	57
	KJN eP	09 09 55				H:	16 29 09.0
	H:	08 59 07				59.7 N, 146.5 W, 15 km	
	27.8 N, 139.5 E, 469 km					Alaska aftershock	
	South of Honshu, Japan					1	NUR iP
						SOD iP	17 33 44.3
						KJN eP	17 33 21
						H:	17 23 12.1
						56.1 N, 155.4 W, 20 km	
						Alaska aftershock	
1	NUR e	10 55 12			1	NUR iP	18 58 33.0
	SOD eP	10 54 35				SOD eP	18 57 45
	KJN eP	10 54 59				KJN eP	18 58 09
	H:	10 45 14				H:	18 48 32.9
	59.1 N, 148.5 W, 33 km					60.0 N, 142.4 W, 33 km	
	Alaska aftershock					Alaska aftershock	

April						April					
				T	A					T	A
2	NUR	eP	09 15 07	0.6	6.3	2	NUR	iP	12 29 37.8	0.7	7.7
	SOD	eP	09 14 19				SOD	eP	12 28 51		
	KJN	eP	09 14 42				KJN	eP	12 29 13	1.0	10.0
							H: 12 19 09				
2	NUR	eP	09 15 13				56.3 N, 152.2 W, 33 km				
	SOD	eP	09 14 24				Alaska aftershock				
	KJN	iP	09 14 48.1	0.8	9.5						
			H: 09 04 51.9			2	NUR	iP	13 38 47.0	0.8	8.6
			57.9 N, 151.1 W, 33 km				SOD	eP	13 37 51		
			Alaska aftershock					e	58		
							H: 13 28 38.6				
2	NUR	iP	10 08 23.0 U	0.9	73.6		60.2 N, 147.6 W, 20 km				
	i		09 24.0				Alaska aftershock				
	eS		16 56								
	SOD	iP	10 07 36.1 U			2	NUR	iP	16 09 33.6	0.7	20.6
	KJN	iP	10 07 58.7 U	1.1	70.2		i		38.4	1.0	166.0
	e		08 10				ePP		13 12		
	KEV	iP	10 07 18.6 U	1.0	40.8		epPP		42		
			H: 09 57 54.5				e		55		
			56.5 N, 152.8 W, 20 km				ePPP		14 52		
			Alaska aftershock				eSKS		19 53		
							eS		20 14		
2	NUR	iP	10 20 12.1	0.9	7.7		eSP		21 02		
	SOD	eP	10 19 25				eSS		26 28		
			H: 10 09 47.0				eSSS		30 00		
			56.7 N, 152.6 W, 33 km				eLQ		16 35.0		
			Alaska aftershock				SOD	eP	16 09 23		
							i		27.5		
							KEV	eP	16 09 21	1.0	75.5
							i		25.2		
2	NUR	eP	11 08 19				eS		19 44		
	SOD	eP	11 07 29				ePS		20 42		
	KJN	eP	11 07 53				eSS		26 08		
			H: 10 58 09.1				eLQ		16 32		
			59.3 N, 150.0 W, 25 km				H: 15 56 52.6				
			Alaska aftershock				5.8 N, 125.8 E, 179 km				
							Mindanao, Philippines				
2	NUR	iP	11 51 23.0	1.0	100.0	2	NUR	iP	18 27 55.3	0.7	6.5
	i		30.3				SOD	eP	18 27 08		
	eP'P'		12 20 48				H: 18 17 32				
	SOD	eP	11 50 34				56.8 N, 151.2 W, 33 km				
	KJN	iP	11 50 58.8 D	1.2	94.1		Alaska aftershock				
	i		51 31.3								
	ePcP		52			2	NUR	iP	18 35 23.0	1.1	16.7
	KEV	iP	11 50 18.0	1.0	18.4		e		27		
			H: 11 41 10.7				SOD	eP	18 34 33		
			58.8 N, 149.6 W, 20 km				KEV	eP	18 34 17		
			Alaska aftershock				H: 18 25 21.0				
2	NUR	eP	12 11 23	0.8	8.6		60.0 N, 147.8 W, 40 km				
							Alaska aftershock				

April				April					
			T	A		T	A		
2	NUR eP	19 41 32			2	NUR ePKP	23 46 44	1.1	9.5
	SOD eP	19 41 12				SOD ePKP	23 46 55		
	H:	19 28 22				H:	23 27 52.4		
		12.4 N, 143.5 E, 33 km					56.4 S, 25.1 W, 33 km		
		Mariana Islands					Sandwich Islands		
2	NUR eP	19 48 24	0.9	10.1	3	NUR iP	00 47 53.0	1.0	24.0
	SOD eP	19 47 36				e	48 03		
	H:	19 38 24.7				SOD iP	00 47 05.1 U		
		60.7 N, 145.8 W, 15 km				i	14.2		
		Alaska aftershock				KEV eP	00 46 48	0.8	14.7
2	NUR eP	19 50 25	1.0	18.0		H:	00 37 38.5		
	SOD iP	19 49 38.0					58.2 N, 148.9 W, 33 km		
	e	42					Alaska aftershock		
	H:	19 40 19.9			3	SOD eP	01 49 46		
		59.6 N, 144.8 W, 20 km				H:	01 40 26.5		
		Alaska aftershock					59.3 N, 147.7 W, 33 km		
2	NUR eP	20 19 49	1.0	14.0		Alaska aftershock			
	SOD eP	20 19 00			3	NUR eP	04 24 21		
	H:	20 09 42.0							
		59.8 N, 147.0 W, 10 km			3	NUR iP	04 24 32.0 U	1.2	85.5
		Alaska aftershock				e	48		
2	SOD eP	22 16 36				ePP	27 32		
	H:	22 07 20.6				eS	34 16		
		60.4 N, 147.2 W, 10 km				eSS	39 18		
		Alaska aftershock				eSSS	42 48		
2	NUR eP	22 44 36	1.2	34.2		eLQ	04 46		
	eS	52 48				eLR	04 50		
	ePS	53 12				SOD iP	04 24 38.8 U		
	e	42				KEV iP	04 24 41.0 U	1.5	248.0
	eScS	54 18				eS	34 30		
	e	55 42				eSS	39 48		
	eSS	56 48				eLQ	04 48		
	e	59 32				eLR	04 51		
	eLQ	23 00				H:	04 12 41.9		
	SOD eP	22 43 49					4.0 N, 96.6 E, 70 km		
	KEV eS	22 50 46					Sumatra		
	eScS	53 20			3	SOD eP	04 35 34		
	eSS	54 46							
	eLQ	22 56			3	NUR eP	04 40 21		
	H:	22 34 31.7				SOD eP	04 39 33		
		59.8 N, 144.3 W, 20 km							
		Alaska aftershock			3	NUR eP	05 01 52	0.6	6.3
2	NUR eP	23 40 01				SOD eP	05 01 03		
	SOD eP	23 39 12				H:	04 51 27		
	H:	23 29 59.3					57.0 N, 154.0 W, 33 km		
		60.5 N, 146.3 W, 15 km					Alaska aftershock		
		Alaska aftershock							

April

			T	A
3	NUR iP	05 05 24.7	0.6	10.0
	SOD eP	05 04 49		
	H: 04 54 49.2			
	43.8 N, 143.3 E, 33 km			
	Hokkaido, Japan			
3	NUR eP	07 06 08		
	H: 06 56 10			
	60.7 N, 149.4 W, 33 km			
	Alaska aftershock			
3	NUR iP	08 48 50.0	1.2	114.0
	e	49 07		
	ePP	51 08		
	ePPP	52 40		
	eS	56 45		
	eScS	58 36		
	eLQ	09 04.2		
	eLR	09 06.5		
	SOD iP	08 48 02.2 U		
	KEV iP	08 47 44.8 U	1.3	123.2
	eS	55 05		
	e	59 32		
	H: 08 38 42.8			
	59.6 N, 144.7 W, 10 km			
	Alaska aftershock			
3	NUR eP	08 56 45		
	e	49	1.1	30.9
	SOD eP	08 56 00		
	KEV eP	08 55 46		
	H: 08 46 27			
	57.9 N, 150.5 W, 15 km			
	Alaska aftershock			
3	NUR eP	09 58 39		
	SOD eP	09 57 52		
	H: 09 48 16			
	57.1 N, 150.5 W, 33 km			
	Alaska aftershock			
3	NUR eP	13 03 42		
	SOD eP	13 02 48		
	KJN iP	13 03 17.3 U	1.0	10.0
	H: 12 53 36.4			
	60.3 N, 147.1 W, 15 km			
	Alaska aftershock			
3	NUR eP	14 02 11		
	KJN eP	14 02 54	1.1	16.6
	H: 13 52 02			
	58.9 N, 147.3 W, 33 km			
	Alaska aftershock			

April

			T	A
3	NUR eP	16 37 48	0.8	4.3
	KJN eP	16 37 37		
3	NUR ePS	17 48 44		
	eSS	54 40		
	H: 17 21 10			
	1.9 N, 102.2 W, 33 km			
	Galapagos Islands			
3	NUR iP	20 07 56.6	0.9	10.1
	i	08 02.1		
	SOD iP	20 07 08.2		
	i	13.5		
	KJN iP	20 07 31.7	0.9	10.1
	i	37.6	0.8	20.5
	iPcP	08 29.6		
	KEV eP	20 06 55	0.7	13.1
	H: 19 57 53.3			
	60.1 N, 148.0 W, 20 km			
	Alaska aftershock			
3	NUR eP	20 33 49		
	SOD eP	20 33 02		
	KJN eP	20 33 17		
	H: 20 23 25			
	57.0 N, 146.1 W, 25 km			
	Alaska aftershock			
3	NUR iP	20 57 23.8	0.8	8.6
	SOD eP	20 56 35		
	KJN eP	20 57 00	0.9	9.2
	H: 20 47 25			
	60.6 N, 140.9 W, 15 km			
	Alaska aftershock			
3	NUR iP	22 26 13.0	0.8	14.4
	e	21	0.8	24.5
	SOD iP	22 25 25.3		
	KJN iP	22 25 48.6	0.9	11.9
	KEV iP	22 25 08.0	0.7	11.8
	H: 22 15 48.3			
	57.1 N, 151.9 W, 15 km			
	Alaska aftershock			
3	NUR iP	22 43 31.9	0.9	386.4
	e	49		
	e	44 16		
	e	45 28		
	ePP	42		
	ePPP	47 02		
	iS	51 31		
	ePS	48		
	cont.			

April

T A

eScS 53 12
eSS 55 38
eP'P' 23 13 30
eLQ 22 57.5
SOD iP 22 42 43.0 D
e 43 00
eS 50 10
e 23
KJN iP 22 43 06.6 D 1.0 283.4
eP'P' 23 13 34
KEV iP 22 42 25.0 1.0 159.1
e 35
i 43.0
e 44 07
ePP 14
iS 49 26
ePS 42
eScS 52 14
eSS 53 14
eLQ 22 54.8

H: 22 33 42.2
61.6 N, 147.6 W, 40 km
Alaska aftershock

4 NUR eP 00 43 02 1.0 8.0
SOD eP 00 42 15
KJN eP 00 42 38 1.0 6.5

4 KJN eP 01 26 44
4 NUR eP 02 08 55 1.0 12.0
SOD eP 02 08 07
KJN eP 02 08 23 1.1 10.6

H: 01 58 41
58.4 N, 146.8 W, 33 km
Alaska aftershock

4 NUR iP 02 45 42.0 0.5 14.5
SOD eP 02 45 05
KJN eP 02 45 18

H: 02 35 05.1
44.2 N, 146.0 E, 62 km
Kurile Islands

4 NUR iP 04 45 01.2 0.8 25.9
SOD iP 04 44 12.5 D
ePcP 45 22
KJN iP 04 44 36.7 D 0.7 38.4
KEV iP 04 43 54.1 D 0.7 36.7

H: 04 34 56.9
60.3 N, 146.5 W, 5 km
Alaska aftershock

April

T A

4 NUR iP 05 04 01.3 1.6 195.5
e 05 46
ePPP 07 30
eS 12 10
eScS 13 42
eSS 16 18
eP'P' 33 38
eLQ 05 18.6
eLR 05 21.0
SOD iP 05 03 14.0
KJN iP 05 04 36.9 U 1.4 188.8
KEV iP 05 02 55.8 1.1 109.4
ePP 04 48
eS 10 11
e 11 02
eScS 12 50
eSS 14 16
eLQ 05 15.6
eLR 05 17.5

H: 04 54 01.7
60.1 N, 146.7 W, 40 km
Alaska aftershock

4 NUR eP 05 20 59 0.9 21.8
e 21 08
SOD iP 05 20 11.0
i 20.6
KJN eP 05 20 34
i 43.7 1.0 23.5

H: 05 10 34.4
57.3 N, 149.4 W, 20 km
Alaska aftershock

4 NUR iP 07 03 27.8 1.0 18.0
e 33
SOD iP 07 02 39.2 D
i 44.2
KJN iP 07 03 03.4 D 0.9 26.0
i 07.8
KEV iP 07 02 21.5 D 0.8 36.8

H: 06 53 25.9
60.4 N, 146.0 W, 15 km
Alaska aftershock

4 NUR eP 07 08 42
SOD eP 07 08 48
KJN eP 07 08 39

H: 06 57 12
5.5 N, 95.3 E, 157 km
Northern Sumatra

April						April						
				T	A					T	A	
4	NUR	iP	08 50 58.5	0.7	64.5	4	SOD	eP	11 19 21			
		e	51 01					H:	11 10 07			
		e	53 40						59.9 N, 149.3 W, 33 km			
		iS	59 32						Alaska aftershock			
		eP'P'	09 19 58			4	NUR	eP	14 00 13			
	SOD	iP	08 50 11.5 U					SOD	e(P)	13 59 34		
	KJN	iP	08 50 34.6					H:	13 49 45.4			
	KEV	iP	08 49 55.0	1.0	70.6				56.6 N, 153.9 W, 25 km			
		ePP	51 52						Alaska aftershock			
		iS	57 31			4	NUR	iP	15 18 19.2	1.1	11.9	
		eScS	59 44					SOD	eP	15 17 30		
		H:	08 40 29.8					KJN	eP	15 17 54	1.2	16.8
			56.5 N, 152.6 W, 15 km					H:	15 08 12.3			
			Alaska aftershock						59.6 N, 146.9 W, 15 km			
4	NUR	iP	08 59 04.8	0.8	10.1				Alaska aftershock			
	SOD	eP	08 58 17			4	NUR	iP	17 56 38.4 U	1.1	333.2	
	KJN	eP	08 58 41					e	45	0.7	425.7	
4	NUR	iP	09 21 22.0 U	0.8	169.9			eS	18 05 10			
		i	38.9					e	07 05			
		ePP	23 54					eP'P'	25 37			
		eS	29 52				SOD	iP	17 55 51.0 U			
		eP'P'	50 15					iS	18 03 42			
	SOD	iP	09 20 34.9 U				KJN	iP	17 56 14.0 U			
		eS	28 24					eS	18 04 27			
	KJN	iP	09 20 57.4 U	0.9	101.1			e	06 23			
		eS	29 07					eP'P'	25 45			
		eP'P'	50 29				KEV	iP	17 55 33.9 U	1.1	292.7	
	KEV	iP	09 20 17.0 U					ePP	57 34			
		e	24					eS	18 03 10			
		e	38					eLQ	18 09.5			
		eS	27 50					eLR	18 11			
		H:	09 10 55.1					H:	17 46 08.6			
			56.9 N, 152.7 W, 15 km						56.3 N, 154.4 W, 25 km			
			Alaska aftershock						Alaska aftershock			
4	NUR	eP	09 59 52	0.7	6.5	4	NUR	iP	18 10 12.0 U	1.3	232.5	
	SOD	eP	09 59 05					eS	18 42			
		H:	09 49 28					e	21 02			
			56.9 N, 151.7 W, 33 km					eP'P'	39 05			
			Alaska aftershock					SOD	iP	18 09 24.5 U		
4	NUR	eP	10 47 45	0.8	8.6			eS	17 14			
	SOD	eP	10 46 56					ePS	32			
		H:	10 37 36				KJN	iP	18 09 46.9 U	1.1	137.7	
			59.8 N, 150.0 W, 10 km					eS	17 57			
			Alaska aftershock					ePS	18 13			
								eScS	19 35			
								eP'P'	39 22			

cont.

April

April

				T	A					T	A	
	KEV	iP	18 09 07.0 U	1.1	174.7	5	NUR	iP	01 32 42.9 U	0.9	67.2	
		eS	16 42					e	52	0.9	174.7	
	H:		17 59 43.3					i	33 28.5			
			56.4 N, 154.5 W, 25 km					eS	41 18			
			Alaska aftershock					eP'P'	02 01 45			
4	NUR	iP	18 26 22.9 U	0.9	52.1		SOD	iP	01 31 56.1 U			
		e	30				KJN	iP	01 32 19.1 U	0.9	62.0	
	SOD	iP	18 25 35.7 U					i	27.1			
	KJN	iP	18 26 01.7	1.1	29.7			eS	40 32			
	KEV	iP	18 25 18.7	1.0	105.6			ePS	52			
	H:		18 15 52.4					eP'P'	02 01 54			
			56.2 N, 154.5 W, 25 km				KEV	iP	01 31 38.8 U	0.7	62.0	
			Alaska aftershock					ePP	33 42			
								eS	39 16			
							H:		01 22 13.3			
4	NUR	eP	18 41 12	0.8	5.8				52.2 N, 153.5 W, 25 km			
	SOD	eP	18 40 25						Alaska aftershock			
4	NUR	eP	18 51 56	0.8	8.6	5	NUR	iP	01 52 13.1	0.8	43.2	
	SOD	eP	18 51 09					e	20			
	H:		18 41 28					eS	02 00 48			
			56.4 N, 153.0 W, 33 km				SOD	iP	01 51 26.5			
			Alaska aftershock				KJN	iP	01 51 50.0	0.7	22.2	
4	NUR	iP	20 11 53.2	1.1	26.2			ePcP	52 45			
	SOD	eP	20 10 58				KEV	iP	01 51 10.0	0.8	59.6	
		e	11 04				H:		01 41 45.0			
	KJN	eP	20 11 22						56.2 N, 153.3 W, 35 km			
	H:		20 01 44.8						Alaska aftershock			
			59.5 N, 147.6 W, 33 km				5	NUR	iP	01 55 55.7 D	0.6	13.8
			Alaska aftershock					SOD	eP	01 55 26		
4	NUR	iP	21 50 44.5	1.2	28.5			KJN	iP	01 55 35.1 D	0.9	27.8
	SOD	iP	21 50 34.2 D					ePcP	56 32			
	KJN	iP	21 50 33.9 D	1.3	46.3			KEV	eP	01 55 12		
	H:		21 38 14.0					H:		01 44 50.3		
			10.5 N, 122.1 E, 33 km							36.4 N, 139.9 E, 67 km		
			Philippine Islands							Central Honshu, Japan		
4	NUR	eP	22 27 04	0.7	15.5		5	NUR	eP	02 46 13	1.1	16.7
	SOD	eP	22 26 15					SOD	eP	02 45 26		
	KJN	eP	22 26 38					KJN	eP	02 45 50	0.9	6.3
	H:		22 16 54.5					H:		02 36 10.3		
			59.4 N, 145.2 W, 10 km							60.1 N, 145.8 W, 15 km		
			Alaska aftershock							Alaska aftershock		
4	NUR	eP	23 48 29				5	NUR	iP	03 58 23.9	0.8	15.8
	SOD	eP	23 47 42					SOD	iP	03 57 36.5		
	KJN	eP	23 48 13					KJN	eP	03 58 00		
								H:		03 47 57		
										56.7 N, 151.3 W, 25 km		
										Alaska aftershock		

April				April			
		T	A			T	A
6	SOD eP 19 08 24 H: 18 59 12 60.0 N, 147.1 W, 33 km Alaska aftershock			7	SOD eP 05 44 09 H: 05 34 56 60.0 N, 146.7 W, 20 km Alaska aftershock		
6	NUR eP 19 51 16 SOD eP 19 50 29 H: 19 40 44.5 56.0 N, 153.9 W, 25 km Alaska aftershock	1.0	8.0	7	SOD eP 06 11 15 KJN eP 06 11 30 H: 06 02 00 60.0 N, 145.7 W, 33 km Alaska aftershock		
6	NUR eP 23 08 19 SOD eP 23 07 31 KJN eP 23 07 57 H: 22 57 53.3 57.1 N, 153.3 W, 15 km Alaska aftershock			7	NUR eP 08 13 31 SOD iP 08 12 42.5 KJN eP 08 13 06 H: 08 03 13.7 58.2 N, 152.2 W, 30 km Alaska aftershock	1.0	6.4
7	NUR eP 01 53 42 eS 02 01 54 eScS 03 24 eSS 05 54 eLQ 02 08 SOD eP 01 52 53 KJN iP 01 53 18.0 ePcP 54 14 KEV eP 01 52 34 e(SS) 02 04 13 H: 01 43 28.7 58.5 N, 154.5 W, 30 km Alaska aftershock	0.7	5.2	7	SOD eP 08 19 57 H: 08 10 48 60.0 N, 146.9 W, 33 km Alaska aftershock		
				7	NUR eP 13 31 20 e 32 52 eS 42 50 e 44 23 esSS 49 38 SOD iP 13 31 12.5 U epP 50 KJN iP 13 31 11.8 U epP 56 ePP 34 58 eSKS 41 25 KEV iP 13 31 10.8 U H: 13 18 18.9 0.1 N, 123.2 E, 150 km Northern Celebes	1.0	26.0
		1.0	7.5			1.0	170.0
7	NUR eP 04 03 52 SOD eP 04 03 02 KJN eP 04 03 26 H: 03 53 57 61.1 N, 148.7 W, 33 km Alaska aftershock	0.8	5.8			0.9	41.0
7	NUR eP 04 45 33 SOD eP 04 44 47 i 53.3 KJN eP 04 45 11 H: 04 35 18.6 58.3 N, 149.7 W, 15 km Alaska aftershock			7	NUR eP 16 30 07 SOD eP 16 29 19 KJN eP 16 29 44 H: 16 19 59 60.7 N, 148.0 W, 33 km Alaska aftershock		
7	NUR iP 05 04 59.0 D SOD iP 05 04 11.6 U KJN iP 05 04 34.3 U H: 04 54 42 58.1 N, 157.4 W, 33 km Alaska aftershock	0.9	30.2	7	NUR eP 18 12 48 i 55.4 U eS 21 14 SOD eP 18 12 01 i 07.9 D cont.	1.0	20.0
		1.0	17.1			1.1	47.5

April				April			
		T	A			T	A
9	NUR eP 05 53 27 SOD iP 05 52 38.0 KJN eP 05 53 02 H: 05 43 24 60.0 N, 148.2 W, 33 km Alaska aftershock			KJN iP 16 21 24.6 D KEV eP 16 20 40 H: 16 11 31.5 58.1 N, 152.5 W, 30 km Alaska aftershock		0.8	11.6
9	SOD eP 10 46 38 KJN eP 10 47 06 H: 10 37 15 59.1 N, 148.4 W, 20 km Alaska aftershock			9 SOD eP 17 23 57 H: 17 14 45 60.1 N, 146.1 W, 33 km Alaska aftershock			
9	NUR iP 12 43 31.8 U SOD iP 12 42 43.0 U KJN iP 12 43 06.6 ePcP 44 04 KEV eP 12 42 25 H: 12 33 23.9 59.5 N, 148.9 W, 20 km Alaska aftershock	1.1	35.7	9 NUR iP 18 28 23.8 U 9 NUR eP 22 22 36 H: 22 12 31 59.8 N, 155.7 W, 33 km Alaska aftershock	0.9		26.9
9	NUR eP 13 16 23 ePcP 17 07 eS 24 30 eSS 28 36 SOD eP 13 15 33 KJN eP 13 15 58 KEV eP 13 15 17 eS 22 26 eSS 26 28 H: 13 06 15.2 59.6 N, 146.1 W, 15 km Alaska aftershock	1.3	40.9	9 NUR ePS 22 23 09 eSS 28 26 eSSS 33 26 H: 21 54 42.1 18.5 S, 71.5 W, 39 km Southern Peru			
9	NUR eP 13 32 55 SOD eP 13 32 07 KJN eP 13 32 31 H: 13 22 29.6 56.8 N, 152.0 W, 33 km Alaska aftershock	0.8	8.6	10 NUR eP 00 39 46 SOD eP 00 38 57 KJN eP 00 39 22 H: 00 29 46.2 60.3 N, 147.1 W, 33 km Alaska aftershock	1.2		14.3
9	NUR eP 14 24 43 SOD eP 14 23 55 KJN eP 14 24 21 H: 14 14 36.5 59.8 N, 146.0 W, 10 km Alaska aftershock	1.0	10.7	10 NUR iP 01 18 17.0 D i 23.8 eS 26 38 eP'P' 47 33 eLQ 01 33 eLR 01 36 SOD iP 01 17 29.0 D i 33.1 KJN iP 01 17 53.2 D i 18 00.4 eP'P' 47 38 KEV iP 01 17 11.3 eS 24 34 eLQ 01 30.5 H: 01 08 00.2 58.4 N, 150.6 W, 15 km Alaska aftershock	1.1		216.5
9	NUR iP 16 21 48.3 SOD eP 16 20 59 cont.	0.8	15.8	10 NUR eP 06 21 08 SOD eP 06 20 20	1.0		12.0

April						April					
				T	A						
						T			A		
10	NUR	eP	12 16 37			11	NUR	eP	00 49 35		
	SOD	eP	12 15 41				SOD	eP	00 48 54		
	KJN	eP	12 16 14				KJN	eP	00 49 17		
	H: 12 06 25						H: 00 39 10.6				
	59.6 N, 152.2 W, 25 km						57.4 N, 150.0 W, 15 km				
	Alaska aftershock						Alaska aftershock				
10	NUR	eP	18 05 23	0.9	6.7	11	NUR	iPKP	01 23 30.4 D	1.0	1510.0
	SOD	eP	18 04 36				iSKP	26 40.7			
	KJN	eP	18 04 56				ePKS	27 10			
	H: 17 54 57.5						SOD	ePKP	01 23 12		
	56.7 N, 152.0 W, 33 km						i	19.5			
	Alaska aftershock						KJN	iPKP	01 23 18.1	0.8	24.2
							i	26.8 U			
							e	25 31			
							eSKP	26 31			
							ePKS	27 00			
10	NUR	iP	19 16 00.6	1.1	54.7		KEV	ePKP	01 23 08		
	e		15				i	15.7			
	eScS		25 44				ePKS	26 48			
	eSS		28 26				H: 01 04 30.2				
	SOD	iP	19 15 12.0 D				29.0 S, 178.9 W, 302 km				
	i		18.2				Kermadec Islands				
	e		16 03			11	NUR	eP	06 22 26	0.9	31.0
	KJN	iP	19 15 35.8 D	1.1	52.8		H: 06 11 02.1				
	i		41.2				25.2 N, 124.4 E, 74 km				
	KEV	iP	19 14 53.2 D	1.2	55.5		Ryukyu Islands				
	H: 19 05 52.6										
	59.7 N, 148.2 W, 15 km										
	Alaska aftershock										
10	NUR	iP	21 54 13.3 D	0.8	93.6	11	NUR	eP	07 43 58		
	i		18.3				SOD	eP	07 43 09		
	ePPP		57 54				KJN	eP	07 43 34		
	eS		22 02 26				H: 07 33 52				
	eP'P'		23 47				59.6 N, 144.8 W, 33 km				
	eLQ		22 09				Alaska aftershock				
	SOD	iP	21 53 24.3 D			11	NUR	iP	09 34 18.7	0.8	11.5
	i		29.0				SOD	eP	09 33 31		
	KJN	iP	21 53 48.1 D	1.3	124.7		KJN	eP	09 33 55	1.3	22.7
	i		52.5				KEV	eP	09 33 14	1.0	20.4
	i		54 37.5				H: 09 23 51.5				
	i		55 31.3				56.4 N, 152.2 W, 33 km				
	e		57 07				Alaska aftershock				
	KEV	iP	21 53 06.2	0.7	49.8	11	SOD	eP	10 29 49		
	i		11.0				H: 10 20 40				
	i		54 43.5				60.8 N, 143.5 W, 20 km				
	eS		22 00 18				Alaska aftershock				
	eLQ		22 05.5			11	NUR	iP	11 46 02.7	0.8	15.8
	H: 21 44 06.7						SOD	iP	11 45 13.6 U		
	60.1 N, 153.7 W, 10 km						i	19.2			
	Alaska aftershock						cont.				

April

				T	A
	KJN	iP	11 45 37.3 U	0.8	17.4
	KEV	iP	11 44 55.9	0.8	30.9
	H: 11 36 00.5				
	60.4 N, 146.4 W, 15 km				
	Alaska aftershock				
11	NUR	eP	12 27 09	1.1	19.0
		e	14		
		eS	35 40		
	SOD	eP	12 26 20		
		e	26		
	KJN	eP	12 26 50	1.0	8.2
		e	56		
	H: 12 16 41.1				
	56.6 N, 151.0 W, 20 km				
	Alaska aftershock				
11	NUR	eP	16 05 16		
		e	19		
		eS	08 54		
		eLQ	16 09		
		eLR	16 10		
	SOD	eP	16 06 26		
	KJN	eP	16 05 54	1.5	51.4
		i	56.8 U	2.0	436.9
		eS	10 14		
	KEV	eP	16 06 50		
		eS	11 48		
		e	12 12		
		eLQ	16 13.1		
		eLR	16 14.5		
	H: 16 00 42.8				
	40.5 N, 25.0 E, 33 km				
	Aegean Sea				
11	SOD	iP	16 19 58.6		
	H: 16 10 25				
	58.1 N, 149.8 W, 20 km				
	Alaska aftershock				
11	NUR	eP	22 12 40	1.0	10.0
	SOD	eP	22 11 51		
	KJN	eP	22 12 16	0.8	7.6
		i	20.5		
	H: 22 02 38.2				
	60.2 N, 146.9 W, 20 km				
	Alaska aftershock				
11	NUR	eP	23 15 27		

April

				T	A
11	NUR	iP	23 21 25.5	1.0	14.0
	SOD	iP	23 20 36.9 U		
		i	41.7		
	KJN	iP	23 21 01.5	1.0	17.9
	KEV	iP	23 20 19.0	1.0	24.2
	H: 23 11 22.8				
	60.1 N, 146.5 W, 20 km				
	Alaska aftershock				
12	KJN	eP	01 25 16		
	H: 01 15 38				
	60.0 N, 144.9 W, 30 km				
	Alaska aftershock				
12	NUR	iP	01 34 59.0	1.0	364.0
		ePP	37 23		
		e	40 04		
		eS	43 32		
		eP'P'	02 04 04		
	SOD	iP	01 34 11.8 U		
		ePS	42 12		
	KJN	iP	01 34 34.9 U	1.3	387.5
		ePcP	35 19		
		ePP	36 49		
		eS	42 49		
		eP'P'	02 04 11		
	KEV	iP	01 33 54.0	0.8	98.6
		e	35 16		
		ePPP	37 13		
		eScP	38 52		
		eS	41 32		
		eLQ	01 48.2		
		eLR	01 49		
	H: 01 24 31.2				
	56.6 N, 152.2 W, 22 km				
	Alaska aftershock				
12	NUR	iP	01 35 58.6		
	SOD	iP	01 35 09.5		
	KEV	eP	01 34 51		
12	NUR	ePKP	06 19 44	1.0	24.0
	KJN	ePKP	06 19 37	1.2	12.9
	H: 06 00 46.4				
	13.6 S, 166.0 E, 33 km				
	New Hebrides Islands				
12	NUR	eP	09 45 11	0.9	60.5
		i	12.5		
		eS	53 44		
	cont.				

April					April					
			T	A			T	A		
13	NUR	eP	03 24 30	0.7	11.4	13	SOD	eP	11 39 28	
							KJN	eP	11 39 29	
13	NUR	eP	03 29 28	0.9	36.5				H: 11 26 52.1	
	SOD	iP	03 29 30.2 D						6.9 N, 126.6 E, 110 km	
	KJN	iP	03 29 21.2 U	1.1	31.7				Philippine Islands	
	KEV	iP	03 29 34.0 D	0.8	29.4	13	SOD	eP	12 34 58	
			H: 03 20 04.5				KJN	iP	12 35 19.2	1.0
			27.6 N, 90.2 E, 52 km				KEV	iP	12 34 46.1	1.2
			Bhutan					eS	42 06	
13	SOD	eP	07 15 58					eScS	44 30	
			H: 07 06 40					eSS	45 46	
			59.7 N, 147.4 W, 33 km					eLQ	12 47	
			Alaska aftershock					eLR	12 48.5	
									H: 12 25 36	
13	NUR	iP	08 33 41.6	0.9	48.1				59.4 N, 143.9 W, 40 km	
		eS	36 30						Alaska aftershock	
		eLQ	08 37			13	SOD	iP	14 14 33.1 D	
		eLR	08 37.5					i	39.9	
	SOD	iP	08 35 03.1 D				KJN	iP	14 14 56.4 D	0.9
	KJN	iP	08 34 35.4 U	0.7	31.0			i	15 03.6	42.2
		eS	38 12				KEV	eP	14 14 15	1.0
	KEV	eP	08 35 27	1.3	55.7			i	28.1 D	40.8
		eS	39 52						H: 14 05 00.0	
		eLQ	08 41.0						57.6 N, 151.2 W, 25 km	
		eLR	08 41.5						Alaska aftershock	
			H: 08 30 03.6			13	NUR	eP	16 24 33	0.9
			45.3 N, 18.1 E, 33 km					eS	33 06	10.0
			Northern Yugoslavia					eScS	34 28	
13	NUR	eP	08 52 16	1.0	17.8			eSS	36 50	
	SOD	eP	08 51 21					eLQ	16 40	
	KJN	eP	08 51 46	0.7	3.7		SOD	eP	16 23 45	
		i	52 24.3 U	0.8	16.2		KJN	eP	16 24 10	1.1
	KEV	eP	08 51 02					iPcP	51.0	15.5
			H: 08 41 53.9				KEV	eP	16 23 27	
			58.4 N, 151.2 W, 33 km					ePS	31 10	
			Alaska aftershock						H: 16 14 06.3	
									56.6 N, 152.1 W, 33 km	
									Alaska aftershock	
13	NUR	iP	08 57 18.5 D	0.8	21.5	13	NUR	eP	17 53 25	
	SOD	iP	08 56 55.4 D				SOD	eP	17 52 29	
	KJN	iP	08 57 01.9 D	1.0	32.1				H: 17 43 26	
	KEV	iP	08 56 48.3 D	0.9	59.9				61.1 N, 147.4 W, 35 km	
			H: 08 45 24.6						Alaska aftershock	
			22.3 N, 142.1 E, 309 km			13	NUR	eP	18 24 30	
			Bonin Islands				SOD	eP	18 23 42	
13	KJN	eP	11 37 54				KJN	eP	18 24 06	0.8
			H: 11 24 04						H: 18 14 21.7	7.1
			7.1 S, 129.2 E, 126 km						59.2 N, 147.1 W, 20 km	
			Banda Sea						Alaska aftershock	

April						April						
				T	A					T	A	
15	NUR	iP	08 33 51.0	1.1	33.3	15	NUR	iP	16 45 50.0	1.2	20.0	
	SOD	eP	08 33 03				i		56.8			
	KJN	iP	08 33 26.2 U	1.2	35.3		SOD	iP	16 45 56.8			
	KEV	eP	08 32 45	1.0	26.5		i		46 06.3 U			
	H: 08 23 27.4						KJN	eP	16 45 46	1.1	30.4	
	57.4 N, 149.5 W, 15 km						i		55.5 U	1.0	46.6	
	Alaska aftershock						KEV	eP	16 46 01			
							i		10.9 U	0.9	47.9	
15	SOD	eP	09 33 28				H: 16 35 57.5					
	H: 09 24 11						21.7 N, 88.0 E, 36 km					
	60.0 N, 148.6 W, 33 km						India-East Pakistan					
	Alaska aftershock											
15	NUR	eP	12 04 53	1.0	18.0	15	NUR	ePKP	17 12 13	0.7	6.5	
	KJN	eP	12 04 29				SOD	ePKP	17 11 59			
							KJN	ePKP	17 12 04	0.5	7.5	
							H: 16 52 26.0					
							37.7 S, 177.5 E, 41 km					
							North Island					
15	NUR	ePKP	15 22 21	0.9	6.7	15	NUR	iP	20 41 03.2	0.7	18.1	
	SOD	ePKP	15 22 12				i		11.8			
	KJN	iPKP	15 22 13.7	0.8	9.5		SOD	iP	20 40 16.2 U			
	H: 15 02 28						e		24			
	45.2 S, 167.0 E, 33 km						KJN	iP	20 40 38.9	1.0	15.5	
	South Island						KEV	iP	20 39 58.1	0.8	17.6	
							H: 20 30 35.9					
							56.8 N, 154.2 W, 20 km					
							Alaska aftershock					
15	NUR	iP	15 41 13.2 U	0.8	155.5	15	NUR	eP	20 59 11	1.0	22.0	
	i		15.1				SOD	eP	21 00 17			
	iPcP		54.6				KJN	iP	20 59 49.2 D	0.9	19.7	
	ePP		43 32				H: 20 54 40					
	e		46 08				40.0 N, 24.7 E, 121 km					
	eS		49 44				Aegean Sea					
	e		50 30									
	eScS		51 08				15	NUR	eP	22 44 26		
	eSS		53 22				SOD	eP	22 45 48			
	eP'P'		16 10 05				KJN	eP	22 45 15			
	eLQ		15 56.6				H: 22 40 45.5					
	eLR		15 59.6				45.3 N, 18.1 E, 33 km					
	SOD	iP	15 40 26.1 U				Northern Yugoslavia					
	i		31.9									
	eS		48 16				15	NUR	eP	22 44 26		
	ePS		30				SOD	eP	22 45 48			
	KJN	iP	15 40 48.5 U	1.0	158.1		KJN	eP	22 45 15			
	eS		49 00				H: 22 40 45.5					
	ePS		13				45.3 N, 18.1 E, 33 km					
	eScS		50 36				Northern Yugoslavia					
	KEV	iP	15 40 08.3 U	0.9	205.2	16	SOD	eP	00 14 53			
	i		18.4				H: 00 05 13					
	ePP		42 04				56.4 N, 149.2 W, 20 km					
	eS		47 44				Alaska aftershock					
	e		49 32									
	eSS		51 12				16	NUR	eP	01 15 46		
	eLQ		15 54.1				eS		24 58			
	eLR		15 56.5				ePS		25 32			
	H: 15 30 47.1						eSS		29 24			
	56.5 N, 154.4 W, 35 km						eSSS		32 40			
	Alaska aftershock						cont.					

April

April

				T	A
	SOD	eP	01 15 15		
	KJN	iP	01 15 25.0 U	1.1	55.4
	KEV	eP	01 15 05	1.8	131.3
		eS	23 34		
		eScS	25 01		
		eSS	27 40		
	H: 01 04 34.5				
	37.0 N, 142.7 E, 38 km				
	Honshu, Japan				
16	NUR	ePKP	02 54 51		
		i	55.0		
		eSKP	58 12		
		ePKS	23		
	SOD	ePKP	02 54 41		
	KJN	ePKP	02 54 46		
		e	48	0.8	15.8
		iSKP	58 00.0		
		ePKS	11		
	KEV	ePKP	02 54 40	0.9	15.4
	H: 02 35 48.9				
	21.5 S, 170.5 E, 110 km				
	Loyalty Islands				
16	NUR	eP	03 30 01	0.9	5.0
		i	12.0		
	SOD	eP	03 29 13		
		i	23.9		
	KJN	eP	03 29 39		
		i	47.8		
	KEV	eP	03 29 06	1.0	12.2
	H: 03 19 34.8				
	57.2 N, 151.4 W, 10 km				
	Alaska aftershock				
16	NUR	iP	06 32 17.3 D	0.9	20.2
	SOD	eP	06 31 39		
	KJN	eP	06 31 52	0.8	9.5
	KEV	eP	06 31 26		
	H: 06 21 32.3				
	45.1 N, 151.3 E, 33 km				
	Kurile Islands				
16	NUR	eP	07 47 41	1.0	8.0
	SOD	eP	07 46 53		
	KJN	eP	07 47 16		
	KEV	eP	07 46 34		
	H: 07 37 35.8				
	59.6 N, 146.9 W, 33 km				
	Alaska aftershock				

				T	A
16	KJN	ePKP	12 03 56		
	H: 11 45 36.9				
	23.8 S, 180.0, 530 km				
	South of Fiji Islands				
16	NUR	iP	12 06 19.5	0.8	13.0
	SOD	iP	12 05 31.1 D		
	KJN	iP	12 05 54.9 D	0.9	13.8
	KEV	eP	12 05 13		
	H: 11 56 04.5				
	58.3 N, 150.7 W, 33 km				
	Alaska aftershock				
16	NUR	iP	12 21 31.6 D	0.8	30.2
	SOD	iP	12 20 43.0 U		
	KJN	iP	12 21 06.4 U	0.8	18.2
	KEV	iP	12 20 25.0	0.7	13.1
	H: 12 11 15.7				
	58.2 N, 152.5 W, 33 km				
	Alaska aftershock				
16	NUR	iP	13 54 00.4	1.0	182.0
		i	12.2 U		
		eS	14 02 46		
		ePPS	03 32		
		eScS	04 13		
		eSS	07 30		
		eLQ	14 12		
		eLR	14 15		
	SOD	eP	13 53 14		
		i	25.9		
	KJN	eP	13 53 33	1.0	79.6
		i	42.0 D		
	KEV	eP	13 52 57	1.0	67.3
		i	58.9 U		
		ePS	14 01 12		
		eSS	05 10		
		eLQ	14 07.5		
	H: 13 43 08.9				
	52.1 N, 169.4 W, 33 km				
	Fox Islands				
16	NUR	iP	14 23 30.3	0.8	15.8
	SOD	eP	14 22 44		
	KJN	eP	14 23 05	0.7	12.1
	H: 14 12 37.6				
	52.3 N, 169.9 W, 40 km				
	Fox Islands				

April				April				
			T	A		T	A	
	eS	07 50			SOD	iP	10 09 04.8 D	
	eP'P'	29 02				i	09.3	
KEV	eP	04 58 53			KJN	iP	10 09 28.2 D 1.0 24.0	
	i	57.0	1.0	193.8	KEV	iP	10 08 46.3 D 0.9 41.0	
	ePP	05 00 56			H: 09 59 52.4			
	eS	06 30			60.4 N, 145.9 W, 20 km			
	ePS	42			Alaska aftershock			
	eSS	10 20			17	SOD	eP 11 57 58	
	e	12 24			H: 11 48 44.7			
	eLQ	05 13			60.0 N, 145.5 W, 33 km			
	eLR	05 15			Alaska aftershock			
H: 04 49 30.5						17	SOD	eP 12 15 14
56.4 N, 152.9 W, 25 km						H: 12 06 00		
Alaska aftershock						60.4 N, 145.0 W, 33 km		
17	NUR	ePKP 06 18 31	0.7	32.3	Alaska aftershock			
	i	34.5			17	NUR	iPKP 15 03 19.6 0.7 7.6	
	SOD	ePKP 06 18 26			SOD	ePKP	15 03 08	
	KJN	ePKP 06 18 28	0.7	7.6	KJN	ePKP	15 03 12 0.9 9.2	
	KEV	ePKP 06 18 22			KEV	ePKP	15 03 05	
H: 06 00 00.2						H: 14 44 20.8		
6.6 S, 154.9 E, 85 km						16.2 S, 167.7 E, 65 km		
Solomon Islands						New Hebrides Islands		
17	NUR	iP 06 29 10.0	0.7	15.5				
	SOD	eP 06 29 24						
	KJN	eP 06 29 19	0.9	7.3				
	i	29.1 U	0.9	12.8	17	NUR	eP 16 46 40 0.7 6.4	
	KEV	eP 06 29 27				e	49 55	
17	NUR	iP 09 19 28.5 D	1.0	172.0	SOD	eP	16 47 41	
	i	36.0				i	44.0	
	e	52				e	52 04	
	eS	27 46			KJN	iP	16 47 05.1 0.8 5.5	
	eP'P'	48 36			KEV	eP	16 48 12 0.8 10.4	
SOD	iP	09 18 40.8 D			Moscow:			
	i	46.4			H: 16 42 26			
	eP'P'	48 53			45.0 N, 41.3 E			
KJN	iP	09 19 04.1 D	1.0	127.5	Caucasus			
	i	11.4			17	NUR	eP 18 16 36	
KEV	iP	09 18 22.8 D	1.0	61.2		e(S)	20 45	
	ePcP	19 31			KJN	eP	18 17 21 1.0 8.0	
	eS	25 48			H: 18 11 45.6			
H: 09 09 07.8						38.9 N, 20.9 E, 45 km		
57.7 N, 151.4 W, 20 km						Central Greece		
Alaska aftershock								
17	NUR	eP 09 21 16	0.8	17.3	18	NUR	eP 00 23 38	
	SOD	eP 09 20 29			KJN	eP	00 23 16	
17	NUR	eP 10 09 53	1.1	23.8	H: 00 13 24.4			
	e	58			59.6 N, 144.8 W, 33 km			
		cont.			Alaska aftershock			

April						April					
				T	A					T	A
18	NUR	iP	01 42 45.8	0.9	19.9	18	NUR	eP	07 56 16	0.8	8.6
	SOD	iP	01 41 59.0				SOD	eP	07 55 27		
	KJN	iP	01 42 22.1 D	1.0	12.5		KJN	eP	07 55 52	0.8	4.8
	KEV	iP	01 41 41.2	0.8	16.4		KEV	eP	07 55 09		
	H: 01 32 18.4						H: 07 45 47.6				
	56.4 N, 152.8 W, 33 km						56.5 N, 153.0 W, 33 km				
	Alaska aftershock						Alaska aftershock				
18	NUR	eP	03 17 07			18	NUR	iP	07 57 24.7	0.9	34.9
	SOD	iP	03 16 22.2 U				SOD	iP	07 56 36.8 U		
	KJN	eP	03 16 45	0.9	9.4		i		46.6		
	H: 03 06 43.5						KJN	iP	07 57 00.2 U	0.9	22.5
	56.7 N, 148.9 W, 33 km						e		10		
	Alaska aftershock						ePcP		49		
18	NUR	iP	05 38 26	0.8	12.9		KEV	iP	07 56 19.0	0.8	19.4
	i		29.8	0.8	45.8		H: 07 47 03.3				
	ePP		42 36				57.4 N, 149.8 W, 30 km				
	eS		47 08				Alaska aftershock				
	eSP		28			18	NUR	eP	08 09 45	0.7	6.4
	eScS		48 30				SOD	eP	08 09 22		
	eSS		51 30				KJN	iP	08 09 27.3	1.0	21.1
	eLQ	05 54					KEV	eP	08 09 15		
	SOD	eP	05 37 48				H: 07 58 26.9				
	i		51.0				29.0 N, 129.8 E, 33 km				
	KJN	eP	05 38 02	0.9	9.4		Ryukyu Islands				
	i		05.0 U	1.0	32.2	18	NUR	eP	15 25 07		
	KEV	eP	05 37 34	1.2	29.5		SOD	eP	15 24 22		
	i		39.0 U	0.9	43.3		KEV	eP	15 24 07		
	eS		45 48				H: 15 14 42.9				
	eScS		47 24				57.4 N, 152.3 W, 33 km				
	H: 05 27 44.6						Alaska aftershock				
	45.5 N, 151.1 E, 33 km										
	Kurile Islands										
18	NUR	iP	06 06 24.0	0.6	17.4	18	NUR	eP	16 31 11		
	SOD	eP	06 05 44				SOD	iP	16 30 48.4		
	KJN	eP	06 05 59	0.8	8.9		H: 16 19 06				
	KEV	eP	06 05 32	0.9	10.4		20.7 N, 141.8 E, 300 km				
	H: 05 55 40.5						Mariana Islands				
	45.4 N, 151.5 E, 33 km										
	Kurile Islands										
18	NUR	iP	07 20 54.0	0.8	7.1	18	NUR	eP	19 35 34		
	SOD	eP	07 20 06				SOD	eP	19 34 46		
	KJN	iP	07 20 30.0	0.7	14.6		KJN	eP	19 35 01	0.8	4.0
	H: 07 10 58.5						e		09		
	60.8 N, 145.2 W, 33 km						H: 19 25 23				
	Alaska aftershock						58.9 N, 148.7 W, 33 km				
							Alaska aftershock				
18	NUR	eP	07 26 45			18	NUR	iP	20 18 52.1 D	0.8	31.7
	SOD	eP	07 25 57				SOD	iP	20 18 05.7 D		
	KJN	eP	07 26 21	1.0	10.0		i		17.1		
	H: 07 16 36.4						KJN	iP	20 18 28.3 D	1.0	16.4
	59.1 N, 147.7 W, 33 km						cont.				
	Alaska aftershock										

April				T	A	April				T	A	
	KEV	iP	20 17 48.0	0.9	22.5		ePKS	35 51				
		eS	25 32				e	36 03				
	H: 20 08 19.7						H: 05 13 01.6					
	56.1 N, 153.7 W, 15 km						41.7 S, 83.9 W, 33 km					
	Alaska aftershock						Southern Chile					
18	NUR	eP	20 26 46	0.9	24.9	19	SOD	eP	06 43 32			
		eS	35 21				H: 06 34 14					
		eScS	36 38				60.6 N, 147.4 W, 15 km					
	SOD	eP	20 25 59				Alaska aftershock					
	KJN	eP	20 26 23									
		e	27 15			19	SOD	eP	10 39 24			
	KEV	iP	20 25 42.2	0.8	13.4		KJN	iP	10 39 59.1 D	0.8	19.8	
		eS	33 20									
		eScS	35 30			19	NUR	ePKP	14 31 33			
	H: 20 16 16.3						e	40		0.8	13.0	
	56.1 N, 153.7 W, 30 km						ePP	34 24				
	Alaska aftershock						ePKS	35 09				
							e	42 48				
18	NUR	eP	21 16 38	0.9	13.3		eSS	52 20				
							eSSS	57 08				
18	NUR	eP	21 57 11				SOD	iPKP	14 31 44.2			
	SOD	eP	21 58 34				KJN	ePKP	14 31 39			
	KJN	eP	21 58 03	1.2	16.8		ePKS	35 30				
18	KJN	eP	22 02 26	0.6	6.1		KEV	ePKP	14 31 51	1.0	20.7	
18	NUR	eP	23 48 12	0.5	4.0		i	32 07.0				
	SOD	iP	23 47 23.8				e(PP)	34 34				
	KJN	iP	23 47 47.8	0.7	5.3		ePKS	36 08				
	H: 23 38 03.4						eSPP	47 24				
	59.3 N, 147.5 W, 20 km						eSS	53 22				
	Alaska aftershock						eSSS	58 24				
							eLQ	15 09.2				
							eLR	15 11.2				
							H: 14 12 21.9					
							60.5 S, 58.3 W, 33 km					
							South Shetland Islands					
19	NUR	ePKP	04 15 25	1.0	8.0							
	KJN	ePKP	04 15 37	1.0	6.5	19	NUR	eP	19 01 11			
	H: 03 56 13.7						e	21		0.9	19.9	
	15.4 S, 173.7 W, 51 km						SOD	eP	19 00 22			
	Tonga Islands						i	28.1				
							KJN	eP	19 00 48	1.0	5.5	
							i	55.9	1.0	22.9		
19	NUR	ePKP	05 32 14	1.2	11.4		KEV	eP	19 00 06			
		e	23	1.2	28.5		H: 18 51 10.9					
		ePKS	35 49				60.2 N, 148.6 W, 33 km					
		eSS	53 06				Alaska aftershock					
		eSSS	57 06									
	SOD	ePKP	05 32 19			20	NUR	eP	00 43 17			
	KJN	ePKP	05 32 17				SOD	eP	00 42 28			
		e	26				KJN	eP	00 42 52			

cont.

April

T A

eScS 21 10
e 22 32
eSS 23 26
eP'P' 41 15
eLQ 05 26
SOD iP 05 10 36.0
i 38.2 D
i 59.0
KJN iP 05 11 00.3 0.8 14.5
i 02.5 U 1.0 111.0
eP'P' 41 25
KEV eP 05 10 19
i 33.5
eS 17 16
e(SS) 21 22
eLR 05 24
H: 05 01 35.7
61.5 N, 147.4 W, 40 km
Alaska aftershock

21 NUR eP 08 19 40
SOD eP 08 19 01
KEV eP 08 18 48 1.0 24.8

21 NUR eP 19 11 07
SOD eP 19 10 25
KJN iP 19 10 43.9 D 0.9 16.5
H: 19 00 53.7
53.0 N, 160.5 E, 33 km
Kamchatka

22 NUR iP 09 34 17.6 0.8 14.3

22 NUR eP 09 53 05 1.0 7.9
eS 58 07
KJN eP 09 53 08 1.0 10.0
e 42
KEV eP 09 53 29 1.0 14.0
eS 58 26
eLR 10 01
H: 09 46 54.2
56.1 N, 34.9 W, 33 km
North Atlantic Ocean

22 SOD eP 11 24 12
KJN eP 11 24 34 0.9 7.5
H: 11 14 43
57.8 N, 149.5 W, 33 km
Alaska aftershock

April

T A

22 NUR eP 15 08 03 1.0 15.8
SOD eP 15 08 08
KJN eP 15 08 00
e 08
H: 14 56 53.1
12.4 N, 95.7 E, 33 km
Andaman Islands

22 NUR eP 17 45 33
e 48
i 49 19.3
KJN eP 17 46 00

22 NUR ePKP 20 19 03
i 14.0 0.9 156.2
epPKP 47
ePP 21 16
eSKP 22 10
ePKS 33
SOD iPKP 20 19 03.0 U
KJN ePKP 20 19 04
i 06.0 0.9 102.0
KEV iPKP 20 19 00.3 D 0.8 87.6
H: 20 00 22.8
15.5 S, 167.5 E, 123 km
New Hebrides Islands

22 NUR iP 20 39 33.0 0.9 31.9
SOD iP 20 38 45.0 D
KJN iP 20 39 08.2 D 0.9 30.0
KEV eP 20 38 27
H: 20 29 20.3
58.6 N, 150.0 W, 33 km
Alaska aftershock

22 NUR iPKP 23 22 49.5 0.8 24.5
SOD ePKP 23 22 38
KJN iPKP 23 22 42.1 D 1.0 31.1
KEV ePKP 23 22 29
H: 23 04 13.8
13.2 S, 167.1 E, 218 km
New Hebrides Islands

23 NUR eP 02 02 39 0.8 5.8
eS 12 09
eSS 16 38
SOD eP 02 02 11
KJN iP 02 02 19.4
KEV eP 02 02 03
H: 01 51 10.6
32.1 N, 138.7 E, 33 km
South of Honshu, Japan

April							April						
					T	A					T	A	
23	NUR	eP	03 23 51		0.8	8.6	23	NUR	eP	20 57 47			
	SOD	eP	03 23 02					SOD	eP	20 57 34			
	KJN	iP	03 23 26.6 D		1.0	12.5		KJN	eP	20 57 29	1.0	11.6	
	H: 03 13 55.7							KEV	eP	20 57 34			
	60.9 N, 144.3 W, 35 km							H: 20 45 20.7					
	Alaska aftershock							14.0 N, 124.4 E, 45 km					
								Philippine Islands					
23	NUR	eP	03 46 52				23	NUR	eP	21 18 59	1.3	40.4	
		i	47 10.1		0.9	62.2			eS	27 18			
		ePP	51 13						e	31 52			
		ePPP	53 28						eLQ	21 35.5			
		eSKS	57 30					SOD	iP	21 18 14.2 D			
		eS	58 32					KJN	iP	21 18 32.5 U	0.7	29.6	
		e	59 36					KEV	iP	21 18 00.4 U	0.7	22.4	
		eSP	04 00 16					H: 21 08 42.0					
		ePKKP	02 41					52.7 N, 160.9 E, 33 km					
	SOD	eP	03 46 41					Kamchatka					
		ePP	50 49										
		eSKS	57 11				24	NUR	iP	00 52 51.2	1.1	72.9	
		iPKKP	04 02 49.8					SOD	iP	00 52 06.4 D			
	KJN	iP	03 46 42.4 U		1.8	183.6		KJN	iP	00 52 24.2 U	1.0	89.3	
		ePP	50 56					KEV	iP	00 51 51.1	1.0	37.3	
		eSKS	57 31					H: 00 42 33.9					
		ePKKP	04 02 47					52.7 N, 160.9 E, 33 km					
	KEV	iP	03 46 37.7		1.0	46.2		Kamchatka					
		i	55.8										
		ePP	50 49				24	KJN	eP	01 28 39			
		e	51 00										
		e	55 00				24	NUR	eP	03 54 50	0.8	7.2	
		eSKS	57 12					SOD	eP	03 55 54			
		eS	58 08					KJN	eP	03 55 27			
		eSP	59 40					H: 03 49 57.8					
		ePPS	04 00 46					38.0 N, 21.8 E, 92 km					
		eSS	05 14					Southern Greece					
	H: 03 32 50.3						24	NUR	eP	04 01 09	0.9	24.9	
	5.3 S, 134.0 E, 33 km								eS	09 20			
	Aru Islands region								eScS	10 58			
23	NUR	iP	14 29 02.6		0.9	16.6			eSS	13 28			
		eS	33 12					SOD	eP	04 00 21			
		eLQ	14 34.1					KJN	iP	04 00 45.3	0.9	17.6	
	SOD	eP	14 29 55					KEV	eP	04 00 07	1.0	22.8	
	H: 14 23 43.2								eS	07 16			
	36.9 N, 37.9 E, 57 km							H: 03 51 05.0					
	Turkey							59.5 N, 144.5 W, 33 km					
								Alaska aftershock					
23	NUR	iP	15 06 53.6 D		1.1	96.4	24	NUR	eP	04 33 34	0.9	11.6	
		eS	15 22					SOD	iP	04 32 46.4 U			
	SOD	iP	15 06 06.2 D					KJN	eP	04 33 09	1.0	12.6	
	KEV	iP	15 05 48.8		1.1	66.4							
	H: 14 56 30.9												
	57.3 N, 151.9 W, 25 km												
	Alaska aftershock												

cont.

April				April							
			T	A			T	A			
	KEV	eP	09 52 27	1.0	22.4	26	NUR	ePKP	15 10 29		
			H: 09 43 30.7					e	34		
			59.9 N, 144.9 W, 30 km					iSKP	13 22.0		
			Alaska aftershock				SOD	ePKP	15 10 22		
25	NUR	eP	12 49 36	1.0	19.8			e	12 43		
	SOD	iP	12 50 36.2					iSKP	13 00.9		
	KJN	iP	12 50 06.5				KJN	ePKP	15 10 14		
	KEV	eP	12 50 57	1.1	34.0			e	26		
			H: 12 44 09.6					e	12 18		
			35.2 N, 27.6 E, 27 km					iSKP	13 09		
			Dodecanese Islands						H: 14 52 07.6		
									20.6 S, 178.0 W, 490 km		
									Fiji Islands		
25	NUR	eP	16 20 04	1.2	14.1	26	NUR	ePKP	22 53 48	1.2	20.0
	SOD	iP	16 19 15.4				SOD	ePKP	22 54 00		
	KJN	eP	16 19 39	1.3	18.5		KJN	ePKP	22 53 59	1.0	9.2
			H: 16 10 01.3						H: 22 34 48.6		
			59.9 N, 146.1 W, 33 km						60.4 S, 24.6 W, 33 km		
			Alaska aftershock						Sandwich Islands		
25	NUR	iP	18 49 29.9	1.1	28.2	27	NUR	eP	01 49 28	0.9	20.2
		i	49.9	1.2	104.3			eS	59 42		
		ePPS	59 48				SOD	eP	01 49 33		
		e(SS)	19 04 20					i	35.0		
	SOD	iP	18 49 14.4 U				KJN	eP	01 49 25	0.9	7.7
		i	25.1					i	26.8	0.9	24.9
	KJN	iP	18 49 17.1 U	0.9	29.2		KEV	iP	01 49 38.1	1.0	42.8
		i	29.2					e	47		
	KEV	iP	18 49 09.1	1.0	26.5				H: 01 37 12.1		
		i	21.6	1.0	49.0				0.3 N, 98.1 E, 33 km		
			H: 18 37 58.1						Sumatra		
			24.4 N, 125.3 E, 33 km			27	NUR	eP	04 04 10		
			Ryukyu Islands				SOD	eP	04 03 22		
							KJN	eP	04 03 45		
									H: 03 53 47.1		
26	NUR	eP	01 37 23						57.4 N, 152.4 W, 20 km		
	SOD	eP	01 38 18						Alaska aftershock		
			H: 01 31 55			27	NUR	ePKP	07 04 31		
			34.8 N, 26.1 E, 70 km					e	05 38		
			Crete					eSKKS	14 56		
								ePSKS	18 26		
26	NUR	iP	14 12 21.2 U	0.7	27.1			ePPS	21 20		
		e	34					eSS	27 26		
	SOD	iP	14 12 23.1					eSSS	33 00		
	KJN	iP	14 12 17.2 U	1.2	94.8		SOD	ePKP	07 04 28		
	KEV	iP	14 12 24.7	0.9	22.5			e	44		
			H: 13 59 27.7				KJN	ePKP	07 04 24		
			5.8 S, 105.0 E, 90 km					e	35		
			Southern Sumatra						cont.		

April						April				
			T	A				T	A	
	KEV	ePKP	07 04 28			KEV	eP	12 30 26		
		e	47				H:	12 21 25.6		
		e	05 54					59.0 N, 138.7 W, 33 km		
		eSS	27 12					Southeastern Alaska		
		e	28 08							
		H:	06 44 25.1							
			60.1 S, 151.0 E, 33 km							
			Balleny Islands							
27	KJN	eP	08 24 02	1.0	9.5	28	KJN	eP	13 02 03	0.6 8.0
27	SOD	iP	10 07 10.4			28	NUR	eP	13 39 27	0.9 8.3
27	KJN	eP	12 19 23				KJN	eP	13 39 48	1.0 6.3
		H:	12 07 53			28	NUR	eP	13 44 30	
			4.0 N, 31.1 W, 33 km					i	38.0	1.0 17.8
			Mid-Atlantic Ocean				SOD	eP	13 43 42	
27	NUR	eP	19 19 38					i	49.8	
	SOD	eP	19 18 49				KJN	eP	13 44 06	1.2 9.7
	KJN	eP	19 19 13					i	13.5	
	KEV	eP	19 18 31				KEV	eP	13 43 32	
		H:	19 09 39.0					H:	13 34 10.4	
			60.5 N, 146.5 W, 33 km						57.6 N, 150.0 W, 33 km	
			Alaska aftershock						Alaska aftershock	
27	SOD	eP	19 43 08			28	NUR	iP	18 34 05.2	
	KJN	iP	19 43 06.8	0.5	8.0		SOD	eP	18 34 19	
27	SOD	eP	20 34 20				KJN	eP	18 34 04	
	KJN	eP	20 34 44	0.8	4.6			H:	18 27 03	
		H:	20 25 04						37.1 N, 71.7 E, 146 km	
			59.8 N, 148.4 W, 33 km						Tadzhik S.S.R.	
			Alaska aftershock			28	SOD	eP	22 19 40	
28	NUR	eP	00 00 04	0.6	5.0	28	NUR	eP	22 56 30	
28	NUR	eP	02 44 20	0.8	17.2		SOD	eP	22 57 18	
	KJN	eP	02 44 09				KJN	eP	22 56 51	
28	KJN	eP	06 06 41			28	NUR	eP	23 06 45	0.9 13.3
28	SOD	eP	08 47 30				SOD	eP	23 05 58	
		H:	08 38 12				KJN	eP	23 06 21	1.0 12.2
			59.6 N, 149.9 W, 33 km					H:	22 56 18.8	
			Alaska aftershock						56.7 N, 152.0 W, 33 km	
28	NUR	eP	12 31 32	1.0	9.9				Alaska aftershock	
	SOD	eP	12 30 46			29	NUR	eP	02 22 40	0.7 5.1
	KJN	eP	12 31 07	0.9	4.4			eSS	36 17	
			cont.				SOD	eP	02 22 15	
							KJN	iP	02 22 21.7	1.0 12.2
								i	28.4	
							KEV	eP	02 22 08	0.9 10.5
								i	15.3	
								H:	02 11 36.6	
									32.4 N, 129.0 E, 33 km	
									Kyushu, Japan	

April						April			
			T	A				T	A
29	SOD eP	04 02 03			30	NUR eP	04 00 06		
	H:	03 52 43				SOD eP	03 59 15		
		60.0 N, 147.4 W, 33 km				KJN eP	03 59 42		
		Alaska aftershock				KEV e	03 58 40		
29	NUR iP	04 25 51.4	1.2	54.2		H:	03 49 57.6		
	eS	29 38					58.9 N, 139.0 W, 20 km		
	ePcP	45					Southeastern Alaska		
	eLQ	04 30.5			30	NUR eP	04 11 32		
	eLR	04 31.0				SOD eP	04 10 46		
SOD	eP	04 26 57				KJN eP	04 11 05	0.9	6.9
KJN	iP	04 26 28.0	1.1	30.5		H:	04 01 26.1		
	e(S)	31 00					59.0 N, 137.8 W, 33 km		
KEV	iP	04 27 19.8	1.0	29.0			Southeastern Alaska		
	eS	32 22			30	SOD eP	04 23 33		
	eLQ	04 33.5				KJN iP	04 23 54.0	0.9	12.9
	eLR	04 35.2			30	NUR iP	05 42 16.8	0.8	13.0
	H:	04 21 06.7				SOD iP	05 41 29.2 D		
		39.3 N, 23.7 E, 33 km				KJN iP	05 41 52.2 D	0.9	10.3
		Aegean Sea				KEV iP	05 41 11.7 D	0.9	22.8
29	SOD eP	10 53 03				H:	05 31 51.1		
	KJN eP	10 53 15	0.8	7.3			56.8 N, 152.7 W, 33 km		
29	NUR iP	17 04 48.3	1.0	58.0			Alaska aftershock		
	eS	08 46			30	SOD ePKP	08 25 21		
	eLQ	17 10				KJN ePKP	08 25 17		
SOD	eP	17 05 55				H:	08 06 23		
KJN	iP	17 05 25.3	0.9	44.7			56.2 S, 27.6 W, 88 km		
	i	35.3					Sandwich Islands		
KEV	eP	17 06 29			30	NUR eP	12 00 40	1.2	16.9
	H:	17 00 02.9				SOD iP	11 59 50.8 U		
		39.2 N, 23.7 E, 32 km				KJN iP	12 00 15.0 U	1.5	15.8
		Aegean Sea				KEV eP	11 59 30	1.0	23.1
29	NUR ePKP	17 56 35	0.8	8.6		H:	11 50 47.4		
	SOD ePKP	17 56 47					61.3 N, 147.0 W, 33 km		
KJN	iPKP	17 56 42.8	0.8	12.6			Alaska aftershock		
	i	52.7			30	NUR eP	15 05 44	1.2	28.2
	H:	17 37 43.1				SOD iP	15 05 30.7 U		
		58.2 S, 15.7 W, 33 km				KJN iP	15 05 31.6 U	0.9	14.1
		Sandwich Islands				H:	14 54 03.3		
29	NUR eP	19 16 25					20.3 N, 121.1 E, 50 km		
	SOD eP	19 15 32					Philippine Islands		
30	SOD eP	00 35 36			30	NUR eP	16 18 01		
	H:	00 26 00				iPKP	21 59.5	0.6	16.1
		56.9 N, 152.2 W, 33 km				ePP	22 38		
		Alaska aftershock				ePPP	24 48		
							cont.		

April

			T	A
eSKS	28	40		
e	29	06		
ePS	31	56		
ePPS	33	46		
e	34	50		
eSS	38	06		
eSSS	42	20		
eLQ	16	50.4		
eLR	16	56.5		
SOD eP	16	17 35		
KJN iP	16	17 48.7 U	0.8	15.9
ePKP	21	53		
KEV eP	16	17 36		
ePP	22	06		
ePPP	24	20		
eSKS	28	16		
eSKKS		42		
ePS	31	10		
ePPS	32	26		
eSS	37	13		
H: 16 03 31.4				
4.6 S, 153.2 E, 78 km				
New Ireland				

30 SOD eP 16 34 55
 KJN eP 16 35 19
 H: 16 25 31
 59.0 N, 148.6 W, 33 km
 Alaska aftershock

April

			T	A
30 NUR eP	17	36 32		
i		43.0 U		
SOD eP	17	35 43		
e		50		
KJN eP	17	36 08	0.8	4.5
i		16.4 U		
H: 17 26 30				
60.1 N, 142.2 W, 33 km				
Alaska aftershock				
30 NUR eP	18	16 18		
SOD eP	18	17 23		
KJN eP	18	16 54		
H: 18 11 43				
40.6 N, 24.4 E, 120 km				
Aegean Sea				
30 SOD iP	19	18 55.8 U		
KJN iP	19	18 56.3 U	0.7	10.8
H: 19 06 48.7				
12.3 N, 124.4 E, 121 km				
Philippine Islands				

February 1, 1965

M. T. Porkka
Aili Huovila

INKS MAY 1964

May	T	A	May	T	A
1 NUR eP 00 01 42 SOD eP 00 00 54 KJN eP 00 01 17 H: 23 51 28 58.0 N, 150.9 W, 33 km Alaska aftershock			1 NUR eP 07 18 34 SOD iP 07 17 46.0 KJN eP 07 18 10 H: 07 08 12 57.5 N, 150.6 W, 20 km Alaska aftershock	0.9	18.0
1 NUR eP 00 27 49 i 57.3 SOD eP 00 27 02 i 09.3 D KJN iP 00 27 24.2 1.1 19.4 i 32.5 KEV eP 00 26 46 H: 00 17 22 56.6 N, 151.5 W, 30 km Alaska aftershock			1 NUR eP 07 53 51 0.9 18.0 KJN eP 07 54 09 1.0 16.8 e 36 1 SOD eP 07 54 01 H: 07 44 44.9 59.7 N, 147.1 W, 35 km Alaska aftershock		
1 SOD eP 01 21 55 H: 01 10 54 14.1 N, 93.9 E, 33 km Andaman Islands			1 NUR eP 11 33 55 0.7 8.8 KJN eP 11 33 35 H: 11 23 09.1 44.1 N, 148.6 E, 35 km Kurile Islands		
1 NUR iP 03 23 24.0 1.0 39.2 e 35 SOD eP 03 22 37 e 47 KJN iP 03 23 00.8 D 1.0 26.3 KEV eP 03 22 18 1.0 10.5 H: 03 13 03.5 57.4 N, 150.0 W, 30 km Alaska aftershock			1 SOD eP 14 49 09 i 13.1 D KJN eP 14 49 32 KEV eP 14 48 55 H: 14 39 58 60.4 N, 145.1 W, 30 km Alaska aftershock		
1 NUR eP 03 50 34 SOD eP 03 49 52 KJN eP 03 50 17 H: 03 40 36.2 59.7 N, 144.1 W, 20 km Alaska aftershock			1 SOD e(S) 21 58 51 KJN e(S) 22 00 09 KEV e(P) 21 56 13 e(S) 57 52		
1 NUR iP 06 11 55.6 U 1.0 54.9 i 12 00.2 D SOD iP 06 11 07.0 KJN iP 06 11 30.8 U 1.0 66.2 i 35.0 iPcP 12 29.6 KEV iP 06 10 48.8 U 0.8 134.4 i 54.0 D ePP 12 40 eS 17 46 H: 06 01 55.4 60.5 N, 145.6 W, 20 km Alaska aftershock			2 NUR iPKP 00 07 14.4 0.7 10.1 KJN ePKP 00 07 04 H: 23 47 35.3 32.3 S, 179.5 W, 33 km Kermadec Islands 2 NUR eP 04 54 03 e 37 KJN eP 04 53 36 e 54 17 H: 04 43 50 58.6 N, 151.1 W, 33 km Alaska aftershock		

May		T	A	May		T	A
2	NUR iP 05 28 29.0 D	0.7	25.2	2	NUR eP 17 19 03	0.9	8.3
	SOD iP 05 28 32.0 D				SOD eP 17 18 14		
	KJN iP 05 28 25.7 U	1.0	28.6		KJN eP 17 18 38	1.0	9.2
	e 36				KEV eP 17 18 01		
	KEV iP 05 28 34.2	1.0	25.4		H: 17 08 57.6		
	H: 05 15 51.1				59.7 N, 147.0 W, 30 km		
	4.0 S, 102.8 E, 106 km				Alaska aftershock		
	Southern Sumatra						
2	NUR iP 16 21 42.0	1.1	96.4	2	NUR e 21 15 16	0.9	8.3
	ePP 24 00				KJN eP 21 14 56	0.8	12.6
	ePPP 25 38				e 15 11		
	eS 30 16				H: 21 01 44.8		
	ePPS 55				8.6 S, 110.4 E, 102 km		
	eScS 31 33				South coast of Java		
	eSS 34 50			2	SOD eP 22 58 38		
	eP'P' 50 20				KJN eP 22 58 37		
	eLR 16 42				H: 22 46 24		
SOD	eP 16 21 02				1.9 N, 123.0 E, 487 km		
	e 05				Celebes Sea		
	iPcP 51.1			2	NUR eP 23 44 38	0.7	3.8
	eS 29 10				SOD iP 23 44 32.0 U		
	eP'P' 50 37				KJN iP 23 44 28.0	0.8	8.2
KJN	eP 16 21 17	1.4	48.5		KEV iP 23 44 32.4	0.7	24.1
	i 21.0	1.2	101.1		H: 23 34 28		
	eScS 31 08				26.3 N, 100.7 E, 33 km		
	eP'P' 50 15				Yunnan, China		
KEV	iP 16 20 51.6	1.1	80.0	3	SOD eP 00 03 57		
	ePcP 21 43						
	ePP 23 04			3	NUR iP 02 05 22.5 D	0.6	13.6
	ePPP 24 40				SOD iP 02 04 49.4 D		
	e 28 16				KJN iP 02 05 00.7 D	0.7	25.5
	eS 45				ePP 07 19		
	ePS 29 18				KEV eP 02 04 39	0.8	10.6
	eLQ 16 36				H: 01 54 33.5		
	eLR 16 38.2				40.3 N, 141.9 E, 59 km		
	H: 16 11 00.2				Honshu, Japan		
	45.5 N, 150.3 E, 35 km			3	KJN ePKP 05 01 18		
	Kurile Islands				H: 04 43 12.4		
2	NUR eP 16 30 54				17.9 S, 178.3 W, 569 km		
	SOD eP 16 30 57				Fiji Islands		
	KJN eP 16 30 52			3	NUR iP 07 43 24.0 U	0.7	41.9
2	NUR ePKP 16 52 37	0.8	10.0		i 33.2		
	SOD ePKP 16 52 34				SOD iP 07 42 36.8 U		
	KJN ePKP 16 52 32	0.9	3.4		i 47.0		
	H: 16 33 47.9				KJN iP 07 42 59.6 U	1.0	32.6
	27.3 S, 178.9 W, 369 km				i 43 10.7		
	Kermadec Islands				cont.		

May		T	A	May		T	A
	KEV iP 07 42 19.0 U H: 07 32 56.3 56.5 N, 154.8 W, 30 km Alaska aftershock	0.8	59.6	4	NUR eP 16 47 51	1.0	11.9
3	NUR eP 08 09 01 SOD eP 08 08 13 KJN eP 08 08 36 H: 07 58 45 58.1 N, 151.6 W, 33 km Alaska aftershock	0.8	7.2	4	NUR ePKP 17 24 05 eSP 34 56 e 39 24 eSS 41 30 eSSS 45 34 eLQ 17 52.5		
		0.8	4.4	SOD	ePKP 17 24 18 e 26 KJN ePKP 17 24 13 H: 17 05 20 55.8 S, 4.4 W, 33 km Bouvet Island		
3	NUR eP 15 39 39 SOD eP 15 38 54 KJN eP 15 39 14 KEV eP 15 38 36 H: 15 28 50.0 52.2 N, 172.1 W, 30 km Andreanof Islands	0.8	3.7	5	SOD eP 00 31 14 H: 00 21 57 60.7 N, 147.6 W, 33 km Alaska aftershock		
3	NUR e(P) 21 42 12 SOD eP 21 41 23 KJN eP 21 41 48 H: 21 31 53 59.0 N, 148.5 W, 25 km Alaska aftershock	1.1	14.3	5	NUR eP 02 14 38 SOD eP 02 13 51 e 58 KJN eP 02 14 14 H: 02 04 18 57.4 N, 149.5 W, 33 km Alaska aftershock	1.1	14.1
3	KJN eP 21 48 58 H: 21 39 30 61.0 N, 145.8 W, 33 km Alaska aftershock			5	NUR eP 02 42 44 SOD eP 02 41 55 H: 02 32 42 60.4 N, 147.1 W, 15 km Alaska aftershock		
3	KJN eP 23 16 17 H: 23 03 24 0.1 N, 123.4 E, 160 km Northern Celebes			5	NUR eP 04 15 13 SOD iP 04 14 24.8 KJN eP 04 14 49 H: 04 05 08.3 59.7 N, 148.9 W, 33 km Alaska aftershock	1.0	11.9
4	NUR eP 02 22 04	0.9	5.0			1.1	9.0
4	NUR iP 12 15 02.4 U i 15.9 SOD iP 12 14 14.2 U KJN iP 12 14 37.6 U i 50.6 D KEV iP 12 13 56.2 U i 14 09.8 H: 12 04 46.1 58.2 N, 152.3 W, 30 km Alaska aftershock	0.8	97.6	5	NUR iP 08 12 29.7 eS 21 06 eScS 22 24 eSS 25 28 eSSS 18 12 eLQ 08 30 eLR 08 33	0.9	10.0
		1.0	86.7				
		0.8	49.8				

cont.

May				T	A	May				T	A	
6	NUR	eP	17 22 01	0.9	11.8	7	NUR	iP	05 56	06.0 D	1.8	913.9
		eS	31 10					i		16.8 D	1.0	194.0
	SOD	iP	17 21 29.1					ePP	58 30			
	KJN	iP	17 21 39.5	0.8	25.5			ePPP	06 00 20			
	KEV	eP	17 21 19					eS	04 44			
	H: 17 10 53.7							eScS	06 12			
	38.0 N, 142.4 E, 33 km							eSS	09 03			
	Honshu, Japan							eLQ	06 12.2			
6	NUR	iP	20 51 21.1 U	1.0	122.0	SOD	iP	05 56	47.5 D			
		i	35.2	0.8	125.3		i		58.3 D			
	SOD	eP	20 51 03			KJN	eP	05 56	26			
	KJN	iP	20 51 09.9 U	1.1	81.8		eS	06 05	30			
		i	23.8				e	06 11				
6	NUR	iP	20 55 56.9 D	0.6	28.8		eP'P'	24 47				
	SOD	eP	20 55 17			KEV	iP	05 57	02.0 D	1.5	436.1	
	KJN	iP	20 55 32.6 D	0.8	13.1		i		12.6 D			
	KEV	eP	20 55 04	0.6	9.0		ePP	59 42				
	H: 20 45 14.0						ePPP	06 01 40				
	45.5 N, 151.6 E, 40 km						eS	06 31				
	Kurile Islands						eLQ	06 16				
6	NUR	eP	21 04 28	0.8	8.6		eLR	06 19				
7	NUR	eP	00 14 37				H: 05 45 29.5					
7	SOD	eP	00 25 01				4.0 S, 34.9 E, 33 km					
	KJN	eP	00 25 29	0.7	4.4		Tanganyika					
	H: 00 15 48.9					7	NUR	iP	08 08	59.0 U	1.0	174.0
	60.1 N, 147.4 W, 33 km						e	11 44				
	Alaska aftershock						ePPP	13 18				
7	NUR	ePKP	00 53 34				eS	17 48				
		i	40.7				eP'P'	37 39				
		ePKS	57 12			SOD	iP	08 08	26.3 U			
	SOD	ePKP	00 53 27				ePP	10 42				
		eSKP	56 21				eS	16 44				
	KJN	ePKP	00 53 33			KJN	eP	08 08	37			
		eSKP	56 33				eS	17 06				
		ePKS	57			KEV	iP	08 08	16.2 U	1.1	125.0	
	KEV	iPKP	00 53 23.7	1.0	25.2		ePP	10 32				
	H: 00 34 57.2						ePPP	12 02				
	18.2 S, 176.6 W, 300 km						eS	16 24				
	Fiji Islands						eSS	20 18				
7	NUR	eP	04 13 20	0.7	2.6		eP'P'	37 53				
	SOD	eP	04 12 34				H: 07 58 14.3					
	KJN	eP	04 12 54	0.6	8.0		40.4 N, 139.0 E, 33 km					
	H: 04 02 28.7						Honshu, Japan					
	51.6 N, 177.3 W, 25 km					7	NUR	eP	08 17	56	0.6	18.8
	Andreanof Islands						SOD	eP	08 17	20		
							KEV	iP	08 17	13.2	1.0	21.0
							H: 08 07 04.3					
							40.2 N, 139.4 E, 15 km					
							Honshu, Japan					

May						May					
				T	A						
						T	A				
7	NUR	eP	08 36 56	0.8	16.7	7	SOD	eP	12 22 27	0.7	9.4
	SOD	eP	08 36 24			KJN	iP	12 22 32.3			
	KJN	eP	08 36 34			KEV	eP	12 22 19			
	KEV	eP	08 36 15			7	NUR	eP	14 40 52	0.8	13.6
	H: 08 26 10.7						SOD	eP	14 40 19		
	40.4 N, 139.3 E, 33 km Honshu, Japan				KJN	iP	14 40 30.1				
7	SOD	eP	09 01 14			7	NUR	iP	17 48 49.1	0.4	5.0
	H: 08 51 01						SOD	eP	17 49 06		
	40.5 N, 138.4 E, 33 km Sea of Japan						KJN	eP	17 48 50	0.8	6.1
							KEV	eP	17 49 14	0.7	8.0
							H: 17 41 39.8				
7	SOD	eP	09 37 43				36.0 N, 70.7 E, 108 km Hindu Kush				
	H: 09 27 27					7	NUR	eP	19 22 39		
	40.3 N, 137.6 E, 33 km Sea of Japan						SOD	iP	19 21 50.2		
7	SOD	eP	09 57 46				KJN	eP	19 22 15	1.1	11.6
	KJN	eP	09 57 56				KEV	eP	19 21 32	1.0	18.9
	H: 09 47 30						H: 19 12 38				
	40.5 N, 138.2 E, 25 km Honshu, Japan						60.4 N, 144.8 W, 15 km Alaska aftershock				
7	NUR	iP	11 21 53.0 D	0.8	169.9	7	NUR	iP	20 23 34.3 U	0.9	63.8
		iS	30 45.0				i		38.6 U	1.2	230.9
	SOD	iP	11 21 27.4 D				ePP		26 00		
		i	45.3				ePPP		27 52		
		epP	23 13				eS		32 22		
		esP	24 10				eSS		36 38		
		eS	29 56				eP'P'		52 10		
	KJN	iP	11 21 34.4 D				eLQ	20 41			
		e	23 01				eLR	20 44			
		epP	17				SOD	iP	20 23 01.4 U		
		eS	30 10				ePP		25 15		
		eScS	44				eS		31 22		
	KEV	iP	11 21 19.8	1.0	241.5		eP'P'		52 21		
		iS	29 41.1				KJN	iP	20 23 12.3 U		
	H: 11 11 04.9						ePP		25 29		
	30.6 N, 137.7 E, 469 km Honshu, Japan						ePPP		27 13		
							ePcS		49		
							eS		31 42		
7	NUR	eP	11 30 39	1.0	12.0		eScS		33 03		
							eP'P'		51 58		
7	NUR	iP	12 18 48.7	0.8	15.8		e		52 15		
	SOD	iP	12 18 15.8 D				KEV	iP	20 22 51.2 U	1.4	133.3
	KJN	iP	12 18 26.0 D	0.8	41.6		i		59.0		
	KEV	eP	12 18 05	0.7	8.0		ePP		25 06		
	H: 12 08 03.6						ePPP		26 22		
	40.5 N, 138.9 E, 33 km Honshu, Japan						eS		31 02		

cont.

May		T	A	May		T	A
	eScS	32	38	8	NUR eP	06	34 17
	eSS	34	46		H:	06	22 14
	eLQ	20	38.8			9.7	N, 125.0 E, 379 km
	eLR	20	40.7				Philippine Islands
	H:	20	12 49.3	8	NUR eP	09	33 41
		40.5	N, 139.0 E, 33 km		SOD eP	09	32 52
			Honshu, Japan		H:	09	23 33.1
7	NUR iPKP	23	32 05.0 U	0.8	50.4	59.4	N, 145.4 W, 20 km
	i		08.0				Alaska aftershock
	SOD ePKP	23	31 54	8	NUR eP	10	41 22
	KJN ePKP	23	31 53		SOD eP	10	40 55
	H:	23	12 21.3		KJN eP	10	41 05
		32.9	S, 178.3 W, 33 km (R)		e		16
			Kermadec Islands		KEV eP	10	40 45
8	SOD eP	00	00 22	8	NUR eP	10	49 51
	KJN eP	00	00 17		KJN eP	10	49 40
	KEV eP	00	00 19				
8	NUR eP	03	07 08	8	NUR eP	10	55 33
8	NUR iP	03	11 12.8	0.8	13.0	8	NUR iP
	SOD eP	03	11 48			16	32 17.1 U
8	NUR iPKP	03	55 42.2 U	1.0	50.0	i	23.5
	i		55.0			e(PP)	34 28
	H:	03	35 59.9			eS	40 46
		32.7	S, 178.3 W, 40 km			e	41 28
			Kermadec Islands			eScS	42 08
8	NUR ePKP	04	17 30	1.1	38.1	e	43 28
	H:	03	57 50.1			eSS	44 50
		33.1	S, 178.3 W, 47 km			eLQ	16 47.7
			Kermadec Islands			eLR	16 50.7
8	NUR iPKP	04	30 14.0	1.1	23.8	SOD iP	16 31 29.8 U
	H:	04	10 31.9			KJN iP	16 31 53.0 U
		32.8	S, 178.4 W, 33 km (R)			i	32 00.4
			Kermadec Islands			eS	40 01
8	NUR iP	05	29 33.3	1.1	26.2	KEV eP	16 31 12 U
8	NUR eP	06	06 24			ePP	33 08
	SOD eP	06	05 35			eS	38 48
	H:	05	56 14			e	39 30
		59.2	N, 153.9 W, 25 km			eScS	41 02
			Alaska aftershock			eSS	42 44
8	NUR eP	06	16 13			eLQ	16 45.5
	H:	06	05 47			eLR	16 47.5
		56.7	N, 154.2 W, 33 km			H:	16 21 49.8
			Alaska aftershock				56.7 N, 154.0 W, 25 km
8	NUR iP	21	44 35.6	1.1	61.9		Alaska aftershock
	i		39.8 U				
	eS		52 34				

cont.

May				May								
		T	A		T	A						
	eSS	56	49				e	24 00 40				
	eLQ	21	59.1				eSS	02 42				
	eLR	22	01.5				e	05 38				
SOD	iP	21	43 46.7 D				eLR	24 07.8				
	i		50.3				H:	23 40 44.1				
KJN	iP	21	44 11.0	1.2				52.2 N, 169.5 W, 20 km				
	i		15.0 U					Andreanof Islands				
KEV	eP	21	43 29	1.0								
	e		33				9	NUR iP 00 04 13.0				
	eS		50 38					SOD iP 00 03 39.4 U				
	eLR	21	57.5					KJN iP 00 03 50.7 U				
H:		21	34 40.6					KEV iP 00 03 29.1				
			60.8 N, 143.6 W, 35 km					H:	23 53 21.1			
			Alaska aftershock						40.4 N, 142.2 E, 47 km			
									Honshu, Japan			
8	SOD eP	21	58 56				9	NUR iP 00 26 19.0 D	0.7	16.8		
	KJN eP	21	58 55					SOD eP 00 25 33				
	H:	21	45 47					KJN iP 00 25 54.0	0.6	11.7		
			1.7 N, 126.5 E, 33 km					KEV eP 00 25 16				
			Molucca Passage					H:	00 15 26			
8	NUR iP	22	03 09.2 U	1.2					52.0 N, 169.8 W, 33 km (R)			
	i		04 34.0						Fox Islands			
	eS		06 02					9	SOD e(P) 00 33 11			
	e		51						KJN eP 00 33 11			
SOD	iP	22	02 14.1 U						H:	00 22 49.0		
	i		22.8							40.4 N, 138.8 E, 33 km		
	eS		04 25							Sea of Japan		
KJN	iP	22	02 46.2	1.0				9	NUR iP 02 13 21.8 D	1.0	240.0	
	iS		05 19.1						i		34.0 D	
KEV	eP	22	02 02						ePS	22 33		
	eS		04 07						eScS	23 34		
H:		21	59 21.9						eSS	27 08		
			71.1 N, 6.2 W, 25 km						SOD iP	02 12 36.0 D		
			Jan Mayen						ePcP	13 24		
8	NUR iP	23	51 36.6	1.0					KJN iP	02 12 56.2 D	0.9	95.8
	i		50.2 U	1.1					KEV iP	02 12 19.1 D	1.0	107.1
	ePP		54 03						eS	20 24		
	ePPP		56 00						eSS	24 34		
	eS	24	00 32						eLQ	02 26.7		
	ePPS		01 12						eLR	02 29.7		
	eSS		05 08						H:	02 02 28.8		
	eLQ	24	09.5							52.2 N, 169.6 W, 25 km		
	eLR	24	12							Andreanof Islands		
SOD	iP	23	50 51.8					9	KJN eP	07 49 57		
KJN	iP	23	51 11.0	0.7					H:	07 39 35.9		
	i		14.8	1.1						44.5 N, 150.4 E, 33 km		
KEV	iP	23	50 37.0 D	1.1						Kurile Islands		
	ePPP		54 16									
	eS		58 34									

cont.

May		T	A	May		T	A
9	NUR eP 07 54 01 SOD eP 07 54 42 KJN iP 07 54 16.7 D KEV eP 07 54 58 H: 07 47 02.4 29.6 N, 52.5 E, 34 km Southern Iran	0.8	15.1	10	NUR iP 05 51 31.0 i 41.8 eS 06 01 10 e 28 eSS 06 03 KJN iP 05 51 12.1 D KEV iP 05 50 55.7 i 51 10.0 H: 05 39 42.6 29.0 N, 141.5 E, 62 km Bonin Islands	1.0	38.0
9	SOD eP 14 00 36 KJN eP 14 00 36 H: 13 48 05.3 8.1 N, 123.2 E, 60 km Philippine Islands			10	NUR iP 06 40 06.3 D KJN iP 06 39 41.4 D KEV eP 06 39 01 H: 06 29 15 52.2 N, 169.5 W, 35 km Andreanof Islands	0.9	38.6
9	NUR eP 15 20 57 SOD iP 15 20 24.0 U KJN eP 15 20 35 KEV eP 15 20 13 H: 15 10 12.1 40.7 N, 139.0 E, 25 km Sea of Japan	0.9	13.4			0.8	22.7
9	NUR iP 18 35 15.2 SOD ePKP 18 35 04 KJN iP 18 35 07.2 KEV ePKP 18 35 01 H: 18 16 17.5 13.7 S, 166.6 E, 41 km New Hebrides Islands	0.8	41.8	10	NUR ePKP 06 46 14 KJN iP 06 42 02.8 U ePKP 46 08 H: 06 27 45.6 4.6 S, 153.2 E, 77 km New Ireland	0.7	10.3
9	NUR eP 20 03 16 SOD eP 20 02 30 KJN iP 20 02 51.1 KEV eP 20 02 14 H: 19 52 14.4 50.7 N, 170.3 W, 33 km Andreanof Islands	0.8	10.1	10	SOD eP 08 04 08 KJN eP 08 03 53 H: 07 50 44 1.6 N, 126.3 E, 33 km (R) Molucca Passage	0.8	12.9
9	NUR eP 20 50 31 KJN eP 20 50 20	0.9	10.5	10	NUR eP 08 22 53 KJN eP 08 22 28 H: 08 12 34.5 47.0 N, 142.1 E, 18 km Sakhalin Island	0.7	5.8
9	NUR eP 21 16 04 SOD eP 21 15 15 KJN eP 21 15 40 KEV eP 21 15 04 H: 21 06 12.2 61.7 N, 152.0 W, 25 km Alaska aftershock			10	NUR eP 10 56 37 e 44 SOD eP 10 56 05 i 11.6 KJN iP 10 56 14.9 D i 22.1 KEV eP 10 55 54 H: 10 45 52.3 40.5 N, 139.0 E, 33 km Honshu, Japan	0.7	3.9
9	KJN ePKP 21 26 17 H: 21 07 41.6 9.2 S, 156.7 E, 26 km Solomon Islands			10	NUR eP 11 50 03 SOD eP 11 49 17	0.8	11.5

cont.

May	T	A	May	T	A
KJN eP 11 49 37 H: 11 39 13 52.3 N, 169.5 W, 40 km Andreanof Islands			11 NUR eP 06 15 03 SOD iP 06 15 38.4 U epP 53 ePP 17 25 KJN eP 06 15 15 epP 30 ePP 16 47		
10 SOD eP 14 55 32 KJN eP 14 55 55 KEV eP 14 55 14 H: 14 46 15 59.9 N, 147.1 W, 15 km Alaska aftershock	0.8	4.5	KEV iP 06 15 52.0 H: 06 07 41.5 28.3 N, 57.4 E, 62 km Southern Iran	1.0	31.5
10 NUR eP 14 57 01 KJN iP 14 56 50.5 U	0.9	15.8	11 NUR eP 09 55 37 SOD eP 09 54 51 KJN eP 09 55 15 H: 09 45 22.2 58.4 N, 152.3 W, 15 km Alaska aftershock	0.7	3.6
10 NUR eP 15 50 56 SOD eP 15 50 09 KJN eP 15 50 35 H: 15 40 53 60.1 N, 146.3 W, 15 km Alaska aftershock			11 SOD iP 10 13 15.7 KJN iP 10 13 29.6 e 43 H: 10 03 09.7 45.5 N, 151.9 E, 33 km Kurile Islands	0.7	8.0
10 NUR eP 22 25 01 SOD eP 22 24 48 KJN eP 22 24 49			11 NUR ePKP 14 58 25 KJN ePKP 14 58 19 H: 14 39 04 22.5 S, 175.8 W, 50 km Tonga Islands		
11 NUR iP 00 29 19.4	0.8	30.0	11 NUR eP 15 10 22 SOD eP 15 10 10 KJN iP 15 10 11.4 e 42 ePP 13 48 H: 14 57 16.6 4.3 N, 127.9 E, 60 km Talaud Islands	1.0	10.9
11 NUR eP 02 26 56 SOD eP 02 26 08 i 09.2 D KEV iP 02 25 50.7 H: 02 17 01.5 60.8 N, 142.2 W, 33 km Southern Alaska	0.9	22.9			
11 SOD eP 03 40 50 KEV eP 03 40 32 H: 03 31 38.7 / 60.2 N, 147.2 W, 33 km Alaska aftershock	0.9	21.0			
11 NUR eP 04 43 58 SOD eP 04 43 28 KJN eP 04 43 39	0.8	5.3	11 KJN eP 16 26 48		
11 NUR eSKP 05 50 35 SOD iSKP 05 50 17.4 KJN iSKP 05 50 24.6 H: 05 29 16.6 24.6 S, 179.9 E, 515 km Fiji Islands			11 NUR iP 17 05 35.7 SOD iP 17 05 25.6 KJN iP 17 05 25.4 D KEV eP 17 05 22 H: 16 53 39.1 6.4 N, 124.0 E, 567 km Celebes Sea	0.7	11.9
				0.9	28.4

May						May			
			T	A				T	A
11	NUR eP	18 33 13	1.0	6.2	12	KJN eP	16 39 05		
	SOD iP	18 32 26.7							
	KJN eP	18 32 49			12	NUR iP	17 05 52.4	1.2	34.7
	H: 18 22 47					SOD eP	17 05 04		
	56.6 N, 154.0 W, 33 km					KJN iP	17 05 27.0	1.2	23.5
	Alaska aftershock					KEV eP	17 04 46	1.3	24.6
						H: 16 55 46.9			
11	SOD eP	20 19 48				59.5 N, 144.8 W, 33 km			
	KJN eP	20 20 13				Alaska aftershock			
	KEV eP	20 19 29			12	NUR eP	18 27 11		
	H: 20 10 36					i	14.1 D	1.0	182.7
	60.3 N, 146.1 W, 33 km					i	27.0 U		
	Alaska aftershock					ePP	29 38		
12	NUR iSKP	01 59 05.0				eS	35 43		
	SOD eSKP	01 58 47				eScS	37 08		
	KJN eSKP	01 58 55				eSS	39 54		
	H: 01 37 59.5					eLQ	18 43.0		
	26.2 S, 178.3 E, 607 km					eLR	18 46.2		
	Fiji Islands					SOD eP	18 26 24		
						i	27.0 D		
12	NUR eP	02 14 42	0.8	10.3		iPcP	27 29.1		
	SOD eP	02 13 54				ePS	34 26		
	KJN eP	02 14 18	0.9	6.3	KJN iP	18 26 47.2 U	1.2	28.6	
	H: 02 04 15				i	49.9	1.0	111.2	
	56.9 N, 151.4 W, 25 km				i	27 03.0			
	Alaska aftershock				eS	35 02			
					eSS	39 00			
12	NUR iP	11 27 28.0	1.0	14.4	eP'P'	56 23			
	SOD eP	11 27 01			KEV eP	18 26 07			
	KJN iP	11 27 08.0	0.7	7.6	i	10.6 U	1.0	124.2	
	KEV eP	11 26 52			ePP	28 08			
	H: 11 15 35.1				eS	33 40			
	29.0 N, 141.5 E, 26 km				ePS	34 00			
	Honshu, Japan				eScS	36 06			
					eSS	37 24			
12	NUR eP	11 57 36	1.2	23.4	eLR	18 41			
	i	42.2 U			H: 18 16 41.9				
	SOD iP	11 56 48.0			56.6 N, 152.4 W, 10 km				
	i	53.0 D			Alaska aftershock				
	KJN iP	11 57 11.9	1.0	16.6					
	i	16.7			12	NUR eP	18 32 50	0.9	54.4
	KEV iP	11 56 29.8	1.2	26.6		SOD iP	18 32 04.1		
	e	35				KJN iP	18 32 26.1	1.0	48.0
	H: 11 47 32.2					KEV iP	18 31 46.0	0.8	41.7
	60.1 N, 147.0 W, 15 km								
	Alaska aftershock				12	NUR eP	18 39 26	0.8	7.3
						SOD eP	18 38 39		
12	NUR eP	12 14 35				KJN eP	18 39 02		
	KJN eP	12 14 01				H: 18 28 57.5			
						56.6 N, 152.2 W, 20 km			
12	NUR eP	13 52 19	0.8	7.3		Alaska aftershock			

May				T	A	May				T	A
12	NUR	eP	19 32 33	1.0	8.1	KEV	ePKP	05 44 49	1.3	20.9	
	SOD	eP	19 32 04				ePP	47 50			
							ePKS	48 32			
12	SOD	eP	23 47 10				e	54 30			
	KJN	eP	23 47 35				eSKSP	57 56			
			H: 23 37 50.4				eSPP	06 00 30			
			59.4 N, 143.1 W, 20 km (R)				e	02 30			
			Alaska aftershock				eSS	06 26			
							eLQ	06 24			
							eLR	06 32			
12	NUR	eP	23 52 29	0.9	6.7			H: 05 25 26.1			
	SOD	eP	23 51 41					32.8 S, 178.3 W, 33 km			
	KJN	iP	23 52 05.1	1.2	13.4			Kermadec Islands			
			H: 23 42 23.0								
			59.5 N, 143.1 W, 25 km								
			Alaska aftershock								
13	NUR	eP	00 18 11	0.8	11.5	13	NUR	eP 07 47 13			
	SOD	iP	00 17 24.0				KJN	iP 07 47 02.3 D	0.9	21.1	
	KJN	iP	00 17 46.9	1.0	14.2	13	SOD	iP 07 52 39.0			
	KEV	eP	00 17 06	0.8	14.9		KJN	eP 07 53 02			
			H: 00 07 42.1					H: 07 43 00			
			56.2 N, 152.7 W, 33 km (R)					56.8 N, 153.8 W, 25 km			
			Alaska aftershock					Alaska aftershock			
13	NUR	ePKP	00 26 14			13	NUR	ePKP 08 30 40			
		eSS	46 32				KJN	iPKP 08 30 34.3 D	0.8	24.5	
		eLQ	01 02.9					H: 08 11 00			
		eLR	01 08.1					33.1 S, 178.0 W, 15 km			
	KJN	ePKP	00 26 04	0.9	8.3			Kermadec Islands			
			H: 00 07 01.8								
			14.8 S, 176.7 W, 33 km			13	NUR	eP 08 47 51			
			Samoa Islands				KJN	eP 08 47 44	0.9	7.3	
13	NUR	eP	03 23 35	1.1	21.4	13	NUR	eP 10 10 15			
		eLQ	03 26.6				KJN	iP 10 10 02.9	0.9	10.3	
		eLR	03 27.8			13	SOD	eP 10 21 08			
	SOD	eP	03 22 09				KJN	eP 10 21 14	0.8	4.8	
		eS	24 04				KEV	iP 10 21 00.9	0.7	13.1	
	KJN	iP	03 22 55.1 D	0.9	61.4			H: 10 08 54			
		eS	25 18					19.7 N, 142.7 E, 33 km			
	KEV	eP	03 21 43	0.7	10.6			Mariana Islands			
		eS	23 13								
			H: 03 19 43.2			13	NUR	ePKP 11 24 26			
			76.0 N, 8.2 E, 33 km				SOD	ePKP 11 24 22			
			Svalbard region					eSKP 26 54			
13	NUR	ePKP	05 45 10				KJN	ePKP 11 24 17			
	SOD	iPKP	05 44 54.0					i 28.3			
	KJN	iPKP	05 44 57.2	1.0	201.7			eSKP 27 03			
		ePKS	48 30					H: 11 06 16.4			
		e	49 08					21.8 S, 179.6 W, 578 km			
			cont.					Tonga Islands			

May						May					
				T	A					T	A
13	NUR	eP	11 46 01	0.9	13.3	14	NUR	iPKP	01 11 54.0	0.9	24.6
		i	18.0				KJN	iPKP	01 11 42.7 U	0.9	21.5
	KJN	iP	11 45 50.3	0.9	18.7		H: 00 52 10 33.3 S, 178.3 W, 33 km (R) Kermadec Islands				
13	SOD	eP	15 15 22			14	NUR	iPKP	01 25 01.3	0.8	31.0
		e	27				SOD	ePKP	01 24 43		
	H: 15 06 03 60.0 N, 145.9 W, 33 km Alaska aftershock						KJN	iPKP	01 24 49.6 U	0.8	46.7
							KEV	ePKP	01 24 39		
13	NUR	iP	15 38 00.4	1.0	21.6		H: 01 05 47.6 32.9 S, 178.8 W, 309 km Kermadec Islands				
	KJN	eP	15 37 49			14	NUR	eP	12 05 11		
13	NUR	iPKP	17 02 31.3 U	1.1	211.1		SOD	eP	12 04 25		
		i	03 09.2 D				KJN	eP	12 04 50		
	SOD	ePKP	17 02 13				KEV	eP	12 04 04		
	KJN	iPKP	17 02 19.8 U	1.3	160.8		H: 11 55 28.2 62.8 N, 152.3 W, 15 km Alaska aftershock				
		e	03 07			14	NUR	iP	12 43 49.2	0.7	13.9
		ePKS	05 57				KJN	iP	12 43 38.1	0.8	10.3
	KEV	ePKP	17 02 15			14	NUR	iPKP	13 43 12.0	1.0	33.3
	H: 16 42 48.3 32.7 S, 178.6 W, 33 km Kermadec Islands						KJN	iPKP	13 43 00.2 D	0.9	13.8
13	NUR	iP	17 10 14.0 D	1.1	60.3		H: 13 23 29 32.5 S, 178.2 W, 29 km Kermadec Islands				
		i	28.6			14	SOD	eP	14 28 19		
	KJN	eP	17 10 02	1.2	56.8		KJN	eP	14 28 45	1.0	8.7
13	NUR	iP	17 12 31.0	0.9	23.0		H: 14 19 05 59.7 N, 144.4 W, 33 km Alaska aftershock				
13	NUR	eP	17 52 45			14	NUR	eP	17 05 23		
	KJN	iP	17 52 33.2 D	0.9	17.8		SOD	eP	17 06 27		
13	NUR	iPKP	20 57 32.3 U	0.9	108.2		KJN	eP	17 05 59		
	SOD	ePKP	20 57 14			14	NUR	ePKP	20 19 10		
	KJN	iPKP	20 57 20.9 D	1.0	114.3		SOD	ePKP	20 19 01		
	H: 20 37 54 32.4 S, 178.3 W, 70 km Kermadec Islands						KJN	ePKP	20 19 03		
								eSKP	21 41		
13	NUR	eP	21 02 47				KEV	ePKP	20 18 57		
	KJN	iP	21 02 31.5				H: 20 01 01.0 21.3 S, 179.3 W, 606 km Fiji Islands				
13	NUR	eP	22 56 17	0.9	11.5						
13	NUR	iP	23 45 10.7	1.0	11.8						
	SOD	iP	23 44 38.0 U								
	KJN	iP	23 44 48.7 U	0.9	30.9						
	H: 23 34 26.1 40.5 N, 138.6 E, 33 km Sea of Japan										

May			T	A	May			T	A
15	NUR eP	01 18 27			KEV iP	08 46 27.8	0.8	42.3	
	SOD eP	01 19 33			H: 08 38 54.0				
	KJN eP	01 19 03			36.3 N, 71.5 E, 122 km				
	H: 01 12 40				Hindu Kush				
	33.4 N, 16.0 E, 33 km (R)								
	Libya								
15	SOD eP	04 12 13			16 NUR iP	10 02 23.0			
	H: 04 02 39				SOD eP	10 01 36			
	57.6 N, 152.2 W, 20 km				KJN eP	10 01 58			
	Alaska aftershock				KEV iP	10 01 19.7	1.0	25.2	
					H: 09 51 41.0				
					54.0 N, 164.1 W, 33 km				
					Unimak Island				
15	NUR iP	11 06 47.0 D	1.0	42.5	16 SOD eP	10 36 56			
15	KEV ePS	11 17 26			H: 10 27 36				
	eSS	23 20			59.3 N, 152.0 W, 35 km				
	eSSS	27 28			Alaska aftershock				
	H: 10 50 21								
	3.5 S, 149.1 E, 44 km				16 NUR eP	12 58 39			
	Bismarck Sea				KJN eP	12 58 27	1.0	13.1	
15	NUR eP	22 38 35			16 NUR iP	14 55 14.8	0.9	18.0	
	e	39 15			SOD iP	14 54 26.9 U			
	SOD eP	22 39 03			KJN iP	14 54 50.6 U	1.0	24.0	
	e	40 05			KEV iP	14 54 09.0	0.8	13.6	
	KJN eP	22 38 40			H: 14 44 54				
	e	39 49			57.6 N, 151.0 W, 33 km				
	KEV eP	22 39 10			Alaska aftershock				
	Moscow:								
	H: 22 31 56				16 NUR ePKP	16 27 28	0.8	56.4	
	35.9 N, 58.6 E				i	30.0 U			
	Iran				SOD ePKP	16 27 12			
16	NUR iP	06 07 21.7 U	0.6	28.1	KJN ePKP	16 27 18			
	e	59			i	19.1 U	0.9	76.1	
	i	08 09.8			KEV ePKP	16 27 07			
	SOD iP	06 07 15.8 U			eSS	48 21			
	KJN iP	06 07 08.2 U	0.7	70.2	H: 16 07 46.2				
	e	39			32.8 S, 178.3 W, 33 km				
	KEV iP	06 07 18.7	0.6	21.0	Kermadec Islands				
	e	56							
	H: 06 00 58.1				16 NUR iP	16 29 33.0 D	0.8	46.5	
	49.9 N, 78.3 E, 0 km				SOD eP	16 29 05			
	Kazakh S.S.R.				KJN iP	16 29 20.6	0.9	25.7	
16	NUR iP	08 46 03.1 U	0.9	119.7	16 NUR iP	16 33 43.6			
	SOD iP	08 46 19.0 D			KJN iP	16 33 32.1	0.8	15.0	
	epP	49							
	KJN iP	08 46 02.7 U	0.9	79.0	16 NUR iP	17 36 07.8	0.8	9.9	
	esP	45			SOD eP	17 35 37			
	cont.				KJN iP	17 35 46.5 D	0.7	18.9	
					cont.				

May				T	A	May				T	A
	KEV	eP	17 35 28	0.6	7.9	17	NUR	iPKP	17 25 07.9 D	0.8	15.5
			H: 17 26 28.0						SOD ePKP 17 24 49		
			42.1 N, 132.7 E, 427 km						H: 17 05 24.8		
			Sea of Japan						33.2 S, 178.4 W, 33 km		
									Kermadec Islands		
17	NUR	eP	01 00 22			17	NUR	ePKP	18 45 36	1.0	19.6
		eS	08 30						H: 18 25 56		
		ePS	50						33.3 S, 178.3 W, 59 km		
		eScS	10 11						Kermadec Islands		
		eLQ	01 15.9								
		eLR	01 18.4								
	SOD	eP	00 59 34			17	NUR	eP	19 21 34		
	KJN	iP	00 59 58.7 D	0.9	15.6		SOD	eP	19 20 53		
	KEV	eP	00 59 16	0.9	17.5				H: 19 10 56.2		
		eS	01 06 34						46.9 N, 152.6 E, 33 km		
		e	08 10						Kurile Islands		
		e	10 52								
		eLR	01 14.4			17	NUR	iP	19 34 42.0	1.0	106.6
								i	51.0 D		
			H: 00 50 17.9					e(PP)	36 16		
			59.4 N, 142.7 W, 35 km					e	40 48		
			Alaska aftershock					iS	41 21		
17	NUR	iP	01 32 11.6 D	0.9	32.8			eSS	44 52		
	KJN	iP	01 32 00.0	0.9	26.6			eLQ	19 45		
								eLR	19 46.8		
17	NUR	eP	04 52 31	1.1	41.8		SOD	eP	19 34 49		
		i	38.2					i	56.3 D		
		eS	05 01 20				KJN	eP	19 34 54		
		eSS	05 44					ePP	36 49		
		eLQ	05 10.5				KEV	iP	19 35 00.7 D	1.2	110.6
		eLR	05 13					i	08.0 U		
	SOD	eP	04 51 45					eS	41 55		
		i	57.5 U					eSS	45 44		
	KJN	iP	04 52 06.8 D	0.9	13.8				H: 19 26 20.6		
		i	14.1						35.2 N, 35.9 W, 33 km		
	KEV	iP	04 51 28.1	0.7	16.1				North Atlantic Ocean		
		eS	59 17								
		e	05 03 32								
		eLR	05 08.5			17	NUR	eP	23 26 05		
			H: 04 41 44								
			53.9 N, 159.7 W, 33 km								
			South of Alaska								
17	NUR	eP	07 15 46								
17	NUR	eP	11 52 27								
		e	53 34								
	SOD	eP	11 52 42								
	KJN	eP	11 52 24	1.0	9.8						
		e	53 12								
			Moscow:								
			H: 11 45 34								
			36.6 N, 70.4 E, 213 km								
			Hindu Kush								
						18	KJN	eP	13 57 07		
									H: 13 47 22.7		
									59.6 N, 145.0 W, 20 km		
									Alaska aftershock		

May				T	A	May				T	A
18	NUR	ePKP	14 31 33			19	SOD	eP	01 53 45		
		ePP	34 20				KJN	iP	01 54 09.3	0.6	4.7
		ePKS	35 08				H: 01 44 34				
		eSS	52 34				60.4 N, 147.5 W, 15 km				
		eSSS	57 38				Alaska aftershock				
	KJN	iPKP	14 31 25.7	1.0	12.0	19	SOD	eP	02 33 10		
		i	37.3 U				KJN	eP	02 33 33		
		ePKS	34 55				H: 02 23 45.2				
	H: 14 12 10.1						59.4 N, 145.2 W, 20 km				
	21.2 S, 174.5 W, 33 km						Alaska aftershock				
	Tonga Islands										
18	NUR	eP	17 51 18			19	NUR	eP	06 13 01		
		e	56 10				i		07.1 U		
		eSKS	18 01 52				i		15 50.5		
	SOD	eP	17 50 57				eS		16 05		
	KJN	iP	17 51 03.7	0.7	8.3		e		26		
	KEV	eP	17 50 53	0.7	6.7		eLQ	06 17.1			
	H: 17 38 25.5						eLR	06 18			
	18.2 N, 147.3 E, 19 km						SOD	iP	06 11 33.3 D		
	Mariana Islands						eS		13 25		
18	NUR	eP	18 24 57				KJN	iP	06 12 17.0 D	1.0	22.2
	SOD	eP	18 24 10				i		19.0	0.7	47.0
	KJN	eP	18 24 34				iS		14 45.9		
	H: 18 14 49						KEV	iP	06 11 02.8	0.8	25.7
	59.7 N, 145.0 W, 33 km						i		42.2 U		
	Alaska aftershock						iS		12 33.4		
							eLR	06 12.9			
							H: 06 09 04.1				
18	NUR	eP	18 54 01	1.1	13.9		77.7 N, 18.3 E, 33 km				
	SOD	eP	18 53 14				Svalbard region				
	KJN	eP	18 53 37	0.9	5.5						
18	NUR	eP	20 08 16			19	KJN	eP	07 40 44		
	SOD	eP	20 09 18				H: 07 27 47.0				
	KJN	eP	20 09 00				5.8 S, 105.5 E, 37 km				
	H: 20 03 04						Java				
	36.5 N, 24.0 E, 33 km (R)										
	Southern Greece										
18	NUR	iP	21 22 52.0	1.2	22.3	19	NUR	iP	10 50 06.1	0.6	9.9
	SOD	eP	21 22 04				i		37.0		
	KJN	eP	21 22 28				ePS		59 28		
	H: 21 12 46.2						SOD	eP	10 49 21		
	59.5 N, 142.7 W, 25 km						i		28.6 U		
	Alaska aftershock						KEV	iP	10 49 16.1	1.0	31.5
							H: 10 39 24.8				
							45.5 N, 150.3 E, 33 km				
19	KJN	iP	00 33 46.0	0.9	7.3		Kurile Islands				

May				May			
		T	A		T	A	
19	NUR eP	14 52 41			eSS	03 01 24	
	SOD iP	14 51 53.2 U			eLQ	03 03.3	
	KEV iP	14 51 33.1 U			eLR	03 06.5	
	H: 14 42 40.7				Moscow:		
	60.2 N, 146.3 W, 33 km				H: 02 41 53		
	Alaska aftershock				15.1 N, 56.5 E		
					Arabian Sea		
19	NUR iP	15 48 01.0 U	0.9	37.0	20	NUR ePKP	05 13 07
	eS	56 24				i	09.0 U
	eScS	57 42				SOD ePKP	05 12 59 U
	SOD iP	15 47 13.1 U				KEV ePKP	05 12 55
	KEV iP	15 46 55.9 U	0.8	22.7		H: 04 53 30.3	
	H: 15 37 35.9					31.4 S, 178.2 W, 33 km	
	57.0 N, 152.8 W, 25 km					Kermadec Islands	
	Alaska aftershock						
19	NUR eP	23 03 48	1.0	8.1	20	NUR iP	05 42 32.8
	SOD eP	23 03 45				SOD iP	05 41 44.3 D
						KEV eP	05 41 27
19	NUR eP	23 17 12	1.1	16.9		H: 05 32 13.7	
	ePP	20 52				58.0 N, 149.6 W, 20 km	
	e	27 04				Alaska aftershock	
	eSKS	46			20	NUR iP	05 54 21.4 D
	eS	28 33				SOD eP	05 53 05
	ePS	30 06					
	ePPS	58			20	NUR eP	06 15 14
	eSS	34 42				ePKP	19 30
	e	35 03				e	36
	e	36 44				ePP	54
	SOD iP	23 17 09.6				eSKS	25 50
	KEV eP	23 17 06				e	26 22
	ePP	20 56				eS	27 34
	eSKS	27 12				ePS	28 44
	eS	28 13				eSS	34 10
	eSP	29 38				eLQ	06 45.4
	eSS	34 40				eLR	06 50.5
	H: 23 03 41.8					SOD eP	06 15 01
	0.7 S, 80.2 W, 54 km					KEV eP	06 14 52
	Ecuador					ePP	19 02
						e	26 04
19	NUR eP	23 32 33				ePS	28 12
	SOD eP	23 31 55				eSS	33 18
	H: 23 22 04.0					H: 06 01 14.8	
	48.3 N, 154.4 E, 50 km					2.7 S, 139.3 E, 61 km	
	Kurile Islands					New Guinea	
20	NUR eP	02 50 55			20	NUR iP	06 25 58.2 U
	eS	58 12				i	26 00.9 U
	cont.					SOD iP	06 25 44.1
						KEV eP	06 25 41

May						May				
				T	A					
20	NUR eP	09 38 40				21	NUR iP	11 51 33.0 D	0.5	41.2
	SOD iP	09 37 51.0					SOD iP	11 50 58.0 D		
	H: 09 28 38.5						KEV eP	11 50 47	0.7	13.6
	60.2 N, 147.4 W, 33 km						H: 11 41 03.1			
	Alaska aftershock						43.1 N, 141.8 E, 91 km			
							Hokkaido, Japan			
20	SOD eP	15 59 52				21	NUR eP	13 41 54		
	eS	16 01 23					SOD eP	13 41 06		
	KJN eP	16 00 32					KJN eP	13 41 30	1.0	9.6
	eS	02 32					H: 13 31 50.9			
	KEV eP	15 59 22					60.2 N, 147.2 W, 33 km			
	eS	16 00 25					Alaska aftershock			
20	NUR eP	19 48 26		0.8	7.4	21	NUR eP	15 46 11		
	KJN eP	19 48 17		0.7	4.4		i	15.1 D	1.2	34.2
20	NUR eP	21 14 00					i	47 04.0 U		
	SOD eP	21 13 21					eS	54 26		
	KJN eP	21 13 35		0.7	5.2		eLQ	16 01.2		
	KEV eP	21 13 08					eLR	16 04.0		
	H: 21 03 18						SOD eP	15 45 24		
	45.9 N, 151.7 E, 33 km (R)						i	26.5 D		
	Kurile Islands						KJN eP	15 45 47		
20	NUR iP	22 43 17.3 U		0.8	26.6		i	50.2 D	1.1	29.0
	SOD eP	22 43 01					KEV iP	15 45 08.2 D	0.9	24.5
21	NUR iP	00 07 57.7		0.5	6.8		eS	52 28		
	SOD eP	00 07 21					e	54 18		
	KEV eP	00 07 09					eSS	56 10		
	H: 23 58 01.3						eLQ	15 57.9		
	46.1 N, 143.5 E, 278 km						eLR	15 59.6		
	Sakhalin						H: 15 36 01.5			
							59.0 N, 153.5 W, 15 km			
							Alaska aftershock			
21	NUR eP	01 21 25		1.2	26.4	21	SOD eP	16 36 11		
	eS	29 30					H: 16 26 38			
	SOD iP	01 20 36.7 D					57.0 N, 152.9 W, 33 km			
	KEV iP	01 20 18.7 D		0.9	43.8		Alaska aftershock			
	H: 01 11 23.4									
	60.4 N, 145.9 W, 15 km									
	Alaska aftershock					21	NUR eP	19 14 20		
21	NUR iP	07 04 28.2					SOD eP	19 13 46		
	SOD eP	07 03 48					KJN eP	19 13 57		
							e	14 09		
							Moscow:			
21	NUR iP	07 46 03.0 D		0.9	34.4		H: 19 03 07			
	SOD iP	07 45 46.1 D					37.0 N, 142.0 E			
	KEV eP	07 45 44					Japan			

May		T	A	May		T	A
23	NUR eP 00 21 04 KJN eP 00 21 11 H: 00 11 56 15.0 N, 56.0 E, 33 km (R) Arabian Sea			24	NUR ePKP 04 32 30 ePP 35 24 ePKS 36 07 ePSKS 45 32 SOD ePKS 04 35 45 KJN ePKP 04 32 23 ePKS 35 54 H: 04 13 05.3 22.6 S, 174.1 W, 33 km (R) Tonga Islands	1.0	16.8
23	NUR eP 00 26 10 e 16 ePP 28 18 eS 33 30 SOD eP 00 26 46 KJN iP 00 26 24.2 U KEV eP 00 26 59 eS 35 03 H: 00 17 07.5 14.6 N, 56.3 E, 33 km Arabian Sea	1.0	19.8	24	NUR eP 07 02 50 KJN eP 07 02 26 H: 06 52 44.4 59.7 N, 148.5 W, 20 km Alaska aftershock	1.0	16.0
23	NUR iP 11 33 41.7 D ipP 35 11.9 eS 42 51 SOD iP 11 33 16.1 D eS 42 04 KJN iP 11 33 23.5 D epP 34 56 ePP 35 58 KEV iP 11 33 08.6 D H: 11 22 33.3 28.6 N, 139.4 E, 409 km Bonin Islands	0.8	195.8	24	NUR eP 09 15 23 KJN eP 09 14 59 H: 09 04 57.0 56.7 N, 152.9 W, 33 km Alaska aftershock		
23	NUR eP 12 38 14 e 33 KJN iP 12 38 21.2	0.8	6.8	24	NUR eP 10 26 27 KJN eP 10 26 03 KEV eP 10 25 24 H: 10 16 21.5 59.9 N, 145.5 W, 15 km Alaska aftershock	1.0	14.7
24	NUR iP 00 09 31.0 SOD iP 00 09 38.6 KJN eP 00 09 27 KEV iP 00 09 44.6 H: 00 00 50.2 30.1 N, 82.1 E, 33 km Nepal	0.8	8.6	24	NUR iP 10 42 47.3 D i 57.3 D ePP 45 26 eS 52 07 e 53 31 e 55 50 eSS 56 40 eLQ 11 02.5 eLR 11 06.0 SOD iP 10 42 17.8 D i 27.9 D KJN iP 10 42 26.8 D i 37.2 D e 44 38 ePS 51 50 KEV iP 10 42 07.8 e 18 ePP 44 33 eS 50 54 eSS 55 08 H: 10 31 24.1 34.3 N, 141.1 E, 33 km Honshu, Japan	0.9	25.2
24	NUR eP 00 50 26 SOD eP 00 49 37 KJN eP 00 50 01 e 05 KEV eP 00 49 19 H: 00 40 21.9 60.2 N, 148.0 W, 15 km Alaska aftershock	0.9	6.7			0.9	27.2
		0.9	8.8			0.8	16.6

May				T	A	May				T	A
27	NUR	ePKP	01 13 39	0.5	5.2	27	NUR	ePKP	06 49 41		
	KJN	ePKP	01 13 31	0.9	4.6		SOD	iPKP	06 49 52.0 U		
	KEV	ePKP	01 13 22					epPKP	50 19		
	H: 00 54 52.0							eSKP	53 03		
	15.6 S, 167.8 E, 157 km						KJN	iPKP	06 49 47.9 U	0.8	23.7
	New Hebrides Islands							epPKP	50 22		
							KEV	ePKP	06 49 56	0.7	10.7
								ePKS	53 22		
							H: 06 30 57.7				
27	NUR	ePKP	01 15 24	1.2	55.8		56.2 S, 27.4 W, 116 km				
		e	26				Sandwich Islands				
		ePP	17 04			27	NUR	eP	11 18 56		
		e	40				KJN	eP	11 19 00	0.6	4.6
		eSKP	18 48					i	04.0		
		ePKS	19 02					epP	44		
		ePKKP	25 15				KEV	eP	11 18 56	1.0	12.6
		e	27 36				H: 11 06 22.0				
		eSS	33 40				6.8 N, 73.1 W, 139 km				
		e	34 04				Northern Colombia				
		eSKKKS	35 29			27	NUR	ePKP	11 39 47		
		e	37 24				H: 11 20 26.8				
		eSSS	38 28				18.4 S, 173.1 W, 33 km				
	SOD	ePKP	01 15 37				Tonga Islands				
		i	38.2			27	NUR	eP	15 07 50		
		epPKP	16 10				SOD	eP	15 07 19		
		ePP	17 46			27	SOD	ePKP	19 21 02		
		eSKP	18 46				KJN	ePKP	19 20 58		
	KJN	iPKP	01 15 32.5	1.4	210.0		H: 19 02 02.4				
		epPKP	16 04				56.4 S, 28.4 W, 61 km				
		ePP	17 30				Sandwich Islands				
		eSKP	18 42			27	NUR	eP	23 56 18	1.0	7.7
		ePKS	19 09			28	NUR	eP	01 39 54		
		eSKS	22 20				SOD	eP	01 39 10		
		e	47				KJN	iP	01 39 44.2 U	0.8	8.7
		ePKKP	25 17			28	NUR	iP	02 08 23.2 D	1.1	64.1
		eSKKKS	35 11					eS	17 44		
	KEV	iPKP	01 15 41.9					ePS	18 21		
		epPKP	16 14					eSS	22 34		
		iPP	18 03.6					eSSS	26 19		
		eSKP	53					eLR	02 31.5		
		iPKS	19 09.0				SOD	iP	02 08 06.2 D		
		esPKS	40				KJN	iP	02 08 07.8 U	1.1	113.4
		e	20 44				KEV	iP	02 08 02.0 D	1.0	33.6
		ePS	28 36					eS	17 05		
		e	30 40				H: 01 56 58.9				
		eSS	35 22				24.5 N, 122.0 E, 41 km				
	H: 00 56 42.5						Taiwan				
	56.1 S, 27.6 W, 105 km										
	Sandwich Islands										
27	NUR	eP	02 55 54								
	SOD	eP	02 56 07								
	KJN	eP	02 56 02	1.0	6.5						

May						May					
				T	A					T	A
28	NUR	eP	04 25 10	0.9	8.1	29	KJN	eP	02 57 55		
	KJN	eP	04 24 51						H: 02 47 38.0		
									53.7 N, 167.8 W, 33 km		
									Fox Islands		
28	KJN	eP	06 45 28	0.7	8.3	29	NUR	eP	03 44 54	0.9	13.0
			H: 06 32 54				SOD	iP	03 44 07.3		
			7.8 N, 126.8 E, 103 km				KJN	iP	03 44 31.3 U	1.2	20.2
			Philippine Islands				KEV	iP	03 43 49.8	1.0	25.2
28	NUR	eP	12 44 32	1.1	13.7				H: 03 34 51.8		
		e(PPP)	48 46						60.1 N, 146.5 W, 15 km		
		eS	53 58						Alaska aftershock		
		eSS	58 30			29	NUR	eP	05 18 45	0.7	6.2
		eSSS	13 01 50				SOD	eP	05 18 06		
		eLQ	13 03.2					ePcP	53		
		eLR	13 07.2				KJN	iP	05 18 20.6	1.0	9.8
	SOD	eP	12 44 51					ePcP	19 02		
		e	45 01				KEV	eP	05 17 52		
	KJN	iP	12 44 51.0 U	1.1	23.0				H: 05 08 02.2		
	KEV	eP	12 45 09	1.1	17.5				44.7 N, 149.4 E, 50 km		
			H: 12 33 10.2						Kurile Islands		
			0.8 S, 24.7 W, 33 km			29	NUR	ePKP	09 23 19	1.2	14.0
			Mid-Atlantic Ocean				SOD	iPKP	09 23 30.7 U		
28	NUR	iP	16 28 21.0 U	1.2	69.0			ePP	25 41		
		i	27.8 D					iSKP	26 40		
		i	35.0 D				KJN	iPKP	09 23 25.7 U	1.0	21.8
		eS	36 41						H: 09 04 27.1		
	SOD	iP	16 27 33.2 U						56.2 S, 27.7 W, 33 km		
		i	39.6 D						Sandwich Islands		
		i	45.2 D								
	KJN	iP	16 27 56.8 U	1.0	42.5	29	NUR	iP	10 27 39.5 U	0.7	17.6
		i	28 03.3 D					i	56.5 U		
	KEV	iP	16 27 15.0					iPcP	28 27.9		
		i	21.6 D	1.0	58.8			eS	35 48		
			H: 16 18 04.2					eSS	39 52		
			58.3 N, 150.6 W, 25 km				SOD	iP	10 26 50.5 U		
			Alaska aftershock					e	27 17		
28	NUR	eP	18 47 34	0.7	6.2		KJN	iP	10 27 14.7 U	0.7	22.7
	SOD	eP	18 46 54				KEV	iP	10 26 33.0 U	0.8	25.7
	KJN	iP	18 47 18.2	0.6	6.8			i	49.5 U		
28	SOD	eP	23 41 25					eS	33 48		
	KJN	eP	23 41 28					eSS	37 22		
			H: 23 28 27.9						H: 10 17 34.5		
			1.6 N, 127.2 E, 103 km						60.2 N, 146.3 W, 5 km		
			Molucca Passage						Alaska aftershock		
29	NUR	iP	01 26 32.7 D	0.7	16.1	29	KJN	eP	14 28 09	0.7	5.3
	SOD	eP	01 26 16								
	KJN	iP	01 26 22.2 D	0.8	9.5						

May		T		A		May		T		A					
31	NUR	iP	00 51	20.0	U	1.0	1702.8	31	NUR	iP	10 34	52.0	0.9	16.6	
		e	52 20						SOD	eP	10 34	08			
		ePP	53 45						KJN	eP	10 34	25	U	1.2	35.3
		e	57 08							ePcP	35 19				
		e	59 28						H: 10 24 54						
		eS	01 00	04					53.7 N, 158.7 E, 110 km						
		eP'P'	19 39						Southern Kamchatka						
	SOD	iP	00 50	42.7	U			31	NUR	iP	13 29	12.2	0.6	16.1	
		eS	58 54						SOD	eP	13 29	00			
		eScS	01 00	30					KJN	iP	13 28	57.7	D	0.8	10.8
		eP'P'	19 56							i	29 01	0			
	KJN	iP	00 50	56.3	U				KEV	eP	13 28	57			
		eS	59 22						H: 13 19 46.5						
		eP'P'	01 19	42					35.3 N, 103.1 E, 33 km						
	KEV	iP	00 50	30.3	U				Kansu, China						
		i	33.3					31	NUR	eSS	17 53	42			
		e	52 00							eSSS	58 14				
		ePP	38							eLR	18 14.5				
		e	53 06						KEV	eLR	18 12.2				
		ePPP	54						H: 17 15 26.8						
		ePcS	55 44						13.6 S, 172.1 E, 73 km						
		eS	58 27						New Hebrides Islands						
		eLQ	01 05	0											
		eLR	01 08	2											
	H: 00 40 36.4														
	43.5 N, 146.8 E, 48 km														
	Kurile Islands														
31	NUR	iP	01 07	28.5	D	1.0	43.6								
	SOD	eP	01 06	51											
	KJN	eP	01 07	04		0.8	21.6								
	KEV	eP	01 06	40											
	H: 00 56 42.9														
	43.6 N, 147.1 E, 33 km														
	Hokkaido, Japan														
									March 3, 1965						
									M. T. Porkka						
									Aili Huovila						

June				T	A	June				T	A
3	NUR	iP	02 59 02.5 D	0.9	42.0	4	SOD	eP	02 16 22		
		epP	31								
		ePcP	46			4	NUR	iP	03 04 16.5 D	0.7	22.7
		ePP	03 00 59					ePP	05 30		
		e	04 48					eS	09 56		
		eS	06 54					eLQ	03 13.1		
		esS	07 40					eLR	03 15.2		
		eScS	08 38				SOD	eP	03 04 32		
		e	09 25				KJN	iP	03 04 17.2 D	0.7	18.5
	SOD	iP	02 59 01.1 D					ePP	05 32		
		i	44.2				KEV	eP	03 04 43		
		ePP	03 01 07					H:	02 57 07.6		
	KJN	iP	02 58 54.0 D						36.4 N, 69.3 E, 33 km (R)		
	KEV	iP	02 59 03.0 D	1.0	71.4				Hindu Kush		
		eS	03 06 50								
		esS	07 42			4	NUR	e	04 42 22		
		H:	02 49 14.9					eSKS	52 32		
			25.9 N, 95.8 E, 100 km					ePS	54 05		
			Northern Burma					eSS	58 40		
3	NUR	eP	05 17 08	1.2	28.5		SOD	eP	04 41 39		
							KJN	eP	04 41 51	1.2	17.2
3	KJN	eP	05 20 11	0.7	5.4		KEV	eP	04 41 39		
								H:	04 28 54.7		
3	NUR	eP	14 13 46	1.1	40.5				17.5 N, 100.8 W, 22 km		
		i	52.0						Guerrero, Mexico		
	SOD	eP	14 12 59			4	NUR	ePS	11 45 40		
		i	13 03.7					eSS	52 26		
	KJN	iP	14 13 22.4	1.0	16.4			eSSS	56 08		
		i	27.5				KEV	ePS	11 45 10		
	KEV	eP	14 12 45	1.0	29.4			H:	11 17 11.8		
									6.1 S, 149.9 E, 54 km		
		H:	14 03 42.4						New Britain		
			59.9 N, 143.9 W, 20 km								
			Alaska aftershock			4	SOD	iP	14 41 50.0		
3	SOD	eP	18 52 37				KJN	eP	14 42 24		
3	KJN	eP	23 06 14			4	KJN	eP	17 46 28		
4	NUR	ePKP	00 35 25	1.2	25.4	5	NUR	eP	00 17 07	1.0	27.0
	KJN	iPKP	00 35 13.6 U	0.9	13.8			i	17.4	1.1	123.7
								e	20 04		
		H:	00 15 40					eS	21 24		
			33.5 S, 177.8 W, 31 km					eLQ	00 22.2		
			Kermadec Islands					eLR	00 23.0		
4	NUR	eP	01 53 47				SOD	eP	00 17 55		
	SOD	eP	01 53 29					e	18 39		
	KJN	eP	01 53 30	0.5	9.0		KJN	iP	00 17 26.1	1.0	25.5
							KEV	eP	00 18 18		
		H:	01 42 19.9					eS	23 45		
			24.5 N, 122.1 E, 33 km (R)					H:	00 11 51.9		
			Taiwan						39.3 N, 43.1 E, 33 km (R)		
									Eastern Turkey		

June		T	A	June		T	A
5	KJN ePKP 01 22 45 H: 01 03 26 25.6 S, 176.5 W, 33 km (R) Kermadec Islands			SOD iP 09 59 48.2 U i 53.1 KJN iP 10 00 12.4 U 1.0 69.9 i 17.4 H: 09 50 35.0 60.4 N, 146.0 W, 15 km Alaska aftershock			
5	NUR iP 02 43 43.6 0.8 20.9 e 54 e 44 20 ePP 45 16 SOD iP 02 43 39.9 e 51 KJN iP 02 43 32.1 U 0.8 25.8 KEV iP 02 43 42.2 U 1.1 45.0 H: 02 36 12.4 42.5 N, 84.8 E, 52 km Sinkiang, China			5 NUR eP 12 43 38 0.7 17.6			
5	NUR iP 04 11 39.0 D 0.9 21.1 SOD iP 04 11 14.3 D KJN iP 04 11 21.8 D 0.8 18.5 KEV iP 04 11 06.5 D 0.9 17.5 H: 03 59 27 25.1 N, 142.6 E, 33 km Bonin Islands			5 NUR iP 13 06 16.7 D 1.0 27.4 e 09 49 SOD eP 13 07 04 i 30.1 KJN eP 13 06 35 i 36.0 2.7 30.7 eS 10 53 KEV eP 13 07 32 H: 13 01 28.2 43.0 N, 45.4 E, 33 km Eastern Caucasus			
5	NUR eP 04 51 15 SOD eP 04 51 25 KJN eP 04 51 34 1.0 11.1 KEV eP 04 51 40 H: 04 44 48.6 47.8 N, 27.3 W, 33 km North Atlantic Ocean			5 SOD iP 16 23 10.1 KJN eP 16 23 03 0.8 8.3			
5	NUR eP 05 32 40 SOD eP 05 32 25 KJN eP 05 32 31 0.9 7.5			5 NUR iP 22 17 12.3 U 1.1 162.2 i 15.8 i 31.2 e 18 21 eS 25 36 e 26 46 eSS 29 24 eLQ 22 32.4 eLR 22 36 SOD iP 22 16 24.1 U ePcP 17 30 KJN iP 22 16 47.6 U 1.1 97.3 iPcP 17 39.7 KEV iP 22 16 06.2 U 1.2 134.6 ePcP 17 18 eS 23 28 eScS 25 54 H: 22 06 53.0 58.1 N, 152.1 W, 15 km Alaska aftershock			
5	NUR iP 08 48 35.0 0.5 3.8 SOD iP 08 47 55.6 KJN eP 08 48 10 0.7 4.6 H: 08 37 54 46.2 N, 151.9 E, 33 km (R) Kurile Islands			6 SOD iP 00 06 17.0 KJN eP 00 06 10 0.8 4.1			
5	NUR iP 10 00 37.0 U 1.2 58.6 i 41.9 ePP 02 48 ePPP 04 06 ePcS 05 26 eS 08 44 eScS 10 22 eSS 12 52 cont.						

June						June					
				T	A					T	A
9	KJN	eP	07 21 36	1.0	8.9	10	NUR	ePKP	19 32 58	0.9	9.9
	Moscow:						SOD	ePKP	19 32 40		
	H:	07 16 04					KJN	ePKP	19 32 50		
		38.9 N, 40.2 E					KEV	ePKP	19 32 44	0.7	7.9
	Turkey						H:	19 13 52.0			
								18.0 S, 167.9 E, 47 km			
9	NUR	eP	09 34 21	1.0	20.0			New Hebrides Islands			
	SOD	eP	09 33 41			10	NUR	iP	20 01 25.4 U	0.6	16.1
	e		54				e	40			
	KJN	eP	09 34 05				SOD	iP	20 01 27.9		
	H:	09 24 18					KJN	iP	20 01 22.0 U	0.8	34.8
		59.6 N, 145.1 W, 33 km					H:	19 48 30.5			
	Alaska aftershock							6.1 S, 104.9 E, 84 km			
9	NUR	iP	14 13 44.8	0.5	6.6			Java			
	SOD	eP	14 13 19			10	NUR	iP	22 29 37.7	0.8	38.6
	KJN	eP	14 13 27	0.6	7.2		ipP	30 03.2			
9	NUR	eP	14 50 56				e	32 46			
	KJN	eP	14 50 46				ePP	33 38			
9	SOD	iP	17 36 42.4				eSKS	39 58			
9	NUR	iP	21 26 24.3	0.7	11.3		eS	40 26			
	i		40.0				esS	41 05			
	KJN	iP	21 26 12.3 U	0.9	18.7		ePS	40			
							eSS	46 31			
10	SOD	eP	00 17 53				ePKKP	57			
	KJN	iP	00 17 52.8	1.0	12.2		SOD	iP	22 29 26.5		
10	SOD	iP	00 56 16.9				eSKS	39 47			
	KJN	iP	00 56 23.1	0.5	7.5		eS	40 08			
	KEV	iP	00 56 10.8	0.7	17.0		e	36			
10	KJN	iP	06 14 32.2	0.8	11.9		ePKKP	47 03			
10	NUR	eP	09 08 58	0.6	6.2		KJN	iP	22 29 26.9	0.9	10.8
	KJN	eP	09 09 14				eSKS	39 48			
10	NUR	iP	09 13 43.0 D	0.9	62.7		eS	40 10			
	SOD	eP	09 13 24				ePS	41 22			
	KJN	iP	09 13 30.7	0.6	9.7		ePKKP	47 02			
10	NUR	eP	09 08 58	0.6	6.2		KEV	iP	22 29 24.0	0.9	60.6
	KJN	eP	09 09 14				i	30 54.9			
10	NUR	iP	09 13 43.0 D	0.9	62.7		eSKS	39 42			
	SOD	eP	09 13 24				H:	22 16 44.8			
	KJN	iP	09 13 30.7	0.6	9.7			5.0 N, 127.4 E, 146 km (R)			
								Talau Islands			
10	NUR	iP	18 04 50.2 U	1.0	19.8	10	NUR	eP	23 35 19		
	eLQ		18 20				i	36 13.0			
	SOD	iP	18 04 47.4 U				SOD	eP	23 34 29		
	KJN	iP	18 04 40.4 U	1.1	31.7		i	31.6			
	KEV	iP	18 04 50.0 U	0.9	34.6		KJN	eP	23 34 54	1.0	7.5
	H:	17 55 42.9					KEV	eP	23 34 19		
		31.8 N, 93.1 E, 71 km					H:	23 25 09.1			
	Tibet							59.1 N, 153.8 W, 33 km (R)			
								Alaska aftershock			

June		T	A	June		T	A
	SOD ipPKP 21 47 01.0 U			12	NUR eP 13 26 20	0.8	12.9
	ipPKP 32.7				SOD eP 13 26 01		
	iPP 50 08.9			12	NUR iP 16 08 37.0	0.8	36.0
KJN	ePKP 21 46 56	0.9	30.0		i 39.0 U		
	epPKP 47 26				ipP 09 26.0		
	ePP 49 31				e 10 37		
KEV	ePKP 21 47 01				eS 18 50		
	ePP 50 19				eSP 19 50		
	H: 21 28 08.2				e 20 08		
	55.9 S, 27.7 W, 135 km (R)				eSS 24 24		
	Sandwich Islands				SOD iP 16 08 26.0		
					i 27.7 U		
11	NUR eP 22 30 15	1.2	28.5		epP 09 15		
	SOD eP 22 29 35			KJN	iP 16 08 26.7 D	0.7	102.4
	i 39.0 U				epP 09 16		
	KJN eP 22 29 55			KEV	eP 16 08 22		
	i 58.6 U	0.9	24.3		i 24.0 U	0.7	21.4
	KEV eP 22 29 21	1.0	18.6		e(pP) 09 24		
	i 25.9 U				H: 15 56 21.3		
	H: 22 18 19.8				11.4 N, 124.9 E, 183 km		
	40.3 N, 126.5 W, 33 km (R)				Philippine Islands		
	Northern California			12	NUR iP 18 30 35.7	0.8	47.5
					i 43.8 D		
12	NUR eS 07 55 46				e 31 07		
	eLQ 07 56.8				iSKP 33 21.9		
	SOD eP 07 52 33				iPKS 34 17.6		
	H: 07 46 23.6			SOD	ePKP 18 30 19		
	37.5 N, 30.4 E, 33 km (R)				iSKP 33 05.4		
	Western Turkey				i 10.8		
				KJN	ePKP 18 30 22		
12	NUR eP 11 01 06				i 25.9	0.5	20.5
	SOD eP 11 00 54				iSKP 33 12.4		
					ePKS 34 07		
12	NUR ePP 11 08 30			KEV	iPKP 18 30 18.9		
	eSKS 14 50				iSKP 32 59.2		
	ePS 17 42				H: 18 12 20.5		
	ePPS 18 44				26.5 S, 178.3 E, 648 km		
	eSS 23 24				South of Fiji Islands		
	eSSS 26 48			12	KJN eP 18 41 56	1.1	8.1
	e 30 44						
	eLQ 11 35.0			12	KJN eP 19 03 49		
	eLR 11 39.5				H: 18 53 34		
SOD	eP 11 03 57				45.5 N, 149.9 E, 45 km (R)		
KJN	eP 11 03 59				Kurile Islands		
KEV	ePP 11 08 08			13	NUR eP 03 29 51		
	eSKS 14 31				e 33 36		
	H: 10 50 09.1				e 34 44		
	2.1 S, 141.1 E, 33 km (R)				cont.		
	New Guinea						

June				June			
		T	A			T	A
	eSS	23	13 12				
	eSSS		18 32				
	e		22 26				
	eLQ	23	31.5				
KJN	ePKP	22	51 05				
	e		13	0.7	6.8		
	H:	22	31 53.5				
			27.6 S, 178.3 W, 94 km				
			Kermadec Islands				
13	NUR	eP	23 33 08				
	SOD	eP	23 32 21				
	KJN	eP	23 32 43				
	KEV	eP	23 32 03				
	H:	23	23 04.0				
			59.2 N, 136.8 W, 33 km (R)				
			Southeastern Alaska				
14	NUR	eP	01 07 28	0.5	5.3		
	SOD	eP	01 06 48				
	KJN	eP	01 07 00				
	H:	00	56 56.8				
			48.2 N, 154.3 E, 40 km (R)				
			Kurile Islands				
14	NUR	ePKP	01 39 46				
	KJN	ePKP	01 39 31				
	H:	01	19 57.7				
			27.5 S, 177.5 W, 33 km (R)				
			Kermadec Islands				
14	NUR	eP	05 33 15				
14	NUR	iP	12 20 48.8 D				
	i		55.2	1.5	479.4		
	i		21 47.4				
	e		22 55				
	eS		25 06				
	e		13				
	eLQ	12	26				
	eLR	12	26.8				
SOD	eP	12	21 43				
	i		49.3				
	i		22 46.3				
KJN	iP	12	21 12.5 D	1.0	64.3		
	i		19.3				
	eS		25 54				
KEV	iP	12	22 03.0	1.2	38.9		
	eS		27 14				
	e		28 16				
	eLQ	12	31.5				
	eLR	12	32.5				
	H:	12	15 31.3				
			38.0 N, 38.5 E, 8 km				
			Southeastern Turkey				
14	NUR	eP	12 43 18				
	SOD	eP	12 44 21				
	KJN	eP	12 43 44	1.0	10.9		
	KEV	eP	12 44 41				
	H:	12	38 03.7				
			38.1 N, 38.3 E, 31 km				
			Southern Turkey				
14	NUR	eP	16 46 55				
	KJN	eP	16 47 14				
14	NUR	eP	17 30 43				
	SOD	eP	17 29 57				
	H:	17	20 17.5				
			56.7 N, 152.1 W, 33 km (R)				
			Sea of Okhotsk				
15	NUR	ePKP	00 15 20				
	SOD	ePKP	00 15 33				
	KJN	ePKP	00 15 30	1.0	7.5		
	H:	23	56 29.9				
			56.1 S, 25.0 W, 33 km (R)				
			Sandwich Islands				
15	NUR	eP	00 17 20			1.1	30.9
	e		46				
	e		18 50				
	ePP		20 18				
	ePPP		22 04				
	eS		27 00				
	e		28 00				
	eSS		31 48				
	eLQ	00	38.2				
SOD	eP	00	17 24				
	i		18 39.7				
	ePP		20 24				
KJN	eP	00	17 17	1.2	33.0		
	i		36.7				
	e		18 07				
	ePP		20 04				
	eS		26 59				
KEV	iP	00	17 29.0	0.7	13.6		
	ePP		20 16				
	ePPP		22 22				
	eS		27 20				
	e		30 18				
	eSS		32 45				
	eSSS		36 18				
	eLQ	00	40.8				
	eLR	00	43.5				
	H:	00	05 31.1				
			5.4 N, 97.0 E, 33 km (R)				
			Northern Sumatra				

June						June				
				T	A					
16	SOD eP	05 00 55				16	NUR iP	05 57 33.8	0.8	12.9
	KJN eP	05 01 05					SOD iP	05 57 02.3		
	H:	04 50 33					KJN iP	05 57 13.0 U	0.7	21.9
		39.0 N, 139.0 E, 33 km (R)					H:	05 46 37.8		
		Honshu, Japan						38.5 N, 138.9 E, 33 km (R)		
								Honshu, Japan		
16	NUR eP	05 04 07	0.7	7.6		16	NUR iP	06 28 05.0 D	0.9	21.6
	SOD eP	05 03 35					SOD iP	06 27 33.7		
	KJN iP	05 03 45.7 U	1.0	25.1			KJN iP	06 27 44.1 D	1.0	38.9
	H:	04 53 08.8					H:	06 17 07.8		
		38.5 N, 138.5 E, 20 km (R)						38.4 N, 138.9 E, 28 km		
		Honshu, Japan						Honshu, Japan		
16	NUR eP	05 06 46				16	KJN eP	06 44 05		
	SOD iP	05 06 14.6					H:	06 33 30		
	KJN eP	05 06 26	0.7	11.3				38.6 N, 138.5 E, 33 km (R)		
	H:	04 55 46.8						Honshu, Japan		
		38.3 N, 138.7 E, 18 km								
		Honshu, Japan								
16	NUR eP	05 09 41				16	NUR iP	07 04 02.8 D	1.3	91.0
	SOD eP	05 09 10					e	47		
	KJN eP	05 09 21	0.9	11.0			ePP	06 33		
	H:	04 58 46.0					SOD iP	07 03 31.2 D		
		38.7 N, 138.9 E, 33 km (R)					KJN iP	07 03 42.3 D	1.0	119.9
		Honshu, Japan					ePP	06 00		
							H:	06 53 05.0		
								38.7 N, 139.0 E, 15 km (R)		
								Honshu, Japan		
16	NUR eP	05 22 29	0.9	13.3		16	NUR iP	07 19 57.7 U	0.9	28.2
	SOD eP	05 21 58					SOD iP	07 19 25.6 U		
	KJN iP	05 22 09.2 D	0.7	11.3			KJN iP	07 19 36.7 U	1.0	46.6
	H:	05 11 35.7					H:	07 09 00.7		
		39.0 N, 139.0 E, 33 km						38.3 N, 139.0 E, 33 km (R)		
		Honshu, Japan						Honshu, Japan		
16	SOD iP	05 32 35.5				16	NUR iP	07 25 55.7 U	0.7	92.7
	KJN iP	05 32 46.8 D	0.7	16.6			i	26 03.0		
	H:	05 22 09.3					SOD eP	07 25 25		
		38.7 N, 139.1 E, 15 km (R)					KJN iP	07 25 35.3 U	0.8	119.3
		Honshu, Japan					i	26 16.2		
							H:	07 14 57.1		
								38.5 N, 139.2 E, 16 km		
								Honshu, Japan		
16	NUR eP	05 48 47	0.8	12.9		16	NUR eP	07 28 16		
	SOD eP	05 48 07					SOD eP	07 27 48		
	KJN eP	05 48 28	0.6	7.6			KJN eP	07 27 56	0.5	12.6
	H:	05 37 53					H:	07 17 21.5		
		38.8 N, 138.9 E, 33 km (R)						38.8 N, 139.1 E, 20 km (R)		
		Honshu, Japan						Honshu, Japan		
16	NUR iP	05 50 18.7	0.8	11.4		16	NUR eP	07 28 16		
	SOD iP	05 49 47.0					SOD eP	07 27 48		
	KJN iP	05 49 57.7 U	0.8	16.6			KJN eP	07 27 56	0.5	12.6
	H:	05 39 24.5					H:	07 17 21.5		
		38.8 N, 139.0 E, 35 km						38.8 N, 139.1 E, 20 km (R)		
		Honshu, Japan						Honshu, Japan		

June				June			
	T	A		T	A		
16	KJN eP	07 38 17		16	SOD eP	20 06 18	
	H:	07 27 40.3			KJN iP	20 06 24.8 U	1.0 15.3
		38.9 N, 139.0 E, 15 km (R)			H:	19 54 46.5	
		Honshu, Japan				19.6 N, 66.8 W, 30 km	
						Puerto Rico	
16	KJN eP	08 01 49		16	KJN eP	22 33 01	
	H:	07 51 10.4					
		38.4 N, 138.9 E, 15 km (R)		17	KJN eP	06 48 04	1.2 21.8
		Honshu, Japan					
16	NUR eP	08 26 11		17	KJN eP	06 50 04	
	SOD eP	08 25 40					
	KJN eP	08 25 51	1.2 27.5	17	KJN eP	09 06 13	1.3 29.6
	H:	08 15 14.2					
		38.8 N, 138.8 E, 15 km (R)		17	KJN iP	13 10 55.3 D	0.9 12.8
		Honshu, Japan					
16	KJN ePKP	08 53 20		17	NUR eP	13 41 36	
	H:	08 34 08.7			eS	44 27	
		22.0 S, 175.8 W, 33 km (R)			KJN eP	13 42 22	
		Tonga Islands			H:	13 38 16	
						45.7 N, 26.5 E, 145 km	
						Rumania	
16	SOD eP	09 20 47		17	NUR eP	15 21 39	
	KJN iP	09 20 58.3	0.7 9.2		SOD eP	15 21 08	
	H:	09 10 22.1			KJN iP	15 21 19.0 D	1.0 22.9
		38.4 N, 139.1 E, 33 km (R)			H:	15 10 44.3	
		Honshu, Japan				38.7 N, 139.0 E, 27 km	
16	KJN eP	09 47 38				Honshu, Japan	
				17	NUR iSKP	22 38 53.0	
16	NUR eP	10 33 40			SOD eSKP	22 38 34	
	SOD iP	10 32 42.8			KJN ePKP	22 35 59	
	KJN eP	10 33 06	1.0 12.2		eSKP	38 42	
	H:	10 23 39.7			H:	22 17 37.9	
		61.2 N, 146.8 W, 40 km (R)				23.8 S, 179.7 W, 504 km	
		Alaska aftershock				Fiji Islands	
16	KJN eP	11 22 34		18	SOD eP	03 44 41	
	H:	11 11 17.4			KJN eP	03 44 22	
		38.8 N, 138.7 E, 33 km (R)		18	NUR iP	18 12 25.1 U	0.9 36.5
		Honshu, Japan			eS	21 09	
					eScS	22 21	
16	KJN eP	11 53 44			eSS	25 20	
	H:	11 43 05.6			eLR	18 32 5	
		38.6 N, 138.8 E, 15 km (R)			SOD eP	18 11 45	
		Honshu, Japan			KJN eP	18 12 00	1.3 29.6
					i	14.4	
16	NUR eP	18 37 09			KEV eP	18 11 31	
	H:	18 26 09			eS	19 31	
		38.4 N, 138.9 E, 9 km			H:	18 01 47.6	
		Honshu, Japan				47.5 N, 154.9 E, 33 km (R)	
						Kurile Islands	

June							June							
				T	A					T	A			
18	NUR	ePKP	20 52 56	1.1	14.3	19	KJN	eP	12 19 29					
		eSS	21 12 36					H:	12 08 53.6					
		eSSS	17 08						39.0 N, 139.1 E, 15 km (R)					
	SOD	ePKP	20 53 01						Honshu, Japan					
	KJN	iPKP	20 53 00.7	1.2	25.2	19	SOD	eP	13 37 46					
		H:	20 33 53.3					KJN	eP	13 37 53				
			39.3 S, 74.7 W, 26 km					H:	13 25 52					
			Chile						22.2 N, 143.3 E, 121 km (R)					
									Mariana Islands					
19	NUR	eP	00 54 59			19	KJN	eP	21 17 57					
		e	58 36					H:	21 07 23.6					
		eS	40						38.8 N, 139.0 E, 33 km (R)					
		eLQ	00 59.5						Honshu, Japan					
	SOD	iP	00 56 10.0 U			20	NUR	eP	02 49 22	0.8	7.2			
		i	46.8					SOD	iP	02 48 34.2				
	KJN	iP	00 55 34.2 U	1.0	32.7			e	42					
		eS	01 00 13					KJN	eP	02 48 53				
	KEV	eP	00 56 26					KEV	eP	02 48 25				
		iPP	57 20.2					H:	02 39 04.0					
		H:	00 50 24.4						57.7 N, 151.9 W, 34 km					
			40.7 N, 32.9 E, 33 km (R)						Alaska aftershock					
			Turkey											
19	NUR	eP	01 44 34	0.9	13.4	20	NUR	eP	04 25 25					
	SOD	eP	01 43 51					SOD	eP	04 24 52				
	KJN	eP	01 44 07					KJN	eP	04 25 16	0.7	6.0		
		H:	01 34 10.9					H:	04 15 47.0					
			56.8 N, 151.5 W, 33 km (R)						60.9 N, 142.9 W, 40 km					
			Alaska aftershock						Southern Alaska					
19	NUR	iP	10 16 31.4	1.2	51.3	20	KJN	eP	08 04 18	1.2	18.5			
		eS	25 20											
		eSS	29 34											
	SOD	eP	10 15 59			20	KJN	eP	08 33 46	0.9	9.2			
	KJN	iP	10 16 10.7 U	1.0	56.7									
		i	14.9											
	KEV	eP	10 15 50	1.2	59.8	20	NUR	eP	11 45 23					
		H:	10 05 36.4					SOD	eP	11 44 51				
			38.8 N, 139.3 E, 30 km					KJN	eP	11 45 02	0.7	8.3		
			Honshu, Japan					KEV	eP	11 44 40				
								H:	11 34 26.3					
									38.5 N, 139.1 E, 32 km					
									Honshu, Japan					
19	NUR	eP	10 46 07	1.5	51.4	20	NUR	eP	12 17 06					
		i	12.2	1.3	78.4									
	SOD	eP	10 45 53											
	KJN	eP	10 45 51											
		i	59.3											
	KEV	eP	10 45 56	0.9	26.3	20	NUR	eP	17 10 02	1.0	22.0			
		H:	10 34 33.6					SOD	iP	17 09 28.1 U				
			22.6 N, 121.0 E, 33 km (R)					KJN	iP	17 09 40.2 U				
			Taiwan					ePP	11 57					

cont.

June				T		A		June				T		A	
22	NUR	ePKP	13 59 20	1.3		23.8				iS	45	18.1			
		iSKP	14 02 37.6							eP'P'	02 05 46				
	SOD	ePKP	13 59 11						KEV	iP	01 36 27.9	U	0.9	2073.7	
		eSKP	14 02 20							iPP	38 45.0				
	KJN	ePKP	13 59 09	1.0		5.5				e	39 02				
		eSKP	14 02 27							ePPP	40 08				
	H: 13 40 02.8									eS	44 26				
	25.1 S, 177.4 W, 121 km									e	32				
	Fiji Islands									eScS	45 14				
										eSS	48 34				
22	NUR	iPKP	14 36 18.5	1.0		14.0				eP'P'	02 06 05				
	KJN	iPKP	14 36 11.6	0.8		7.9				eLQ	01 51.0				
	H: 14 17 36.5									eLR	01 54.2				
	12.5 S, 166.7 E, 143 km									H: 01 26 37.0					
	Santa Cruz Islands									43.3 N, 146.1 E, 77 km (R)					
										Kurile Islands					
22	NUR	eP	19 20 26						23	NUR	eP	02 14 08			
	SOD	iP	19 20 43.3							KJN	eP	02 13 51			
	KJN	eP	19 20 27	0.7		7.6									
	KEV	eP	19 20 52	0.7		8.0			23	NUR	eP	02 29 53	0.9		11.8
	Moscow:									SOD	eP	02 29 08			
	H: 19 13 33									KJN	eP	02 29 38			
	36.7 N, 70.2 E, 207 km									KEV	eP	02 28 49	0.6		7.9
	Hindu Kush									H: 02 19 06.7					
										53.4 N, 164.3 W, 33 km (R)					
										Unimak Island					
22	NUR	iP	21 35 44.1	D	0.9	47.0			23	NUR	eP	02 36 16	1.0		18.0
		i	57.9							SOD	eP	02 35 40			
		eS	45 44							KJN	eP	02 35 54	0.8		8.1
	SOD	iP	21 35 33.1	D					23	NUR	eP	02 44 39			
		i	46.1												
	KJN	iP	21 35 33.1	U	0.6	60.8			23	KJN	eP	02 52 50	0.9		6.6
		i	46.5		1.0	88.3									
		eS	45 25						23	SOD	iP	04 43 24.8	D		
		e	47							KJN	iP	04 43 16.1	D	0.8	12.1
	KEV	iP	21 35 30.1	D	0.8	18.1				H: 04 32 19					
		i	43.7		0.9	26.2				13.9 N, 94.7 E, 33 km (R)					
	H: 21 23 33.6									Andaman Sea					
	13.6 N, 120.3 E, 56 km														
	Philippine Islands														
23	NUR	iP	01 37 17.1	U	1.0	2590.0			23	NUR	iP	05 36 16.5	D	1.0	40.0
		ePP	39 43								i	27.6			
		ePPP	41 18							SOD	iP	05 35 30.1	D		
		eS	45 53							KJN	eP	05 35 52	0.8		9.7
		e	58							KEV	iP	05 35 12.6	D	0.6	22.3
		eP'P'	02 05 54							H: 05 25 36.8					
	SOD	iP	01 36 40.2	U						53.9 N, 163.2 W, 60 km (R)					
		iS	44 50							Unimak Island					
		eP'P'	02 05 41						23	NUR	eP	19 23 07			
		e	06 20							SOD	eP	19 23 14			
	KJN	iP	01 36 53.9	U						cont.					
	cont.									cont.					

June				T	A	June				T	A		
	KJN	eP	19 23 15	0.8	11.9	KJN	eP	22 31 50					
		i	32.7				H:	22 19 38.2					
		i	24 38.7					16.1 N, 145.3 E, 293 km					
	KEV	eP	19 23 20					Mariana Islands					
		H:	19 10 11.4										
			3.0 N, 126.6 E, 33 km (R)			26	SOD	ePKP 01 51 52					
			Talaud Islands					H: 01 32 51.5					
								55.9 S, 27.6 W, 55 km					
24	SOD	eP	02 07 34					Sandwich Islands					
	KJN	eP	02 07 16										
	KEV	eP	02 07 47			26	NUR	eP 04 56 54	0.7	14.9			
								SOD eP 04 56 22					
24	NUR	eP	05 30 47					KJN iP 04 56 32.8 D	0.8	12.1			
	KJN	eP	05 30 34					H: 04 45 56.9					
								38.7 N, 138.9 E, 20 km (R)					
24	NUR	eP	06 36 05					Honshu, Japan					
	SOD	eP	06 35 33										
	KJN	eP	06 35 44	0.9	11.9	26	NUR	eS 07 13 33					
		H:	06 25 00					eLg 14 24					
			37.9 N, 141.3 E, 33 km (R)					SOD eP 07 11 16					
			Honshu, Japan					eS 12 11					
24	SOD	eP	09 16 39					eLg 34					
								KJN eP 07 11 48					
24	NUR	eP	13 07 30	1.0	12.0			eS 12 58					
	SOD	eP	13 07 06					eLg 13 36					
	KJN	eP	13 07 09					KEV eS 07 12 21					
	KEV	eP	13 06 56					iLg 52.0					
		H:	12 56 26.0					<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> According to the Finnish seismograph station net: H: 07 10 14 67.7 N, 16.0 E Lofoten </div>					
			32.2 N, 129.4 E, 48 km										
			Kyushu, Japan										
25	SOD	eP	00 49 12										
	KJN	eP	00 48 46			26	SOD	eP 09 52 19					
25	NUR	iP	11 33 05.1	0.8	21.4								
	SOD	iP	11 32 08.3			26	KJN	eP 15 25 11	0.7	4.6			
		i	16.3										
	KJN	eP	11 32 34			27	NUR	iP 02 36 12.0	1.5	70.1			
		i	40.9	0.8	17.7			i 22.8	1.2	71.3			
	KEV	eP	11 31 50	0.7	9.4			ePP 37 35					
		i	58.3	1.2	41.9			eS 42 05					
		H:	11 23 00.6					ePcS 24					
			60.3 N, 149.1 W, 70 km					eLQ 02 44.1					
			Alaska aftershock					SOD iP 02 36 18.0 D					
								KJN iP 02 36 07.2 D	1.0	35.5			
25	NUR	eP	12 06 59	0.9	18.2			i 17.5					
								ePP 37 17					
25	SOD	eP	20 35 37					KEV eP 02 36 24	1.2	44.8			
	KJN	eP	20 35 01					i 37 25.0					
								eS 42 26					
25	NUR	eP	22 32 05					eSS 45 14					
	SOD	eP	22 31 45					H: 02 28 57.1					
								40.4 N, 77.5 E, 33 km (R)					
								Sinkiang, China					

cont.

June						June				
				T	A				T	A
27	NUR	eP	09 03 09						eSS	24 14
	SOD	eP	09 03 08						eLQ	13 34.0
	KJN	eP	09 03 07						eLR	13 39.2
	H: 08 50 29.1								H: 12 51 34.6	
	16.5 N, 85.7 W, 28 km								1.7 S, 149.6 E, 7 km	
	Honduras								New Ireland	
27	NUR	eP	16 56 06	1.0	11.9	28	NUR	iPKP	15 10 44.1 U	0.7 86.4
		eS	17 05 32					eS	20 28	
		eSS	10 20				SOD	iPKP	15 10 33.8 D	
		eSSS	13 44				KJN	iPKP	15 10 37.3 D	0.8 62.4
		eLQ	17 16.5				KEV	iPKP	15 10 30.4 D	0.7 28.1
		eLR	17 18.5				H: 14 52 08.4			
	SOD	eP	16 56 29				13.2 S, 167.1 E, 215 km			
	KJN	eP	16 56 11	1.2	12.0		New Hebrides Islands			
	H: 16 43 47.0					28	NUR	eP	15 29 22	
	11.5 S, 13.8 W, 33 km (R)						SOD	eP	15 29 59	
	Ascension Island						KJN	eP	15 29 49	0.6 4.6
27	NUR	eP	22 06 18				e	56		
	H: 21 55 39						KEV	eP	15 30 10	
	46.7 N, 152.2 E, 33 km						H: 15 22 43			
	Kurile Islands						37.4 N, 14.3 W, 33 km (R)			
							Off coast of Portugal			
27	NUR	eP	23 34 37	0.8	5.7	28	NUR	eP	17 18 33	
28	NUR	iP	11 20 51.1 D	0.9	28.2		SOD	eP	17 18 47	
		i	54.0				KJN	eP	17 18 34	
	SOD	iP	11 21 49.8				H: 17 07 07.0			
	KJN	eP	11 21 19	0.5	12.3		3.5 N, 32.4 W, 33 km (R)			
	H: 11 15 22						North Atlantic Ocean			
	34.6 N, 32.2 E, 81 km					28	NUR	iP	17 39 20.5	1.1 42.3
	Mediterranean Sea						eS	48 36		
28	NUR	ePP	13 10 50				eSS	53 04		
		eSKS	16 39				eSSS	56 16		
		eS	17 38				eLQ	17 56.5		
		ePS	19 40				eLR	18 00.2		
		ePPS	20 36				SOD	iP	17 39 38.7 U	
		e	23 10				i	44.8		
		eSS	25 14				KJN	iP	17 39 31.4	1.2 16.8
		eSSS	29 38				i	43.1		
		e	32 46				KEV	eP	17 39 44	1.0 21.0
		eLQ	13 37.5				i	50.8		
		eLR	13 43				H: 17 27 59.8			
	SOD	iP	13 05 43.7 D				4.0 N, 32.4 W, 33 km (R)			
	KJN	eP	13 05 48				North Atlantic Ocean			
	KEV	e	13 08 50			28	NUR	iP	18 33 33.1	0.9 16.6
		ePP	09 49				SOD	eP	18 32 47	
		eSKS	16 14				KJN	iP	18 33 08.9	1.0 15.3
		eSP	18 46				e	46		
		eSPP	19 54				KEV	eP	18 32 30	0.8 11.9
	cont.						cont.			

June		T	A	June		T	A
	i		43.1	29	NUR eP	20 49 37	1.2 31.0
	H: 18 22 46.3			29	NUR eP	23 47 45	
	53.2 N, 162.0 W, 39 km				e	58	
	Unimak Island				KJN eP	23 47 28	
28	NUR iP	19 19	21.2 1.0 81.2	30	NUR ePKP	05 46 41	0.9 36.1
	i		29.0		epPKP	47 35	
	SOD iP	19 18	33.3 D		KJN ePKP	05 46 28	
	i		41.6		H: 05 27 28.7		
	KJN iP	19 18	56.5 D 1.0 62.1		29.8 S, 178.7 W, 214 km		
	i		19 05.0		Kermadec Islands		
	KEV iP	19 18	15.6 U 0.8 37.2				
	i		23.1	30	SOD eP	05 56 14	
	H: 19 09 05.4				H: 05 46 53		
	58.3 N, 150.2 W, 23 km				59.1 N, 154.0 W, 33 km (R)		
	Alaska aftershock				Alaska aftershock		
28	SOD eP	20 05	46	30	NUR iP	10 28 33.6 D 0.6 16.1	
	H: 19 56 25.1				SOD eP	10 28 01	
	59.1 N, 153.1 W, 33 km (R)				KJN eP	10 28 14 0.6 7.6	
	Alaska aftershock				H: 10 17 51.1		
29	NUR iPcP	00 05	14.2 0.8 15.7		44.1 N, 149.6 E, 33 km (R)		
	KJN ePKP	00 05	02		Kurile Islands		
	H: 23 45 37.9			30	NUR eP	12 33 15 1.3 30.3	
	30.7 S, 178.0 W, 29 km				eS	36 09	
	Kermadec Islands				e	12	
29	NUR iP	07 31	17.5 D 0.9 31.5		SOD eP	12 34 39	
	SOD iP	07 30	27.9		KJN iP	12 34 03.9 U 0.8 15.0	
	KJN iP	07 30	51.7 1.0 31.6		eS	37 43	
	iPcP	31	57.2		KEV eP	12 35 06 1.0 20.7	
	eS	38 13			H: 12 30 03.3		
	KEV eP	07 30	09 1.0 34.8		47.8 N, 16.0 E, 33 km (R)		
	eS	37 24			Eastern Austria		
	eSS	40 43		30	NUR eP	13 59 42 1.7 92.6	
	H: 07 21 32.8				e	14 01 51	
	62.7 N, 152.0 W, 33 km (R)				e	02 22	
	Southern Alaska				ePP	03 25	
29	NUR iP	10 53	11.9 D 0.8 15.7		e	32	
	SOD iP	10 52	24.8 D		eSKS	10 16	
	H: 10 42 46.1				eS	38	
	56.7 N, 151.4 W, 33 km (R)				eSP	12 05	
	Alaska aftershock				eSS	17 00	
29	KJN iP	15 47	24.4 0.7 6.8		SOD eP	13 59 35	
29	SOD iP	18 06	30.2		ePKKP	14 16 37	
29	SOD eP	19 13	54		KJN iP	13 59 25.8 1.1 30.0	
	H: 19 04 50				i	31.8	
	61.0 N, 143.7 W, 33 km (R)				ePP	14 03 07	
	Alaska aftershock				e	04 04	

cont.

July				July			
		T	A			T	A
1	SOD eP	02 47 42					
	H:	02 38 19.0					
		59.8 N, 148.9 W, 40 km					
		Alaska aftershock					
1	NUR iP	02 58 03.2 U	1.0	29.7			
	ePP	03 00 19					
	ePPP	02 10					
	eS	06 34					
	eSS	10 46					
	eSSS	13 40					
	eLQ	03 15.3					
	eLR	03 17.4					
	SOD iP	02 57 25.9 U					
	KJN iP	02 57 39.7 U	1.3	29.6			
	i	42.4					
	ePP	03 00 02					
	KEV iP	02 57 13.0 D	0.9	26.2			
	H:	02 47 33.9					
		46.3 N, 146.9 E, 33 km (R)					
		Kurile Islands					
1	NUR iP	06 15 53.2	1.0	15.8			
	SOD eP	06 14 59					
	i	15 04.9					
	KJN eP	06 15 28	1.0	18.5			
	KEV eP	06 14 40					
	H:	06 05 33.7					
		58.9 N, 151.7 W, 20 km					
		Alaska aftershock					
1	SOD eP	07 27 10					
	KJN eP	07 27 19					
	H:	07 16 32					
		35.4 N, 140.1 E, 74 km					
		Eastern Honshu, Japan					
1	NUR eP	09 57 27	0.6	7.4			
	e	40					
	ePPP	10 01 23					
	eS	06 12					
	eScS	07 22					
	e	09 22					
	eSS	10 44					
	eSSS	13 18					
	eLQ	10 16					
	eLR	10 18					
	SOD eP	09 56 49					
	KJN eP	09 57 02					
	i	03.8	0.7	12.1			
		cont.					
	KEV eP	09 56 36	1.0	12.1			
	ePPP	10 00 15					
	eS	04 38					
	eScS	06 23					
	eSS	08 50					
	H:	09 46 49.6					
		45.2 N, 150.3 E, 75 km					
		Kurile Islands					
1	NUR iP	10 03 17.3 D	0.6	9.9			
	SOD eP	10 02 39					
	ePcP	03 24					
	KJN iP	10 02 53.6	0.8	12.6			
	KEV eP	10 02 26	1.0	18.9			
	H:	09 52 31.8					
		44.6 N, 149.9 E, 33 km (R)					
		Kurile Islands					
1	NUR iP	13 41 55.5 D	1.0	39.6			
	SOD eP	13 41 09					
	KJN iP	13 41 31.0 D	1.0	24.4			
	KEV eP	13 40 52	0.9	21.0			
	H:	13 31 06.2					
		52.7 N, 168.2 W, 33 km (R)					
		Fox Islands					
1	SOD eP	13 46 18					
	KJN iP	13 46 18.8					
	H:	13 33 10					
		1.8 N, 127.1 E, 33 km (R)					
		Molucca Passage					
1	NUR iP	16 24 04.1 D	0.7	24.5			
	KJN ePKP	16 23 52					
	H:	16 04 32					
		28.9 S, 177.4 W, 33 km (R)					
		Kermadec Islands					
1	NUR eP	20 18 44					
	eS	26 04					
	eLQ	20 31.7					
	eLR	20 34.4					
	SOD eP	20 18 50					
	KJN eP	20 18 53	1.2	16.8			
	H:	20 09 31.2					
		30.9 N, 41.5 W, 33 km (R)					
		North Atlantic Ocean					
1	NUR iP	22 57 42.0 U	0.9	63.8			
	ePP	23 00 31					
		cont.					

July

T A

SOD iP 22 57 14.8 U
ePP 59 47
KJN iP 22 57 22.7 D 1.1 87.8
iPP 23 00 02.3
KEV iP 22 57 06.1 U 1.0 78.4
ePP 59 38
H: 22 46 18.7
31.1 N, 139.6 E, 147 km
South of Honshu, Japan

1 NUR ePP 23 07 40
eSKS 13 54
e 15 50
eSP 16 42
eSS 22 40
esSS 23 20
e 25 16
KEV eSP 23 16 48
H: 22 49 23.4
14.3 S, 73.1 W, 139 km (R)
Southern Peru

1 NUR eP 23 59 06

2 NUR iP 01 29 06.0 D 1.0 34.0
eS 37 16
eSS 41 20
eLQ 01 45.0
eLR 01 46.1
SOD iP 01 28 18.1 D
i 23.0 D
KJN iP 01 28 42.0 D 1.0 38.2
i 47.0 D
ePcP 29 40
KEV eP 01 28 00
i 04.6
eS 35 15
eSS 39 20
H: 01 19 02.7
60.1 N, 146.0 W, 14 km (R)
Alaska aftershock

2 SOD iP 05 16 20.8 U
KJN eP 05 16 19 1.1 12.2
i 23.1 U
H: 05 03 35
1.2 N, 118.9 E, 133 km
Macassar Strait

July

T A

2 NUR eP 06 46 03 0.7 7.5
eSS 59 20
eLQ 07 03.5
eLR 07 06.8
KJN eP 06 45 38
H: 06 35 18
53.4 N, 167.8 W, 45 km (R)
Fox Islands

2 NUR eP 12 24 22
SOD iP 12 24 15.6 D
KJN iP 12 24 12.9
epP 25 03
H: 12 11 22
1.0 N, 124.3 E, 160 km
Molucca Sea

2 NUR eS 17 24 00
eScS 54
eSS 28 34
eSSS 31 40
eLQ 17 33.8
eLR 17 37
SOD eP 17 14 11
KJN eP 17 14 31
KEV eS 17 22 22
eSS 26 24
H: 17 03 42.4
47.7 N, 128.3 W, 33 km (R)
Off coast of Washington

2 SOD eP 17 28 07
KJN eP 17 28 29 0.9 3.8
H: 17 17 34.4
47.7 N, 128.8 W, 14 km
Off coast of Washington

3 KJN eP 01 36 03 0.8 4.8
H: 01 23 02
6.5 S, 105.3 E, 57 km
Sumatra

3 SOD eP 05 18 05
H: 05 05 33.8
19.4 N, 104.3 W, 102 km
Jalisco, Mexico

3 NUR eP 08 27 31 0.9 10.1
KJN iP 08 27 09.6 U 1.0 23.3
H: 08 16 33.7
38.2 N, 138.9 E, 33 km (R)
Honshu, Japan

July						July			
				T	A				
						T			A
3	SOD	eP	14 18 26						
	KJN	eP	14 18 14						
	KEV	iP	14 18 35.0 D	0.9	20.8				
	H: 14 10 33.0								
	33.9 N, 74.5 E, 94 km								
	Kashmir								
3	NUR	iP	19 27 28.1 U	0.9	13.4	5	NUR	eP	04 58 22
	SOD	iP	19 28 14.5 U					eS	05 02 26
	KJN	iP	19 27 50.2 U	1.0	28.3		SOD	eP	04 59 26
	KEV	iP	19 28 30.7	1.0	31.5		KJN	eP	04 59 00
	H: 19 18 34.0						BCIS:		
	11.0 N, 39.3 E, 60 km						H: 04 53 10		
	Central Ethiopia						37 N, 20 E		
							Ionian Sea		
4	NUR	iP	11 02 43.2	0.7	45.2	5	NUR	eP	08 13 00
		eSKS	13 14				SOD	eP	08 12 29
		ePS	15 04				KJN	iP	08 12 39.3 D
	SOD	iP	11 02 23.5 D				H: 08 01 59.3		
		e	03 38				35.8 N, 140.6 E, 156 km		
	KJN	iP	11 02 27.5 D	1.1	94.5		Honshu, Japan		
	KEV	iP	11 02 17.3 D	1.2	152.5	5	NUR	iP	16 57 09.1
	H: 10 49 28.8						SOD	eP	16 56 47
	11.7 N, 144.5 E, 33 km						KJN	eP	16 56 49
	Mariana Islands							e	57 01
4	NUR	eP	11 15 35						0.8 5.5
		eS	19 06			5	NUR	iP	18 09 02.4
	SOD	eP	11 16 48				SOD	eP	18 08 12
	KJN	eP	11 16 15	0.8	5.5		KJN	iP	18 08 36.5
		i	35.2				KEV	iP	18 07 53.5 U
	KEV	eP	11 17 03				H: 17 58 59.7		
	H: 11 11 20.0						60.2 N, 146.2 W, 27 km		
	42.2 N, 23.6 E, 10 km						Alaska aftershock		
	Southwestern Bulgaria								
5	NUR	eP	00 24 47	0.8	9.4	5	NUR	eP	18 22 15
	KJN	eP	00 24 22				SOD	eP	18 21 53
							KJN	eP	18 22 04
5	NUR	iP	03 24 29.4 D	0.7	11.6	5	NUR	iP	19 20 41.1
		e	36					e	52
		ePcP	25 12					i	21 49.0
		eS	32 32					e(PP)	23 44
		eScS	34 22					eS	31 05
		eSS	36 28					ePS	32 12
		eLQ	03 38.8					eSS	36 38
		eLR	03 40.5					eSSS	40 08
	SOD	iP	03 23 40.3 D					eLQ	19 43.4
		e	51					eLR	19 47.4
	cont.						cont.		

July

T A

SOD eP 19 20 14
i 23.2
e 49
KJN eP 19 20 31 1.2 55.4
i 47.8
eS 31 02
KEV eP 19 19 58
i 20 10.9
e 43
e 21 04
ePP 23 04
e 25 56
eS 30 06
ePS 53
eSS 35 10
e 36 00
eSSS 38 30
eLQ 19 41.0
eLR 19 45.9
H: 19 07 57.8
26.2 N, 110.2 W, 29 km
Gulf of California

5 SOD eP 22 47 10
H: 22 37 02
44.6 N, 148.7 E, 33 km (R)
Kurile Islands

5 NUR iP 23 46 42.3 D 0.9 53.8
e 57
iPcP 47 13.1
ePPP 50 50
eS 55 24
e 56 10
eSS 24 00 14
eSSS 02 38
eLQ 24 05.1
SOD iP 23 46 04.6 D
i 08.2
e 16
eScS 55 46
KJN iP 23 46 18.8 D 1.0 21.8
e 47 41
e 59 54
KEV eP 23 45 52
i 46 10.0
ePcP 46
e 47 30
ePPP 49 16
eS 53 44

cont.

July

T A

ePS 54 20
e 55 05
eSS 57 54
eLQ 24 00.0
eLR 24 03.5
H: 23 36 01.5
44.8 N, 149.6 E, 54 km (R)
Kurile Islands

5 NUR iP 23 49 52.2 D 0.8 30.2
SOD eP 23 49 15
KJN eP 23 49 29 0.9 13.8
KEV eP 23 49 11
H: 23 39 10.3
44.7 N, 149.6 E, 48 km (R)
Kurile Islands

6 SOD eP 02 20 36
H: 02 08 19.2
26.5 N, 110.2 W, 33 km (R)
Gulf of California

6 NUR eP 02 27 18
ePP 30 38
e 32 05
eS 37 42
ePS 38 56
SOD iP 02 26 54.0 D
ePP 29 47
eScS 37 15
KJN eP 02 27 08
i 28 16.4
ePP 30 30
eS 37 32
ePS 38 20
e 39 55
KEV eP 02 26 43
e 29 22
ePPP 31 32
e 32 34
eS 36 54
ePS 37 30
e 38 38
eSS 41 54
eSSS 45 14
eLQ 02 47.5
eLR 02 52.4
H: 02 14 36.0
26.2 N, 110.4 W, 33 km (R)
Gulf of California

July					July							
			T	A			T	A				
6	NUR	eP	02 38 13			6	NUR	iP	10 20 50.8	0.8	47.5	
	SOD	iP	02 37 51.4					i	57.3			
	KJN	eP	02 38 14	1.1	16.2			ipP	21 13.8			
	KEV	eP	02 37 46					isP	26.2			
	H: 02 25 36							ePP	22 17			
	26.2 N, 110.1 W, 33 km (R)							eS	26 29			
	Gulf of California							eScP	46			
6	SOD	eP	03 18 25			SOD	iP	10 21 06.0 U				
	KJN	eP	03 18 42					i	12.2			
	H: 03 06 09.6							ipP	28.6			
	26.5 N, 110.3 W, 33 km (R)							esP	42			
	Gulf of California						KJN	iP	10 20 49.6	0.8	17.4	
6	NUR	eP	03 21 11	0.7	10.3			ipP	21 12.1			
	SOD	eP	03 20 23					esP	24			
	KJN	iP	03 20 47.9	1.0	13.1	KEV	iP	10 21 21.9 U	0.7	53.0		
	KEV	eP	03 20 06	0.8	9.2			i	50.5			
6	NUR	iP	03 31 26.1 D	0.8	21.6			ePP	22 51			
	SOD	iP	03 30 38.8 U					e	23 24			
	KJN	iP	03 31 01.7 U	1.0	17.4	H: 10 13 45.2						
	KEV	iP	03 30 20.8 D	0.8	18.4	37.1 N, 71.4 E, 100 km (R)						
	H: 03 20 59.4						Hindu Kush					
	56.7 N, 152.3 W, 33 km (R)						6	SOD	eP	10 51 11		
	Alaska aftershock							KJN	eP	10 51 22	0.7	4.5
6	NUR	iP	07 35 01.9 D	1.4	795.4	H: 10 38 41.0						
		i	20.3			18.7 N, 100.5 W, 108 km						
		i	32.2			Guerrero, Mexico						
		i	48.5			6	SOD	eP	14 33 27			
		ePP	38 35				KJN	iP	14 33 26.8	1.2	40.3	
		ePPP	40 45			H: 14 19 46.3						
		eSKS	45 28			6.9 S, 129.6 E, 100 km (R)						
		eS	46 02			Banda Sea						
		ePS	49			6	NUR	eSS	20 30 36			
SOD	iP	07 34 43.7 D						eL	20 47.9			
		eSKS	45 06			H: 19 50 42.1						
KJN	iP	07 34 55.6 D	1.0	414.2	21.2 S, 173.8 E, 22 km							
		i(PP)	38 06.4			New Hebrides Islands						
		eSKS	45 24			6	SOD	eP	20 25 22			
		eS	35				KJN	eP	20 26 02	0.9	13.8	
		ePS	47 07			6	SOD	eP	20 49 21			
		ePKKP	52 47				KJN	eP	20 50 01	0.8	8.7	
KEV	iP	07 34 37.0 D	1.1	733.7		6	SOD	eP	23 15 42			
		eSKS	45 02				KJN	eP	23 16 24	1.0	28.3	
H: 07 22 11.7							KEV	eP	23 15 19			
18.3 N, 100.4 W, 100 km												
Guerrero, Mexico												

July						July					
				T	A						
7	NUR	eP	01 39 15			7	NUR	iP	13 56 25.0	1.0	17.8
	SOD	eP	01 38 38				SOD	eP	13 55 41		
	KJN	eP	01 38 53					i	47.7		
	H: 01 28 29.9						KEV	eP	13 55 26		
	44.4 N, 149.4 E, 30 km							i	33.5	1.1	32.5
	Kurile Islands						H: 13 44 40				
							43.4 N, 127.2 W, 7 km				
							Off coast of Oregon				
7	NUR	eP	04 09 04			7	NUR	iP	15 16 24.0 D	0.8	14.3
	SOD	eP	04 07 31				KJN	iP	15 16 13.3	0.8	12.6
	KJN	iP	04 08 13.7 D	0.9	26.6						
		e	15 17								
	KEV	eP	04 07 11			7	NUR	eP	21 20 04		
		eS	08 24					i	08.0	1.0	19.8
		eLR	04 08.5				SOD	eP	21 20 18		
	H: 04 05 27						KJN	eP	21 20 03	0.5	4.9
	73.7 N, 8.6 E, 33 km (R)							e	07	1.1	24.0
	Svalbard region							e	21 27		
7	KJN	eP	04 26 43	1.0	9.8		KEV	eP	21 20 26	0.8	9.1
7	KJN	eP	04 31 19				H: 21 12 33.6				
7	SOD	eP	04 49 08				35.8 N, 73.4 E, 19 km				
	KJN	eP	04 49 49	0.7	7.6		Hindu Kush				
7	SOD	eP	06 45 47			8	NUR	eP	01 38 24	1.0	13.9
	KJN	eP	06 46 15				SOD	iP	01 39 26.4		
7	NUR	eP	06 58 10				KJN	eP	01 38 56		
	SOD	eP	06 58 11				KEV	eP	01 39 47		
	KJN	eP	06 58 05	0.8	13.7		H: 01 32 56.3				
	H: 06 44 49.2						34.9 N, 21.7 E, 18 km				
	8.8 S, 110.7 E, 60 km						Mediterranean Sea				
	South coast of Java					8	KJN	eP	05 48 05	0.9	9.2
7	NUR	ePKP	07 57 29	0.8	7.2	8	NUR	eP	07 19 05		
		i	36.1	0.9	33.6		SOD	iP	07 18 51.0		
		iSKP	08 00 23.5				KJN	eP	07 18 51	0.8	11.3
		iPP	35.0				KEV	iP	07 18 47.3	0.6	7.9
		ePKS	01 11				H: 07 07 16.0				
		eSS	18 44				19.2 N, 121.1 E, 37 km				
	SOD	ePKP	07 57 18				Luzon, Philippine Is.				
		e	24			8	NUR	eP	07 59 04	0.8	4.3
		iSKP	08 00 04.7					eS	08 10 04		
	KJN	ePKP	07 57 20					eSS	16 24		
		i	28.8	0.9	23.4			eSSS	20 20		
		iSKP	08 00 12.5					eLQ	08 25		
	KEV	iPKP	07 57 20.5	1.0	21.0		SOD	eP	07 58 49		
		iSKP	59 57.3				KJN	eP	07 58 50		
		ePKS	08 00 47					ePP	08 02 31		
	H: 07 39 04.2							ePKKP	16 09		
	23.6 S, 179.9 W, 462 km						KEV	eP	07 58 49		
	Fiji Islands						H: 07 45 48.6				
							3.2 N, 128.4 E, 50 km (R)				
							Molucca Passage				

July				July			
		T	A			T	A
9	NUR eP	22 07 36		KJN iP	08 40 22.2 U	0.9	51.5
	KJN eP	22 07 11			H: 08 29 12.9		
	H:	21 56 48.4			22.4 N, 121.4 E, 118 km		
		44.2 N, 149.5 E, 33 km (R)			Taiwan		
		Kurile Islands					
10	NUR eP	01 29 17		11	NUR eP	09 54 22	
	eS	38 12			SOD iP	09 53 33.8	
	eSS	42 16			e	54 06	
	eLQ	01 47			KJN eP	09 53 58	1.1 16.6
	eLR	01 51			KEV eP	09 53 19	
	SOD eP	01 29 33			H:	09 44 18.7	
	KJN eP	01 29 21	1.0 5.5			59.7 N, 146.1 W, 33 km (R)	
	KEV eP	01 29 43				Alaska aftershock	
	H:	01 17 53.3		11	NUR eP	12 03 48	1.0 10.0
		0.6 S, 19.8 W, 33 km (R)			eS	13 02	
		Mid-Atlantic Ocean			e	21	
10	KJN eP	12 03 13			eSS	17 40	
	H:	11 50 46.8			eSSS	21 07	
		26.5 N, 109.7 W, 33 km (R)			SOD eP	12 04 13	
		Gulf of California			KJN eP	12 04 06	0.9 10.5
10	NUR eP	17 19 31	0.5 6.6		H:	11 52 25.0	
	SOD eP	17 18 52				1.0 N, 29.3 W, 33 km (R)	
	KJN eP	17 19 06	0.7 3.8			Mid-Atlantic Ocean	
	H:	17 08 57.3		11	NUR eP	15 48 38	0.7 3.9
		47.2 N, 153.1 E, 82 km			SOD eP	15 48 27	
		Kurile Islands			KJN eP	15 48 28	0.9 9.6
11	SOD eP	01 50 32			KEV eP	15 48 25	
	H:	01 36 16.3			H:	15 35 53.1	
		7.3 S, 148.0 E, 58 km				5.8 N, 126.4 E, 152 km	
		North-East New Guinea				Mindanao, Philippine Is.	
11	NUR iP	04 56 13.6 U	0.6 15.0	11	NUR iP	17 49 06.0 U	1.0 26.0
	SOD iP	04 55 39.3 U			i	09.8	
	KJN iP	04 55 51.2 U	0.7 12.3		e	51 06	
	KEV iP	04 55 28.6	0.9 13.8		eS	52 54	
	H:	04 45 28.6			SOD iP	17 48 39.7	
		41.6 N, 142.3 E, 50 km (R)			i	49 04.5	
		Honshu, Japan			iS	51 53.0	
11	NUR iP	08 29 23.7	0.7 10.3		i	52 25.5	
	eS	32 05			KJN iP	17 48 58.7 U	0.9 47.7
	e	33 52			e	50 12	
	SOD eP	08 29 54			eS	52 37	
	KJN eP	08 29 31			e	53 27	
	eS	32 18			KEV iP	17 48 36.0 U	1.3 85.4
					H:	17 44 29.8	
11	NUR eP	08 40 36	1.0 20.0			66.4 N, 19.7 W, 19 km	
	SOD iP	08 40 21.0 U				Northern Iceland	
		cont.		11	NUR eP	19 06 18	1.0 14.0
					SOD eP	19 05 58	
					e	06 09	
						cont.	

July				T	A	July				T	A	
	KJN	eP	19 06 04	1.3	22.1	SOD	iP	01 55	53.0			
	KEV	eP	19 05 57				i		56.8			
			H: 18 53 15.8				i		56 13.0			
			12.2 N, 141.6 E, 61 km				eS	02 04	23			
			Mariana Islands			KJN	iP	01 56	03.3	1.4	231.8	
11	NUR	iP	20 35 43.3	1.2	39.9		i		06.5			
		ePcP	36 26				ePP		58 28			
		eS	43 56				eS	02 04	43			
		e	44 44			KEV	iP	01 55	42.7 U	1.3	57.0	
		eSS	47 48				eS	02 04	06			
		eLR	20 53.5				eScS		05 30			
	SOD	iP	20 34 54.6 U				eSS		08 00			
		i	35 44.5				eSSS		10 56			
		i	36 20.5					H: 01 45 25.6				
	KJN	iP	20 35 19.0 U	1.1	37.3			38.6 N, 139.2 E, 13 km (R)				
		e	38					Honshu, Japan				
	KEV	iP	20 34 36.9 U	1.2	32.9	12	NUR	iP	13 52	43.2 U	0.8	28.8
		eS	41 54					i		46.6	1.0	8.0
		eSS	46 08									
		e	54									
			H: 20 25 40.3									
			59.7 N, 146.2 W, 40 km (R)									
			Alaska aftershock									
11	NUR	eP	21 15 54			12	NUR	eP	20 07 13	1.0	8.0	
	SOD	eP	21 15 05				SOD	eP	20 06 58			
	KJN	eP	21 15 30	1.0	11.1			e	07 06			
	KEV	eP	21 14 42				KJN	iP	20 06 55.1 D	0.6	6.8	
			H: 21 05 49.9					ePP	07 42			
			59.7 N, 146.5 W, 33 km (R)				KEV	eP	20 06 40			
			Alaska aftershock						H: 20 00 59.6			
									53.8 N, 81.3 E, 20 km (R)			
									Central Russia			
12	NUR	eP	01 00 39	1.2	17.1	12	NUR	iP	20 25 45.9 U	0.9	40.3	
	SOD	eP	01 01 16					epP	26 24			
	KJN	iP	01 00 59.1 U					ePcP	33			
	KEV	iP	01 01 32.0	1.7	52.3			eS	33 39			
								esS	34 38			
								e	36 26			
								eLQ	20 40.3			
							SOD	iP	20 25 45.0 U			
								epP	26 20			
								eS	33 40			
12	NUR	iP	01 56 24.6 U	1.0	36.0		KJN	iP	20 25 38.2 U	1.2	89.0	
		i	27.7					ePcP	26 28			
		e	44					ePP	27 38			
		ePP	58 50					eS	33 28			
		ePPP	02 00 48					esS	34 30			
		eS	05 22					eScS	35 11			
		eScS	06 20				KEV	iP	20 25 47.0 U	1.0	67.2	
		eSS	09 24					eS	33 44			
		eSSS	12 08						H: 20 15 59.0			
		eLQ	02 14.0						24.9 N, 95.3 E, 155 km			
		eLR	02 16.3						Northwestern Burma			

cont.

July						July					
				T	A						
				T	A						
12	NUR	eP	20 30 19			13	NUR	eP	12 06 28		
	SOD	eP	20 29 46				SOD	iP	12 05 51.2 U		
	KJN	eP	20 29 58				KEV	eP	12 05 37		
	H: 20 19 17.4						H: 11 54 50.7				
	40.5 N, 142.5 E, 33 km (R)						42.5 N, 126.7 W, 33 km (R)				
	Honshu, Japan						Near coast of Oregon				
12	NUR	ePKP	21 27 33	0.9	10.1	13	NUR	eP	16 02 34		
	SOD	iPKP	21 27 44.8				SOD	iP	16 01 46.1		
	KJN	iPKP	21 27 40.3	0.9	13.8		KJN	eP	16 02 09		
	H: 21 08 52.6						KEV	eP	16 01 28		
	55.9 S, 27.6 W, 135 km						H: 15 52 04.8				
	Sandwich Islands						56.6 N, 154.0 W, 25 km (R)				
							Alaska aftershock				
13	NUR	eSKP	01 35 29			13	NUR	eS	16 34 05		
	SOD	ePKP	01 32 38					eL	16 37.2		
		eSKP	35 09				SOD	eP	16 28 48		
	KJN	ePKP	01 32 43	1.0	11.1		KJN	eP	16 28 56		
		eSKP	35 17				H: 16 22 26				
	H: 01 14 33.5						53.7 N, 35.2 W, 33 km (R)				
	20.7 S, 178.7 W, 575 km						North Atlantic Ocean				
	Fiji Islands					13	NUR	iP	17 24 44.7	0.7	12.9
								i	46.5	0.6	30.0
13	KJN	iP	02 24 49.0	0.9	11.2		SOD	eP	17 24 32		
	Moscow:						KJN	iP	17 24 33.5	0.6	46.1
	H: 02 19 25						KEV	eP	17 24 30		
	41.6 N, 44.5 E						H: 17 12 01.3				
	Caucasus						8.0 N, 126.8 E, 104 km				
							Mindanao, Philippine Is.				
13	NUR	eP	11 08 43	1.3	71.6	13	KJN	eP	18 26 14		
	epP		09 09								
	i		16.7			13	NUR	eP	21 13 34		
	ePPP		12 44					eS	22 38		
	eS		16 46					eScS	23 36		
	esS		17 36					eSS	26 51		
	e		18 52					eLR	21 34.5		
	SOD	iP	11 08 44.0 U				SOD	eP	21 13 56		
	ipP		09 10.6				KJN	iP	21 13 51.1 D	0.9	21.1
	eS		16 49				KEV	eP	21 14 02	1.1	52.5
	KJN	iP	11 08 36.5	1.2	8.6		H: 21 02 33.3				
	epP		09 00				7.7 N, 34.7 W, 33 km (R)				
	ePcP		24				North Atlantic Ocean				
	eS		16 34								
	e		19 08			13	NUR	eP	21 51 38	0.7	3.9
	KEV	iP	11 08 46.6 U	1.5	10.3		SOD	eP	21 50 51		
	ipP		09 13.0				KJN	eP	21 51 13		
	e		21				KEV	eP	21 50 34		
	H: 10 58 47.7						H: 21 41 02.6				
	23.7 N, 94.7 E, 117 km						55.2 N, 156.5 W, 33 km (R)				
	Northwestern Burma						Alaska aftershock				

July					July					
			T	A			T	A		
13	NUR	eP	22 06 50	0.4	6.7	SOD	iP	10 06 55.7 U		
	SOD	eP	22 07 04			KJN	iP	10 07 02.2 U	1.1 39.5	
	KJN	iP	22 06 48.6	0.7	6.3	H: 09 55 24.4 19.0 N, 66.5 W, 46 km Puerto Rico				
14	NUR	eP	02 05 00			14	NUR	eP	12 59 08 1.0 12.0	
	SOD	eP	02 05 36				SOD	iP	12 58 30.8	
	KJN	iP	02 05 13.3	0.9	10.5		KJN	iP	12 58 50.5 U	
	Moscow: H: 01 57 34 27.1 N, 54.7 E Iran						H: 12 47 25.6 41.8 N, 125.7 W, 33 km (R) Northern California			
14	NUR	eP	02 56 50			14	NUR	iP	14 08 39.0 U 0.9 23.5	
	KJN	iP	02 57 14.0	0.8	6.6		iPcP	09 21.8		
14	NUR	eP	04 14 45	1.1	9.5		e	12 50		
	SOD	eP	04 14 12				eS	16 44		
	KJN	eP	04 14 19				eSS	21 12		
	KEV	eP	04 14 04				eLQ	14 24.1		
	H: 04 04 18.2 53.6 N, 172.0 E, 33 km (R) Near Islands						SOD	iP	14 07 54.0	
							iPcP	08 57.0		
							KJN	iP	14 08 12.1 U	
							iPcP	09 06.1		
14	NUR	eP	05 32 21	0.7	5.2		KEV	eP	14 07 44	
	SOD	iP	05 31 32.6				H: 13 58 28.5 53.3 N, 159.7 E, 40 km Kamchatka			
	KJN	iP	05 31 56.7	0.8	6.6					
	H: 05 22 20.0 60.4 N, 142.9 W, 10 km (R) Alaska aftershock						14	NUR	eP	15 50 38
							KJN	eP	15 51 05	
14	NUR	ePn	05 36 13.8	1.0	30.0	14	NUR	eP	17 30 05 0.7 5.2	
		i	21.0	0.5	77.9		SOD	eP	17 29 27	
		iSn	37 55.0				H: 17 19 23.3 45.3 N, 150.2 E, 33 km (R) Kurile Islands			
		eLg	38 59.2							
	SOD	ePn	05 37 05.0			14	NUR	eP	18 26 04	
		iSn	39 20.4				KJN	eP	18 26 33	
		eLg	41 06.5							
	KJN	iPn	05 36 48.2	0.7	16.6	14	NUR	eP	18 35 13 0.9 6.7	
		iSn	38 55.9				SOD	eP	18 35 07	
		iLg	40 24.2							
	KEV	ePn	05 37 28			14	NUR	ePKP	18 58 08 0.9 6.7	
		eSn	40 09				SOD	ePKP	18 58 15	
		eLg	42 02				KJN	ePKP	18 58 09	
	H: 05 33 55.1 57.0 N, 7.3 E, 36 km South coast of Norway						H: 18 38 39.1 52.7 S, 139.4 E, 36 km West of Macquarie Island			
14	NUR	eP	10 06 58	1.2	17.1					
		eS	16 28			14	KJN	eP	19 47 32	
		eLR	10 29.5							

cont.

July				T	A	July				T	A
14	NUR	eP	19 49 46	1.2	11.4	15	NUR	iP	19 07 11.2 D	0.6	52.1
	SOD	eP	19 49 47					ePcP	45		
14	NUR	iP	23 09 16.8 D	1.2	28.5		SOD	iP	19 06 33.0 D		
		eS	17 20				KJN	iP	19 06 47.2	0.8	14.5
	SOD	eP	23 08 28				KEV	iP	19 06 21.0 D	0.8	16.6
		e	33				H: 18 56 26.0				
	KJN	iP	23 08 52.8	1.1	15.2		44.0 N, 148.1 E, 30 km				
	KEV	eP	23 08 20				Kurile Islands				
	H: 22 59 09.2					15	NUR	eP	22 46 07	0.7	3.8
	59.5 N, 144.8 W, 20 km (R)						KJN	eP	22 45 45		
	Alaska aftershock					16	KJN	iP	04 34 10.2	0.8	4.0
14	NUR	ePKP	23 31 49	0.8	4.3		H: 04 21 05.3				
	KJN	ePKP	23 31 38	1.0	7.8		1.5 N, 126.4 E, 69 km				
	H: 23 12 12.7						Molucca Passage				
	34.3 S, 179.1 E, 75 km					16	NUR	eP	09 30 39		
	Kermadec Islands						SOD	eP	09 30 13		
15	KJN	iP	00 03 46.8				KJN	iP	09 30 21.6 U	1.0	11.1
							KEV	iP	09 30 06.1 U		
15	NUR	eP	03 17 19	0.7	2.6		H: 09 19 45.8				
	SOD	eP	03 16 34				29.9 N, 138.0 E, 461 km				
	KJN	iP	03 16 52.9	0.9	9.4		South of Honshu, Japan				
15	KJN	iP	06 41 04.5	0.8	5.6	16	NUR	eP	10 30 15		
15	NUR	eP	07 11 50	1.0	12.0		SOD	eP	10 29 57		
	KJN	iP	07 12 04.7	1.2	17.2		KJN	iP	10 30 04.3		
15	NUR	iP	07 36 53.0 U	1.0	112.0	16	NUR	eP	10 48 08		
		ePS	46 10				SOD	eP	10 47 31		
		eSS	50 22				KJN	eP	10 47 45		
	SOD	iP	07 36 07.2 U				H: 10 37 23.1				
	KJN	iP	07 36 28.4 U				44.0 N, 148.3 E, 33 km (R)				
		ePcP	37 05				Kurile Islands				
	KEV	iP	07 35 50.7			16	NUR	eSKP	11 47 44		
	H: 07 26 01.4						H: 11 27 05				
	52.1 N, 170.6 W, 30 km (R)						17.9 S, 179.5 W, 625 km (R)				
	Fox Islands						Tonga Islands				
15	NUR	iPKP	08 43 39.0 D	0.7	12.7	16	NUR	eP	13 28 25	0.6	4.8
	KJN	iPKP	08 43 31.8	0.8	8.1		SOD	iP	13 28 04.3 D		
	H: 08 24 56.5						KJN	eP	13 28 11		
	11.3 S, 166.1 E, 130 km						KEV	iP	13 27 58.0 D	0.7	13.6
	Santa Cruz Islands						H: 13 15 26.3				
							16.0 N, 145.5 E, 33 km (R)				
							Mariana Islands				
15	NUR	eP	09 54 57			16	NUR	eP	16 18 16		
	KJN	eP	09 55 28					eS	27 16		
	H: 09 49 05.8						KJN	iP	16 18 26.6		
	35.2 N, 4.5 E, 39 km						H: 16 07 18.3				
	Algeria						0.3 N, 67.0 E, 33 km (R)				
							Indian Ocean				

July					July						
			T	A			T	A			
23	NUR	eP	09 51 30	0.9	4.9	24	NUR	iP	07 01 31.7 U	1.3	385.3
		eS	10 00 30					ePP	03 56		
		eSS	05 20					ePPP	05 30		
		eLQ	10 09.4					e	07 05		
		eLR	10 13.0					eS	10 06		
	SOD	eP	09 52 03					ePS	26		
	KJN	iP	09 51 52.0	0.9	12.5			eScS	11 24		
	KEV	eP	09 52 27	1.1	19.7			eSS	14 29		
	H: 09 40 29.2							eLQ	07 18.6		
	0.7 S, 16.3 W, 33 km (R)							eLR	07 20.8		
	Ascension Island						SOD	iP	07 00 51.1		
								i	54.8		
23	KJN	eP	11 04 03	1.4	18.1			eS	09 00		
23	KJN	iP	13 28 14.0	0.6	10.3			eP'P'	30 28		
23	SOD	eP	14 28 39				KJN	iP	07 01 07.2 U	1.4	199.1
	KJN	eP	14 29 03					e	40		
	KEV	eP	14 28 22					eS	09 30		
	H: 14 19 01.1							eScS	10 57		
	57.1 N, 150.4 W, 33 km (R)							eP'P'	30 29		
	Alaska aftershock						KEV	iP	07 00 37.4	1.0	37.3
23	SOD	eP	16 05 37					ePcP	01 32		
	KJN	eP	16 05 58					ePPP	03 54		
	H: 15 56 28							eS	08 31		
	59.7 N, 145.8 W, 20 km (R)							eSS	12 38		
	Alaska aftershock							eLQ	07 15.0		
23	NUR	iP	19 18 08.0 D	0.8	80.1	24	NUR	eP	07 08 46		
		ePcP	57				SOD	eP	07 08 07		
		eS	26 18								
	SOD	iP	19 17 19.3 D			24	SOD	eP	07 13 47		
		e	26								
		iPcP	18 27.4			24	NUR	eP	07 23 41	0.7	9.0
	KJN	iP	19 17 44.3 D	0.8	55.3		SOD	eP	07 23 01		
		i	51.8				KJN	eP	07 23 07		
		iPcP	18 41.0				H: 07 13 01.2				
	KEV	iP	19 17 01.0 D	0.7	44.9		46.9 N, 153.8 E, 33 km				
	H: 19 08 06.6						Kurile Islands				
	59.9 N, 149.2 W, 55 km					24	NUR	eP	07 46 17		
	Alaska aftershock						SOD	eP	07 45 30		
24	SOD	eP	01 52 18				KJN	eP	07 45 48		
	H: 01 39 39.0						H: 07 35 48.4				
	14.2 N, 91.6 W, 65 km						56.3 N, 157.8 W, 24 km				
	Guatemala						Alaska Peninsula				
24	NUR	eP	05 58 01			24	NUR	iP	08 23 17.4 U	0.9	322.6
	SOD	eP	05 57 12					eS	32 01		
	KJN	eP	05 57 36	0.9	7.5			eScS	33 12		
	KEV	eP	05 56 53	0.8	3.0						

cont.

July				July			
		T	A			T	A
	ePPP	40	02				
	eS	44	36				
	eScS	45	48				
	eSS	48	49				
	eLQ	13	52.7				
	eLR	13	54.8				
SOD	iP	13	35 17.0 U				
	eS	43	24				
KJN	iP	13	35 32.4 U	2.0	301.0		
	ePcP	36	14				
KEV	iP	13	35 03.2	0.8	26.8		
	ePPP	38	26				
	eS	42	47				
	eLQ	13	48.6				
	H:	13	25 18.3				
		47.0 N, 153.7 E, 33 km (R)					
		Kurile Islands					
24	NUR ePKP	14	06 23	0.9	10.1		
	H:	13	47 48.6				
		6.6 S, 154.8 E, 62 km					
		Solomon Islands					
24	NUR eP	14	23 52				
	SOD eP	14	23 12				
24	NUR iP	14	36 38.3 D	0.7	15.5		
	SOD iP	14	35 57.7				
	KJN eP	14	36 13	1.2	8.6		
	KEV eP	14	35 44	0.9	8.7		
	H:	14	25 58.5				
		46.8 N, 153.6 E, 33 km (R)					
		Kurile Islands					
24	NUR eP	14	58 23				
	SOD eP	14	57 42				
	H:	14	47 43.5				
		46.8 N, 153.8 E, 33 km (R)					
		Kurile Islands					
24	NUR eP	16	32 47				
	SOD eP	16	32 06				
	KJN eP	16	32 22				
24	NUR iP	16	45 06.7	0.9	25.2		
	SOD iP	16	44 26.6				
	KJN eP	16	44 42	0.9	6.6		
	KEV eP	16	44 13	0.9	12.1		
	H:	16	34 29.2				
		47.2 N, 153.9 E, 33 km (R)					
		Kurile Islands					
24	NUR iP	17	13 27.8 U	0.9	142.8		
	e	17	02				
	ePPP	26					
	eS	22	06				
	eScS	23	20				
	eSS	26	08				
	eP'P'	42	09				
	eLQ	17	29.2				
	eLR	17	33.1				
SOD	iP	17	12 47.0				
KJN	iP	17	13 03.7 U	1.0	51.1		
	eS	21	31				
	eScS	22	51				
	eP'P'	42	21				
KEV	iP	17	12 33.8 D	1.1	32.0		
	i	38.5					
	ePP	14	49				
	eS	20	26				
	eLQ	17	27				
	eLR	17	29				
	H:	17	02 49.2				
		47.1 N, 153.6 E, 33 km (R)					
		Kurile Islands					
24	NUR iP	17	16 39.0	1.1	52.4		
24	SOD eP	17	27 31				
	KJN eP	17	27 47				
	H:	17	17 32				
		46.9 N, 154.0 E, 33 km (R)					
		Kurile Islands					
24	NUR eP	18	01 21	0.7	7.7		
	SOD eP	18	00 41				
	KJN eP	18	00 56	0.7	4.6		
24	NUR eP	18	59 04				
	SOD eP	18	58 24				
24	NUR iP	19	00 42.2 U	0.8	31.7		
	SOD iP	19	00 02.7 U				
	KJN iP	19	00 18.3	1.0	16.7		
	ePcP	01	00				
KEV	iP	18	59 48.4	1.0	18.6		
	H:	18	50 04.1				
		47.0 N, 153.8 E, 33 km (R)					
		Kurile Islands					

July							July							
				T	A					T	A			
24	NUR	iP	19 02 42.8 D	0.8	21.6	24	NUR	eP	22 22 17	0.8	13.0			
	SOD	iP	19 02 02.7 D				SOD	eP	22 21 36					
	KJN	eP	19 02 18	0.7	6.9		KJN	iP	22 21 52.6	0.8	8.1			
	KEV	eP	19 01 49	1.0	14.5		H:		22 11 38.2					
			H: 18 52 02.1						47.0 N, 153.9 E, 33 km (R)					
			46.7 N, 153.9 E, 33 km (R)						Kurile Islands					
			Kurile Islands			25	SOD	eP	01 42 46					
24	NUR	iP	19 05 54.3 D	0.7	15.5		KJN	eP	01 43 04	0.7	6.2			
	SOD	eP	19 05 14				H:		01 33 20.6					
	KJN	iP	19 05 30.2	0.5	5.9				52.8 N, 159.3 E, 70 km (R)					
			H: 18 55 14.1						Kamchatka					
			46.9 N, 154.0 E, 33 km (R)			25	NUR	iP	02 26 43.3 D	0.6	8.8			
			Kurile Islands				SOD	eP	02 26 03					
24	SOD	eP	19 45 52				KJN	eP	02 26 20	0.8	4.0			
							H:		02 16 02					
24	KJN	eP	19 46 35	0.7	4.6				46.7 N, 153.8 E, 33 km (R)					
			H: 19 35 31.4						Kurile Islands					
			33.9 N, 141.7 E, 73 km			25	NUR	i	12 39 13.0					
			Honshu, Japan					iPKP	22.0					
24	NUR	eP	19 56 52					eSKP	42 30					
	SOD	eP	19 56 11				SOD	ePKP	12 39 07					
	KJN	eP	19 56 28					eSKP	42 09					
24	SOD	eP	20 00 36				KJN	ePKP	12 39 13					
								eSKP	42 18					
24	SOD	eP	20 29 02				KEV	ePKP	12 39 04					
	KJN	eP	20 29 37	1.2	10.3		H:		12 20 22.2					
	KEV	eP	20 28 34						19.9 S, 176.2 W, 205 km					
									Tonga Islands					
24	NUR	eP	20 34 37	1.7	49.9	25	KJN	iP	18 05 30.4	0.8	8.1			
	SOD	eP	20 33 26			25	NUR	iP	18 14 51.7 D	0.8	21.6			
	KJN	iP	20 34 02.6 U	1.1	23.5		SOD	iP	18 14 11.1					
	KEV	eP	20 33 00	1.5	58.1		KJN	iP	18 14 28.1	1.0	10.0			
		eS	35 45				H:		18 04 11.2					
			H: 20 29 11.5						46.8 N, 154.1 E, 33 km (R)					
			85.9 N, 20.6 E, 33 km (R)						Kurile Islands					
			Svalbard region			25	NUR	eP	19 46 06					
24	NUR	eP	22 05 17					ePKP	49 50					
		i	23.3	0.7	15.5			ePP	50 56					
	SOD	iP	22 04 28.8					ePKS	53 22					
		i	36.0					eSKS	56 38					
	KJN	iP	22 04 52.6	1.0	11.1			eS	58 08					
	KEV	eP	22 04 17					ePS	20 00 36					
			H: 21 54 54.0					eSS	07 06					
			57.7 N, 152.2 W, 10 km (R)					eLQ	20 19					
			Alaska aftershock					eLR	20 24					

cont.

July		T	A	July		T	A
27	NUR eP 11 14 26 SOD eP 11 14 14 H: 11 01 13 1.9 N, 126.3 E, 67 km Northern Celebes			28	NUR eP 06 30 13 SOD eP 06 29 35 KJN eP 06 29 45 KEV eP 06 29 21 H: 06 19 29.8 45.4 N, 151.3 E, 33 km (R) Kurile Islands		
27	NUR eP 15 44 37 SOD eP 15 43 58 KJN eP 15 44 13 H: 15 34 05.2 47.5 N, 152.5 E, 33 km (R) Kurile Islands			28	SOD ePKP 12 42 13 H: 12 22 43.0 51.3 S, 139.3 E, 34 km Southwest of Tasmania		
27	NUR eP 19 41 57 SOD eP 19 41 17 H: 19 31 15.0 46.5 N, 153.9 E, 33 km (R) Kurile Islands			28	SOD eP 18 18 24 KJN eP 18 18 38 H: 18 08 17.0 44.3 N, 148.8 E, 33 km (R) Kurile Islands		
27	NUR iP 23 11 16.4 D 0.7 i 27.1 ePPP 15 20 eS 19 52 eScS 21 12 eSS 23 40 eLQ 23 27 eLR 23 31 SOD iP 23 10 36.2 D KJN eP 23 10 52 0.8 KEV iP 23 10 22.4 0.9 H: 23 00 36.3 46.8 N, 153.8 E, 33 km (R) Kurile Islands		32.3	28	SOD eP 18 34 04 H: 18 24 03.0 46.5 N, 153.7 E, 33 km (R) Kurile Islands		
27	SOD eP 23 29 59 H: 23 20 56 60.9 N, 148.0 W, 33 km (R) Alaska aftershock			28	NUR ePKP 18 59 37 eSKKS 19 09 20 e 42 ePSKS 13 03 ePPS 15 18 eSS 21 53 SOD ePKP 18 59 37 KJN ePKP 18 59 34 ePP 19 02 55 KEV iP KP 18 59 41.8 D 1.2 44.9 ePP 19 03 04 eSKKS 09 52 eSKSP 13 08 e 15 16 e 16 44 eSS 21 44 e 22 20 eSSS 27 24 H: 18 40 04.3 51.2 S, 139.0 E, 33 km (R) Southwest of Tasmania		10.6 19.0
28	NUR eP 00 36 01 SOD eP 00 35 21 KJN eP 00 35 37 H: 00 25 21.9 46.7 N, 153.7 E, 33 km (R) Kurile Islands			28	NUR iP 21 49 46.6 U 1.2 57.0 ePP 52 14 ePPP 54 04 e 55 02 eS 58 48 ePS 59 22		
28	NUR iP 02 06 37.6 D 0.7 SOD eP 02 07 34 KJN iP 02 07 04.3 0.6 Moscow: H: 02 00 56 33.9 N, 32.0 E Mediterranean Sea		20.6 5.8				

cont.

July

July

July				July			
		T	A			T	A
	eSS	22 03 26			KEV eSKS	05 39 28	
	e	04 08			ePS	40 30	
	eSSS	06 40			eSS	44 40	
SOD	iP	21 49 48.3 U			eSSS	49 20	
KJN	iP	21 49 41.1 U	1.5	106.9	H: 05 16 03.3		
KEV	iP	21 49 50.5			11.1 N, 86.2 W, 42 km		
	e	50 32			Costa Rica		
	ePP	52 24					
	e	55 14			30 SOD eP	07 51 58	
	eS	58 54			KJN eP	07 52 08	
	eScS	59 46			H: 07 41 25.0		
	eSS	22 03 42			35.9 N, 139.6 E, 101 km		
	eLR	22 12 .			Honshu, Japan		
	H:	21 38 43.5			30 SOD eP	23 03 24	
		14.3 N, 96.2 E, 33 km (R)			H: 22 52 19.4		
		Andaman Islands			14.3 N, 96.2 E, 33 km (R)		
28	NUR eP	22 24 07			Andaman Islands		
	SOD eP	22 23 45					
	KJN iP	22 23 41.5	1.0	10.9			
28	NUR eP	22 57 39			31 NUR iP	04 12 19.1	0.8 25.4
	SOD iP	22 57 41.6			SOD iP	04 11 51.2 D	
	KJN eP	22 57 34	1.0	9.8	KJN iP	04 12 00.5 D	0.8 23.0
	KEV eP	22 57 46	0.9	10.5	H: 04 01 11.1		
	H:	22 46 34.0			32.5 N, 138.7 E, 200 km		
		14.1 N, 96.1 E, 14 km			South of Honshu, Japan		
		Andaman Islands					
29	SOD eP	00 09 56			31 NUR iP	04 15 53.3 D	0.9 73.8
29	KJN eP	07 55 52			i	16 08.1	
29	SOD eP	13 49 57			SOD iP	04 15 15.3 U	
	H:	13 38 52.3			KJN iP	04 15 30.8 D	1.0 53.0
		14.3 N, 96.1 E, 33 km (R)			H: 04 05 06.2		
		Andaman Islands			44.6 N, 151.6 E, 53 km		
29	KJN eP	19 02 29			Kurile Islands		
30	SOD eP	01 02 50					
30	KJN ePKP	01 40 08			31 NUR eP	06 06 22	
	H:	01 22 10.1			e	11 15	
		17.7 S, 178.2 W, 643 km			ePP	33	
		Fiji Islands			ePPP	13 42	
					eSKS	16 45	
					e	19 58	
					eSP	21 00	
					ePKKP	44	
					eSS	27 36	
					SOD eP	06 06 37	
					ePKKP	21 56	
					KJN eP	06 06 40	
					ePP	11 05	
					ePKKP	21 53	
30	NUR eSKS	05 39 32			H: 05 52 18.8		
	ePS	41 08			6.1 S, 149.4 E, 63 km		
	eSS	46 04			New Britain		
	eSSS	49 12					
	eLQ	05 55					
	eLR	05 58					

cont.

July

			T	A
31	SOD eSKP 06 47 56 KJN iSKP 06 48 04.2 H: 06 26 36.7 25.7 S; 179.6 W, 429 km South of Fiji Islands			
31	SOD eP 08 46 37 KJN eP 08 46 31			
31	SOD iP 15 04 30.6 KEV eP 15 04 30 H: 14 51 22.0 2.4 N, 128.2 E, 23 km Halmahera	0.8	14.9	
31	NUR iP 20 53 05.1 D SOD iP 20 52 27.0 D KEV iP 20 52 14.3 D H: 20 43 19.2 47.8 N, 147.4 E, 378 km Sea of Okhotsk	0.8	21.5	
31	NUR eP 21 27 57 eS 32 24 SOD eP 21 26 46 KEV iP 21 26 21.0 D eLR 21 30.1 H: 21 22 24.3 86.4 N, 38.5 E, 33 km (R) Arctic Ocean	1.1	25.9	
31	SOD eP 21 35 10 KEV eP 21 34 47	1.2	64.9	

July

			T	A
31	NUR eP 23 51 32 ePP 52 12 e 55 15 eS 58 eLQ 23 56.8 eLR 23 58.0		1.3	168.5
SOD	iP 23 50 20.3 eS 53 45			
KEV	eP 23 49 51 i 57.0 eS 52 50 eLR 23 53.6		1.4	318.0
H: 23 45 55.2 86.3 N, 40.5 E, 10 km Arctic Ocean				

April 29, 1965

M. T. Porkka
Aili Huovila

KJN has not been in operation between 1st August and 5th November

August

				T	A
1	SOD	eP	00 07 57		
		eS	09 26		
	KEV	eP	00 07 33		
	H:		00 05 48		
			73.0 N, 6.4 E, 33 km (R)		
			Norwegian Sea		
1	NUR	iP	00 54 08.0		
	SOD	eP	00 54 24		
	KEV	eP	00 54 32		
	H:		00 47 08		
			36.7 N, 70.3 E, 149 km		
			Hindu Kush		
1	SOD	eP	01 02 58		
		eS	04 35		
	KEV	eP	01 02 36		
		eS	03 56		
	H:		01 00 50		
			73.0 N, 6.3 E, 33 km (R)		
			Svalbard region		
1	NUR	eS	21 56 40		
		eSS	22 02 20		
		eLQ	23 10.5		
	H:		21 33 28		
			19.9 S, 66.4 E, 33 km (R)		
			Mascarene Islands		
2	NUR	eP	00 25 53		
	SOD	eP	00 25 09		
	H:		00 15 34.5		
			52.9 N, 162.3 E, 33 km (R)		
			Kamchatka		
2	SOD	iPKP	02 39 16.7		
	H:		02 20 19		
			55.9 S, 27.7 W, 86 km		
			South Sandwich Islands		
2	NUR	iP	03 14 47.0 D	0.9	51.5
	SOD	eP	03 14 00		
	KEV	iP	03 13 42.1 D	1.0	62.1
	H:		03 04 16.9		
			56.1 N, 156.1 W, 33 km (R)		
			Alaska aftershock		

August

				T	A
2	NUR	iP	08 46 45.7 D		
		eS	55 20		
		eScS	56 36		
		eSS	59 26		
		eLQ	09 02 16		
		eLQ	09 03.5		
	SOD	iP	08 45 58.9 D		
	H:		08 36 16.9		
			56.2 N, 149.9 W, 31 km		
			Alaska aftershock		
2	NUR	eP	10 44 48		
	SOD	eP	10 45 51		
	H:		10 40 23.7		
			43.0 N, 13.0 E, 33 km (R)		
			Central Italy		
2	SOD	eP	15 43 11		
	H:		15 33 31		
			56.5 N, 149.5 W, 33 km (R)		
			Gulf of Alaska		
2	NUR	iP	16 07 34.8		
	H:		15 56 48.4		
			44.7 N, 151.5 E, 33 km (R)		
			Kurile Islands		
2	SOD	eP	16 27 54		
	H:		16 22 42		
			83.2 N, 119.5 E, 33 km (R)		
			North of Severnaya Zemlya		
2	NUR	iP	22 02 11.0 D		
	SOD	eP	22 01 47		
3	NUR	eP	02 00 09		
		eS	09 51		
		eScS	10 23		
		eSS	14 42		
		e	17 14		
		eLR	02 23.5		
	SOD	eP	02 00 06		
	H:		01 48 23.3		
			19.8 N, 70.7 W, 7 km		
			Dominican Republic		

August

T A

e 33 44
e 34 22
e 36 10
e 41 24
eSS 45 36
esSS 47 32
eSSS 52 14

H: 11 06 02.6
32.1 S, 179.8 E, 235 km (R)
Kermadec Islands

5 NUR iPKT 22 42 18.0 U 1.3 136.4

ePP 44 26
ePKS 45 38
e 52
ePPP 46 54
eSKKS 51 18
eFSKS 54 34
ePS 46
ePPS 56 06
eSS 23 01 20

SOD iPAP 22 42 22.0

i 31.3
ePP 44 43
eSKP 45 47
e 54 43
ePKP 22 42 24 1.4 129.0
ePP 44 46
ePKS 45 51
ePSKS 54 48
ePPS 56 44
eSS 23 02 32

H: 22 23 13.0
41.1 S, 74.9 W, 33 km (R)
Southern Chile

6 NUR iP 02 44 31.9 D 1.0 80.0

epP 45 20

SOD iP 02 44 07.7 D

KEV iP 02 44 01.4 D 0.8 31.7

H: 02 33 39.5
31.5 N, 129.9 E, 197 km
Kyushu, Japan

6 SOD eP 10 57 24

H: 10 46 28.9
43.4 N, 126.7 W, 33 km (R)
Off coast of Oregon

6 SOD iP 13 20 41.2

KEV eP 13 20 24
H: 13 11 31
60.4 N, 145.8 W, 33 km (R)
Alaska aftershock

August

T A

6 NUR eP 16 07 56 1.2 17.1
SOD eP 16 06 30
eS 08 20
KEV eP 16 06 04 0.7 6.7
eS 07 30

H: 16 04 06
75.7 N, 6.8 E, 33 km (R)
Svalbard region

6 NUR iSKP 17 24 38.8

ePKS 25 30

SOD eSKP 17 24 19

KEV iSKP 17 24 13.2

H: 17 03 28.9
22.5 S, 179.5 W, 504 km
South of Fiji Islands

6 SOD eP 17 40 19

6 NUR iP 18 35 14.6 U 0.8 76.3

e 36 10

eS 43 47

e 44 48

eSS 47 40

SOD iP 18 34 27.3 U

i 35.8

iPcP 35 25.0

KEV iP 18 34 10.3 U 0.9 22.8

ePP 36 10

eS 41 46

H: 18 24 50.5
56.9 N, 152.1 W, 39 km
Alaska aftershock

7 NUR iP 05 47 51.3 U 0.7 23.2

SOD iP 05 47 03.6 U

H: 05 37 25.1
56.8 N, 152.3 W, 33 km (R)
Alaska aftershock

7 NUR eP 08 16 06 0.6 7.5

SOD iP 08 15 34.8 U

H: 08 04 58.9
37.5 N, 141.3 E, 33 km (R)
Honshu, Japan

7 NUR eS 15 55 10

eSS 16 01 10

SOD eP 15 43 58

H: 15 31 18.0
14.0 N, 91.9 W, 89 km
Guatemala

August						August					
				T	A					T	A
10	NUR	eP	18 25 49	0.9	8.2	12	SOD	eP	16 11 19		
	SOD	eP	18 26 24								
	KEV	eP	18 26 44			12	SOD	eP	18 24 07		
	H: 18 18 35.6					12	NUR	iP	19 33 08.0	0.9	18.3
	30.3 N; 57.7 E, 13 km							ePP	34 20		
	Iran							ePcP	35 50		
10	NUR	eP	18 32 58					eS	38 24		
								e	31		
10	NUR	eP	20 27 38	0.8	14.1			eSS	40 40		
	SOD	eP	20 27 00			SOD	iP	19 33 50.8			
	KEV	eP	20 26 47					ePP	35 23		
	H: 20 16 55.8					KEV	ePP	19 35 40			
	44.6 N, 148.8 E, 33 km (R)							eSS	43 12		
	Kurile Islands						H: 19 26 26.1				
10	NUR	ePKP	21 58 38				31.0 N, 49.8 E, 33 km (R)				
	H: 21 40 10.4						Western Iran				
	6.2 S, 154.5 E, 105 km					13	NUR	eP	00 45 16		
	Solomon Islands							epP	46 40		
11	NUR	iPKP	02 13 15.7	0.8	8.5			e	48 54		
	H: 01 55 25.0							ePKP	49 07	0.8	23.0
	5.8 S, 154.1 E, 425 km							e	50		
	Solomon Islands							e	54		
11	NUR	iP	13 46 58.0	0.9	11.5			ePP	50 04		
	SOD	iP	13 47 03.0 D					epPP	51 22		
	KEV	eP	13 47 06	1.0	18.9			ePPP	52 29		
	H: 13 35 14							eSKS	55 14		
	6.3 N, 97.3 E, 33 km (R)							eSKKS	56 24		
	Nicobar Islands							eS	57 04		
12	NUR	eP	02 41 53					eSP	58 48		
	SOD	eP	02 42 35					iPKKP	59 53.4		
	KEV	iP	02 42 44.1	0.7	8.0			i	01 00 02.9		
	H: 02 34 24							e	22		
	27.2 N, 56.4 E, 44 km							eSS	05 12		
	Southern Iran					SOD	eP	00 44 55			
12	NUR	iP	07 02 06.7 U	0.7	92.7			epP	46 28		
		epP	43					ePkP	49 03		
		ePP	04 27					iPP	32.0		
		e	06 28					ePS	59 16		
		eS	10 26					ePKKP	01 00 07		
		esS	11 28					i	22.1		
	SOD	iP	07 01 25.4					e	04 11		
		epP	02 05					KEV	eP	00 44 49	
	KEV	iP	07 01 12.0 D	0.8	33.2			epP	46 15		
		epP	49					ePP	49 24		
	H: 06 51 49.9							e	50 12		
	48.9 N, 153.7 E, 127 km							epPP	36		
	Kurile Islands							ePPP	51 18		
								eSKS	54 46		
								e	55 44		
								eS	56 16		

cont.

August			August			August		
	T	A		T	A		T	A
ePS	57	58						
ePPS	59	07						
eSS	01	03 48						
H:	00	31 14.1						
	5.4	S, 154.3 E, 383 km (R)						
		Solomon Islands						
13	SOD	eP 04 41 58						
H:	04	28 23.2						
	6.0	S, 130.4 E, 127 km						
		Banda Sea						
13	SOD	eP 08 47 27						
H:	08	38 11.4						
	59.7	N, 145.3 W, 33 km (R)						
		Gulf of Alaska						
13	NUR	eP 10 43 38						
	SOD	eP 10 44 47						
H:	10	38 05.0						
	34.2	N, 25.7 E, 33 km (R)						
		Crete						
13	NUR	eS 18 48 08						
	ePS	40						
	eSS	53 07						
H:	18	26 30.7						
	10.5	S, 13.3 W, 33 km (R)						
		Ascension Island						
14	NUR	eP 21 38 53						
	eS	47 56						
	ePS	48 24						
	eSS	52 09						
	eLQ	21 55.9						
	eLR	22 00						
	SOD	eP 21 39 11						
	KEV	eP 21 39 17	0.7		12.1			
H:	21	27 41.6						
	7.4	N, 36.8 W, 33 km (R)						
		Mid-Atlantic Ridge						
15	NUR	eP 03 47 50						
	SOD	eP 03 48 10						
H:	03	34 50.8						
	5.5	S, 104.1 E, 33 km (R)						
		Southern Sumatra						
16	SOD	e 05 38 33						
	e	40 10						
	e	42 02						
	KEV	e 05 41 07						
16	NUR	eP 11 51 51				1.0		18.3
	SOD	eP 11 51 02						
	KEV	eP 11 51 06						
H:	11	40 46.5						
	40.3	N, 142.2 E, 74 km						
		Honshu, Japan						
16	SOD	eP 12 47 10						
H:	12	38 20.6						
	62.1	N, 147.3 W, 56 km						
		Central Alaska						
16	NUR	eP 15 59 56						
	SOD	eP 16 00 34						
	KEV	eP 16 00 48						
H:	15	52 38.7						
	27.8	N, 53.0 E, 31 km						
		Southern Iran						
16	NUR	eP 20 46 41						
H:	20	36 00						
	52.2	N, 170.3 E, 33 km (R)						
		Near Islands						
16	NUR	iP 21 34 30.0 U	0.9		44.2			
	iPP	35 14.1						
	ePcP	37 50						
	eS	39 17						
	SOD	eP 21 35 07						
	e	44						
	KEV	eP 21 35 23						
H:	21	28 49.1						
	39.7	N, 52.6 E, 33 km (R)						
		Caspian Sea						
17	NUR	eP 00 23 08		0.8	10.2			
	eS	27 34						
	eLQ	00 28.5						
	SOD	eP 00 24 10						
	KEV	eP 00 24 33						
H:	00	17 40.9						
	35.0	N, 26.0 E, 18 km						
		Crete						
17	NUR	iP 09 13 16.2 D	1.0		26.4			
	eS	18 20						
	eLR	09 21.5						
	SOD	eP 09 13 19						
H:	09	07 03.8						
	52.0	N, 30.0 W, 42 km						
		North Atlantic Ridge						

August

August

				T	A					T	A	
18	NUR	iPKP	05 03 41.3 D	1.3	35.0							
		ePP	04 44			KEV	eS	47 15				
		e	07 22				iP	09 41 15.2 U	1.2	107.6		
		eSKS	10 28				ePP	43 04				
		e	11 40				eS	47 48				
		eS	12 30				eSS	50 59				
		e	13 30				eLR	09 54.0				
		eSP	14 14				H:	09 33 10.0				
		eSPP	15 40					28.2 N, 52.6 E, 50 km				
	SOD	iPKP	05 03 44.4 D					Southern Iran				
		ePKKP	14 08									
	KEV	ePKP	05 03 45	1.2	20.9	19	NUR	iP	15 27 23.7 U	0.7	18.1	
		ePKKP	14 03					ePP	28 52			
		H:	04 44 58.0					eS	33 08			
			26.4 S, 71.5 W, 8 km					eSS	36 09			
			Northern Chile					eLQ	15 36.3			
								eLR	15 37.5			
18	SOD	eP	07 56 07				SOD	iP	15 28 04.1 U			
18	NUR	eP	11 20 41	0.9	15.3			iPP	29 47.1			
		eS	29 42				KEV	eP	15 28 20			
	SOD	eP	11 21 08					ePP	30 14			
	KEV	iP	11 21 18.1 D	1.0	25.2			eS	34 52			
		H:	11 09 43.4					eSS	38 04			
			0.5 N, 67.2 E, 33 km (R)					eLR	15 40.8			
			Carlsberg Ridge					H:	15 20 13.9			
									28.2 N, 52.7 E, 52 km			
									Southern Iran			
18	SOD	eP	11 54 46									
	KEV	eP	11 54 58	1.0	8.4							
18	NUR	iP	15 36 18.0 D	1.0	30.5	19	NUR	iP	22 47 25.5			
	SOD	eP	15 36 51					eS	53 11			
	KEV	iP	15 37 03.7 D	1.2	44.9			eLQ	22 55.1			
		H:	15 26 11.4				SOD	eP	22 48 06			
			5.7 N, 58.0 E, 33 km (R)					ePP	49 42			
			Carlsberg Ridge				KEV	iP	22 48 21.8 D	1.0	23.1	
								eSS	58 10			
								H:	22 40 17.9			
									28.4 N, 52.7 E, 58 km			
									Southern Iran			
18	SOD	eP	21 26 12									
	KEV	eP	21 26 19									
19	SOD	eP	03 45 19									
	KEV	eP	03 45 03			20	NUR	iP	02 11 44.2 D	1.6	325.8	
19	NUR	iP	09 40 19.7 U	0.9	39.7			e	12 03			
		ePP	41 48					e	51			
		ePcP	42 33					eLR	02 14.9			
		eS	46 02				SOD	eP	02 10 38			
		e	50 03					eS	12 26			
		eLQ	09 49.1				KEV	iP	02 10 21.5			
		eLR	09 50.2					eS	12 07			
								eLR	02 12.3			
	SOD	iP	09 41 00.0 U					H:	02 08 15.8			
		ePP	42 30						72.1 N, 1.4 E, 33 km (R)			
									Norwegian Sea			

cont.

August						August					
				T	A					T	A
20	NUR	eP	04 01 11	1.0	22.0	20	NUR	ePKP	08 52 12		
		i	12.5	1.0	58.0			H:	08 32 43.1		
		i	15.3						29.7 S, 177.9 W, 80 km		
		eS	05 03						Kermadec Islands		
		eLR	04 06.1								
	SOD	eP	04 00 51			20	NUR	eP	10 34 32	1.2	36.7
		eS	04 26				SOD	eP	10 33 27		
	KEV	eP	04 00 50					eS	35 14		
		eS	04 28				KEV	eP	10 33 18		
		eLR	04 05.1					H:	10 31 05.7		
		H:	03 56 29.2						72.1 N, 1.2 E, 33 km (R)		
			63.9 N, 20.5 W, 33 km (R)						Norwegian Sea		
			Iceland								
20	SOD	eP	04 29 52			20	NUR	ePS	13 16 40		
		H:	04 18 01					eSS	22 30		
			4.1 N, 95.4 E, 93 km					e	32 44		
			Northern Sumatra					eLQ	13 34.5		
								eLR	13 41		
								H:	12 48 47.7		
									37.4 S, 78.3 E, 33 km (R)		
									Mid-Indian Rise		
20	NUR	eP	05 16 01			20	SOD	eP	14 12 37		
	SOD	iP	05 16 41.1 U					H:	14 03 34.4		
		ePP	18 16						61.4 N, 147.5 W, 35 km (R)		
	KEV	iP	05 16 57.0 U	1.0	84.0				Southern Alaska		
		eSS	26 44								
		H:	05 08 50.3								
			28.1 N, 52.6 E, 47 km								
			Southern Iran								
20	NUR	iP	05 46 57.1 U	1.0	62.0	20	NUR	iP	16 33 26.4	1.5	179.8
		eS	52 43					eLR	16 36.8		
		eLQ	05 56.5				SOD	eP	16 32 21		
	SOD	iP	05 47 37.3 U					eS	34 07		
		ePP	49 18				KEV	iP	16 32 04.0	1.0	16.6
	KEV	iP	05 47 53.0 U	1.0	126.0			eLR	16 34.1		
		ePP	49 38					H:	16 29 58.5		
		eSS	57 40						72.3 N, 1.7 E, 33 km (R)		
		H:	05 39 47.7						Norwegian Sea		
			28.2 N, 52.6 E, 52 km								
			Southern Iran			21	NUR	eP	01 27 28		
							SOD	eP	01 27 36		
20	SOD	eP	08 49 32			21	NUR	eP	08 06 24	1.0	9.8
	KEV	eP	08 49 24					ePP	07 53		
		H:	08 37 47.1					eS	12 12		
			14.9 N, 60.4 W, 65 km					eSS	14 46		
			Windward Islands					eLQ	08 14.5		
									cont.		

August				August							
			T	A			T	A			
	SOD	eP	08 07 06			23	NUR	eP	03 01 53	1.0	23.8
		ePP	08 41						H: 02 56 13.3		
	KEV	eP	08 07 21	1.2	55.5				59.4 N, 30.3 W, 33 km (R)		
		eSS	17 08						North Atlantic Ocean		
			H: 07 59 17.0								
			28.3 N, 52.5 E, 54 km								
			Southern Iran								
21	SOD	eP	08 51 13			23	NUR	iP	04 53 24.4 U	1.2	36.7
								e(S)	58 06		
21	NUR	eP	16 30 38	1.0	19.8		SOD	eP	04 53 14		
	SOD	eP	16 31 12				KEV	eP	04 53 13		
									H: 04 47 46.4		
21	NUR	eP	16 54 11	1.3	33.7				59.4 N, 30.2 W, 33 km (R)		
		i	16.8 U						North Atlantic Ocean		
		eS	58 20			23	NUR	eP	15 38 34		
		eLR	16 59.9					ePP	43 14		
	SOD	eP	16 55 09					e	45 32		
		e	25					eSKS	49 18		
			H: 16 49 12.9					ePS	52 38		
			40.1 N, 40.9 E, 44 km					eSPP	53 58		
			Turkey					e	55 30		
								eSS	58 20		
								e	59 30		
21	NUR	eP	23 34 42					eSSS	16 02 40		
	SOD	eP	23 35 10					e	05 46		
								eLQ	16 10.5		
22	NUR	ePS	00 23 16					eLR	16 15		
		eSS	30 40				KEV	ePP	15 42 30		
		eSSS	34 30					e	44 53		
			H: 23 58 56.6					eSKS	48 44		
			12.2 S, 110.5 E, 35 km					ePS	51 56		
			Northwest of Australia					eSPP	53 04		
								eSS	57 14		
								eSSS	16 01 48		
									H: 15 24 05.3		
22	NUR	eP	03 15 43	0.9	8.3				6.1 S, 149.4 E, 63 km		
		e(S)	26 04						New Britain region		
	SOD	eP	03 15 11								
			H: 03 03 20.7								
			31.5 N, 114.3 W, 15 km (R)								
			Gulf of California								
22	NUR	iP	17 10 44.4	0.9	26.6	24	SOD	eP	01 45 27		
		eS	15 40						H: 01 36 24		
		eLR	17 18.7						61.2 N, 146.8 W, 47 km		
			H: 17 04 31.2						Southern Alaska		
			51.9 N, 30.0 W, 33 km (R)								
			Nort Atlantic Ridge								
						24	SOD	eP	08 42 31		
									H: 08 31 05.8		
									18.4 N, 68.8 W, 179 km		
									Mona Passage		

August						August							
				T	A					T	A		
24	NUR	eP	17 39 20	0.9	15.1	25	NUR	iP	11 17 12.7 U	0.8	14.6		
	SOD	iP	17 39 12.4					i	17.4 U				
	KEV	iP	17 39 10.1 U	0.7	11.9			i	38.4				
	H: 17 26 15.1							eS	21 34				
	0.2 N, 123.8 E, 127 km							eLQ	11 23				
	Northern Celebes							SOD	iP	11 18 11.8			
24	SOD	eP	19 09 36				KEV	iP	11 18 33.0 U	1.0	14.3		
	KEV	eP	19 09 10					eS	24 00				
	H: 19 53 59.7							H: 11 11 53.6					
	12.9 N, 120.3 E, 33 km (R)							36.1 N, 28.7 E, 50 km					
	Mindoro, Philippines							Dodecanese Islands					
24	NUR	iP	20 06 16.8	1.1	23.8	25	NUR	iP	11 48 24.4	0.8	20.4		
	SOD	iP	20 06 04.8					i	32.7 D				
	H: 19 53 59.7							SOD	eP	11 49 23			
	12.9 N, 120.3 E, 33 km (R)							KEV	eP	11 49 46	0.9	13.7	
	Mindoro, Philippines							H: 11 42 59.9					
24	NUR	eP	21 30 38	1.7	74.9			35.4 N, 28.9 E, 43 km					
	SOD	eP	21 29 21					Mediterranean Sea					
	KEV	iP	21 28 54.0	0.6	7.7								
	H: 21 24 48.0												
	86.9 N, 52.0 E, 11 km												
	N of Franz Josef Land							25	NUR	iP	13 54 00.0 U	1.1	108.5
24	NUR	iP	22 07 10.1 U	0.8	33.1			e	55 00				
		i	08 28.0					ePP	12				
		ePP	09 30					e	56 26				
		eS	15 30					eS	59 24				
		ePPS	16 36					SOD	iP	13 53 01.2 U			
		eSS	19 16					KEV	iP	13 52 41.5 D			
		eSSS	22 12					e	53 40				
	SOD	iP	22 06 22.2 U					eS	57 06				
	KEV	iP	22 06 04.1 U	0.8	22.1			eLQ	13 58.0				
		eS	13 28					eLR	13 59.0				
		eSS	17 28					H: 13 47 20.6					
		e	19 44					78.2 N, 126.6 E, 50 km					
	H: 21 56 54.2							East of Severnaya Zemlya					
	58.4 N, 150.3 W, 22 km (R)							25	SOD	eP	14 29 55		
	Gulf of Alaska							25	NUR	eP	14 42 57	0.8	20.4
25	NUR	iP	07 13 40.0	0.9	18.7			SOD	eP	14 43 57			
	SOD	eP	07 14 38					KEV	eP	14 44 18	0.9	17.1	
	H: 07 08 11.1							H: 14 37 32.5					
	35.4 N, 28.6 E, 11 km							35.7 N, 29.1 E, 24 km					
	Mediterranean Sea							Mediterranean Sea					
25	NUR	eP	08 10 18	0.9	13.6	25	SOD	eP	17 39 36				
	SOD	eP	08 11 24			25	NUR	iP	18 01 00.8	0.9	18.5		
	KEV	eP	08 11 46	1.0	10.2	25	NUR	eP	19 25 58				
	H: 08 05 01.6							H: 19 20 33.0					
	35.6 N, 29.1 E, 45 km							33.8 N, 27.9 E, 132 km					
	Mediterranean Sea							Mediterranean Sea					

August						August						
				T	A					T	A	
26	NUR	iP	03 24	56.7 D	0.9	37.0	27	NUR	eP	10 03 09	1.0	14.0
		eS	30 00					SOD	eP	10 02 19		
		eLR	03 33					KEV	eP	10 01 56		
	SOD	eP	03 25 01					H: 09 53 51.0				
	KEV	eP	03 25 04					65.3 N, 133.8 W, 33 km (R)				
	H: 03 18 44.1							Yukon Territory, Canada				
	52.1 N, 30.1 W, 33 km (R)											
	North Atlantic Ridge											
26	SOD	eP	05 48 50				27	NUR	eP	10 41 22		
								SOD	iP	10 40 32.7 U		
								H: 10 32 00				
								63.6 N, 148.2 W, 106 km				
								Central Alaska				
26	NUR	iP	05 50	25.6 U	1.0	44.0	27	NUR	iP	12 05 58.2 D	1.0	30.0
		iPP	52 47.5					SOD	iP	12 06 35.3 U		
		eS	58 34					ePP	08 22			
		eScS	59 44					KEV	iP	12 06 49.7 D	1.2	49.6
		esS	06 00 24					H: 11 58 41.3				
	SOD	iP	05 49 46.7 U					28.2 N, 55.7 E, 69 km				
	KEV	iP	05 49 33.8 U	1.0	41.4			Southern Iran				
		ePcP	50 30									
		eS	56 54									
		esS	58 48									
	H: 05 40 27.1						27	NUR	iP	13 04 12.3 U	0.6	15.0
	47.2 N, 148.4 E, 308 km (R)							eS	10 02			
	NW of Kurile Islands							eSS	12 40			
26	NUR	eP	15 12 08					SOD	iP	13 04 49.6 U		
								ePP	06 40			
26	NUR	eP	17 32 50					KEV	iP	13 05 04.0 U	1.2	93.4
	SOD	iP	17 32 03.5					ePP	07 03			
	H: 17 22 55							eSS	15 05			
	60.9 N, 147.9 W, 33 km (R)							H: 12 56 46.1				
	Southern Alaska							27.5 N, 55.9 E, 33 km				
								Southern Iran				
26	NUR	iP	23 55	28.0 D	0.8	8.6	27	NUR	eP	15 49 52		
	SOD	iP	23 54	41.2 D				SOD	eP	15 49 56		
	KEV	eP	23 54 23		1.0	18.4		H: 15 37 52				
	H: 23 45 04.5							3.0 S, 103.1 E, 506 km				
	57.3 N, 152.7 W, 18 km							Southern Sumatra				
	Kodiak Island											
27	NUR	eP	01 46 47		1.1	33.3	27	NUR	eP	19 37 20	1.3	40.9
		eS	57 02					i	24.2 D			
		eSS	02 02 26					eS	41 42			
	SOD	iP	01 46 23.4 U					SOD	eP	19 38 24		
		i	34.7					KEV	eP	19 38 48	0.9	18.8
	KEV	iP	01 46 15.3 U	1.0	36.7			eS	44 08			
		i	26.4 U					H: 19 31 56.9				
		eS	56 02					35.5 N, 28.7 E, 33 km (R)				
	H: 01 34 26.7							Mediterranean Sea				
	23.7 N, 143.6 E, 39 km (R)											
	Volcano Islands											

August				T	A	August				T	A
28	NUR	eP	01 22 01			28	NUR	eP	18 28 36		
								eS	37 56		
28	NUR	ePKP	04 53 36				SOD	eP	18 28 19		
		i	45.3 U				KEV	eP	18 28 15		
		iSKP	56 24.1				H:	18 17 03.2			
		ePKS	57 17					23.5 N, 120.6 E, 10 km			
	SOD	ePKP	04 53 33					Taiwan			
		iSKP	56 03.8			29	NUR	eP	02 50 34		
	KEV	iPKP	04 53 29.4 D	1.0	36.7		H:	02 45 29			
		ePKS	56 50					43.3 N, 0.1 E, 33 km (R)			
	H:	04 35 29.3						France			
		19.8 S, 178.2 W, 580 km (R)				29	NUR	iP	04 18 16.0 U	0.8	17.3
		Fiji Islands					SOD	iP	04 17 28.0 U		
28	NUR	eP	12 11 16	0.7	6.5		H:	04 08 03.2			
		eS	15 22					57.8 N, 156.0 W, 78 km			
	SOD	eP	12 12 21					Alaska Peninsula			
	H:	12 06 18.3				29	NUR	eP	04 33 13		
		37.9 N, 19.8 E, 61 km									
		Ionian Sea				29	NUR	eP	05 24 01		
28	NUR	iP	13 32 48.4	0.5	10.6			e	07	1.0	28.0
		eS	42 00					eLR	05 27.5		
		ePS	32				SOD	iP	05 23 02.7 D		
		e	43 20				KEV	eP	05 22 48		
		eSS	46 38				H:	05 20 19.8			
	SOD	iP	13 32 54.4					71.6 N, 3.7 W, 33 km (R)			
	KEV	eP	13 33 03					Jan Mayen			
		eS	42 23			29	NUR	eP	06 59 09		
	H:	13 21 13.5					SOD	eP	06 58 10		
		7.1 N, 95.1 E, 33 km (R)					H:	06 55 30			
		Nicobar Islands						72.3 N, 2.8 W, 33 km (R)			
								Jan Mayen			
28	NUR	eP	13 33 34	1.0	16.0	29	NUR	eP	19 43 18		
		eS	42 00					eS	47 48		
	SOD	eP	13 33 46				SOD	eP	19 44 19		
	KEV	iP	13 33 49.0 D	1.0	51.0		KEV	eP	19 44 47	0.6	10.2
		eS	42 23				H:	19 37 56.0			
	H:	13 22 05						35.2 N, 28.6 E, 63 km			
		7.6 N, 95.6 E, 33 km (R)						Mediterranean Sea			
		Nicobar Islands				30	NUR	eP	02 44 29	1.1	36.2
28	NUR	eSKP	15 03 33					eSS	55 56		
	H:	14 42 18.5					SOD	eP	02 44 33		
		24.4 S, 179.8 E, 549 km					KEV	eP	02 44 38	0.9	17.1
		South of Fiji Islands					H:	02 35 08			
28	SOD	eP	16 27 29					27.6 N, 88.3 E, 21 km			
								Sikkim			

August

T A

30 NUR eP 04 57 07
 SOD eP 04 56 05
 KEV eP 04 55 52
 H: 04 53 21.6
 71.8 N, 3.6 W, 33 km (R)
 Jan Mayen

30 NUR ePKP 22 03 40
 e 52
 SOD eSKP 22 06 40
 H: 21 44 56.9
 19.9 S, 176.0 W, 253 km (R)
 Fiji Islands

31 SOD ePKP 02 33 45
 H: 02 14 20.3
 35.2 S, 106.0 W, 33 km (R)
 Easter Island Cordillera

31 NUR eP 05 42 04
 SOD iP 05 41 43.7 D
 KEV eP 05 41 37 0.9 12.0
 H: 05 30 35.1
 25.7 N, 128.1 E, 91 km
 Ryukyu Islands

August

T A

31 SOD eP 12 47 22

31 NUR iP 19 40 58.6
 SOD eP 19 42 03

31 NUR iP 23 31 08.2 U 0.7 48.1
 SOD iP 23 30 22.8 D
 KEV iP 23 30 05.8 U 0.7 43.2
 H: 23 20 19.4
 52.4 N, 170.7 W, 33 km (R)
 Fox Islands

May 12, 1965

M. T. Porkka
 Aili Huovila

September

				T	A
1	NUR	eP	03 42 28		
	SOD	eP	03 41 19		
		e	42 48		
		e	43 16		
	KEV	iP	03 41 04.2		
1	SOD	eP	13 32 05		
1	NUR	iP	13 32 12.9 D	1.1	69.9
		e	20		
		ePP	34 20		
		eS	39 54		
		eScS	42 04		
		eSS	43 52		
		eLQ	13 46.0		
		eLR	13 49.7		
	SOD	iP	13 32 12.8		
		i	55.7		
		ePP	34 18		
	KEV	iP	13 32 16.0 D	1.0	38.8
		ePP	34 22		
		ePPP	35 32		
		eS	40 08		
		eScS	42 06		
		eSS	44 14		
		eLR	13 49.8		
		H:	13 22 36.6		
			27.2 N, 92.3 E, 33 km (R)		
			India-China border		
1	NUR	iP	17 27 39.2 D	1.0	71.1
		i	53.4 D		
		eS	36 36		
		eSS	41 24		
		e	44 32		
	SOD	iP	17 26 54.0 D		
		ePP	29 13		
	KEV	iP	17 26 37.4 D	1.0	45.5
		i	51.1 D		
		eS	34 40		
		H:	17 16 40.4		
			51.2 N, 170.6 W, 25 km (R)		
			Fox Islands		
1	SOD	eP	22 50 14		
2	SOD	eP	18 24 54		
		H:	18 12 22.9		
			7.8 N, 73.3 W, 112 km		
			Northern Colombia		

September

				T	A
3	NUR	eP	01 49 55		
	SOD	eP	01 49 31		
3	SOD	eP	02 54 25		
		H:	02 45 07.2		
			59.5 N, 144.8 W, 19 km		
			Gulf of Alaska		
3	NUR	eP	05 42 08	1.0	10.2
	SOD	eP	05 41 27		
	KEV	eP	05 41 12		
		H:	05 31 15.0		
			50.5 N, 129.5 W, 29 km		
			Vancouver Island		
3	NUR	iPKP	11 42 05.1 U	0.8	13.1
		H:	11 23 03		
			28.4 S, 177.1 W, 312 km		
			Kermadec Islands		
3	SOD	eP	11 59 34		
		H:	11 48 36.1		
			43.5 N, 127.1 W, 33 km (R)		
			Off coast of Oregon		
3	NUR	eP	12 42 06		
	SOD	eP	12 41 19		
	KEV	eP	12 41 03	0.7	6.6
		H:	12 32 00.6		
			59.4 N, 145.2 W, 35 km (R)		
			Gulf of Alaska		
3	NUR	eP	15 10 44	1.0	10.2
3	NUR	ePKP	15 56 23	1.0	18.3
		H:	15 36 46		
			30.5 S, 177.4 W, 32 km		
			Kermadec Islands		
3	NUR	eSS	17 38 36		
		eLR	18 00		
		H:	16 58 55.4		
			15.2 S, 173.5 W, 33 km (R)		
			Tonga Islands		
3	NUR	eP	21 14 14	1.2	17.3
	SOD	eP	21 13 28		
		H:	21 04 13.3		
			59.7 N, 144.0 W, 33 km (R)		
			Gulf of Alaska		

September

September

		T		A				T		A				
3	NUR eS	21	38	08				SOD eP	10	47	52			
	eSS		43	42				ePKKP	11	04	13			
	SOD iP	21	27	06.3 D				KEV eP	10	47	50			
	KEV eP	21	26	57	1.0	10.4		e		48	01			
	H: 21 14 43							ePP		51	50			
	24.6 N, 108.6 W, 33 km (R)							ePPP		54	36			
	Gulf of California							eSKS		58	28			
								eS		59	10			
4	NUR iP	03	39	43.3 U	1.1	26.5		ePS	11	00	50			
	i			48.3				eSS		05	18			
	e		41	52				e		06	16			
	ePP		42	30				eSSS		09	30			
	SOD iP	03	40	03.2 D				H: 10 34 13.1						
	KEV iP	03	40	09.0 U	1.0	111.8		4.0 S, 131.4 E, 33 km (R)						
	ePP		42	48				West New Guinea						
	H: 03 28 33.1													
	7.6 N, 36.9 W, 22 km													
	Mid-Atlantic Ridge													
4	NUR iP	03	44	38.8	1.1	96.4		4	NUR eP	18	48	21		
	i			41.7					H: 18 37 32.6					
	eS		48	50					51.7 N, 174.7 E, 33 km (R)					
	eLR	03	49.7						Near Islands					
	SOD eP	03	45	32				5	NUR iP	02	36	09.5 D	0.9	63.6
	i			35.0					epPKP		37	52		
	KEV eP	03	45	51	1.0	16.6			esPKP		38	45		
	i			54.3					SOD ePKP	02	35	52		
	H: 03 39 36.7								H: 02 17 14.4					
	39.8 N, 40.3 E, 33 km (R)								32.2 S, 179.5 E, 397 km					
	Turkey								Kermadec Islands					
4	SOD eP	08	16	44				5	NUR eP	03	08	30		
									ePKP		12	26	1.2	17.6
4	SOD eP	10	02	38					e			49		
	H: 09 50 06.6								ePP		13	06		
	24.2 N, 108.6 W, 33 km (R)								eSKS		19	05		
	Gulf of California								eSP		22	42		
									ePKKP		23	06		
4	NUR eP	10	48	03	0.8	11.7			e			24		
	e			11					eSPP			58		
	ePP		52	07					eSS		29	02		
	e		53	10					eSSS		32	44		
	e		55	14					SOD e(P)	03	08	34		
	eSKS		58	40					ePKP		12	16		
	eS		59	34					ePKKP		23	21		
	ePS	11	01	19					e			33		
	ePPS		02	07					KEV eP	03	08	02		
	e		04	04					ePP		12	32		
	ePKKP			10					e			58		
	eSS		06	24					eSKS		18	38		
	eSSS		10	06					eS		20	10		
									eSP		21	47		

cont.

cont.

September

			T	A
	ePKKP	23 27		
	e	38		
	eSS	27 20		
	eSSS	32 22		
	H: 02 53 50.6			
	5.8 S, 154.0 E, 69 km (R)			
	Solomon Islands			
5	NUR eP	06 47 09	0.5	9.5
	SOD eP	06 47 01		
	H: 06 36 59			
	26.9 N, 101.5 E, 33 km			
	Yunnan, China			
5	NUR eP	07 59 14	0.9	12.0
	SOD iP	07 58 58.1 U		
	KEV iP	07 58 55.1 D	0.7	14.4
5	NUR ePKP	12 15 17	1.0	8.2
	SOD ePKP	12 15 29		
	H: 11 55 37			
	54.0 S, 141.1 E, 33 km (R)			
	West of Macquarie Island			
5	NUR eP	12 38 40	1.0	8.2
	eS	47 52		
	ePS	48 18		
	e	51 44		
	eSS	52 12		
	eLQ	12 57		
	eLR	13 00.5		
	SOD eP	12 39 06		
	KEV eP	12 39 13		
	eS	49 06		
	eSS	53 46		
	eLR	13 02.5		
	H: 12 27 22.2			
	0.6 N, 25.9 W, 33 km (R)			
	Mid-Atlantic Ridge			
5	NUR eP	21 12 58	1.4	25.2
	SOD eP	21 14 08		
	H: 21 08 49.4			
	44.1 N, 11.1 E, 40 km			
	Northern Italy			
5	NUR eP	21 14 29	1.1	17.1
	BCIS:			
	H: 21 10 14			
	44.0 N, 11.5 E			
	Italy			

September

			T	A
6	NUR ePKP	03 47 04		
	H: 03 27 47.9			
	17.8 S, 168.2 E, 33 km (R)			
	New Hebrides Islands			
6	NUR ePKP	09 39 30		
	iSKP	42 09.4		
	ePP	17		
	SOD iSKP	09 41 48.7		
	H: 09 21 22.4			
	20.3 S, 178.9 W, 621 km			
	Fiji Islands			
6	NUR eP	10 40 34	1.1	41.0
	SOD eP	10 39 48		
	H: 10 29 51.4			
	53.9 N, 163.9 W, 33 km (R)			
	Unimak Island			
6	NUR eP	16 08 27		
	SOD iP	16 07 39.2		
	KEV eP	16 07 21		
	H: 15 58 15			
	58.7 N, 151.4 W, 33 km (R)			
	Kodiak Island			
6	NUR eP	17 27 02		
	SOD iP	17 26 13.7 U		
	e	21		
	KEV eP	17 26 04	0.9	8.5
	H: 17 16 54.6			
	59.1 N, 147.4 W, 33 km (R)			
	Gulf of Alaska			
6	NUR iP	17 46 23.2	0.7	11.7
	SOD eP	17 45 30		
	i	33.0 U		
	KEV iP	17 45 14.4 U	0.8	17.4
	H: 17 36 44.3			
	63.1 N, 147.7 W, 33 km (R)			
	Central Alaska			
6	NUR eP	18 54 14		
	e	33		
	ePP	58 15		
	eSKS	19 04 56		
	e	05 14		
	ePS	06 28		
	eSS	11 10		
	eSSS	15 10		
	e	18 56		
	eLQ	19 20.5		

cont.

September

			T	A	
SOD	iP	18 53 56.8			
KEV	eP	18 54 00			
	eSKS	19 04 32			
	eS	40			
	ePS	06 06			
H: 18 41 01.8					
10.0 N, 140.2 E, 33 km (R)					
West Caroline Islands					
6	NUR	eP 19 03 09			
H: 18 55 47.4					
38.3 N, 26.6 W, 33 km (R)					
Azores Islands					
6	NUR	iP 19 08 50.0 U	0.8	27.7	
	SOD	iP 19 08 57.0 D			
		epP 09 11			
	KEV	iP 19 09 01.1 U	0.7	19.4	
H: 18 57 20.4					
7.1 N, 93.7 E, 46 km					
Nicobar Islands					
6	NUR	iP 20 04 55.9 D	0.6	7.6	
6	NUR	ePS 21 34 54			
		ePPS 36 08			
		eSS 41 00			
		e(SSS) 45 00			
H: 21 05 48					
6.0 S, 107.1 W, 33 km (R)					
Easter Island Cordillera					
7	NUR	eP 03 50 40	0.8	8.9	
		eS 04 00 22			
	SOD	eP 03 50 26			
	KEV	eP 03 50 21			
H: 03 38 50.4					
19.9 N, 122.2 E, 28 km					
Philippine Islands					
7	NUR	eP 04 04 26	0.9	10.3	
	SOD	eP 04 03 45			
H: 03 54 05.1					
48.6 N, 153.9 E, 100 km (R)					
Kurile Islands					
7	NUR	eP 07 18 14			
	SOD	eP 07 17 24			
H: 07 07 55.4					
57.7 N, 151.5 W, 33 km (R)					
Kodiak Island					

September

				T	A
7	NUR	iP 07 52 17.0 U	0.6	14.0	
		i 20.3			
	SOD	iP 07 51 29.2 U			
		i 34.0			
	KEV	eP 07 51 11	0.7	13.1	
		i 16.8 U			
H: 07 42 02.3					
58.3 N, 152.0 W, 33 km (R)					
Kodiak Island					
7	NUR	eP 11 36 04			
H: 11 27 15					
15.7 N, 53.3 E, 33 km (R)					
Arabian Sea					
7	NUR	eP 11 36 19			
		eS 43 16			
		eSS 46 45			
		eLQ 11 49.5			
		eLR 11 51.2			
	SOD	eP 11 36 52			
	KEV	eP 11 37 08			
		ePPP 40 40			
		eS 44 44			
		eLR 11 54.4			
7	NUR	eP 15 59 12	0.4	3.4	
	SOD	eP 15 59 27			
H: 15 52 11.5					
37.1 N, 71.8 E, 168 km					
Afghanistan USSR border					
7	SOD	eP 17 18 15			
8	NUR	eP 08 07 39			
	SOD	eP 08 07 29			
		i 44.3 U			
H: 07 54 57.9					
5.8 N, 126.1 E, 177 km					
Mindanao, Philippines					
8	NUR	eP 11 01 24			
	SOD	eP 11 00 52			
8	NUR	eP 11 05 46	0.8	5.8	
	SOD	iP 11 05 13.6 U			
8	NUR	eP 13 51 48	1.0	18.0	
		eS 14 01 38			
	SOD	eP 13 51 21			
	KEV	eP 13 51 13	1.0	28.6	
H: 13 40 03.5					
29.6 N, 142.0 E, 77 km					
Honshu, Japan					

September				September			
		T	A			T	A
8	NUR eP	14 09 35		12	SOD eP	12 57 10	
					e	13 01 56	
8	NUR ePKP	17 23 36			KEV e	12 57 36	
	iSKP	26 26.2			ePS	13 10 54	
	SOD iSKP	17 26 05.4			eSS	16 26	
	H:	17 05 23.4			H:	12 43 19.0	
		20.4 S, 178.3 W, 539 km				4.4 S, 144.0 E, 120 km (R)	
		Fiji Islands				New Guinea	
8	NUR eP	20 35 50		12	NUR ePKP	15 37 34	
	i	52.6 D	0.9		SOD iPKP	15 37 24.1	
	SOD iP	20 35 39.4 U			iSKP	39 48.5	
	i	41.8 D			KEV ePKP	15 37 18	0.8 7.4
	KEV eP	20 35 38	1.0		H:	15 19 22.3	
	H:	20 22 54.2				17.4 S, 179.9 W, 561 km	
		6.9 N, 126.4 E, 33 km (R)				Fiji Islands	
		Mindanao, Philippines					
9	NUR eP	06 18 29	1.0	10.2	12	SOD eP	20 35 54
	SOD eP	06 18 03				H:	20 25 53.5
	H:	06 06 18.4					45.4 N, 149.7 E, 53 km (R)
		26.2 N, 143.7 E, 33 km (R)					Kurile Islands
		Bonin Islands			12	NUR ePKP	22 27 02
9	SOD iP	09 46 36.5 U				SOD iPKP	22 26 55.0 D
	H:	09 39 48.1				ePP	30 51
		37.5 N, 3.7 W, 15 km (R)				KEV iPKP	22 26 52.1 U
		Spain				e	28 10
						ePP	30 30
9	NUR eP	22 25 37				eSKS	33 54
	eLQ	22 33.2				eSS	49 42
	SOD iP	22 26 23.5				H:	22 07 03.2
	e(PP)	27 27					49.1 S, 164.2 E, 33 km (R)
	H:	22 19 40.5					Auckland Islands
		34.5 N, 45.8 E, 68 km			12	SOD iP	22 36 32.8 D
		Iran-Iraq border				KEV iP	22 36 30.9 D
							0.8 80.9
10	NUR eP	14 28 46			13	SOD ePKP	00 40 57
	H:	14 18 15				KEV iPKP	00 40 55.2 U
		34.5 N, 135.6 E, 388 km				H:	00 21 06.7
		Southern Honshu					49.3 S, 163.7 E, 33 km (R)
							Auckland Islands
10	SOD ePKP	17 55 55			13	SOD eP	05 34 10
	H:	17 37 08.7					
		33.0 S, 69.4 W, 80 km			13	SOD ePKP	15 27 21
		Mendoza, Argentina				KEV ePKP	15 27 19
						H:	15 07 31.9
11	SOD eP	00 35 41					49.4 S, 163.3 E, 33 km (R)
	H:	00 26 29.9					Auckland Islands
		60.3 N, 146.6 W, 38 km			13	SOD eP	16 36 33
		Southern Alaska					

September

September

				T	A					T	A
14	NUR	eP	10 28 10			15	SOD	ePKP	09 17 02		
		epP	26					H:	08 57 56.5		
	SOD	iP	10 27 23.0 U						56.4 S, 27.2 W, 33 km (R)		
		ipP	38.3 D						Sandwich Islands		
		ePcP	28 20			15	NUR	ePKP	13 03 27		
	KEV	iP	10 27 05.0 U	0.9	42.8		KEV	ePKP	13 03 10	1.1	24.3
		ipP	20.4 D					H:	12 44 12.2		
		H:	10 17 46.6						16.0 S, 172.9 W, 33 km (R)		
			56.7 N, 157.4 W, 61 km						Samoa Islands		
			Alaska Peninsula								
14	SOD	eP	13 05 41			15	NUR	eP	15 40 51		
								ePP	43 34		
14	SOD	iP	13 46 13.5 D				SOD	iP	15 40 58.9 U		
	KEV	iP	13 46 08.0 D	0.8	22.1			i	41 17.1		
		eS	56 40					ePP	43 44		
		H:	13 33 33.7					eS	50 18		
			15.0 N, 93.2 W, 64 km					ePS	54		
			Chiapas, Mexico					e	51 16		
								e	34		
14	SOD	eP	14 28 13				KEV	iP	15 41 02.9 U	1.0	418.2
	KEV	iP	14 28 14.0 U	0.9	23.9			e	23		
								e	43 20		
14	NUR	eP	15 28 30					ePP	38		
	SOD	eP	15 29 08					ePPP	45 34		
	KEV	iP	15 29 23.4	0.9	27.4			eS	50 24		
		eSS	39 26					ePS	51 02		
		H:	15 21 09.0					e	53 33		
			28.0 N, 55.8 E, 33 km (R)					eSS	55 11		
			Southern Iran					eSSS	58 20		
								eLR	16 04		
14	SOD	eP	15 58 00					H:	15 29 32.2		
		H:	15 45 22.2						8.9 N, 93.1 E, 37 km		
			15.5 N, 90.8 W, 38 km						Nicobar Islands		
			Guatemala			15	SOD	ePKP	20 42 50		
14	SOD	eP	20 50 30					H:	20 23 35.2		
		H:	20 40 26.5						54.5 S, 53.4 W, 33 km (R)		
			45.2 N, 150.3 E, 33 km (R)						South Atlantic Ocean		
			Kurile Islands			15	SOD	ePKP	21 19 56		
15	NUR	eP	05 51 04					H:	21 00 31.7		
	SOD	eP	05 50 57						58.7 S, 66.5 W, 33 km (R)		
	KEV	iP	05 50 54.3						Drake Passage		
		eSKS	06 01 09								
		eSP	03 18			15	SOD	iP	21 26 40.8		
		eSS	08 56								
		e	15 44			16	NUR	eP	01 37 34		
		H:	05 37 45.4				SOD	iP	01 37 42.4 D		
			0.1 S, 124.6 E, 33 km (R)					eS	46 58		
			Molucca Sea						cont.		

September				T	A	September				T	A
	KEV	iP	01 37 46.0	1.0	75.5	17	SOD	eP	06 07 56		
		e	38 12						H: 05 56 31		
		ePPP	42 08						28.3 N, 143.4 E, 33 km (R)		
			H: 01 26 26.9						Bonin Islands		
			10.9 N, 93.1 E, 47 km								
			Andaman Islands								
16	NUR	eP	02 00 36			17	NUR	eP	15 09 06		
	SOD	iP	01 59 49.0 U					eS	14 32		
		ePcP	02 00 54				SOD	iP	15 09 15.3 U		
	KEV	iP	01 59 30.0 U	1.2	73.0			ePcP	11 32		
		e	02 00 24				KEV	iP	15 09 20.0 D	1.2	78.8
			H: 01 50 33.9						H: 15 02 00.9		
			60.0 N, 147.1 W, 29 km						44.5 N, 31.3 W, 24 km (R)		
			Gulf of Alaska						North Atlantic Ridge		
16	SOD	eP	05 37 41			17	SOD	eP	22 17 38		
									H: 22 07 40		
									38.7 N, 71.9 W, 0 km (R)		
									Off east coast of		
									United States		
									(Accidental chemical		
									explosion)		
16	NUR	eP	15 23 09			18	NUR	eP	00 14 10		
	SOD	iP	15 22 34.8 U					eS	18 32		
	KEV	eP	15 22 23	0.7	13.1		SOD	eP	00 15 08		
			H: 15 13 01.5				KEV	eP	00 15 31	0.8	14.7
			43.7 N, 141.2 E, 166 km					eS	20 54		
			Hokkaido, Japan						H: 00 08 42.6		
									35.4 N, 28.8 E, 18 km		
									Mediterranean Sea		
16	SOD	eP	22 31 30			18	NUR	eP	08 03 55		
			H: 22 22 18				SOD	eP	08 02 37		
			59.6 N, 146.7 W, 33 km (R)					eS	04 35		
			Gulf of Alaska				KEV	eP	08 02 16		
								eS	03 55		
									H: 07 59 54.8		
									72.9 N, 55.2 E, 0 km (R)		
									Novaya Zemlya		
16	NUR	eP	22 33 43			18	SOD	eP	09 49 03		
	SOD	iP	22 33 54.3								
	KEV	iP	22 33 58.1 U	1.0	42.8						
		i	34 05.2 D								
			H: 22 23 36.3								
			22.9 N, 45.1 W, 33 km (R)								
			North Atlantic Ridge								
16	NUR	eP	22 47 24			18	SOD	iP	12 20 08.4 U		
	SOD	iP	22 46 37.5								
			H: 22 37 26.5								
			56.3 N, 162.8 E, 29 km								
			Kamchatka								
17	SOD	eP	02 15 50			18	NUR	eP	13 18 52	0.6	12.5
			H: 02 06 27				SOD	eP	13 18 55		
			59.1 N, 148.3 W, 33 km (R)						H: 13 06 00.2		
			Kenai Peninsula						5.9 S, 103.4 E, 86 km		
									Southern Sumatra		

September

					T	A
18	NUR	iP	13 20 10.8	D	1.5	140.1
		ePP	21 40			
		e	25 41			
		eS	26 10			
		eLQ	13 28.1			
		eLR	13 30.8			
	SOD	iP	13 20 26.4	D		
	KEV	eP	13 20 33		1.5	85.9
		ePP	22 10			
		eS	26 37			
	H: 13 12 42.3					
	39.8 N, 29.7 W, 20 km					
	Azores Islands					
18	NUR	eP	14 47 42			
		eS	49 47			
	SOD	eP	14 46 28			
		eS	47 33			
	KEV	eP	14 46 09			
		eS	47 02			
18	SOD	iP	19 18 35.1			
	H: 19 09 04					
	58.3 N, 151.8 W, 53 km					
	Kodiak Island					
18	SOD	eP	21 44 26			
18	NUR	eP	22 10 21			
	SOD	eP	22 10 52			
19	NUR	eP	00 46 04		0.7	12.9
	SOD	iP	00 46 20.8			
	KEV	eP	00 46 30		0.5	7.9
	H: 00 39 10.7					
	36.5 N, 70.0 E, 212 km					
	Hindu Kush					
19	SOD	eP	03 03 35			
19	NUR	eP	05 21 10			
		e	18			
		e	22 36			
		ePP	24 46			
		e	25 55			
		eS	31 35			
		ePS	33 19			
		eSS	38 10			
		eSSS	42 14			
		eLQ	05 47			
		eLR	05 51.1			

cont.

September

					T	A
	SOD	eP	05 20 58			
		i	21 08.3	U		
	KEV	eP	05 20 53		0.8	7.2
		ePP	23 50			
		eScS	31 28			
		e	44			
	H: 05 08 15.1					
	15.3 N, 94.0 W, 42 km (R)					
	Oaxaca, Mexico					
19	NUR	iP	12 15 51.1			
		iS	17 48.2			
	SOD	iP	12 14 42.9			
		iS	15 47.6			
	KEV	iP	12 14 31.4			
		iS	15 28.3			
	H: 12 13 15					
	70.0 N, 11.7 E, 33 km (R)					
	Norwegian Sea					
19	NUR	eP	19 18 53			
	SOD	eP	19 18 36			
19	NUR	eP	19 52 59			
	SOD	eP	19 52 44			
	KEV	iP	19 52 40.8	U	0.7	14.2
	H: 19 41 21.8					
	21.6 N, 120.9 E, 33 km (R)					
	Taiwan					
20	NUR	ePKP	04 53 30			
		ePP	57 50			
		ePSKS	05 07 20			
		eSPP	10 20			
		eSS	17 46			
	H: 04 33 29.4					
	49.6 S, 116.2 W, 33 km (R)					
	Easter Island Cordillera					
20	NUR	iP	14 46 59.4	U	1.0	54.0
		e	48 39			
		ipP	45.2			
		iS	55 56.0			
		esSS	58 40			
		eSS	15 00 36			
	SOD	iP	14 46 33.6	U		
		e	48 11			
		ipP	17.8			
		eS	55 07			
	KEV	iP	14 46 25.8	U	1.0	151.0
		eS	54 53			
	H: 14 36 05.3					
	30.0 N, 138.1 E, 454 km					
	South of Honshu, Japan					

September

			T	A
20	NUR	eP	19 02 17	
		eS	04 04	
		eLg	05 08	
	SOD	eP	19 02 30	
		eS	04 23	
		eLg	05 28	
		eRg	06 03	
	KEV	eP	19 02 46	
		eS	04 47	
		eLg	06 11	
	H: 18 59 55			
	62.1 N, 4.2 E, 33 km (R)			
	Norwegian Sea			

20	SOD	eP	20 54 20	
	H: 20 43 10.9			
	24.0 N, 121.8 E, 37 km			
	Taiwan			

20	SOD	eP	22 51 47	
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21	SOD	eP	03 01 27	
	KEV	eP	03 01 22	0.7 6.5

21	NUR	ePKP	04 41 25	
		i	35.2 D	
		iSKP	44 14.3	
		ePKS	45 10	
		e	46 10	
	SOD	ePKP	04 41 13	
		i	23.0 D	
		iSKP	43 54.9	
		ePKS	44 51	
	KEV	iPKP	04 41 19.3 D	
		iSKP	43 47.2	
		ePKS	44 44	
	H: 04 23 19.7			
	21.8 S, 179.6 W, 609 km			
	Fiji Islands			

21	SOD	eP	05 51 27	
	KEV	eP	05 51 25	0.9 10.3
	H: 05 37 48.9			
	7.0 S, 129.4 E, 123 km			
	Banda Sea			

21	SOD	eP	10 36 12	
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21	SOD	eP	14 27 03	
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21	NUR	eP	18 12 17	0.9 15.1
		e	47	0.8 14.4
	SOD	eP	18 13 19	
	KEV	eP	18 14 02	

September

			T	A
21	NUR	eP	18 16 56	
	SOD	eP	18 18 23	
21	NUR	eP	18 21 55	1.2 25.6
21	NUR	ePKP	18 29 51	
		i	52.6	0.8 171.4
	SOD	ePKP	18 29 32	
		eSKP	32 45	
	H: 18 10 51.6			
	30.1 S, 179.5 W, 319 km			
	Kermadec Islands			

21	SOD	iP	19 42 15.5 D	
	KEV	eP	19 42 09	0.8 5.9
	H: 19 29 25.2			
	12.1 N, 142.9 E, 33 km (R)			
	Mariana Islands			

22	NUR	iP	09 18 19.5 D	0.8 20.0
	SOD	eP	09 17 41	
	KJN	eP	09 17 35	0.8 5.9
	H: 09 07 32.8			
	43.7 N, 147.7 E, 33 km (R)			
	Kurile Islands			

22	SOD	eP	15 09 04	
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22	NUR	eP	16 36 45	
	SOD	eP	16 35 56	

22	NUR	eP	19 58 10	
	SOD	eP	19 57 58	

22	SOD	eP	20 21 19	
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23	NUR	eP	00 15 47	0.9 10.1
	SOD	iP	00 15 34.3 U	
	Moscow:			
	H: 00 04 42			
	24.2 N, 114.6 E			
	China			

23	NUR	eP	01 46 34	1.0 16.0
	SOD	eP	01 47 33	
	H: 01 41 01			
	34.3 N, 32.6 E, 61 km			
	Cyprus			

23	NUR	eP	05 10 32	
		eSS	23 58	
	SOD	iP	05 09 46.3 D	
		i	57.0	
	cont.			

September						September									
						T	A							T	A
	KEV	iP	05 09	29.5 D	0.9	42.8	24	NUR	eP	18 10	38	0.9	6.6		
		i		40.2					H:	17 59	53.2				
		ePcP	10 27							40.3 N,	141.6 E,	104 km			
		ePP	11 33							Honshu, Japan					
		ePPP	12 57				25	NUR	iP	15 53	10.3 U	0.9	59.8		
		ePS	17 36						eS	16 01	56				
		eSS	21 22						eSS	06 18					
		eLR	05 26						eLR	16 13.4					
	H:	04 59	47.4						SOD	iP	15 52	25.8 U			
		53.6 N, 163.9 W,		29 km					KEV	eP	15 52	13	0.8 11.8		
		Unimak Island							H:	15 42	17.9				
23	NUR	eP	06 29	45	1.0	12.0				50.3 N, 176.6 E, 30 km (R)					
	SOD	eP	06 28	59					Rat Islands						
	KEV	eP	06 28	41	0.5	5.4									
	H:	06 18	57.4												
		53.7 N, 163.6 W,		13 km											
		Unimak Island						25	NUR	eP	16 42	49			
									H:	16 32	23				
										56.7 N, 152.8 W, 33 km (R)					
										Kodiak Island					
23	SOD	iP	17 30	50.5											
	KEV	eP	17 30	48											
	H:	17 18	12.1												
		5.8 N, 126.4 E,		132 km											
		Mindanao, Philippines						25	NUR	iP	17 35	29.4 D	0.9 32.2		
									SOD	iP	17 34	42.6 D			
									KEV	iP	17 34	25.5	0.8 17.6		
	H:	17 24	44.9						H:	17 24	44.9				
		53.6 N, 163.9 W,		33 km (R)						Unimak Island					
24	SOD	eP	09 43	36											
	H:	09 34	26.5												
		60.9 N, 143.7 W,		7 km											
		Southern Alaska						25	NUR	iPKP	23 46	40.9 U	1.0 160.4		
									i		47.2 D				
									ipPKP	48 24.1					
24	NUR	eP	10 55	18	1.1	9.5			esPKP	49 13					
									SOD	ePKP	23 46	17			
										eSKP	49 25				
24	NUR	eP	13 28	08						ePP	38				
	SOD	eP	13 29	30						KEV	eSKP	23 49	20		
										H:	23 27	49.7			
										30.7 S, 179.9 W, 424 km					
										Kermadec Islands					
24	NUR	eP	14 11	10											
		eS	20 43												
		eLQ	14 30.2												
	SOD	iP	14 10	35.8 D											
	KEV	eP	14 10	21	1.0	7.7									
	H:	13 59	36.8												
		43.5 N, 127.5 W,		14 km											
		Off coast of Oregon						26	NUR	eP	00 54	36	0.8 267.4		
									i		37.2 U				
									e	43					
									ePcP	56 06					
									ePP	32					
24	NUR	eP	14 47	10	0.9	15.1			eS	01 01	27				
	SOD	iP	14 46	48.2 D					eScS	04 26					
	KEV	iP	14 46	46.0 D	0.7	18.5			eSS	05 00					
	H:	14 34	48.0						eLQ	01 06.2					
		20.7 N, 144.6 E,		146 km (R)					SOD	iP	00 54	45.8 U			
		Mariana Islands								ePP	56 36				
24	NUR	eP	15 48	09	1.0	14.0									

cont.

September			T	A	September			T	A
29	NUR eP	13 58 54			30	SOD iP	09 05 28.3		
	SOD eP	13 58 24			30	SOD eP	10 50 53		
	H: 13 47 24.3					H: 10 38 28.9			
	33.3 N, 141.9 E, 41 km					0.1 S, 97.8 E, 33 km (R)			
	Honshu, Japan					Southwest of Sumatra			
29	NUR ePKP	14 19 37	1.0	38.0	30	NUR iP	13 17 51.8 U		
	ePKS	23 16			30	NUR eP	19 25 15	1.0	23.8
	ePSKS	32 30				SOD iP	19 24 45.2 D		
	ePPS	34 48				H: 19 14 08.0			
	eSS	40 34				35.6 N, 139.3 E, 79 km			
	eSSS	45 32				Honshu, Japan			
	eLQ	14 55.4			30	NUR iP	20 37 40.2 D	1.0	37.6
	SOD ePKP	14 19 37				SOD iP	20 36 52.2 U		
	H: 14 00 14.9					i	37 02.3		
	20.4 S, 174.4 W, 29 km (R)					H: 20 27 24.1			
	Tonga Islands					58.4 N, 151.3 W, 17 km			
						Kodiak Island			
29	NUR eP	15 23 26							
	SOD iP	15 23 30.4							
29	NUR eP	21 56 21	1.0	39.6					
	SOD iP	21 55 56.2 U							
29	NUR eP	22 36 21							
	SOD eP	22 37 33							
	H: 22 30 48.4								
	34.3 N, 23.0 E, 33 km (R)								
	Mediterranean Sea								
30	NUR iP	04 45 15.0	1.0	25.7					
	eS	49 40							
	eLQ	04 51.1							
	SOD iP	04 46 14.7							
	H: 04 39 44.0								
	34.5 N, 23.4 E, 43 km								
	Crete								

May 13, 1965

M. T. Porkka
Aili Huovila

October

October

		T	A			T	A
1	SOD iP 11 11 49.7 H: 11 00 48.3 43.5 N, 126.9 W, 33 km (R) Off coast of Oregon			3	NUR eP 13 49 31 SOD iP 13 48 41.0 H: 13 39 39.9 61.4 N, 147.1 W, 48 km (R) Southern Alaska	1.0	31.4
1	NUR eScS 18 51 22 eSS 54 50 eSSS 57 40 H: 18 30 01.9 49.3 N, 128.8 W, 9 km Vancouver Island			3	NUR iP 13 49 39.7 D SOD iP 13 48 50.2 D	1.0	94.1
1	NUR eP 20 58 43	0.9	16.6	3	SOD eP 15 14 47 H: 15 05 20 59.1 N, 153.2 W, 60 km Southern Alaska		
2	NUR iP 01 08 27.0 D iPcP 09 19.1 eS 16 28 eSS 20 24 eLQ 01 23.7 SOD eP 01 07 46 H: 00 58 39.2 51.9 N, 142.9 E, 33 km (R) Sakhalin Island	1.3	118.0	3	NUR ePKP 17 20 54 H: 17 02 48.0 18.1 S, 178.8 W, 673 km Fiji Islands region		
2	NUR eSKP 04 52 33 H: 04 31 21.0 23.6 S, 179.6 W, 503 km South of Fiji Islands			3	NUR ePKP 22 59 56 e 23 00 07 H: 22 41 09.0 20.2 S, 176.3 W, 219 km Fiji Islands region		
2	NUR iP 13 19 26.6 D e 35 iPP 21 08.4 eSKS 26 23 ePS 30 40 ePPS 31 40 eSS 37 16 eSSS 42 22 eLQ 13 51.1 eLR 13 58.0 SOD ePKP 13 19 16 H: 13 00 39.7 10.5 S, 162.4 E, 68 km Solomon Islands	0.8	41.5	4	NUR eP 01 51 25 SOD eP 01 52 27 H: 01 46 54 39.4 N, 15.4 E, 261 km Southern Italy	0.9	16.4
2	NUR iP 22 33 37.9 U i 41.5 SOD iP 22 32 49.3 U H: 22 23 32.4 59.7 N, 144.5 W, 22 km Gulf of Alaska	0.8	105.8	4	NUR eP 07 09 08 eS 15 19 eSS 19 08 eLR 07 21.1 SOD iP 07 09 28.5 D H: 07 00 57.1 27.9 N, 69.2 E, 14 km India-West Pakistan		
3	NUR eP 00 57 37	1.2	53.6	4	NUR eP 23 01 59 SOD eP 23 03 06 H: 22 57 03.4 37.8 N, 20.9 E, 90 km Ionian Sea		
				5	SOD eP 03 36 02 H: 03 25 57 41.9 N, 142.2 E, 33 km (R) Hokkaido, Japan		

October

T A

5 NUR eP 03 45 49 0.7 92.7
 i 50.5 D
 e 46 12
 eS 54 22
 eScS 55 32
 eSSS 04 02 16
 eLR 04 06.1
 SOD iP 03 45 15.3 U
 KEV iP 03 45 04.1 U 0.8 31.5
 i 26.5
 H: 03 35 08.4
 42.6 N, 142.6 E, 38 km
 Hokkaido, Japan

5 NUR ePKP 14 18 30
 H: 13 58 56.9
 22.2 S, 175.8 W, 33 km (R)
 Tonga Islands

5 NUR iP 22 21 27.7 U 1.0 33.7
 i 37.8
 SOD iP 22 20 57.8 D
 KEV eP 22 20 57 0.9 29.9
 H: 22 10 16.5
 36.0 N, 141.2 E, 62 km
 Honshu, Japan,

6 NUR eP 01 47 48 0.8 11.4
 SOD eP 01 47 00
 H: 01 37 21
 56.5 N, 152.7 W, 33 km (R)
 Kodiak Island region

6 SOD eP 03 03 56
 H: 02 54 32.7
 30.3 N, 94.6 E, 33 km (R)
 Tibet

6 NUR eP 06 23 19 1.5 55.3
 eS 32 58
 eSS 38 04
 eLR 06 48.0
 SOD iP 06 23 07.4 U
 e 18
 KEV eP 06 23 03
 e 15 0.5 14.4
 ePPP 27 38
 eS 32 34
 eLR 06 47.5
 H: 06 11 32.6
 18.6 N, 119.6 E, 33 km (R)
 Philippine Islands

October

T A

6 NUR eP 07 29 08
 SOD eP 07 30 10
 6 NUR eP 07 34 18
 SOD eP 07 35 43
 6 NUR ePKP 07 37 22
 ePKS 40 40
 e 47 01
 ePPS 52 24
 eSS 58 23
 eSSS 08 02 17
 e 03 10
 eLQ 08 15.4
 eLR 08 23.2
 SOD iP 07 37 21.3 U
 KEV ePKP 07 37 18
 eSS 58 00
 H: 07 17 57.1
 36.2 S, 100.9 W, 33 km (R)
 Southern Pacific Ocean

6 NUR iP 14 34 34.0 D 0.9 39.8
 SOD iP 14 35 41.3
 KEV eP 14 36 02
 iPP 37 07.0
 H: 14 29 55.6
 40.2 N, 28.1 E, 10 km (R)
 Turkey

6 NUR iP 14 35 57.3 U 1.0 128.7
 SOD iP 14 37 04.6
 iS 41 54
 eL 45 38
 KEV iP 14 37 26.1 U 1.4 102.0
 e 58
 e 41 48
 eS 42 28
 eLR 14 45
 H: 14 31 19.2
 40.3 N, 28.2 E, 10 km (R)
 Turkey

6 NUR iP 18 28 41.6 U 1.0 37.6
 e 31 09
 iS 33.1
 i 36.3
 e 32 25
 SOD iP 18 27 46.0
 iS 29 58.6
 KEV iP 18 27 33.5 U 1.0 29.9
 eS 29 16

cont.

October

			T	A
	e	45		
	i	51.2		
	H: 18 24 57.0			
	70.9 N, 5.7 W, 33 km (R)			
	Jan Mayen Island			
6	NUR ePKP	19 31 18		
	H: 19 12 12.0			
	16.1 S, 168.6 E, 21 km			
	New Hebrides Islands			
6	NUR eP	20 28 15	1.1	28.2
	SOD iP	20 28 26.2 D		
	KEV iP	20 28 32.1 D	0.8	20.0
	H: 20 19 34.1			
	29.3 N, 80.9 E, 27 km			
	Nepal-India border			
7	SOD eP	01 00 47		
	H: 00 54 18.0			
	53.0 N, 36.2 W, 33 km (R)			
	North Atlantic Ocean			
7	NUR eP	23 12 35		
	SOD eP	23 13 39		
	H: 23 07 52.0			
	40.1 N, 28.2 E, 32 km			
	Turkey			
8	NUR iP	17 04 11.3 D	0.8	21.6
	SOD iP	17 03 25.5		
	H: 16 53 23.0			
	52.8 N, 168.0 W, 33 km (R)			
	Fox Islands			
9	NUR iP	12 54 02.0 D	0.8	43.2
	SOD iP	12 53 37.1 D		
	KEV iP	12 53 29.4 D	0.7	28.2
	H: 12 43 04.5			
	28.4 N, 138.8 E, 520 km			
	Bonin Islands			
9	NUR eP	19 39 12	1.1	35.3
	SOD iP	19 39 10.8 D		
	epP	55		
	KEV iP	19 39 09.5 D	0.9	43.4
	H: 19 26 39.7			
	6.8 N, 73.0 W, 157 km			
	Northern Colombia			
9	NUR iP	20 06 02.0	1.0	47.5
	e	10		
	SOD iP	20 05 14.6 U		
	i	21.1		
	cont.			

October

			T	A
	KEV eP	20 04 56	0.9	13.4
	e	05 06		
	H: 19 55 34.7			
	57.0 N, 151.9 W, 17 km			
	Kodiak Island			
10	SOD eP	10 45 43		
10	SOD eP	11 31 31		
10	NUR iP	19 48 46.0 D	1.0	31.7
	i	50.5		
	SOD iP	19 47 57.2 U		
	i	48 02.1 D		
	ePcP	49 07		
	H: 19 38 47.7			
	60.4 N, 146.1 W, 44 km			
	Southern Alaska			
10	NUR eP	20 16 39	1.0	35.6
	i	43.8 D		
	eS	24 46		
	SOD iP	20 15 49.8 D		
	i	55.0 D		
	ePcP	16 59		
	KEV e	20 22 18		
	eS	42		
	e	26 54		
	H: 20 06 39.8			
	60.5 N, 145.4 W, 31 km			
	Southern Alaska			
11	NUR eP	00 54 39		
	H: 00 43 39			
	0.0 N, 17.8 W, 33 km (R)			
	Ascension Islands			
11	SOD eP	03 11 40		
	H: 03 01 56			
	50.9 N, 160.0 E, 34 km			
	Kurile Islands			
11	SOD eP	10 20 16		
	H: 10 06 44.9			
	19.1 N, 156.6 W, 33 km (R)			
	Hawaii region			
11	NUR eP	21 28 18		
	e	25		
	e	29 26		
	ePP	32 08		
	i	14.0		
	cont.			

October

October

T A

T A

	ePPP	33	44		
	e	35	38		
	eSKS	38	46		
	eS	39	23		
	ePS	40	04		
	e	42	06		
	eSS	45	48		
	e	51	30		
	eLQ	21	54.5		
SOD	iP	21	28 11.5		
	e		31 19		
	ePP		52		
	ePPP	34	02		
	eSKS	38	48		
	ePKKP	45	27		
KEV	eP	21	28 10		
	e		13		
	ePP	31	40		
	e		56		
	e	33	22		
	eSKS	38	40		
	eS	39	06		
	eSP	40	20		
	eSS	45	23		
	e	52	28		
	eLQ	21	53.2		
	eLR	21	59.3		
	H: 21 15 03.9				
	0.6 S, 121.7 E, 33 km (R)				
	Northern Celebes				
11	NUR eP	23	46 15	0.8	11.4
	SOD eP	23	46 02		
	H: 23 33 23.9				
	6.0 N, 126.7 E, 121 km				
	Mindanao				
12	SOD eP	06	15 48		
	H: 06 06 08.0				
	56.6 N, 152.6 W, 33 km (R)				
	Kodiak Island region				
12	NUR eP	14	21 54	1.0	11.9
	H: 14 16 29				
	35.4 N, 28.8 E, 32 km				
	Mediterranean Sea				
12	NUR iP	15	56 03.9 U	0.9	26.6
	e		23		
	i		28.2 U		
	ePP	59	32		
	e	16	06 09		
	cont.				

	eSKS	40			
	eS	07	10		
	ePS	08	17		
	eSS	13	20		
	eLQ	16	20.5		
SOD	iP	15	55 53.8		
	e		56 09		
	e		17		
	eS	16	06 44		
KEV	iP	15	55 51.2 D	0.8	14.3
	i		56 15.1		
	H: 15 42 54.7				
	3.0 N, 126.7 E, 59 km				
	Talaud Islands				
12	NUR iP	22	15 02.1 U	1.2	50.8
	ePP		17 52		
	e		26 04		
	ePPS	30	14		
	eSS	36	06		
	eSSS	41	14		
	eLQ	22	54		
	eLR	23	01.4		
SOD	ePKP	22	14 52		
	ePP		17 26		
KEV	ePKP	22	14 47		
	ePP		17 25		
	e		26 42		
	ePPS	29	33		
	eSS	35	50		
	H: 21 55 33.2				
	31.3 S, 110.8 W, 25 km				
	Easter Island region				
13	SOD iP	01	02 11.1 D		
	H: 00 49 43.2				
	8.2 N, 122.4 E, 64 km				
	Mindanao				
13	NUR iP	02	31 39.7 U	0.9	29.9
	SOD iP	02	31 01.6 U		
	KEV eP	02	30 49	0.8	11.4
	H: 02 20 49.3				
	44.4 N, 151.6 E, 33 km (R)				
	Kurile Islands				
13	NUR iP	02	31 53.3 D	0.6	42.5
	SOD iP	02	31 15.0 D		
	KEV eP	02	31 02		
13	SOD eP	05	44 51		
	H: 05 31 43				
	1.9 N, 126.5 E, 16 km				
	Molucca Passage				

October

T A

13 SOD eP 07 04 34
H: 06 57 48.7
34.0 N, 45.1 E, 96 km
Iran-Iraq border

13 SOD eP 10 46 51

13 NUR ePS 11 07 26
ePPS 08 23
eSS 13 12
e(SSS) 17 16
eLQ 11 25
eLR 11 31.7
H: 10 38 59.3
3.3 S, 149.9 E, 59 km
Bismarck Sea

13 NUR eP 13 31 27 0.9 18.3
SOD eP 13 32 31

13 NUR eP 14 10 26 0.8 15.7
SOD iP 14 09 37.8
KEV eP 14 09 20 1.0 16.2
H: 14 00 12.3
58.5 N, 151.4 W, 33 km (R)
Kodiak Island

13 SOD eP 16 42 50

13 NUR iP 23 09 37.3 D 0.9 235.7
SOD iP 23 09 53.6 D
epP 10 24
KEV iP 23 10 02.0 D 0.9 27.0
e 11 26
H: 23 02 26
35.8 N, 71.1 E, 120 km
West Pakistan

14 NUR iP 03 16 30.7 U 0.8 19.7
eS 25 54
ePS 26 36
eSS 30 36
eSSS 33 40
SOD iP 03 16 01.3
KEV eP 03 15 49
eS 24 44
eSS 28 51
eSSS 32 19
H: 03 04 59.6
33.4 N, 141.8 E, 33 km (R)
Honshu, Japan

14 NUR eP 03 31 20
SOD eP 03 29 47
eS 31 37

cont.

October

T A

KEV eP 03 29 14
eS 30 43

14 NUR eP 17 34 52
ePP 36 56
eS 42 14
eSS 46 00
eLQ 17 48
eLR 17 50
KEV eS 17 43 56

Moscow:
H: 17 26 05
14.8 N, 54.1 E
Arabian Sea

14 SOD eP 18 00 21

14 SOD eP 18 15 18
H: 18 04 41.3
34.8 N, 138.9 E, 176 km
Honshu, Japan

15 NUR iP 11 24 04.5 D
H: 11 05 14.0
33.1 S, 179.6 E, 480 km
Kermadec Islands

15 NUR iP 20 37 36.5 D 0.9 20.2
i 51.0 U
e 38 47
ePP 40 00
ePPP 41 38
eS 46 26
ePS 47 06
eSS 50 52
eSSS 53 40
eLR 20 58.0

SOD iP 20 36 58.0 U
KEV iP 20 36 45.7 D 1.0 39.8
i 37 52
ePP 38 42
ePPP 40 23
eS 44 44
eScS 46 36
eSS 49 00
e 51 27

H: 20 26 53.5
44.7 N, 149.8 E, 49 km (R)
Kurile Islands

15 NUR eP 20 46 16
H: 20 35 33
44.8 N, 149.6 E, 33 km (R)
Kurile Islands

October				October				
			T	A			T	A
16	NUR eP	11 01 45	0.6	17.4	SOD eP	19 17 01		
	SOD eP	11 01 07			eS	18 51		
	H:	10 50 59.1			KEV eP	19 16 30		
		44.4 N, 149.5 E, 35 km			eS	18 01		
		Kurile Islands			i	19 11.5		
16	NUR eP	11 02 18	0.5	19.5	16 NUR eP	23 53 34		
	SOD eP	11 01 40			H:	23 42 45.3		
	KEV eP	11 01 27	0.9	10.0		44.1 N, 149.1 E, 33 km (R)		
						Kurile Islands		
16	NUR eP	11 09 18	0.7	12.7	17 NUR eP	01 10 57		
	SOD eP	11 08 39			SOD eP	01 10 30		
	H:	10 58 30.6			H:	00 59 34.5		
		44.1 N, 149.5 E, 25 km				32.5 N, 140.3 E, 86 km		
		Kurile Islands				Honshu, Japan		
16	NUR eP	11 35 26			17 NUR ePKP	01 57 12		
	SOD eP	11 34 48			e	23		
	H:	11 24 41.5			ePP	58 24		
		44.6 N, 149.5 E, 33 km (R)			ePS	02 07 30		
		Kurile Islands			e	08 15		
16	NUR eP	12 14 51	0.5	22.1	eSS	14 08		
	SOD eP	12 14 12			SOD ePKP	01 57 15		
	H:	12 04 05.3			KEV ePS	02 06 50		
		44.6 N, 149.5 E, 33 km (R)			H:	01 38 36.0		
		Kurile Islands				7.0 S, 155.8 E, 58 km		
						Solomon Islands		
16	NUR eP	12 29 39	0.5	18.2	17 NUR eP	02 10 10		
	SOD eP	12 29 01			SOD eP	02 09 20		
	H:	12 18 54.4			H:	02 00 03.3		
		44.6 N, 149.5 E, 33 km (R)				59.5 N, 145.5 W, 33 km (R)		
		Kurile Islands				Gulf of Alaska		
16	NUR iP	12 48 13.6	0.7	22.9	17 NUR iP	03 30 29.0 U	0.8	18.6
	SOD eP	12 47 35			SOD iP	03 30 23.3 U		
	H:	12 37 26.8			KEV iP	03 30 22.1	1.1	45.0
		44.3 N, 149.4 E, 33 km (R)			H:	03 17 28.1		
		Kurile Islands				0.7 N, 119.3 E, 62 km		
						Northern Celebes		
16	NUR eP	13 40 16			17 SOD eP	03 45 01		
	SOD eP	13 39 38			17 NUR eP	06 56 01		
	KEV eP	13 39 25	0.9	8.4	H:	06 45 15		
	H:	13 29 30.6				44.5 N, 149.4 E, 33 km (R)		
		44.4 N, 149.5 E, 33 km (R)				Kurile Islands		
		Kurile Islands			17 NUR eP	09 55 55	0.8	14.3
16	NUR eP	19 18 35			eS	10 00 20		
	eS	21 39			e	44		
		cont.			eLQ	10 01.3		
						cont.		

October

October

				T	A					T	A
	SOD	iP	09 56 56.0			18	NUR	eP	12 45 12		
	KEV	eP	09 57 17	0.9	10.0			i	13.4 U		
	H: 09 50 29.5							epP	47 14		
	35.0 N, 25.4 E, 33 km (R)							e	25		
	Crete							isP	48 27.0		
17	NUR	eP	10 24 47					ePKP	49 28		
	SOD	eP	10 24 09					epPP	51 18		
	H: 10 14 02.7							eSKS	54 56		
	44.5 N, 149.9 E, 33 km (R)							eSKKS	55 30		
	Kurile Islands							eS	54		
								eSP	57 34		
17	NUR	iP	12 18 45.2 D	0.6	18.6			ePS	58 44		
	SOD	iP	12 18 14.3 D					esS	59 48		
	KEV	iP	12 18 04.5	0.9	15.0			ePKKP	13 01 23		
	H: 12 07 30.6							eSS	02 54		
	35.8 N, 141.3 E, 45 km							eP'P'	09 40		
	Honshu, Japan							e	11 33		
								e	13 09		
							SOD	eP	12 45 04 D		
17	NUR	eS	15 06 02					i	05.2		
	SOD	eP	14 58 04					ipP	47 20.2		
	KEV	eP	14 58 07	1.2	45.4			i	30.8		
	H: 14 48 10.9							isP	48 05.0		
	26.7 N, 44.6 W, 33 km (R)							ePKP	49 09		
	North Atlantic Ridge							epPP	51 12		
18	NUR	eP	03 03 01					eSKS	54 49		
								eSKKS	55 21		
18	NUR	eP	06 27 21					eS	42		
	SOD	iP	06 26 43.5					iPKKP	13 01 23.5		
	H: 06 16 35.2							i	28.0		
	44.4 N, 149.7 E, 33 km (R)							epPKKP	03 45		
	Kurile Islands							e	04 13		
18	NUR	eP	09 17 06	1.2	33.8			eP'P'	09 43		
		e	19 12				KEV	iP	12 45 05.0	1.0	67.7
		ePP	40					epP	47 10		
		eS	25 50					e	32		
		ePS	26 16					esP	48 05		
		eSS	30 04					ePKP	49 16		
		eSSS	33 02					epPP	51 10		
		eLQ	09 34.2					ePPP	52 05		
		eLR	09 38					eSKS	54 45		
	SOD	eP	09 17 34					eSKKS	55 20		
	KEV	eP	09 17 51	1.7	161.5			eS	40		
		eS	27 02					eSP	57 06		
		eSP	24					ePS	58 18		
		eSS	31 20					esPS	13 00 52		
		eLR	09 40.5					ePKKP	01 28		
	H: 09 06 26.0							eSS	02 30		
	2.9 N, 65.7 E, 33 km (R)							eSSS	06 10		
	Carlsberg Ridge							H: 12 32 24.1			
								7.0 S, 124.0 E, 574 km			
								Banda Sea			

October						October						
				T	A					T	A	
18	NUR	eP	13 27 14	0.6	6.2	19	NUR	eP	16 39 51	0.9	10.0	
		e	28 46				SOD	iP	16 39 03.2 U			
		ePcP	29 44	0.7	6.4			i	08.1			
	SOD	eP	13 27 57				KEV	eP	16 38 44			
		ePP	29 31				H:	16 29 49.1				
		ePcP	30 00					59.7 N, 148.7 W, 53 km				
	KEV	iP	13 28 12.6	0.9	20.0			Kenai Peninsula				
		ePcP	30 10	0.9	16.7							
	H:	13 20 20.3					19	NUR	eP	21 49 15	0.8	8.6
		29.7 N, 50.8 E, 33 km (R)						H:	21 38 28.8			
		Southern Iran							44.2 N, 149.3 E, 33 km (R)			
									Kurile Islands			
18	NUR	eP	21 32 46			21	NUR	eP	02 25 33			
	SOD	eP	21 33 24				H:	02 13 49				
		ePP	35 06					30.0 N, 141.2 E, 33 km (R)				
	KEV	eP	21 33 39	1.0	17.9			Honshu, Japan				
	H:	21 25 29.9					21	SOD	e(P)	06 19 30		
		28.0 N, 54.7 E, 61 km							e(S)	21 20		
		Southern Iran						KEV	e(S)	06 20 29		
18	NUR	eP	21 55 05	1.0	9.9		21	NUR	eP	07 49 37	0.8	9.9
	SOD	eP	21 54 16					eScS	59 28			
	H:	21 45 10.4						eSS	08 03 30			
		60.3 N, 152.3 W, 96 km						eLR	08 10.5			
		Southern Alaska						SOD	eP	07 49 02		
18	NUR	eP	22 42 39					H:	07 38 31.0			
		e	43 33						44.8 N, 111.6 W, 33 km (R)			
	SOD	eP	22 43 22						Hebgen Lake region			
		e	44 25				21	NUR	iP	14 43 11.5	0.7	13.9
	KEV	eP	22 43 38	0.9	21.7			SOD	iP	14 42 23.2 U		
	H:	22 35 45.5						H:	14 32 57.6			
		29.7 N, 51.0 E, 36 km							58.5 N, 151.9 W, 33 km (R)			
		Southern Iran							Kodiak Island			
18	NUR	ePKP	22 49 43	0.8	7.2	21	NUR	eP	16 18 38			
		eSKP	52 15									
	SOD	iSKP	22 51 54.2				21	NUR	eP	17 30 38	0.6	6.1
	H:	22 31 37.7						SOD	eP	17 30 54		
		19.4 S, 179.1 W, 666 km						KEV	eP	17 31 03		
		Fiji Islands						H:	17 23 33.7			
18	NUR	eP	23 03 14	0.8	7.2				35.9 N, 71.3 E, 181 km			
									West Pakistan			
19	NUR	eP	00 05 28			21	NUR	iP	23 18 54.2 D	1.0	49.0	
	H:	23 52 34.3						e	19 42			
		5.9 S, 105.0 E, 79 km						ePP	21 02			
		Sunda Strait						ePPP	22 14			
19	NUR	eP	02 24 20	0.8	8.6			eS	26 30			
	H:	02 15 58.1						e	41			
		31.4 N, 79.0 E, 33 km (R)						eSS	30 24			
		Tibet-India border						SOD	iP	23 18 53.0 U		
										cont.		

October

October

October						October					
				T	A					T	A
KEV	iP	23 18	56.0 U	1.0	125.2	KEV	iP	02 07	08.8	1.0	115.4
	ePP	21 05					e		15		
	ePPP	22 20					e		34		
	eS	26 40					e	09	00		
	e	27 26					eS	16	14		
	eScS	28 40					eScS	17	20		
	eSS	30 28					eSS	20	15		
	eLR	23 36					eLQ	02	24		
							eLR	02	28		
H: 23 09 18.8						H: 01 56 03.2					
28.1 N, 93.8 E, 37 km						19.8 N, 56.0 W, 31 km (R)					
India- China border						North Atlantic Ocean					
22	NUR	eP	03 13	01		23	NUR	iPKP	09 58	32.8 D	0.8 32.4
	SOD	iP	03 12	28.9							
	H: 03 02 16.7						H: 09 39 06.2				
	40.4 N, 138.7 E, 33 km (R)						28.2 S, 177.3 W, 68 km				
	Eastern Sea of Japan						Kermadec Islands				
22	NUR	iP	10 05	46.0 U	0.8 22.6	23	NUR	iP	11 18	49.4 D	1.0 43.1
	SOD	iP	10 05	15.0 U			SOD	iP	11 18	09.4 D	
	KEV	eP	10 05	11			KEV	iP	11 17	56.8 D	0.8 33.1
	H: 09 54 36.9						H: 11 08 03.1				
	36.7 N, 141.1 E, 40 km (R)						45.2 N, 152.0 E, 33 km (R)				
	Honshu, Japan						Kurile Islands				
22	NUR	eP	12 49	58	1.1 23.2	23	NUR	eP	21 17	06	
	SOD	iP	12 49	35.2				i		08.6 D	0.8 47.9
	KEV	eP	12 49	23				ePcP		38	
	H: 12 37 45.8							eScS	26	03	
	23.6 N, 142.7 E, 86 km							e(SS)	30	50	
	Volcano Islands							e(SSS)	33	22	
22	NUR	eP	16 11	37	0.9 18.0			eLQ	21	34.0	
	SOD	iP	16 11	17.0			SOD	iP	21 16	30.0	
	KEV	eP	16 11	09			KEV	iP	21 16	18.0 U	0.9 33.6
	Nuclear explosion, Nevada							iPcP	17	09.0	
23	NUR	iP	02 07	05.1 U	1.1 109.0			eS	24	16	
		i		11.0 D			H: 21 06 24.2				
		e	08	12			44.0 N, 147.5 E, 45 km (R)				
		i(PP)	09	26.0			Kurile Islands				
		i	10	06.9							
		e	14	04			24	NUR	iP	00 50	57.2 0.9 17.3
		eS	16	05				SOD	eP	00 50	19
		ePS		19			H: 00 40 09.4				
		eScS	17	12			44.2 N, 149.3 E, 33 km (R)				
		e	18	02			Kurile Islands				
		eSS	20	04							
		eLQ	02	23.5			24	NUR	iP	06 57	58.3 D 0.8 25.4
SOD	iP	02 07	08.0						i	58	06.1 U
		i	08	12.0					ePP	59	26
		e(PP)	09	17			cont.				
		ePS	16	27			cont.				

October				October			
	T	A		T	A		
SOD eP 06 58 13 H: 06 51 01.9 38.8 N, 71.0 E, 57 km Afghanistan-USSR border				26 NUR eP 14 36 12 i 18.8 U 1.0 23.5 SOD iP 14 36 02.8 i 08.2 H: 14 22 57.8 2.2 N, 126.8 E, 48 km Molucca Passage			
24 SOD eP 08 57 28 i 35.5 H: 08 46 25.0 24.8 N, 122.1 E, 63 km Taiwan region				26 NUR iP 14 43 16.6 U 0.8 26.8 SOD iP 14 42 29.2 U KEV iP 14 42 11.6 U 0.8 21.6 H: 14 32 49.3 56.8 N, 152.3 W, 33 km (R) Kodiak Island region			
24 NUR eP 18 46 50 SOD iP 18 46 03.3 H: 18 38 25.7 66.0 N, 145.5 E, 33 km (R) Eastern Siberia				26 NUR iP 15 24 56.2 U 0.8 46.5 SOD iP 15 24 44.1 U e 50 KEV eP 15 24 43 H: 15 16 47.7 42.9 N, 94.4 E, 33 km (R) Northern Sinkiang, China			
25 NUR eP 02 19 58 H: 02 09 29 34.0 N, 136.6 E, 393 km Honshu, Japan				26 NUR iP 20 19 14.7 D 0.8 8.5 SOD iP 20 18 56.7 H: 20 07 43 24.0 N, 123.4 E, 33 km (R) Ryukyu Islands			
25 NUR eP 08 03 54 i 57.9 U 0.9 57.4 eS 06 56 SOD iP 08 02 36.1 iS 04 33.5 KEV iP 08 02 15.2 0.5 25.7 i 17.1 U 0.4 78.7 eS 03 52 H: 07 59 58.8 73.5 N, 53.7 E, 0 km (R) Novaya Zemlya				27 NUR eP 01 00 13 27 NUR eP 01 19 17 27 SOD eP 02 52 11 H: 02 40 20.9 18.9 N, 120.9 E, 56 km Philippine Islands			
25 NUR ePKP 12 26 59 i 27 10.1 0.7 46.6 iSKP 29 46.0 ePKS 30 43 SOD ePKP 12 26 57 iSKP 29 26.8 ePKS 30 23 KEV ePKP 12 26 52 iSKP 29 19.0 H: 12 08 46.9 21.7 S, 179.2 W, 534 km Fiji Islands region				27 SOD eP 19 12 32 H: 19 03 14.9 59.6 N, 144.4 W, 33 km (R) Gulf of Alaska			
25 NUR eP 23 03 07 0.7 12.7 SOD iP 23 03 22.2 D KEV eP 23 03 28 H: 22 56 08 38.7 N, 70.8 E, 33 km (R) Afghanistan-USSR border				27 NUR iP 19 49 24.9 U 1.5 165.0 e(S) 52 10 e 17 eL 19 52.6 SOD iP 19 50 48.3 U i 52 18.5 eS 54 35 KEV iP 19 51 16.6 U 1.2 131.1 eS 55 22 H: 19 46 12.0 47.8 N, 16.1 E, 39 km Austria			

October				October			
	T	A		T	A		
27	NUR ePKP	20 19 49		29	NUR eP	13 40 25	
	H:	20 00 35			SOD iP	13 40 22.8 U	
		27.6 S, 176.8 W, 168 km			KEV eP	13 40 24	0.9 18.5
		Kermadec Islands			H:	13 30 44	
						26.3 N, 96.7 E, 170 km	
						Burma	
27	NUR ePS	21 54 30		30	NUR eSS	02 51 23	
	e	56 30			eSSS	56 20	
	eSS	22 01 16			H:	02 10 37.6	
	e	50				35.0 S, 107.3 W, 33 km (R)	
	e	04 30				Easter Island	
	eSSS	05 38					
	eLQ	22 15.7		30	NUR iP	03 50 35.2	0.8 11.0
	H:	21 24 31.2			SOD eP	03 51 12	
		45.6 S, 96.1 E, 33 km (R)					
		Southeast Indian Rice		30	NUR iP	17 23 41.7 D	1.0 49.0
					SOD iP	17 22 54.0 D	
27	NUR ePKP	22 55 39	1.0 13.4		H:	17 13 13.8	
	SOD ePKP	22 55 44				56.6 N, 152.2 W, 33 km (R)	
	KEV ePKP	22 55 48	0.9 13.4			Kodiak Island	
	H:	22 36 18					
		58.5 S, 66.2 W, 33 km (R)		30	SOD eP	20 14 04	
		Drake Passage			H:	20 04 41	
28	SOD eP	00 31 42				59.2 N, 152.6 W, 33 km (R)	
	KEV iP	00 31 46.2 D	1.0 40.0			Southern Alaska	
28	NUR eP	19 07 29	0.8 11.0	31	SOD e(P)	10 38 02	
	SOD iP	19 06 52.2			e(S)	39 58	
	H:	18 56 40.5			e	41 11	
		44.3 N, 149.3 E, 19 km			KEV e(S)	10 39 00	
		Kurile Islands		31	NUR eP	15 07 01	
28	NUR iP	19 42 24.2 U	1.0 66.9		SOD eP	15 07 35	
	epP	46			H:	14 59 35.6	
	ePP	43 52				27.7 N, 55.7 E, 39 km	
	SOD iP	19 42 40.1 U				Southern Iran	
	ePP	44 14		31	NUR eP	19 07 13	0.9 14.8
	KEV eP	19 42 49	1.0 40.0		eS	17 52	
	H:	19 35 15.8			SOD e(P)	19 07 22	
		36.1 N, 71.3 E, 130 km (R)			H:	18 54 28.6	
		Afghanistan-USSR border				8.8 N, 126.6 E, 69 km	
						Mindanao, Philippine Is.	
29	NUR eP	01 25 40					
	H:	01 14 51.0					
		52.7 N, 168.7 W, 33 km (R)					
		Fox Islands					
29	NUR eP	04 40 05					
	H:	04 36 01					
		43.4 N, 19.7 E, 33 km (R)					
		Yugoslavia					

June 2, 1965

M. T. Porkka
Aili Huovila

November

November

	T	A		T	A
1 NUR eSKP 03 18 12 SOD eSKP 03 17 54 H: 02 56 41.4 25.1 S, 179.7 W, 459 km South of Fiji Islands	0.8	12.0		1 NUR ePKP 17 02 29 H: 16 43 41 27.3 S, 178.5 W, 366 km Kermadec Islands	
1 NUR eP 05 06 36 eS 15 28 eSS 20 11 eLR 05 25.0 SOD eP 05 05 52 H: 04 55 47.4 51.8 N, 130.8 W, 33 km (R) Queen Charlotte Islands	1.0	13.7		2 NUR eP 07 04 30 eS 15 52 eSP 17 18 ePPS 18 08 eSS 22 49 eLQ 07 32 eLR 07 37 SOD eP 07 04 29 H: 06 50 58.2 4.1 S, 76.9 W, 91 km Northern Peru	
1 NUR iP 05 27 54.6 U SOD iP 05 27 43.2 U H: 05 15 48.4 13.7 N, 120.6 E, 94 km Mindoro, Philippine Is.	0.8	16.9		2 NUR eP 23 03 45 H: 22 59 35.3 44.3 N, 11.6 E, 33 km (R) Northern Italy	
1 NUR eP 06 57 46 SOD eP 06 57 04 H: 06 46 54.1 51.7 N, 175.4 W, 20 km (R) Andreanof Islands	0.9	14.8		3 NUR iP 00 39 28.6 D SOD iP 00 38 51.0 D KEV eP 00 38 38 H: 00 29 41.8 47.1 N, 144.6 E, 353 km Sea of Okhotsk	0.6 0.8 21.6
1 NUR iP 12 39 16.5 D epP 37 e 40 14 e 42 58 ePP 43 16 ePPP 45 22 eSKS 49 38 eS 50 15 esS 54 ePKKP 56 25 eSS 40 e 57 25 eSSS 13 00 21 eLQ 13 04.1 eLR 13 09.0 SOD iP 12 39 05.5 D epP 26 i 48.2 ePP 42 51 KEV eP 12 39 03 epP 24 e 41 ePP 43 00 eSKS 49 28 e(S) 46 esS 50 25 H: 12 26 06.2 3.1 N, 128.1 E, 65 km North of Halmahera	1.1	41.9		3 NUR iP 02 16 55.0 U SOD iP 02 16 25.2 U KEV eP 02 16 14 H: 02 05 40.4 34.5 N, 140.3 E, 86 km Honshu, Japan	0.9 29.5
				3 NUR eP 06 13 04 H: 06 05 33.1 31.6 N, 66.4 E, 38 km Afghanistan	
				3 NUR eP 06 21 30 H: 06 14 31 32.4 N, 59.1 E, 33 km (R) Iran	
				3 SOD eP 12 56 00 H: 12 43 04.7 0.1 N, 123.7 E, 149 km Northern Celebes	

November

November

				T	A					T	A
3	NUR	eP	15 06 26	1.0	19.6	7	NUR	iP	01 02 20.0 D	0.5	9.0
	SOD	eP	15 05 51				SOD	iP	01 02 25.0 D		
	H:		14 55 40.1				KJN	iP	01 02 16.7 D	1.0	18.2
			44.6 N, 149.0 E, 20 km				H:		00 50 08		
			Kurile Islands						2.0 N, 99.7 E, 33 km (R)		
									Northern Sumatra		
3	NUR	iP	17 42 13.3 D	0.8	38.1	7	SOD	iP	01 39 01.0		
	SOD	eP	17 42 57			7	SOD	eP	10 39 45		
	H:		17 36 09.5			7	NUR	eP	14 59 55		
			36.0 N, 50.6 E, 33 km (R)				SOD	iP	14 59 18.7 U		
			Iran				KJN	eP	14 59 32		
							KEV	eP	14 59 05		
							H:		14 49 13.4		
									45.5 N, 150.3 E, 33 km (R)		
									Kurile Islands		
4	NUR	iP	03 47 40.2 D	0.7	22.7	7	NUR	eP	18 49 56	0.9	16.4
	H:		03 37 35.9				i		59.1 U	0.7	21.4
			54.9 N, 162.6 E, 49 km				eS	19 00 10			
			Kamchatka				e	02 00			
							eSS	05 13			
							e	08 08			
							eLQ	19 11			
							eLR	19 17			
							SOD	eP	18 50 00		
							i		04.5 D		
							KJN	eP	18 49 53		
							i		54.4 D	1.4	90.4
							eS	19 00 08			
							KEV	eP	18 50 02		
							i		06.0	1.0	58.8
							H:		18 37 43.7		
									0.4 N, 100.1 E, 107 km		
									Northern Sumatra		
5	SOD	iP	10 07 56.2 U			7	NUR	eP	22 10 15		
5	SOD	iP	15 11 25.6				SOD	eP	22 10 32		
5	NUR	eP	21 01 11				H:		22 03 18.8		
	SOD	iP	21 02 13.9 U						36.5 N, 70.8 E, 215 km		
	H:		20 55 42.9						Hindu Kush		
			35.1 N, 24.2 E, 10 km								
			Crete								
6	SOD	eP	08 18 32			8	NUR	ePKP	01 45 12	0.6	12.2
6	NUR	iP	10 04 04.0				H:		01 25 36		
	eS		12 50						32.2 S, 178.8 W, 33 km (R)		
	eSS		17 04						Kermadec Islands		
	eLQ		10 22								
	SOD	eP	10 03 26								
	i		28.9 U								
	KJN	eP	10 03 41			8	NUR	ePKP	03 04 01		
	KEV	eP	10 03 15				ePP		07 22		
	eS		11 21				eSKS		11 23		
	eSS		15 25				eSKKS		14 18		
	H:		09 53 22.4				ePSKS		18 10		
			44.4 N, 149.0 E, 60 km (R)								
			Kurile Islands								

cont.

November

November

		T		A				T		A	
	e		20	14							
	ePPS		21	00							
	eSS		27	12							
	eSSS		32	22							
	eLQ	03	47.1								
SOD	ePKP	03	03	47							
KJN	ePKP	03	03	47							
	e		04	44							
	ePP		06	46							
KEV	iPKP	03	03	46.0	1.0	29.4					
	e		04	09							
	i		05	07.2							
H: 02 43 57											
49.0 S, 163.7 E, 33 km (R)											
Auckland Islands											
8	NUR	iP	10	40	21.3	0.7	10.1				
		iPP		41	34.5						
		ePcP		42	54						
		eS		45	54						
		eLQ	10	48							
SOD	eP		10	41	05						
	ePP			42	36						
KJN	iP		10	40	38.2 D	0.6	14.2				
	ePP			42	04						
KEV	iP		10	41	21.0 D	1.2	89.3				
H: 10 33 27.5											
29.7 N, 51.0 E, 40 km											
Southern Iran											
8	SOD	eP		11	12	15					
8	NUR	iP		18	07	31.0	1.0	22.9			
	SOD	eP		18	07	05					
	KJN	iP		18	07	11.9 D	0.8	15.0			
	KEV	eP		18	06	55	1.0	21.6			
H: 17 56 31.1											
34.8 N, 133.0 E, 42 km											
Honshu, Japan											
9	NUR	eP		04	58	03					
	SOD	eP		04	57	56					
		i			58.1						
	KJN	iP		04	57	54.8 D	1.1	35.4			
H: 04 44 19.9											
7.2 S, 128.2 E, 129 km											
Banda Sea											
9	NUR	iP		08	11	11.7 U	0.8	23.0			
		ipP				24.5	1.0	93.5			
		i		12	27.4						
		eS		15	26						
		e			43						
cont.											
		e			16	08					
	SOD	iP		08	11	54.3 U					
		epP				12 09					
		ePP				42					
	KJN	iP		08	11	25.8	1.0	33.3			
		epP				40					
		ePcP				14 14					
	KEV	eP		08	12	18					
H: 08 05 48.8											
39.8 N, 48.4 E, 65 km											
Northwestern Iran-USSR											
9	NUR	eP		16	21	51	1.1	33.5			
	SOD	eP		16	21	56					
	KJN	eP		16	21	47					
H: 16 12 50.6											
29.5 N, 86.0 E, 33 km (R)											
Tibet											
9	NUR	e(P)		18	55	39					
		eS		19	05	05					
		eSS				10 13					
		eSSS				13 51					
	SOD	iP		18	55	14.9 D					
	KJN	iP		18	55	15.0 D	1.0	45.6			
	KEV	eP		18	55	10	1.0	39.2			
H: 18 43 38.6											
19.3 N, 121.0 E, 33 km (R)											
Philippine Islands											
10	NUR	eP		06	17	52	1.1	45.4			
		e				18 04					
	SOD	eP		06	17	05					
	KJN	eP		06	17	28	1.0	14.8			
H: 06 07 49.6											
59.8 N, 144.3 W, 42 km											
Gulf of Alaska											
10	NUR	eP		15	54	17					
	SOD	iP		15	55	00.9 U					
	KJN	iP		15	54	32.1 U	1.1	36.1			
H: 15 47 49.3											
32.6 N, 49.1 E, 28 km											
Western Iran											
11	NUR	iP		08	11	35.3 D	1.0	61.1			
	SOD	iP		08	10	48.0					
	KJN	iP		08	11	11.5	1.0	33.1			
H: 08 01 26.1											
59.4 N, 144.6 W, 10 km											
Gulf of Alaska											

November						November					
			T	A			T	A			
11	NUR	ePKP	14 30 33			13	NUR	iPKP	22 16 57.0	1.3	69.8
			H: 14 11 05					i	17 02.2 U	1.1	178.1
			29.4 S, 178.2 W, 89 km				KJN	ePKP	22 16 53	1.0	11.4
			Kermadec Islands						H: 21 57 30		
11	NUR	eP	19 27 47						29.2 S, 178.1 W, 77 km		
			H: 19 16 57						Kermadec Islands		
			38.7 N, 140.1 E, 89 km			14	NUR	iP	04 07 06.1 U	0.9	67.1
			Honshu, Japan					ipP	25.5		
11	SOD	eP	23 49 53					iPcP	31.7		
								eS	16 04		
12	NUR	ePKP	01 31 58					eLR	04 29		
			H: 01 12 08				SOD	eP	04 06 41		
			33.0 S, 179.7 E, 8 km					i	42.0 D		
			Kermadec Islands				KJN	iP	04 06 46.6 U	0.8	84.9
12	NUR	iP	05 26 19.9 U	0.5	47.5			ipP	07 06.9		
	SOD	iP	05 25 42.9 U					i	10.8		
	KJN	iP	05 25 56.5 U	0.9	34.7			eS	15 27		
	KEV	eP	05 25 29	0.9	19.7		KEV	eP	04 06 32		
			H: 05 16 26.2					i	33.0 D	1.0	113.7
			47.1 N, 146.6 E, 328 km					ipP	52.0		
			Kurile Islands					e	15 31		
12	NUR	ePKP	09 44 51	0.8	11.5			eLR	04 26.8		
			H: 09 25 54.1						H: 03 56 06.0		
			16.7 S, 174.6 W, 190 km						33.6 N, 131.6 E, 60 km (R)		
			Tonga Islands						Kyushu, Japan		
12	NUR	ePKP	13 40 37			14	NUR	iP	06 07 51.0 U	1.0	59.5
			H: 13 21 13					SOD	06 07 21.2 D		
			29.1 S, 178.3 W, 136 km					KJN	06 07 30.6 U	1.0	79.8
			Kermadec Islands					KEV	06 07 10.5	0.8	28.2
12	NUR	eP	13 45 45						H: 05 56 47.8		
	KJN	eP	13 45 28	1.0	14.8				36.6 N, 140.3 E, 90 km		
			H: 13 34 19						Honshu, Japan		
			27.0 N, 127.1 E, 33 km (R)			14	SOD	iP	10 51 25.7 U		
			Ryukyu Islands						H: 10 42 15		
12	SOD	eP	14 08 35						60.2 N, 149.4 W, 47 km		
	KJN	eP	14 08 44						Kenai Peninsula		
			H: 13 57 58.8			15	NUR	iP	01 06 42.4 D	1.0	42.0
			36.7 N, 139.0 E, 28 km					SOD	01 06 13		
			Honshu, Japan					KJN	01 06 22.0 U	1.0	42.2
12	NUR	iP	20 08 17.2 D	0.8	23.0				H: 00 55 36.7		
	SOD	iP	20 07 43.2						36.1 N, 139.6 E, 71 km		
	KJN	iP	20 07 55.0 D	1.0	14.8				Honshu, Japan		
	KEV	eP	20 07 31	1.0	25.5	15	NUR	eP	04 47 08		
			H: 19 57 37.0					SOD	04 47 01		
			42.1 N, 142.5 E, 69 km					KJN	04 47 01.8 D	0.8	13.6
			Hokkaido, Japan						H: 04 34 30.3		
									9.4 N, 126.3 E, 62 km		
									Mindanao, Philippine Is.		

November						November					
				T	A					T	A
15	NUR	iP	06 39 16.3	0.6	10.5	KJN	iP	00 06 54.4 U	0.7	25.9	
	SOD	iP	06 40 04.1 U			KEV	iP	00 06 27.1	0.7	12.6	
	KJN	iP	06 39 35.5			H: 23 57 21					
	KEV	eP	06 40 21	0.7	10.1	47.2 N, 147.3 E, 297 km					
	H: 06 33 23.5					Kurile Islands					
	35.6 N, 45.7 E, 33 km (R)										
	Iran-Iraq border										
15	NUR	eP	09 40 41			16	NUR	iP	04 54 23.3 U	1.0	193.2
	SOD	eP	09 41 25				ipP	55 06.2			
	KJN	eP	09 40 58	0.5	6.3		isP	30.2			
		e(PP)	42 06				e	56 27			
	H: 09 33 46.7						SOD	iP	04 54 40.0 U		
	29.9 N, 51.0 E, 33 km (R)						epP	55 23			
	Southern Iran						isP	48.0			
15	NUR	iP	16 03 48.3 D	1.2	50.8		KJN	iP	04 54 23.2 U	0.9	113.8
		eLQ	16 24				ipP	55 06.7			
	SOD	iP	16 03 32.0 D				isP	30.4			
	KJN	iP	16 03 33.8 D	0.8	22.1		e	56 35			
	KEV	iP	16 03 26.5 D	0.9	29.5		iPcP	45.4			
	H: 15 52 21.5						KEV	iP	04 54 48.1 U	1.0	98.0
	24.0 N, 122.2 E, 42 km						ipP	55 32.4			
	Taiwan region						isP	56.0			
							e	57 36			
15	KJN	ePKP	17 05 38				H: 04 47 27.5				
	H: 16 45 44.8						36.3 N, 70.4 E, 225 km				
	49.5 S, 163.6 E, 33 km (R)						Hindu Kush				
	Auckland Islands					16	NUR	iP	05 32 34.0 U	1.3	103.5
15	NUR	iP	17 19 40.5 U	0.8	45.3		iPP	33 09.8			
		ePP	21 10				i	19.5			
	SOD	iP	17 19 57.1 U				e	35 27			
	KJN	iP	17 19 40.4 U	0.8	39.9		eS	36 48			
		epP	20 29				eLR	05 38.5			
		ePP	21 06				SOD	iP	05 33 28.0		
	KEV	iP	17 20 04.8 U	0.8	32.4		i	34 08.6			
		ePP	21 39				i	36 19.5			
	H: 17 12 43.9						KJN	iP	05 32 57.7 U	0.9	46.3
	36.5 N, 70.9 E, 220 km						i	33 00.4			
	Hindu Kush						e	47			
15	NUR	eP	20 10 20				e	35 34			
	SOD	iP	20 11 04.8 U				KEV	eP	05 33 45	0.9	16.4
	KJN	iP	20 10 47.8 D	0.6	16.2		e	34 24			
	KEV	eP	20 11 18				e	43			
	H: 20 03 49.6						H: 05 27 33.8				
	34.9 N, 5.2 W, 3 km						39.8 N, 39.9 E, 39 km				
	Morocco						Turkey				
16	NUR	iP	00 07 18.0	0.7	27.0	16	NUR	iP	06 06 22.0 U	0.6	41.9
	SOD	iP	00 06 40.8 U				e	07 10			
	cont.						SOD	iP	06 06 17.2 U		
							i	07 13.3			
							e	32			
							KJN	iP	06 06 09.2 U	0.6	79.2
							e	37			
							cont.				

November

T A

e 07 00
e(S) 10 52
KEV iP 06 06 19.3 0.5 28.4
e 07 16

H: 05 59 57.4
49.7 N, 78.0 E, 0 km (R)
Eastern Kazakh, SSR

16 NUR iP 12 49 07.0 D 1.0 63.0
SOD iP 12 48 27.1
KJN eP 12 48 42 0.8 24.8
KEV eP 12 48 10

H: 12 38 29.7
47.4 N, 154.2 E, 33 km (R)
Kurile Islands

16 KJN eP 14 01 05
H: 13 50 58.5
48.3 N, 154.6 E, 33 km (R)
Kurile Islands

16 SOD eP 22 14 26
e 33
KJN eP 22 15 00
i 06.1 1.0 29.6
KEV iP 22 14 06.0 U 0.9 16.4

H: 22 09 48
85.8 N, 88.3 E, 33 km (R)
North of Severnaya Zemlya

16 NUR eS 23 04 32
e 06 17
eSS 10 46
eLQ 23 19.5
SOD iP 22 53 41.6 U
i 48.1
KJN iP 22 53 39.6 D 1.0 36.5
KEV iP 22 53 41.0 0.8 16.9
H: 22 40 44.0
1.0 N, 118.8 E, 33 km (R)
Borneo

17 NUR ePKP 00 20 30
KJN ePKP 00 20 26
KEV ePKP 00 20 15
H: 00 01 17.1
16.3 S, 173.7 W, 33 km (R)
Tonga Islands

17 NUR eP 01 33 48
KJN eP 01 34 02 0.8 5.1
H: 01 26 26
27.5 N, 55.0 E, 45 km
Southern Iran

November

T A

17 NUR eP 08 30 12
e 35
iPKP 34 11.3
i 36.7
ePP 54
e 36 10
e 38 30
eSKS 40 40
e 41 09
eS 42 20
e 44
ePS 44 14
ePKKP 45 04
eSS 50 06

SOD iP 08 29 58.5
ePKP 34 05
e 27
ePKKP 45 16
i 18.6
KJN iP 08 30 02.2 D 1.0 18.2
ePKP 34 06
i 13.2
e 33
ePP 35 05
ePKKP 45 04

KEV eP 08 29 50
ePKP 34 04
ePP 20
i 44.7
e 37 16
e 38 25
eSKS 40 26
e 41 02
eS 42 01
ePS 43 29
ePKKP 45 32
eSS 48 50

H: 08 15 39.3
5.7 S, 150.7 E, 45 km
New Britain

17 NUR ePKP 11 21 28
epPKP 23 35
iSKP 24 15.5
KJN iP 11 21 24.3 U
epPKP 23 30
eSKP 24 05
KEV ePKP 11 21 18
epPKP 23 24
eSKP 52

H: 11 03 06.8
23.4 S, 179.9 W, 549 km
South of Fiji Islands

November

November

				T	A					T	A
17	SOD	iP	17 53 51.0			eSKS	59 30				
	KJN	eP	17 53 49	0.9	22.2	ePS	15 02 43				
		epP	54 23			eSS	07 58				
	H: 17 40 57.4					e	08 28				
	0.1 S, 122.9 E, 160 km					eSSS	12 44				
	Northern Celebes					eLQ	15 20				
						H: 14 34 54.5					
17	NUR	eS	19 23 50			6.0 S, 148.2 E, 49 km (R)					
		ePS	25 38			New Britain region					
		eSS	30 40			18	NUR	ePKP	22 40 17		
		eLQ	19 37.5					eSS	23 01 26		
	SOD	eP	19 13 03					e	03 12		
	KJN	eP	19 13 06					eSSS	06 32		
	KEV	iP	19 13 03.8	1.0	29.4		KJN	ePKP	22 40 18		
		eS	23 22				KEV	eSS	22 59 38		
	H: 19 00 10.4						H: 22 21 01.9				
	12.7 N, 144.9 E, 43 km						20.2 S, 174.1 W, 33 km (R)				
	Mariana Islands						Tonga Islands				
17	NUR	iP	22 56 12.5 D	0.7	8.1	19	NUR	eP	23 49 46		
	SOD	iP	22 57 10.5					e	53 22		
	KJN	eP	22 56 40					ePKP	46	1.7	71.4
	H: 22 50 53.7							ePP	54 32		
	36.7 N, 35.2 E, 37 km							e	57 00		
	Turkey							eSKS	24 00 25		
								e	47		
18	NUR	ePKP	05 20 28					ePS	04 00		
	KJN	ePKP	05 20 32	1.5	59.6			ePKKP	38		
	H: 05 01 41.4							e	06 18		
	31.2 S, 67.6 W, 8 km						SOD	eP	23 49 31		
	San Juan, Argentina							ePKP	53 44		
								eSKS	24 00 08		
18	NUR	iP	13 32 42.8 U	0.6	14.0			ePKKP	04 39		
	KJN	iP	13 32 18.0 D	0.6	14.5		KEV	ePKP	23 53 36		
	H: 13 21 47.2							e	42		
	51.7 N, 174.2 W, 12 km							ePP	54 05		
	Andreanof Islands							eSKS	24 00 00		
								e	21		
18	NUR	eP	14 49 08					ePS	03 08		
		ePP	54 03					e	05 00		
		e	55 20					eSS	09 16		
		eSKS	59 58					eSSS	13 20		
		ePS	15 03 32				H: 23 35 06.0				
		ePKKP	04 20				6.0 S, 150.8 E, 3 km				
		e	05 03				New Britain region				
		eSS	09 30			20	SOD	eP	00 20 11		
		e	10 02								
		eSSS	13 46			20	SOD	eP	02 54 15		
	SOD	iP	14 49 07.0								
		ePKKP	15 04 32			20	SOD	eP	05 00 15		
	KJN	eP	14 49 11	0.7	6.5		H: 04 50 55.3				
	KEV	ePP	14 53 14				59.6 N, 148.2 W, 33 km (R)				
		ePPP	55 32				Kenai Peninsula				

cont.

November				T	A	November				T	A
20	NUR	eP	05 01 12	1.0	14.0		eS	51 10			
	SOD	iP	05 00 24.1				eSS	55 28			
	KEV	eP	05 00 08	1.0	19.6		e	57 24			
20	SOD	eP	06 44 31				H: 23 33 08.9				
							44.6 N, 149.7 E, 33 km (R)				
							Kurile Islands				
20	NUR	eP	10 01 16	0.9	16.8						
		eS	10 20			21	NUR	eP	00 02 20	0.5	4.0
		eSS	15 14				SOD	eP	00 01 45		
		eLQ	10 18.8				KJN	eP	00 10 57		
		eLR	10 21.7				H: 23 51 35.4				
	SOD	iP	10 01 49.5				44.6 N, 149.5 E, 33 km (R)				
	KEV	eP	10 02 00				Kurile Islands				
	H:	09 50 13.5				21	NUR	eP	02 29 34		
		0.2 S, 18.2 W, 33 km (R)					eSKS	39 40			
		Mid-Atlantic Ridge					eS	40 26			
20	NUR	iP	16 45 46.3 U	0.7	6.5		ePS	41 38			
	SOD	eP	16 45 17				ePKKP	46 31			
	KJN	iP	16 45 26.3 U	0.7	7.1		eSS	48			
	H:	16 34 43					SOD	eP	02 29 25		
		35.9 N, 138.9 E, 86 km					i	27.2			
		Honshu, Japan					ipP	30 27.0			
							ePP	33 02			
20	NUR	eP	17 49 36				ePKKP	46 44			
	SOD	eP	17 50 14			KJN	iP	02 29 24.4 D	1.0	41.4	
							i	27.9			
20	NUR	eP	21 37 10				epP	30 22			
	SOD	eP	21 36 20				eSKS	39 32			
	H:	21 27 39.5				KEV	iP	02 29 24.8	0.8	16.9	
		63.7 N, 146.5 W, 80 km					eSKS	39 31			
		Central Alaska					ePS	41 12			
							eSS	46 14			
20	SOD	eP	22 44 54				H: 02 16 44.5				
							1.0 N, 124.0 E, 248 km				
20	NUR	iP	23 43 53.0 U	0.6	22.5		Northern Celebes				
	i	44 09.3				21	NUR	eP	04 13 07		
	ePPP	48 02					eS	23 10			
	eS	52 39					SOD	iP	04 13 13.9 D		
	e	53 22					KJN	iP	04 13 04.6	1.0	27.3
	eSS	57 20					KEV	iP	04 13 17.5 D	1.0	25.5
	eSSS	24 00 00					H: 04 01 02.0				
	eLQ	24 01.3					1.9 N, 96.8 E, 33 km (R)				
	eLR	24 03.0					Northern Sumatra				
	SOD	iP	23 43 16.0								
	e	33									
	e	44 15									
	KJN	eP	23 43 29	0.5	4.3						
	i	50.0				21	NUR	eP	12 51 40		
	KEV	iP	23 43 03.5 U	0.6	7.3		KJN	eP	12 51 16		
	e	28					H: 12 40 56				
	e	44 02					44.4 N, 149.7 E, 60 km (R)				
		cont.					Kurile Islands				

November						November			
			T	A				T	A
21	NUR e(P)	13 39 08			22	NUR iP	14 42 52.0 D	1.0	66.6
	SOD eP	13 38 40							
	KJN eP	13 38 45	0.7	13.2	22	SOD eP	20 24 22		
	H:	13 27 34.0				H:	20 11 53.0		
		24.2 N, 122.4 E, 60 km					18.8 N, 101.4 W, 123 km		
		Taiwan region					Guerrero, Mexico		
21	SOD eP	14 44 04			23	NUR eP	03 20 40	1.1	46.6
	H:	14 31 13.9							
		13.1 N, 144.4 E, 61 km							
		Mariana Islands							
21	NUR eP	15 47 23			23	NUR eP	04 30 27		
	SOD iP	15 47 04.3				SOD eP	04 30 31		
	KJN iP	15 47 08.6 U	1.0	34.9		KJN iP	04 30 25.1	0.7	9.7
	KEV iP	15 46 59.1 D	1.0	51.0		H:	04 17 13		
	H:	15 34 13.2					8.1 S, 108.4 E, 33 km (R)		
		12.8 N, 145.2 E, 35 km					Java		
		Mariana Islands							
21	NUR iP	22 53 03.8 U	0.7	14.2	23	NUR e(P)	07 05 49		
	SOD iP	22 53 08.0 U				SOD eP	07 05 31		
	KJN iP	22 53 00.7 U	0.8	22.9		KJN iP	07 05 30.0 D	0.7	17.4
	KEV eP	22 53 04				H:	06 57 58.5		
	H:	22 40 12					41.9 N, 86.1 E, 33 km (R)		
		4.9 S, 103.6 E, 33 km (R)					Sinkiang, China		
		Southern Sumatra							
22	NUR eP	00 12 37			23	NUR eP	19 06 39		
	eS	20 48				KJN iP	19 06 09.9 D	0.9	31.8
	ePS	21 02				H:	18 55 35.3		
	eLQ	00 27.0					36.7 N, 140.7 E, 81 km		
	SOD eP	00 12 54					Honshu, Japan		
	KJN eP	00 12 50			23	SOD ePKP	20 04 13		
	e	56				H:	19 45 09.0		
	KEV eP	00 12 55					56.0 S, 27.6 W, 33 km (R)		
	H:	00 02 33.3					South Sandwich Islands		
		24.0 N, 45.4 W, 33 km (R)							
		North Atlantic Ridge							
22	SOD eP	02 34 56			23	NUR eP	22 29 02		
	KJN eP	02 34 19				SOD iP	22 28 55.8 D		
	H:	02 28 17				KJN iP	22 28 53.8 D	1.2	64.4
		33.9 N, 24.9 E, 33 km (R)				i	57.2		
		Mediterranean Sea				i	29 44.2		
22	NUR eSKP	02 59 21				H:	22 15 47.0		
	H:	02 38 29.0					0.1 S, 124.5 E, 66 km		
		17.9 S, 178.5 W, 563 km					Molucca Sea		
		Fiji Islands region							

November

			T	A
24	NUR eP	02 44 00		
	SOD iP	02 43 42.0		
	KJN iP	02 43 44.7 D	0.7	14.0
	H: 02 32 28			
	25.0 N, 125.0 E, 33 km (R)			
	Ryukyu Islands			
24	NUR ePKP	06 53 14		
	SOD eSKP	06 55 34		
	KJN iP	06 53 15.8	0.8	11.5
	H: 06 35 14.5			
	20.2 S, 179.2 W, 660 km (R)			
	Fiji Islands region			
24	NUR eP	10 54 31		
	SOD iP	10 54 32.1		
	KJN eP	10 54 27	0.7	9.9
	e	49		
	H: 10 41 33.5			
	6.8 S, 107.4 E, 125 km			
	Java			
24	NUR iP	12 53 20.6	1.1	71.4
	i	26.1		
	i	38.1		
	ePP	56 40		
	ePPP	58 34		
	e	13 00 10		
	e	03 04		
	eS	42		
	e	05 48		
	eSS	09 21		
	ePKKP	11 52		
	eSSS	12 38		
	eLQ	13 16.2		
	SOD iP	12 53 09.1		
	iPKKP	13 11 50.0		
	KJN iP	12 53 09.3 U	1.0	81.2
	i	14.7		
	ePKKP	13 11 48		
	KEV iP	12 53 08.8	0.9	85.3
	i	20.6		
	ePP	56 20		
	ePPP	58 14		
	eS	13 03 11		
	ePS	04 05		
	e	05 53		
	eSS	08 28		
	e	11 21		
	H: 12 40 51.4			
	13.1 N, 124.7 E, 5 km			
	Luzon, Philippine Is.			

November

			T	A
24	NUR iP	13 02 59.4 U	0.8	21.6
	SOD iP	13 02 47.1 U		
	i	03 27.9		
	KJN iP	13 02 47.4 U	1.0	139.2
	i	03 32.2		
	KEV iP	13 02 43.5 U	0.9	42.6
	H: 12 50 40.2			
	13.2 N, 124.9 E, 97 km			
	Luzon, Philippine Is.			
24	SOD eP	19 55 32		
24	KJN eP	21 44 32		
	H: 21 32 20.6			
	13.3 N, 124.7 E, 63 km			
	Luzon, Philippine Is.			
25	NUR iP	08 42 48.0 D		
	SOD iP	08 42 47.0		
	i	43 17.1		
	KJN iP	08 42 39.9 D	0.8	17.0
	KEV iP	08 42 49.3 D	0.7	12.3
	H: 08 32 59.0			
	26.6 N, 96.3 E, 80 km			
	Burma			
25	SOD eP	09 36 34		
	H: 09 24 08.9			
	4.3 S, 122.2 E, 610 km			
	Celebes			
25	NUR eP	11 52 46		
	KJN eP	11 52 46	0.6	6.6
	H: 11 45 54.1			
	38.9 N, 71.0 E, 85 km			
	Afghanistan-USSR border			
25	SOD eP	21 48 46		
26	NUR iP	02 53 49.0 D	0.7	19.4
	KJN iP	02 53 37.7	1.0	25.1
26	SOD eP	04 56 03		
	KJN iP	04 55 36.2 D	0.6	10.5
	H: 04 48 55			
	33.1 N, 49.0 E, 33 km (R)			
	Western Iran			

November		T	A	November		T	A
26	NUR iP	07 14	54.9	0.7	15.5		
	H: 06 55 25 28.0 S, 177.0 W, 33 km (R) Kermadec Islands						
26	SOD eP	10 14	47				
26	NUR iP	10 32	30.0 D	0.8	15.8		
	i		35.0				
	eS	41	50				
	e	43	58				
	eSS	46	17				
	eLR	10 55					
SOD	iP	10 32	13.4 D				
KJN	iP	10 32	14.5 D	1.0	33.1		
KEV	eP	10 32	08				
	i		10.8				
	ePPP	36	25				
	eS	41	18				
	eSS	45	48				
	eSSS	48	44				
	eLR	10 53.6					
	H: 10 21 07.2 24.9 N, 122.0 E, 33 km (R) Taiwan region						
26	NUR eP	16 47	04				
	SOD iP	16 46	15.4				
	i		27.0				
	KJN eP	16 46	38				
	e		47				
	KEV eP	16 45	57				
	H: 16 36 50.6 58.7 N, 152.0 W, 33 km (R) Kodiak Island region						
26	SOD eP	19 20	44				
27	NUR iP	03 09	41.8 D				
	SOD iP	03 09	46.0 D				
	KJN iP	03 09	39.2	0.7	9.1		
27	SOD eP	03 45	51				
	H: 03 37 03 65.3 N, 151.4 W, 33 km (R) Alaska						
27	NUR eP	05 18	25	1.0	10.0		
	KJN eP	05 18	15				
27	NUR eP	05 46	43				
	SOD eP	05 46	06				
	KJN eP	05 46	20				
	H: 05 36 01.5 45.2 N, 150.9 E, 33 km (R) Kurile Islands						
27	SOD iP	05 55	17.0				
	KJN iP	05 55	00.2 D	0.5	8.4		
27	NUR iP	07 56	44.1 U	0.9	92.4		
	epP		57 10				
	SOD iP	07 55	55.0 U				
	ipP		56 21.0				
	ePcP		57 11				
	e		24				
	KJN iP	07 56	18.6 U	1.0	53.5		
	epP		45				
	KEV iP	07 55	36.0 U	0.8	28.2		
	H: 07 47 07.6 62.6 N, 151.5 W, 113 km Central Alaska						
27	NUR iP	11 10	45.0 U	1.4	69.7		
	ipP		11 31.0				
	SOD eP	11 11	02				
	epP		46				
	iPP		12 34.1				
	KJN iP	11 10	44.3	0.9	32.3		
	i		11 35.5				
	KEV iP	11 11	11.1	1.0	29.4		
	H: 11 03 48.0 36.3 N, 70.7 E, 219 km Hindu Kush						
27	NUR iP	13 58	38.9 U	0.9	97.4		
	i		59 07.0				
	SOD iP	13 58	09.4 U				
	i		39.0				
	KJN iP	13 58	18.6 U	1.0	162.4		
	KEV iP	13 58	00.1 U	1.0	51.0		
	eS	14	06 22				
	eSS		10 08				
	H: 13 47 42.7 37.9 N, 138.3 E, 36 km Honshu, Japan						
27	NUR iP	13 59	29.5				
	SOD iP	13 58	59.1				
	i		59 04.3				
	KJN iP	13 59	08.2				
	KEV iP	13 58	50.5				

November							November						
					T	A					T	A	
28	NUR	iP	13 02	18.6 D	1.0	32.0	29	NUR	eP	23 12	28		
	SOD	iP	13 01	49.3 D				SOD	iP	23 11	14.5 D		
		i		58.6				KJN	iP	23 11	47.7 D	0.8 14.4	
	KJN	iP	13 01	58.3 D	1.0	30.8		H: 23 07 42					
		i		02 07.9				80.2 N, 4.1 W, 33 km (R)					
	KEV	eP	13 01	41				North of Svalbard					
	H: 12 51 07.1						29	SOD	eP	23 50	19		
	35.5 N, 140.7 E, 72 km						30	NUR	eP	01 44	18		
	Honshu, Japan						30	NUR	iP	04 15	22.2 U	1.5 56.0	
28	SOD	eP	13 55	46				eLR	04 18	7			
	KJN	eP	13 56	19				SOD	iP	04 14	22.4 D		
28	NUR	eP	16 54	11				KJN	iP	04 14	55.6 D	1.0 22.8	
		eSP	17 06	11				eS	17 25				
		eSPP	07 44					KEV	eP	04 14	07		
		esPS	10 07					i	14.0				
		eSS	12 00					H: 04 11 42.9					
	SOD	eP	16 54	16				71.8 N, 2.7 W, 33 km (R)					
	KJN	eP	16 54	19				Jan Mayen Island region					
	KEV	eP	16 54	15	0.9	13.1	30	NUR	eP	06 37	09		
	H: 16 41 33.4							SOD	iP	06 36	59.1 D		
	7.7 S, 71.2 W, 626 km							KJN	eP	06 36	57		
	Western Brazil							i	58.2	0.7	12.9		
28	NUR	eP	17 02	07				epP	37 47				
	KJN	eP	17 02	14	1.3	49.9		H: 06 25 15.7					
	H: 16 49 30.3							13.8 N, 120.7 E, 203 km					
	8.0 S, 71.4 W, 655 km							Mindoro, Philippine Is.					
	Western Brazil						30	NUR	eP	12 35	47		
29	SOD	eP	09 23	36				SOD	eP	12 35	53		
	KJN	iP	09 23	39.9 D	1.0	18.9		i	56.3				
	H: 09 11 05.8							KJN	eP	12 35	45	1.0 13.7	
	6.8 N, 73.2 W, 171 km							KEV	e(P)	12 36	07		
	Northern Colombia							H: 12 24 09					
								6.2 N, 93.7 E, 33 km (R)					
								Nicobar Islands region					
29	SOD	iPKP	17 13	28.7			30	NUR	eP	12 39	13	0.9 30.2	
	H: 16 54 25.8							i	15.7 D	1.0	100.0		
	55.5 S, 26.0 W, 33 km (R)							i	18.0				
	South Sandwich Islands							e	31				
								e	40 47				
29	NUR	iP	21 08	20.3 D	1.0	20.0		ePP	42 07				
	SOD	iP	21 07	53.1 D				eS	48 42				
	KJN	iP	21 08	01.1 D	1.0	17.1		eScS	49 22				
		i		24.8				eSS	52 55				
	H: 20 56 39.2							e	55 14				
	31.0 N, 141.2 E, 33 km (R)							eLQ	12 57				
	South of Honshu, Japan							cont.					



November

T A

SOD eP 12 39 18
 i 21.3
 i 40.5
 eS 49 04
 KJN eP 12 39 09
 i 13.8 D 1.0 89.2
 eS 48 40
 e 48
 KEV eP 12 39 29
 i 33.0 D
 i 36.3
 ePP 42 26
 eS 49 10
 eSS 54 08
 eLQ 13 00
 H: 12 27 38.6
 6.8 N, 94.8 E, 33 km (R)
 Nicobar Islands

30 SOD eP 13 41 18
 KJN eP 13 41 10

30 NUR ePKP 16 25 52
 KJN ePKP 16 25 52
 H: 16 07 30
 23.8 S, 179.3 E, 481 km
 South of Fiji Islands

November

T A

30 NUR ePKP 19 11 30
 e 37
 iSKP 14 23.0
 SOD iSKP 19 14 06.1
 KJN ePKP 19 11 29 0.5 8.0
 iSKP 14 12.7
 H: 18 53 11.4
 24.0 S, 179.9 E, 550 km (R)
 South of Fiji Islands
 30 NUR eP 22 51 24
 e 52
 SOD eP 22 50 40
 e 51 05
 KJN eP 22 51 21
 KEV e(P) 22 50 46
 H: 22 40 46.0
 53.7 N, 167.7 W, 69 km
 Fox Islands

June 3, 1965

M. T. Porkka
Aili Huovila

Helsinki
December 1964

- 237 -

 Helsinki, Finland
 Prel. Bull. 1964

December

T A

1 NUR ePKP 05 12 09
 i 13.8 U
 ePP 14 58
 eSKP 15 30
 ePKS 50
 e 17 15
 SOD iPKP 05 12 07.0 U
 iSKP 15 10.5
 KJN ePKP 05 12 09
 i 12.0
 eSKP 15 19
 ePKS 38
 KEV ePKP 05 12 10
 H: 04 53 23.9
 18.9 S, 175.8 W, 232 km (R)
 Tonga Islands

1 NUR iP 07 44 22.5 0.9 37.0
 eS 48 02
 eLQ 07 48.5
 eLR 07 49.3
 SOD iP 07 42 59.8
 eS 45 18
 KJN eP 07 43 42 1.0 60.4
 eS 46 39
 KEV eP 07 42 28
 i 30.0 D 1.0 49.7
 eS 44 26
 H: 07 39 50.2
 79.5 N, 3.9 E, 33 km (R)
 Greenland Sea

1 SOD eP 08 28 43
 ePP 29 51
 KJN eP 08 28 34
 Moscow:
 H: 08 21 53
 37.1 N, 54.3 E
 Iran

1 KJN eP 10 26 32
 1 SOD iP 11 56 39.2
 KJN eP 11 56 29 0.8 8.5
 KEV iP 11 56 47.0 U 0.7 6.2
 H: 11 45 21
 10.6 N, 93.4 E, 33 km (R)
 Andaman Islands

1 NUR iPKP 12 06 39.0 U 0.8 72.0
 KJN ePKP 12 06 28
 H: 11 47 02.4
 30.9 S, 177.9 W, 33 km
 Kermadec Islands

December

T A

1 KJN eP 15 20 28
 2 NUR eP 08 02 30
 e 05 18
 eS 34
 SOD iP 08 00 57.5
 iS 02 48.6
 KJN iP 08 01 41.5
 i 03 55.0
 iS 04 05.0
 KEV eP 08 00 30
 i 01 54.2
 iS 56.0
 H: 07 58 27
 77.5 N, 18.5 E, 33 km (R)
 Svalbard region

2 SOD eP 08 30 07
 H: 08 20 45.6
 30.6 N, 42.0 W, 33 km (R)
 North Atlantic Ridge
 2 SOD iP 08 30 36.7 D
 KJN eP 08 30 23
 KEV iP 08 30 42.0 0.7 16.9
 H: 08 21 43.3
 29.5 N, 81.3 E, 23 km
 Nepal

2 NUR eP 12 34 48
 2 NUR eP 12 38 41 0.5 4.0
 ePP 39 52
 SOD eP 12 38 59
 KJN eP 12 38 40
 e 39 44
 H: 12 31 45
 38.9 N, 70.6 E, 33 km (R)
 Afghanistan-USSR border

2 NUR iP 13 29 13.0 U 0.9 114.2
 e 31 22
 eSS 42 38
 SOD iP 13 28 27.4 U
 iPcP 29 11.2
 KJN iP 13 28 48.6 U 1.0 73.1
 KEV iP 13 28 09.5 U 0.8 50.0
 H: 13 18 29.0
 53.8 N, 165.4 W, 35 km
 Fox Islands

2 NUR eP 15 33 44

December

T A

3 NUR eP 04 02 20
 e 03 05
 e(PP) 05 50
 eS 12 36
 ePS 13 28
 eSS 17 51
 eSSS 21 48
 eLQ 04 25.3
 eLR 04 30.0
 SOD eP 04 02 44
 i 50.7
 KJN iP 04 02 28.3 1.2 70.8
 i 35.3 U
 KEV eP 04 03 05
 eS 13 42
 eLR 04 32
 H: 03 50 01.2
 15.0 S, 66.8 E, 46 km
 Mid-Indian Rise

3 SOD iP 19 48 29.8 U

3 NUR eP 22 38 57
 SOD eP 22 39 32
 H: 22 32 38
 36.6 N, 55.6 E, 33 km (R)
 Iran

4 KJN eP 01 37 47 0.9 9.8

4 NUR eP 03 52 19
 SOD eP 03 52 53

4 NUR iP 07 48 05.3 U 1.1 45.2
 SOD iP 07 46 33.0
 eS 48 39
 e 51 26
 KJN eP 07 47 15
 i 26.3 1.0 48.7
 KEV eP 07 46 04
 e 12 0.9 23.6
 eS 47 48
 eLQ 07 48.1
 H: 07 43 47
 77.3 N, 6.4 E, 33 km (R)
 Svalbard region

4 NUR ePS 16 17 35
 eSS 24 14
 eSSS 28 07
 KEV eSKS 16 13 40
 ePPS 17 45
 cont.

December

T A

eSS 22 30
 eSSS 26 45
 H: 15 48 43.4
 6.4 S, 150.7 E, 19 km
 New Britain region

5 SOD eP 02 20 57
 KJN eP 02 21 29 1.0 14.8
 H: 02 16 13
 85.7 N, 88.7 E, 33 km (R)
 Severnaya Zemlya

5 NUR eP 05 01 16 1.3 44.3
 SOD eP 04 59 50
 KJN eP 05 00 26
 KEV eP 04 59 26
 H: 04 57 06.6
 77.4 N, 6.0 E, 33 km (R)
 Svalbard region

5 SOD eP 08 41 47
 KJN eP 08 41 53
 H: 08 29 06.6
 15.9 N, 147.1 E, 42 km
 Mariana Islands

5 SOD eP 09 39 18
 e 40 28
 KJN eP 09 38 59 0.6 4.0
 e 40 37

5 NUR eP 20 00 11
 e 18
 SOD eP 19 59 19
 KJN eP 19 59 44
 i 53.4
 H: 19 50 01.6
 59.4 N, 144.8 W, 33 km (R)
 Gulf of Alaska

5 SOD eP 21 26 26
 KJN eP 21 26 43 0.9 4.8

5 NUR eP 22 41 55
 SOD eP 22 41 10
 KJN eP 22 41 28 1.0 11.4
 H: 22 31 44.3
 54.0 N, 161.5 E, 38 km (R)
 Kamchatka

6 NUR eP 00 01 50 1.2 39.9
 eS 10 06
 cont.

December

December

				T	A		
	eLR	00 19.5					
SOD	eP	00 01 04					
KJN	eP	00 01 23	0.8	8.5			
	i	33.6 D					
KEV	e	00 01 10					
H: 23 51 38.8							
53.9 N, 161.5 E, 38 km (R)							
Kamchatka							
6	NUR	iP 00 06 09.8 D	0.8	24.5			
	i	21.8					
	eS	14 24					
	eLR	00 23.2					
SOD	iP	00 05 24.7 D					
KJN	iP	00 05 42.6 D	0.8	17.8			
KEV	eP	00 05 08	0.8	6.9			
	e	17					
	eS	12 37					
H: 23 55 59.2							
54.0 N, 161.5 E, 39 km (R)							
Kamchatka							
6	NUR	ePS 04 54 30					
	eSS	05 00 26					
KJN	eP	04 41 10	0.7	4.0			
H: 04 27 16							
2.3 S, 138.3 E, 33 km (R)							
West New Guinea							
6	KJN	eP 05 16 37					
H: 05 03 57.5							
17.9 N, 143.5 E, 13 km							
Mariana Islands							
7	NUR	eP 00 16 12					
7	SOD	eP 02 46 38					
7	NUR	iP 03 51 28.2 U	1.0	28.0			
SOD	iP	03 51 18.0 U					
KJN	iP	03 51 17.4 U	1.0	50.0			
KEV	eP	03 51 19					
H: 03 39 04.1							
12.0 N, 122.3 E, 40 km							
Panay, Philippine Is.							
7	NUR	ePKP 09 17 12	1.2	34.2			
	iPP	18 12.0					
	ePS	27 22					
	e	38					
	eSS	33 26					
	eSSS	37 07					
	eLQ	09 46.1					
	eLR	09 52.8					

cont.

				T	A		
SOD	eP	09 12 57					
	ePKP	17 05					
	ePKKP	28 33					
KJN	ePKP	09 16 52					
KEV	eSKS	09 23 20					
	ePS	26 20					
	eSS	32 32					
H: 08 58 43.8							
5.4 S, 151.3 E, 54 km (R)							
New Britain region							
7	SOD	eP 18 39 51					
H: 18 30 17							
51.7 N, 158.0 E, 50 km							
Kamchatka							
7	NUR	eS 19 17 04					
	eSS	23 02					
	eLQ	19 31.0					
	eLR	19 36.0					
H: 18 52 47.6							
6.7 N, 82.2 W, 30 km							
South of Panama							
8	NUR	iP 18 01 04.9 U	0.7	29.7			
	eS	10 20					
	eScS	11 06					
	eSS	14 52					
	eLQ	18 18					
SOD	eP	18 00 35					
	i	36.3					
KJN	iP	18 00 44.4 U	1.0	35.3			
KEV	eP	18 00 27	0.8	13.8			
	eS	09 10					
	eSS	13 14					
	eLQ	18 16.5					
	eLR	18 21					
H: 17 49 46.3							
34.7 N, 139.2 E, 31 km							
Honshu, Japan							
9	NUR	iP 06 53 15.3 D	1.0	40.0			
SOD	iP	06 52 40.7 D					
KJN	iP	06 52 52.6 U	0.6	16.2			
KEV	iP	06 52 31.0 D	0.7	20.9			
H: 06 42 32							
43.1 N, 145.2 E, 39 km							
Hokkaido, Japan							
9	NUR	iPKP 13 53 13.0	0.8	14.4			
	eSKKS	14 00 50					
	e	02 42					
	ePS	04 00					
	ePKKP	06					

cont.

December						December						
				T	A					T	A	
12	NUR	iP	10 21 05.9	U	0.8	14.4	14	NUR	ePS	02 28 32		
	SOD	eP	10 20 20						eSS	35 12		
	KJN	iP	10 20 40.9		0.8	11.9		KEV	eSS	02 37 03		
			H: 10 10 17.0						eSSS	41 27		
			52.6 N, 169.3 W, 33 km (R)							H: 01 59 05.6		
			Fox Islands							54.3 S, 2.4 W, 33 km (R)		
13	NUR	ePKP	00 33 14				14	KJN	eP	03 42 14		
		i	27.8							H: 03 35 14.5		
	KJN	iPKP	00 33 05.1		1.4	159.3				44.2 N, 81.6 E, 33 km (R)		
		i	15.3							Sinkiang, China		
			H: 00 13 40									
			34.0 S, 179.1 W, 112 km									
			Kermadec Islands									
13	NUR	iP	00 41 34.8	U	0.8	25.9	14	NUR	iP	06 53 08.1		
		i	40.7					SOD	iP	06 52 43.2	U	
	SOD	iP	00 40 43.8	U				KJN	iP	06 52 50.3	U	
		i	49.8							H: 06 41 23.1	0.8 16.6	
	KJN	eP	00 41 08							28.2 N, 140.8 E, 115 km		
	KEV	iP	00 40 22.8		1.0	37.4				Bonin Islands		
			H: 00 32 09.4					14	KJN	eP	16 03 59	
			65.2 N, 164.9 W, 33 km (R)							H: 15 52 34.2		
			Alaska							33.4 N, 142.0 E, 33 km (R)		
13	NUR	iP	00 42 54.3	D	1.0	126.0				Honshu, Japan		
		i	43 01.7					14	NUR	iP	21 12 44.1	D 1.2 68.4
	SOD	iP	00 42 03.4	D								
		i	10.5					14	NUR	iP	22 46 29.0	U 1.2 45.6
	KJN	iP	00 42 27.4	U	1.3	75.5			SOD	eP	22 45 41	
		iPcP	43 42.3									
	KEV	iP	00 41 42.8	U	1.0	102.9		15	SOD	iP	03 52 52.7	
		eS	48 25							H: 03 40 16.5		
		eSS	51 52							20.8 N, 106.6 W, 33 km (R)		
			H: 00 33 24.7							Jalisco, Mexico		
			64.9 N, 165.7 W, 15 km (R)									
			Alaska					15	NUR	iP	04 04 28.6	0.6 5.0
13	NUR	iP	13 27 40.3	U	1.1	59.5				H: 03 53 57		
		i	43.1							42.7 N, 143.6 E, 135 km		
	SOD	eP	13 27 22							Hokkaido, Japan		
		i	28.1					15	SOD	eP	05 19 25	
	KJN	iP	13 27 24.1		0.8	24.1			KJN	iP	05 19 26.3	D 0.8 22.1
		i	30.2						KEV	eP	05 19 23	0.7 24.2
	KEV	iP	13 27 18.0		0.7	15.4				H: 05 06 22.8		
			H: 13 15 49.8							2.3 N, 126.6 E, 45 km		
			20.1 N, 122.0 E, 33 km (R)							Molucca Passage		
			Philippine Islands									
13	SOD	eP	14 36 23				15	NUR	eP	07 58 23		
			H: 14 26 15					SOD	eP	07 56 56		
			45.2 N, 150.4 E, 33 km (R)					KJN	iP	07 57 38.7		
			Kurile Islands						i	42.9		
										cont.		

December				T	A	December				T	A
17	NUR	eP	09 30 54	1.0	21.0	18	NUR	eP	07 01 24		
	KJN	eP	09 30 21				SOD	iP	07 00 54.6 U		
17	NUR	eP	10 26 54	0.8	15.1		KJN	iP	07 01 04.0	0.6	11.0
	SOD	eP	10 26 25				H: 06 50 18.2				
	KJN	eP	10 26 21				37.3 N, 141.8 E, 62 km				
							Honshu, Japan				
17	NUR	eP	12 42 05	1.0	21.0	18	NUR	eP	09 21 06	1.0	14.7
17	SOD	eP	14 12 09				SOD	eP	09 20 29		
	H: 13 59 25.3						KJN	eP	09 20 42	1.0	7.1
	16.0 N, 96.9 W, 36 km (R)						H: 09 10 19				
	Oaxaca, Mexico						44.1 N, 149.4 E, 33 km (R)				
							Kurile Islands				
17	NUR	eP	17 30 58			18	SOD	eP	20 26 31		
	KJN	eP	17 30 47	1.2	19.1		KJN	eP	20 26 23		
17	NUR	iP	18 58 55.5 U	0.8	30.2	19	NUR	eP	02 04 29		
	SOD	iP	18 58 29.3 U				e		36		
	KJN	iP	18 58 37.2 D	0.8	18.2		H: 01 59 03				
	KEV	eP	18 58 20	0.8	12.7		35.3 N, 28.3 E, 52 km				
	H: 18 48 02.4						Mediterranean Sea				
	31.6 N, 138.0 E, 376 km					19	NUR	iPKP	07 01 02.8 D	0.8	52.9
	Honshu, Japan						SOD	ePKP	07 00 43		
17	NUR	iP	23 55 33.6 D	1.0	33.6		KJN	iPKP	07 00 51.5	0.9	13.8
	iPcP		56 02.0				e		01 27		
	eS		24 04 22				H: 06 41 27.3				
	e		05 12				32.8 S, 177.6 W, 203 km				
	SOD	eP	23 54 49				Kermadec Islands				
	ePcP		55 35			19	NUR	eP	23 39 21		
	KJN	iP	23 55 08.9 D	1.2	43.5		SOD	eP	23 40 05		
	iPcP		46.6				KJN	eP	23 39 34		
	KEV	eP	23 54 38				H: 23 31 57.3				
	ePcP		55 25				28.0 N, 56.9 E, 50 km				
	H: 23 44 46.2						Southern Iran				
	51.4 N, 177.9 W, 57 km					20	SOD	eP	03 40 27		
	Andreanof Islands						KJN	eP	03 40 14	1.2	25.4
18	NUR	eP	00 42 33				H: 03 31 36.0				
	SOD	eP	00 43 14				29.5 N, 81.0 E, 33 km (R)				
	KJN	eP	00 42 49				Nepal				
	H: 00 35 19					20	KJN	ePKP	11 44 54	0.9	8.5
	27.8 N, 52.8 E, 33 km (R)						H: 11 26 32.6				
	Southern Iran						20.1 S, 177.7 W, 463 km				
18	NUR	eP	02 33 52				Fiji Islands				
	KJN	iP	02 33 41.8	0.8	8.7	20	NUR	eP	13 43 01		
18	NUR	iP	06 16 28.4 D				SOD	iP	13 42 30.2 U		
	SOD	iP	06 15 57.7 D				epP		41		
	KJN	iP	06 16 07.8 D	0.7	19.0		KJN	iP	13 42 39.6 U	1.0	27.8
	KEV	eP	06 15 47	0.8	6.9		ipP		52.5		
	H: 06 05 18.8						cont.				
	37.3 N, 142.0 E, 33 km (R)										
	Honshu, Japan										

December						December					
			T	A				T	A		
	KEV	eP	13 42 20	0.7	6.8	22	NUR	ePKP	01 04 36		
	H:	13 31 54.7					SOD	eSKP	01 07 02		
		37.5 N, 141.6 E, 40 km (R)					KJN	ePKP	01 04 37		
		Honshu, Japan					H:	00 46 33			
20	SOD	eP	15 32 43					21.3 S, 179.3 W, 663 km			
	KJN	eP	15 33 09					Fiji Islands			
	KEV	iP	15 32 21.4	0.7	6.8	22	NUR	iP	04 43 59.0 D	1.0	192.0
	H:	15 27 16					e	44 04			
		80.5 N, 123.1 E, 33 km (R)					ePP	45 31			
		Severnaya Zemlya					eS	50 00			
20	NUR	eP	23 25 50				eSS	52 20			
	SOD	eP	23 25 20				eLQ	04 53.0			
	KJN	iP	23 25 29.3 U	0.7	17.4		eLR	04 55			
	H:	23 14 45.9				SOD	iP	04 44 35.4 D			
		36.6 N, 140.3 E, 83 km					i	43.2			
		Honshu, Japan					iPP	46 27.2			
21	KJN	eP	14 54 43			KJN	iP	04 44 11.5 D	1.5	223.1	
							i	16.3			
							e	45 32			
							e	47 54			
21	NUR	iP	17 46 26.4 U	0.8	32.4		eS	50 25			
	i	31.8				KEV	iP	04 44 48.7 D	1.0	105.0	
	SOD	iP	17 45 38.5 D				ePP	46 32			
	i	43.8					eS	51 26			
	KJN	iP	17 46 02.0 D	1.0	47.9		eSS	54 48			
	i	07.6					eLR	04 58.1			
	KEV	eP	17 45 19				H:	04 36 34.7			
	H:	17 36 29.0						28.2 N, 57.0 E, 42 km			
		60.5 N, 146.8 W, 43 km						Southern Iran			
		Southern Alaska				22	NUR	iP	08 12 48.0 U	1.0	38.0
21	NUR	eP	18 41 34	0.9	21.3		ipP	13 16.0			
	SOD	eP	18 40 46				i	45.8			
	KJN	iP	18 41 09.1 U	0.7	12.9		eS	22 16			
	KEV	iP	18 40 26.0	0.9	38.7	SOD	iP	08 12 45.3 U			
	H:	18 32 03.0					ipP	13 12.6			
		63.1 N, 150.3 W, 111 km					esP	29			
		Central Alaska					i	49.0			
21	SOD	eP	19 35 33			KJN	iP	08 12 51.2 U	1.0	44.5	
	KJN	eP	19 35 33				ipP	13 19.2			
	H:	19 23 21				KEV	iP	08 12 41.7	0.8	18.1	
		13.0 N, 124.5 E, 33 km (R)					ipP	13 09.5			
		Luzon, Philippine Is.					esP	27			
							eS	22 12			
21	NUR	eP	21 32 17				H:	08 01 12.6			
								18.4 N, 68.8 W, 115 km (R)			
								Mona Passage			
21	SOD	eP	21 47 56			22	NUR	ePKP	12 16 20		
							e	27			
							eSKP	19 08			
								cont.			

December				December				
			T	A		T	A	
	e	55 48			28	SOD eP	23 54 49	
	e	58 56						
	eSSS	59 38			29	NUR eP	00 55 12	
	e	17 03 24				SOD eP	00 54 28	
SOD	iPKP	16 34 07.1				KJN iP	00 54 47.5	
	i	17.4				H:	00 44 20.1	
	ipPKP	36 40.0					51.5 N, 175.0 W, 35 km	
	iSKP	49.1					Andreanof Islands	
	ePKS	37 44			29	NUR eP	01 51 01	
	epPP	38 44				SOD eP	01 50 16	
KJN	iPKP	16 34 09.5	0.6	8.1		KJN iP	01 50 36.2	
	i	21.6				H:	01 40 08.4	
	ipPKP	36 44.4					51.5 N, 175.0 W, 38 km	
	iSKP	56.5					Andreanof Islands	
	ePP	37 15			29	NUR eP	03 41 53	
	iPKS	51.0				epP	42 16	
	eSKS	40 10				e	44 51	
	eSKKP	45 56				SOD eP	03 41 21	
KEV	ePKP	16 34 05				ipP	46.7	
	i	14.4	1.0	159.6		KJN iP	03 41 31.5 D	
	ePP	36 30				epP	50	
	iSKP	40.3				KEV epP	03 41 31	
	iPKS	37 37.5				H:	03 30 44.3	
	epPP	38 30					38.1 N, 144.0 E, 40 km	
	esPKS	40 53					Honshu, Japan	
	e	42 39			29	NUR eP	06 45 57	
	e	44 41				SOD eP	06 45 12	
	eSKSP	45 24				KJN iP	06 45 31.5 D	
	ePSP	48 34				H:	06 35 02.2	
	eSS	53 29					51.4 N, 174.9 W, 22 km	
	e	55 20					Andreanof Islands	
	H: 16 16 11.0					29	NUR eP	06 50 00
	22.1 S, 179.6 W, 611 km (R)						SOD iP	06 49 15.5 D
	South of Fiji Islands						KJN iP	06 49 35.0 D
28	NUR eP	17 10 40	1.8	278.2		KEV eP	06 48 58	
	SOD iP	17 09 32.1 D				H:	06 39 08.0	
	eS	13 09					51.5 N, 174.8 W, 33 km (R)	
	KJN iP	17 10 05.9	1.0	114.0			Andreanof Islands	
	e	12 55			29	NUR iP	10 20 28.0	
	KEV eP	17 09 00				SOD eP	10 19 44	
	i	04.2				KJN iP	10 20 03.9	
	i	34.3				H:	10 09 42.4	
	eS	12 09					51.8 N, 175.1 W, 76 km	
	H: 17 04 57.0						Andreanof Islands	
	86.7 N, 68.7 E, 33 km (R)					29	NUR iP	13 01 31.3
	Franz Josef Land						e	39
28	NUR eP	17 14 07	1.1	29.3		SOD iP	13 00 59.1 D	
						i	01 06.1	
28	SOD eP	20 46 29					cont.	

December

December

		T	A			T	A
	KJN iP 13 01 08.8 U	0.8	40.7	31	NUR iP 01 58 19.0 D	0.6	37.5
	i 16.5				SOD iP 01 57 54.2 D		
	KEV eP 13 00 43				KJN iP 01 58 01.5 U	0.6	32.3
	H: 12 50 43.5				KEV eP 01 57 45		
	40.5 N, 139.0 E, 16 km				H: 01 47 13		
	Eastern Sea of Japan				28.7 N, 139.4 E, 426 km		
					Bonin Islands		
30	NUR iP 15 38 34.8 D	0.7	380.2	31	NUR iP 16 23 16.8		
	epP 39 40				ePP 44		
	ePP 41 23				iPcP 26 51.4		
	iS 47 43.0				eS 27 27		
	SOD iP 15 38 08.3 D				SOD iP 16 24 18.2 D		
	ipP 39 12.6				e 48		
	ePP 40 47				iPcP 27 09.0		
	KJN iP 15 38 15.8 D				eS 29 20		
	iPP 40 54.8				iScP 30 42.2		
	iS 47 08.1				KJN iP 16 23 47.5	0.7	7.9
	KEV iP 15 37 59.4 D	0.7	132.3		epP 24 11		
	i 38 44.8				ePcP 27 00		
	ePP 40 24				iS 28 25.3		
	H: 15 27 25.8				KEV eP 16 24 38	0.6	5.2
	31.3 N, 138.8 E, 261 km				e 25 16		
	Honshu, Japan				ePcP 27 13		
					H: 16 18 01.7		
30	NUR eP 17 00 32				35.8 N, 25.6 E, 86 km		
	SOD eP 16 59 58				Crete		
	KJN iP 17 00 09.5 U	0.9	14.8				
	H: 16 49 46.4						
	41.6 N, 141.7 E, 42 km						
	Hokkaido, Japan						
30	NUR ePKP 21 49 18						
	iSKP 52 09.3						
	SOD e(PKP) 21 49 20						
	iSKP 51 51.0						
	KJN ePKP 21 49 10						
	iSKP 51 57.8						
	KEV eSKP 21 51 43						
	H: 21 30 58.8						
	23.3 S, 179.9 W, 547 km						
	South of Fiji Islands						
30	KJN eP 23 44 49						
	H: 23 37 41.0						
	36.4 N, 69.9 E, 123 km						
	Hindu Kush						
					June 18, 1965		
					M. T. Porkka		
					Aili Huovila		