

INSTITUTE OF SEISMOLOGY
University of Helsinki

PRELIMINARY
SEISMOLOGICAL BULLETIN

1965

Helsinki

INSTITUTE OF SEISMOLOGY
UNIVERSITY OF HELSINKI

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1965

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University of Helsinki
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Helsinki
Finland

Stations:

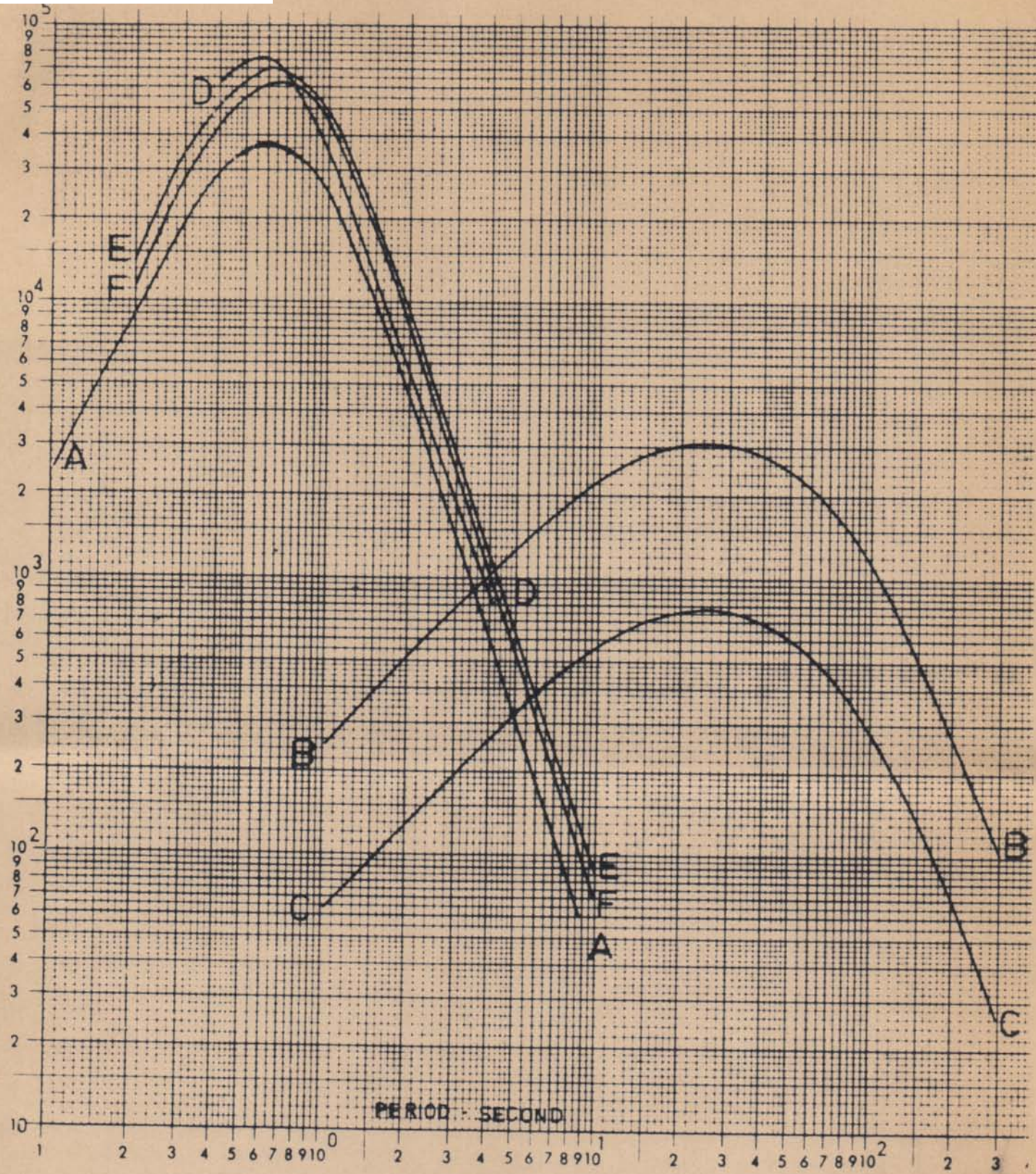
Nurmijärvi	(NUR)	60°30'32"N	24°39'05"E
Sodankylä	(SOD)	67°22'16"N	26°37'45"E
Kajaani	(KJN)	64.1° N	27.7° E
Kevo	(KEV)	69°45'21"N	27°00'45"E

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.

Seismometer	Instrumental constants			Damp. ratio
	Period Seism.	sec. Galv.	Max. Magn.	
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	37 000	17:1
Benioff N	1.0	0.75	37 000	17:1
Benioff E	1.0	0.75	37 000	17:1
KJN				
Benioff Portable Z	1.0	0.73	70 000	17:1
Benioff Portable N	1.0	0.76	62 000	17:1
Benioff Portable E	1.0	0.76	62 000	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	37 000	17:1
Benioff N	1.0	0.74	37 000	17:1
Benioff E	1.0	0.74	37 000	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



RESPONSE CURVES JAN. 1, 1965

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 N and E, KJN (since Nov. 11, 1964)
- F-F Benioff Z, KJN (since Nov. 11, 1964)

January

January

				T	A					T	A		
1	SOD	eP	10 14 26			2	NUR	iP	13 56 51.1	D	0.7	77.4	
	KJN	eP	10 14 31	0.7	8.1			ipP	57 20.0				
	H: 10 02 49.8							eS	14 07 18				
	19.6 N, 68.5 W, 33 km (R)							esS	08 03				
	North Atlantic Ocean							esPS	09 14				
1	SOD	eP	12 14 12					esSS	13 56				
	KJN	eP	12 14 40	0.7	9.7			e	14 40				
	KEV	eP	12 13 55				SOD	eP	13 56 29				
	H: 12 09 12							epP	57				
	84.1 N, 114.9 E, 33 km (R)							i	58 26.1				
	North of Severnaya Zemlya							eS	14 06 37				
1	SOD	eP	12 41 45				KJN	iP	13 56 35.4	D	0.7	110.6	
1	NUR	eP	12 58 11					eS	14 06 47				
	SOD	eP	12 57 55				KEV	iP	13 56 21.4	U	0.8	161.7	
	KJN	iP	12 57 56.2	1.0	27.4			ipP	50.0				
	KEV	eP	12 57 53	0.9	12.3			e	57 00				
	H: 12 46 43.4							e	14 03 30				
	23.5 N, 121.2 E, 33 km (R)							eS	06 21				
	Taiwan							esS	07 05				
								H: 13 44 18.9					
1	KJN	eP	13 46 16					19.1 N, 145.4 E, 142 km					
	H: 13 34 40							Mariana Islands					
	19.9 N, 121.6 E, 23 km						2	NUR	eP	18 22 47			
	Philippine Islands							SOD	eP	18 22 25			
1	KJN	eP	17 38 55						ipP	57.2			
	H: 17 32 27.8							KJN	iP	18 22 31.9	D	0.5	13.1
	35.8 N, 4.5 E, 33 km (R)								ipP	24 04.3			
	Algeria							KEV	eP	18 22 18			
1	NUR	iP	21 27 42.5	1.0	14.8				epP	47			
	SOD	eP	21 27 27					H: 18 10 15.5					
	KJN	iP	21 27 33.5					19.1 N, 145.4 E, 145 km					
								Mariana Islands					
1	NUR	eP	21 44 22				2	KJN	eP	22 27 34	0.9	5.7	
		eS	49 08										
		eLQ	21 50.0				3	SOD	eP	07 12 22			
	SOD	eP	21 45 16										
	KJN	iP	21 44 53.1	1.0	17.1		3	SOD	eP	07 18 09			
	KEV	eP	21 45 34										
		eS	51 12										
		eSS	53 49										
		eLR	21 55.5										
	H: 21 38 29.2												
	35.7 N, 4.4 E, 10 km												
	Algeria												
2	NUR	eP	10 22 45				3	NUR	iP	15 52 06.8	U	0.7	15.5
	SOD	iP	10 22 28.3	U				SOD	iP	15 51 40.4			
	KJN	iP	10 22 30.1	U	0.7	23.7		KJN	iP	15 51 48.5	U	0.7	5.7
	KEV	iP	10 22 22.6	0.9	21.1			KEV	eP	15 51 32			
	H: 10 11 35.1							H: 15 40 18.3					
	25.5 N, 122.5 E, 136 km							29.3 N, 141.7 E, 42 km					
	Taiwan region							South of Honshu, Japan					

January

January

		T		A				T		A		
3	NUR iP	23 23	45.3	U	0.7	38.7	4	NUR iP	22 37	29.1	U	
	SOD iP	23 22	56.6					SOD iP	22 37	07.7	U	
	KJN iP	23 23	20.6	U	1.0	25.1		KJN iP	22 37	14.2	U	
	H:	23 13	50.4					KEV eP	22 36	59		
	60.2 N, 151.2 W, 93 km Kenai Peninsula, Alaska											
4	NUR eP	03 51	17				5	NUR eP	01 04	37		
	H:	03 41	23					SOD eP	01 04	38		
	59.9 N, 153.6 W, 122 km Southern Alaska											
4	SOD eP	05 35	31					KJN iP	01 04	34.1	U	
	KJN eP	05 35	29		0.7	4.0		H:	00 51	33.6	0.9	
	H:	05 21	55.7					7.3 S, 106.7 E, 89 km Java				
	7.3 S, 127.9 E, 148 km Banda Sea											
4	NUR ePKP	07 25	49				5	SOD eP	13 12	13		
	eSKP	28 26						H:	13 01	46		
	SOD iSKP	07 28	06.1					38.0 N, 138.8 E, 33 km (R) Honshu, Japan				
	KJN ePKP	07 25	40				5	NUR ePKP	18 25	15		
	eSKP	28 15						eSS	46 25			
	H:	07 07	31.1					e	48 05			
	19.1 S, 177.5 W, 570 km Fiji Islands region											
4	NUR iP	08 37	39.3	D	0.7	47.7		eSSS	51 13			
	KJN iP	08 37	27.7	D	0.6	7.3		KJN ePKP	18 25	15		
4	NUR eP	11 43	00		0.9	18.5		i	24.5			
	SOD iP	11 42	50.7	U				ePKS	28 48			
	KJN iP	11 42	51.0	D				KEV iP	18 25	11		
	e	46 06						ePKS	28 26			
	ePP	32						eSKKS	34 18			
	KEV iP	11 42	47.2	U	0.8	46.7		eSKSP	37 11			
	H:	11 29	48.2					eSS	44 40			
	1.8 N, 127.2 E, 84 km Halmahera											
4	NUR eP	19 51	11					e	47 02			
	SOD eP	19 50	43					H:	18 05	58.6		
	KJN eP	19 50	52		0.6	10.5		20.3 S, 174.1 W, 33 km (R) Tonga Islands				
	H:	19 39	59.3					5	NUR eP	20 46	19	
	34.6 N, 138.6 E, 86 km Honshu, Japan											
4	NUR eP	20 58	04					i	28.0			
	SOD eP	20 57	16					SOD eP	20 46	08		
	KJN iP	20 57	40.3		1.0	21.7		KJN iP	20 46	07.9	D	
	KEV eP	20 56	53					H:	20 34	20.7	0.5	
	H:	20 48	54.9					13.9 N, 120.8 E, 159 km Mindoro, Philippine Is.				
	67.4 N, 136.2 W, 33 km (R) Northern Yukon, Canada											
								5	SOD eP	20 56	04	
								e	55			
								KJN eP	20 56	13		
								H:	20 45	50.6		
								34.6 N, 138.8 E, 363 km Honshu, Japan				
								5	NUR iP	22 12	29.0	D
								SOD eP	22 13	07	1.3	65.2

January

January

			T	A		T	A
5	NUR eP	23 05 16			7	KJN eP	13 06 26
	KJN eP	23 35 05				H:	12 54 09.4
	H:	23 22 29.4					19.3 N, 145.5 E, 120 km
		9.7 N, 126.3 E, 12 km					Mariana Islands
		Mindanao, Philippine Is.			7	NUR eS	16 20 32
6	SOD iP	01 08 09.9 U				SOD eP	16 09 20
	KJN eP	01 08 07	1.2	22.0		H:	15 56 32.5
	H:	00 55 27.4					16.2 N, 97.2 W, 43 km
		7.0 S, 122.9 E, 546 km					Oaxaca, Mexico
		Flores Sea			7	SOD iP	17 20 29.8
6	SOD iP	02 11 55.6 U				KJN eP	17 20 19
	KJN eP	02 12 15	0.8	9.3		H:	17 09 03
	H:	02 01 22.2					9.9 N, 93.8 E, 12 km
		44.9 N, 112.7 W, 7 km					Nicobar Islands
		Eastern Idaho			7	NUR iP	19 01 26.6 U
6	SOD eP	08 32 16				SOD eP	19 01 13
	KJN eP	08 32 24	0.7	6.5		i	21.5
	H:	08 21 14.9				KJN iP	19 01 13.7 U
		33.9 N, 137.4 E, 33 km (R)				H:	18 49 35.0
		Honshu, Japan					18.6 N, 120.9 E, 33 km (R)
6	SOD eP	10 49 21					Luzon, Philippine Is.
	KJN eP	10 49 55			7	NUR eP	21 29 30
6	NUR eP	18 37 34				SOD eP	21 29 16
	i	41.1				KJN eP	21 29 18
	SOD eP	18 36 44				i	28.2
	i	49.8				H:	21 17 33.6
	i	37 02.6					17.1 N, 119.8 E, 33 km (R)
	KJN eP	18 37 08					Philippine Islands
	H:	18 27 34.0			8	NUR eP	05 51 19
		60.0 N, 151.8 W, 53 km				SOD eP	05 51 40
		Kenai Peninsula, Alaska			8	SOD eP	10 41 15
6	NUR iP	18 37 54.3 D	1.0	82.1		H:	10 31 38
	i	38 12.0					56.7 N, 152.5 W, 33 km (R)
	i	21.2					Kodiak Island
	e	32			8	NUR eP	11 36 27
	SOD iP	18 37 06.2 D				SOD iP	11 35 38.0
	iPcP	38 16.3				KJN eP	11 36 02
	KJN iP	18 37 29.2	1.4	82.8		KEV eP	11 35 20
	iPcP	38 28.1				H:	11 25 56.6
	KEV eP	18 36 40					56.3 N, 153.5 W, 33 km (R)
7	NUR eP	10 27 31					Kodiak Island
	i	33.3			8	NUR eP	16 41 56
	eS	31 51				SOD eP	16 41 18
	KJN eP	10 28 04				H:	16 31 10.6
	e	29 39					44.6 N, 149.5 E, 36 km
	H:	10 22 17.5					Kurile Islands
		36.5 N, 26.9 E, 45 km					
		Dodecanese Islands					

January

T A

8 NUR ePKP 19 08 41
SOD ePKP 19 08 54
KJN iPKP 19 08 48.2 U 1.0 35.3
i 59.1
eSKP 12 23
KEV ePKP 19 08 57
H: 18 49 46.0
59.4 S, 24.0 W, 39 km
South Sandwich Islands

8 KJN ePKP 20 44 30
H: 20 24 56
33.8 S, 179.3 E, 33 km (R)
Kermadec Islands

8 NUR eSS 21 45 35
e 47 02
eSSS 49 52
eLQ 22 00.5
H: 21 08 06.0
13.2 S, 112.0 W, 33 km (R)
Easter Island Cordillera

8 KJN ePKP 23 36 00
H: 23 16 20.4
34.2 S, 179.8 E, 20 km (R)
Kermadec Islands

9 SOD eP 00 29 12
H: 00 19 40
57.6 N, 150.5 W, 22 km
Gulf of Alaska

9 KJN ePKP 02 02 15
H: 01 42 44
34.2 S, 179.5 W, 33 km (R)
Kermadec Islands

9 NUR iP 03 40 24.9
SOD eP 03 39 47
H: 03 29 42.6
46.4 N, 153.1 E, 28 km
Kurile Islands

9 NUR ePKP 04 48 33
KJN iPKP 04 48 25.4 U 1.5 71.5
e 43
H: 04 28 56
34.2 S, 179.9 E, 74 km
Kermadec Islands

9 NUR iP 13 45 25.3
i 26.5 U 1.0 115.9
e 39
cont.

January

T A

e 44
eS 55 54
SOD iP 13 45 12.8 D
i 14.5 U
e 25
e 46 47
ePP 48 26
KJN iP 13 45 13.3 D 0.7 132.2
i 25.5
i 46 02.5
KEV iP 13 45 08.9
i 10.0 U
e 23
H: 13 32 46.4
11.9 N, 126.2 E, 5 km
Philippine Islands

9 KJN ePKP 17 28 25
H: 17 08 52
34.5 S, 179.9 E, 33 km (R)
Kermadec Islands

10 NUR iP 02 55 46.0
i 47.0
i 51.5
eS 58 19
e 35
SOD iP 02 57 06.8 U
i 08.1
ePP 33
iS 03 00 50.0
KJN iP 02 56 30.4 U
i 48.5
eS 59 39
KEV eP 02 57 28
i 30.0
eS 03 01 47
e 02 12
e 03 54
H: 02 52 23.9
45.8 N, 26.6 E, 128 km
Rumania

10 SOD eP 07 51 38
H: 07 37 35.1
5.8 S, 147.3 E, 113 km
East New Guinea region

10 NUR iP 08 06 54.8
i 07 42.0
SOD eP 08 07 07
e 08 49
KJN eP 08 07 03
e 08 16
KEV eP 08 07 11

January

			T	A
10	NUR eP	13 39 47	0.7	8.4
	SOD eP	13 38 29		
	KJN eP	13 39 10		
	KEV eP	13 37 54		
10	NUR ePKP	13 55 27	0.8	110.8
	e	30		
	ePP	57 26		
	ePKS	58 40		
	eSKS 14	02 26		
	eSKKKS	04 12		
	eS	05 16		
	e	06 32		
	ePS	07 18		
	e	08 52		
	e	10 00		
	eSS	14 14		
	e(SSS)	19 14		
SOD	ePKP 13	55 20		
	i	32.1		
	e(PP)	57 45		
	ePKKP 14	05 30		
KJN	ePKP 13	55 01		
	i	01.7		
	i	51.6		
	ePP	57 10		
	iPKKP 14	05 21.2		
KEV	iPKP 13	55 15.8		
	i	21.2		
	iPKKP 14	05 35.0		
	H: 13 36	30.7		
	13.5 S, 166.6 E,	32 km		
	New Hebrides Islands			
10	NUR eP	15 03 57		
	SOD eP	15 03 43		
	KJN eP	15 03 41		
	KEV eP	15 03 38		
	H: 14 54	01.0		
	35.2 N, 111.3 E,	33 km (R)		
	Eastern China			
10	NUR ePKP	16 57 45	0.8	8.0
	eSKP	17 00 38		
	SOD eSKP	17 00 21		
	KJN ePKP	16 57 43		
	iSKP	17 00 27.6		
	H: 16 39	20		
	24.3 S, 180.0,	518 km		
	South of Fiji Islands			
10	NUR eP	20 14 18		
	SOD eP	20 15 27		

cont.

January

			T	A
	KJN eP	20 14 59		
	H: 20 10	04		
	43.2 N, 16.8 E,	11 km		
	Yugoslavia			
11	SOD eP	00 46 46	1.0	7.1
	KJN eP	00 47 08		
	H: 00 37	19		
	58.6 N, 151.4 W,	33 km (R)		
	Kodiak Island region			
11	NUR ePKP	07 39 13	1.0	21.2
	KJN iPKP	07 39 02.0 U		
	i	09.1		
	H: 07 19	30.3		
	33.9 S, 179.9 E,	33 km (R)		
	Kermadec Islands			
11	NUR eP	09 56 19		
	KJN eP	09 55 59		
	H: 09 44	58		
	30.0 N, 130.3 E,	33 km (R)		
	Kyushu, Japan			
11	NUR iP	17 07 20.2 D	0.9	22.6
	i	27.4		
	SOD iP	17 06 31.8 D		
	i	38.2		
	KJN iP	17 06 55.5 D		
	i	07 03.5		
	KEV eP	17 06 12		
	i	20.3		
	H: 16 57	27.0		
	61.1 N, 151.0 W,	59 km		
	Southern Alaska			
11	NUR iP	20 24 48.0 U	1.0	96.3
	i	49.7		
	SOD iP	20 24 14.3		
	i	16.3		
	i	19.1		
	KJN iP	20 24 25.9 D		
	KEV iP	20 24 04.7 U		
	i	06.9		
	H: 20 14	33.5		
	43.0 N, 139.2 E,	189 km		
	Eastern Sea of Japan			
11	NUR iP	22 57 27.9	1.0	17.4
	SOD eP	22 56 46		
	KJN iP	22 57 02.1 U		
	H: 22 47	06.3		
	48.8 N, 153.5 E,	102 km		
	Kurile Islands			

January							January							
				T	A						T	A		
12	SOD	eP	09 33 08				12	KJN	iPKP	19 15 08.6				
			H: 09 20 38							H: 18 55 53.6				
			8.5 N, 121.4 E, 33 km (R)							34.2 S, 179.3 E, 187 km				
			Mindanao, Philippine Is.							Kermadec Islands				
12	SOD	eP	12 58 48				12	NUR	iP	21 02 58.8 D	1.1	35.0		
	KJN	eP	12 59 12					SOD	eP	21 03 09				
			H: 12 49 36					KJN	iP	21 03 02.5 D	0.7	8.3		
			60.3 N, 147.8 W, 33 km (R)							H: 20 50 12.3				
			Southern Alaska							5.5 S, 102.5 E, 33 km (R)				
12	NUR	iP	13 41 43.9 U	1.1	296.6		13	SOD	iP	08 51 27.3 D				
		i	56.0					KJN	iP	08 51 35.9 D	0.6	12.4		
		ePP	43 54							H: 08 40 57.0				
		eS	49 18							39.0 N, 140.7 E, 19 km				
		eScS	51 38							Honshu, Japan				
		eSS	53 16				13	NUR	eP	22 28 31				
		eLR	13 57					SOD	eP	22 28 23				
	SOD	iP	13 41 48.2 U					KJN	iP	22 28 21.7 U	0.8	10.4		
		i	55.0					KEV	eP	22 28 23				
		e	43 33							H: 22 15 24.6				
		eS	49 14							0.0, 123.9 E, 127 km				
	KJN	iP	13 41 38.2 U	1.0	203.0					Northern Celebes				
		iPP	43 20.3				14	NUR	eP	01 21 09				
	KEV	iP	13 41 51.8 U							H: 01 10 42				
		i	58.7							48.6 N, 154.3 E, 33 km (R)				
		ePP	44 04							Kurile Islands				
		eS	49 28				14	SOD	eP	01 43 56				
		H: 13 32 24.0						KJN	eP	01 44 01				
		27.6 N, 88.0 E, 23 km						KEV	iP	01 43 48.2				
		Nepal								H: 01 33 14.6				
12	NUR	iP	14 04 38.0 U	1.0	30.6					30.2 N, 129.0 E, 140 km				
	SOD	iP	14 04 44.0							Kyushu, Japan				
	KJN	iP	14 04 33.3	0.5	20.1		14	SOD	eP	17 34 15				
	KEV	iP	14 04 47.2 D							H: 17 21 17.6				
		H: 13 55 20.0								2.3 N, 126.9 E, 94 km				
		27.3 N, 87.7 E, 33 km (R)								Molucca Passage				
		Nepal					14	NUR	ePKP	19 06 04	0.8	22.1		
12	KJN	ePKP	16 14 14					SOD	ePKP	19 05 51				
		H: 15 54 34						KJN	iPKP	19 05 55.0	0.5	9.8		
		34.0 S, 179.4 E, 11 km								H: 18 46 20.4				
		Kermadec Islands								38.8 S, 176.0 E, 82 km				
12	NUR	iP	16 28 10.7 D	1.0	28.7					North Island, N. Z.				
		e	38 46				15	NUR	iP	00 41 09.2 U	0.6	111.4		
	SOD	eP	16 27 52						i	13.2				
	KJN	iP	16 27 53.2 U	1.0	44.1					cont.				
	KEV	eP	16 27 49											
		H: 16 18 11												
		34.7 N, 111.8 E, 33 km (R)												
		Eastern China												

January						January			
			T	A			T	A	
	SOD	iP	00 41 26.0 U			KEV	eP	18 45 11	
	KJN	iP	00 41 08.7 U	0.7	64.6	H:	18 34 07.6		
		ePP	42 35				23.6 N, 121.7 E, 33 km (R)		
	KEV	iP	00 41 33.8 D				Taiwan		
			H: 00 34 15.2			15	SOD	eP	19 36 17
			36.5 N, 71.0 E, 245 km				H:	19 24 33	
			Afghanistan-USSR border					2.0 S, 12.8 W, 33 km (R)	
15	NUR	iPKP	03 48 40.1	0.9	29.9			North of Ascension Island	
		i	42.2			15	KJN	ePKP	20 31 25
		eSKP	51 24				H:	20 13 27.8	
	SOD	ePKP	03 48 29					18.6 S, 178.7 W, 685 km	
		eSKP	51 06					Fiji Islands region	
	KJN	iPKP	03 48 32.1	0.9	12.5	15	NUR	ePKP	23 36 37
			H: 03 30 22.2				KJN	ePKP	23 36 28
			20.9 S, 177.8 W, 597 km				H:	23 17 36.0	1.1 37.4
			Fiji Islands region					13.3 S, 166.3 E, 8 km	
15	SOD	eP	04 04 12					New Hebrides Islands	
	KJN	eP	04 04 18			15	KJN	eP	23 53 50
			H: 03 52 06.3				H:	23 47 27.8	
			18.5 N, 145.6 E, 204 km					35.7 N, 4.3 E, 31 km	
			Mariana Islands					Algeria	
15	NUR	iP	06 06 25.9 U	0.6	33.6	16	KJN	ePKP	01 28 57
		eS	11 38				H:	01 10 42.3	
	SOD	iP	06 06 19.8 U					20.7 S, 178.7 W, 520 km	
	KJN	iP	06 06 12.3 U					Fiji Islands region	
		eS	11 05			16	NUR	ePKP	11 51 22
	KEV	iP	06 06 21.4 U				eSS	12 09 22	0.8 22.7
			H: 05 59 58.5				eSSS	14 28	
			49.9 N, 79.0 E, 0 km				eLQ	12 23.5	
			Eastern Kazakh SSR				SOD	iPKP	11 51 34.9 U
15	NUR	eP	15 01 45	0.7	20.6		iSKP	54 44.8	
		i	46.2				ePKS	59	
	SOD	iP	15 02 49.7				KJN	iPKP	11 51 29.5
	KJN	eP	15 02 19				iSKP	54 35.5	0.8 42.5
			H: 14 56 46				KEV	ePKP	11 51 38
			37.2 N, 22.5 E, 108 km				iSKP	54 50.9	
			Southern Greece				H:	11 32 37.4	
15	NUR	eP	15 37 16	1.0	21.0			56.6 S, 27.4 W, 101 km	
	SOD	eP	15 36 59					South Sandwich Islands	
	KJN	iP	15 36 59.7 D	0.9	30.8	16	NUR	ePKP	13 10 01
			H: 15 27 22				KJN	ePKP	13 09 59
			35.1 N, 111.7 E, 58 km				H:	12 51 29	
			Eastern China					25.6 S, 180.0 W, 445 km	
15	NUR	iP	18 45 36.6 U	0.9	29.9			South of Fiji Islands	
	SOD	eP	18 45 20						
		i	37.1						
	KJN	iP	18 45 20.9 D	0.6	11.3				
			cont.						

January				T	A	January				T	A
20	NUR	eP	04 04 32	0.8	13.6	21	NUR	iPKP	16 07 15.0 U	0.8	57.6
		i	48.2				KJN	iPKP	16 07 03.8 U	0.5	8.6
	KJN	eP	04 04 36					i	09.9	0.4	9.6
								H:	15 48 06		
20	NUR	eP	07 14 20	0.8	4.5				29.8 S, 179.4 W, 246 km		
	SOD	eP	07 15 34						Kermadec Islands		
	KJN	eP	07 15 05								
20	NUR	eP	16 52 53			21	NUR	eP	16 46 37		
	SOD	iP	16 52 06.2					H:	16 36 46.2		
	KJN	eP	16 52 29	1.0	11.1				56.2 N, 163.1 E, 119 km		
			H: 16 42 50.9						Kamchatka		
			60.0 N, 146.8 W, 33 km (R)			22	SOD	iP	02 51 56.8 D		
			Gulf of Alaska					epP	52 18		
20	NUR	eP	20 37 44				KJN	e	02 52 11		
		e	38 01					H:	02 41 35		
	SOD	eP	20 37 07						20.1 N, 94.5 E, 76 km		
		i	38 10.0						Burma		
	KJN	eP	20 37 32			22	KJN	iP	03 50 23.6	0.7	1.6
			H: 20 27 05.5								
			46.3 N, 152.3 E, 33 km (R)			22	KJN	eP	11 02 14		
			Kurile Islands					H:	10 51 37.1		
21	NUR	ePKP	02 23 58						38.5 N, 138.5 E, 33 km (R)		
	KJN	ePKP	02 23 52						Honshu, Japan		
			H: 02 04 43.7			23	NUR	eP	02 43 23		
			15.9 S, 173.2 W, 33 km (R)					i	26.1	0.9	32.7
			Tonga Islands					e	34		
21	KJN	eP	02 52 03					i	56.5		
			H: 02 41 01.6				SOD	eP	02 44 42		
			33.6 N, 136.1 E, 13 km					i	47.0		
			Honshu, Japan				KJN	iP	02 44 10.8	0.9	14.8
21	NUR	ePKP	06 29 42				KEV	eP	02 44 57		
	SOD	ePKP	06 29 17					H:	02 39 30.6		
	KJN	ePKP	06 29 31						44.2 N, 18.0 E, 33 km (R)		
		i	32.8	1.0	20.7				Yugoslavia		
			H: 06 09 58			23	KJN	ePKP	08 22 37		
			34.2 S, 179.8 E, 33 km (R)					H:	08 03 39.9		
			Kermadec Islands						16.3 S, 174.5 W, 119 km		
21	NUR	eP	13 39 59						Tonga Islands		
		eSS	50 22			23	NUR	iPn	11 10 51.1		
		eLQ	13 52					iSn	11 40.7		
	SOD	eP	13 40 03					iSg	56.4		
	KJN	eP	13 39 55	0.7	4.7			i	12 01.0		
	KEV	iP	13 40 03.5	0.8	18.5		SOD	iPn	11 10 24.5		
			H: 13 31 29.4					iSn	11 00.5		
			34.6 N, 86.9 E, 33 km (R)					iSg	10.0		
			Tibet				KJN	iPn	11 10 15.1		
								iSn	42.1		
									cont.		

January

January

T A

T A

KEV iPn 11 10 51.5
iPb 11 06.8
iPg 12.0
iSn 51.5
iSb 12 10.5
iSg 21.0

According to the
Finnish seismograph
Station net:
H: 11 09 33
64.8 N, 22.2 E
Gulf of Bothnia

KJN iP 22 10 19.2 U 0.8 22.0
KEV iP 22 10 47.1
H: 22 03 09
35.3 N, 72.8 E, 200 km (R)
West Pakistan

23 NUR eP 22 50 35
SOD eP 22 50 23
KJN eP 22 50 24 0.7 6.2
H: 22 38 25.8
13.7 N, 119.9 E, 53 km
Philippine Islands

23 NUR iP 11 29 05.0 D 0.7 11.9
KJN iP 11 29 20.4 D 0.7 10.9
H: 11 23 31.7
39.1 N, 48.4 E, 33 km (R)
Northwestern Iran-USSR

23 NUR iP 23 36 15.5 D 0.7 45.2
epP 38 19
eS 46 06
SOD iP 23 36 06.5 D
epP 38 05
eS 45 50
KJN iP 23 36 06.0 D 0.7 72.9
epP 38 18
ePP 39 28
e 45 47
KEV iP 23 36 03.1
H: 23 24 29.6
7.4 N, 123.9 E, 627 km
Mindanao, Philippine Is.

23 KJN iP 16 08 24.3 D 0.9 10.2

23 KJN eP 16 13 14 0.8 3.3
H: 16 01 18.0
13.8 N, 119.9 E, 66 km
Philippine Islands

23 NUR iP 16 45 24.4 D 0.7 15.8
eS 47 55
SOD eP 16 44 13
eS 45 50
e 46 18
KJN iP 16 44 52.7 D 0.7 58.1
KEV eP 16 43 54
eS 45 14
H: 16 42 05
73.3 N, 7.4 E, 33 km (R)
Greenland Sea

24 NUR eP 00 24 50
i 25 02.2
e 28 46
iPP 29 03.0
iSKS 35 39.5
eS 36 39
iPS 37 52.0
ePKKP 41 31
i 48.0
eP'P' 49 41
e 01 02 27
SOD iP 00 24 41.2
i 53.3
i 28 35.3
iPP 49.5
eSKS 35 26
e 36 30
ePS 37 32
ePKKP 41 33
e 52
eSS 42 25
e 37
eP'P' 49 52
KJN iP 00 24 38.3 0.9 13.8
i 52.8
cont.

23 SOD eP 16 49 18

23 NUR iP 22 02 20.5 U 0.8 50.4
e 57
ePP 04 55
SOD iP 22 01 50.1 U
KJN iP 22 01 59.8 U 0.7 82.9
ePP 04 23
KEV eP 22 01 39
H: 21 51 14.9
36.9 N, 140.9 E, 58 km
Honshu, Japan

23 NUR iP 22 10 20.5 U 0.8 28.8
ePP 11 52
SOD eP 22 10 35
cont.

January				January			
	T	A		T	A		
e	28	30					
iPP		46.2					
eSKS	35	23					
i		28.8					
eS	36	17					
e		42					
iSP	37	36.7					
ePKKP	41	19					
e		37					
eSS	42	36					
e	46	19					
eP'P'	49	48					
e	01	02 08					
KEV eP	00	24 37					
i		51.5					
iPP	28	36.2					
e	35	17					
iSKS		27.2					
eS	36	19					
ePS	37	31					
ePPS	38	34					
ePKKP	41	49					
eP'P'	50	10					
H:	00	11 12.1					
		2.4 S, 126.0 E, 6 km					
		Ceram Sea					
24 SOD eP	00	40 05					
24 SOD eP	00	54 47					
24 SOD eP	00	58 33					
KJN eP	00	58 20					
24 SOD eP	01	11 09					
KJN eP	01	10 59					
24 NUR eP	01	32 05					
epP		46					
SOD iP	01	32 03.0					
KJN iP	01	32 07.8	0.9		19.4		
KEV eP	01	32 01					
H:	01	19 32.9					
		6.8 N, 73.1 W, 169 km					
		Northern Colombia					
24 NUR ePKP	16	24 42					
H:	16	06 30.7					
		20.9 S, 179.0 W, 616 km					
		Fiji Islands					
24 NUR iP	20	07 44.5	0.9		10.1		
SOD eP	20	06 58					
		cont.					
KJN eP	20	07 20					
H:	19	57 01					
		54.4 N, 162.2 W, 20 km (R)					
		Alaska Peninsula					
24 NUR iP	22	42 17.2	1.5		56.0		
eS		44 53					
SOD eP	22	41 05					
iPP		14.8					
ePPP		23					
eS		42 48					
KEV eP	22	40 44					
i		57.1					
eS		42 07					
H:	22	38 56.0					
		73.1 N, 6.5 E, 33 km (R)					
		Greenland Sea					
24 NUR e	22	50 02					
SOD eP	22	45 46					
e(S)		47 18					
KEV e	22	45 57					
e		47 04					
25 NUR eP	04	25 20					
SOD eP	04	24 49					
H:	04	14 21.2					
		37.9 N, 138.9 E, 33 km (R)					
		Honshu, Japan					
25 NUR iPKP	10	51 53.1					
KJN ePKP	10	51 45					
H:	10	33 16					
		12.9 S, 167.2 E, 205 km (R)					
		Santa Cruz Islands					
25 NUR iP	12	24 11.5 U	0.9		13.8		
SOD eP	12	25 09					
KJN eP	12	24 38					
KEV e(P)	12	25 46					
H:	12	18 33.0					
		34.5 N, 32.8 E, 17 km					
		Cyprus					
25 SOD eP	16	56 51					
KJN eP	16	56 58					
H:	16	44 18.7					
		13.7 N, 144.3 E, 139 km					
		Mariana Islands					
26 NUR eP	01	29 01					
SOD iP	01	28 13.3 D					
ePcP		29 24					
		cont.					

January				T	A	January				T	A
	KJN	eP	01 28 37	0.8	4.2	26	SOD	eP	09 35 55		
		ePcP	29 36				KJN	eP	09 36 15	0.9	4.8
	H: 01 19 19										
	61.4 N, 152.4 W, 135 km (R)					26	SOD	eP	09 42 38		
	Southern Alaska						KJN	iP	09 42 59.5	0.8	8.5
26	NUR	eP	02 04 07			26	SOD	eP	22 15 13		
	SOD	eP	02 03 40								
	KJN	eP	02 03 48			26	KJN	eP	23 33 51		
	H: 01 53 31.9						H: 23 22 18.4				
	34.6 N, 135.2 E, 357 km						29.6 N, 142.0 E, 33 km (R)				
	Honshu, Japan						South of Honshu, Japan				
26	SOD	eP	02 40 09			26	NUR	iP	23 58 40.2 D	0.9	42.0
	KJN	eP	02 40 13					ipP	59 01.0		
	H: 02 29 02							e	36		
	28.4 N, 131.1 E, 33 km (R)							ePPP	24 02 39		
	Ryukyu Islands region							e(S)	07 50		
26	NUR	ePKP	05 13 23					eLR	24 22		
		iSKP	16 07.8				SOD	eP	23 58 11.1 D		
	SOD	ePKP	05 13 10					ePcP	46		
		i	15 50.2				KJN	iP	23 58 19.8 D	1.0	71.8
		iSKP	51.7					epP	39		
	KJN	ePKP	05 13 15					i	59 03.6		
		iSKP	15 56.9					ePP	24 00 49		
	KEV	eSKP	05 15 41				KEV	iP	23 58 00.7 D		
	H: 04 54 51.6							epP	19		
	23.4 S, 179.8 E, 474 km							eS	24 06 21		
	South of Fiji Islands						H: 23 47 38.2				
							36.1 N, 139.5 E, 104 km				
							Honshu, Japan				
26	NUR	eP	06 38 06			27	NUR	eP	19 35 47		
	SOD	eP	06 38 10				SOD	iP	19 35 22.4 U		
		epP	37				KJN	iP	19 35 29.6 U	0.8	7.6
	KJN	iP	06 38 07.9 U	0.7	8.9		H: 19 24 50				
		epP	35				30.5 N, 138.7 E, 399 km				
	KEV	eP	06 38 11				South of Honshu, Japan				
		epP	38								
	H: 06 25 32					27	NUR	ePKP	20 32 01		
	2.9 S, 102.4 E, 89 km						KJN	ePKP	20 31 52		
	Southern Sumatra						H: 20 13 39				
26	SOD	eP	06 44 12				22.0 S, 179.5 W, 563 km				
	KJN	eP	06 44 35	0.9	4.8		Fiji Islands region				
26	NUR	eP	07 27 01			28	NUR	iP	02 46 42.3 D	0.8	30.9
	SOD	eP	07 26 30					i	51.3		
	KJN	iP	07 26 50.9	0.9	11.6			eS	57 02		
	KEV	eP	07 26 20					ePKKP	03 04 39		
	H: 07 22 36						SOD	iP	02 46 46.1 D		
	68.7 N, 18.7 W, 33 km (R)							i	55.0		
	Iceland region						cont.				



January			T	A	January			T	A
	KJN	iP 02 46 39.8 D i 49.2 eS 56 55	0.8	39.1		KEV	iP 09 44 29.5 U eLR 10 00.5	0.8	25.3
	KEV	iP 02 46 47.3 D H: 02 34 03.0 2.5 S, 102.5 E, 33 km (R) Southern Sumatra				H: 09 35 25.7 54.8 N, 161.7 E, 33 km (R) Kamchatka			
28	NUR	eP 04 40 01			29	NUR	eP 20 13 33		
	KJN	eP 04 40 05	1.0	13.7		SOD	iP 20 13 48.4 D i 55.7		
28	KJN	eP 09 05 36				KJN	iP 20 13 32.5 D i 38.5 ePP 15 05	0.9	31.1
28	NUR	eSS 16 50 16 H: 16 15 35.0 4.0 S, 104.2 W, 33 km (R) Easter Island Cordillera				KEV	eP 20 13 55	0.9	18.5
						H: 20 06 02.4 35.6 N, 73.6 E, 33 km (R) Northwestern Kashmir			
28	NUR	eP 23 14 53 i 15 01.2			29	NUR	iP 22 42 46.4	0.5	19.3
	SOD	eP 23 16 06				SOD	eP 22 42 03		
	KJN	eP 23 15 26 i 36.8				KJN	iP 22 42 22.0 D	0.7	14.2
	H: 23 10 44.2 42.7 N, 23.2 E, 33 km (R) Bulgaria					H: 22 31 56.3 51.3 N, 179.0 W, 33 km (R) Andreanof Islands			
29	NUR	eP 01 34 10			29	NUR	iP 23 44 33.1 U	1.0	37.8
	SOD	eP 01 33 41				SOD	eP 23 45 32		
	KJN	iP 01 33 49.8 D	0.7	8.1		KJN	eP 23 45 02		
	H: 01 22 57.0 36.1 N, 140.3 E, 33 km (R) Honshu, Japan					KEV	eP 23 45 55		
						H: 23 39 02.5 34.8 N, 27.6 E, 36 km Mediterranean Sea			
29	NUR	ePKP 03 46 39							
	KJN	ePKP 03 46 33			30	NUR	iP 04 48 02.2 D	0.8	28.7
	H: 03 28 18.0 21.2 S, 178.9 W, 550 km (R) Fiji Islands region					SOD	eP 04 47 18		
						KJN	iP 04 47 37.3 U	0.8	11.6
29	NUR	iP 09 45 31.4 U i 46.6 ePPP 49 18 eS 53 36 eSS 57 46 eLQ 10 02 eLR 10 04	0.9	175.4		H: 04 37 15.1 51.6 N, 179.8 W, 33 km (R) Andreanof Islands			
	SOD	iP 09 44 46.3 U e 45 06 ePcP 52			30	NUR	iPKP 09 00 13.1 D	0.9	51.0
	KJN	iP 09 45 04.6 U i 24.6 ePcP 46 00.6	1.0	91.2		SOD	ePKP 08 59 56		
		cont.				KJN	ePKP 09 00 01 i 07.4		
						H: 08 40 35 32.6 S, 178.3 W, 55 km (R) Kermadec Islands			
					30	NUR	eP 09 18 29		
					30	SOD	eP 13 46 33		

January				T	A	January				T	A
30	NUR	eP	15 59 57			31	NUR	eP	03 19 16		
	SOD	eP	15 59 14				SOD	eP	03 18 29		
	H: 15 49 28.9						e				38
	50.0 N, 157.9 E, 33 km (R)						KJN	eP	03 18 51		
	Kurile Islands						KEV	eP	03 18 05		
30	NUR	iPKP	18 00 02.8 U	0.8	80.0		H: 03 09 17.2				
	SOD	iPKP	17 59 52.3 U				60.3 N, 147.8 W, 33 km (R)				
	KJN	iPKP	17 59 55.8 U	0.9	83.1		Southern Alaska				
	KEV	iPKP	17 59 48.0 U	0.7	22.1	31	SOD	eP	16 56 24		
	H: 17 42 12.3					31	NUR	eP	23 47 03	0.8	19.1
	13.0 S, 169.4 E, 647 km						SOD	eP	23 46 18		
	Santa Cruz Islands						KJN	iP	23 46 38.2	0.7	8.5
30	NUR	ePKP	18 24 12	0.8	34.7		iPcP				47 12.0
	SOD	ePKP	18 24 02				KEV	eP	23 45 59		
	KJN	iPKP	18 24 04.8 U	0.8	34.2		H: 23 36 13.4				
	KEV	ePKP	18 23 57	0.7	13.8		51.2 N, 178.6 E, 33 km (R)				
	H: 18 06 21.2						Rat Islands				
	12.9 S, 169.5 E, 649 km										
	Santa Cruz Islands										
31	NUR	eP	01 13 49								
	SOD	eP	01 14 00								
	KJN	eP	01 13 56								
31	NUR	eP	02 48 59								
	SOD	iP	02 49 16.2 U								
	KJN	eP	02 48 59	0.8	10.6						
	KEV	iP	02 49 24.0 U	0.6	14.4						

July 8, 1965
Urmans Luosto
Aili Huovila

February					February				
			T	A			T	A	
1	NUR	ePKP	05 45 21						
		i	32.2						
		esPKP	48 09						
		iSKP	16.0						
		iPP	22.2						
		ePKS	49 01						
	SOD	ePKP	05 45 10						
		e	20						
		iSKP	47 55.3						
		ePKS	48 38						
	KJN	ePKP	05 45 18						
		i	23.9	0.8	25.2				
		ePP	47 44						
		iSKP	48 07.2						
		iPKS	50.3						
	KEV	iPKP	05 45 14.3 U	1.0	24.0				
		H:	05 27 04.5						
			18.6 S, 178.1 W, 472 km (R)						
			Fiji Islands region						
1	NUR	ePKP	08 49 49						
	SOD	eSKP	08 52 16						
	KJN	ePKP	08 49 40						
		eSKP	52 25						
		H:	08 31 20.7						
			21.4 S, 178.6 W, 510 km (R)						
			Fiji Islands region						
2	NUR	iP	04 24 47.0 U	0.8	30.9				
	SOD	iP	04 24 15.9 U						
	KJN	iP	04 24 26.3 U	0.8	39.9				
		H:	04 13 41.1						
			38.0 N, 142.1 E, 33 km (R)						
			Honshu, Japan						
2	NUR	eP	04 25 43						
	KJN	iP	04 25 22.5 D	0.9	20.3				
2	NUR	eP	04 43 12	0.6	7.4				
	SOD	iP	04 42 57.6 D						
	KJN	iP	04 43 08.1 D	0.8	17.9				
		H:	04 30 33.1						
			17.2 N, 94.5 W, 140 km						
			Chiapas, Mexico						
2	KJN	eP	08 12 04	0.8	8.1				
		H:	07 58 15.6						
			2.1 S, 138.9 E, 12 km						
			West New Guinea						
2	NUR	ePKP	10 17 12						
		eSKP	20 43						
		ePKS	57						
			cont.						
	SOD	iSKP	10 20 23.8						
	KJN	iPKP	10 17 16.2	0.8	9.8				
		iSKP	20 31.8						
		ePKS	44						
		H:	09 58 17.7						
			21.4 S, 176.2 W, 171 km (R)						
			Fiji Islands region						
2	NUR	iP	16 04 08.8 U	0.7	95.5				
		ePP	05 36						
		eS	09 58						
		e	10 42						
		e	11 44						
		eLQ	16 13.0						
		eLR	16 15.0						
	SOD	iP	16 04 21.6						
		i	25.7						
		i	39.0						
		ePP	05 52						
	KJN	eP	16 04 05	0.7	15.5				
		i	07.4	1.0	147.2				
		i	05 21.4						
		iPP	37.3						
		eS	10 04						
	KEV	iP	16 04 29.0 U						
		e	05 38						
		eS	10 36						
		eSS	13 32						
		eLR	16 16.0						
		H:	15 56 51.0						
			37.5 N, 73.4 E, 33 km (R)						
			Tadzhik, SSR						
2	SOD	eP	19 32 04						
	KJN	eP	19 32 19						
		e	37						
		H:	19 21 54						
			50.0 N, 177.1 W, 33 km (R)						
			Andreanof Islands						
3	NUR	eP	01 22 52						
	KJN	eP	01 23 35						
		H:	01 18 43						
			43.3 N, 17.9 E, 33 km (R)						
			Yugoslavia						
3	KJN	eP	04 38 27	1.1	22.6				
4	NUR	iPKP	03 44 34.0	1.4	114.8				
		i	38.3						
		e	45 20						
		e	46 24						
		ePKS	48 12						
		eSKKS	54 39						
		eSKSP	58 04						
			cont.						

February

February

				T	A
	eSS	04 06 06			
SOD	ePKP	03 44 34			
	i	36.0			
	i	40.6			
	e	46 55			
KJN	ePKP	03 44 30			
	i	36.4	1.4	95.4	
	e	46 04			
	ePP	47 37			
KEV	iPKP	03 44 34.4	0.7	13.5	
	i	39.6	1.3	244.5	
	e	46 40			
	e	48 32			
H: 03 25 00.8					
51.8 S, 139.7 E, 33 km (R)					
South of Australia					
4	NUR	eP 03 51 33			
	SOD	eP 03 50 33			
	KJN	eP 03 51 07	1.0	17.1	
4	NUR	eP 04 46 21			
	SOD	iP 04 46 10.1 D			
	KJN	iP 04 46 10.6 D	1.0	13.7	
H: 04 33 09.5					
3.9 N, 128.7 E, 41 km					
North of Halmahera					
4	NUR	iP 05 04 46.1	1.3	44.3	
	i	05 01.7			
	iPcP	20.0			
	SOD	eP 05 04 02			
	KJN	iP 05 04 21.0	0.7	19.4	
	KEV	eP 05 03 45			
H: 04 53 57.7					
51.1 N, 178.4 E, 40 km (R)					
Rat Islands					
4	NUR	iP 05 12 08.2 U	0.8	1368.0	
	SOD	iP 05 11 23.8			
		eP'P' 41 03			
	KJN	iP 05 11 42.5			
	i	58.0			
	KEV	eP 05 11 10			
	i	17.0			
H: 05 01 21.8					
51.3 N, 178.6 E, 40 km (R)					
Rat Islands					
4	NUR	iP 05 35 36.2 U	1.0	140.0	
4	NUR	eP 05 37 16	1.2	290.7	
	SOD	eP 05 36 31			
	KEV	eP 05 36 19	0.7	40.6	
	e	37 17			

				T	A
4	NUR	eP 05 39 15	0.9	47.0	
	SOD	eP 05 38 30			
4	NUR	eP 05 40 59	0.8	99.4	
	SOD	iP 05 40 14.6			
4	SOD	eP 05 57 13			
4	NUR	eP 06 01 37			
	SOD	iP 06 00 53.0 D			
4	SOD	eP 06 05 43			
4	SOD	eP 06 05 57			
4	SOD	iP 06 06 17.0 D			
4	NUR	iP 06 15 38.8 D	1.4	254.2	
	SOD	iP 06 14 55.0 D			
	KJN	iP 06 15 13.0	1.1	76.5	
	KEV	eP 06 14 39			
H: 06 04 58					
51.7 N, 174.9 E, 35 km (R)					
Rat Islands					
4	NUR	iP 06 17 45.0	0.9	52.1	
	SOD	iP 06 17 03.0 U			
4	NUR	eP 06 26 58	1.0	46.0	
	SOD	iP 06 26 13.8 D			
	KJN	eP 06 26 32	1.0	25.1	
H: 06 16 22					
52.2 N, 172.3 E, 30 km (R)					
Rat Islands					
4	NUR	iP 06 31 50.5	0.7	18.1	
4	NUR	iP 06 32 38.0	0.9	47.0	
	SOD	eP 06 31 54			
	KJN	eP 06 32 14	1.0	30.8	
4	NUR	iP 06 35 54.2 D	0.9	97.4	
	SOD	iP 06 35 10.8 D			
	i	23.2			
	KJN	iP 06 35 35.0			
	KEV	eP 06 34 52	1.0	21.0	
4	NUR	eP 06 39 48	0.8	31.7	
	SOD	eP 06 39 05			
	KJN	iP 06 39 23.1	1.0	16.0	
4	NUR	iP 06 41 10.3 D	0.8	31.7	



February

February

				T	A
4	NUR eP	06 45 00		0.8	56.2
	SOD iP	06 44 15.6 D			
	KJN eP	06 44 34			
	H: 06 34 17.0				
	52.2 N, 177.1 E, 25 km (R)				
	Rat Islands				
4	KJN eP	06 46 25		0.7	12.9
4	NUR iP	06 47 38.3 U	0.8		96.5
	SOD iP	06 46 53.8 U			
	KJN iP	06 47 12.2 U	1.1		59.8
	KEV eP	06 46 36			
	H: 06 37 05.4				
	52.6 N, 172.0 E, 35 km (R)				
	Rat Islands				
4	NUR iP	06 50 13.0 D	1.0		48.0
	iPcP	45.0			
	SOD iP	06 49 29.3			
	i	54.6			
	iPcP	50 18.2			
	KJN eP	06 49 48	1.0		36.5
	iPcP	50 29.2			
	KEV eP	06 49 13	1.0		21.0
	iPcP	50 07.9			
	H: 06 39 30.1				
	51.7 N, 175.8 E, 30 km (R)				
	Rat Islands				
4	NUR eP	06 52 34		0.8	14.4
	SOD eP	06 51 49			
	KJN iP	06 52 08.8		0.7	12.9
	KEV eP	06 51 34			
4	NUR iP	06 53 55.5 D	0.8		36.0
	i	54 07.1			
	KJN iP	06 53 30.0 D	1.1		34.8
4	NUR iP	06 58 35.0 D	0.8		33.1
	i	45.0			
	SOD eP	06 57 51			
	KJN iP	06 58 09.2 D	0.9		18.3
4	NUR eP	06 59 46			
	KJN eP	06 59 18	0.9		10.6
4	NUR iP	07 03 29.5 U	0.7		113.5
	SOD iP	07 02 44.3 U			
	KJN iP	07 03 03.2 U	0.9		46.3
	KEV iP	07 02 27.2 U	0.9		22.5
	H: 06 52 51.7				
	52.2 N, 173.1 E, 33 km (R)				
	Rat Islands				

				T	A
4	SOD eP	07 04 49			
	KJN eP	07 05 09			
4	NUR iP	07 07 03.0	1.0		36.0
	SOD eP	07 06 18			
	KJN eP	07 06 33	1.0		11.4
4	NUR eP	07 09 39		0.7	9.0
4	NUR eP	07 11 12			
4	NUR eP	07 18 25			
	SOD eP	07 17 40			
4	NUR eP	07 19 11			
4	NUR eP	07 20 53	1.0		18.0
	KJN eP	07 20 17	1.0		9.1
4	NUR iP	07 22 10.5	1.0		154.0
	SOD iP	07 21 26.2 U			
	ePcP	22 13			
	KJN iP	07 21 45.1 U	1.2		160.6
	KEV iP	07 21 10.0 U	1.0		45.8
	H: 07 11 22.7				
	51.1 N, 177.7 E, 35 km (R)				
	Rat Islands				
4	NUR eP	07 24 17		0.6	22.5
	KEV eP	07 23 25			
4	NUR iP	07 25 39.0 D	1.1		190.4
	SOD iP	07 24 54.6 D			
	KJN iP	07 25 13.1 D	1.0		59.3
	KEV iP	07 24 37.5	0.7		27.1
	H: 07 14 58.7				
	52.0 N, 173.9 E, 25 km (R)				
	Rat Islands				
4	NUR iP	07 26 43.5 U	1.0		78.0
4	NUR eP	07 29 01			
	KJN eP	07 28 24			
4	NUR eP	07 33 50			
	i	53.0	0.8		49.0
	eS	42 33			
	SOD iP	07 33 08.6			
	i	14.4 D			
	ePcP	34 02			
	eS	41 18			
	KJN iP	07 33 26.9	0.9		12.5
	i	33.0 D	1.0		94.6
	cont.				

February

February

			T	A				T	A
	KEV	eP	07 32 56						
		i	33 13.1						
	H: 07 23 12.3								
	51.9 N, 173.2 E, 25 km (R)								
	Rat Islands								
4	NUR	eP	07 35 52	1.0	30.0				
4	NUR	iP	07 38 47.0	0.8	18.7				
	KJN	eP	07 38 21						
4	NUR	eP	07 40 37	0.9	11.8				
	SOD	eP	07 39 43						
4	NUR	eP	07 42 52						
	SOD	eP	07 42 06						
	KJN	eP	07 42 27						
	H: 07 31 58.9								
	50.6 N, 176.9 E, 25 km (R)								
	Rat Islands								
4	NUR	eP	07 51 18						
	SOD	eP	07 50 32						
	H: 07 40 27								
	50.9 N, 177.7 E, 33 km (R)								
	Rat Islands								
4	NUR	eP	07 51 59	0.9	21.8				
	SOD	eP	07 51 11						
	KJN	eP	07 51 32						
4	NUR	eP	07 53 14						
	SOD	eP	07 52 30						
	KJN	iP	07 52 51.1 D	0.9	12.5				
4	NUR	eP	07 53 27	0.8	20.2				
4	NUR	iP	07 54 16.5	0.7	18.1				
		i	18.0	1.0	94.0				
		ePcP	51						
	SOD	iP	07 53 33.2 U						
	KJN	iP	07 53 51.7	1.0	22.8				
		ePcP	54 31						
	KEV	iP	07 53 15.8	0.9	19.3				
	H: 07 43 43.2								
	52.7 N, 172.9 E, 33 km (R)								
	Rat Islands								
4	NUR	eP	07 55 19						
	SOD	iP	07 54 26.3						
4	NUR	eP	07 56 59						
	KJN	iP	07 56 34.0	0.7	8.1				
	KEV	eP	07 55 56						
4	NUR	iP	08 02 19.5	0.8	17.3				
	SOD	eP	08 01 33						
	KJN	eP	08 01 55						
	H: 07 51 40								
	52.3 N, 174.5 E, 20 km (R)								
	Rat Islands								
4	NUR	iP	08 03 34.5 D	1.0	16.0				
	SOD	eP	08 02 50						
	KEV	eP	08 02 35						
4	NUR	eP	08 04 14	0.7	10.3				
	KJN	eP	08 03 49						
	H: 07 53 38.7								
	53.5 N, 179.3 E, 30 km (R)								
	Rat Islands								
4	NUR	eP	08 07 15	0.9	30.2				
	SOD	eP	08 06 30						
	KJN	eP	08 06 49	1.0	22.8				
	H: 07 56 31								
	51.6 N, 174.9 E, 33 km (R)								
	Rat Islands								
4	NUR	eP	08 09 55	0.9	10.1				
		e	10 08						
	SOD	eP	08 09 23						
	KJN	iP	08 09 41.6	0.9	17.4				
4	NUR	eP	08 11 18	1.0	18.0				
	KJN	eP	08 10 49						
	H: 08 00 41								
	52.7 N, 175.7 E, 33 km (R)								
	Rat Islands								
4	NUR	iP	08 14 46.9 D	1.0	48.0				
		ePcP	15 19						
	SOD	eP	08 14 02						
		i	05.8						
		ePcP	57						
	KJN	iP	08 14 21.1 D	1.1	30.6				
	KEV	eP	08 13 47						
	H: 08 04 09.4								
	52.1 N, 172.8 E, 30 km (R)								
	Rat Islands								
4	NUR	iP	08 16 55.2 U	1.1	95.2				
		i	17 08.2						
	SOD	iP	08 16 11.1						
		e	17 16						
	KJN	iP	08 16 29.8 U	1.3	64.5				
		i	45.0	1.0	45.6				

cont.

February

February

February						February					
				T	A					T	A
	KEV	eP	08 15 54	0.9	20.9	4	NUR	eP	08 50 15	1.1	26.2
	H:		08 06 16.6				H:		08 39 22.6		
	51.9 N, 174.3 E, 40 km (R)						51.2 N, 179.3 E, 25 km (R)				
	Rat Islands						Rat Islands				
4	NUR	iP	08 20 48.8	1.0	42.0	4	NUR	iP	08 51 28.5	1.2	812.3
	SOD	eP	08 20 04				eS	09 00 18			
	KJN	iP	08 20 23.1	0.7	7.3		eP'P'	19 55			
	H:		08 10 09.6				SOD	iP	08 50 42.3		
	52.1 N, 173.3 E, 30 km (R)						i	45.1 U			
	Rat Islands						eS	58 54			
4	NUR	eP	08 21 55	0.8	28.8		eP'P'	09 20 09			
	SOD	iP	08 21 09.5 D				KJN	eS	08 59 31		
	KJN	iP	08 21 28.0 D	0.6	11.3		i	09 01 03.8			
4	NUR	eP	08 28 02				iP'P'	20 08.0			
	SOD	eP	08 27 18				KEV	iP	08 50 28.2 D	1.1	54.8
	KJN	eP	08 27 38				i	31.0 U	1.4	431.2	
4	NUR	eP	08 31 32				i	51 44.0			
	SOD	iP	08 30 50.2 D				ePP	52 39			
	KJN	eP	08 31 07	0.7	9.7		ePPP	54 14			
	KEV	eP	08 30 33				eS	58 26			
	H:		08 40 40.9				eP'P'	09 20 17			
	51.3 N, 179.5 E, 40 km (R)						H:		08 40 40.9		
	Rat Islands						51.3 N, 179.5 E, 40 km (R)				
4	NUR	eP	08 34 44				Rat Islands				
	SOD	eP	08 34 03			4	NUR	eP	09 04 43		
	KJN	eP	08 34 17				SOD	e(P)	09 04 04		
4	NUR	eP	08 35 47	1.0	14.0		KEV	eP	09 03 42		
	SOD	eP	08 34 55				H:		08 54 04.3		
	KJN	eP	08 35 10	1.2	25.4		52.0 N, 172.5 E, 30 km (R)				
	Rat Islands						Rat Islands				
4	NUR	eP	08 41 24			4	NUR	eP	09 08 34	0.9	26.9
	SOD	eP	08 40 39				SOD	eP	09 07 50		
	KJN	eP	08 40 59	1.0	12.5		KEV	eP	09 07 31		
4	NUR	iP	08 44 20.9	1.2	99.8		H:		08 57 55.5		
	SOD	iP	08 43 36.6				52.1 N, 174.6 E, 32 km				
	KJN	iP	08 43 55.2				Rat Islands				
	KEV	iP	08 43 20.6			4	NUR	iP	09 09 54.4 D	0.8	57.6
	H:		08 33 40.9				SOD	eP	09 09 10		
	51.9 N, 174.0 E, 30 km (R)						KJN	iP	09 09 29.0 U		
	Rat Islands						KEV	eP	09 08 54		
4	NUR	iP	08 47 55.3 D	1.0	80.0		i	09 13.0			
	SOD	iP	08 47 11.2				H:		08 59 17.9		
	i	48 11.1					52.4 N, 173.7 E, 25 km (R)				
	KJN	iP	08 47 29.8 D	1.3	60.3		Rat Islands				
	H:		08 37 14.5			4	NUR	iP	09 11 11.0 D	0.9	80.6
	51.7 N, 174.6 E, 35 km (R)						SOD	iP	09 10 24.6		
	Rat Islands						KJN	iP	09 10 44.5 U		

cont.

February						February					
			T	A				T	A		
	KEV	eP	09 10 08	0.8	11.1	4	NUR	eP	09 41 54	0.8	7.2
	H:	09 00	31.5				KJN	eP	09 41 24		
			51.9 N, 174.3 E, 35 km (R)								
			Rat Islands								
4	NUR	eP	09 12 28			4	NUR	iP	09 42 14.3	0.8	14.4
		i	34.2	0.8	34.6		SOD	eP	09 41 31		
	KJN	eP	09 12 09				KJN	eP	09 41 48		
							KEV	eP	09 41 13		
4	NUR	iP	09 17 12.8 D	0.8	17.3	4	NUR	iP	09 46 03.0	1.2	51.3
	SOD	eP	09 16 29					i	11.0		
	KJN	iP	09 16 47.5 D	1.0	18.6		SOD	eP	09 45 19		
	H:	09 06	27					i	26.8		
			51.2 N, 177.4 E, 40 km (R)				KJN	iP	09 45 38.1 U	1.2	47.0
			Rat Islands					i	45.0	1.2	69.6
							KEV	eP	09 45 07		
							H:	09 35	20.3		
4	NUR	iP	09 22 42.0	1.0	38.0				51.8 N, 176.6 E, 30 km (R)		
	SOD	iP	09 21 58.0						Rat Islands		
	KJN	iP	09 22 17.0 D								
	KEV	iP	09 21 40.1 U			4	NUR	iP	09 48 12.0 U	1.0	34.0
	H:	09 11	55.5					i	19.5 D		
			50.9 N, 174.3 E, 35 km (R)				SOD	eP	09 47 28		
			Rat Islands					i	35.3		
4	NUR	eP	09 27 05				KJN	iP	09 47 47.0	1.2	31.3
								i	55.0		
4	NUR	eP	09 29 11				H:	09 37	28.4		
	KJN	eP	09 28 46						51.8 N, 176.3 E, 25 km (R)		
									Rat Islands		
4	NUR	iP	09 30 46.5	1.0	26.0	4	SOD	eP	09 51 11		
	SOD	iP	09 30 02.6				KJN	eP	09 51 29		
	KJN	iP	09 30 21.0	0.9	19.7	4	NUR	iP	09 53 35.5 D	1.0	36.0
		i	34.0	1.1	27.0		SOD	eP	09 52 51		
	KEV	eP	09 29 45				KJN	eP	09 53 09	1.0	15.1
	H:	09 20	02.0				KEV	eP	09 52 39		
			51.6 N, 176.3 E, 35 km (R)				H:	09 42	51.6		
			Rat Islands						51.8 N, 174.6 E, 15 km (R)		
									Rat Islands		
4	NUR	eP	09 35 37	1.2	28.5	4	NUR	eP	09 59 15		
	SOD	eP	09 34 53				SOD	eP	09 58 27		
	KJN	eP	09 35 12				KJN	eP	09 58 43		
4	NUR	eP	09 36 27				H:	09 48	25.9		
	SOD	eP	09 35 43						51.8 N, 175.4 E, 25 km		
	KJN	eP	09 36 02	0.9	7.9				Rat Islands		
4	NUR	eP	09 38 35	0.8	21.6	4	SOD	eP	10 00 10		
4	NUR	iP	09 38 56.0	0.8	17.3	4	NUR	iP	10 01 55.2	0.8	11.5
	SOD	iP	09 38 12.2 D			4	NUR	eP	10 02 46	1.4	57.4
	KJN	iP	09 38 31.0	0.9	16.7		SOD	eP	10 02 02		
	KEV	eP	09 38 01								

cont.

February

February

February						February					
			T	A				T	A		
	KJN	iP	10 02 21.1	1.3	40.3		i		28.0	D	
	KEV	eP	10 01 49			KJN	iP	10 40 52.9			
	H: 09 52 02.9					H: 10 30 40.8					
	51.5 N, 175.9 E, 30 km (R)					51.8 N, 173.3 E, 30 km (R)					
	Rat Islands					Rat Islands					
4	NUR	iP	10 11 43.2	1.0	42.0	4	KJN	eP	10 43 50		
	SOD	eP	10 10 59			4	NUR	eP	10 45 57	1.1	14.3
	KJN	iP	10 11 17.5	D 0.9	17.7	H: 10 35 13.7					
	H: 10 01 01.5					51.7 N, 174.5 E, 25 km (R)					
	51.7 N, 174.7 E, 33 km (R)					Rat Islands					
	Rat Islands										
4	NUR	iP	10 15 07.0	D 0.9	30.2	4	NUR	eP	10 49 27	1.0	8.0
	SOD	eP	10 14 23			KJN	eP	10 49 00			
	KJN	iP	10 14 41.0	1.0	17.4	e 12					
	H: 10 04 30.1					H: 10 38 44.6					
	52.0 N, 173.2 E, 40 km (R)					51.7 N, 175.2 E, 35 km (R)					
	Near Islands					Rat Islands					
4	NUR	eP	10 23 09			4	NUR	iP	10 50 08.0	D 0.7	19.4
	SOD	eP	10 22 27			SOD	eP	10 49 24			
	KJN	eP	10 22 46	1.0	12.8	KJN	eP	10 49 42			
	H: 10 12 25.7					KEV eP 10 49 07					
	51.8 N, 176.6 E, 33 km (R)					H: 10 39 32					
	Rat Islands					52.2 N, 172.9 E, 33 km (R)					
						Rat Islands					
4	NUR	iP	10 25 05.5	1.0	46.0	4	NUR	iP	10 52 18.5	U 1.0	24.0
	SOD	eP	10 24 21			SOD	iP	10 51 34.5	U		
	KJN	iP	10 24 39.8	1.1	15.6	KJN	eP	10 51 52			
	KEV	eP	10 24 06			KEV	eP	10 51 18	0.9	16.4	
	H: 10 14 24.2					H: 10 41 33.9					
	51.8 N, 172.7 E, 20 km (R)					51.5 N, 176.5 E, 35 km (R)					
	Rat Islands					Rat Islands					
4	NUR	eP	10 25 44			4	NUR	iP	10 52 57.0	1.0	26.0
	KJN	eP	10 25 18	1.2	13.9	KJN	iP	10 52 27.0	0.9	11.8	
4	NUR	eP	10 26 05	0.7	12.9	4	NUR	iP	11 11 11.5	D 1.0	26.0
4	SOD	eP	10 32 36			i 24.0 D					
H: 10 22 44						SOD eP 11 10 27					
50.5 N, 170.9 E, 33 km (R)						i 39.9 D					
Rat Islands						KJN iP 11 10 46.5 0.9 16.7					
						i 58.8 D 1.0 41.8					
4	NUR	eP	10 37 04			KEV eP 11 10 11 0.9 11.5					
	KJN	eP	10 36 43			i 23.2					
H: 10 26 21.1						H: 11 00 27.6					
51.3 N, 171.9 E, 15 km (R)						51.5 N, 176.5 E, 40 km (R)					
Rat Islands						Rat Islands					
4	NUR	eP	10 41 18	1.5	46.7	4	NUR	eP	11 17 02		
cont.						SOD eP 11 16 18					
						cont.					

February

	T	A		
KJN eP	11 16 37			
H:	11 06 23			
	52.0 N, 173.2 E, 25 km (R)			
	Rat Islands			
4 SOD eP	11 18 44			
KJN eP	11 19 05			
H:	11 08 46.0			
	51.4 N, 176.1 E, 35 km (R)			
	Rat Islands			
4 NUR eP	11 26 17	0.8	10.1	
SOD eP	11 25 32			
KJN eP	11 25 51			
H:	11 15 30.8			
	51.6 N, 175.4 E, 20 km (R)			
	Rat Islands			
4 NUR iP	11 29 26.5	1.0	36.0	
SOD eP	11 28 43			
KJN iP	11 29 01.2 D	1.0	20.9	
H:	11 18 42.9			
	51.6 N, 175.0 E, 25 km (R)			
	Rat Islands			
4 NUR eP	11 31 24	0.8	11.5	
KJN eP	11 31 08			
H:	11 20 47.8			
	52.3 N, 173.0 E, 33 km (R)			
	Rat Islands			
4 NUR iP	11 33 49.5	0.8	12.3	
SOD eP	11 33 05			
KJN iP	11 33 24.0	1.0	11.6	
H:	11 23 10.7			
	52.1 N, 172.9 E, 15 km (R)			
	Rat Islands			
4 SOD eP	11 36 29			
4 NUR iP	11 38 04.0	1.0	18.0	
SOD eP	11 37 21			
KJN eP	11 37 39			
H:	11 27 22.0			
	51.5 N, 174.9 E, 20 km (R)			
	Rat Islands			
4 NUR iP	11 43 40.5	1.0	36.0	
SOD eP	11 42 55			
KJN iP	11 43 14.7	1.0	19.7	
H:	11 33 11.7			
	53.9 N, 174.9 E, 35 km (R)			
	Near Islands			

February

	T	A		
4 NUR eP	11 46 47			
H:	11 36 05			
	52.3 N, 175.7 E, 33 km (R)			
	Rat Islands			
4 NUR iP	11 59 09.2 U	1.1	52.4	
i	20.6			
SOD eP	11 58 26			
i	38.0			
KJN iP	11 58 44.2 U	1.2	52.2	
H:	11 48 23.9			
	51.2 N, 177.2 E, 40 km (R)			
	Rat Islands			
4 KJN eP	12 02 41			
4 NUR eP	12 03 40	0.7	10.1	
4 NUR iP	12 08 49.6	1.1	30.3	
SOD eP	12 08 08			
KJN iP	12 08 24.3	1.0	19.7	
KEV eP	12 07 49			
H:	11 58 06.9			
	51.6 N, 176.3 E, 40 km (R)			
	Rat Islands			
4 NUR eP	12 13 18	0.9	29.5	
KJN eP	12 12 54			
4 NUR iP	12 16 37.0 D	0.9	393.6	
ePP	19 07			
eS	25 12			
eScS	26 28			
eP'P'	45 44			
SOD iP	12 15 52.2			
eS	23 47			
eP'P'	45 31			
KJN iP	12 16 10.8			
i	12.5	1.2	273.2	
e	18 07			
eS	24 24			
e	25 25			
iScS	26 12.0			
eP'P'	45 46			
KEV iP	12 15 36.5 U	1.0	72.5	
i	45.0			
H:	12 06 04.3			
	52.6 N, 172.1 E, 25 km (R)			
	Rat Islands			
4 SOD eP	12 24 28			
4 NUR eP	12 26 00			
KJN eP	12 25 33			

February						February					
				T	A					T	A
4	NUR	iP	12 27 34.2	0.8	16.9	KJN	eP	13 17 21	0.6	6.6	
	SOD	eP	12 26 49			H:		13 07 02.8			
	KJN	eP	12 27 08	0.8	6.9			52.5 N, 179.0 E, 33 km (R)			
								Rat Islands			
4	SOD	iP	12 27 40.3								
4	NUR	eP	12 30 48			4	NUR	eP	13 22 24	1.1	21.0
	SOD	eP	12 30 04			H:		13 11 51.2			
	KJN	eP	12 30 23					53.8 N, 177.3 E, 30 km (R)			
	H:		12 20 05					Rat Islands			
			51.5 N, 178.6 E, 33 km (R)			4	NUR	eP	13 23 19	1.1	16.3
			Rat Islands								
4	NUR	eP	12 53 00			4	NUR	iP	13 23 26.0		
	SOD	eP	12 52 14				SOD	eP	13 22 41		
	KJN	eP	12 52 34	0.9	9.8		KJN	iP	13 23 00.5	0.9	13.8
	H:		12 42 14.4				H:		13 12 39.2		
			51.6 N, 177.0 E, 25 km (R)					51.0 N, 175.5 E, 25 km (R)			
			Rat Islands					Rat Islands			
4	NUR	e(P)	12 54 56	1.1	14.0	4	SOD	eP	13 33 47		
	SOD	eP	12 54 04				H:		13 23 42		
	KJN	eP	12 54 24					51.4 N, 176.3 E, 33 km (R)			
	H:		12 44 13					Rat Islands			
			52.0 N, 177.7 E, 33 km (R)			4	NUR	iP	13 40 37.0	0.8	38.1
			Rat Islands				SOD	iP	13 39 52.8		
4	NUR	iP	13 01 40.2 U	1.1	128.2		KJN	iP	13 40 11.3	0.7	18.2
	ePcP		02 12				KEV	eP	13 39 37		
	SOD	iP	13 00 56.1				H:		13 29 54.6		
	iPcP		01 45.6					51.6 N, 174.7 E, 30 km (R)			
	KJN	iP	13 01 15.0 U	1.2	73.1			Rat Islands			
	KEV	eP	13 00 40			4	NUR	eP	13 43 54	1.1	35.0
	H:		12 50 57.5				KJN	eP	13 43 29		
			51.6 N, 174.8 E, 25 km (R)				H:		13 33 12.9		
			Rat Islands					51.8 N, 174.6 E, 33 km (R)			
								Rat Islands			
4	NUR	iP	13 03 47.3	1.0	35.3	4	NUR	eP	13 46 53		
	SOD	eP	13 03 05				KJN	eP	13 46 30		
	KJN	eP	13 03 22	0.9	10.8		H:		13 36 11.8		
	KEV	eP	13 02 41					51.3 N, 175.1 E, 33 km (R)			
	H:		12 53 07.7					Rat Islands			
			52.1 N, 174.2 E, 25 km (R)			4	NUR	eP	13 55 52		
			Rat Islands				SOD	eP	13 55 07		
4	NUR	eP	13 11 26				KJN	eP	13 55 27		
	H:		13 00 37				H:		13 45 08		
			52.2 N, 171.0 E, 33 km (R)					50.7 N, 179.1 E, 35 km (R)			
			Rat Islands					Rat Islands			
4	NUR	eP	13 17 46			4	SOD	eP	14 02 05		
	SOD	eP	13 17 03				H:		13 52 04		
								51.7 N, 174.4 E, 30 km (R)			
								Rat Islands			

cont.

February

February

		T		A				T		A	
4	NUR iP	14 10 27.0	D	0.8	12.7	KJN iP	14 40 04.5	1.0	24.4		
	KJN eP	14 10 01				H: 14 29 44.7 51.4 N, 176.6 E, 35 km (R) Rat Islands					
4	NUR eP	14 13 12				4	NUR eP	14 41 11	1.3	36.6	
	KJN eP	14 12 48					SOD eP	14 40 27			
	H: 14 02 25.0 51.2 N, 177.3 E, 33 km (R) Rat Islands						KJN eP	14 40 43			
							H: 14 30 26.6 51.3 N, 176.3 E, 33 km (R) Rat Islands				
4	NUR iP	14 15 26.0		0.8	9.9	4	NUR eP	14 52 38	1.0	15.7	
	KJN eP	14 15 01		0.9	4.9		KJN eP	14 52 13	1.0	10.4	
	H: 14 04 47 51.3 N, 175.3 E, 33 km (R) Rat Islands						H: 14 41 53.4 51.4 N, 176.8 E, 40 km (R) Rat Islands				
4	NUR eP	14 16 26		1.0	18.6	4	NUR eP	14 53 47			
	KJN eP	14 16 01		1.0	7.0		H: 14 42 59.2 51.2 N, 179.3 E, 31 km Rat Islands				
4	NUR eP	14 24 01		0.8	14.1	4	NUR eP	14 59 38	0.9	21.3	
	KJN eP	14 23 37					SOD eP	14 58 54			
	H: 14 13 23.9 52.1 N, 173.1 E, 25 km (R) Rat Islands						KJN eP	14 59 13			
							H: 14 48 53.4 51.6 N, 173.9 E, 33 km (R) Rat Islands				
4	NUR eP	14 27 42		0.8	11.3	4	NUR eP	15 01 50			
	SOD eP	14 26 57					KJN eP	15 01 20			
4	NUR iP	14 28 57.6	U	1.0	588.3	4	NUR eP	15 14 18	0.9	14.8	
	ePP	31 23					SOD iP	15 13 35.0			
	iS	37 30.0					KJN iP	15 13 53.0			
	eScS	38 48					H: 15 03 33.8 51.4 N, 175.7 E, 30 km (R) Rat Islands				
	SOD iP	14 28 12.8	U			4	NUR eP	15 16 48			
	eS	36 06					KJN eP	15 16 25			
	eP'P'	58 03					H: 15 06 06.4 51.7 N, 174.2 E, 30 km (R) Rat Islands				
	KJN iP	14 28 31.4	U	0.9	164.3	4	NUR eP	15 19 33	1.2	19.5	
	e	30 43					KJN eP	15 19 04			
	iS	36 41.5				4	KJN eP	15 25 29			
	i	49.0					H: 15 14 50.0 51.3 N, 175.6 E, 35 km (R) Rat Islands				
	e	37 48									
	iScS	38 19.4									
	i	40.0									
	eP'P'	58 35									
	KEV iP	14 27 56.4	U	1.0	225.4						
	ePP	30 07									
	eS	35 36									
	H: 14 18 27.9 53.0 N, 171.0 E, 30 km (R) Rat Islands										
4	NUR eP	14 37 38									
4	NUR iP	14 40 30.0		1.0	39.2						
	SOD iP	14 39 46.2	D								

cont.

February						February					
				T	A					T	A
4	NUR	iP	15 41 47.5	0.7	10.1	KJN	iP	16 38 34.5	1.4	35.8	
	SOD	eP	15 41 02				H:	16 28 14.6			
	KJN	eP	15 41 21					51.5 N, 176.4 E, 35 km (R)			
			H: 15 31 14.1					Rat Islands			
			52.3 N, 172.3 E, 45 km (R)								
			Rat Islands			4	KJN	iP	16 39 01.0	1.0	15.1
4	NUR	iP	15 55 24.0	0.9	11.5	4	NUR	iP	16 43 14.0	0.9	29.5
	SOD	e(P)	15 55 09					e	22		
	KJN	eP	15 54 59				SOD	eP	16 42 30		
			H: 15 44 46.4					i	38.4		
			52.3 N, 174.3 E, 33 km (R)					e	43 31		
			Rat Islands				KJN	eP	16 42 48		
								e	56		
								H:	16 32 36.0		
									52.0 N, 173.1 E, 30 km (R)		
									Rat Islands		
4	NUR	eP	16 00 36			4	NUR	iP	17 02 17.1	1.3	30.0
	SOD	eP	15 59 52					SOD	eP	17 01 33	
	KJN	eP	16 00 11					KJN	iP	17 01 51.9	1.1
			H: 15 49 52.6						H:	16 51 33.9	
			51.2 N, 175.4 E, 40 km (R)							51.8 N, 176.4 E, 33 km (R)	
			Rat Islands							Rat Islands	
4	NUR	iP	16 01 53.0 U	1.3	346.3	4	NUR	iP	17 14 15.9 D	0.9	37.7
		eS	10 24					SOD	eP	17 13 31	
		eScS	11 41					KJN	iP	17 13 50.1 D	1.0
	SOD	iP	16 01 08.2 U						H:	17 03 43.8	
		i	13.6							52.8 N, 171.8 E, 30 km (R)	
	KJN	iP	16 01 27.0 U	1.3	169.6					Rat Islands	
		eS	09 46								
	KEV	iP	16 00 52.0 D	1.5	186.8						
		eS	08 29								
			H: 15 51 25.5								
			53.1 N, 170.8 E, 40 km (R)								
			Rat Islands								
4	NUR	eP	16 10 09	0.9	14.8	4	NUR	iP	17 15 22.5 U	1.0	50.1
	SOD	eP	16 09 23					SOD	iP	17 14 40.0 U	
	KJN	eP	16 09 43					KJN	iP	17 14 58.2 U	1.2
			H: 15 59 32.3						H:	17 04 35.4	
			52.1 N, 172.2 E, 33 km (R)							51.3 N, 176.9 E, 20 km (R)	
			Rat Islands							Rat Islands	
4	NUR	iP	16 14 27.0	0.9	18.0	4	NUR	iP	17 28 10.0 D	0.9	19.7
	SOD	eP	16 13 42					i	17.0		
	KJN	iP	16 14 02.8 U	0.8	8.7			SOD	eP	17 27 25	
			H: 16 03 35.8					e	32		
			50.6 N, 177.6 E, 33 km (R)					KJN	iP	17 27 44.0	0.9
			Rat Islands					i	51.0		13.8
									H:	17 17 29.4	
										51.7 N, 174.9 E, 40 km (R)	
										Rat Islands	
4	SOD	eP	16 31 06			4	NUR	eP	17 41 16	0.8	7.1
4	NUR	eP	16 39 00	0.9	11.5			KJN	eP	17 40 51	
	SOD	eP	16 38 16						H:	17 30 36.8	
										51.9 N, 172.9 E, 33 km (R)	
										Rat Islands	

cont.

February

February

				T	A					T	A
4	NUR	eP	17 57 46			4	NUR	eP	18 54 33		
	KJN	eP	17 57 14				SOD	eP	18 53 51		
	H: 17 47 01						KJN	eP	18 54 07		
	51.5 N, 175.7 E, 33 km (R)						H: 18 43 45.9				
	Rat Islands						51.3 N, 177.3 E, 33 km (R)				
							Rat Islands				
4	NUR	eP	18 01 23	1.1	21.0	4	NUR	iP	18 58 50.6 U	0.9	45.9
		e	32	0.9	46.0			ePcP	59 23		
	SOD	eP	18 00 40				SOD	iP	18 58 06.2 U		
		i	47.8					iPcP	56.1		
	KJN	eP	18 01 05				KJN	iP	18 58 25.0 U	1.0	38.3
	H: 17 50 43.4							iPcP	59 07.1	1.0	29.0
	51.9 N, 175.2 E, 25 km (R)						KEV	eP	18 57 49		
	Rat Islands						H: 18 48 11.0				
4	NUR	eP	18 12 12	0.8	26.2		52.0 N, 174.9 E, 40 km (R)				
	SOD	eP	18 11 23				Rat Islands				
	KJN	eP	18 11 46			4	NUR	eP	19 02 23	1.0	19.6
	H: 18 01 29.8						SOD	eP	19 01 39		
	51.6 N, 174.9 E, 35 km (R)						H: 18 51 49.0				
	Rat Islands						52.2 N, 171.9 E, 40 km (R)				
							Rat Islands				
4	NUR	eP	18 17 45			4	NUR	eP	19 06 53		
	SOD	eP	18 16 59				SOD	eP	19 06 08		
	KJN	eP	18 17 20				KJN	eP	19 06 27		
	H: 18 06 57						H: 18 56 04.5				
	50.9 N, 175.5 E, 20 km (R)						51.2 N, 178.2 E, 37 km				
	Rat Islands						Rat Islands				
4	NUR	eP	18 24 30	1.0	17.6	4	SOD	eP	19 07 11		
	SOD	eP	18 23 47				H: 18 56 27.7				
	KJN	eP	18 24 06				13.5 N, 44.8 W, 33 km (R)				
		i	14.5				North Atlantic Ridge				
	H: 18 13 50.9					4	NUR	iP	19 08 49.0 U	0.8	24.0
	51.9 N, 173.3 E, 30 km (R)							i	57.5		
	Rat Islands						SOD	eP	19 08 09		
4	NUR	iP	18 44 53.4 D	1.0	133.3		KJN	iP	19 08 22.9		
	SOD	iP	18 44 09.3 D				H: 18 58 12.6				
	KJN	iP	18 44 28.0 D	1.0	73.1		52.1 N, 173.0 E, 42 km (R)				
	KEV	eP	18 43 57				Rat Islands				
	H: 18 34 07.3					4	NUR	iP	19 12 07.0	0.8	28.2
	51.2 N, 176.7 E, 35 km (R)						SOD	eP	19 11 22		
	Rat Islands						KJN	iP	19 11 40.2	0.9	11.8
4	NUR	eP	18 50 30	0.8	18.3		KEV	iP	19 11 07.8 U		
	SOD	eP	18 49 50				H: 19 01 36.2				
	KJN	eP	18 50 05				52.7 N, 170.8 E, 35 km (R)				
		i	12.8				Rat Islands				
	H: 18 39 47.2										
	51.5 N, 174.8 E, 33 km (R)										
	Rat Islands										

February

February

				T	A					T	A	
	KJN	eP	20 57 34									
		i	39.7									
	H:		20 47 12.1									
			51.5 N, 175.4 E, 30 km (R)									
			Rat Islands									
4	NUR	eP	21 17 31									
4	NUR	eP	21 34 49									
		i	56.0	1.0	41.2							
	SOD	e(P)	21 34 09									
	KJN	eP	21 34 23									
		e	30									
	H:		21 24 05.7									
			51.6 N, 174.5 E, 30 km (R)									
			Rat Islands									
4	NUR	iP	21 36 09.0	0.9	21.3							
	SOD	eP	21 35 24									
	KJN	iP	21 35 44.0	0.9	12.1							
4	NUR	eP	21 40 15									
		i	19.0	0.9	27.9							
	SOD	eP	21 39 30									
	KJN	eP	21 39 50									
	KEV	eP	21 39 10									
	H:		21 29 38.9									
			52.4 N, 174.7 E, 15 km (R)									
			Rat Islands									
4	NUR	iP	21 46 35.9 D	0.9	23.0							
	SOD	eP	21 45 51									
	KJN	iP	21 46 10.5 D	0.9	14.1							
	KEV	eP	21 45 36									
	H:		21 35 47.3									
			51.0 N, 177.6 E, 33 km (R)									
			Rat Islands									
4	NUR	eP	21 49 35									
	SOD	eP	21 48 50									
	KJN	eP	21 49 10									
	H:		21 38 47.0									
			51.1 N, 177.3 E, 33 km (R)									
			Rat Islands									
4	NUR	eP	21 50 38									
4	NUR	iP	22 24 43.0	1.1	16.3							
	SOD	eP	22 23 56									
	KJN	eP	22 24 19									
	KEV	eP	22 23 46									
	H:		22 14 04.0									
			51.8 N, 173.9 E, 33 km (R)									
			Rat Islands									
4	NUR	iP	22 40 46.0 D	0.9	254.2							
	SOD	iP	22 40 02.0									
	KJN	iP	22 40 20.2 D	1.0	42.5							
	KEV	eP	22 39 43									
	H:		22 30 05.1									
			51.8 N, 174.2 E, 31 km (R)									
			Rat Islands									
4	NUR	iP	23 24 26.3	0.9	13.1							
	SOD	eP	23 23 42									
	H:		23 13 44.9									
			51.8 N, 174.7 E, 33 km (R)									
			Rat Islands									
4	NUR	iP	23 37 10.0	1.0	25.5							
	SOD	iP	23 36 26.1									
	KJN	iP	23 36 44.8 U	1.0	18.9							
	H:		23 26 22.5									
			51.3 N, 177.5 E, 30 km (R)									
			Rat Islands									
5	NUR	iP	00 33 52.0									
		i	34 04.2									
	SOD	eP	00 33 09									
		i	20.1									
	KJN	iP	00 33 27.2 D									
	H:		00 23 00.9									
			51.0 N, 177.5 E, 25 km (R)									
			Rat Islands									
5	NUR	iP	00 42 15.1	1.0	25.5							
	SOD	eP	00 41 31									
	KJN	iP	00 41 50.0	1.0	23.6							
	KEV	eP	00 41 14	0.7	9.2							
	H:		00 31 35.5									
			52.0 N, 176.6 E, 40 km (R)									
			Rat Islands									
5	NUR	iP	00 42 37.9	1.1	93.2							
	SOD	iP	00 41 53.6									
	KJN	iP	00 42 09.5	0.9	21.2							
5	NUR	iP	00 42 49.0	1.0	213.6							
	SOD	iP	00 42 05.2									
	KJN	iP	00 42 21.0	1.0	126.3							
5	NUR	eP	00 52 57	0.5	5.2							
		i	53 08.2	1.1	84.0							

cont.

February

T A

SOD eP 00 52 13
i 24.0
KJN eP 00 52 31
i 43.0
KEV eP 00 51 56
H: 00 42 22.2
52.2 N, 172.4 E, 35 km (R)
Rat Islands

5 NUR eP 00 55 36
SOD eP 00 55 02

5 NUR iP 01 16 53.0 0.9 6.6
e 17 02 1.2 61.4
SOD eP 01 16 08
i 17.1
KJN eP 01 16 28
i 35.9 1.3 54.3
KEV e 01 16 05
H: 01 06 14
52.0 N, 173.5 E, 30 km (R)
Rat Islands

5 NUR eP 01 21 52
H: 01 11 18
52.6 N, 171.9 E, 33 km (R)
Near Islands

5 NUR eP 01 32 10
H: 01 21 24.9
51.4 N, 177.3 E, 40 km (R)
Rat Islands

5 NUR iP 02 17 16.2 0.8 14.1
KJN eP 02 16 51
H: 02 06 33.3
51.8 N, 173.8 E, 15 km (R)
Rat Islands

5 NUR iP 02 39 08.0 0.8 14.1
SOD eP 02 38 24
KJN eP 02 38 42
KEV eP 02 38 06
H: 02 28 29.2
52.0 N, 173.1 E, 30 km (R)
Rat Islands

5 NUR iP 02 44 18.3 D 1.0 56.8
SOD iP 02 43 34.2 D
KJN iP 02 43 52.8 D
H: 02 33 39.5
52.0 N, 173.1 E, 30 km (R)
Rat Islands

February

T A

5 NUR eP 03 09 11 0.9 21.3
i 22.0 D 1.1 139.8
SOD eP 03 08 27
i 38.4 D
KJN iP 03 08 45.7 D 0.6 12.6
i 56.7 D 1.0 68.4
KEV eP 03 08 10
H: 02 58 28.5
51.5 N, 174.9 E, 36 km (R)
Rat Islands

5 NUR eP 03 13 30
SOD eP 03 12 45
H: 03 02 46
51.7 N, 176.2 E, 33 km (R)
Rat Islands

5 NUR iP 04 12 22.9 D 0.9 18.0
SOD eP 04 11 39
KJN iP 04 11 57.5 1.0 21.2
H: 04 01 40.8
51.7 N, 175.1 E, 33 km (R)
Rat Islands

5 NUR iP 04 33 10.5
SOD eP 04 32 25
KJN iP 04 32 44.9 0.9 17.2

5 NUR eP 04 48 15
H: 04 37 23.9
51.9 N, 174.2 E, 30 km (R)
Rat Islands

5 NUR eP 04 57 29
KJN eP 04 57 04 1.1 23.2
H: 04 46 45.6
51.4 N, 174.9 E, 33 km (R)
Rat Islands

5 NUR iP 05 15 58.8 U 0.7 37.8
SOD eP 05 15 09
KJN iP 05 15 27.5 U 0.9 16.2
KEV eP 05 15 01
H: 05 05 17.1
52.2 N, 173.1 E, 40 km (R)
Rat Islands

5 NUR eP 05 17 34
SOD eP 05 16 46
KJN eP 05 17 09
H: 05 06 50
51.4 N, 176.8 E, 46 km
Rat Islands

February

				T	A
5	NUR eP	05 21 06		1.0	11.8
	H:	05 10 24.5			
		51.8 N, 173.8 E, 20 km (R)			
		Rat Islands			
5	SOD eP	05 23 22			
	KJN eP	05 23 46			
	H:	05 13 20.3			
		52.6 N, 172.4 E, 30 km (R)			
		Rat Islands			
5	NUR eP	05 24 26			
	SOD eP	05 23 55			
	KJN eP	05 24 15			
5	NUR eP	05 50 51	0.9	14.8	
	SOD eP	05 50 05			
	KJN eP	05 50 18	1.3	30.4	
5	NUR iP	06 10 19.0	0.8	9.9	
	H:	05 59 40.9			
		52.0 N, 173.3 E, 35 km (R)			
		Rat Islands			
5	NUR iP	06 36 05.5 U	1.3	79.9	
	iPcP	37.1			
	SOD iP	06 35 21.1 U			
	iPcP	36 11.5			
	KJN eP	06 35 39			
	ePcP	36 21			
	H:	06 25 23.1			
		51.8 N, 177.0 E, 40 km (R)			
		Rat Islands			
5	NUR eP	06 40 47			
5	NUR iP	06 42 23.5	1.0	25.5	
	i	32.0			
	KJN eP	06 41 59	0.8	8.9	
	H:	06 31 42.4			
		51.8 N, 174.9 E, 25 km (R)			
		Rat Islands			
5	NUR eP	06 46 24			
	SOD eP	06 45 21			
	KJN eP	06 45 55			
	e	48 47			
5	NUR iP	06 50 31.5 D	1.0	201.9	
	ePcP	51 06			
	eS	59 16			
	eSS	07 03 10			

cont.

February

				T	A
	SOD iP	06 49 47.3 D			
	i	54.2			
	iPcP	50 38.8			
	KJN iP	06 50 05.3 D	1.0	103.8	
	KEV eP	06 49 31			
	i	39.1	1.0	37.8	
	H:	06 39 49.6			
		51.8 N, 175.1 E, 25 km (R)			
		Rat Islands			
5	NUR eP	06 59 14			
	KJN eP	06 58 49			
	H:	06 48 31			
		51.6 N, 174.5 E, 35 km (R)			
		Rat Islands			
5	NUR iP	07 18 42.3 D	0.9	19.7	
	SOD eP	07 17 59			
	KJN iP	07 18 17.2 D	0.9	16.2	
	H:	07 07 59.7			
		51.6 N, 175.9 E, 40 km (R)			
		Rat Islands			
5	NUR iP	07 29 55.6 D	1.0	64.7	
	SOD iP	07 29 11.4 D			
	KJN iP	07 29 30.0 D	1.1	39.2	
	H:	07 19 15.0			
		51.7 N, 174.7 E, 40 km (R)			
		Rat Islands			
5	NUR eP	07 39 58			
	SOD eP	07 39 24			
	KJN eP	07 39 33			
	H:	07 29 16.2			
		51.6 N, 175.2 E, 35 km (R)			
		Rat Islands			
5	NUR eP	07 42 15			
	SOD eP	07 41 32			
	KJN eP	07 41 49			
	H:	07 31 32.4			
		51.6 N, 176.1 E, 33 km (R)			
		Rat Islands			
5	NUR eP	07 42 45			
5	NUR iP	08 12 08.0			
	H:	08 01 22.7			
		51.6 N, 174.8 E, 25 km (R)			
		Rat Islands			

February

February

				T	A
5	NUR	eP	08 42 43		
5	NUR	iP	09 02 01.3 U	0.9	62.3
	SOD	iP	09 01 17.1 U		
		iPcP	02 08.1		
	KJN	iP	09 01 36.1 U	0.6	45.5
		iPcP	02 17.9		
	KEV	eP	09 01 01		
	H: 08 51 23.0				
	52.2 N, 175.1 E, 35 km (R)				
	Rat Islands				
5	NUR	eP	09 38 46		
	KJN	eP	09 38 21		
5	NUR	iP	09 42 45.1 U	1.0	940.8
		i	56.5	1.0	382.2
		iPcP	43 18.6		
		e	45 00		
		eS	51 22		
	SOD	eP	09 42 01		
		i	10.2		
		iPcP	52.0		
	KJN	iP	09 42 19.1 U	0.9	323.2
		ePcP	43 03		
	KEV	iP	09 41 43.1 U	0.8	101.2
		i	52.0		
		iPcP	42 42.6		
		ePP	43 56		
		eS	49 24		
		eSS	53 20		
		eLQ	09 55.5		
		eLR	09 58.2		
	H: 09 32 09.3				
	52.3 N, 174.3 E, 41 km (R)				
	Rat Islands				
5	KJN	iP	09 50 04.0	0.9	15.2
5	NUR	eP	09 57 35		
5	NUR	iP	09 58 29.0		
	SOD	eP	09 57 54		
	KJN	eP	09 58 07		
5	NUR	eP	10 01 14		
5	NUR	eP	10 09 30		
	H: 09 58 45.8				
	51.7 N, 173.8 E, 15 km (R)				
	Rat Islands				

				T	A
5	NUR	eP	10 15 40		
	H: 10 05 06.1				
	52.4 N, 172.6 E, 35 km (R)				
	Rat Islands				
5	NUR	iP	10 19 23.0	0.9	23.0
	SOD	eP	10 18 38		
	KJN	eP	10 18 48		
	H: 10 08 43.3				
	52.2 N, 174.5 E, 30 km (R)				
	Rat Islands				
5	NUR	iP	10 24 58.6	0.8	15.5
	KJN	iP	10 24 33.1 D	0.9	12.1
	H: 10 14 19.1				
	52.1 N, 175.1 E, 33 km (R)				
	Rat Islands				
5	NUR	eP	10 48 12		
	H: 10 37 31				
	52.1 N, 176.1 E, 30 km (R)				
	Rat Islands				
5	NUR	iP	11 01 01.5	0.9	34.4
		i	13.0		
	SOD	iP	11 00 17.2		
		e	27		
		ePcP	01 09		
	KJN	iP	11 00 35.6 D	1.0	15.3
	KEV	eP	11 00 00		
	H: 10 50 27.2				
	52.3 N, 172.4 E, 40 km (R)				
	Rat Islands				
5	NUR	eP	11 48 58		
	KJN	eP	11 48 33		
	H: 11 38 08.7				
	50.9 N, 177.3 E, 33 km (R)				
	Rat Islands				
5	NUR	eP	11 50 28		
	SOD	eP	11 49 44		
	KJN	iP	11 50 03.1	0.8	7.1
5	NUR	eP	12 40 14		
	SOD	eP	12 39 30		
	KJN	eP	12 39 49		
	KEV	eP	12 39 14		
	H: 12 29 25.9				
	51.2 N, 177.7 E, 35 km (R)				
	Rat Islands				

February

				T	A
5	NUR	iP	13 06 25.1	1.0	18.0
	SOD	eP	13 05 40		
	H:		12 55 41.8		
			51.7 N, 173.8 E, 25 km (R)		
			Rat Islands		
5	NUR	eP	13 16 31		
	SOD	eP	13 16 05		
	H:		13 05 49.5		
			51.7 N, 173.8 E, 30 km (R)		
			Rat Islands		
5	NUR	eP	13 37 31		
	SOD	eP	13 36 41		
	KJN	iP	13 37 06.0		
	H:		13 26 43.9		
			51.2 N, 175.3 E, 40 km (R)		
			Rat Islands		
5	NUR	iP	13 49 25.0 D	2.0	657.3
		i	35.6		
	SOD	iP	13 48 40.7 D		
	KJN	iP	13 48 59.3 D	1.1	59.4
	KEV	eP	13 48 24	0.7	13.5
	H:		13 38 46.7		
			52.0 N, 174.0 E, 35 km (R)		
			Rat Islands		
5	NUR	iP	14 02 25.9 U	0.9	75.6
	SOD	iP	14 01 41.9 D		
	KJN	iP	14 01 59.9 U	1.0	31.9
	KEV	eP	14 01 24	0.9	10.6
	H:		13 51 48.6		
			52.1 N, 173.3 E, 35 km (R)		
			Rat Islands		
5	NUR	iP	14 19 03.9 D	1.0	86.0
	SOD	iP	14 18 19.6 D		
	KJN	iP	14 18 38.0 D	1.0	36.6
	KEV	eP	14 18 06		
	H:		14 08 22.7		
			51.6 N, 174.4 E, 35 km (R)		
			Rat Islands		
5	NUR	iP	14 39 23.2	1.0	38.0
	SOD	iP	14 38 39.6		
	KJN	eP	14 38 58	1.1	29.0
	H:		14 28 42.2		
			51.8 N, 174.5 E, 30 km (R)		
			Rat Islands		
5	NUR	eP	14 48 57		
		i	49 02.1	0.9	30.2
			cont.		

February

				T	A
	SOD	eP	14 48 13		
	KJN	eP	14 48 29		
	H:		14 38 14.5		
			51.7 N, 174.7 E, 30 km (R)		
			Rat Islands		
5	NUR	iP	15 25 22.9		
	SOD	eP	15 24 39		
	KJN	eP	15 24 57		
	H:		15 14 36.6		
			51.3 N, 176.8 E, 40 km (R)		
			Rat Islands		
5	NUR	eP	15 32 16		
	KJN	eP	15 31 49		
	H:		15 21 31		
			51.5 N, 173.0 E, 33 km (R)		
			Rat Islands		
5	NUR	eP	15 40 44		
	SOD	eP	15 40 03		
	KJN	eP	15 40 17		
	H:		15 30 00.6		
			51.5 N, 175.5 E, 40 km (R)		
			Rat Islands		
5	NUR	eP	16 05 40	1.0	12.0
	H:		15 55 02.4		
			52.2 N, 173.1 E, 40 km (R)		
			Rat Islands		
5	NUR	eP	16 14 49		
	SOD	eP	16 14 05		
	KJN	eP	16 14 24		
	H:		16 04 02.8		
			51.4 N, 176.8 E, 30 km (R)		
			Rat Islands		
5	NUR	eP	16 19 23		
	SOD	eP	16 18 47		
5	NUR	eP	16 50 34		
	SOD	eP	16 49 50		
	KJN	eP	16 50 12		
	H:		16 39 57.0		
			52.1 N, 172.5 E, 30 km (R)		
			Rat Islands		
5	NUR	iP	17 01 30.1 U		
	KJN	eP	17 01 04		
	H:		16 50 49.1		
			51.5 N, 174.1 E, 40 km (R)		
			Rat Islands		

February

				T	A
5	NUR	iP	17 28 10.5	0.7	15.5
			H: 17 17 29.7		
			51.5 N, 173.3 E, 40 km (R)		
			Rat Islands		
5	NUR	iP	18 26 48.0	1.0	26.0
	SOD	eP	18 26 03		
	KJN	eP	18 26 21		
			H: 18 16 07.6		
			51.9 N, 173.7 E, 30 km (R)		
			Rat Islands		
5	NUR	eP	18 32 08		
	SOD	eP	18 31 24		
			H: 18 21 26		
			51.6 N, 175.3 E, 35 km (R)		
			Rat Islands		
5	NUR	iP	18 34 46.0	1.0	40.0
	SOD	eP	18 34 02		
	KJN	iP	18 34 21.1	1.2	35.4
			H: 18 24 02.8		
			51.6 N, 174.0 E, 34 km (R)		
			Rat Islands		
5	NUR	eP	18 51 50		
		e	52 01		
		ePcP	22		
	SOD	eP	18 51 06		
	KJN	iP	18 51 25.2		
		ePcP	52 06		
5	NUR	eP	19 11 21	0.8	34.6
		i	29.0	1.0	122.0
	SOD	eP	19 10 36		
		i	44.4 U		
		i	11 35.0		
	KJN	eP	19 11 00		
		i	02.5 D	1.3	136.7
			H: 19 00 41.9		
			52.0 N, 173.2 E, 27 km (R)		
			Rat Islands		
5	NUR	eP	20 49 56		
	SOD	eP	20 49 13		
	KJN	eP	20 49 33		
			H: 20 39 09.4		
			51.2 N, 176.6 E, 33 km (R)		
			Rat Islands		
5	NUR	iP	20 57 53.0	0.9	95.8
		ePPP	21 02 00		

cont.

February

				T	A
			eS	06 40	
			eSS	10 46	
			eLR	21 18.5	
	SOD	eP	20 57 08		
		i	18.0		
	KJN	iP	20 57 26.2	D 0.9	40.4
	KEV	eP	20 56 52	1.1	34.2
		ePP	59 12		
		ePPP	21 00 24		
		eS	04 44		
			H: 20 47 13.3		
			51.9 N, 174.6 E, 35 km (R)		
			Rat Islands		
5	NUR	iP	21 41 25.0	1.0	16.0
	SOD	eP	21 40 41		
	KJN	eP	21 40 59		
			H: 21 30 39.9		
			51.4 N, 177.1 E, 41 km (R)		
			Rat Islands		
5	NUR	eP	21 54 47	0.9	20.2
	SOD	eP	21 54 03		
	KJN	iP	21 54 22.2	1.0	13.0
			H: 21 43 59.7		
			51.3 N, 176.7 E, 25 km (R)		
			Rat Islands		
5	NUR	iP	21 59 16.8	0.9	37.0
		ePcP	45		
	SOD	iP	21 58 32.8	U	
	KJN	iP	21 58 51.3	U 0.7	16.0
		ePcP	59 30		
	KEV	eP	21 58 16	0.8	10.3
			H: 21 48 25.8		
			51.1 N, 178.3 E, 25 km (R)		
			Rat Islands		
5	NUR	iP	22 26 45.5	U 1.0	70.0
	SOD	eP	22 26 01		
	KJN	iP	22 26 19.6	U 1.1	66.7
	KEV	eP	22 25 44	0.7	13.2
		ePcP	26 35		
			H: 22 15 59.5		
			51.5 N, 176.7 E, 25 km (R)		
			Rat Islands		
5	NUR	eP	23 00 28		
	SOD	eP	22 59 43		
	KJN	eP	23 00 00		
			H: 22 49 53		
			52.3 N, 171.2 E, 33 km (R)		
			Near Islands		

February

February

			T	A	
5	NUR	eP	23 24 59		
	SOD	eP	23 24 14		
	KJN	eP	23 24 33		
	H: 23 14 14				
	51.3 N, 173.0 E, 33 km (R)				
	Rat Islands				
6	NUR	eP	00 19 00		
	SOD	eP	00 18 16		
	KJN	eP	00 18 35		
	H: 00 08 17.0				
	51.8 N, 174.8 E, 25 km (R)				
	Rat Islands				
6	NUR	eP	01 26 14		
	i		22.3	1.0	36.0
	SOD	eP	01 25 29		
	i		38.1		
	KJN	eP	01 25 48		
	KEV	eP	01 25 17		
	e		21		
	H: 01 15 39.9				
	52.6 N, 171.2 E, 20 km (R)				
	Rat Islands				
6	NUR	iP	01 51 21.4 D	1.1	630.7
	ePP		53 38		
	ePPP		55 12		
	iS		02 00 10.8		
	eScS		01 20		
	eP'P'		19 45		
	eLQ		02 09.0		
	SOD	iP	01 50 36.0 D		
	ePP		52 51		
	ePPP		54 16		
	eS		58 47		
	eSP		59 02		
	eP'P'		02 20 06		
	KJN	iP	01 50 57.3 D		
	ePcP		51 34		
	ePP		53 21		
	iS		59 26.3		
	ePS		41		
	e		02 01 21		
	eP'P'		19 58		
	KEV	iP	01 50 18.2 D	1.2	613.2
	e		52		
	ePP		52 28		
	ePPP		53 40		
	eS		58 12		
	e		59 08		
	eSS		02 02 05		

cont.

				T	A
		eP'P'	20 18		
		eLQ	02 04.3		
		eLR	02 07		
	H: 01 40 33.2				
	53.2 N, 161.9 W, 33 km				
	South of Alaska				
6	NUR	eP	01 57 53		
	SOD	eP	01 57 07		
6	NUR	eP	02 12 49	1.0	18.0
6	NUR	eP	02 28 14		
	KJN	eP	02 27 56		
6	NUR	iP	03 33 10.0	0.9	16.8
	SOD	eP	03 32 26		
	KJN	eP	03 32 44		
	H: 03 22 27				
	51.3 N, 173.9 E, 30 km (R)				
	Rat Islands				
6	NUR	eP	03 50 00		
	i		06.4	1.0	32.0
	SOD	eP	03 49 15		
	KJN	iP	03 49 34.9		
	H: 03 39 15.5				
	51.5 N, 175.3 E, 31 km (R)				
	Rat Islands				
6	NUR	eP	03 53 19		
	SOD	eP	03 54 11		
	KJN	eP	03 53 48		
	H: 03 47 54.1				
	35.1 N, 26.9 E, 50 km				
	Crete				
6	NUR	iP	04 13 32.2 U	1.0	100.5
	eS		22 14		
	eScS		23 24		
	SOD	iP	04 12 48.0 U		
	iPcP		13 33.6		
	eS		20 58		
	KJN	iP	04 13 07.0 U	1.0	69.6
	eS		21 39		
	e		23 06		
	eP'P'		42 18		
	KEV	eP	04 12 31	1.1	48.8
	i		34.0		
	iPcP		13 31.0		
	ePP		14 51		
	ePPP		16 06		

cont.

February

T A

eS 20 18
eScS 22 15
eSS 24 01
eLR 04 30.0
H: 04 02 53
52.1 N, 175.7 E, 35 km (R)
Rat Islands

6 NUR eP 05 01 39
i 49.0 1.0 18.5
SOD eP 05 00 56
i 01 05.6
KJN iP 05 01 14.4 0.9 9.8
i 24.8

H: 04 50 51.8
51.1 N, 177.4 E, 35 km (R)
Rat Islands

6 NUR iP 05 42 57.8
SOD eP 05 42 13
KJN eP 05 42 31
H: 05 32 12.2
51.5 N, 175.8 E, 30 km (R)
Rat Islands

6 NUR iP 06 34 17.6 D 0.9 58.5
i 27.4 0.8 89.7
SOD eP 06 33 33
i 43.2
KJN iP 06 33 51.7 D 1.0 22.0
i 34 02.4
KEV eP 06 33 16 0.8 13.2
i 27.2

H: 06 23 39.0
52.0 N, 173.2 E, 30 km (R)
Rat Islands

6 NUR iP 06 38 55.2 D 1.0 49.2
SOD iP 06 38 11.1 D
KJN iP 06 38 30.3 D 1.0 27.8

H: 06 28 06.3
51.2 N, 177.6 E, 25 km (R)
Rat Islands

6 SOD eP 06 58 26
H: 06 48 30
51.8 N, 178.1 E, 40 km (R)
Rat Islands

6 NUR eP 07 02 39
SOD eP 07 01 57
H: 06 52 03
52.3 N, 173.2 E, 33 km (R)
Rat Islands

February

T A

6 NUR iP 07 25 22.5 1.0 143.5
i 31.4 1.0 94.3
SOD iP 07 24 38.3 U
i 47.0
i 51.3
KJN iP 07 24 57.4 U 1.1 71.0
i 25 06.0
KEV iP 07 24 21.8 0.9 27.5
i 31.0

H: 07 14 45.1
52.1 N, 173.0 E, 35 km (R)
Rat Islands

6 NUR iP 07 37 59.0 D
SOD eP 07 37 15
KJN eP 07 37 33 1.0 12.8

H: 07 27 24.1
52.4 N, 172.4 E, 33 km (R)
Rat Islands

6 NUR eP 08 08 02
SOD eP 08 07 18
KJN iP 08 07 36.7
KEV eP 08 07 03

H: 07 57 22
51.9 N, 172.9 E, 20 km (R)
Rat Islands

6 NUR iP 08 57 32.2 U 1.0 86.1
i 40.0
i 58.3

eS 09 06 08
eSS 10 32
SOD iP 08 56 48
e 57 07
KJN iP 08 57 07.0 U 1.0 33.6
KEV eP 08 56 30

eS 09 04 19
e(SS) 08 26
H: 08 46 51.2
51.9 N, 174.0 E, 30 km (R)
Rat Islands

6 NUR iP 09 05 19.8 1.0 41.0
e 31

SOD iP 09 04 35.0 U
ePcP 05 23

KJN iP 09 04 53.7 U
ePcP 05 37

KEV eP 09 04 17

H: 08 54 38.9
52.1 N, 175.4 E, 30 km (R)
Rat Islands

February

February

		T	A			T	A
6	NUR eP 10 42 41 H: 10 32 01 51.9 N, 173.2 E, 33 km (R) Rat Islands			6	NUR eP 14 09 51 SOD eP 14 09 07 KJN eP 14 09 27 H: 13 59 03 51.5 N, 175.9 E, 30 km (R) Rat Islands		
6	NUR eP 11 42 58 SOD eP 11 42 15 KJN iP 11 42 33.5 0.5 5.5 H: 11 32 15.8 51.5 N, 174.9 E, 33 km (R) Rat Islands			6	NUR iP 14 21 50.3 D 1.1 78.1 SOD iP 14 21 06.1 D KJN iP 14 21 24.6 D 1.2 55.7 KEV eP 14 20 53 H: 14 11 10.1 51.7 N, 174.2 E, 38 km (R) Rat Islands		
6	SOD eP 12 24 14 KJN eP 12 24 17 1.1 11.4 KEV eP 12 24 14			6	NUR iP 14 34 18.7 D 0.7 11.9 SOD eP 14 33 34 KJN eP 14 33 53 H: 14 23 36.1 51.7 N, 173.8 E, 34 km (R) Rat Islands		
6	NUR iP 12 33 08.0 D 1.0 98.4 SOD eP 12 32 23 ePcP 33 13 KJN iP 12 32 42.7 D 1.0 46.4 ePcP 33 25 KEV eP 12 32 07 H: 12 22 26.2 51.8 N, 175.3 E, 35 km (R) Rat Islands			6	SOD eP 14 44 28 KJN eP 14 44 49 0.9 6.9 H: 14 34 32 53.9 N, 160.9 W, 35 km (R) South of Alaska		
6	NUR iP 12 33 20.8 U 1.1 53.7 ePcP 52 SOD iP 12 32 34.6 U iPcP 33 24.8 KJN eP 12 32 54 ePcP 33 36			6	SOD eP 15 17 36		
6	NUR eP 13 02 21 SOD eP 13 01 37 KJN eP 13 01 52 H: 12 51 38.1 51.8 N, 176.4 E, 33 km (R) Rat Islands			6	NUR eP 15 42 22 SOD eP 15 41 48 KJN eP 15 41 57 H: 15 31 40.3 51.6 N, 174.4 E, 40 km (R) Rat Islands		
6	NUR eP 13 25 58 0.9 15.5 SOD eP 13 25 15 KJN eP 13 25 32 H: 13 15 14.7 51.7 N, 175.2 E, 25 km (R) Rat Islands			6	NUR eP 16 41 52 0.9 12.0 KJN eP 16 41 28 H: 16 31 05.1 51.3 N, 176.7 E, 33 km (R) Rat Islands		
6	NUR eP 13 45 28 1.0 12.3 SOD eP 13 44 44 KJN iP 13 45 02.5 1.0 17.4 H: 13 34 42.9 51.6 N, 176.5 E, 33 km (R) Rat Islands			6	SOD eP 16 59 44		
				6	NUR iP 17 01 15.3 i 17.8 0.9 173.7 ePPP 05 22 eS 09 58 e 10 06 eP'P' 29 44 eLQ 17 19.2		

cont.

February

February

			T	A				T	A	
SOD	eP	17 00 30			6	NUR	eP	19 30 38		
	i	32.8				SOD	eP	19 29 50		
	iPcP	01 19.2				KJN	eP	19 30 13		
	ePP	02 48				H: 19 19 52				
	eS	08 42				51.3 N, 176.5 E, 25 km (R)				
	eScS	10 20				Rat Islands				
	eP'P'	30 05								
KJN	eP	17 00 52	1.0	85.8	6	NUR	eP	19 59 00		
	iS	09 23.4				KJN	eP	19 58 36		
	ePS	36				H: 19 48 12				
	ePPS	50				51.4 N, 177.0 E, 20 km (R)				
	eScS	10 41				Rat Islands				
	iP'P'	29 51.5								
KEV	iP	17 00 13.1	1.1	285.6	6	NUR	eP	20 54 47		
	i	50.2				KJN	eP	20 54 12		
	i	01 20.4								
	ePP	02 07			6	NUR	iP	21 13 33.4 U	0.8	72.0
	e	04 20				SOD	eP	21 12 49		
	eS	08 06				KJN	iP	21 13 07.6 U	1.0	26.7
	e	10 20				H: 21 02 59.6				
	eSS	11 55				52.8 N, 172.0 E, 20 km (R)				
	eP'P'	30 14				Rat Islands				
	eLQ	17 14.3								
	eLR	17 17.5			6	NUR	eP	22 30 54		
H: 16 50 29						KJN	eP	22 30 29		
53.3 N, 161.8 W, 33 km (R)						H: 22 20 12.2				
South of Alaska						51.8 N, 174.6 E, 33 km (R)				
6	NUR	eP 17 06 06				Rat Islands				
	H: 16 55 31.4				6	NUR	iP	22 36 55.0	1.1	31.7
	52.2 N, 171.8 E, 33 km (R)					SOD	eP	22 36 11		
	Rat Islands					KJN	iP	22 36 30.6 U	1.0	19.7
6	NUR	eP 18 18 11	1.0	20.5		H: 22 26 10.5				
	SOD	eP 18 17 28				51.9 N, 178.5 E, 33 km (R)				
	KJN	iP 18 17 46.0 D	1.3	42.4		Rat Islands				
	H: 18 07 24.7				6	NUR	eP	22 45 29		
	51.3 N, 176.5 E, 33 km (R)					KJN	eP	22 45 04		
	Rat Islands					H: 22 34 44.8				
6	NUR	iP 18 21 13.6	1.1	97.6		51.3 N, 174.5 E, 35 km (R)				
	SOD	iP 18 20 29.7 U				Rat Islands				
	KJN	iP 18 20 48.5 U	1.3	116.6						
	KEV	iP 18 20 13.0 D	1.3	75.0	6	NUR	iP	23 34 25.8 D	1.0	32.8
	H: 18 10 28.8					e	39			
	51.5 N, 176.5 E, 35 km (R)					SOD	iP	23 33 41.4 D		
	Rat Islands					e	53			
6	NUR	eP 18 53 17	1.0	36.9		ePcP	34 29			
	SOD	iP 18 52 32.4 U				KJN	iP	23 34 00.6	1.0	29.0
	KJN	iP 18 52 51.5	1.3	36.0		KEV	eP	23 33 32		
	H: 18 42 29.2					H: 23 23 40.4				
	51.3 N, 176.2 E, 25 km (R)					51.5 N, 176.5 E, 33 km (R)				
	Rat Islands					Rat Islands				

February							February						
					T	A					T	A	
6	NUR	iP	23 58	56.2 U	1.0	36.9							
		i	59	05.7	0.9	32.7							
	SOD	eP	23 58	12									
	KJN	iP	23 58	30.7	1.2	24.4							
	H: 23 48 16.9												
	51.9 N, 173.4 E, 31 km (R)												
	Rat Islands												
7	NUR	iP	01 10	48.6	1.1	122.0							
	SOD	iP	01 10	04.2 D									
	KJN	iP	01 10	22.8	1.2	87.0							
		ePP	12 33										
	KEV	iP	01 09	47.4	1.0	41.2							
	H: 01 00 12.5												
	52.2 N, 172.1 E, 30 km (R)												
	Rat Islands												
7	NUR	iP	02 27	51.2 D	1.0	299.3							
		eS	36 38										
		eSS	41 25										
		eP'P'	56 31										
	SOD	iP	02 27	07.4									
		i		22.0									
		iPcP		51.3									
		eP'P'	56 44										
	KJN	iP	02 27	26.1 D	1.1	117.9							
		eP'P'	56 37										
	KEV	eP	02 26	51									
		i	27	05.8									
		iPcP		47.0									
		eS	34 45										
		eSS	38 36										
	H: 02 17 09.2												
	51.4 N, 173.4 E, 40 km (R)												
	Rat Islands												
7	NUR	eP	04 20	13									
	SOD	eP	04 19	28									
	KJN	eP	04 19	50									
	H: 04 09 29												
	53.5 N, 161.5 W, 30 km (R)												
	South of Alaska												
7	NUR	iP	04 22	01.6 U	1.1	68.3							
		i		05.1	0.9	39.6							
	SOD	iP	04 21	17.4 U									
		ePcP	22 06										
	KJN	iP	04 21	35.9 U	1.0	65.0							
		iPcP	22 17.6										
		ePP	23 50										
	cont.												
	KEV	eP	04 21	02	1.1	36.3							
	H: 04 11 19.3												
	51.9 N, 175.3 E, 25 km (R)												
	Rat Islands												
7	NUR	eP	04 35	13	1.0	20.5							
	SOD	eP	04 34	31									
	KJN	eP	04 34	47	1.3	31.8							
	H: 04 24 29												
	51.8 N, 176.3 E, 33 km (R)												
	Rat Islands												
7	NUR	iP	04 46	32.2 U	1.0	34.9							
	SOD	eP	04 45	48									
	KJN	iP	04 46	07.1 U	1.2	31.3							
	H: 04 35 48.0												
	51.5 N, 175.0 E, 30 km (R)												
	Rat Islands												
7	NUR	eP	05 42	44									
	KJN	eP	05 42	20									
	H: 05 31 55												
	51.1 N, 175.6 E, 33 km (R)												
	Rat Islands												
7	NUR	iP	06 09	37.8 D	1.0	61.5							
	SOD	eP	06 08	53									
	KJN	iP	06 09	12.1	1.2	53.9							
	H: 05 58 54.3												
	51.7 N, 174.9 E, 25 km (R)												
	Rat Islands												
7	NUR	eP	07 55	55	1.0	18.5							
	H: 07 45 17												
	52.2 N, 174.9 E, 33 km (R)												
	Rat Islands												
7	NUR	iP	08 50	46.4	1.0	30.8							
	SOD	eP	08 50	02									
	KJN	iP	08 50	20.9	1.1	21.3							
	KEV	eP	08 49	50									
	H: 08 40 05.3												
	51.8 N, 174.7 E, 35 km (R)												
	Rat Islands												
7	NUR	iP	09 36	40.7 D	0.9	37.8							
	SOD	eP	09 35	55									
		ePcP	36 44										
	KJN	eP	09 36	14									
		iPcP		55.6									
	cont.												

February

February

			T	A
	KEV eP	09 35 43		
	H:	09 25 51.1		
		51.4 N, 179.1 E, 30 km (R)		
		Rat Islands		
7	NUR iP	09 55 05.7	0.9	20.6
	SOD eP	09 54 22		
	KJN eP	09 54 40	1.1	29.2
	H:	09 44 16.9		
		51.4 N, 176.8 E, 15 km (R)		
		Rat Islands		
7	NUR iP	11 33 50.7	1.1	36.6
	SOD eP	11 33 05		
	KJN eP	11 33 24	1.1	20.9
	H:	11 23 14.8		
		52.2 N, 172.4 E, 35 km (R)		
		Rat Islands		
7	NUR iP	11 41 31.2	0.9	32.7
	SOD eP	11 40 46		
	KJN iP	11 41 08.0	0.9	15.4
	H:	11 30 40.8		
		53.3 N, 161.9 W, 10 km (R)		
		South of Alaska		
7	NUR iP	11 56 40.6	1.0	20.5
	SOD iP	11 55 56.4		
	i	56 07.2		
	KJN iP	11 56 14.7 U	1.0	17.1
	H:	11 45 52.8		
		51.2 N, 177.3 E, 33 km (R)		
		Rat Islands		
7	NUR iP	12 31 52.4	0.9	68.8
	i	32 07.4	0.9	43.0
	SOD iP	12 31 07.5 U		
	KJN iP	12 31 26.6 U	1.1	43.1
	H:	12 21 21.1		
		53.0 N, 171.7 E, 25 km (R)		
		Rat Islands		
7	NUR iP	13 05 41.2	1.0	30.8
	SOD eP	13 04 57		
	KJN eP	13 05 16		
	H:	12 55 07.8		
		52.6 N, 171.4, 25 km (R)		
		Rat Islands		
7	NUR eP	13 31 33		
	SOD iP	13 30 49.3 U		

cont.

			T	A
	e	31 03		
	ePcP	36		
	KJN iP	13 31 08.0 U		
	H:	13 20 46.3		
		51.1 N, 175.8 E, 40 km (R)		
		Rat Islands		
7	NUR iP	14 57 53.1 D	0.8	41.2
	SOD eP	14 57 08		
	KJN iP	14 57 27.6	0.7	12.1
	H:	14 47 11.6		
		51.7 N, 174.6 E, 33 km (R)		
		Near Islands		
7	NUR iP	16 14 40.0 D		
	KJN eP	16 14 16		
	H:	16 03 52.3		
		51.3 N, 179.0 E, 40 km (R)		
		Rat Islands		
7	NUR iP	17 23 45.2 D	1.0	94.3
	i	54.0		
	SOD eP	17 23 01		
	KJN iP	17 23 19.8 D	1.2	67.6
	ePcP	24 03		
	KEV eP	17 22 40	1.0	30.6
	e	53		
	H:	17 13 08.2		
		52.2 N, 173.1 E, 35 km (R)		
		Rat Islands		
7	NUR iP	19 39 30.3		
	SOD eP	19 38 46		
	KJN eP	19 39 11		
	H:	19 29 23.9		
		55.2 N, 165.2 E, 20 km (R)		
		Komandorsky Islands		
7	NUR iP	20 21 21.7		
	SOD eP	20 20 40		
	H:	20 10 33.7		
		51.2 N, 178.2 E, 40 km (R)		
		Rat Islands		
8	SOD eP	03 46 31		
	H:	03 37 34.8		
		63.4 N, 151.7 W, 31 km		
		Central Alaska		
8	SOD eP	05 17 41		
	H:	05 07 48.5		
		52.3 N, 173.4 E, 40 km (R)		
		Rat Islands		

February

				T	A
8	SOD	eP	06 43 05		
		ipP	32.0		
	KJN	eP	06 43 12		
	H:		06 30 49.0		
			18.6 N, 145.6 E, 116 km		
			Mariana Islands		
8	NUR	iP	07 33 50.3 D	1.0	82.0
		i	34 01.5		
	SOD	iP	07 33 06.2 D		
		i	16.9		
	KJN	iP	07 33 24.9 D	1.1	51.7
	KEV	eP	07 32 43		
	H:		07 23 08.8		
			51.8 N, 174.6 E, 33 km (R)		
			Rat Islands		
8	SOD	eP	09 47 51		
	H:		09 37 51		
			52.2 N, 177.6 E, 25 km (R)		
			Rat Islands		
8	NUR	iP	10 20 02.0 D	1.0	60.0
		i	07.8		
	SOD	iP	10 19 18.0 D		
	KJN	iP	10 19 36.8 D	1.0	33.3
	H:		10 09 18.4		
			51.7 N, 175.0 E, 25 km (R)		
			Rat Islands		
8	NUR	iP	13 45 11.0 U	0.9	18.5
	SOD	iP	13 44 27.0 D		
	KJN	iP	13 44 45.6 U	1.0	18.9
	H:		13 34 23.3		
			51.4 N, 176.6 E, 20 km (R)		
			Rat Islands		
8	NUR	eP	14 10 55		
	SOD	eP	14 11 13		
	KJN	eP	14 10 53		
		ePP	12 26		
	H:		14 03 52.8		
			36.4 N, 73.0 E, 220 km (R)		
			Afghanistan-USSR border		
8	NUR	iP	15 51 55.2 U	0.8	37.4
		e	52 08		
	SOD	iP	15 51 10.4 U		
	KJN	iP	15 51 28.5	1.0	22.2
	KEV	eP	15 50 50		
	H:		15 41 19.7		
			52.5 N, 172.0 E, 25 km (R)		
			Rat Islands		

February

				T	A
8	NUR	iP	15 56 57.8 U	1.0	130.0
		i	57 09.0		
		i	58 21.0		
	ePPP		16 00 45		
	eS		05 10		
	e		06 56		
	eLR		16 15.0		
	SOD	iP	15 56 12.3 D		
		i	23.0		
		i	37.1		
	KJN	iP	15 56 30.7 U	1.0	61.1
	KEV	iP	15 55 55.2	0.7	20.9
		i	56 05.4		
	ePPP		59 03		
	eS		16 03 11		
	e		04 50		
	e		05 54		
	H:		15 46 49.9		
			55.1 N, 165.7 E, 40 km (R)		
			Komandorsky Islands		
8	NUR	iP	17 47 33.3 U	0.8	51.8
		i	48 14.2 U		
		i	24.0		
	SOD	iP	17 46 48.2 D		
		i	47 27.3 U		
	KJN	iP	17 47 06.5 U	0.8	18.3
	KEV	iP	17 46 31.1	0.7	12.3
	H:		17 37 24.6		
			55.2 N, 165.3 E, 30 km (R)		
			Komandorsky Islands		
8	NUR	eP	18 14 19		
	H:		18 03 37.1		
			51.8 N, 174.3 E, 33 km (R)		
			Rat Islands		
8	SOD	eP	20 00 06		
9	NUR	iP	04 45 41.4 U	0.8	18.7
	SOD	eP	04 44 58		
	KJN	iP	04 45 16.3 U	0.9	11.1
	H:		04 34 55.1		
			51.6 N, 179.0 E, 40 km (R)		
			Rat Islands		
9	NUR	iPKP	06 00 52.9	0.8	23.0
	SOD	ePKP	06 00 42		
	KJN	ePKP	06 00 45	0.9	20.3
	H:		05 42 06.8		
			18.8 S, 169.2 E, 223 km		
			New Hebrides Islands		

February						February														
			T	A				T	A											
9	NUR	iP	08 25	33.7						9	NUR	iP	23 37	57.2						
	SOD	eP	08 25	08							KJN	eP	23 38	34						
	KJN	eP	08 25	15								H:	23 32	58.9						
			H:	08 13	37								38.0	N,	20.3	E,	44	km		
				28.6	N,	142.4	E,	33	km	(R)										
				Bonin Islands																
9	NUR	eP	10 06	42						10	NUR	iP	00 48	43.0	1.0				38.0	
			H:	09 56	05						SOD	eP	00 47	58						
				52.1	N,	172.3	E,	33	km	(R)		KJN	eP	00 48	17	1.2			46.5	
				Rat Islands									H:	00 38	06.1					
													52.4	N,	173.5	E,	35	km	(R)	
				Rat Islands																
9	NUR	iP	17 47	47.0	D	1.0		332.0		10	NUR	iP	00 50	59.8						
		eS		56	14							H:	00 40	20.0						
		eScS		57	32								51.9	N,	172.8	E,	25	km	(R)	
		eSS	18 00	48									Rat Islands							
		e		01	14															
	SOD	iP	17 47	02.2	D					10	NUR	iPKP	01 44	14.0						
	KJN	iP	17 47	21.1	D	1.0		111.0			KJN	iPKP	01 44	06.9	D	0.8			12.5	
	KEV	iP	17 46	44.8	D	1.1		63.4				H:	01 25	46.5						
		i		54.0									12.2	S,	167.2	E,	268	km		
			H:	17 37	15.9								Santa Cruz Islands							
				52.8	N,	171.9	E,	41	km	(R)										
				Rat Islands																
9	NUR	iP	18 29	05.0	U	0.9		20.2		10	NUR	iP	02 19	09.4	1.0				68.0	
	SOD	eP	18 28	25							SOD	eP	02 18	24						
	KJN	eP	18 28	39							KJN	eP	02 18	42						
			H:	18 18	21.2							i		44.7	1.1				47.6	
				51.8	N,	173.9	E,	10	km	(R)		KEV	eP	02 18	06					
				Rat Islands									H:	02 08	32.9					
													52.2	N,	172.9	E,	33	km	(R)	
				Rat Islands																
9	SOD	eP	19 07	34						10	NUR	eP	04 26	35						
9	NUR	iP	20 43	44.4		0.5		13.2			KJN	eP	04 26	31	0.9				14.1	
	SOD	eP	20 44	50								epP		27	12					
	KJN	eP	20 44	20		1.0		14.4				H:	04 13	46.4						
		e		46									6.0	S,	106.1	E,	152	km		
	KEV	eP	20 45	09									Java							
			H:	20 38	45.3															
				37.7	N,	20.3	E,	51	km											
				Ionian Sea																
9	NUR	iP	23 22	04.3	U	0.7		24.5		10	NUR	ePKP	06 56	45						
	SOD	eP	23 21	19							SOD	ePKP	06 56	34						
	KJN	eP	23 21	37							KJN	iPKP	06 56	48.0	U	1.1			31.3	
		i		39.8		1.2		41.5				H:	06 37	58.0						
	KEV	eP	23 21	03									14.7	S,	167.2	E,	156	km		
			H:	23 11	26.7								New Hebrides Islands							
				52.2	N,	173.3	E,	33	km	(R)										
				Rat Islands																
										10	NUR	iP	08 22	45.0	D	0.9			15.8	
												i		54.6	1.0			34.0		
											SOD	eP	08 22	00						

cont.

February						February						
					T	A					T	A
12	NUR	iP	01 05 44.3 U	0.8		223.5	12	NUR	eP	16 43 41	1.0	28.7
	SOD	iP	01 04 59.8 U					KJN	eP	16 43 16	1.0	20.5
		iPcP	05 52.5					H:		16 32 57.0		
	KJN	iP	01 05 18.6 U	1.0		91.2				51.7 N, 174.7 E, 25 km (R)		
	KEV	iP	01 04 42.5	0.9		46.8				Rat Islands		
		e	05 35									
			H: 00 55 06.2									
			52.2 N, 172.8 E, 25 km (R)									
			Rat Islands									
12	NUR	iP	01 14 02.2 D	0.9		84.5	12	NUR	iP	18 52 25.8	1.0	22.6
	SOD	iP	01 13 18.1 D							H: 18 41 42.7		
		iPcP	14 08.7							51.5 N, 173.2 E, 30 km (R)		
	KJN	iP	01 13 37.1 D	0.8		39.9				Rat Islands		
		ePcP	14 19									
	KEV	eP	01 13 01									
			H: 01 03 18.0									
			51.3 N, 176.2 E, 35 km (R)									
			Rat Islands									
12	NUR	iP	01 28 59.8	0.9		21.1	12	NUR	eP	18 55 36	0.8	14.7
	SOD	eP	01 28 14							H: 18 44 53.0		
			H: 01 18 21.5							51.2 N, 173.1 E, 33 km (R)		
			52.0 N, 173.0 E, 33 km (R)							Rat Islands		
			Rat Islands									
12	NUR	iP	01 28 59.8	0.9		21.1	12	NUR	iP	19 26 14.8 U	0.7	15.8
	SOD	eP	01 28 14					SOD	eP	19 26 03		
			H: 01 18 21.5					KJN	iP	19 26 04.2 D	0.5	22.3
			52.0 N, 173.0 E, 33 km (R)							H: 19 13 35.8		
			Rat Islands							9.7 N, 126.2 E, 81 km		
										Mindanao, Philippine Is.		
12	NUR	iP	01 46 31.2 U	0.9		35.2	12	NUR	eP	19 28 01		
		ePcP	47 04					KJN	iP	19 27 51.0 D	1.0	17.1
	SOD	eP	01 45 47									
	KJN	iP	01 46 05.9	1.0		17.1	12	NUR	eP	22 02 13	0.9	10.1
	KEV	eP	01 45 32					SOD	eP	22 01 31		
			H: 01 35 53.6					KJN	eP	22 01 58		
			52.1 N, 172.8 E, 33 km (R)							H: 21 51 34.6		
			Rat Islands							52.2 N, 171.6 E, 30 km (R)		
										Rat Islands		
12	NUR	eP	05 28 02				12	NUR	iP	23 29 43.3 D	1.0	26.0
		i	12.0	0.9		17.6		KJN	eP	23 29 17		
			H: 05 17 23.0							H: 23 19 02.8		
			51.9 N, 172.9 E, 33 km (R)							52.2 N, 174.8 E, 35 km (R)		
			Rat Islands							Rat Islands		
12	NUR	eP	12 22 33	1.1		32.4	13	NUR	eP	01 02 33		
			H: 12 11 58.0					KJN	eP	01 02 54		
			52.2 N, 171.3 E, 35 km (R)							H: 00 57 02		
			Rat Islands							38.4 N, 45.7 E, 33 km (R)		
										Northwest Iran-USSR border		
12	NUR	eP	15 10 56				13	SOD	eP	10 08 39		
	SOD	eP	15 10 31									
	KJN	iP	15 10 38.4				13	SOD	eP	15 30 08		
			H: 15 00 05					KJN	iP	15 30 05.0 U	0.8	10.8
			31.4 N, 138.0 E, 426 km							H: 15 16 28.8		
			South of Honshu, Japan							6.9 S, 129.6 E, 128 km		
										Banda Sea		

February						February					
				T	A					T	A
13	NUR	iP	18 19 20.0	0.8	20.2	14	SOD	eP	17 22 49		
	KJN	eP	18 18 55			14	NUR	iP	17 59 07.0	1.3	112.5
			H: 18 08 41.6					eLQ	18 02.5		
			52.0 N, 173.2 E, 33 km (R)				SOD	eP	17 57 55		
			Rat Islands				KJN	eP	17 58 33		
13	NUR	eP	18 27 28	1.0	12.0			i	34.5		
	SOD	eP	18 26 44				KEV	eP	17 57 32		
		i	47.8					e	59 11		
	KJN	eP	18 27 04						H: 17 55 42.4		
	KEV	eP	18 26 22						72.8 N, 5.4 E, 19 km (R)		
			H: 18 16 39.3						Norwegian Sea		
			51.3 N, 178.0 E, 27 km (R)			14	NUR	iP	19 40 39.7 U	1.1	171.4
			Rat Islands					i	50.0		
13	NUR	eP	23 03 11	1.1	21.4			eS	43 10		
	SOD	eP	23 02 58					eLQ	19 44.0		
	KJN	iP	23 02 58.7 U	0.6	7.9		SOD	iP	19 39 28.0 U		
		i	03 08.0					e(S)	41 25		
	KEV	iP	23 02 54.0	0.6	10.2			i	45 27.3		
			H: 22 51 22.3				KJN	iP	19 40 05.8	0.9	678.2
			19.2 N, 121.4 E, 33 km (R)					i	07.3		
			Philippine Islands					iS	42 04.6		
14	NUR	iP	09 14 38.0	0.7	10.3			e	54		
	SOD	eP	09 14 15					iPcP	46 02.6	1.0	35.5
	KJN	eP	09 14 22	0.7	7.1			e	47 02		
14	NUR	iP	10 48 44.4	0.9	35.3		KEV	iP	19 39 04.5	0.9	43.7
		i	54.0					eS	40 25		
	SOD	iP	10 47 59.6					i	38.9		
	KJN	iP	10 48 18.7 D	1.0	21.1				H: 19 37 17.8		
			H: 10 38 07.3						73.0 N, 6.5 E, 33 km (R)		
			52.3 N, 172.6 E, 30 km (R)						Greenland Sea		
			Rat Islands			14	NUR	iP	21 28 10.5 U	1.0	42.0
14	NUR	eP	15 52 36	0.7	6.5		SOD	eP	21 27 26		
14	NUR	eP	16 07 02				KJN	eP	21 27 45	1.0	17.8
	SOD	eP	16 06 16				KEV	eP	21 27 09		
	KJN	eP	16 06 37						H: 21 17 34.4		
			H: 15 56 18.0						52.4 N, 173.9 E, 39 km (R)		
			51.7 N, 176.5 E, 30 km (R)						Rat Islands		
			Rat Islands			15	NUR	iP	01 35 56.0	1.0	40.0
14	NUR	iP	17 11 25.0 U	0.9	30.2			eS	44 54		
	SOD	iP	17 10 39.3 U					ePS	45 22		
	KJN	eP	17 10 58					e	47 32		
			H: 17 01 13.9					eSS	49 06		
			55.1 N, 165.6 E, 20 km (R)					eLR	01 57.0		
			Komandorsky Islands				SOD	eP	01 35 12		
								eP'P'	02 04 38		

cont.

February				T	A	February				T	A	
	KJN	eP	01 35 31				ePS	08 49				
		i	32.6				eSS	13 36				
	KEV	iP	01 34 56.0				eLQ	11 21				
		eS	43 14			SOD	iP	10 56 20.6 U				
	H:	01 25 08.8					i	45.1				
		51.4 N, 179.4 E, 42 km (R)					eS	11 07 06				
		Rat Islands				KJN	iP	10 56 20.4 U	1.1		333.6	
15	NUR	iP	05 12 04.0 U	1.2	65.6		i	30.6				
		i	13.5 D				e	43				
	SOD	iP	05 11 19.5 U				e	58 47				
		i	29.0 D				eSKS	11 06 41				
	KJN	iP	05 11 38.3 U	1.4	75.3		eS	07 04				
		i	48.3 D			KEV	iP	10 56 17.0	1.4		172.2	
	KEV	eP	05 11 02	1.0	22.0		e	44				
	H:	05 01 27.2					i	57 17.4				
		52.2 N, 172.7 E, 33 km (R)					e	59 24				
		Rat Islands					H:	10 43 19.8				
15	NUR	iP	06 15 34.6 U	0.9	29.6			3.0 N, 125.9 E, 33 km (R)				
		i	45.4					Talaud Islands				
	SOD	iP	06 14 50.2 U			15	NUR	eP	11 33 01			
	KJN	iP	06 15 08.9	1.0	19.4		SOD	eP	11 32 14			
	KEV	eP	06 14 38				H:	11 22 35				
	H:	06 04 57.5						56.7 N, 152.4 W, 33 km (R)				
		52.3 N, 172.6 E, 26 km (R)						Kodiak Island region				
		Rat Islands				15	NUR	iP	12 41 10.5	0.8	21.6	
15	NUR	eP	06 53 01	1.0	20.0			i	48.3			
	SOD	iP	06 52 15.8					e	45 44			
	KJN	eP	06 52 35	1.0	10.3		SOD	iP	12 40 57.1			
	H:	06 42 11.2						ePP	41 54			
		51.4 N, 179.5 E, 28 km (R)						e(S)	45 53			
		Rat Islands					KJN	iP	12 40 52.8 D	0.8	18.7	
15	NUR	eP	09 53 32					iPP	41 38.9			
		ePPP	57 32				KEV	iP	12 40 56.4	0.7	16.8	
		eS	10 02 32					iPP	42 04.0			
		eSS	07 00					e	44 20			
		e	32				H:	12 34 54.8				
		eLQ	10 12.0					53.6 N, 81.3 E, 11 km (R)				
		eLR	10 15					Central Russia				
	SOD	eP	09 54 11			15	SOD	eP	20 13 59			
	KJN	iP	09 53 52.0					e	14 08			
	H:	09 42 22					KJN	eP	20 13 59			
		0.4 N, 19.2 W, 33 km (R)						i	14 08.6			
		Central Mid-Atlantic Ridge					H:	20 11 40.5				
15	NUR	iP	10 56 30.4 U	1.0	200.0			13.6 N, 126.1 E, 33 km (R)				
		e	57 18					Philippine Islands				
		e	11 01 29			15	SOD	eP	21 35 12			
		eSKS	06 50				KJN	eP	21 35 11			
		eS	07 23			15	SOD	eP	21 53 20			
		cont.						cont.				

February				February			
		T	A			T	A
	KJN eP	21 53 29			SOD iP	20 53 54.0 D	
	H:	21 41 02.5			ipP	54 34.8	
		12.9 N, 125.9 E, 63 km			KJN eP	20 53 37	
		Samar, Philippine Is.			e	54 48	
15	SOD eP	23 58 18			KEV iP	20 54 02.6 D	0.9 36.1
					ipP	42.8	
					H:	20 46 37.4	
16	NUR eP	01 05 46	1.0	14.0		36.3 N, 70.8 E, 190 km (R)	
	i	59.0				Hindu Kush region	
	SOD eP	01 05 02			16	NUR iP	21 20 27.8 D 0.8 28.8
	KJN iP	01 05 20.4 D	1.0	16.0	i	40.0	
	H:	00 54 59.1			SOD iP	21 29 43.1 D	
		51.2 N, 177.5 E, 45 km (R)			KJN eP	21 20 01	
		Rat Islands			KEV eP	21 19 27	
16	KJN eP	03 49 48			H:	21 09 47.2	
						52.0 N, 175.8 E, 40 km (R)	
16	NUR eP	10 49 54	0.7	6.5		Rat Islands	
	SOD iP	10 49 28.8 D			17	NUR eP	01 11 05
	KJN eP	10 49 36				H:	01 00 23.3
	H:	10 38 15.0					51.7 N, 174.2 E, 35 km (R)
		29.6 N, 140.7 E, 101 km					Rat Islands
		South of Honshu, Japan			17	NUR iP	03 03 08.3 D 1.0 26.0
16	NUR eP	11 11 56	1.2	20.0		SOD eP	03 02 23
	SOD eP	11 11 32				H:	02 52 26.0
	H:	10 59 17.5					51.9 N, 175.1 E, 34 km (R)
		26.4 N, 110.0 W, 33 km (R)					Rat Islands
		Gulf of California			17	SOD eP	03 44 49
16	NUR iP	12 35 06.7 U	1.0	100.0			
	ePP	37 34			17	NUR eP	04 12 01 1.0 20.0
	eS	44 06				SOD eP	04 11 14
	eSS	48 34				KJN eP	04 11 37
	eLQ	12 53				H:	04 01 35.5
	eLR	12 56.5					57.1 N, 153.4 W, 20 km (R)
	SOD iP	12 34 34.7 U					Kodiak Island region
	KJN eP	12 34 45			17	NUR iP	05 03 27.6 0.8 8.6
	KEV iP	12 34 23.2 U	1.2	83.7		SOD eP	05 02 42
	H:	12 24 08.8				KJN eP	05 03 06
		39.5 N, 141.8 E, 33 km (R)				H:	04 53 06.0
		Honshu, Japan					57.1 N, 152.9 W, 33 km (R)
16	NUR eP	18 01 47					Kodiak Island region
	SOD eP	18 01 31			17	NUR eP	10 22 02 0.8 21.6
	KJN eP	18 01 38				SOD iP	10 21 19.3 U
	H:	17 49 02.9				KJN iP	10 21 37.7 D 0.7 12.1
		7.9 N, 126.6 E, 102 km				KEV eP	10 21 02 0.7 15.1
		Mindanao, Philippine Is.				H:	10 11 13.7
16	NUR iP	20 53 37.7 D	1.0	58.0			51.2 N, 178.3 E, 35 km (R)
	epP	54 18					Rat Islands
	e	40					
		cont.					

February							February						
					T	A					T	A	
17	NUR	iP	10 23	53.0	1.0	40.0	18	NUR	iP	04 36	28.3 D	1.3	53.3
	SOD	eP	10 23	08				i		43.0	1.0	81.6	
	KJN	eP	10 23	26	1.1	20.9		i		37 11.0			
	H: 10 13 03.2							eS		44 25			
	50.3 N, 173.1 E, 23 km (R)							e		46 06			
	Rat Islands							eSS		48 20			
								eLQ	04	50.5			
17	NUR	iP	10 29	33.6 U	1.5	140.1		eLR	04	54.6			
	ePP		32	04			SOD	iP	04 36	30.1 D			
	e			57			i			43.4			
	eS		38	13			i		38	14.2			
	eSS		42	14			KJN	iP	04 36	21.6 D	1.2	59.2	
	eLQ	10	47.5				i			36.4	1.2	93.0	
	eLR	10	50.8				eS		44	21			
	SOD	iP	10 28	49.9 U			KEV	iP	04 36	31.9 D	0.9	43.7	
	KJN	iP	10 29	08.9	1.2	79.4	i			45.0			
	KEV	iP	10 28	34.0			i		37	38.4			
	eS		36	18			eS		44	34			
	eSS		40	34			H: 04 26 33.5						
	H: 10 18 51.3							25.0 N, 94.3 E, 36 km					
	51.8 N, 176.6 E, 44 km (R)							Burma-India border					
	Rat Islands												
17	SOD	eP	13 02	51			18	NUR	iP	06 28	00.4 D	1.0	23.5
	KJN	eP	13 03	08	0.9	8.7		KJN	eP	06 27	34	1.0	12.5
	H: 12 52 49.8							i		29	23.0		
	51.6 N, 176.2 E, 30 km (R)							KEV	eP	06 27	01		
	Rat Islands							H: 06 17 21.4					
								52.0 N, 175.0 E, 45 km (R)					
								Rat Islands					
17	NUR	iP	18 35	51.4 U	1.0	70.0	18	NUR	iP	07 37	37.8 D	0.9	37.7
	eS		45	46				SOD	eP	07 36	53		
	SOD	iP	18 35	30.0 U				KJN	iP	07 37	12.0	1.0	14.8
	KJN	iP	18 35	35.8 U	0.7	60.6		e			23		
	eS		45	17				H: 07 26 57.8					
	KEV	iP	18 35	22.0 U	0.9	200.1		51.9 N, 174.1 E, 36 km (R)					
	H: 18 23 51.7							Rat Islands					
	21.6 N, 142.8 E, 290 km												
	Mariana Islands												
17	NUR	eP	19 46	35			18	NUR	iP	08 44	51.3 U	0.8	35.3
	SOD	eP	19 46	59				e		45	07		
	KJN	eP	19 46	56	1.0	13.7		iPcP			22.1		
	e		47	05	0.8	10.2		SOD	iP	08 44	07.0 U		
	H: 19 35 30.3							KEV	iP	08 43	50.2	0.9	18.5
	0.3 S, 19.0 W, 33 km (R)							H: 08 34 05.4					
	Central Mid-Atlantic Ridge							51.8 N, 176.4 E, 15 km (R)					
								Rat Islands					
17	NUR	eP	22 26	42			18	NUR	iP	09 45	37.7	1.0	33.3
	SOD	eP	22 25	57				e			47		
	H: 22 15 49							SOD	eP	09 44	53		
	52.7 N, 163.0 W, 31 km (R)							KJN	iP	09 45	11.4 U	0.9	14.5
	South of Alaska							cont.					

February				February			
		T	A			T	A
	KEV eP	09 44 40		18	NUR iP	23 24 24.9 U	1.1 53.6
	H:	09 34 52.4			SOD iP	23 23 40.6 U	
		51.6 N, 174.9 E, 20 km (R)			i	24 13.0	
		Rat Islands			KJN iP	23 23 59.1 U	1.1 40.3
18	NUR eP	10 55 06			H:	23 13 36.3	
	KJN eP	10 54 38				51.4 N, 179.1 E, 28 km (R)	
	H:	10 44 28.8				Rat Islands	
		52.0 N, 172.3 E, 35 km (R)		18	NUR eP	23 37 22	1.0 11.8
		Rat Islands			SOD eP	23 36 38	
18	NUR eP	19 40 28			KJN eP	23 36 56	
	SOD iP	19 39 41.0 D			H:	23 26 38.9	
	KJN eP	19 40 03	0.9 7.7			51.4 N, 174.7 E, 44 km (R)	
	i	12.6				Rat Islands	
	H:	19 30 19.9		18	NUR eP	23 45 44	0.9 11.5
		59.2 N, 147.5 W, 30 km (R)			SOD eP	23 45 03	
		Gulf of Alaska			KJN iP	23 45 22.1 D	1.0 23.9
18	NUR eP	20 41 52	0.9 8.2		H:	23 35 00.2	
	SOD iP	20 41 39.8				41.3 N, 139.0 E, 12 km (R)	
	KJN iP	20 41 38.8 D	0.7 13.7			Hokkaido, Japan	
	H:	20 30 03.1		19	NUR eP	03 18 08	0.8 8.5
		18.6 N, 120.0 E, 36 km			KJN eP	03 17 41	
		Luzon, Philippine Is.			H:	03 07 32.0	
18	NUR ePKP	22 41 43				52.8 N, 172.0 E, 10 km (R)	
	i	44.3	0.8 38.1			Rat Islands	
	H:	22 22 20		19	NUR iP	03 35 27.6 D	1.0 43.1
		28.8 S, 178.0 W, 119 km			e	37	
		Kermadec Islands			SOD iP	03 34 44.0	
18	NUR iP	22 43 29.3	0.7 15.1		KJN iP	03 35 02.2 D	0.8 17.8
	SOD eP	22 44 33			H:	03 24 43.1	
	i	48.2				51.6 N, 175.0 E, 23 km (R)	
	KJN iP	22 43 54.7	0.8 17.0			Rat Islands	
	e	48 15		19	NUR eP	04 01 35	
18	NUR eP	22 53 38					
	eS	23 05 20		19	NUR eP	04 31 39	0.8 9.9
	ePS	06 24			KJN eP	04 31 13	0.9 9.6
	eSS	12 30			H:	04 20 56.0	
	eSSS	15 38				51.7 N, 176.5 E, 40 km (R)	
	eLQ	23 22				Rat Islands	
	eLR	23 28		19	NUR eP	06 33 11	1.1 25.6
	SOD eP	22 53 31			SOD eP	06 32 26	
	KJN iP	22 53 30.0 D			KJN eP	06 32 45	1.0 17.1
	i	39.9			H:	06 22 23.4	
	ePP	57 26				51.2 N, 177.8 E, 40 km (R)	
	KEV eP	22 53 38	0.9 22.2			Rat Islands	
	ePS	23 06 17					
	eSS	12 10					
	H:	22 39 45.8					
		7.3 S, 126.9 E, 33 km (R)					
		Banda Sea					

February				T	A	February				T	A
19	NUR	ePKP	10 27 34	1.0	21.6	20	NUR	eP	07 40 11		
	KJN	ePKP	10 27 24	0.9	5.8		KJN	eP	07 40 47		
	H: 10 08 41.6										
	12.4 S, 166.4 E, 65 km					20	NUR	eP	09 22 48	0.9	11.8
	Santa Cruz Islands						KJN	iP	09 22 54.6 D	0.8	17.3
19	NUR	eP	14 58 26	1.0	11.8		H: 09 10 38.3				
		i	35.2				10.5 N, 62.3 W, 6 km				
	KJN	eP	14 58 01				Near coast of Venezuela				
		i	09.1			20	NUR	eP	15 03 43		
	H: 14 47 48.1						H: 14 52 48.1				
	52.4 N, 174.8 E, 33 km (R)						50.5 N, 178.0 E, 20 km (R)				
	Rat Islands						Rat Islands				
19	NUR	iP	18 29 19.8 D	0.7	20.2	20	NUR	iP	20 54 48.0 U	0.9	37.0
	SOD	iP	18 28 56.0 U				SOD	iP	20 54 04.0		
	KJN	iP	18 29 03.0 U	0.8	20.8		KJN	iP	20 54 22.6 U	1.0	36.0
	H: 18 18 15.0						iPcP 55 03.2				
	27.9 N, 139.7 E, 480 km						H: 20 44 03.9				
	Bonin Islands						51.7 N, 176.4 E, 33 km (R)				
							Rat Islands				
19	NUR	iP	19 03 30.8	0.8	38.1	20	NUR	iP	22 17 31.4	0.9	25.2
	SOD	iP	19 02 47.7 U				SOD	eP	22 16 48		
		e	03 07				KJN	iP	22 17 07.0 U	1.0	23.2
	KJN	iP	19 03 06.2 D	0.8	24.3		H: 22 06 38.3				
		i	19.6				50.4 N, 178.2 E, 32 km (R)				
	KEV	eP	19 02 31				Rat Islands				
	H: 18 52 42.1					20	NUR	eP	22 30 55		
	51.1 N, 178.4 E, 35 km (R)						SOD	eP	22 30 10		
	Rat Islands						KJN	eP	22 30 29		
19	NUR	iP	23 51 12.3 D	0.9	18.0		H: 22 20 08.6				
	SOD	iP	23 50 29.0				51.4 N, 176.7 E, 35 km (R)				
		i	49.6				Rat Islands				
	KJN	iP	23 50 46.3 D	0.9	15.7	20	NUR	eP	22 52 05		
	H: 23 40 29.1							i	07.9	0.7	12.9
	51.7 N, 176.4 E, 40 km (R)						KJN	eP	22 52 43		
	Rat Islands						H: 22 47 09.2				
20	NUR	eP	02 18 52	0.8	14.4		38.4 N, 21.9 E, 10 km				
	SOD	eP	02 18 07				Greece				
	KJN	iP	02 18 26.0 U	0.9	20.7	21	NUR	eP	00 12 16		
	H: 02 08 11.0						SOD	eP	00 10 54		
	51.8 N, 174.9 E, 33 km (R)							eS	13 02		
	Rat Islands						KJN	eP	00 11 38		
20	NUR	eP	02 33 08	1.0	14.0			i	42.8		
	KJN	eP	02 32 50					eS	14 34		
	H: 02 21 47.6						H: 00 07 39				
	34.8 N, 139.3 E, 19 km						80.7 N, 13.1 E, 33 km (R)				
	Honshu, Japan						Svalbard region				

February				February			
		T	A		T	A	
21	NUR eP	03 33 39		22	NUR eP	12 03 32	
	KJN iP	03 33 37.6 D	0.9 19.7		KJN eP	12 03 06	
	H:	03 25 35			H:	11 52 42.5	
		32.4 N, 76.9 E, 33 km (R)				51.2 N, 177.4 E, 25 km (R)	
		Kashmir-India border				Rat Islands	
21	NUR eP	04 49 24	0.6 10.0	23	NUR eP	02 18 32	
	SOD eP	04 48 48			H:	02 07 44.6	
	KJN eP	04 49 01				50.8 N, 174.3 E, 33 km (R)	
	H:	04 38 46.3				Rat Islands	
		44.7 N, 148.1 E, 61 km (R)					
		Kurile Islands					
21	NUR eP	05 57 16		23	NUR iP	07 17 47.0 U	0.7 26.4
	SOD eP	05 56 33			e	57	
	H:	05 46 27.1			KJN iP	07 17 21.0	0.9 10.1
		51.1 N, 177.8 E, 30 km (R)			H:	07 07 13	
		Rat Islands				52.6 N, 173.0 E, 40 km (R)	
						Rat Islands	
21	NUR ePKP	11 33 29		23	SOD eP	13 36 30	
	ePKS	36 56			KJN eP	13 36 40	
	KJN ePKP	11 33 19			H:	13 23 34	
	i	30.0				5.5 N, 128.7 E, 67 km	
	H:	11 14 15.1				East of Philippine Islands	
		15.1 S, 173.2 W, 33 km (R)					
		Tonga Islands		23	NUR iP	17 25 06.7	0.7 16.8
21	NUR iP	22 39 19.0	0.7 11.6		SOD iP	17 25 23.1	
	SOD iP	22 38 48.9			KJN iP	17 25 06.2	0.7 12.6
	KJN iP	22 38 58.2 D	0.8 27.7				
	H:	22 28 28.4					
		37.4 N, 139.5 E, 145 km		23	NUR eP	22 26 40	
		Honshu, Japan			ePKP	30 24	
					ePP	31 23	
22	SOD eP	07 37 27			eSKS	37 06	
	KJN eP	07 37 51			eS	39 00	
	H:	07 27 30			ePS	40 54	
		51.4 N, 177.1 E, 35 km (R)			ePKKP	41 13	
		Rat Islands			eSS	47 00	
					eSSS	50 58	
22	NUR iP	09 25 30.0 D	1.0 56.0	SOD ePKP	22 30 27		
	i	40.2 D	1.2 122.6		ePP	31 33	
	SOD iP	09 24 46.9			eSKS	37 06	
	i	55.6 D			ePKKP	40 51	
	KJN eP	09 25 05	0.8 12.4	KJN iP	22 30 27.3	1.0 18.9	
	i	14.2 D	1.3 106.3		iPP	31 30.6	
	KEV eP	09 24 28			ePKKP	40 57	
	i	38.4		KEV e	22 31 13		
	H:	09 14 51.3			ePP	46	
		51.9 N, 173.4 E, 35 km (R)			eSKS	37 10	
		Rat Islands			e	38 22	
					e	39 46	

cont.

February

February

		T		A				T		A	
	ePS	41	18								
	eSS	47	14								
	e	49	02								
	eSSS	52	00								
	H: 22 11 50.2										
	25.7 S, 70.5 W, 80 km (R)										
	Northern Chile										
24	NUR eP	00	56	26	0.8	5.8					
	H: 00 45 33										
	51.9 N, 167.8 W, 30 km (R)										
	Fox Islands										
24	NUR iP	01	23	11.1	0.9	18.5					
	SOD eP	01	22	15							
	i			22.9							
	KJN iP	01	22	46.2	1.0	16.5					
	H: 01 13 01.1										
	60.1 N, 149.6 W, 30 km (R)										
	Kenai Peninsula, Alaska										
24	NUR eSKS	08	32	53							
	ePS		34	26							
	eSS		39	24							
	eLR	08		51.3							
	KEV eS	08	32	30							
	eLR	08		50							
	H: 08 09 17.2										
	14.0 N, 92.2 W, 56 km										
	Chiapas, Mexico										
24	NUR eP	14	32	08							
	KJN eP	14	31	41							
	H: 14 21 18.9										
	51.1 N, 177.6 E, 35 km (R)										
	Rat Islands										
24	NUR iP	21	04	30.8 U	1.0	50.0					
	i			43.4							
	i		05	05.0							
	SOD iP	21	03	44.9							
	H: 20 53 52.4										
	52.2 N, 174.4 E, 34 km (R)										
	Rat Islands										
24	NUR iP	21	34	03.2 D	0.7	30.9					
	iPcP			36.9							
	SOD iP	21	33	18.3 D							
	e			23							
	cont.										
	KJN iP	21	33	38.1 U	0.5	20.1					
	KEV eP	21	33	02	0.9	28.3					
	H: 21 23 16.5										
	51.4 N, 178.2 E, 33 km (R)										
	Rat Islands										
25	NUR iP	02	06	35.2 D							
	SOD eP	02	06	01							
	KJN iP	02	06	13.6 D	1.0	24.4					
	H: 01 55 37.7										
	40.1 N, 143.0 E, 33 km (R)										
	Honshu, Japan										
25	NUR eP	02	12	30							
	SOD iP	02	11	40.5							
	i			49.6							
	KJN eP	02	12	14							
	H: 02 02 37.4										
	61.2 N, 146.7 W, 40 km (R)										
	Southern Alaska										
25	NUR eP	03	15	25							
	SOD eP	03	14	54							
	KJN iP	03	15	04.1 D							
	H: 03 05 45										
	42.9 N, 135.6 E, 435 km										
	Sea of Japan										
25	NUR ePKP	03	54	23							
	SOD iPKP	03	54	35.2							
	eSKP			57 52							
	KJN ePKP	03	54	30	1.2	55.7					
	iSKP			57 42.3	1.0	22.0					
	H: 03 35 27.1										
	59.2 S, 26.2 W, 33 km (R)										
	South Sandwich Islands										
25	NUR ePKP	05	10	01							
	ePP			49							
	ePPP			12 40							
	eSKS			16 52							
	SOD eP	05	05	45							
	KJN iP	05	05	51.3 D	0.9	17.7					
	KEV eP	05	05	36							
	ePP			10 02							
	e			11 42							
	eSKS			16 14							
	e			30							
	ePS			19 04							
	eSS			25 02							
	H: 04 51 27.8										
	5.5 S, 152.0 E, 35 km										
	New Britain region										



February

February

			T	A
27	NUR eP	17 43 56	1.0	24.0
	SOD iP	17 43 11.0		
	KJN iP	17 43 30.6 U	1.1	29.2
	H: 17 33 10.7			
	51.4 N, 176.6 E, 35 km (R)			
	Rat Islands			
28	NUR eP	00 57 52		
	H: 00 46 58.3			
	50.3 N, 177.6 E, 33 km (R)			
	Rat Islands			
28	NUR iP	01 27 15.8	1.0	30.8
	SOD eP	01 26 31		
	KJN eP	01 26 50		
	H: 01 16 21.8			
	50.4 N, 177.7 E, 34 km			
	Rat Islands			
28	NUR iP	04 03 52.1	0.8	19.1
	SOD eP	04 03 06		
	KJN eP	04 03 26		
	H: 03 53 15.6			
	52.5 N, 172.8 E, 33 km (R)			
	Rat Islands			
28	NUR eP	04 52 34		
	SOD iP	04 52 19.7		
	KJN iP	04 52 21.3	0.8	11.0
	H: 04 40 55.1			
	21.2 N, 121.3 E, 33 km (R)			
	Taiwan region			

			T	A
28	NUR ePKP	06 34 57		
	H: 06 15 28			
	36.2 S, 178.6 E, 221 km			
	North Island, N.Z.			
28	NUR eP	08 12 59		
	KJN eP	08 13 12		
	H: 08 05 37			
	27.6 N, 55.1 E, 33 km (R)			
	Southern Iran			
28	NUR eP	11 14 45		
28	NUR eP	19 39 22		
	KJN eP	19 39 04		
	H: 19 33 14			
	54.5 N, 80.9 E, 33 km (R)			
	Central Russia			

September 27, 1965

Urmas Luosto
Aili Huovila

March

March

March						March					
			T	A				T	A		
1	NUR	eSKP	00 03 44			1	NUR	iP	19 32 40.5 D	1.0	67.2
	KJN	eSKP	00 03 33					eS	41 14		
			H: 23 42 21.9				SOD	iP	19 31 54.4 D		
			25.3 S, 179.6 E, 485 km					iPcP	32 46.3		
			South of Fiji Islands				KJN	iP	19 32 14.7 D	1.0	24.6
1	NUR	iPKP	07 39 29.2	1.0	21.0			iPcP	57.7		
		iPP	40 18				KEV	eP	19 31 39		
		ePS	49 37					H: 19 22 01.6			
		eSPP	50 46					52.2 N, 173.9 E, 30 km (R)			
		eSS	56 04					Rat Islands			
		eSSS	08 00 36			1	NUR	iPKP	20 21 47.3 D	0.9	26.4
	KJN	iPKP	07 39 24.1 D	1.0	16.1		KJN	iPKP	20 21 40.1	1.0	18.5
			H: 07 20 55.3					H: 20 03 09.8			
			5.5 S, 152.1 E, 35 km					12.3 S, 166.7 E, 190 km (R)			
			New Britain region					Santa Cruz Islands			
1	NUR	eP	08 30 35			1	NUR	eP	21 44 58		
	SOD	iP	08 30 20.6					epP	45 26		
		i	38.9					isP	42.8		
	KJN	iP	08 30 22.3	0.9	29.0			ePP	48 24		
	KEV	iP	08 30 17.0					ipPP	52		
			H: 08 18 56.4					e	49 54		
			21.1 N, 121.2 E, 42 km					iSKS	55 20		
			Taiwan region					eS	43		
1	NUR	eP	10 05 21	0.8	15.1			ePS	56 50		
			H: 09 54 39					e	58 00		
			52.0 N, 173.9 E, 25 km (R)					eSS	22 01 26		
			Rat Islands				SOD	eP	21 44 45		
1	NUR	iP	13 32 35.1 U	0.8	22.7			isP	45 32.6		
		eS	42 08					eS	55 16		
		eScS	36				KJN	eP	21 44 55		
		eSS	47 20					isP	45 44.3		
	SOD	iP	13 32 20.1 D					ePP	48 23		
	KJN	iP	13 32 21.6 D	0.7	34.9		KEV	eP	21 44 40		
	KEV	iP	13 32 17.0 U	0.9	98.4			i	41.4	0.8	31.0
			H: 13 20 56.7					isP	45 27.5		
			21.2 N, 121.2 E, 42 km					H: 21 32 11.8			
			Taiwan region					15.4 N, 92.5 W, 93 km (R)			
1	NUR	ePPS	16 28 20					Mexico-Guatemala border			
		eSS	34 28			1	NUR	ePKP	22 10 20	1.0	21.0
		eSSS	38 40					i	29.2		
			H: 15 54 24.5					e	11 18		
			41.4 S, 85.6 W, 33 km (R)					e	40		
			West Chile Rise					iSKP	13 17.8		
1	KJN	eP	16 45 12					ePKS	14 04		
			H: 16 32 19.4				SOD	ePKP	22 10 18		
			6.0 S, 102.7 E, 87 km					iSKP	12 54.7		
			Southern Sumatra				KJN	ePKP	22 10 13		
								i	24.0		
								iSKP	13 02.0		
								ePKS	54		
								cont.			

March				March				
	T	A		T	A			
KEV ePKP 22 10 13 eSKP 12 47 H: 21 52 04.4 23.5 S, 179.0 E, 541 km South of Fiji Islands				2 NUR ePKP 07 44 36 epPKP 50 KJN ePKP 07 44 39 ipPKP 46.2 H: 07 25 05.3 27.4 S, 177.7 W, 68 km Kermadec Islands				
1 NUR eP 23 59 49 H: 23 49 09 51.6 N, 172.7 E, 35 km (R) Rat Islands				2 NUR eP 09 35 13 SOD eP 09 34 00 i 07.9 eS 35 40 KJN eP 09 34 38 i 40.0 i 50.3 KEV eP 09 33 38 eS 34 59 H: 09 31 51 73.5 N, 7.2 E, 33 km (R) Greenland Sea	1.3	83.8		
2 NUR ePKP 00 12 04 KJN ePKP 00 11 55 H: 23 52 32.1 27.3 S, 177.9 W, 33 km (R) Kermadec Islands	1.0	18.9		2 NUR ePKP 09 39 09 SOD ePKP 09 39 04 KJN ePKP 09 39 05 H: 09 19 41.6 27.2 S, 177.9 W, 39 km Kermadec Islands				
2 NUR eP 00 29 07				2 NUR eP 09 56 19 SOD eP 09 55 05 eS 56 43 KJN eP 09 55 42 i 45.7 i 50.2 e 56 04 KEV eP 09 54 43 eS 56 02	1.1	31.7		
2 NUR ePKP 03 10 07 KJN ePKP 03 10 00 H: 02 50 35.5 27.4 S, 177.7 W, 33 km (R) Kermadec Islands	1.1	17.4		2 SOD eP 10 00 17				
2 NUR ePKP 04 59 41 KJN ePKP 04 59 39 H: 04 40 13.1 27.1 S, 177.6 W, 33 km (R) Kermadec Islands				2 NUR ePKP 10 43 06 KJN ePKP 10 42 56 H: 10 23 33 26.9 S, 177.7 W, 33 km (R) South of Fiji Islands			0.9	73.8
2 NUR ePKP 05 59 52 KJN ePKP 05 59 42 H: 05 40 20 27.3 S, 177.7 W, 33 km (R) Kermadec Islands				2 NUR eP 10 46 23 SOD eP 10 45 38 KJN eP 10 45 58 H: 10 35 40.0 51.4 N, 174.7 E, 33 km (R) Rat Islands				
2 NUR ePKP 06 17 05 KJN ePKP 06 16 57 H: 05 57 36.8 27.3 S, 177.5 W, 33 km (R) Kermadec Islands	1.0	18.9						
2 KJN ePKP 06 46 43 H: 06 27 20.7 27.3 S, 177.8 W, 46 km Kermadec Islands								
2 NUR iPKP 06 55 08.0 U KJN ePKP 06 55 05 H: 06 34 48 61.0 S, 154.8 E, 33 km (R) West Macquarie Island	1.2	35.9						

March

	T	A		
2 NUR ePKP 12 46 09 H: 12 26 39 27.3 S, 177.6 W, 33 km (R) Kermadec Islands				
2 NUR ePKP 13 12 49 H: 12 53 26 26.9 S, 178.0 W, 75 km South of Fiji Islands				
2 NUR ePKP 14 42 41 KJN ePKP 14 42 34 H: 14 23 08.6 27.3 S, 177.7 W, 34 km Kermadec Islands				
2 NUR ePKP 14 51 43 KJN ePKP 14 51 36 H: 14 32 08.9 27.4 S, 177.6 W, 9 km Kermadec Islands				
2 NUR ePKP 15 32 07 H: 15 12 39.6 27.0 S, 177.7 W, 33 km (R) Kermadec Islands				
2 NUR ePKP 15 42 52 KJN ePKP 15 42 44 H: 15 23 28 27.3 S, 178.2 W, 89 km Kermadec Islands				
2 NUR ePKP 16 08 00 H: 15 48 31.6 27.1 S, 177.5 W, 33 km (R) Kermadec Islands				
2 NUR ePKP 16 44 32 KJN ePKP 16 44 28 H: 16 25 04.0 27.0 S, 177.7 W, 33 km (R) Kermadec Islands				
2 NUR ePKP 16 53 52 KJN ePKP 16 53 49 H: 16 34 26.9 27.0 S, 177.7 W, 70 km South of Fiji Islands	1.0	28.7		
	1.0	16.7		
2 NUR ePKP 20 10 30 KJN ePKP 20 10 27 H: 19 51 01.0 27.2 S, 177.9 W, 33 km (R) Kermadec Islands	0.9	11.3		

March

	T	A		
2 NUR ePKP 20 43 57 H: 20 24 19 27.3 S, 177.5 W, 33 km (R) Kermadec Islands				
2 KJN ePKP 21 41 46 H: 21 22 30 26.7 S, 177.9 W, 33 km (R) South of Fiji Islands				
2 NUR iP 21 47 40.1 U 0.9 112.6 epP 49 31 iS 56 43.5 SOD iP 21 47 15.5 U epP 49 18 KJN iP 21 47 22.9 U 0.6 48.9 epP 49 23 iS 56 10.3 iScS 21.2 KEV iP 21 47 07.6 U 0.8 69.1 e 54 18 eS 55 40 H: 21 36 38.4 28.2 N, 139.3 E, 495 km Bonin Islands				
2 NUR iP 22 05 00.2 1.0 44.0 i 02.9 iS 09 06 eLR 22 10.5 SOD iP 22 06 04.7 KJN iP 22 05 34.1 0.9 18.8 KEV eP 22 06 25 eS 11 30 eLR 22 15 H: 22 00 07.8 38.6 N, 28.3 E, 45 km Turkey				
2 NUR ePKP 23 50 06 KJN ePKP 23 49 53 H: 23 30 42.8 26.7 S, 178.0 W, 109 km South of Fiji Islands				
2 NUR ePKP 23 53 06 KJN ePKP 23 53 00 H: 23 33 39 27.0 S, 177.7 W, 33 km Kermadec Islands				
3 NUR iP 01 06 32.0 0.7 10.3 SOD eP 01 05 47				

cont.

March

March

			T	A	
	KJN eP	01 06 01			
	H:	00 55 47			
		51.4 N, 170.3 E, 33 km (R)			
		Rat Islands			
3	NUR ePKP	01 21 54			
	KJN ePKP	01 21 45			
	H:	01 02 24.4			
		27.2 S, 177.7 W, 33 km (R)			
		Kermadec Islands			
3	NUR ePKP	02 55 40			
	H:	02 36 10			
		27.3 S, 177.5 W, 33 km (R)			
		Kermadec Islands			
3	NUR ePKP	03 36 34			
	KJN ePKP	03 36 24			
	H:	03 17 04.1			
		27.2 S, 177.6 W, 33 km (R)			
		Kermadec Islands			
3	SOD eP	03 39 53			
	KJN eP	03 39 50			
	H:	03 26 43.9			
		6.0 S, 128.3 E, 340 km			
		Banda Sea			
3	NUR ePKP	06 12 26			
	KJN ePKP	06 12 23			
	H:	05 52 57.4			
		27.2 S, 177.6 W, 33 km (R)			
		Kermadec Islands			
3	NUR iP	06 21 20.8 U	0.6	32.5	
	e	22 11			
	SOD iP	06 21 15.1 U			
	e	22 11			
	KJN iP	06 21 07.7 U	0.7	60.6	
	e	37			
	KEV iP	06 21 18.1	0.6	14.6	
	e	22 09			
	H:	06 14 57.0			
		49.8 N, 78.1 E, 0 km (R)			
		Eastern Kazakh SSR			
3	NUR iP	07 29 10.0 U	0.8	50.4	
	i	14.8			
	ePP	30 57			
	SOD eP	07 28 52			
	i	58.9			
	ePP	30 40			
		cont.			

			T	A	
	KJN iP	07 28 52.1 D			
	i	58.7			
	iPP	30 35.2			
	H:	07 20 44.2			
		44.6 N, 101.7 E, 33 km (R)			
		Mongolia			
3	NUR eP	10 53 16			
	SOD eP	10 52 28			
	KJN eP	10 52 50	0.9	9.6	
	H:	10 42 34.4			
		51.7 N, 175.3 E, 44 km			
		Rat Islands			
3	NUR ePKP	11 55 58	0.7	5.2	
	KJN ePKP	11 55 54			
	H:	11 36 28.3			
		27.2 S, 177.6 W, 33 km (R)			
		Kermadec Islands			
3	NUR eP	14 07 22			
	H:	13 56 23.2			
		50.0 N, 179.0 E, 22 km			
		Rat Islands			
3	NUR iPKP	14 58 31.5	1.2	34.2	
	SOD ePKP	14 58 24			
	KJN ePKP	14 58 24			
	KEV ePKP	14 58 20	1.1	35.0	
	H:	14 39 05.0			
		27.0 S, 177.8 W, 43 km			
		Kermadec Islands			
3	NUR eP	15 28 48			
	ePKP	32 44			
	ePP	33 33			
	ePPP	35 52			
	eSKS	39 16			
	ePS	43 00			
	ePKKP	45			
	eSS	48 34			
	SOD eP	15 28 28			
	ePKP	32 37			
	ePP	33 25			
	KJN eP	15 28 36			
	ePKP	32 36			
	ePP	33 32			
	ePKKP	43 53			
	KEV eP	15 28 16			
	ePP	32 48			
	ePS	42 04			
	H:	15 14 09.7			
		5.5 S, 151.9 E, 44 km			
		New Britain region			

March

					T	A
3	NUR	iP	16 57 57.0 U	1.1	690.2	
		i	59 22.1			
		iPP	17 00 16.5			
		eScS	07 47			
	SOD	iP	16 57 11.4 U			
		iPcP	58 06.2			
		e	59 06			
	KJN	iP	16 57 31.1 U	1.0	189.2	
		iPcP	58 17.4			
	KEV	iP	16 56 55.1 U	1.0	98.0	
	H: 16 47 25.7					
	53.1 N, 171.2 E, 23 km (R)					
	Rat Islands					
3	NUR	eP	17 51 02			
	SOD	eP	17 51 06			
	KJN	iP	17 51 00.1 D	0.9	19.3	
	H: 17 38 26.3					
	5.6 S, 103.3 E, 233 km					
	Southern Sumatra					
3	NUR	iP	19 24 56.9	0.9	28.6	
	SOD	iP	19 24 25.2 D			
	KJN	iP	19 24 43.6	0.8	32.3	
	KEV	eP	19 24 12	1.0	29.4	
3	NUR	eP	19 39 57	0.5	13.2	
		ePcP	40 29			
	SOD	eP	19 39 19			
	KJN	eP	19 39 34			
		iPcP	40 14.1	0.8	8.5	
	H: 19 29 16.1					
	45.7 N, 150.9 E, 33 km (R)					
	Kurile Islands					
3	NUR	ePKP	20 14 44			
	H: 19 55 16.7					
	27.1 S, 177.7 W, 33 km (R)					
	Kermadec Islands					
3	NUR	ePKP	21 31 47			
	KJN	ePKP	21 31 46			
	H: 21 12 16.5					
	27.2 S, 177.7 W, 33 km (R)					
	Kermadec Islands					
4	NUR	iP	01 53 33.2 D	1.0	30.0	
	SOD	iP	01 52 48.3			
	KJN	iP	01 53 07.9	1.1	29.9	
	H: 01 42 48.8					
	51.4 N, 176.7 E, 48 km					
	Rat Islands					

March

				T	A
4	NUR	eP	01 58 54		
	KJN	eP	01 58 43		
4	NUR	eP	02 00 42		
	KJN	eP	02 00 30		
4	NUR	eSP	02 16 32		
		ePKKP	18 05		
	SOD	eP	02 02 42		
		ePKKP	18 17		
	H: 01 48 54.1				
	5.4 S, 147.0 E, 191 km				
	East New Guinea				
4	NUR	eP	02 10 19		
4	NUR	iP	02 12 13.1 U	0.9	43.7
	SOD	iP	02 11 28.4 U		
	KJN	iP	02 11 48.2 U	1.1	46.2
	H: 02 01 27.1				
	51.5 N, 176.3 E, 25 km (R)				
	Rat Islands				
4	NUR	iP	02 33 30.0	1.0	16.0
	SOD	eP	02 32 45		
	KJN	iP	02 33 04.1	0.8	16.6
	H: 02 23 11				
	52.4 N, 160.5 E, 33 km (R)				
	Kamchatka				
4	NUR	iP	04 51 50.3	0.8	14.4
		i	52 03.1		
	SOD	e	04 52 36		
	KJN	iP	04 52 12.3 D	1.0	20.0
		i	25.1		
	H: 04 40 49.1				
	0.2 N, 18.0 W, 33 km (R)				
	Central Mid-Atlantic Ridge				
4	NUR	eP	06 27 25		
	SOD	eP	06 26 53		
	KJN	eP	06 27 05		
4	NUR	eP	06 36 53		
4	NUR	iP	06 40 55.9 U	0.9	85.7
		e	41 05		
		iPcP	28.0		
	SOD	iP	06 40 10.4 U		
		ePcP	41 00		
	KJN	iP	06 40 30.0 U	1.0	53.3
		iPcP	41 12.1		
	H: 06 30 16.2				
	52.0 N, 175.0 E, 40 km (R)				
	Rat Islands				



March

				T	A	
4	NUR	ePKP	08 43 51			
	KJN	ePKP	08 43 44			
	H:		08 24 19			
			27.3 S, 177.6 W, 33 km (R)			
			Kermadec Islands			
4	NUR	iP	12 51 08.8	0.8	11.5	
4	KJN	eP	20 52 30			
4	NUR	e	21 22 47			
	SOD	ePKP	21 22 46			
	KJN	ePKP	21 22 41			
		eSKP	25 59			
	H:		21 03 37.9			
			59.8 S, 26.2 W, 45 km			
			South Sandwich Islands			
4	NUR	ePKP	23 27 38			
	KJN	ePKP	23 27 28			
	H:		23 08 03.3			
			27.3 S, 177.4 W, 33 km (R)			
			Kermadec Islands			
5	NUR	eP	00 10 01	0.8	13.0	
	KJN	eP	00 09 35			
	H:		23 59 21.4			
			52.1 N, 175.0 E, 33 km (R)			
			Rat Islands			
5	KJN	eP	00 42 02			
5	NUR	iP	06 25 52.1	1.1	70.0	
		ePP	28 24			
		ePcS	30 24			
		ePS	35 20			
		eSS	38 54			
		eSSS	42 02			
		eLR	06 47.0			
	SOD	eP	06 25 07			
	KJN	iP	06 25 27.1 U	1.3	72.8	
	KEV	iP	06 24 51.0			
		ePcP	25 45			
		ePP	27 08			
	H:		06 15 01.1			
			51.2 N, 179.3 E, 25 km (R)			
			Rat Islands			
5	NUR	iP	06 36 55.4	1.0	19.6	
	SOD	eP	06 36 11			
			cont.			

March

				T	A	
	KJN	iP	06 36 30.6	1.1	20.9	
		iPcP	37 07.1			
	H:		06 25 56			
			49.9 N, 177.4 E, 15 km (R)			
			Rat Islands			
5	NUR	eP	10 17 35	1.0	17.6	
	KJN	eP	10 17 24			
		ePP	21 39			
	H:		10 03 34.2			
			5.1 S, 134.4 E, 33 km (R)			
			Aroe Islands region			
5	NUR	iP	13 53 22.7 U	0.9	356.2	
		ePP	55 38			
		ePPP	57 34			
		eS	14 02 03			
		eSS	06 06			
		e	09 36			
	SOD	eP	13 52 38			
		iPcP	53 28.2			
	KJN	iP	13 52 57.1 U	0.8	159.6	
		iPcP	53 38.7			
		i	55 02.3			
	KEV	iP	13 52 21.0 U	0.9	56.4	
		eSS	14 04 10			
		e	06 11			
		eLR	14 09.1			
	H:		13 42 44.1			
			52.3 N, 174.9 E, 35 km (R)			
			Rat Islands			
5	NUR	eP	14 12 44	1.1	16.7	
	KJN	eP	14 12 19			
	H:		14 01 47.6			
			50.3 N, 177.8 E, 15 km (R)			
			Rat Islands			
5	NUR	iPKP	14 49 49.9 D	0.6	30.0	
		eSKS	55 40			
		ePKKP	15 00 43			
	SOD	iPKP	14 49 54.4 U			
		ePKKP	15 00 41			
	KJN	iPKP	14 49 54.3 U	0.8	39.9	
		eSKS	55 49			
		iPKKP	15 00 42.3			
	KEV	iPKP	14 49 55.4 D	0.6	11.3	
	H:		14 32 19.2			
			27.0 S, 63.3 W, 573 km (R)			
			Argentina			
5	NUR	iP	15 29 16.3	0.9	16.8	

March		T	A	March		T	A
5	NUR eP 16 32 55 SOD eP 16 32 26 KJN eP 16 32 35 H: 16 21 51 35.5 N, 135.8 E, 33 km (R) Southern Honshu, Japan	0.6	4.8	5	NUR ePKP 22 00 26 H: 21 41 34.7 12.0 S, 166.3 E, 58 km Santa Cruz Islands	0.7	3.9
5	NUR eP 16 44 38 SOD eP 16 43 47 H: 16 33 52.7 51.5 N, 176.6 E, 35 km (R) Rat Islands			5	NUR iP 23 39 51.8 D ePP 41 56 eS 48 16 eSS 52 46 eLR 24 00.0 SOD eP 23 39 06 KJN iP 23 39 25.5 D i 44.0 iPcP 40 11.1 ePP 41 36 KEV iP 23 38 50.0 H: 23 29 23.2 53.0 N, 171.1 E, 45 km (R) Rat Islands	1.0	120.0
5	NUR eP 17 05 06						
5	NUR iPcP 17 28 26.8 U KJN ePKP 17 28 15 H: 17 08 51.8 29.1 S, 177.3 W, 21 km Kermadec Islands	0.9	85.7	6	NUR eP 03 42 55 SOD eP 03 42 08 KJN eP 03 42 30 H: 03 32 29.5 56.8 N, 154.4 W, 30 km (R) Kodiak Island region	0.7	5.2
5	NUR iP 18 09 51.0 U i 10 00.5 e 19 ePPP 13 54 eSS 22 50 eSSS 25 48 eLR 18 30.3 SOD iP 18 09 05.6 U i 15.7 iPcP 57.0 KJN iP 18 09 25.0 U iPcP 10 08.5 ePP 11 39 KEV iP 18 08 49.2 ePcP 09 47 e 17 16 eSS 20 18 eLR 18 25.5 H: 17 59 13.5 52.3 N, 174.2 E, 35 km (R) Rat Islands	1.0	224.0	6	NUR ePKP 04 26 17 i 23.2 KJN ePKP 04 26 04 i 21.0 H: 04 06 48.5 26.7 S, 177.3 W, 24 km (R) South of Fiji Islands	1.0	6.7
				6	KJN eP 05 22 52 H: 05 09 07.3 3.0 S, 138.8 E, 88 km West New Guinea		
				6	NUR iP 06 03 33.0 D i 43.5 SOD iP 06 02 47.5 i 58.0 KJN iP 06 03 07.1 i 18.0 KEV eP 06 02 31 H: 05 52 58.9 52.3 N, 172.4 E, 44 km (R) Near Islands	1.1	42.8
5	NUR ePKP 19 56 20 KJN ePKP 19 56 15 H: 19 36 43 27.5 S, 177.0 W, 33 km (R) Kermadec Islands					1.1	27.2
5	NUR ePKP 21 19 44 KJN ePKP 21 19 41 H: 21 00 14.8 27.2 S, 177.7 W, 33 km (R) Kermadec Islands			6	NUR eP 06 20 07 SOD eP 06 19 45 KJN eP 06 19 51		

March

				T	A
6	NUR	eP	07 24 57		
6	NUR	iP	08 30 08.9 U	0.9	171.4
		e	20		
		ePPP	34 12		
		eS	38 40		
		eLR	08 50.8		
SOD	iP		08 29 23.2 U		
	i		34.5		
	iPcP		30 15.1		
KJN	iP		08 29 43.1 U	0.9	60.3
	iPcP		30 25.0		
	ePP		31 56		
KEV	iP		08 29 07.0 U	0.8	70.1
	eSS		40 44		
	eLR		08 45.6		
	H: 08 19 30.5				
	52.4 N, 174.2 E, 25 km (R)				
	Rat Islands				
6	NUR	ePKP	11 30 09	0.8	8.6
	SOD	ePKP	11 29 57		
	KJN	iPKP	11 30 04.5	1.1	20.4
	H: 11 10 53.1				
	18.4 S, 132.9 W, 35 km				
	South Pacific Ocean				
6	SOD	eP	12 42 29		
6	SOD	eP	13 37 52		
6	NUR	iP	13 51 56.4 D	1.6	65.2
		ePPP	56 04		
		eS	14 00 36		
		eSS	05 10		
		e	08 14		
		eLR	14 12.5		
SOD	eP		13 51 11		
	e		56		
KJN	iP		13 51 30.5		
KEV	iP		13 50 55.9		
	eSS		14 02 32		
	eLR		14 07.5		
	H: 13 41 17.0				
	52.1 N, 175.4 E, 35 km (R)				
	Rat Islands				
6	NUR	iP	14 46 36.1	1.1	19.0
	H: 14 35 42.3				
	50.4 N, 177.8 E, 33 km (R)				
	Rat Islands				

March

				T	A
6	NUR	ePKP	16 21 25		
		i	31.0	0.9	99.1
		e	40		
	SOD	ePKP	16 21 18		
	KJN	ePKP	16 21 18		
	H: 16 01 53				
	30.3 S, 177.5 W, 63 km				
	Kermadec Islands				
6	NUR	eP	17 21 02		
	KJN	eP	17 20 46		
	H: 17 10 19.8				
	51.6 N, 174.3 E, 35 km (R)				
	Rat Islands				
6	NUR	eP	18 36 22		
	KJN	eP	18 35 56		
	H: 18 25 34.8				
	51.3 N, 176.3 E, 34 km (R)				
	Rat Islands				
6	NUR	eP	19 15 06		
		e	12	0.8	25.9
6	NUR	iP	20 35 38.7	2.0	147.2
		i	45.2		
		eS	45 18		
		eSS	50 10		
		eLQ	20 56.2		
SOD	iP		20 35 24.2		
	i		31.6		
	KJN	iP	20 35 25.4 U	1.2	99.6
	KEV	iP	20 35 21.0 D	1.4	105.0
		eS	44 42		
	H: 20 23 49.5				
	20.1 N, 121.3 E, 8 km				
	Philippine Islands				
7	NUR	iP	01 47 32.3 D	0.5	37.0
	SOD	iP	01 46 57.8 D		
	KJN	iP	01 47 09.6 D	0.6	40.3
	KEV	iP	01 46 47.0 D	0.7	39.2
		iPcP	47 47.0		
	H: 01 37 55.6				
	46.1 N, 137.1 E, 328 km				
	Eastern Russia				
7	NUR	iPKP	02 02 43.9 U	1.2	484.5
		ePP	06 03		
		eSKSP	16 10		
		ePPS	18 22		
		eSS	25 00		

cont.

March

March

			T	A	
	SOD	ePKP	02 02 29		
	KJN	ePKP	02 02 32		
	KEV	ePKP	02 02 37		
		ePP	05 10		
	H: 01 43 11.4				
	30.3 S, 177.9 W, 60 km (R)				
	Kermadec Islands				
7	NUR	eP	03 02 02		
	H: 02 51 18.5				
	51.6 N, 174.0 E, 25 km (R)				
	Rat Islands				
7	NUR	eP	07 41 37	1.0	18.0
		eS	48 52		
		eSS	52 36		
	KJN	eP	07 41 56		
	H: 07 32 38.1				
	12.1 N, 46.3 E, 38 km				
	Western Gulf of Aden				
7	NUR	iP	07 51 30.3	1.1	45.2
		i	35.0		
		eS	58 50		
	SOD	eP	07 52 13		
	KJN	iP	07 51 49.0	1.2	32.6
	KEV	eP	07 52 28		
		e	55 54		
	H: 07 42 31.2				
	12.1 N, 46.3 E, 33 km (R)				
	Western Gulf of Aden				
7	NUR	eP	10 31 03		
7	NUR	iP	11 15 21.3 U	1.0	58.0
	SOD	iP	11 14 36.1 U		
		e	46		
	KJN	iP	11 14 56.2 U	1.0	35.5
		e	15 06		
		iPcP	37.2		
	KEV	iP	11 14 20.2		
	H: 11 04 39.3				
	51.8 N, 176.4 E, 35 km (R)				
	Rat Islands				
7	NUR	ePKP	16 28 24		
	H: 16 08 56				
	27.5 S, 177.6 W, 33 km (R)				
	Kermadec Islands				
8	NUR	eP	12 37 09		
		i	24.0		
	cont.				

			T	A	
	SOD	iP	12 36 53.3		
	KJN	iP	12 36 55.0		
		e	37 07		
	H: 12 25 25.3				
	20.0 N, 121.3 E, 64 km				
	Philippine Islands				
8	NUR	eP	12 56 14		
	KJN	eP	12 55 48		
	H: 12 45 22.3				
	51.6 N, 173.5 W, 38 km				
	Andreanof Islands				
8	NUR	eP	23 07 53		
	KJN	eP	23 08 29		
	H: 23 02 56.0				
	38.0 N, 21.2 E, 55 km				
	Greece				
8	SOD	iP	23 40 41.7 U		
	KJN	iP	23 40 41.8 D		
9	NUR	ePKP	01 55 14		
		iSKP	58 09.1		
	KJN	ePKP	01 55 10		
		iSKP	57 56.2		
	H: 01 36 45.4				
	17.0 S, 177.4 W, 386 km				
	Fiji Islands				
9	NUR	e(P)	03 48 20		
		eS	51 50		
	SOD	eP	03 46 44		
		e	48 11		
		eS	49 04		
		i	21.2		
	KJN	eP	03 47 33		
		eS	50 25		
		e	29		
	KEV	eP	03 46 20		
		e	47 12		
		e	52		
		eS	48 08		
9	NUR	eP	13 06 26		
	SOD	eP	13 05 51		
	KJN	eP	13 06 01		
	H: 12 55 42.1				
	42.3 N, 142.1 E, 23 km				
	Hokkaido, Japan				
9	NUR	ePKP	17 48 13		
	H: 17 29 29.1				
	11.7 S, 166.5 E, 125 km (R)				
	Santa Cruz Islands				

March

				T	A
9	NUR	iP	18 02 39.5 U	1.9	1442.8
		eS	06 30		
	SOD	iP	18 03 46.8 U		
	KJN	iP	18 03 17.3 U	2.0	1088.6
	KEV	iP	18 04 08.2 U	1.0	83.9
		i(PP)	54.9		
		e	06 37		
		eS	09 10		
		eLR	18 12.2		
		H:	17 57 53.7		
			39.4 N, 24.0 E, 18 km (R)		
			Aegean Sea		
9	NUR	eP	18 42 37		
	SOD	eP	18 43 44		
	KJN	eP	18 43 16	1.0	13.9
		H:	18 37 54.4		
			39.3 N, 24.0 E, 33 km (R)		
			Aegean Sea		
9	NUR	eP	18 56 45		
		H:	18 51 56		
			39.2 N, 24.1 E, 33 km (R)		
			Aegean Sea		
9	NUR	eP	19 51 45		
		eS	55 28		
		H:	19 46 58.2		
			39.3 N, 23.9 E, 19 km		
			Aegean Sea		
9	NUR	eP	21 24 52	1.0	16.0
		eS	28 45		
		eLR	21 30.3		
	SOD	iP	21 25 59.6 D		
	KJN	iP	21 25 30.8	1.0	19.7
	KEV	eP	21 26 20		
		H:	21 20 04.9		
			39.2 N, 23.8 E, 13 km		
			Aegean Sea		
9	NUR	iP	21 55 50.6	0.9	26.9
		H:	21 45 15.8		
			52.6 N, 172.2 E, 24 km		
			Rat Islands		
9	NUR	eP	22 23 51		
		H:	22 19 05		
			39.2 N, 24.0 E, 5 km		
			Aegean Sea		
9	NUR	eP	22 40 05	1.0	20.0
	SOD	eP	22 41 07		
			cont.		

March

				T	A
	KJN	eP	22 40 36		
		H:	22 35 16		
			39.2 N, 23.7 E, 31 km		
			Aegean Sea		
10	NUR	eP	00 25 38		
		H:	00 14 57.0		
			46.2 N, 152.9 E, 33 km (R)		
			Kurile Islands		
10	NUR	eP	01 40 51		
		eLR	01 47		
	SOD	iP	01 42 02.8		
	KJN	iP	01 41 30.0	1.0	22.0
	KEV	eP	01 42 24		
		H:	01 36 07		
			39.2 N, 23.9 E, 33 km (R)		
			Aegean Sea		
10	NUR	eP	02 56 01	0.7	7.7
10	NUR	eP	04 07 56	0.9	25.2
		i	58.2		
		i	08 42.7		
		eS	11 17		
		e	12 43		
	SOD	eP	04 06 26		
		i	28.1		
		i	07 23.2		
		iS	08 37.5		
	KJN	eP	04 07 12		
		e	08 15		
		eS	10 04		
	KEV	eP	04 05 55	0.7	18.5
		i	57.6		
		i	06 51.4		
		eS	07 44		
		H:	04 03 32		
			79.7 N, 21.3 E, 33 km (R)		
			Svalbard region		
10	NUR	iP	05 51 13.1 D	0.7	12.9
		eS	56 22		
		eSS	58 00		
		eLR	06 00.5		
	SOD	iP	05 51 56.3		
		i	53 06.6		
	KJN	iP	05 51 30.6		
		eS	56 54		
	KEV	eP	05 52 13		
		H:	05 44 47.8		
			32.8 N, 49.2 E, 33 km (R)		
			Western Iran		

March				March			
		T	A		T	A	
11	NUR ePP	17 26 54		12	NUR ePKP	08 27 49	
	ePS	36 28			KJN ePKP	08 27 41	
	eSS	42 37			H: 08 07 54		
	eSSS	46 17			42.3 S, 174.0 E, 33 km (R)		
	SOD ePKP	17 26 07			South Island, N.Z.		
	KJN ePKP	17 26 03		12	NUR ePKP	09 01 20	1.1 11.9
	KEV eSS	17 45 14			SOD iP KP	09 01 31.3	
	H: 17 07 06				KJN iP KP	09 01 26.5	0.8 8.5
	54.7 S, 0.7 E, 33 km (R)				H: 08 42 28.2		
	Bouvet Island				56.0 S, 27.5 W, 33 km (R)		
11	NUR iP	19 27 04.0 D	0.8 31.7		South Sandwich Islands		
	SOD iP	19 26 28.6 D		12	NUR eP	19 39 43	1.0 20.0
	iPcP	27 13.3			KJN eP	19 39 17	
	KJN iP	19 26 41.2 D	1.0 35.3		H: 19 29 03.0		
	KEV eP	19 26 18			51.9 N, 174.9 E, 43 km		
	H: 19 16 21.6				Near Islands		
	42.5 N, 142.8 E, 37 km			12	NUR iP	19 44 02.8 D	0.9 63.8
	Hokkaido, Japan				KJN eP	19 43 58	
11	NUR iP	21 30 30.7 D	0.8 20.2	12	NUR eP	20 23 55	
	SOD eP	21 29 42			H: 20 19 07		
	KJN eP	21 30 05			38.9 N, 17.7 E, 73 km		
	H: 21 19 56.1				Southern Italy		
	52.6 N, 173.0 E, 35 km (R)			12	SOD eP	23 40 09	
	Near Islands			13	NUR eP	04 13 28	
11	SOD eP	23 00 12			i	31.1	0.8 20.2
11	NUR iP	23 41 45.0 D	0.5 7.9		SOD iP	04 14 35.2	
	KJN eP	23 41 30			KJN iP	04 14 05.7	1.0 25.1
	H: 23 31 02.7				i	17.3	
	45.3 N, 151.3 E, 47 km				H: 04 08 40.5		
	Kurile Islands				39.1 N, 23.9 E, 12 km		
12	NUR eP	00 30 40			Aegean Sea		
	KJN eP	00 30 22		13	NUR iP	04 14 27.9 D	1.1 54.7
12	NUR eP	02 06 02			eS	18 13	
	H: 01 55 09.1				eLR	04 19.5	
	50.4 N, 177.9 E, 40 km				SOD iP	04 15 29.2	
	Rat Islands				KJN iP	04 15 02.8	1.0 39.9
12	NUR eP	07 02 20	1.0 28.0		i	24.6	
	SOD iP	07 01 33.0			KEV eP	04 15 54	
	i	43.5			H: 04 09 38.5		
	KJN eP	07 01 56			39.0 N, 23.4 E, 33 km (R)		
	i	02 06.6	1.1 18.1		Aegean Sea		
	H: 06 51 40			13	KJN eP	04 50 16	
	55.7 N, 155.6 W, 16 km (R)				H: 04 36 43		
	South of Alaska				11.2 S, 111.6 E, 33 km (R)		
					South of Java		

March							March							
					T	A						T	A	
13	NUR	iP	07 44	11.3 D	1.0	56.0	14	NUR	eP	11 48	52			
		i		22.3				KJN	eP	11 48	55			
	SOD	iP	07 43	25.2 D				H:	11 41	53.2				
		i		36.0 U					36.5 N, 68.4 E,	86 km				
	KJN	iP	07 43	47.5 D	1.0	39.9			Hindu Kush					
		i		58.3 U			14	NUR	eP	12 15	19			
	KEV	iP	07 43	08.8 U	1.2	104.7		KJN	eP	12 15	59			
		i		20.0 U	0.8	89.1		H:	12 04	18				
	H: 07 33 23.0									37.5 N, 140.8 E,	73 km			
	53.1 N, 162.2 W, 37 km (R)									Honshu, Japan				
	South of Alaska													
13	NUR	ePKP	14 12	52			14	NUR	iP	16 00	03.2 U	1.5	10227.3	
		i		13 00.8					iS	05	37.1			
	KJN	ePKP	14 12	55					eSS	08	53			
	H: 13 54 33.0								eScS	09	54			
	20.4 S, 177.6 W, 470 km								SOD	iP	16 00	19.3 U		
	Fiji Islands									eS	05	49		
13	NUR	eP	15 36	49				KJN	iP	16 00	03.3 U	1.6	6222.0	
	SOD	eP	15 36	03				KEV	iP	16 00	28.6 U			
	KJN	eP	15 36	24					eS	06	21			
	H: 15 26 03.2								H: 15 53 06.6					
	51.3 N, 178.0 E, 53 km								36.3 N, 70.7 E, 219 km (R)					
	Rat Islands								Hindu Kush					
13	NUR	iP	15 37	41.8	0.8	13.0	14	NUR	eP	16 30	20			
	SOD	iP	15 36	58.1				KJN	eP	16 30	18			
									i		25.6			
13	NUR	eP	15 47	05			14	NUR	eP	16 32	15			
	H: 15 42 16.8								KJN	eP	16 32	23		
	39.1 N, 24.1 E, 34 km													
	Aegean Sea								14	SOD	eP	17 09	43	
13	NUR	eP	16 22	39			15	NUR	eP	02 13	43			
	H: 16 12 30									eS	23	04		
	54.0 N, 160.9 E, 33 km (R)								SOD	eP	02 13	22		
	Near coast of Kamchatka									i		31.6		
								KJN	eP	02 13	28			
									i		30.8	1.5	62.9	
	H: 02 02 08.9								H: 02 02 08.9					
13	NUR	iP	21 07	07.7 U	0.8	18.7		22.4 N, 121.4 E, 33 km (R)						
	SOD	iP	21 06	35.2				Taiwan						
	KJN	iP	21 06	46.6 U	0.9	30.8								
	H: 20 56 06								15	NUR	eP	05 10	42	
	38.7 N, 141.9 E, 33 km (R)									KJN	eP	05 10	29	
	Honshu, Japan								H: 04 59 58.9					
								51.7 N, 174.1 E, 21 km (R)						
								Rat Islands						
14	NUR	eP	05 18	29			15	NUR	eP	05 23	19			
	KJN	eP	05 18	27				H: 05 09 03						
	H: 05 11 22								15.6 S, 74.3 W, 38 km					
	36.8 N, 73.1 E, 163 km								Near coast of Peru					
	Northwestern Kashmir													

March			T	A	March			T	A
	isSS	03 12			19	NUR eP	12 03 50		
SOD	ePKP	06 40 57			SOD	iP	12 03 14.6 D		
	iSKP	44 00.5			KJN	iP	12 03 26.3 U	1.2	33.8
KJN	ePKP	06 40 58	0.9	37.6	KEV	eP	12 03 08		
	epPKP	42 02			H: 11 52 55.8				
	iSKP	44 11.8			40.8 N, 143.0 E, 25 km				
	ePKS	27			Honshu, Japan				
KEV	ePKP	06 40 53			19	NUR eP	16 34 05		
	eSKP	43 57				ePP	37 59		
	e	45 34				e	45 08		
	eSS	59 56				eS	22		
	e	07 01 26				ePS	46 46		
H: 06 22 02.9						eSS	51 43		
19.9 S, 176.1 W, 151 km						eSSS	55 49		
Fiji Islands region						eLR	17 06		
18	NUR ePKP	12 59 35	0.9	10.1	SOD	iP	16 33 58.8 D		
	SOD iP	12 59 47.3 D				ePP	37 47		
	KJN ePKP	12 59 43			KJN	iP	16 33 57.1 D	1.0	46.7
H: 12 40 49.3						i	34 59.6		
55.8 S, 26.7 W, 92 km						ePP	37 40		
South Sandwich Islands						KEV eS	16 45 30		
						ePS	46 14		
						eSS	51 11		
18	NUR ePKP	16 34 08			H: 16 20 51.4				
	e	15			2.0 S, 119.8 E, 46 km				
	eSKP	36 56			Celebes				
KJN	ePKP	16 34 07			19	NUR ePKP	17 55 31		
	eSKP	36 43				eSKP	58 06		
	ePKS	37 32			SOD	iSKP	17 57 45.0		
H: 16 15 56.1						KJN ePKP	17 55 24		
17.7 S, 178.9 W, 507 km						eSKP	57 54		
Fiji Islands region						H: 17 37 18.6			
18	NUR eP	16 37 57			19.7 S, 178.7 W, 617 km				
SOD	eP	16 38 13			Fiji Islands region				
KJN	eP	16 37 56	0.8	9.3	19	NUR eP	23 11 34	0.9	11.8
H: 16 31 02.2						SOD iP	23 11 26.7 D		
36.9 N, 70.7 E, 200 km (R)						e	12 42		
Hindu Kush region						KJN iP	23 11 26.4 U	0.9	101.2
19	KJN eP	04 40 46				e	12 48		
H: 04 35 44.1						e	14 39		
41.4 N, 22.8 E, 12 km						KEV iP	23 11 25.3 D	0.8	27.4
Yugoslavia						H: 22 58 34.9			
19	NUR eP	07 46 02	0.9	30.2	0.0 N, 123.4 E, 173 km				
SOD	eP	07 45 16			Northern Celebes				
KJN	iP	07 45 36.1 U	0.8	11.9	20	NUR iPn	02 46 38.3		
KEV	eP	07 45 01				iSn	47 51.9		
H: 07 35 21.7						cont.			
52.0 N, 174.9 E, 35 km (R)									
Near Islands									

March					March				
			T	A			T	A	
	SOD	iPg	02 44	59.8					
	KJN	iPn	02 45	48.4					
		iSn	46	26.0					
	KEV	ePn	02 45	35.0					
		iSn	46	03.6					
	According to the Finnish seismograph station net:								
	H: 02 44 57								
	67.2 N, 26.0 E								
	Sodankylä, Finland								
21	NUR	eP	01 31	43					
	SOD	iP	01 30	58.6					
	KJN	eP	01 31	18					
	H: 01 20 46.0								
	50.1 N, 178.3 E, 21 km (R)								
	Rat Islands								
21	SOD	eP	09 55	26					
	H: 09 42 41.3								
	11.7 N, 86.4 W, 36 km (R)								
	Nicaragua								
21	NUR	eP	11 21	48					
		i		57.2	1.3			44.3	
		ePP	25	46					
		e		56					
		eSKS	32	31					
		eS	33	18					
		ePKKP	38	54					
		eSS	40	00					
		eLQ	11	51.1					
	SOD	eP	11 21	36					
		i		47.8 U					
		e	23	52					
		iPP	25	47.2					
		ePKKP	38	43					
	KJN	eP	11 21	36	0.7			17.0	
		i		48.0 U	1.5			148.7	
		iPP	25	26.9					
		eSKS	32	20					
	H: 11 08 16.2								
	1.5 S, 126.5 E, 33 km (R)								
	Molucca Sea								
21	NUR	iP	12 52	24.0 D	0.8			64.8	
	SOD	iP	12 51	55.1 D					
	KJN	iP	12 52	04.3 D	0.8			45.0	
	H: 12 41 47.5								
	36.2 N, 136.6 E, 270 km								
	Honshu, Japan								
21	NUR	eP	15 16	34			0.8		20.2
	SOD	eP	15 16	39					
	H: 15 09 14.8								
	40.4 N, 78.4 E, 33 km (R)								
	Southern Sinkiang, China								
21	NUR	eP	19 13	17					
	H: 19 02 32.9								
	45.4 N, 150.6 E, 14 km								
	Kurile Islands								
22	NUR	ePKP	03 03	49					
		i		04 00.8	1.2			85.5	
		ePP		06 22					
		iPKS		07 27.6					
		ePPP		09 26					
		eSKS		11 04					
		eSKKS		13 16					
		eSKSP		16 28					
		ePPS		18 48					
		eSS		24 08					
	SOD	iPKP	03 03	46.2 U					
		e		04 06					
	KJN	iPKP	03 03	53.0	1.2			67.6	
		i		04 16.1					
		ePKS		07 14					
	H: 02 44 47.5								
	15.3 S, 173.4 W, 51 km (R)								
	Tonga Islands								
22	NUR	eP	03 27	12			0.8		14.4
	SOD	eP	03 28	15					
	KJN	eP	03 27	50			0.8		9.3
	H: 03 22 25.9								
	39.1 N, 24.2 E, 33 km (R)								
	Aegean Sea								
22	SOD	eP	03 34	43					
	KJN	iP	03 34	43.4 D	0.9			19.3	
22	NUR	ePKP	06 27	41					
	H: 06 08 05								
	38.1 S, 176.4 E, 118 km								
	North Island, N.Z.								
22	NUR	eP	11 08	48					
	H: 10 58 20								
	56.5 N, 152.8 W, 33 km (R)								
	Kodiak Island region								
22	NUR	iP	11 43	14.1 D					
	SOD	iP	11 42	51.4 D					
	KJN	eP	11 42	59			0.9		22.2

cont.

March		T	A	March		T	A
	KEV iP 11 42 44.2 D	0.7	47.3		KJN eP 10 58 46	0.7	8.1
	H: 11 31 16				H: 10 46 52.9		
	21.7 N, 142.9 E, 309 km				22.3 N, 143.3 E, 179 km		
	Mariana Islands region				Volcano Islands region		
22	NUR eP 14 46 48	0.9	11.8	23	NUR iP 12 55 46.8 D	0.8	36.0
	SOD eP 14 46 12				SOD eP 12 55 01		
	KJN eP 14 46 26				KJN iP 12 55 21.4 D	1.0	39.9
	H: 14 36 11.9				KEV eP 12 54 45		
	52.1 N, 174.1 E, 57 km				H: 12 44 59.6		
	Near Islands				51.2 N, 177.8 E, 45 km		
					Rat Islands		
22	NUR iP 22 13 04.0 D	1.0	32.0	23	NUR eP 13 46 35	1.0	26.0
	ePcP 35				SOD eP 13 45 50		
	SOD iP 22 12 18.4 D				KJN eP 13 46 10	1.0	18.2
	ePcP 13 08				H: 13 35 49.1		
	KJN eP 22 12 38	0.8	12.7		51.3 N, 177.9 E, 49 km		
	H: 22 02 24				Rat Islands		
	51.9 N, 174.9 E, 33 km (R)			23	SOD eP 16 08 46		
	Near Islands				KJN eP 16 08 39		
22	NUR iPKP 23 15 12.0	1.1	66.6		H: 15 56 58.3		
	i 27.2				1.1 N, 29.3 W, 33 km (R)		
	iPP 16 36.1				Mid-Atlantic Ridge		
	e 23 40			23	NUR eP 17 03 18	0.8	10.1
	eS 24 27				SOD iP 17 04 20.7		
	ePKKP 25 21				H: 16 58 14		
	ePS 26 10				36.5 N, 22.4 E, 136 km		
	eSS 32 46				Southern Greece		
	e 56			23	NUR ePKP 18 35 18		
	eSSS 36 02				eLR 19 17.7		
	eLQ 23 45.5				KJN ePKP 18 35 10	1.0	10.3
	eLR 23 52.2				H: 18 16 08.4		
	SOD iPKP 23 15 15.6 U				15.2 S, 173.5 W, 75 km (R)		
	i 31.0				Tonga Islands		
	ePKKP 25 23			24	NUR ePKP 00 13 18		
	H: 22 56 26.5				ePP 15 38		
	31.9 S, 71.5 W, 46 km (R)				ePKS 16 46		
	Central Chile				eSKS 20 30		
23	NUR eP 05 41 42				eSKKS 22 26		
	H: 05 30 54.4				ePSKS 25 42		
	51.4 N, 177.8 E, 30 km				ePPS 27 40		
	Rat Islands				eSS 33 46		
23	NUR eP 10 40 09				e 35 36		
	H: 10 29 23.9				eLR 00 55.0		
	51.3 N, 178.0 E, 48 km				SOD ePKP 00 13 10		
	Rat Islands				KJN ePKP 00 13 09		
23	NUR eP 10 59 02				i 30.2		
	SOD iP 10 58 39.5 D				cont.		
	cont.						

March				March			
		T	A			T	A
	ePKS	16	49				
KEV	ePP 00	14	34				
	eSKS	20	06				
	e	21	32				
	ePS	24	46				
	eSS	31	34				
	eLR 00	51					
	H: 23 54	14.7					
	15.2 S, 173.5 W, 130 km (R)						
	Tonga Islands						
24	NUR eP	01 16	28	0.8	11.5		
	e	17	34				
	SOD eP	01 16	53				
	H: 01 08	07.8					
	25.2 N, 67.7 E, 40 km						
	West Pakistan						
24	SOD iP	01 44	43.6				
	KJN eP	01 44	42				
	H: 01 32	03.3					
	0.6 N, 123.8 E, 272 km						
	Northern Celebes						
24	NUR iP	07 04	09.1 U	0.7	29.7		
	SOD eP	07 05	09				
	e	33					
	KJN eP	07 04	36				
	BCIS:						
	H: 06 59	24					
	40.9 N, 38.4 E						
	Turkey						
24	NUR iP	07 18	15.0 D	0.8	34.6		
	SOD iP	07 17	27.5 D				
	KJN iP	07 17	51.1 D	1.0	21.7		
	KEV iP	07 17	09.5	0.9	25.8		
	H: 07 07	45.4					
	56.6 N, 152.4 W, 20 km (R)						
	Kodiak Island region						
24	NUR iP	07 47	15.0	0.8	11.5		
	SOD eP	07 46	28				
	H: 07 36	46.6					
	56.6 N, 152.0 W, 20 km (R)						
	Kodiak Island region						
24	NUR eS	08 27	05				
	eScS	28	20				
	eSS	31	14				
	SOD iP	08 17	45.5 D				
	i	51.0					
	cont.						
	KJN iP	08 18	09.2 D			0.9	38.6
	i	22.0				1.1	33.4
	KEV eP	08 17	28			0.6	21.8
	e	54					
	eS	25	06				
	eScS	27	18				
	H: 08 08	05.2					
	56.6 N, 152.4 W, 30 km (R)						
	Kodiak Island region						
24	NUR ePKP	08 18	25			0.6	68.8
	i	33.1					
	iSKP	21	28.2				
	e	22	29				
	e	23	43				
	KJN eSKP	08 21	15				
	H: 07 59	39.0					
	16.3 S, 167.9 E, 189 km						
	New Hebrides Islands						
24	NUR eP	13 40	25			0.9	16.8
	i	34.2					
	SOD iP	13 39	37.8 U				
	i	46.8					
	KJN iP	13 40	01.0			1.2	45.6
	i	10.0				1.2	50.7
	KEV eP	13 39	20				
	i	28.3					
	H: 13 30	04.5					
	57.8 N, 148.6 W, 13 km						
	Gulf of Alaska						
24	NUR ePKP	18 43	09				
	KJN ePKP	18 43	08			0.8	14.4
	H: 18 23	59.9					
	25.4 S, 177.3 W, 143 km						
	South of Fiji Islands						
24	SOD eP	19 49	14				
	H: 19 34	42					
	8.8 S, 121.4 E, 154 km						
	Flores Island region						
24	NUR eP	22 54	57			0.8	28.8
	i	58.1					
	eS	23 05	36				
	SOD eP	22 54	46				
	KJN eP	22 54	46				
	i	49.6				0.7	26.7
	KEV eP	22 54	45				
	H: 22 42	09.6					
	8.4 N, 126.6 E, 51 km						
	Mindanao, P.I.						

March						March					
				T	A					T	A
27	KJN	eP	14 30 12			SOD	iP	13 32 14.3 U			
			H: 14 19 42				i	18.0			
			40.4 N, 138.3 E, 25 km (R)				ePcP	33 21			
			Eastern Sea of Japan			KJN	iP	13 32 33.8 U	1.2	116.6	
							i	37.8			
27	NUR	ePKP	15 06 38	1.2	22.3		i	45.0			
	KJN	ePKP	15 06 26				i	33 14.8			
			H: 14 46 54				ePP	34 37			
			32.9 S, 178.5 W, 33 km (R)			KEV	iP	13 31 58.1 U	1.2	77.7	
			South of Kermadec Islands				e	32 11			
							i	56.2			
27	NUR	eP	18 33 23				ePP	34 05			
							eS	39 10			
27	KJN	eP	20 39 01				eSS	43 20			
			H: 20 26 24.4				eLR	13 47.5			
			6.5 N, 123.7 E, 87 km				H: 13 22 57.6				
			Mindanao, P.I.				55.1 N, 162.1 E, 33 km (R)				
							Kamchatka				
28	NUR	ePP	00 14 17			28	NUR	eP	16 48 27		
		eS	21 52				iPKP	51 59.0	1.1	204.3	
		eSS	28 36				ipPKP	52 17.1			
		eSSS	32 22				iPP	53 25.8			
	SOD	eP	00 10 25				epPP	48			
	KJN	eP	00 10 24				ePPP	55 52			
			H: 23 56 57.3				e	56 24			
			2.6 S, 126.2 E, 33 km (R)				e	57 29			
			Ceram Sea				eSKS	58 47			
28	SOD	eP	00 17 17				eSKKS	59 21			
	KJN	eP	00 17 14				e	17 00 16			
			H: 00 03 50.0				eS	01 14			
			2.6 S, 126.0 E, 33 km (R)				iPKKP	02 08.5			
			Ceram Sea				e	05 22			
							e	09 39			
28	NUR	eP	02 59 08			SOD	iPKP	16 52 03.0			
			H: 02 48 21.0				iPP	53 41.2			
			52.0 N, 171.4 E, 55 km (R)				e	57			
			Near Islands				eSKS	58 54			
							e	17 00 29			
28	NUR	eP	08 52 21	0.6	7.1		ePKKP	01 57			
	KJN	iP	08 52 02.9 D	0.6	8.1		e	02 42			
			H: 08 41 11				ePS	03 32			
			32.3 N, 131.4 E, 33 km (R)				eSKKP	05 43			
			Kyushu, Japan				eSS	10 16			
						KJN	iPKP	16 52 02.8	1.2	253.5	
28	NUR	iP	13 33 01.0 U	1.3	254.3		ipPKP	22.8			
		iPcP	47.1				iPP	53 36.9			
		ePP	35 20				ipPP	57.8			
		ePPP	36 46				iPKS	55 37.8			
		eS	41 06				ePPP	56 19			
		ePS	36				iSKS	58 55.8			
		eSS	45 30				e	59 29			
		eLQ	13 49.5				i	17 00 29.3			
		eLR	13 51.0				iPKKP	02 00.8			

cont.

cont.

March				March					
			T	A			T	A	
	ePS	03 31			29	NUR	iP	09 39 21.0	
	e	05 00				KJN	iP	09 38 55.0	0.8 4.2
	eSKKP	43				H: 09 30 42			
KEV	eP	16 48 54				56.3 N, 126.3 E, 33 km (R)			
	ePKP	52 03	1.4	163.4		Eastern Russia			
	ipPKP	24.0			29	NUR	iP	10 58 29.3 U	1.6 732.8
	i	48.0					i	59 14.3	
	ePP	53 43					iPP	11 00 58.2	
	epPP	54 13					ePPP	02 34	
	eSKS	58 56					e	03 30	
	e	17 00 30					eS	07 22	
	eS	01 34					ePS	35	
	e	02 36					e	08 41	
	ePS	03 28					eSS	11 44	
	epPS	04 08					eSSS	14 53	
	ePPS	05 10					eP'P'	26 52	
	eSS	10 24					e	27 13	
	H: 16 33 14.6						eLR	11 20	
	32.4 S, 71.2 W, 61 km					SOD	iP	10 57 55.3 U	
	Central Chile						ePP	11 00 12	
28	NUR	eP	21 52 35				eS	06 18	
	SOD	eP	21 51 50				ePS	40	
	KJN	iP	21 52 09.8	0.7	8.7		e	54	
	H: 21 42 17.6						e	07 08	
	52.4 N, 159.3 E, 33 km (R)						eScS	42	
	Kamchatka					KJN	iP	10 58 07.7 U	1.4 1102.5
28	NUR	eP	22 27 21	1.0	9.6		e	59 21	
	KJN	eP	22 26 56				iPP	11 00 27.3	
	H: 22 16 34.8						ePcS	02 33	
	52.9 N, 169.6 W, 40 km						iS	06 38.8	
	Fox Islands						ePS	51	
29	NUR	iP	00 18 39.0	0.9	19.3		iPPS	07 01.3	
	SOD	eP	00 18 18				eScS	56	
	KJN	eP	00 18 25				eP'P'	27 02	
	KEV	eP	00 18 11			KEV	iP	10 57 44.3 U	1.6 455.2
	H: 00 05 36.3						iPP	59 47.2	
	14.7 N, 146.6 E, 61 km						e	11 00 45	
	Mariana Islands						ePS	06 13	
							eSS	10 17	
							eSSS	13 14	
							eLR	11 16.0	
							H: 10 47 37.6		
							40.8 N, 142.8 E, 33 km (R)		
							Honshu, Japan		
29	NUR	eP	05 07 11			29	NUR	eP	11 06 39
	H: 04 56 39						SOD	eP	11 06 05
	52.7 N, 171.8 E, 41 km						KJN	iP	11 06 16.8
	Near Islands								1.0 22.2
29	KJN	ePKP	07 24 19			29	NUR	iP	14 43 21.0
	H: 07 06 07						eS	51 50	1.1 26.2
	20.4 S, 178.5 W, 552 km								cont.
	Fiji Islands region								

March				March			
			T	A		T	A
	eSS	56	30			eP'P'	03 06 09
	eSSS	59	23			i	24.8
	eLR	15	04.1			KEV iP	02 36 59.0 D
SOD	eP	14	42 36			ePP	39 12
KJN	iP	14	42 55.8	1.1	19.0	e	44 46
KEV	eP	14	42 21			eS	45 07
	ePP	44	31			eP'P'	03 06 41
	eS	50	18			H:	02 27 07.2
	eLR	14	59.5			50.6 N, 177.9 E, 51 km	
	H:	14	32 41.2			Rat Islands	
	52.2 N, 175.4 E, 34 km						
	Rat Islands						
30	NUR	iPKP	00 16 41.3	1.0	231.8	30	NUR eP 02 57 28
		ipPKP	17 49.0				KJN eP 02 57 04
		eSKP	20 01			30	NUR eP 03 04 09
SOD	ePKP	00 16 24				SOD	iP 03 03 24.2
	eSKP	19 45				e	33
	e	58				KJN	iP 03 03 43.8 1.2 23.2
KJN	iPKP	00 16 30.5				KEV	eP 03 03 19
	epPKP	17 24				H:	02 53 15.5
	eSKP	19 44				50.4 N, 177.5 E, 33 km (R)	
	ePKS	20 14				Rat Islands	
KEV	ePKP	00 16 28	0.6	13.1	30	NUR eP 03 14 48	
	H:	23 57 33.5				SOD eP 03 14 14	
	28.7 S, 178.4 W, 228 km (R)					KJN eP 03 14 33 1.2 21.6	
	Kermadec Islands					KEV eP 03 13 33	
30	NUR	ePKP	00 40 21			30	SOD eP 03 21 16
	KJN	ePKP	00 40 14			H:	03 11 02.2
	H:	00 21 00.2				50.7 N, 178.3 E, 33 km (R)	
	20.0 S, 173.9 W, 33 km (R)					Rat Islands	
	Tonga Islands						
30	NUR	iP	02 37 57.8 D 1.4 1764.0			30	NUR eP 03 36 01
		ePP	40 39			e	25
		eS	46 55			i	39.2
		eScS	47 56			SOD eP	03 35 01
		e	50 35			e	52
		eP'P'	03 06 23			i	36 11.8
SOD	iP	02 37 13.3 D				i	59.1
	ePP	39 25				KJN eP	03 35 37
	eS	45 30				i	36 13.8
	e	46 08				KEV e	03 35 35
	eScS	47 08				30	NUR eP 03 40 41 1.0 29.4
	eSS	49 35				e	41 08
	eP'P'	03 06 23				SOD	iP 03 39 56.8
	i	43.4				KJN	iP 03 40 16.5 1.2 54.8
KJN	iP	02 37 32.9 D 1.3 1489.2				30	NUR iP 04 43 42.7 D 0.9 31.7
	ePP	39 58				i	52.4
	eS	46 08				SOD	iP 04 42 58.3 U
	iScS	47 27.3				e	43 07
	eSS	50 00				cont.	cont.

March

March

					T	A
	KJN	iP	04 43	17.9	1.0	34.4
		e		27		
	KEV	eP	04 42	39		
	H:		04 32	50.0		
	50.4 N, 177.6 E, 35 km (R)					
	Rat Islands					
30	NUR	iP	06 35	56.7	0.8	27.2
	SOD	iP	06 35	12.2	D	
	KJN	iP	06 35	31.7	D	0.8 14.1
	KEV	eP	06 34	56	0.7	10.8
	H:		06 25	01.1		
	50.1 N, 177.3 E, 30 km (R)					
	Rat Islands					
30	NUR	eP	07 21	49	1.1	34.9
	SOD	eP	07 21	05		
	KJN	eP	07 21	24	1.1	15.0
	H:		07 10	53.4		
	50.2 N, 177.8 E, 35 km (R)					
	Rat Islands					
30	NUR	eP	07 51	31		
	SOD	eP	07 50	47		
	KJN	eP	07 51	06	1.0	22.2
	H:		07 40	37.5		
	50.3 N, 177.4 E, 32 km (R)					
	Rat Islands					
30	NUR	iP	12 20	58.4	0.6	16.6
	SOD	iP	12 20	30.1		
		e		22 53		
	KJN	eP	12 20	37		
		i		38.8	0.6	39.5
		esP		22 29		
		ePP		59		
	KEV	eP	12 20	19		
		i		22.1	1.0	43.1
	H:		12 10	29.5		
	35.8 N, 135.2 E, 341 km					
	Southern Honshu, Japan					
30	KJN	eP	13 21	33	0.6	15.8
30	NUR	iP	16 10	25.0	0.9	92.9
	SOD	iP	16 09	51.2		
		i		10 04.0		
	KJN	iP	16 10	02.8	U	1.1 170.9
		i		29.7		
	KEV	iP	16 09	40.0	D	0.9 45.4
		i		53.8		
	H:		15 59	34.1		
	41.0 N, 142.7 E, 32 km					
	Honshu, Japan					

					T	A
30	NUR	iP	16 19	46.5	0.7	21.1
	SOD	eP	16 18	56		
	KJN	eP	16 19	22	0.8	13.6
	KEV	eP	16 18	42		
	H:		16 09	02.4		
	53.7 N, 165.6 W, 30 km (R)					
	Fox Islands					
30	NUR	eP	16 21	18		
	SOD	eP	16 20	32		
	KJN	eP	16 20	54		
	KEV	eP	16 20	11		
	H:		16 10	26.3		
	51.6 N, 170.3 W, 48 km					
	Fox Islands					
30	NUR	eP	17 29	41		
	SOD	eP	17 29	05		
	KJN	eP	17 29	19	0.7	8.1
	KEV	eP	17 28	54		
	H:		17 18	56		
	43.3 N, 145.7 E, 33 km (R)					
	Hokkaido, Japan					
30	NUR	iP	19 11	58.3	U	0.8 23.5
	SOD	iP	19 11	15.6	U	
	KJN	eP	19 11	33	1.2	18.6
	KEV	eP	19 11	01		
	H:		19 01	27.6		
	50.2 N, 159.4 E, 33 km (R)					
	Kurile Islands					
30	NUR	eP	22 39	38		
	KJN	eP	22 39	14		
31	SOD	eP	00 43	37		
	KJN	eP	00 43	56		
	H:		00 33	37		
	51.3 N, 176.0 E, 35 km (R)					
	Rat Islands					
31	NUR	iP	08 32	14.0		
	SOD	eP	08 31	28		
	KJN	iP	08 31	49.4		
	H:		08 21	28.5		
	51.4 N, 178.3 E, 44 km					
	Rat Islands					
31	NUR	iP	09 52	19.0	U	0.9 1061.8
		eS		56 17		
		iPcS		59 48.2		
		iScS	10 03	31.0		
	SOD	iP	09 53	24.1	U	

March

March

				T	A
KJN	iP	09 52	55.2 U	1.3	956.8
	epP	53 16			
	e	54 00			
KEV	iP	09 53	45.0 U	1.1	535.9
	e	54 23			
	ePPP	55 00			
	e	56 18			
	iS	58 50			
	iScS	10 04 12			
	eLQ	10 01			
	eLR	10 02.5			
H: 09 47 30.7					
38.6 N, 22.4 E, 78 km (R)					
Greece					
31	SOD	eP	10 19 40		
31	NUR	eP	10 26 03		
	KJN	eP	10 26 05		
31	NUR	iP	10 57 03.2 U	1.2	57.0
	i		39.4		
	SOD	iP	10 56 19.1 U		
	KJN	iP	10 56 38.6 U	1.2	38.9
	KEV	eP	10 56 03	1.5	91.2
H: 10 46 08.6					
50.3 N, 178.2 E, 30 km					
Rat Islands					
31	NUR	eP	12 06 01		
	KJN	iP	12 06 39.3		
H: 12 01 10.3					
38.3 N, 22.0 E, 74 km					
Greece					
31	NUR	eP	13 34 20		
H: 13 23 25.5					
50.2 N, 177.9 E, 35 km					
Rat Islands					
31	NUR	eP	15 30 01		
	SOD	eP	15 30 55		
	KJN	eP	15 30 34	0.9	12.5
31	NUR	iP	17 20 05.3 U	1.0	46.0
	SOD	iP	17 19 20.1		
	KJN	iP	17 19 40.0 D	1.2	37.2
H: 17 09 24.4					
51.7 N, 174.6 E, 39 km (R)					
Near Islands					

				T	A
31	NUR	eP	19 48 57		
	KJN	eP	19 48 31		
H: 19 38 08.2					
50.5 N, 177.7 E, 47 km					
Rat Islands					
31	NUR	eP	20 13 14		
	eS		16 58		
	e		17 19		
	eLQ		20 18.0		
	eLR		20 19.0		
	SOD	eP	20 14 17		
	KJN	eP	20 13 44		
H: 20 08 26					
39.4 N, 24.1 E, 33 km (R)					
Aegean Sea					
31	NUR	eP	22 43 24	0.8	21.6
	i		27.0		
	i		34.0		
	SOD	iP	22 42 42.4		
	KJN	iP	22 43 02.1	1.1	25.0
	e		08		
H: 22 32 31.9					
50.4 N, 177.5 E, 30 km (R)					
Rat Islands					
31	NUR	eP	23 42 17		
H: 23 31 42.9					
52.4 N, 171.3 E, 30 km (R)					
Near Islands					
October 15, 1965					
Urmas Luosto					
Aili Huovila					

April				April			
	T	A		T	A		
1	NUR eP	01 17 03		2	NUR eP	13 16 30	
	H:	01 11 36.4			SOD eP	13 16 18	
		36.0 N, 35.8 E, 42 km			KJN iP	13 16 19.2 U	0.8 7.8
		Jordan-Syria region			H:	13 04 01.8	
1	KJN eP	03 15 37				12.5 N, 123.5 E, 33 km (R)	
						Luzon, P.I.	
1	NUR iP	07 21 14.1 D	0.8 72.0	2	NUR eP	15 55 40	
	ipP	38.0			eS	57 49	
	SOD iP	07 21 02.2			e	58 43	
	KJN iP	07 21 02.9 D	0.9 202.4		SOD eP	15 55 21	
	ipP	25.6			iS	57 14.1	
	KEV iP	07 20 59.4 U	0.9 21.3		i	46.0	
	H:	07 08 38.3			KJN eP	15 55 35	
		9.9 N, 125.8 E, 91 km			eS	57 37	
		Mindanao, P.I.			e	58 28	
1	SOD iP	12 36 54.7 U			H:	15 52 48	
	KJN eP	12 37 01				65.7 N, 0.2 E, 33 km (R)	
	H:	12 24 50.8				Norwegian Sea	
		22.2 N, 146.7 E, 94 km		2	NUR iP	16 02 46.8 U	0.8 54.7
		North Pacific Ocean			e	52	
1	SOD iP	13 38 46.7 U			iSKP	05 49.0	
	KJN iP	13 38 55.9	1.0 17.1		ePKS	06 27	
	H:	13 27 30.8			SOD ePKP	16 02 23	
		31.2 N, 142.0 E, 9 km			iSKP	05 33.1	
		South of Honshu, Japan			KJN ePKP	16 02 36	
1	NUR eP	18 02 47	0.9 16.8		e	42	
	KJN eP	18 02 20	0.8 8.5		eSKP	05 39	
	H:	17 52 40.6			H:	15 44 01.0	
		54.8 N, 161.8 E, 25 km (R)				27.1 S, 179.2 W, 382 km	
		Kamchatka				Kermadec Islands	
1	NUR eSKSP	21 54 26		2	NUR eP	16 39 15	1.0 16.0
	eSS	22 03 52			SOD eP	16 38 31	
	H:	21 20 43.8			i	39.0	
		50.0 S, 114.1 W, 33 km (R)			KJN eP	16 38 51	
		Easter Island Cordillera			i	58.0	
1	SOD eP	22 30 48			H:	16 28 21.7	
	KJN eP	22 30 55				50.4 N, 177.4 E, 35 km	
	H:	22 19 33				Rat Islands	
		31.2 N, 141.9 E, 33 km (R)		2	NUR eP	19 07 22	
		South of Honshu, Japan			H:	18 56 42.0	
1	SOD iP	22 35 57.3				44.3 N, 147.8 E, 33 km (R)	
	KJN eP	22 36 06	0.9 4.9			Kurile Islands	
	H:	22 24 48		2	NUR eP	22 15 27	0.7 9.0
		31.5 N, 141.9 E, 59 km					
		South of Honshu, Japan		2	NUR iP	22 33 07.0	0.7 12.9
					SOD iP	22 32 41.2	
					KJN eP	22 32 48	0.7 12.4

cont.

April

April

				T	A					T	A
	KEV	iP	22 32 33.7 D	0.7	15.1	3	NUR	eP	06 05 49		
			H: 22 22 11					SOD	iP	06 05 53.0	
			30.0 N, 138.1 E, 450 km					KJN	iP	06 05 47.1 D	0.8 11.9
			South of Honshu, Japan							H: 05 53 07	
2	NUR	iP	22 33 42.0 D	0.8	67.7					3.9 S, 102.3 E, 51 km	
		ePP	34 51							Southern Sumatra	
		e	37 14			3	NUR	ePKP	07 02 35		
		e(S)	39 34					KJN	ePKP	07 02 27	
		eLQ	22 43.0							H: 06 44 01	
	SOD	iP	22 34 03.1 U							10.7 S, 166.0 E, 194 km	
		ePP	35 28							Santa Cruz Islands	
		iPcP	36 22.0			3	NUR	eP	08 02 05		
	KJN	iP	22 33 44.3 D	1.0	87.0					H: 07 51 46	
		i	34 05.2							57.3 N, 152.4 W, 33 km (R)	
		iPP	55.1							Kodiak Island region	
	KEV	eP	22 34 14			3	NUR	ePKP	08 59 02		
		ePP	35 42							H: 08 39 40.8	
		e	36 04							26.8 S, 176.4 W, 109 km	
		ePPP	13							South of Fiji Islands	
			H: 22 26 47.3			3	SOD	eP	09 21 49		
			36.8 N, 66.6 E, 38 km								
			Hindu Kush region								
3	NUR	iP	02 48 38.9	0.7	10.3	3	NUR	eP	11 33 48		
		eP	02 47 54					ePP	37 22		
	KJN	iP	02 48 14.1	0.7	9.9			ePPP	39 30		
	KEV	eP	02 47 38					eSKS	44 22		
			H: 02 37 56.1					eS	45 04		
			51.6 N, 175.8 E, 38 km					eSS	50 24		
			Rat Islands					eLR	12 04		
							SOD	eP	11 33 31		
							KEV	eP	11 33 26		
3	NUR	iP	03 09 16.0	0.8	10.1			ePP	36 44		
		eP	03 09 13					eS	43 55		
	KJN	iP	03 09 05.2 D	0.7	8.3			eSS	49 24		
	KEV	eP	03 09 15	0.9	11.5			eLR	12 01.5		
			H: 03 01 56.9							H: 11 20 43.5	
			44.0 N, 82.9 E, 10 km							16.0 N, 97.9 W, 16 km	
			Northern Sinkiang, China							Oaxaca, Mexico	
3	NUR	ePKP	03 48 56			3	NUR	eP	11 42 12		
	KJN	ePKP	03 48 51					ePP	45 42		
			H: 03 29 29					eSKS	52 46		
			26.4 S, 176.4 W, 33 km (R)					SOD	eP	11 41 56	
			South of Fiji Islands					i	42 04.6		
								ePP	45 18		
3	NUR	eP	04 02 08				KEV	eP	11 41 57		
	KJN	eP	04 02 06					eS	52 28		
			H: 03 54 52.3					eSS	58 12		
			37.7 N, 73.1 E, 33 km (R)							H: 11 29 13.0	
			Tadzhik SSR							16.1 N, 97.8 W, 45 km	
										Oaxaca, Mexico	

April

April

			T	A	
4	NUR ePKP	16 52 15			
	KJN ePKP	16 52 13			
	H:	16 32 41.9			
		26.9 S, 176.0 W, 12 km			
		South of Tonga Islands			
4	NUR eP	18 20 20			
	KJN eP	18 20 12			
4	KJN eP	18 43 17			
4	KJN eP	20 23 24			
	epP	24 03			
	H:	20 09 41.1			
		8.8 S, 74.5 W, 143 km (R)			
		Peru-Brazil border			
4	NUR iP	22 18 19.0 D	0.7	15.5	
	KJN iP	22 18 11.7 D	0.8	8.5	
5	NUR eP	02 24 03	0.5	8.1	
	SOD iP	02 23 30.5 D			
	KJN iP	02 23 41.9 D	0.6	20.2	
	H:	02 13 13.8			
		40.2 N, 140.7 E, 48 km			
		Honshu, Japan			
5	SOD eP	02 58 17			
5	NUR iP	03 17 55.0	0.6	217.6	
	e	18 04			
	iS	22 01.6			
	e	23 41			
	e	24 46			
	eLQ	03 23.3			
	eLR	03 24.0			
	SOD iP	03 18 59.7 U			
	eS	24 08			
	eSS	26 09			
	eScS	29 48			
	KJN iP	03 18 30.5 U	0.9	18.2	
	eS	23 13			
	e	30			
	ePcS	25 36			
	KEV iP	03 19 21.0 U	1.0	39.2	
	e	30			
	ePP	20 16			
	eS	24 31			
	eSS	26 20			
	eLQ	03 27.0			
	eLR	03 28.2			
	H:	03 12 54.2			
		37.7 N, 21.8 E, 34 km			
		Southern Greece			

			T	A	
5	NUR eP	03 48 46			
	KJN eP	03 48 21			
	H:	03 38 04.9			
		51.6 N, 174.2 E, 44 km			
		Near Islands			
5	NUR eP	06 12 54			
5	NUR ePS	06 49 53			
	eSS	55 58			
	eLQ	07 09.0			
	eLR	07 13.5			
	KEV ePS	06 48 28			
	eLR	07 11.4			
	H:	06 21 34.2			
		3.2 S, 148.4 E, 10 km			
		Bismarck Sea			
5	NUR iP	14 02 55.4 U	1.0	300.0	
	epP	03 16			
	iPP	05 12.7			
	eS	11 38			
	eSS	16 11			
	eSSS	19 16			
	eLR	14 23.0			
	SOD iP	14 02 16.8 U			
	ePP	04 23			
	KJN iP	14 02 31.7 U	0.8	165.6	
	ipP	49.3			
	ePP	04 45			
	KEV iP	14 02 04.2 D	0.8	94.5	
	ipP	27.0			
	ePPP	05 46			
	eS	09 56			
	eLR	14 20.5			
	H:	13 52 13.4			
		44.6 N, 151.1 E, 81 km (R)			
		Kurile Islands			
5	NUR eP	14 06 00			
	e	07 53			
	SOD eP	14 05 18			
5	NUR ePKP	14 53 06			
	KJN ePKP	14 52 59			
	H:	14 33 39.0			
		26.7 S, 176.3 W, 45 km			
		South of Fiji Islands			
5	NUR eP	17 06 23	0.9	22.2	
	e	36			
	H:	16 55 51.3			
		52.8 N, 172.4 E, 42 km			
		Near Islands			

April				April			
		T	A			T	A
5	NUR eP	17 57 14					
	H:	17 46 23.7					
		51.4 N, 179.9 W, 20 km (R)					
		Andreanof Islands					
5	NUR eP	18 14 40	0.8	11.5	SOD iP	09 55 32.6 U	
	KJN eP	18 14 15			i	58 39.0	
	H:	18 03 51.6			KJN eP	09 55 30	1.5 214.5
		51.2 N, 178.6 E, 36 km (R)			ePP	59 08	
		Rat Islands			eS	10 06 26	
					KEV eP	09 55 33	
					H:	09 42 28.2	
						0.5 S, 119.9 E, 33 km (R)	
						Northern Celebes	
6	NUR eP	03 04 12			6	KJN eSKP	12 23 06
	KJN eP	03 04 01	1.0	6.8		H:	12 02 17
							21.0 S, 178.7 W, 554 km
							Fiji Islands region
6	NUR iP	03 29 39.6 U	0.9	60.5	6	KJN eP	12 44 56
	i	48.0				H:	12 34 36
	SOD iP	03 28 54.3					50.8 N, 180.0 E, 33 km (R)
	KJN iP	03 29 13.6 U	1.0	28.5			Rat Islands
	i	25.8					
	KEV eP	03 28 39			6	NUR iP	13 29 50.0
	H:	03 19 01.7				i	30 05.5
		52.2 N, 173.3 E, 30 km (R)				SOD eP	13 29 04
		Near Islands				KJN iP	13 29 24.9 U
						H:	13 19 02.2
6	NUR iP	05 43 05.9 U	0.9	210.0			51.3 N, 179.8 W, 46 km
	ePP	45 40					Andreanof Islands
	eLR	06 05.5			6	NUR iP	13 41 39.3
	SOD iP	05 42 35.2 U				SOD eP	13 40 54
	KJN iP	05 42 45.6 U	0.8	254.7		KJN eP	13 41 14
	i	43 28.8				H:	13 30 45.1
	iPP	45 12.5					50.2 N, 178.3 E, 40 km
	e	40					Rat Islands
	KEV iP	05 42 26.0 U	0.8	62.0	6	NUR eP	14 27 53
	H:	05 31 59.7				H:	14 17 00.0
		36.1 N, 139.6 E, 69 km					50.3 N, 178.7 E, 35 km
		Honshu, Japan					Rat Islands
6	KJN eP	08 20 57			6	NUR ePKP	17 46 14
	H:	08 10 41				H:	17 26 46.7
		41.8 N, 141.5 E, 86 km					27.1 S, 176.3 W, 38 km
		Hokkaido, Japan					Kermadec Islands
6	SOD eP	08 47 41			6	NUR eP	18 54 41
						KJN eP	18 54 17
						H:	18 44 00
							53.7 N, 160.7 W, 33 km (R)
							South of Alaska
6	NUR eP	09 55 41	1.2	31.4	6	NUR eP	22 01 04
	ePP	59 22				H:	21 50 21.9
	ePPP	10 01 22					45.4 N, 149.9 E, 16 km
	e	02 38					Kurile Islands
	eS	06 40					
	ePS	08 08					
	eSS	13 06					
	ePSPS	38					

cont.



April						April			
				T	A				
						T			A
7	NUR	eP	02 22 06						
	KJN	iP	02 21 44.7	0.5	18.8				
7	NUR	eP	04 21 44						
	H: 04 16 47								
	37.7 N, 22.5 E, 70 km								
	Southern Greece								
7	NUR	eP	15 51 15						
	KJN	eP	15 50 54						
	H: 15 40 25								
	39.7 N, 140.8 E, 79 km								
	Honshu, Japan								
7	NUR	ePKP	18 07 08						
		i	17.9	0.7	14.2				
		i	19.5	0.7	20.6				
		iSKP	09 56.8						
	SOD	ePKP	18 07 05						
		eSKP	09 37						
	KJN	iPKP	18 07 10.7	0.8	32.3				
		iSKP	09 46.1						
		ePKS	10 40						
	H: 17 48 59.7								
	21.0 S, 178.8 W, 568 km								
	Fiji Islands region								
8	NUR	eP	02 08 48	1.0	18.0				
	SOD	iP	02 08 04.0 U						
	KJN	eP	02 08 24						
	H: 01 57 53.8								
	50.2 N, 178.5 E, 29 km (R)								
	Rat Islands								
8	NUR	ePKP	13 09 41	1.0	24.0				
		eSKP	12 19						
	SOD	eSKP	13 11 57						
	KJN	ePKP	13 09 33						
		iSKP	12 06.9						
		ePKS	59						
	H: 12 51 27.8								
	17.6 S, 178.7 W, 575 km (R)								
	Fiji Islands region								
8	NUR	iP	13 54 28.8 U	1.0	340.0				
		i	33.0						
		ePP	56 41						
		ePPP	58 36						
		eS	14 03 10						
		e	04 06						
		eScS	25						
		eP'P'	23 32						
		eLR	14 15.0						
	cont.								
	SOD	iP	13 53 43.7 D						
		i	47.2						
		i	54 24.8						
		ePP	55 52						
		eS	14 01 49						
	KJN	iP	13 54 03.2 U	1.0	14.3				
		iPcS	58 35.7						
		eS	14 02 26						
		eP'P'	23 27						
	KEV	iP	13 53 31.8 U	1.0	74.5				
		i	39.0						
		ePP	55 22						
		eS	14 01 22						
		eLR	14 10.5						
	H: 13 43 52.8								
	52.2 N, 173.5 E, 46 km (R)								
	Near Islands								
8	NUR	eP	14 21 19	0.8	14.4				
	KJN	eP	14 21 07	0.9	6.7				
8	NUR	iP	14 41 49.3 U	1.0	74.0				
	SOD	iP	14 41 04.2						
	KJN	iP	14 41 23.7 U	1.2	54.1				
	KEV	eP	14 40 54						
	H: 14 31 10.9								
	52.0 N, 173.4 E, 34 km (R)								
	Near Islands								
8	NUR	iP	14 58 19.8 D	0.8	20.2				
	KJN	iP	14 58 08.3						
8	NUR	eP	15 55 01	0.9	20.2				
	SOD	eP	15 54 16						
	KJN	eP	15 54 35						
	H: 15 44 08.5								
	50.5 N, 177.5 E, 32 km								
	Rat Islands								
8	NUR	iP	17 54 41.5	0.8	18.7				
	KJN	iP	17 54 16.2	0.7	4.8				
	H: 17 44 04.6								
	52.1 N, 173.1 E, 41 km								
	Near Islands								
8	NUR	eP	19 09 48	0.9	16.8				
	KJN	eP	19 09 22						
	H: 18 59 16.7								
	53.0 N, 171.6 E, 33 km (R)								
	Near Islands								
9	NUR	iP	01 22 15.4	0.8	15.8				
	SOD	eP	01 22 27						
	cont.								



April

April

				T	A					T	A
	KJN	iP	01 22 12.9 D	0.5	13.4	9	NUR	eP	11 15 25	1.0	18.0
	H:		01 15 15				KJN	iP	11 15 13.1	0.8	14.4
			38.0 N, 72.9 E, 150 km								
			Tadzhik SSR			9	NUR	iP	14 43 09.0 D	0.8	36.0
9	NUR	eP	01 39 08	0.7	7.7		SOD	iP	14 42 41.2 D		
	SOD	iP	01 38 20.3				KJN	iP	14 42 50.2 D	0.7	43.6
	KJN	eP	01 38 41				KEV	eP	14 42 33	0.8	15.5
	H:		01 28 48.2				H:		14 32 21.1		
			57.6 N, 151.4 W, 33 km (R)						33.5 N, 137.6 E, 332 km		
			Kodiak Island region						Honshu, Japan		
9	NUR	eP	03 13 37	0.5	6.6	9	NUR	eP	17 43 50		
	SOD	eP	03 12 49				SOD	eP	17 43 02		
	KJN	eP	03 13 11				KJN	eP	17 43 25	1.2	16.9
	KEV	eP	03 12 39				H:		17 33 45.3		
	H:		03 02 53.0						59.6 N, 144.9 W, 52 km		
			51.7 N, 176.3 E, 33 km (R)						Gulf of Alaska		
			Rat Islands			9	NUR	eP	23 06 22		
9	NUR	eP	05 59 36	1.0	14.0		eSKS		17 18		
	SOD	eP	05 58 51				ePS		19 34		
	H:		05 49 02.0				eSS		25 18		
			52.3 N, 171.9 E, 38 km				SOD	eP	23 06 11		
			Near Islands				e		09 28		
							ePP		10 09		
9	NUR	eP	08 40 13				KJN	eP	23 06 10		
	H:		08 28 54				KEV	eP	23 06 06		
			35.4 N, 136.0 E, 33 km (R)				ePS		19 26		
			Southern Honshu, Japan				eSS		23 46		
							e		32 52		
							eLR		23 40		
9	NUR	iPKP	11 05 09.7 U	1.4	225.5		H:		22 52 24.3		
	i		06 27.0						4.2 S, 134.1 E, 33 km (R)		
	e		07 44						West New Guinea region		
	ePP		08 41			9	NUR	eP	23 10 17	1.0	18.0
	iSKP		53.5				KJN	eP	23 09 52		
	eSKKS		15 28				H:		22 59 40.1		
	eSKSP		19 04						51.9 N, 177.6 E, 54 km		
	eSS		27 36						Rat Islands		
	SOD	ePKP	11 04 51			10	NUR	eP	00 01 11		
	e		05 52				SOD	eP	00 00 55		
	ePP		07 57				KJN	eP	00 01 00	1.0	10.3
	KJN	iPKP	11 04 58.3 U	1.5	406.1		H:		23 47 12.5		
	iPP		08 13.7						4.0 S, 134.2 E, 33 km (R)		
	eSKP		43						West New Guinea region		
	KEV	ePKP	11 04 45			10	NUR	iP	00 02 25.7 U	1.0	580.0
	ePP		07 53				e		06 10		
	ePKS		08 26				iS		49		
	eSKSP		17 52				eScS		13 19		
	e		18 50				e		46		
	ePPS		20 20				eLR		00 07.0		
	H:		10 45 29.4								
			32.6 S, 178.3 W, 52 km								
			South of Kermadec Islands								

cont.

April				April			
			T	A		T	A
SOD	iP	00 03 27.4			10	NUR	iP 17 05 28.3 U 1.1 195.2
	e	07 21				i	34.9
	iS	08 41.0				ePcP	06 05
KJN	iP	00 02 58.7 U	1.0	226.9		eSS	18 10
	ePcP	06 08			SOD	iP	17 04 42.2 U
	eS	07 47				iPcP	05 37.1
	eScS	13 36			KJN	iP	17 05 02.7 U
KEV	iP	00 03 48.8 U	0.8	152.3	KEV	iP	17 04 26.4 U 1.2 156.2
	eS	09 22				H:	16 54 55.8
	H:	23 57 03.2					53.1 N, 170.9 E, 8 km
		35.1 N, 24.3 E, 51 km					Near Islands
		Crete					
10	NUR	eP 00 25 25	0.9	33.6	10	NUR	iP 21 28 29.7 U 0.8 24.5
	i	26.2 U				SOD	iP 21 28 43.6
SOD	iP	00 26 26.5				KJN	iP 21 28 28.5 0.8 23.5
	i	41.2				KEV	eP 21 28 52 0.9 14.8
KJN	iP	00 25 57.3				H:	21 21 27.3
	eS	30 42					37.3 N, 71.9 E, 136 km
KEV	iP	00 26 47.9 U					Afghanistan-USSR border
	H:	00 20 01.1					
		35.0 N, 24.2 E, 59 km					
		Crete			10	NUR	ePKP 22 50 52
10	NUR	iP 01 33 05.3	0.8	20.2		i	51 03.2 1.1 100.0
	SOD	eP 01 32 19				iPP	53 42.0
	KJN	eP 01 32 39				iSKP	46.0
	H:	01 22 30.6				iPKS	54 32.9
		52.8 N, 172.0 E, 13 km				epPKS	56 42
		Near Islands				eSKS	57 25
						e	59 38
10	NUR	eP 10 28 06				ePPS	23 05 54
	KJN	eP 10 28 01				eSS	10 34
10	NUR	eP 11 36 40	1.0	10.0	SOD	iPKP	22 50 50.8
10	NUR	iP 14 18 38.9	1.0	66.0		iPP	53 22.6
	i	43.5				iSKP	29.0
	ePP	20 03				ePKS	54 10
	eS	24 28				e	59 03
	eLQ	14 28			KJN	ePKP	22 50 49
SOD	iP	14 18 51.0				e	54
	ePP	20 19				i	56.6 1.5 198.0
KJN	iP	14 18 36.6	1.0	45.2		epPKP	53 06
	iPP	19 59.7				ePP	17
KEV	eP	14 19 00				iSKP	31.5
	ePP	20 26				iPKS	54 21.1
	H:	14 11 22.0				eSKS	57 18
		37.6 N, 73.4 E, 33 km (R)				eSKKP	23 03 17
		Tadzhik SSR			KEV	iPKP	22 50 47.2 U 1.3 129.9
						ePP	52 44
10	KJN	ePKP 15 06 07	1.0	10.5		eSKP	53 20
	H:	14 46 50.7				ePPP	55 32
		20.2 S, 173.7 W, 33 km (R)				eSKSP	23 01 46
		Tonga Islands				ePPS	04 30
						H:	22 32 46.6
							17.8 S, 178.8 W, 543 km (R)
							Fiji Islands region

April						April					
				T	A					T	A
10	NUR	ePKP	23 10 57	1.1	59.5	11	NUR	eP	14 37 51		
		eSKP	13 23				SOD	eP	14 37 41		
	SOD	ePKP	23 10 45				KJN	iP	14 37 38.5 D	1.3	42.5
		i	47.7					e	38 33		
	KJN	iPKP	23 10 50.1	1.3	119.7			H:	14 27 44.7		
	KEV	ePKP	23 10 42	1.3	50.0				29.4 N, 104.5 E, 33 km (R)		
			H: 22 53 04.8						Szechwan Province, China		
			13.4 S, 170.3 E, 644 km								
			New Hebrides Islands			11	NUR	ePKP	17 12 42		
								H:	16 53 53.9		
11	NUR	iPKP	00 31 09.9 U	1.5	126.1				11.5 S, 166.1 E, 75 km		
		i	18.4						Santa Cruz Islands		
		ePP	34 56								
		e	35 06			11	NUR	iP	17 21 08.8	0.8	24.5
		e	39				KJN	eP	17 20 59		
		e	50 06								
		eSS	55 12			11	NUR	ePKP	17 23 18	1.0	150.0
	SOD	ePKP	00 30 57					i	19.6		
		i	58.8				SOD	ePKP	17 23 02		
		i	31 03.8				KJN	iPKP	17 23 07.5	0.9	10.7
		i	32 26.5				KEV	iPKP	17 23 05.1		
		ePP	34 33					H:	17 03 45.8		
	KJN	iPKP	00 30 55.5						30.7 S, 178.1 W, 67 km		
		i	31 02.0	1.3	231.6				Kermadec Islands		
		e	34 16								
		ePP	48			11	NUR	eP	18 53 09		
	KEV	ePKP	00 30 52	1.3	233.1		SOD	eP	18 51 41		
		i	54.7				KJN	eP	18 52 24		
		ePP	34 20				KEV	eP	18 51 16	1.0	11.8
			H: 00 11 08.8								
			42.7 S, 173.9 E, 7 km			11	NUR	ePKP	19 09 58	0.8	23.0
			South Island, N.Z.					i	10 07.0	1.0	78.0
11	NUR	eP	01 48 34	0.8	8.6			eSKP	12 50		
								ePKS	13 41		
11	NUR	eP	02 02 31				SOD	ePKP	19 09 44		
	SOD	eP	02 03 12					i	52.8		
	KJN	eP	02 02 47					eSKP	12 29		
11	NUR	iPKP	02 30 15.3	0.9	47.4		KJN	ePKP	19 09 46		
	KJN	ePKP	02 30 04					i	57.1		
			H: 02 10 42.0					i	59.2		
			30.6 S, 178.1 W, 68 km					epPKP	12 06		
			Kermadec Islands region					iPKS	13 31.0		
							KEV	iPKP	19 09 43.6	1.0	25.5
								i	49.0	1.1	35.0
								H:	18 51 38.1		
									26.2 S, 178.5 E, 581 km (R)		
11	KEV	eP	05 12 14						South of Fiji Islands		
			H: 04 59 39.3			11	NUR	eP	19 38 44		
			19.8 N, 109.2 W, 33 km (R)				SOD	eP	19 37 17		
			Revilla Gigedo Islands				KJN	eP	19 38 00		
11	NUR	eP	07 42 53	1.0	20.0		KEV	eP	19 36 52		
	KJN	iP	07 42 42.1	1.0	15.8						

April						April			
				T	A				
11	NUR	eP	19 41 01						
	SOD	eP	19 39 34						
	KJN	eP	19 40 18						
	KEV	eP	19 39 08						
11	NUR	iP	22 42 41.0	0.8	14.4	12	NUR	eP	09 22 11
	SOD	iP	22 42 41.3						H: 09 11 49.5
		ePcP	43 38						53.5 N, 164.7 W, 35 km (R)
	KJN	eP	22 42 32	0.9	8.9				Unimak Island region
	KEV	iP	22 42 43.5	0.9	13.1	12	NUR	eP	09 30 50
			H: 22 33 05.9				KJN	eP	09 30 45
			26.7 N, 92.3 E, 70 km			12	NUR	eP	10 30 21
			Eastern India				KJN	eP	10 30 10
12	NUR	eP	04 10 07	0.9	35.3	12	NUR	iP	10 36 45.3
	SOD	eP	04 09 19				e		56
	KJN	iP	04 09 43.2				KJN	iP	10 36 33.5
		e	10 16			12	NUR	eP	11 06 58
	KEV	iP	04 09 03.5	0.8	9.9				07 16
			H: 03 59 40.2				KJN	iP	11 06 46.3 D
			56.6 N, 152.7 W, 33 km (R)			12	NUR	eP	11 42 29
			Kodiak Island region				i		45.3
12	NUR	iP	04 47 03.5 D	0.8	21.6		e		43 47
	SOD	eP	04 46 16				KJN	iP	11 42 17.6 D
	KJN	iP	04 46 38.8 D	0.9	13.3	12	NUR	iPKP	15 33 00.4 U
	KEV	eP	04 46 01				KJN	iPKP	15 32 48.2
			H: 04 36 11.6						H: 15 13 14
			52.7 N, 167.4 W, 16 km						32.7 S, 178.3 W, 11 km
			Fox Islands						South of Kermadec Islands
12	NUR	iP	04 54 01.1 D	0.7	25.8	12	NUR	iP	16 01 45.6
	SOD	iP	04 53 15.0				SOD	iP	16 01 15.6 D
	KJN	iP	04 53 36.7 D	0.8	15.7			epP	37
	KEV	iP	04 52 58.2 D	0.7	10.1		KJN	iP	16 01 25.2
			H: 04 43 10.0					epP	46
			52.7 N, 167.5 W, 22 km						H: 15 50 39.8
			Fox Islands						36.0 N, 139.5 E, 77 km
									Honshu, Japan
12	NUR	eP	09 07 09			12	NUR	iP	19 17 56.2
	KJN	eP	09 06 47				eS		20 33
12	NUR	iPKP	09 11 00.7 U	0.8	77.8		e		21 23
		i	17.2				SOD	iP	19 19 20.2
	SOD	ePKP	09 10 49				eS		23 15
	KJN	iPKP	09 10 48.7 U				KJN	eP	19 18 40
			H: 08 51 16.7				eS		21 54
			32.5 S, 178.1 W, 22 km						H: 19 14 28
			South of Kermadec Islands						45.1 N, 25.7 E, 60 km
									Rumania
12	NUR	eP	09 22 35			12	NUR	iPKP	20 45 42.2 D
	SOD	eP	09 21 49				e		46 51
			cont.						cont.

April							April						
					T	A					T	A	
	SOD	ePKP	20 45 31					SOD	eP	15 33 03			
	KJN	iPKP	20 45 30.9 D	1.1	41.3			KJN	iP	15 33 20.0	1.1	11.6	
		i	43.3					H:	15 23 06.0				
		e	47 42						51.5 N, 172.1 E, 35 km (R)				
		eSKP	49 16						Near Islands				
	H:	20 26 15.3						13	SOD	eP	17 34 34		
		32.3 S, 178.5 W, 167 km											
		South of Kermadec Islands						13	NUR	ePKP	17 42 08	0.8	14.4
12	NUR	iP	20 52 13.6 D	0.8	96.5			SOD	ePKP	17 42 02			
		epP	53 39					KJN	ePKP	17 42 00			
		iPP	55 08.5					H:	17 22 38.6				
		iS	21 01 12						26.8 S, 175.9 W, 33 km (R)				
		eSS	06 09						South of Tonga Islands				
	SOD	iP	20 51 47.2 U					13	NUR	iP	17 55 49.1 U	0.9	28.6
		ipP	53 23.3					SOD	iP	17 55 05.4 D			
		e	55 28					KJN	iP	17 55 23.3 D	1.0	32.6	
		iS	21 00 24					H:	17 45 27.2				
	KJN	iP	20 51 55.5	1.1	99.3				51.6 N, 159.4 E, 33 km (R)				
		epP	53 31						Kamchatka				
		ePP	54 36					13	NUR	iP	18 06 24.6	1.3	40.9
		eS	21 00 37					SOD	eP	18 05 39			
	H:	20 41 16.3						KJN	eP	18 05 59	1.2	15.7	
		30.2 N, 138.5 E, 421 km (R)						H:	17 55 32.9				
		South of Honshu, Japan							50.7 N, 177.2 E, 32 km				
12	NUR	ePKP	21 47 42	1.0	102.0				Rat Islands				
		e	48 50					13	NUR	iP	23 33 38.3 D	1.2	42.8
	SOD	ePKP	21 47 32					SOD	iP	23 32 51.7 D			
	KJN	iPKP	21 47 30.2 D	1.3	106.2			KJN	iP	23 33 13.7 D	0.9	16.9	
		i	48 05.1					H:	23 22 57.2				
	H:	21 27 59							54.2 N, 163.4 W, 36 km				
		32.6 S, 178.0 W, 33 km (R)							Unimak Island region				
		South of Kermadec Islands						14	SOD	eP	04 28 42		
13	NUR	eP	01 15 42					KJN	eP	04 28 33			
13	NUR	eP	04 01 29										
	SOD	iP	04 00 59.2 D					14	NUR	iP	07 46 10.1	0.8	24.5
	KJN	iP	04 01 09.3	0.7	8.2				i	18.1	1.1	59.5	
	H:	03 50 25.8							e	47 10			
		36.5 N, 139.5 E, 76 km							e	48 10			
		Honshu, Japan							ePPP	50 09			
13	SOD	eP	08 58 50						eS	54 50			
13	SOD	eP	13 54 43					SOD	iP	07 45 22.5 U			
13	SOD	eP	14 59 57						i	30.9 D			
13	NUR	iP	15 33 45.7	1.0	26.0			KJN	iP	07 45 45.6	1.0	16.8	
		e	56						i	53.8 D	1.2	39.3	
		cont.						H:	07 35 39.4				
									56.3 N, 153.5 W, 27 km (R)				
									Kodiak Island region				

April				April			
			T	A		T	A
14	NUR eP	08 37 49			KJN iP	05 20 42.6 U	0.8 134.8
	SOD eP	08 37 02			iPcP	21 03.4	
	KJN eP	08 37 24			ipP	25.0	
	H:	08 23 34.7			e	23 01	
		1.2 S, 78.8 W, 59 km			H:	05 09 51.1	
		Ecuador				24.9 N, 122.6 E, 190 km	
						Taiwan region	
14	NUR eP	10 31 26	1.0	18.0	15 NUR eP	07 57 16	0.7 9.2
	SOD eP	10 31 10			KJN eP	07 57 04	
	KJN iP	10 31 22.7 D	0.9	7.1	15 NUR iPcP	08 04 06.8 D	1.1 53.2
	H:	10 18 49.2			KJN iPcP	08 03 55.4 D	1.0 17.9
		18.1 N, 94.1 W, 106 km			H:	07 44 38	
		Gulf of Campeche				32.2 S, 178.5 W, 153 km	
						South of Kermadec Islands	
14	NUR eP	11 05 27	0.8	14.4	15 NUR eP	15 22 46	0.8 11.8
	SOD eP	11 04 43			H:	15 12 14.6	
	KJN iP	11 05 01.7	0.9	9.8		52.8 N, 172.4 E, 44 km	
	H:	10 55 04.2				Near Islands	
		51.6 N, 159.5 E, 24 km			15 NUR eSS	22 49 36	
		Kamchatka				eSSS	53 44
						eLQ	23 03.2
						eLR	23 11.0
					KEV eSS	22 49 12	
					H:	22 09 52	
						50.2 S, 113.4 E, 33 km (R)	
						Southeast Indian Rise	
14	NUR iPcP	12 09 04.8	0.8	44.6	15 NUR ePKP	00 35 06	
	e	24			SOD ePKP	00 35 04	
	SOD ePKP	12 08 53			KJN iPcP	00 35 01.6	0.9 8.9
	KJN iPcP	12 08 53.6 U	0.9	22.2	KEV ePKP	00 34 53	
	H:	11 49 22			H:	00 15 52.3	
		32.5 S, 178.0 W, 33 km (R)				22.3 S, 175.5 W, 120 km	
		South of Kermadec Islands				Tonga Islands region	
14	KJN eP	14 11 03			16 NUR ePKP	10 18 15	0.9 17.2
	H:	13 57 42.4			KJN iPcP	10 18 07.4	1.1 21.9
		1.6 S, 126.6 E, 33 km (R)			i	22.4	
		Molucca Sea			H:	09 59 06.2	
						20.1 S, 169.2 E, 62 km	
						New Hebrides Islands	
14	NUR eP	22 44 08			16 NUR eP	14 44 44	0.9 15.5
	KJN eP	22 44 05			ePcP	45 11	
14	NUR ePKP	23 11 51			SOD ePcP	14 44 43	
	KJN ePKP	23 11 43			KJN iP	14 44 17.7	
	H:	22 53 00.2			iPcP	55.4	
		15.4 S, 167.5 E, 126 km			H:	14 33 51.9	
		New Hebrides Islands				50.6 N, 177.3 E, 38 km (R)	
						Rat Islands	
15	NUR iSKP	04 54 54.9	0.7	6.6			
	KJN iSKP	04 54 44.0					
	H:	04 33 32					
		23.7 S, 179.6 W, 460 km					
		South of Fiji Islands					
15	NUR iP	05 20 57.2 U	1.0	133.3			
	SOD iP	05 20 39.8 U					
	epP	21 21					

cont.



April						April					
				T	A						
						T	A			A	
16	NUR	iP	23 31 52.1 U	1.1	158.6	17	KJN	eP	06 19 22		
		i	52.9					H:	06 09 11.9		
		eS	39 34						52.3 N, 174.2 E, 48 km		
		eScS	41 39						Near Islands		
		eSS	43 17								
		eLQ	23 46.0			17	NUR	eP	12 34 08		
SOD	iP		23 31 01.3 U					H:	12 23 23.4		
	i		32 05.4						52.6 N, 174.2 W, 35 km (R)		
KJN	iP		23 31 26.4 U	1.5	163.7				Andreanof Islands		
	iPcP		32 38.3			18	NUR	iP	06 45 45.0	1.2	62.7
	eS		38 55					i	50.3 D		
KEV	iP		23 30 41.9 U	1.3	115.2			e	55 16		
	ePP		32 34					eS	28		
	ePPP		33 22					eSS	07 00 18		
	iS		47 26					e	05 28		
	eSS		40 55					eLR	07 08		
	eLQ		23 41.1			SOD	eP	06 45 07			
	eLR		23 43.5				i	13.5 D			
	H:		23 22 18.6			KJN	iP	06 45 27.6	0.7	15.5	
			64.7 N, 160.1 W, 5 km				i	33.0 D			
			Central Alaska			KEV	eP	06 44 54			
17	NUR	iP	00 11 03.4	0.9	137.8		H:	06 33 58.8			
		i	14.0					41.5 N, 127.1 W, 20 km (R)			
SOD	iP		00 10 17.3 D					Northern California			
	e		28			18	NUR	iPKP	09 58 18.2 U	1.3	85.3
KJN	iP		00 10 37.4 D	0.9	35.6			e	41		
	iPcP		11 23.5					ePP	10 00 12		
KEV	eP		00 10 01					ePKS	01 36		
	i		10.0					ePS	10 18		
	H:		00 00 29.7					e	15 00		
			52.6 N, 173.1 E, 43 km					eSS	16 58		
			Near Islands					eSSS	21 08		
17	NUR	eP	02 56 48			SOD	ePKP	09 58 27			
	SOD	eP	02 57 11				ePKS	10 01 57			
KJN	iP		02 56 57.3 U	0.9	16.9		i	02 09.2			
	i		57 04.3			KJN	ePKP	09 58 20			
	H:		02 45 04.8				i	25.4			
			7.2 S, 67.9 E, 33 km (R)				eSKP	10 01 45			
			Mid-Indian Rise			KEV	ePKP	09 58 36			
17	NUR	eP	03 47 45	0.7	7.7		ePP	10 01 10			
	SOD	eP	03 47 18				ePKS	02 06			
KJN	eP		03 47 25	0.5	8.3		ePS	11 22			
KEV	eP		03 47 10				ePPS	13 14			
	H:		03 37 01.7				eSS	18 42			
			31.3 N, 137.4 E, 491 km				H:	09 39 18.7			
			South of Honshu, Japan					59.8 S, 26.8 W, 29 km			
								South Sandwich Islands			
17	KJN	eP	04 39 48			18	NUR	iPKP	13 00 55.3	1.2	51.3
	H:		04 28 17.5					ePP	02 42		
			30.0 N, 143.6 E, 37 km								
			South of Honshu, Japan								

cont.

April				April			
		T	A			T	A
	eSKP	04	08				
	eSKKS	09	40				
	eSP	12	46				
	e	17	48				
	eSS	19	45				
SOD	ePKP	13	01 08				
	iSKP	04	32.0				
KJN	iPKP	13	01 01.8 D	1.6	113.8		
	iSKP	04	21.9				
	iPKS		25.4				
KEV	ePKP	13	01 12				
	ePKS	04	38				
	H:	12	41 54.9				
			59.7 S, 26.4 W, 25 km				
			South Sandwich Islands				
18	NUR	ePKP	14 27 30	0.9	25.2		
	SOD	ePKP	14 27 23				
	KJN	ePKP	14 27 23				
	H:	14	08 01.4				
			26.9 S, 176.1 W, 33 km (R)				
			South of Fiji Islands				
18	NUR	eP	16 31 04	0.8	14.4		
	KJN	eP	16 30 52	1.0	21.8		
	e		31 04				
18	SOD	eP	18 22 57				
	i		23 07.2				
	KJN	eP	18 22 57				
	e		23 10				
	KEV	eP	18 22 58				
	H:	18	11 26.5				
			20.1 N, 121.2 E, 39 km				
			Philippine Islands				
18	SOD	ePKP	19 46 16				
	KJN	ePKP	19 46 11				
	eSKP		49 34				
	H:	19	27 05.2				
			59.8 S, 26.5 W, 33 km (R)				
			South Sandwich Islands				
18	NUR	eP	21 39 49				
	SOD	eP	21 39 31				
19	NUR	eP	01 27 27				
	SOD	eP	01 28 03				
	KJN	eP	01 27 39				
	KEV	iP	01 28 17.1	0.7	9.5		
	H:	01	20 04.2				
			28.2 N, 56.6 E, 33 km (R)				
			Southern Iran				
19	NUR	iPKP	04 59 35.0	0.5	21.1		
	KJN	ePKP	04 59 23				
	H:	04	39 55				
			30.8 S, 178.1 W, 33 km (R)				
			Kermadec Islands region				
19	NUR	eP	06 52 06	0.6	10.0		
	SOD	iP	06 53 06.6				
	KJN	iP	06 52 36.5 D	0.8	8.9		
	KEV	eP	06 53 28				
	H:	06	46 33.5				
			34.6 N, 28.4 E, 33 km (R)				
			Eastern Mediterranean Sea				
19	NUR	eP	08 18 09				
	e		24				
	SOD	eP	08 18 13				
	i		29.7				
	ePP		21 22				
	KJN	eP	08 18 05				
	i		21.2				
	ePP		21 17				
	KEV	eP	08 18 23				
	i		32.7				
	H:	08	06 00				
			1.8 N, 98.5 E, 55 km				
			Northern Sumatra				
19	NUR	eP	16 19 44				
	KJN	iP	16 19 17.8				
	H:	16	09 05.2				
			52.5 N, 172.4 E, 15 km (R)				
			Near Islands				
19	NUR	ePKP	18 37 19				
	eSKP		40 00				
	KJN	ePKP	18 37 12	0.6	9.3		
	eSKP		39 47				
	H:	18	18 59.9				
			17.5 S, 197.0 W, 502 km				
			Fiji Islands region				
19	NUR	iP	23 53 11.3 U	0.9	121.0		
	i		23.2				
	iPcP		31.2				
	eS	24	02 22				
	ePS		03 06				
	eScS		26				
	eSS		06 44				
	eSSS		10 38				
	eLQ	24	11.2				
	eLR	24	15.5				

cont.

April				T	A	April				T	A	
	SOD	iP	23 52 41.7			20	NUR	iP	11 35 32.8			
		i	52.7				KJN	iP	11 35 29.6	0.7	19.4	
		iPcP	53 13.1				H: 11 22 44					
		ePP	55 17				4.1 S, 104.3 E, 33 km (R)					
	KJN	iP	23 52 51.3 U	1.2	184.2		Southern Sumatra					
		i	53 01.8				20	NUR	eP	14 53 11	0.9 33.6	
		i	11.9					KJN	eP	14 53 00	1.0 9.8	
		eS	24 01 46				20	SOD	eP	17 27 58		
	KEV	iP	23 52 32.8 U	1.1	61.0			KJN	eP	17 28 08		
		i	44.1					KEV	eP	17 27 55		
		ePcS	57 04					H: 17 15 19.4				
		eS	24 01 11					14.8 N, 146.9 E, 60 km				
		eScS	02 22					Mariana Islands				
		eSS	05 08				21	NUR	iP	00 11 38.2 D	0.8 21.6	
		eSSS	08 20					SOD	iP	00 11 20.0 U		
	H: 23 41 58.8							KJN	iP	00 11 22.8 D	0.7 21.7	
	34.9 N, 138.0 E, 36 km (R)							KEV	iP	00 11 14.4 D	0.8 17.3	
	Honshu, Japan							H: 00 00 12.0				
20	NUR	iP	04 55 20.0	0.7	12.9		24.2 N, 124.6 E, 101 km					
	KJN	eP	04 54 55				Southwestern Ryukyu Islands					
	H: 04 44 55.5						21	KJN	ePKP	08 43 28		
	53.6 N, 169.2 E, 27 km							H: 08 24 13				
	Komandorsky Islands							20.9 S, 174.6 W, 33 km (R)				
20	NUR	iP	06 53 43.2 U	1.0	156.0		Tonga Islands					
		i	54.8 D				21	KJN	ePKP	10 49 54		
	SOD	iP	06 52 57.3 U				H: 10 30 39.5					
		i	53 08.8				20.4 S, 174.6 W, 33 km (R)					
	KJN	iP	06 53 17.5 U	1.1	75.8		Tonga Islands					
		i	28.9 D				21	SOD	eP	20 47 11		
	KEV	iP	06 52 41.0 U	0.9	32.7		H: 20 34 22.8					
		i	50.0				19.0 N, 108.1 W, 33 km (R)					
	H: 06 43 08.8						Revilla Gigedo Islands					
	52.4 N, 172.0 E, 35 km (R)						21	NUR	eP	21 36 55		
	Near Islands							SOD	eP	21 36 17		
20	NUR	iP	07 00 24.5	0.8	41.8			KJN	eP	21 36 30		
	SOD	iP	06 59 38.6				H: 21 26 11.5					
	KJN	eP	06 59 57				44.6 N, 149.2 E, 33 km (R)					
		i	57.7	0.7	31.0		Kurile Islands					
	KEV	eP	06 59 21				21	NUR	eP	21 48 26	0.9 13.4	
	H: 06 50 17.6							SOD	eP	21 47 41		
	54.6 N, 161.4 E, 33 km (R)							KJN	eP	21 48 01	1.0 9.8	
	Kamchatka						H: 21 37 49.3					
20	NUR	eP	07 05 43				52.2 N, 172.5 E, 35 km (R)					
	SOD	eP	07 05 11				Near Islands					
	KJN	eP	07 05 18									
	H: 06 54 45.0											
	38.9 N, 138.8 E, 44 km											
	Honshu, Japan											

April				April							
				T	A						
21	NUR	eP	22 11 58			KEV	iP	18 45 42.0	0.8	18.7	
	SOD	eP	22 11 25				eSS	57 24			
	KJN	eP	22 11 44	1.1	13.3		eLR	19 03.1			
						H:		18 36 01.2			
21	NUR	eP	23 03 48					51.8 N, 176.1 E, 37 km			
	SOD	eP	23 03 16					Rat Islands			
	KJN	iP	23 03 27.2	0.6	7.8	23	NUR	eP	02 08 48		
			H: 22 52 48.4					H: 01 58 08			
			38.1 N, 141.5 E, 74 km					52.0 N, 172.8 E, 40 km (R)			
			Honshu, Japan					Near Islands			
22	NUR	ePKP	01 24 29	0.8	57.1	23	SOD	eP	03 04 26		
		i	30.4								
		epPKP	25 23			23	NUR	eP	03 20 44		
	SOD	ePKP	01 24 18				SOD	eP	03 19 57		
	KJN	ePKP	01 24 22				KJN	eP	03 20 17		
		i	23.1	0.9	36.9		KEV	eP	03 19 39		
		epPKP	25 16					H: 03 10 35.8			
	KEV	iPKP	01 24 15.1	0.8	15.8			55.3 N, 165.5 E, 33 km (R)			
			H: 01 05 50.2					Komandorsky Islands			
			14.3 S, 167.3 E, 204 km			23	SOD	eP	16 08 57		
			New Hebrides Islands								
22	NUR	eP	04 18 09			24	NUR	iPKP	00 24 13.1 D	1.0	134.0
	SOD	eP	04 18 11					i	54.0		
	KJN	eP	04 18 07				SOD	ePKP	00 23 50		
		e	18					e	24 21		
22	NUR	eP	08 20 27				KJN	iPKP	00 24 02.1 D	0.9	58.1
	SOD	eP	08 19 45					i	34.3		
	KJN	eP	08 20 05					ePKS	27 42		
		iPcP	45.0				KEV	ePKP	00 24 03		
			H: 08 10 03.5					H: 00 04 33			
			51.6 N, 161.0 E, 33 km (R)					32.8 S, 178.4 W, 33 km (R)			
			Kamchatka					South of Kermadec Islands			
22	NUR	ePKP	15 10 49			24	NUR	eP	00 44 51		
	KJN	ePKP	15 10 42	0.7	3.9			i	54.6		
			H: 14 52 04.9				KJN	eP	00 44 37		
			14.6 S, 167.3 E, 167 km			24	NUR	eP	01 19 23		
			New Hebrides Islands					i	27.8	1.3	
								e	36	27.3	
22	SOD	eP	18 01 41				KJN	iP	01 19 12.0 D	1.0	12.0
22	NUR	iP	18 46 43.4 D	1.1	35.7						
		ePPP	50 58			24	NUR	eP	01 45 14		
		eS	55 26				KJN	eP	01 45 04		
		eSS	19 00 11			24	NUR	eP	02 02 26	1.2	34.2
		eLR	19 06.2					eP	02 02 13		
	SOD	iP	18 45 58.2 D								
	KJN	iP	18 46 17.5 U	1.2	32.6						
		ePcP	47 00								
			cont.								

April						April				
				T	A			T	A	
	SOD	eP	15 33 37			26	NUR	iP	02 07 23.7	1.0 28.0
		e	48					i	35.6	1.4 98.4
	KJN	eP	15 33 57	1.3	18.0			e	08 20	
		i	34 08.3					eS	15 42	
	KEV	eP	15 33 23					eScS	17 12	
	H:	15 23	40.1					eLQ	02 22.5	
			51.4 N, 174.5 E, 38 km (R)					eLR	02 26	
			Near Islands				SOD	eP	02 06 35	
25	SOD	eP	15 42 31					i	47.3	
		e	42					i	07 26.4	
	KJN	eP	15 42 51				KJN	eP	02 06 59	1.0 14.2
		e	43 01					i	07 11.3	1.3 66.0
	KEV	eP	15 42 16					e	53	
		e	25				KEV	eP	02 06 15	
	H:	15 32	32.6					i	29.4	1.4 61.5
			51.5 N, 174.2 E, 36 km (R)					eS	13 44	
			Near Islands					eScS	16 08	
							H:	01 57	14.4	
25	NUR	eP	16 46 33						58.9 N, 142.7 W, 33 km (R)	
	SOD	eP	16 47 15						Gulf of Alaska	
		ePP	48 43			26	NUR	eP	03 31 27	
	KJN	eP	16 46 50	0.7	5.4			epP	32 14	
		ePP	48 14				SOD	eP	03 31 44	
	KEV	iP	16 47 31.8	0.8	9.9		KJN	eP	03 31 27	
	H:	16 39	45.0					epP	32 12	
			30.4 N, 50.6 E, 34 km				KEV	eP	03 31 53	
			Iran				H:	03 24	34.2	
									36.3 N, 70.2 E, 239 km	
25	NUR	eP	21 26 24						Hindu Kush region	
		ePcP	52	0.8	10.1	26	NUR	e	10 04 07	
	SOD	eP	21 25 38					ePP	05 02	
		eScP	30 23					ePPP	07 12	
	KJN	eP	21 26 00					ePS	13 52	
		iPcP	36.3					eSS	19 05	
		eScP	30 38					e	21 11	
	KEV	eP	21 25 20				SOD	eP	10 00 49	
		ePcP	26 14					ePP	04 40	
	H:	21 15	32.3				KJN	eP	10 00 48	
			51.3 N, 176.4 W, 40 km (R)					e	03 55	
			Andreanof Islands					ePP	04 42	
25	NUR	eP	21 40 02				KEV	eP	10 00 46	
	SOD	eP	21 39 39					ePP	04 36	
	KJN	eP	21 39 44	0.9	13.8			ePS	13 31	
	KEV	eP	21 39 32					eSS	18 32	
	H:	21 28	40.5					e	20 10	
			29.7 N, 130.7 E, 28 km				H:	09 47	25.1	
			Ryukyu Islands						1.7 S, 126.6 E, 15 km	
									Molucca Sea	
25	SOD	ePKP	22 04 58							
	H:	21 45	54.1			26	NUR	eP	13 26 34	0.9 13.4
			56.1 S, 27.3 W, 33 km (R)				KJN	eP	13 26 24	1.0 6.5
			South Sandwich Islands							

April						April					
				T	A					T	A
27	NUR	eP	01 00 49			SOD	iP	14 15 27.0 D			
	KJN	eP	01 00 46				i	54.1			
			H: 00 53 41				eS	20 33			
			36.8 N, 73.1 E, 140 km			KJN	iP	14 14 57.6 D	0.8	37.4	
			Northwestern Kashmir				ePP	15 44			
27	NUR	eP	02 29 24	0.8	11.5		iPcP	18 28.2			
	SOD	iP	02 28 51.4				eS	19 43			
	KJN	iP	02 29 03.2 U	0.8	17.9		iScS	25 44.0			
		e	14			KEV	iP	14 15 48.0 D	0.9	104.2	
			H: 02 18 23				i	52.1			
			38.8 N, 142.0 E, 33 km (R)				iPP	17 15.1			
			Honshu, Japan				iPcP	18 25.0			
							i	19 23.0			
27	NUR	eP	07 30 40	1.0	14.0		eS	21 10			
	SOD	eP	07 30 16				e	22 38			
	KJN	eP	07 30 23					H: 14 09 07.1			
								35.7 N, 23.5 E, 50 km			
								Crete			
27	SOD	eP	07 34 22			27	NUR	iP	15 00 30.6 D	0.6	47.5
	KJN	iP	07 34 27.2	0.7	7.8		SOD	iP	14 59 53.1 D		
			H: 07 22 13				KJN	iP	15 00 07.0 D	0.7	20.9
			10.1 N, 62.1 W, 58 km				KEV	iP	14 59 39.8 D	0.7	15.5
			Near coast of Venezuela					H: 14 50 55			
								48.3 N, 146.4 E, 428 km			
								Sea of Okhotsk			
27	NUR	eP	11 08 17			27	NUR	ePKP	15 06 09		
		ePPS	22 31				KJN	ePKP	15 06 06		
		iPKKP	24 14.0					H: 14 47 35			
	SOD	iP	11 08 11.0 D					24.1 S, 179.5 W, 405 km			
		i	28.1					South of Fiji Islands			
	KJN	iP	11 08 11.0 U	1.1	42.6	27	SOD	ePKP	15 26 04		
		ePKKP	24 19				KJN	ePKP	15 26 07		
	KEV	eP	11 08 09					H: 15 06 42.6			
			H: 10 54 28.0					35.8 S, 103.2 W, 33 km (R)			
			7.0 S, 129.5 E, 67 km					Southern Pacific Ocean			
			Banda Sea								
27	SOD	eP	11 27 46			27	NUR	eP	16 20 41	0.6	10.0
							KJN	eP	16 20 34	0.7	7.0
27	NUR	eP	11 51 55			27	NUR	eSKS	20 33 31		
	SOD	iP	11 52 09.0 D					eS	34 18		
	KJN	eP	11 51 33					ePS	35 44		
			H: 11 41 37					eSS	40 34		
			57.9 N, 152.2 W, 25 km (R)					eSSS	44 10		
			Kodiak Island region					eLQ	20 50.1		
								eLR	20 54.1		
27	NUR	iP	14 14 24.7 U	1.0	124.0		KEV	eSS	20 40 42		
		i	48.6	1.0	150.0			H: 20 09 18			
		ePcP	18 03					1.5 N, 85.2 W, 33 km (R)			
		eS	48					Off coast of Ecuador			
		eSS	19 35								
		eScS	25 27								
		eLQ	14 21								
		eLR	14 22.5								

cont.

April						April			
			T	A				T	A
27	SOD eP	21 14 53			28	NUR eP	21 04 46		
	H:	21 04 46				SOD eP	21 04 56		
		53.5 N, 165.4 W, 33 km (R)				KJN eP	21 04 59		
		Fox Islands			29	NUR eP	01 20 26		
27	NUR eP	21 45 42	1.0	10.0	29	NUR eP	02 17 54	0.7	9.0
28	NUR eP	01 36 31			29	NUR eP	06 18 55		
	SOD eP	01 35 43				H:	06 09 31		
	KJN eP	01 36 04					52.1 N, 152.2 E, 451 km		
	KEV eP	01 35 28					Kurile Islands		
	H:	01 25 42.3			29	NUR eP	09 52 06		
		52.0 N, 176.1 W, 47 km (R)				eS	56 15		
		Andreanof Islands				eLQ	09 57.8		
28	SOD eP	03 26 19				KJN eP	09 52 44		
	H:	03 17 16				H:	09 46 57.7		
		61.1 N, 146.7 W, 33 km (R)					37.0 N, 26.9 E, 30 km		
		Southern Alaska					Dodecanese Islands		
28	NUR ePKP	10 46 13			29	NUR ePKP	10 02 54		
	KJN ePKP	10 46 08				iSKP	05 36.1		
	KEV ePKP	10 46 03	1.2	14.3		SOD iSKP	10 05 16.5		
	H:	10 26 44				KJN ePKP	10 02 49		
		27.1 S, 176.5 W, 33 km (R)				iSKP	05 24.6		
		Kermadec Islands				H:	09 44 34.2		
28	NUR iP	12 18 51.6 U	1.0	28.0			22.1 S, 179.8 E, 540 km		
	SOD eP	12 18 32					South of Fiji Islands		
	KJN iP	12 18 35.8 U	0.9	16.6	29	NUR eP	11 32 15		
	KEV eP	12 18 26	0.9	8.4		H:	11 19 25.6		
	H:	12 07 14.5					15.3 N, 145.6 E, 134 km		
		24.7 N, 127.0 E, 33 km (R)					Mariana Islands		
		Ryukyu Islands			29	NUR iP	11 47 56.8 U	0.8	57.6
28	NUR eP	16 43 51				e	48 20		
	SOD iP	16 43 17.3				i	50.4		
	KJN iP	16 43 28.7 D	0.7	18.6		KJN iP	11 47 45.6	0.9	22.2
	KEV eP	16 43 06				e	48 09		
	H:	16 33 07				H:	11 28 19.1		
		40.7 N, 140.9 E, 79 km					32.5 S, 179.1 W, 64 km		
		Honshu, Japan					South of Kermadec Islands		
28	NUR ePKP	17 01 39			29	NUR iP	14 15 17.0	0.8	11.5
	KJN ePKP	17 01 34				KJN eP	14 14 47		
	H:	16 42 12				H:	14 05 06.9		
		26.4 S, 177.3 W, 33 km (R)					55.1 N, 165.8 E, 33 km (R)		
		South of Fiji Islands					Komandorsky Islands region		
28	NUR eP	20 35 36			29	NUR iP	15 39 45.0 D	0.8	396.0
	SOD eP	20 35 19				i	40 03.0		
	KJN eP	20 35 21	1.0	9.8			cont.		

April

April

T A

T A

ePP 42 25
 e 43 34
 ePPP 44 00
 e 45 00
 e 48 43
 iS 49.5
 ePS 49 13
 e 50 16
 eSS 53 06
 eSSS 56 06
 eP'P' 16 07 52
 e 08 09
 eLQ 15 57.5
 eLR 16 01.5
 SOD iP 15 39 06.6 D
 i 23.0
 ePP 41 27
 eS 47 35
 ePS 48 05
 eScS 52
 eSS 51 22
 eP'P' 16 08 04
 KJN iP 15 39 29.0 D 1.0 926.5
 e 48
 e 48 04
 iS 16.5
 ePS 48
 eScS 49 19
 eP'P' 16 07 58
 KEV iP 15 38 52.8 D 0.8 295.2
 e 39 07
 ePP 41 09
 e 42 22
 eS 47 04
 e 34
 e 48 18
 eScS 32
 eSS 51 00
 eSSS 53 03
 eP'P' 16 08 11
 eLQ 15 54.0
 eLR 15 56.9

H: 15 28 43.3
 47.4 N, 122.4 W, 57 km
 Washington

ePP 04 55
 eS 11 20
 KEV iP 16 01 14.0 D 0.8 31.7
 H: 15 48 57.1
 5.6 S, 110.2 E, 504 km
 Java Sea

29 NUR iPKP 22 51 47.6 D 1.0 82.5
 e 52 55
 KJN iPKP 22 51 37.2 D 1.0 65.4
 H: 22 32 04.9
 32.6 S, 177.4 W, 33 km (R)
 South of Kermadec Islands

30 NUR eP 06 12 12
 SOD eP 06 11 56
 KJN eP 06 11 58 0.6 3.9

30 SOD iP 07 23 01.5
 KJN eP 07 22 55
 H: 07 13 23.1
 28.3 N, 96.0 E, 33 km (R)
 India-China border region

30 NUR iP 11 57 25.0 U 0.7 23.2
 KJN iP 11 57 31.5 U 0.9 38.8
 H: 11 45 27.1
 10.9 N, 62.4 W, 86 km
 Near coast of Venezuela

30 NUR iP 16 11 40.3 D 0.9 20.2
 KJN eP 16 11 15 1.1 13.3
 H: 16 00 57.5
 51.6 N, 175.0 E, 33 km (R)
 Rat Islands

30 KJN eP 19 41 38
 H: 19 30 14.5
 30.9 N, 142.0 E, 38 km
 South of Honshu, Japan

29 NUR iP 16 01 15.3 D 0.8 229.0
 e 04 42
 ePP 05 03
 SOD iP 16 01 14.2 D
 epP 03 06
 KJN iP 16 01 10.0 0.9 295.3
 epP 02 54

cont.

November 22, 1965

Urmas Luosto
 Aili Huovila



May						May			
				T	A				
1	NUR	eP	01 37 01			1	KJN	eP	16 48 12
	SOD	eP	01 36 12						H: 16 35 39.1
	KJN	eP	01 36 31						6.8 N, 72.8 W, 167 km
		e	42						Northern Colombia
1	NUR	eP	02 04 54	1.1	21.4	1	KJN	eP	19 20 04
		i	05 08.1						H: 19 09 10.1
		e(S)	09 16						29.9 N, 127.9 E, 114 km
	KJN	eP	02 05 28						East China Sea
			H: 01 59 47			1	NUR	iP	21 37 54.3 U
			37.1 N, 27.0 E, 33 km (R)						1.1 52.0
			Turkey						i
									59.0
									ePPP
									41 37
									eS
									46 00
									eScS
									47 42
									eSS
									50 11
									SOD
									iP
									21 37 05.6 U
									i
									10.6
									KJN
									iP
									21 37 29.9 U
									1.0 79.6
									ePcP
									38 29
									KEV
									iP
									21 36 47.4 U
									0.9 87.4
									i
									53.7
									eS
									43 54
									H: 21 27 54.4
									60.4 N, 146.0 W, 33 km
									Southern Alaska
1	NUR	iP	02 08 04.6	1.1	30.9	2	NUR	eP	00 14 57
		i	09.8						e
									15 05
									eS
									24 36
									SOD
									iP
									00 14 36.5 D
									e
									48
									KJN
									iP
									00 14 45.7
									1.1 16.0
									i
									58.9
									e
									15 11
									KEV
									e
									00 14 41
									H: 00 03 22.2
									30.9 N, 141.8 E, 33 km
									South of Honshu, Japan
									2
									SOD
									eP
									00 46 04
									KJN
									eP
									00 46 13
									H: 00 34 49.8
									30.9 N, 141.8 E, 33 km (R)
									South of Honshu, Japan
									2
									NUR
									eP
									07 25 11
									ePPP
									29 35
									eS
									34 24
									eSS
									39 06
									eSSS
									42 35
									eLR
									07 47.5

cont.

May				May					
		T	A			T	A		
	SOD eP	07	24 52		KJN eP	04	09 24	1.0	5.5
	KJN eP	07	24 47		i		32.1	1.1	18.6
	e		53		H: 03 57 02				
	ePP		27 22		12.1 S, 14.8 W, 33 km (R)				
	KEV eS	07	33 25		South Atlantic Ridge				
	eSS		38 10						
	H: 07 13 42				3 NUR eP	10	14 35		
	28.9 N, 128.9 E, 30 km				i		37.2	1.0	18.0
	Ryukyu Islands				e		15 57		
2	KJN eP	07	46 56		ePP		18 16		
					e		21 11		
2	NUR eP	09	15 24		eSKS		25 06		
	SOD iP	09	14 42.8		eS		22		
	KJN iP	09	14 57.9	0.9	8.3	e	26 13		
	H: 09 05 32.0				e		27 55		
	51.9 N, 142.9 E, 5 km				eSS		31 12		
	Sakhalin Island				eLQ	10	38.1		
					eLR	10	42		
					SOD eP	10	14 28		
2	NUR ePKP	11	10 16		KJN eP	10	14 30		
	e		28		i		34.7	0.9	18.6
	iSKP		13 07.8		KEV eP	10	14 25	1.1	23.8
	SOD ePKP	11	10 16		e		21 20		
	KJN ePKP	11	10 13		eS		24 46		
	i		23.1		eScS		25 22		
	ePKS		13 51		e		29 03		
	KEV ePKP	11	10 14		eSS		30 22		
	H: 10 52 13.5				H: 10 01 35.2				
	20.3 S, 178.9 W, 581 km				13.5 N, 89.3 W, 23 km (R)				
	Fiji Islands region				El Salvador				
2	NUR eP	22	38 44		3 NUR ePKP	11	18 18	1.0	16.0
	eS		43 09		KJN ePKP	11	18 06		
	SOD eP	22	39 45		H: 10 58 39.3				
	KJN eP	22	39 16		30.7 S, 177.3 W, 33 km (R)				
	KEV eP	22	40 07	1.0	14.0				
	H: 22 33 23.5				Kermadec Islands				
	35.7 N, 23.8 E, 36 km								
	Crete				3 NUR eP	12	55 35		
3	NUR ePKP	01	28 13		SOD eP	12	54 50		
	ePS		39 18		KJN eP	12	55 09	1.1	13.3
	eSS		45 42		KEV eP	12	54 34		
	SOD ePKP	01	28 17		H: 12 44 51.9				
	KJN ePKP	01	28 17	0.9	4.6	51.3 N, 174.5 E, 39 km (R)			
	H: 01 09 31.5				Near Islands				
	32.5 S, 70.6 W, 77 km								
	Chile-Argentina border				3 SOD eP	15	24 45		
					KJN eP	15	24 24	0.8	4.1
					H: 15 13 18.0				
3	NUR eP	04	09 04	1.1	19.0	4.8 S, 34.9 E, 15 km (R)			
	i		12.0		Tanganyika				
	SOD eP	04	09 32						
	cont.				3 SOD iP	16	14 32.3 D		
					cont.				

May							May								
				T	A					T	A				
	KJN	iP	16 14	39.5 D	0.6	9.3		KJN	iP	02 33	44.9	0.7	7.8		
	KEV	eP	16 14	25	1.1	16.7			H:	02 22	39.1				
				H:	16 02	14.5					26.2 N, 126.3 E,	95 km			
						18.5 N, 146.0 E,	123 km								
						Mariana Islands									
3	SOD	ePKKP	16 38	02				4	SOD	ePKP	03 59	45			
	KJN	ePKP	16 27	35						H:	03 40	43.4			
		ePKKP		38 17								56.2 S, 27.7 W,	33 km (R)		
		i		23.5									South Sandwich Islands		
				H:	16 09	09.0									
						24.2 S, 67.8 W,	114 km								
						Chile-Argentina border									
3	NUR	iP	17 51	38.6 D	0.7	18.1		4	KJN	eP	05 18	42			
		ipP		51.4						H:	05 11	48			
	SOD	iP	17 50	53.1 U								31.7 N, 49.1 E,	17 km		
	KJN	iP	17 51	12.8 U	0.7	17.8							Western Iran		
		ipP		25.9											
		ePcP		55											
	KEV	eP	17 50	37	0.6	10.0		4	SOD	eP	05 30	45			
				H:	17 40	58.4				KJN	eP	05 30	42		
						52.0 N, 175.8 E,	42 km (R)				H:	05 17	36.9		
						Rat Islands							0.7 N, 125.6 E,	60 km	
													Molucca Passage		
3	SOD	eP	19 41	27				4	NUR	iP	08 41	58.1	0.7	9.0	
										i	42 05.0 U	1.1	130.9		
										i	37.0				
										e	43 17				
										iPP	32.0				
										ePcP	44 16				
										e	45 17				
										eS	47 48				
										ePcS	48 06				
										eSS	50 26				
										SOD	eP	08 41	59		
										i	42 07.6				
										e	43 15				
										iPcP	44 15.5				
										KJN	eP	08 41	50	0.7	12.4
										i	56.7 U	1.8	228.5		
										i	42 12.0				
										ePP	43 02				
										KEV	eP	08 42	06	1.0	16.0
										i	11.6 U	1.5	102.7		
										ePP	43 41				
										eS	48 03				
										eSS	50 42				
										H:	08 34	39.8			
												41.7 N, 79.4 E,	6 km		
												Kirgiz-Sinkiang border			
4	NUR	eP	02 34	01				4	NUR	eP	22 50	13			
	SOD	eP	02 33	41					KJN	eP	22 49	56			
										H:	22 38	51			
												32.2 N, 141.2 E,	175 km		
													South of Honshu, Japan		

cont.



May		T	A	May		T	A
5	SOD eP 09 26 28 H: 09 17 24.5 61.0 N, 145.1 W, 45 km Southern Alaska			KJN iP 23 50 12.4 U H: 23 38 38 9.5 N, 124.1 E, 551 km Mindanao, P.I.	0.9	38.6	
5	NUR iP 21 44 42.0 D 0.8 13.0 SOD iP 21 44 05.8 D KJN iP 21 44 19.0 D 0.7 18.2 KEV eP 21 43 53 0.7 7.7 H: 21 33 54.9 42.9 N, 145.7 E, 33 km (R) Hokkaido, Japan			7 NUR eP 00 45 15 KJN eP 00 45 27 H: 00 38 45 32.4 N, 48.7 E, 52 km Western Iran			
5	NUR iP 23 12 37.3 U 0.9 95.8 i 48.0 eScS 22 28 eSS 25 52 SOD iP 23 11 51.7 U i 12 02.0 iPcP 43.8 KJN iP 23 12 11.7 U 0.9 33.9 KEV iP 23 11 35.5 0.9 18.5 iPcP 12 34.9 H: 23 02 01.7 52.6 N, 173.5 E, 32 km (R) Near Islands			7 NUR eP 01 09 19 e 10 12 SOD eP 01 09 55 e 10 49 KJN eP 01 09 31 1.0 6.8 e 10 13 KEV iP 01 10 10.9 0.7 12.9 H: 01 03 02.8 36.2 N, 55.0 E, 33 km (R) Iran			
5	NUR eP 23 36 27 1.0 16.0 SOD iP 23 36 05.7 D KJN iP 23 36 12.7 D 0.8 9.1 KEV iP 23 36 00.7 D 0.9 18.5 H: 23 23 24.9 14.7 N, 146.2 E, 56 km Mariana Islands			7 SOD iP 02 41 47.0 D KJN iP 02 41 53.2 1.0 6.8 KEV iP 02 41 40.8 D 0.7 15.5 H: 02 29 03.9 13.9 N, 145.4 E, 57 km Mariana Islands			
6	NUR eP 01 28 40 0.8 7.2 KJN eP 01 28 13			7 NUR eP 03 41 50 7 KJN eP 06 58 35 7 NUR eP 07 42 51 e(SS) 57 08 SOD eP 07 42 41 KJN eP 07 42 34 H: 07 31 46.5 30.2 N, 129.0 E, 131 km East China Sea			
6	NUR ePP 14 43 10 ePS 52 24 ePKKP 53 25 ePPS 54 10 eSS 59 36 eSSS 15 03 28 SOD ePKKP 14 53 37 KJN ePKKP 14 53 33 H: 14 24 04.3 6.1 S, 149.1 E, 74 km New Britain region			7 NUR ePKP 13 21 08 0.6 6.3 e 24 30 SOD iP 13 21 20.3 epPKP 51 ePP 23 30 iSKP 24 28.3 KJN iP 13 21 15.6 0.7 9.7 KEV ePKP 13 21 24 H: 13 02 24.5 56.0 S, 27.6 W, 102 km South Sandwich Islands			
6	NUR iP 23 50 22.7 U 0.7 20.6 SOD iP 23 50 12.3 U cont.						



May		T	A	May		T	A
7	NUR eP 14 39 27 H: 14 32 37.0 41.2 N, 73.8 E, 30 km Kirgiz SSR			7	NUR eP 22 01 35		
7	NUR iP 14 47 22.1 0.8 23.0 KJN eP 14 47 53 H: 14 42 21.8 36.7 N, 26.9 E, 162 km Dodecanese Islands			7	NUR eP 23 27 47 KJN iP 23 27 36.0	1.0	7.8
7	NUR iPKP 16 03 06.0 U 1.1 142.8 SOD ePKP 16 02 49 KJN iPKP 16 02 54.3 D 1.1 62.6 H: 15 43 36 32.4 S, 178.4 W, 155 km (R) South of Kermadec Islands			8	NUR eSKS 00 21 04 eSKKS 22 00 eS 38 esS 23 30 eSP 24 22 e 29 28 eSS 30 24 eLQ 00 43 eLR 00 48 H: 23 56 11.6 22.2 S, 68.5 W, 84 km Northern Chile		
7	NUR iPKP 16 52 12.8 U 1.1 169.0 i 26.4 SOD ePKP 16 51 58 KJN iPKP 16 52 01.9 U 1.1 72.1 ePP 55 44 KEV ePKP 16 51 56 H: 16 32 30.6 32.4 S, 178.3 W, 33 km (R) South of Kermadec Islands			8	NUR eP 01 28 59 SOD iP 01 27 59.3 i 28 09.1 KJN iP 01 28 25.7 1.1 12.2 i 43.9 i 29 37.9 KEV iP 01 27 38.2 U 0.8 27.4 i 46.1 i 28 01.2 eS 31 55 H: 01 22 31.6 80.2 N, 122.9 E, 33 km (R) East of Severnaya Zemlya		
7	NUR iPKP 17 11 54.7 U 1.1 47.6 i 12 10.3 i 34.0 SOD ePKP 17 11 37 KJN iPKP 17 11 43.0 1.1 25.8 H: 16 52 11.9 32.5 S, 178.2 W, 33 km (R) South of Kermadec Islands			8	NUR iP 03 17 26.1 U 0.9 28.6 eS 27 08 SOD iP 03 17 13.5 U ipP 27.1 KJN iP 03 17 13.9 U 0.8 33.2 KEV iP 03 17 10.0 D 0.6 12.5 H: 03 05 38.5 18.4 N, 120.4 E, 56 km Luzon, P.I.		
7	NUR eP 19 22 05 H: 19 11 17 51.2 N, 178.1 E, 33 km (R) Rat Islands			8	NUR e 11 51 52 SOD ePKP 11 51 41 KJN e 11 51 56 H: 11 32 57.1 28.0 S, 70.8 W, 35 km Northern Chile		
7	NUR eP 20 40 19 1.0 10.0 KJN eP 20 40 10			9	NUR eP 04 16 03 SOD eP 04 15 43 KJN eP 04 15 50 H: 04 02 50.5 12.3 N, 144.0 E, 23 km South of Mariana Islands		
7	NUR eP 21 27 42						
7	NUR iP 21 31 54.2 D 1.1 35.7 i 32 08.6 KJN iP 21 31 42.5 D 0.9 11.3						
7	SOD eP 21 43 13 KJN eP 21 43 38						

May				T	A	May				T	A	
9	SOD	eP	09 50 42			SOD	iP	17 46 39.6				
	KJN	iP	09 50 26.2	0.9	5.8		i	54.7				
10	NUR	ePKP	00 09 37			KEV	iP	17 46 21.4	0.8	17.6		
		eSKP	12 30				i	35.0				
	KJN	ePKP	00 09 38	0.8	4.2		eS	53 14				
		H:	23 51 22.6				H:	17 37 38.3				
			23.4 S, 179.8 W, 555 km					61.4 N, 149.6 W, 58 km (R)				
			South of Fiji Islands					Southern Alaska				
10	KJN	iP	00 13 40.2	0.7	4.0	11	NUR	eP	22 39 22			
		H:	00 02 30				i	29.0				
			29.1 N, 131.6 E, 33 km (R)				eS	41 54				
			Ryukyu Islands region				e	42 16				
11	NUR	iP	05 50 03.4 D			SOD	iP	22 40 44.1				
	SOD	iP	05 50 43.3				eS	44 32				
		e	51 14			KEV	eP	22 41 07				
	KJN	iP	05 50 17.9 D	0.9	10.6		H:	22 35 59				
	KEV	eP	05 51 01					45.9 N, 26.9 E, 84 km				
		e	52 07					Rumania				
		H:	05 44 30.0			12	NUR	eP	00 39 02			
			39.9 N, 50.9 E, 33 km (R)				SOD	eP	00 38 31			
			Caspian Sea				H:	00 28 19				
11	NUR	iP	06 46 22.0 U					38.0 N, 138.8 E, 168 km				
		e	56					Honshu, Japan				
		e	47 10			12	NUR	eP	08 19 53	0.8	7.2	
	SOD	iP	06 46 16.1 U				ePP	24 20				
	KJN	iP	06 46 09.0 U	0.7	12.1		eLR	08 56.1				
		e	43			SOD	eP	08 19 40				
		e	47 12			KJN	iP	08 19 42.8	1.2	16.9		
	KEV	iP	06 46 19.0 U	0.5	6.8		KEV	eP	08 19 54			
		e	47 18				H:	08 05 57.2				
		H:	06 39 57.8					3.5 S, 137.9 E, 78 km				
			49.8 N, 77.9 E, 0 km (R)					West New Guinea				
			Eastern Kazakh SSR			12	NUR	eP	10 47 26	0.9	16.8	
11	NUR	iP	08 17 41.0				e	50 07				
	SOD	eP	08 17 25				ePP	51 31				
	KJN	eP	08 17 32	1.1	15.3		i	44.0				
11	KJN	iP	13 31 02.6 U	0.6	12.1		eSKS	57 52				
11	NUR	iP	17 47 29.2	1.0	72.0		eS	58 54				
		i	44.4				ePS	11 00 40				
		i	52.0				e	04 27				
		iPcP	48 15.1				eSS	06 06				
		eS	55 20				e	07 10				
		eScS	57 09				eSSS	09 38				
		eLQ	18 01.7				eLQ	11 15.5				
		eLR	18 04.2			SOD	iP	10 47 18.1				
						KJN	iP	10 47 18.1 U	1.2	76.1		
							e	48 47				
							ePP	51 29				

cont.

cont.

May		T	A	May		T	A		
14	NUR iPKP 02 08 05.9 D KJN ePKP 02 08 01 H: 01 48 42.4 27.6 S, 177.1 W, 77 km Kermadec Islands			16	NUR eP 00 12 34 ePP 16 50 eSKKS 23 44 eS 24 14 ePPS 27 12 e 28 50 eSS 31 38 eLQ 00 42.2 SOD eP 00 12 20 ePP 16 28 KJN eP 00 12 22 ePP 16 36 KEV eP 00 12 21 eSKKS 23 20 ePS 25 22 e 26 50 eSS 30 42 H: 23 58 34.4 4.1 S, 135.1 E, 33 km (R) West New Guinea region			0.9	10.1
14	NUR eP 17 01 10 SOD eP 17 00 20 KJN iP 17 00 45.0 H: 16 50 15.6 50.3 N, 177.7 E, 33 km (R) Rat Islands	1.2	31.4						
14	NUR ePKP 23 46 38 KJN ePKP 23 46 35 H: 23 28 13.7 20.7 S, 177.7 W, 467 km Fiji Islands region								
15	NUR ePKP 16 59 13 SOD ePKP 16 59 03 KJN ePKP 16 59 00 KEV iPKP 16 59 03.1 H: 16 39 02 48.0 S, 165.6 E, 15 km (R) South Island, N.Z.	1.2	28.5	16	NUR eP 01 41 20 SOD eP 01 42 21 KJN eP 01 41 52 H: 01 35 55 35.4 N, 28.0 E, 34 km (R) Eastern Mediterranean Sea				
15	NUR eP 18 48 28 i 38.0 SOD e 18 49 32 KJN eP 18 48 43 i 55.2 H: 18 43 07 40.6 N, 48.3 E, 33 km (R) Eastern Caucasus	0.5	4.0	16	NUR eP 03 19 42 KJN eP 03 19 30 KEV eP 03 19 05			0.9	13.4
15	NUR iP 21 11 58.3 D SOD iP 21 11 12.9 KJN iP 21 11 32.8 KEV eP 21 10 56 H: 21 01 17.7 52.3 N, 173.2 E, 10 km (R) Near Islands	1.0	50.0	16	SOD eP 04 29 11 KJN eP 04 29 02				
15	NUR ePKP 23 52 01 SOD ePKP 23 51 46 KJN iPKP 23 51 51.9 H: 23 33 12.4 16.1 S, 174.7 W, 253 km Tonga Islands			16	NUR eP 05 51 26 SOD eP 05 50 54 KJN iP 05 51 04.8 D H: 05 40 30.4 38.6 N, 140.8 E, 76 km Honshu, Japan	0.7	8.1		
				16	SOD eP 06 42 11 eS 43 58 KJN eP 06 42 56 eS 45 25 KEV eP 06 41 42 eS 43 11				
				16	NUR iP 11 34 54.8 i 58.0 eS 39 12	0.7	15.5		

cont.

May				May			
		T	A		T	A	
	KJN eP	11 35 19					ePPP 35 32
	i	40.2					e 50
	H:	11 29 41.5					eS 40 26
		38.2 N, 38.9 E, 28 km					e 31
		Turkey					ePS 52
16	NUR iP	11 45 23.0 U	0.7	18.1			eScS 41 28
	SOD eP	11 44 43					eSS 45 28
	KJN iP	11 44 58.9	0.9	4.8			eSSS 48 59
	KEV eP	11 44 30					eLQ 17 51.0
	H:	11 34 37.2					SOD iP 17 30 45.2 U
		45.6 N, 151.4 E, 11 km					ePPP 35 33
		Kurile Islands					eS 39 56
							i 40 10.0
16	NUR iP	11 48 45.0 D	0.9	25.2			ePS 22
	e	58 34					eP'P' 58 30
	eS	59 28					e 59 13
	eSS	12 05 30					KJN iP 17 30 46.0 U 1.0 1231.2
	SOD iP	11 48 35.0					e 33 41
	i	38.3					ePPP 35 37
	i	49.2					iS 40 00
	KJN iP	11 48 34.8 D	1.3	83.2			iPS 25
	i	50.2					e 59
	eSKS	58 56					eP'P' 58 26
	eS	59 13					e 59 16
	KEV eP	11 48 32					KEV iP 17 30 41.0 U 0.9 166.8
	e	56					ePP 33 34
	eSKS	58 50					ePPP 35 10
	eS	59 07					eS 39 50
	ePPS	12 00 28					ePS 40 13
	eSS	04 22					eSS 45 10
	eLQ	12 13					eSSS 47 40
	H:	11 35 46.0					eLQ 17 50.1
		5.3 N, 125.7 E, 36 km (R)					eLR 17 53.2
		Mindanao, P.I.					H: 17 19 25.9
							22.5 N, 121.3 E, 21 km
							Taiwan region
16	NUR eP	21 16 52					
	KJN eP	21 16 26					
	H:	21 06 07.9					
		51.5 N, 174.7 E, 31 km					
		Near Islands					
17	NUR eP	13 34 44					
	SOD eP	13 34 04					
	KJN eP	13 34 21					
	H:	13 24 03.7					
		46.8 N, 153.7 E, 35 km					
		Kurile Islands					
17	NUR iP	17 31 00.9 U	1.1	523.6			
	ePP	33 52					
		cont.					
17	NUR iP	20 31 40.8	0.9	42.0			
	SOD eP	20 30 54					
	KJN iP	20 31 13.3	1.1	20.9			
	H:	20 21 35					
		55.1 N, 165.8 E, 68 km					
		Komandorsky Islands					
18	NUR iP	01 16 24.7 D	1.2	68.4			
	eS	26 24					
	SOD iP	01 16 54.3 D					
	KJN iP	01 16 38.9 D	1.1	91.7			
	KEV eP	01 17 04	1.2	45.4			
	H:	01 04 14.6					
		17.6 S, 49.9 E, 33 km (R)					
		Malagasay Republic					

May		T	A	May		T	A
18	SOD eP 08 27 30 KJN eP 08 27 28 H: 08 14 36.2 0.1 N, 123.8 E, 178 km Northern Celebes	0.9	19.3	19	NUR eP 06 16 58 SOD eP 06 16 59 KJN eP 06 16 54 H: 06 03 58.9 6.5 S, 105.4 E, 74 km Sunda Strait	0.7	33.1
18	KJN iPKP 09 54 39.2 D H: 09 35 06 32.6 S, 178.1 W, 33 km (R) South of Kermadec Islands	0.8	14.4	19	NUR eSS 14 35 28 eSSS 39 14 H: 13 59 55.2 4.8 S, 152.3 E, 70 km New Britain region		
18	NUR eP 22 57 14 SOD eP 22 56 38 i 55.9 KJN iP 22 56 50.6 KEV eP 22 56 26 H: 22 46 31.7 43.7 N, 146.5 E, 45 km (R) Kurile Islands	1.1	20.9	19	NUR eP 18 06 51 KJN eP 18 06 27 H: 17 56 04.0 45.1 N, 151.5 E, 33 km (R) Kurile Islands	0.8	13.0
18	NUR ePKP 23 47 23 H: 23 28 15.6 32.6 S, 179.4 W, 365 km South of Kermadec Islands	1.0	20.5	19	NUR iP 22 17 57.7 U SOD iP 22 17 12.9 D KJN iP 22 17 31.9 H: 22 07 14.1 51.6 N, 175.2 E, 35 km Rat Islands	1.1	47.3
19	NUR iPKP 03 19 41.7 U KJN ePKP 03 19 34 H: 03 00 59.0 9.2 S, 159.0 E, 50 km Solomon Islands	0.8	28.8	19	NUR iP 22 28 38.5 KJN eP 22 28 14 H: 22 17 51.2 45.4 N, 151.7 E, 12 km Kurile Islands	0.9	14.5
19	NUR iP 03 21 47.0 U SOD eP 03 21 02 KJN eP 03 21 21 H: 03 11 12.5 52.4 N, 173.4 E, 49 km Near Islands	1.0	24.0	19	NUR ePKP 23 50 24 i 35.0 e 52 09 iSKP 53 22.5 iPKS 54 09.0 ePPP 56 58 SOD ePKP 23 50 19 i 23.0 eSKP 53 02 ePKS 48 KJN ePKP 23 50 19 i 27.4 epPKP 52 27 iSKP 53 05.9 iPKS 56.8 KEV iPKP 23 50 19.2 U iPKS 53 41.5 H: 23 32 14.0 20.8 S, 178.5 W, 552 km (R) Fiji Islands	0.9	109.2
19	NUR ePKP 04 40 47 i 52.5 eSKP 44 23 SOD ePKP 04 40 38 eSKP 44 00 KJN iPKP 04 40 42.5 e 41 08 eSKP 44 09 KEV ePKP 04 40 33 H: 04 21 26.7 22.5 S, 176.3 W, 33 km (R) South of Fiji Islands	0.9	31.9			0.9	178.0
		0.8	22.1			1.1	78.1

May				May			
			T	A		T	A
20	NUR	eP	00 55 40				
		ePKP	59 16				
		i	19.5	0.9	50.4		
		i	28.1	1.0	210.0		
		ePP	01 01 14				
		ePKS	02 30				
		e	06 58				
		e	08 08				
		eSP	11 11				
		eLQ	01 33.6				
	SOD	ePKP	00 59 06				
		i	12.4				
		ePP	01 00 48				
		eSKS	05 59				
	KJN	iPKP	00 59 08.4				
		eSKS	01 06 06				
	KEV	eP	00 55 22				
		ePKP	59 03				
		i	13.4	0.9	51.6		
		ePP	01 00 20				
		ePPP	02 04				
		eSKS	05 58				
		e	08 36				
		ePS	10 10				
		eSS	17 00				
		eSSS	21 08				
		eLQ	01 30				
		eLR	01 36.5				
		H:	00 40 10.9				
			14.7 S, 167.4 E, 16 km (R)				
			New Hebrides Islands				
20	NUR	iPKP	02 23 23.5 U	1.1	42.8		
	SOD	ePKP	02 23 11				
	KJN	iPKP	02 23 14.4	1.2	32.1		
	KEV	iPKP	02 23 06.8 U	1.0	39.0		
		H:	02 03 33.5				
			40.8 S, 175.9 E, 49 km				
			North Island, N.Z.				
20	NUR	eP	02 24 21				
	KJN	iP	02 24 10.4				
		H:	02 13 38.9				
			51.2 N, 173.7 E, 41 km (R)				
			Near Islands				
20	NUR	eP	14 18 59				
	KJN	eP	14 19 00				
		H:	14 06 55.6				
			1.8 N, 99.1 E, 73 km				
			Northern Sumatra				
20	NUR	iPKP	20 57 27.0	1.0	60.0		
		e	38				
		epPKP	53				
			cont.				
		ePP	21 01 10				
		eSS	20 30				
		eLQ	21 41.6				
	SOD	iPKP	20 57 18.0 U				
		ipPKP	48.2				
	KJN	iPKP	20 57 20.1 U	1.4	112.9		
		ipPKP	46.1				
	KEV	ePKP	20 57 15	1.1	71.4		
		H:	20 37 41.4				
			45.1 S, 167.6 E, 105 km				
			South Island, N.Z.				
21	NUR	eP	04 25 26				
	KJN	eP	04 25 07				
		H:	04 13 51				
			32.5 N, 142.6 E, 33 km (R)				
			South of Honshu, Japan				
21	NUR	eP	15 30 24				
21	KJN	ePKP	16 14 28				
		H:	15 54 20				
			48.5 S, 166.7 E, 33 km				
			West coast of South Island				
21	NUR	iPKP	19 00 55.2 D	1.0	30.0		
	SOD	iPKP	19 00 38.8 D				
	KJN	iPKP	19 00 45.3	0.9	16.4		
		H:	18 41 08				
			35.6 S, 179.6 W, 33 km (R)				
			East of North Island, N.Z.				
22	KJN	eP	00 04 00				
		H:	23 53 43				
			51.9 N, 174.5 E, 33 km (R)				
			Near Islands				
22	NUR	eP	03 19 08	0.8	14.4		
	SOD	iP	03 18 52.7				
	KJN	iP	03 18 53.3				
	KEV	eP	03 18 48				
		H:	03 05 43.6				
			1.3 N, 126.3 E, 25 km				
			Molucca Passage				
22	NUR	iP	06 03 06.0				
	SOD	eP	06 02 26				
	KJN	iP	06 02 42.5	0.6	12.1		
22	NUR	eP	09 23 58				
	SOD	eP	09 23 41				
	KJN	iP	09 23 48.5				

May						May			
				T	A				
						T			A
22	NUR	ePKP	10 49 47						
		i	52.0						
		i	50 00.1	1.0	190.0				
		epPKP	52 10						
		iSKP	43.3						
		ePKS	53 33						
		epPKS	55 40						
		esPKS	56 36						
	SOD	ePKP	10 49 36						
		i	47.1						
		iSKP	52 23.8						
		ePKS	53 13						
	KJN	ePKP	10 49 36						
		i	52.4	1.0	307.8				
		epPKP	52 02						
		ePP	27						
		iSKP	32.9						
		e	53 20						
		iPKS	22.4						
		e	46						
		epPKS	55 28						
	KEV	ePKP	10 49 36						
		i	44.0	1.1	123.8				
		ePP	51 54						
		eSKP	52 16						
		ePKS	53 06						
		esPP	54 40						
		esPKS	56 08						
		H:	10 31 39.5						
			21.1 S, 178.7 W, 578 km (R)						
			Fiji Islands region						
22	KJN	ePKP	13 38 06						
		H:	13 19 04.5						
			14.5 S, 167.1 E, 27 km						
			New Hebrides Islands						
22	NUR	ePKP	14 29 48						
	KJN	ePKP	14 29 41						
		H:	14 10 45.0						
			14.7 S, 167.4 E, 17 km						
			New Hebrides Islands						
22	KJN	eP	15 37 40						
		H:	15 25 11						
			14.1 S, 13.9 W, 33 km (R)						
			South Atlantic Ridge						
22	NUR	eP	16 21 40	1.1	26.2				
	SOD	iP	16 22 11.8						
	KJN	eP	16 21 59	1.2	37.2				
		H:	16 09 29.5						
			14.1 S, 13.8 W, 33 km (R)						
			South Atlantic Ridge						
22	NUR	iP	19 03 22.8						
	SOD	iP	19 02 49.2 U						
	KJN	iP	19 03 00.7 D	0.6	20.2				
		H:	18 52 28.1						
			40.0 N, 141.8 E, 38 km						
			Honshu, Japan						
22	KJN	ePKP	20 12 37						
		H:	19 53 23.8						
			14.7 S, 167.5 E, 24 km						
			New Hebrides Islands						
22	NUR	eP	22 34 28			0.9			13.0
	SOD	eP	22 34 12						
	KJN	iP	22 34 19.2			0.9			17.4
22	NUR	eP	23 46 42						
	SOD	eP	23 46 25						
	KJN	iP	23 46 32.2	1.0	7.9				
23	SOD	eP	00 26 07						
	KJN	eP	00 25 55						
		Moscow:							
		H:	00 18 40						
			40.0 N, 77.8 E						
			Tien Shan, Sinkiang						
23	NUR	eP	01 47 38						
	KJN	eP	01 47 12						
		H:	01 37 00.2						
			52.3 N, 172.8 E, 35 km (R)						
			Near Islands						
23	NUR	iP	04 09 10.0			0.8			9.9
	SOD	iP	04 08 36.2 U						
	KJN	iP	04 08 48.2 U			0.9			24.1
	KEV	iP	04 08 26.0			0.9			20.2
		H:	03 58 11						
			39.9 N, 143.5 E, 33 km (R)						
			Honshu, Japan						
23	SOD	eP	07 15 46						
	KJN	eP	07 16 00						
		H:	07 04 16.8						
			28.6 N, 142.8 E, 33 km (R)						
			Bonin Islands region						
23	NUR	iP	07 58 43.7 U	1.1	45.2				
		i	50.5						
		eSS	08 13 52						

cont.

May				May						
		T	A		T	A				
	SOD iP	07 59	14.1 U		24	SOD eP	03 45 45			
	KJN iP	07 59	02.5 D	1.1	48.7	KJN eP	03 46 03	1.2	13.5	
	KEV eP	07 59	25	1.0	18.0	ePcP	48 47			
	H: 07 46 33.7					H: 03 39 22				
	14.1 S, 13.9 W, 33 km (R)					74.3 N, 132.4 E, 15 km (R)				
	South Atlantic Ridge					Laptev Sea				
23	KJN iP	14 56	39.9	0.7	12.1	24	KJN eP	05 15 36	1.0	10.3
	H: 14 45 52					H: 05 02 11.8				
	36.4 N, 140.9 E, 48 km (R)					9.5 S, 113.0 E, 67 km				
	Honshu, Japan					South of Java				
23	NUR eP	16 16	04			24	NUR eP	13 59 35	1.0	20.0
	SOD eP	16 15	56				SOD eP	13 59 02		
	KJN eP	16 15	52	1.1	10.6		KJN iP	13 59 14.1 U	0.8	22.1
	KEV eP	16 15	51				KEV eP	13 58 51		
	H: 16 05 32.7					H: 13 48 28.8				
	24.0 N, 102.5 E, 33 km (R)					38.0 N, 141.6 E, 29 km (R)				
	Yunnan Province, China					Honshu, Japan				
23	NUR iP	23 56	52.4	1.2	479.9	24	SOD eP	16 53 19		
	ePcP	57 24					KJN iP	16 53 18.3		
	ePP	59 18				H: 16 40 14				
	ePPP	24 01 04				0.1 S, 124.3 E, 72 km				
	e	02 31				Molucca Sea				
	eS	05 33								
	ePS	06 10				24	NUR iP	23 33 36.7 U	1.0	66.0
	eSS	10 00					i	44.3		
	eSSS	13 06					ePP	36 48		
	eP'P'	25 29					ePPP	38 40		
	eLR	24 16.7					eS	43 53		
	SOD iP	23 56	07.5 D				eScS	44 10		
	i	31.1					ePS	54		
	i	58 21.3					eSS	49 15		
	eS	24 04 07					eSSS	52 40		
	eP'P'	25 43					eLQ	23 57.5		
	KJN iP	23 56	27.2 U	1.1	305.8		SOD iP	23 33 24.0 U		
	iPcP	57 10.0					i	32.1		
	i	35.7					eS	43 29		
	e	01 56					KJN iP	23 33 25.0 U	0.8	118.0
	eS	04 45					ePP	36 35		
	eScS	06 16					eS	43 24		
	eP'P'	25 32					KEV iP	23 33 20.4 U	0.9	60.5
	KEV iP	23 55	51.1	1.0	150.0		i	30.3		
	i	57 07.8					eS	43 22		
	ePP	58 07					ePS	44 16		
	ePPP	59 24				H: 23 21 10.6				
	eS	24 03 36				13.0 N, 124.5 E, 33 km				
	e	04 08				Samar, P.I.				
	eSS	07 28								
	eSSS	09 48				25	KJN eP	01 42 20		
	eLR	24 13.1				H: 01 30 11.9				
	H: 23 46 12.0					22.0 N, 144.2 E, 98 km				
	52.2 N, 175.0 E, 22 km (R)					Volcano Islands region				
	Near Islands									

May				T	A	May				T	A
25	NUR	iP	13 18 37.0	0.7	19.4	26	NUR	iPKP	07 02 38.2 U	0.7	42.6
		e	20 32				SOD	iPKP	07 02 22.8 D		
		ePPP	22 56				KJN	iPKP	07 02 28.6 U	1.0	55.9
		eS	27 24					i	39.8		
		ePPS	28 00					H:	06 42 53.9		
		eSS	31 52						35.7 S, 180.0 E, 63 km		
		eLR	13 39.8						North Island, N.Z.		
	SOD	eP	13 17 53			26	NUR	iPKP	08 53 10.2 D	0.9	30.2
		iPcP	18 38.8					i	22.1		
	KJN	eP	13 18 12	0.6	10.5		SOD	iPKP	08 52 53.6		
		i	19 36.3				KJN	iPKP	08 53 00.5	0.9	15.4
	KEV	eP	13 17 36					i	12.3		
		ePP	19 48					H:	08 33 26.5		
		ePPP	21 06						35.7 S, 179.9 E, 48 km		
		eS	25 30						North Island, N.Z.		
		eScS	27 20								
		eSS	29 30								
		eLR	13 35.5			26	NUR	eP	14 03 53		
		H:	13 07 49.7				SOD	eP	14 04 41		
			51.3 N, 178.7 E, 40 km (R)				KJN	iP	14 04 13.2 U	0.9	14.5
			Rat Islands					H:	13 58 03.0		
									35.3 N, 44.6 E, 54 km		
									Iraq		
25	NUR	ePKP	17 43 25	1.0	18.0	26	NUR	iP	19 26 32.0 D	1.0	34.0
	SOD	iPKP	17 43 08.4 D				SOD	eP	19 25 46		
	KJN	iPKP	17 43 14.6 U	1.0	18.2		KJN	iP	19 26 06.0	0.8	17.0
		H:	17 23 41.0				KEV	eP	19 25 30		
			35.8 S, 179.4 E, 31 km					H:	19 15 52.6		
			North Island, N.Z.						52.0 N, 175.0 E, 37 km (R)		
									Rat Islands		
25	NUR	ePKP	18 53 48			26	NUR	iPKP	20 02 53.0	1.0	86.0
		ePKS	57 08					epPKP	03 25		
		eSS	19 13 20					eSKP	06 15		
		eSSS	18 14					ePKS	28		
		eLQ	19 28.1					eSKS	09 40		
	KJN	ePKP	18 53 39	1.1	15.3			eSKKS	10 36		
		H:	18 34 28.4					e	11 18		
			17.0 S, 175.9 E, 16 km					ePKKP	12 37		
			Fiji Islands region					ePS	14 26		
								eSS	21 06		
								eSSS	26 08		
								eLQ	20 36.5		
25	NUR	e	21 15 20			SOD	iPKP	20 03 04.3 U			
		e	19 10				ipPKP	36.1			
		e	24 30				ePP	05 14			
		eLQ	21 41				iSKP	06 12.5			
							ePKS	28			
26	NUR	eP	01 07 14	0.7	5.2		KJN	iPKP	20 03 00.3	1.0	125.4
		H:	00 56 34.6				ipPKP	31.9			
			47.5 N, 154.5 E, 13 km				esPKP	43			
			Kurile Islands				iPP	05 00.1			
							iSKP	06 22.1			
26	NUR	eP	05 11 37								
	SOD	eP	05 11 21								
	KJN	eP	05 11 32								
		H:	04 58 39.2								
			13.7 N, 90.6 W, 39 km (R)								
			Near coast of Guatemala								

cont.

May						May					
				T	A					T	A
	esPKS	07 08				KEV	eP	19 39 08			
KEV	iPKP	20 03 08.8 U	1.1	59.5				H: 19 29 25			
	epPKP	41						53.7 N, 156.7 W, 33 km (R)			
	iPP	05 30.3	1.0	40.0				South of Alaska			
	eSKP	06 24				27	NUR	iP	22 40 28.0 U	0.8	25.9
	esPKS	07 03					SOD	eP	22 39 43		
	eSS	22 52					KJN	iP	22 40 02.6	0.9	11.6
	H: 19 44 10.9							H: 22 29 52.7			
	56.1 S, 27.6 W, 120 km (R)							52.4 N, 173.5 E, 41 km (R)			
	South Sandwich Islands							Near Islands			
26	NUR	ePKP 22 19 45	0.7	31.0		28	KJN	ePKP 01 11 07			
		epPKP 20 18						H: 00 53 01.4			
	KJN	ePKP 22 19 34						18.1 S, 177.9 W, 571 km			
		i 35.3						Fiji Islands region			
		epPKP 20 03				28	NUR	eP 03 59 06			
	H: 22 00 11.2							eS 04 00 47			
	33.5 S, 179.8 E, 102 km (R)							i 01 42.1			
	South of Kermadec Islands						SOD	eP 03 59 10			
26	NUR	iPKP 23 38 26.0	0.8	20.2				eS 04 00 53			
		KJN ePKP 23 38 15						e 01 38			
		KEV ePKP 23 38 06	1.0	16.0			KJN	eP 03 59 20			
	H: 23 19 11.2							eS 04 01 05			
	28.5 S, 178.1 W, 169 km							e 58			
	Kermadec Islands						KEV	e 03 59 40			
26	NUR	eP 23 42 47	0.6	8.8				eS 04 01 17			
	H: 23 32 03.9							e 58			
	45.4 N, 151.3 E, 33 km (R)							BCIS:			
	Kurile Islands							H: 03 57 03			
27	NUR	eP 13 07 33						62 3/4 N, 6 1/4 E			
	H: 12 56 51							Coast of Norway			
	53.9 N, 164.9 W, 33 km (R)					28	NUR	eP 05 28 20			
	Unimak Island region						SOD	eP 05 28 02			
27	KJN	eSKP 13 27 13						i 12.1			
	H: 13 05 55							KJN	eP 05 28 03		
	25.5 S, 179.9 W, 467 km							i 17.3			
	South of Fiji Islands							KEV	eP 05 28 04		
27	NUR	eP 14 07 20	0.8	11.5				i 08.4			
		KJN eP 14 06 55						H: 05 16 36.3			
	H: 13 56 47.5							21.0 N, 120.9 E, 38 km			
	52.7 N, 171.8 E, 33 km (R)							Philippine Islands			
	Near Islands					28	KJN	eP 06 43 55			
27	NUR	iP 19 40 11.2 U	1.0	28.0		28	NUR	eP 07 13 53			
		i 20.0					SOD	eP 07 13 12			
	SOD	eP 19 39 25					KJN	eP 07 13 28			
	KJN	eP 19 39 47	1.0	13.7				H: 07 03 19			
		cont.						47.5 N, 152.9 E, 33 km (R)			
								Kurile Islands			

May

T A

May

T A

KEV eP 11 52 15
 ePP 56 22
 eSKS 12 02 46
 eSKKS 03 10
 ePS 05 06
 e 24
 ePPS 57
 eSS 10 48
 eLR 12 27.5

H: 11 38 28.0
 7.5 S, 128.7 E, 37 km
 Banda Sea

31 NUR eP 15 10 42
 SOD eP 15 11 13
 KJN eP 15 11 00
 i 03.2 1.0 21.7
 H: 14 59 37.4
 0.0 S, 18.7 W, 33 km (R)
 Central Mid-Atlantic Ridge

31 SOD eP 20 29 27
 KJN eP 20 29 40
 H: 20 20 15
 60.4 N, 146.9 W, 33 km (R)
 Southern Alaska

31 NUR eP 23 37 31
 SOD eP 23 36 44
 KJN eP 23 36 56
 H: 23 27 10
 57.4 N, 152.7 W, 33 km (R)
 Kodiak Island region

31 SOD ePKP 23 56 53
 KJN ePKP 23 56 56
 H: 23 37 09
 42.9 S, 171.3 E, 33 km (R)
 South Island, N.Z.

December 7, 1965

Urmes Luosto
 Aili Huovila

Change of instrumental constants.

The free period of the long period seismometers is reduced to 15 seconds:

NUR June 2, 1965
KEV June 24, 1965

June		T	A	June		T	A
1	NUR ePKP 02 09 49 KJN ePKP 02 09 43 H: 01 51 07.0 14.9 S, 167.1 E, 197 km New Hebrides Islands			1	KJN eP 15 53 25 H: 15 41 23 18.7 N, 144.9 E, 308 km Mariana Islands		
1	NUR iP 04 43 07.3 U 1.0 30.0 ipP 29.3 eS 51 26 eScS 52 52 SOD iP 04 43 08.8 U ipP 29.5 i 36.4 e 57 KJN iP 04 43 01.6 D 1.0 43.3 ipP 23.7 iS 51 17.4 eScS 52 46 esScS 53 29 KEV iP 04 43 12.3 1.0 40.0 ipP 32.8 i 39.4 e 50 H: 04 32 45.3 20.2 N, 94.9 E, 57 km Burma			1	NUR eP 23 49 58 eS 52 51 SOD eP 23 49 02 e 10 eS 51 13 KJN eP 23 49 34 eS 52 05		
1	NUR iP 08 01 20.0 SOD iP 08 01 28.3 D ePcP 02 44 KJN iP 08 01 17.4 U 1.1 25.0 ePcP 02 36 KEV iP 08 01 34.0 U 0.8 64.8 H: 07 52 26.1 28.5 N, 83.2 E, 33 km (R) Nepal			2	NUR ePKP 05 31 16 SOD ePKP 05 31 03 i 13.1 epPKP 33 21 iSKP 52.8 ePKS 34 42 KJN ePKP 05 31 03 i 17.9 0.9 53.0 ipPKP 33 26.9 iSKP 34 00.9 iPKS 49.9 KEV iPcP 05 31 09.0 0.9 18.5 iSKP 33 46.8 H: 05 12 59.1 23.5 S, 180.0 E, 539 km (R) South of Fiji Islands		
1	NUR eP 15 26 03 ePP 27 34 eS 31 50 SOD eP 15 26 19 KJN eP 15 26 22 KEV eP 15 26 32 eS 32 50 H: 15 18 31.2 37.8 N, 26.6 W, 5 km (R) Azores Islands			2	NUR ePKP 15 03 53 i 04 04.0 U 0.9 42.0 iSKP 06 36.3 ePKS 07 34 SOD ePKP 15 03 51 iSKP 06 13.5 KJN ePKP 15 03 49 i 56.9 0.7 50.1 iSKP 06 23.6 iPKS 07 21.9 KEV iPcP 15 03 47.8 U 0.9 38.6 H: 14 45 55.8 17.9 S, 179.5 W, 637 km (R) Fiji Islands		

June				June			
	T	A		T	A		
5	KJN eP	12 20 25		KJN eP	20 37 04		
	H:	12 09 05.2		e	38 26		
		7.7 N, 36.1 W, 33 km (R)		H:	20 29 52		
		Central Mid-Atlantic Ridge			36.7 N, 71.2 E, 33 km (R)		
5	KJN ePKP	12 58 20			Afghanistan-USSR border		
	H:	12 39 17.4		6	NUR eP	23 24 48	0.8 7.2
		60.2 S, 18.4 W, 33 km (R)			SOD eP	23 24 13	
		Atlantic Ocean			e	29	
5	NUR ePKP	13 19 18			KJN iP	23 24 25.7	1.1 16.7
	KJN ePKP	13 19 25			H:	23 14 04	
	H:	13 00 22.9				41.8 N, 142.0 E, 44 km	
		59.9 S, 18.5 W, 33 km (R)				Hokkaido, Japan	
		Atlantic Ocean		7	NUR iP	05 01 24.8	0.8 7.2
5	NUR eP	13 29 01			KJN eP	05 01 01	
6	NUR iP	03 29 52.2			H:	04 50 50.7	
	H:	03 20 05				46.9 N, 152.7 E, 74 km	
		47.2 N, 145.2 E, 367 km				Kurile Islands	
		Sea of Okhotsk		7	NUR iP	06 36 27.0	0.9 43.7
6	SOD eP	09 05 34			KJN iP	06 36 15.0 U	0.6 7.3
	KJN eP	09 05 29			H:	06 17 23	
6	NUR eP	09 49 25				31.1 S, 179.2 W, 280 km	
	SOD eP	09 48 19				Kermadec Islands	
	KJN iP	09 48 54.1 D	0.9 12.5	7	NUR iP	10 31 47.2	0.9 18.5
	i	49 13.8			SOD iP	10 31 50.4 D	
	KEV eP	09 47 56			KJN iP	10 31 44.8 D	0.8 20.4
	e	49 19			KEV eP	10 31 52	
	H:	09 45 42			H:	10 18 57	
		73.3 N, 0.2 W, 33 km (R)				4.5 S, 103.2 E, 33 km (R)	
		Greenland Sea				Southern Sumatra	
6	NUR eP	11 32 49		7	NUR eP	13 52 52	1.1 16.7
	SOD iP	11 32 32.8			SOD eP	13 53 38	
	KJN iP	11 32 34.1	0.9 13.5		KJN iP	13 53 14.5	1.2 22.0
	KEV eP	11 32 25			KEV eP	13 53 54	1.2 28.5
	H:	11 21 18.1			H:	13 43 57.2	
		22.8 N, 121.7 E, 44 km				11.4 N, 41.5 E, 40 km	
		Taiwan region				Ethiopia	
6	NUR eP	15 51 56	1.0 12.0	7	KJN eP	15 44 35	
	H:	15 46 40					
		35.6 N, 23.7 E, 86 km		8	NUR eP	06 25 47	
		Crete			KJN iP	06 25 27.2 U	0.7 19.4
6	NUR eP	20 37 04			KEV eP	06 25 07	
	SOD eP	20 37 20			H:	06 14 36	
		cont.				36.1 N, 141.3 E, 55 km	
						Honshu, Japan	

June				T	A	June				T	A
8	NUR	iPKP	08 04 37.2	0.9	25.8	9	NUR	ePKP	17 17 38		
	KJN	ePKP	08 04 25				KJN	ePKP	17 17 31		
	H: 07 45 46						H: 16 58 40.3				
	31.9 S, 179.9 E, 432 km						19.0 S, 175.7 W, 195 km				
	Kermadec Islands						Tonga Islands				
8	KJN	eP	12 53 47			10	NUR	ePKP	04 54 46		
8	NUR	eS	14 03 34				H: 04 35 40.3				
		eSS	09 20				18.3 S, 174.6 W, 131 km (R)				
	KJN	eP	13 52 42				Tonga Islands				
	KEV	eP	13 52 15			10	NUR	iP	05 56 07.6 D	0.8	122.0
		eS	14 02 28				epP	41			
	H: 13 39 58.2						ePP	57 32			
	23.3 N, 108.5 W, 33 km (R)						SOD	iP	05 56 24.4 D		
	Gulf of California						ePP	57 56			
8	NUR	iP	23 35 06.0 D	0.6	17.9		KJN	iP	05 56 08.0 D	1.0	139.1
	SOD	iP	23 34 26.3 D				iPP	57 21.4			
	KJN	iP	23 34 41.7 D	0.8	11.0		e	06 04 00			
		ePcP	35 23				KEV	iP	05 56 33.9 U	1.0	78.0
	H: 23 24 26.3						e	57 50			
	46.8 N, 152.5 E, 24 km						ePP	58 09			
	Kurile Islands						eS	06 02 40			
							H: 05 49 00.0				
9	NUR	eP	01 22 09				35.9 N, 70.5 E, 125 km				
	SOD	eP	01 21 24				Hindu Kush				
	KJN	eP	01 21 43			10	NUR	iP	15 29 21.0 D	0.8	36.8
9	NUR	eP	12 42 16				e	47			
	KJN	eP	12 41 55				ipP	52.2			
	H: 12 31 24.5						eS	33 24			
	50.4 N, 175.2 E, 33 km (R)						eScP	36 22			
	Rat Islands						KJN	iP	15 29 50.0 D	0.9	9.6
9	NUR	iP	13 37 28.1	0.7	47.5		H: 15 24 18.4				
		i	37.7				36.6 N, 26.7 E, 154 km				
	KJN	iP	13 37 02.3 U	0.9	21.2		Dodecanese Islands				
		i	10.4			10	NUR	eP	20 40 33		
	KEV	eP	13 36 26				SOD	eP	20 40 45		
	H: 13 26 52.2						KJN	eP	20 40 46	0.9	9.6
	52.6 N, 173.2 E, 25 km (R)						H: 20 33 59.3				
	Near Islands						46.4 N, 27.6 W, 33 km (R)				
							North Atlantic Ridge				
9	NUR	ePKP	16 14 13			10	NUR	eP	23 25 16		
		i	14.7	0.8	114.7		KJN	eP	23 24 51		
		epPKP	15 06				H: 23 14 25.7				
	SOD	ePKP	16 13 56				51.3 N, 178.8 W, 36 km				
	KJN	iPKP	16 14 02.7	0.5	12.5		Andreanof Islands				
		i	08.8			11	NUR	ePKP	01 53 48		
	KEV	ePKP	16 13 58				KJN	ePKP	01 53 56		
	H: 15 54 56						H: 01 34 20				
	31.8 S, 179.6 W, 200 km (R)						35.2 S, 107.5 W, 31 km (R)				
	Kermadec Islands						Easter Island Cordillera				

June				T	A	June				T	A
11	NUR	eP	02 06 01	0.9	10.3	11	NUR	eP	03 57 37		
	KJN	eP	02 05 47				SOD	eP	03 57 04		
							KJN	eP	03 57 14		
11	NUR	iP	02 48 15.4 U	1.0	151.7	11	NUR	iP	04 03 40.8 U	0.8	25.0
		i	25.0				SOD	eP	04 03 03		
		ePPP	52 06					i	04 37.3		
		eS	56 58				KJN	iP	04 03 17.9	0.7	12.1
		eScS	58 04					ePcP	04 09		
		eSS	03 01 22				KEV	eP	04 02 52	0.9	17.2
	SOD	iP	02 47 30.2 U				Moscow:				
		i	39.8				H: 03 53 17				
		i	46.4				45.8 N, 142.2 E				
	KJN	iP	02 47 49.9 U	1.1	84.8		Sea of Okhotsk				
		i	59.7								
	KEV	iP	02 47 15.0			11	SOD	eP	04 09 09		
		i	30.8								
	H: 02 37 34.7					11	NUR	iP	04 11 30.2 D	0.8	19.1
	51.8 N, 174.1 E, 35 km (R)						SOD	eP	04 10 52		
	Near Islands							i	11 18.0		
11	NUR	eP	03 25 18	1.0	12.3		KJN	eP	04 11 07	1.1	16.7
	H: 03 14 37.7										
	51.7 N, 173.9 E, 41 km					11	NUR	eP	04 14 00		
	Near Islands						KJN	eP	04 13 52		
11	NUR	iP	03 44 25.8	1.0	159.9	11	NUR	eP	04 25 35		
		i	38.2				SOD	eP	04 24 58		
		ePP	47 04				KJN	eP	04 25 10		
		ePcS	49 14				H: 04 14 51.4				
		e	52 48				44.3 N, 149.0 E, 48 km (R)				
		ePS	53 44				Kurile Islands				
		eP'P'	04 13 06			11	NUR	eP	04 55 38		
	SOD	iP	03 43 48.4					i	38.9	0.7	43.6
		i	45 04.7				SOD	iP	04 54 59.4		
		i	47 04.8					iPcP	55 45.9		
		eP'P'	04 13 21				KJN	iP	04 55 14.3	0.9	11.6
	KJN	iP	03 44 03.6	1.1	100.1		KEV	iP	04 54 48.2	1.0	26.7
		eScS	53 51					ePcP	55 36		
		eP'P'	04 13 20				H: 04 44 53.1				
	KEV	iP	03 43 37.0	1.0	26.7		44.5 N, 149.2 E, 42 km				
		i	56.6				Kurile Islands				
		i	44 21.3			11	NUR	eP	05 08 40		
		e	46 28				KJN	eP	05 08 18		
		ePS	52 08				H: 04 57 54				
		eP'P'	04 13 20				44.2 N, 149.5 E, 36 km				
	H: 03 33 44.9						Kurile Islands				
	44.7 N, 148.7 E, 47 km (R)					11	NUR	eP	05 10 22	0.5	9.5
	Kurile Islands						SOD	eP	05 09 43		
11	NUR	iP	03 55 17.0 D	0.7	42.2		KJN	eP	05 09 58		
	SOD	iP	03 54 39.1				KEV	eP	05 09 25		
	KJN	iP	03 54 53.7 D	0.6	14.5		H: 04 59 36				
	KEV	iP	03 54 26.0	0.7	17.2		44.2 N, 149.5 E, 43 km				
							Kurile Islands				

June						June						
				T	A					T	A	
11	NUR	iP	10 51 55.1	U	0.6	28.2	11	NUR	eP	15 50 18	0.8	14.7
		i	52 08.4					KJN	eP	15 49 55	1.0	10.3
	SOD	eP	10 51 17					H: 15 39 36.3				
		i	30.4					44.5 N, 149.2 E, 55 km (R)				
	KJN	iP	10 51 31.6	0.8	18.7			Kurile Islands				
	H: 10 41 10.5											
	44.1 N, 149.3 E, 64 km (R)											
	Kurile Islands											
11	NUR	eP	11 17 23				11	NUR	eP	15 52 59		
	KJN	eP	11 17 00					SOD	iP	15 52 58.9	D	
	H: 11 06 41											
	44.5 N, 149.0 E, 52 km (R)											
	Kurile Islands											
11	NUR	eP	12 10 40				11	NUR	eP	16 32 01		
								KJN	eP	16 31 35	0.9	6.7
								H: 16 21 19.5				
								51.7 N, 176.4 E, 59 km				
								Rat Islands				
11	NUR	iP	12 10 46.4	0.7	19.8		11	NUR	eP	17 22 54		
		eS	19 30					SOD	eP	17 22 18		
		eSS	24 18					KJN	eP	17 22 31		
		eSSS	27 12					H: 17 12 09.7				
	KJN	eP	12 10 24	0.7	10.5			44.2 N, 149.0 E, 50 km (R)				
	H: 12 00 00.8											
	44.2 N, 149.1 E, 33 km (R)											
	Kurile Islands											
11	NUR	iP	12 48 06.0				11	NUR	eP	18 40 31	0.6	6.4
	H: 12 37 24											
	44.4 N, 149.0 E, 51 km (R)											
	Kurile Islands											
11	NUR	eP	12 56 21	0.6	6.4		11	NUR	iP	20 55 05.7	0.6	12.8
	KJN	eP	12 55 57					SOD	eP	20 54 28		
	H: 12 45 37											
	44.7 N, 149.0 E, 33 km (R)											
	Kurile Islands											
11	NUR	eP	12 57 29	0.5	6.8		11	NUR	eP	20 54 42	1.0	9.1
	KJN	eP	12 57 05					H: 20 44 20.3				
	44.1 N, 148.9 E, 45 km (R)											
	Kurile Islands											
11	NUR	eP	12 57 29	0.5	6.8		11	NUR	iP	23 03 14.9	0.5	13.5
	KJN	eP	12 57 05					KJN	eP	23 02 50		
	H: 12 47 03.6											
	45.9 N, 149.5 E, 140 km											
	Kurile Islands											
11	NUR	eP	13 05 10				11	NUR	iP	23 03 14.9	0.5	13.5
	H: 12 54 26											
	44.0 N, 150.1 E, 56 km (R)											
	Kurile Islands											
11	NUR	eP	13 54 52				12	KJN	eP	00 27 50		
	H: 13 44 19											
	46.6 N, 149.7 E, 55 km (R)											
	Kurile Islands											
11	NUR	eP	13 54 52				12	NUR	iP	00 31 42.3	0.9	15.5
								SOD	eP	00 31 03		
								KJN	iP	00 31 18.1	1.1	16.7
	H: 00 20 55.7											
	44.2 N, 148.9 E, 30 km (R)											
	Kurile Islands											

June			T	A	June			T	A
12	NUR eP	02 13 49			12	NUR iP	06 14 18.8 D	0.6	18.8
	H:	02 03 02.8				SOD eP	06 13 41		
		44.2 N, 149.0 E, 30 km (R)				KJN eP	06 13 54	1.2	84.5
		Kurile Islands				H:	06 03 34.8		
							44.3 N, 149.0 E, 48 km (R)		
							Kurile Islands		
12	NUR iPKP	03 03 20.7	0.5	11.9	12	NUR eP	06 28 52		
	KJN iPKP	03 03 13.3				KJN iP	06 28 30.7		
	H:	02 44 39.1				H:	06 19 19		
		10.7 S, 166.2 E, 125 km (R)					41.9 N, 131.1 E, 487 km		
		Santa Cruz Islands					Sea of Japan		
12	NUR iP	03 20 32.0	0.7	23.2	12	NUR iP	06 57 11.8 U	0.5	23.8
	SOD iP	03 19 54.7				SOD iP	06 56 34.2 D		
	KJN iP	03 20 08.8 D	1.0	28.5		KJN eP	06 56 47		
	H:	03 09 44.6				i	48.4		
		43.9 N, 149.1 E, 33 km (R)				H:	06 46 26.4		
		Kurile Islands					44.2 N, 149.1 E, 40 km (R)		
							Kurile Islands		
12	NUR eP	05 39 11			12	NUR eP	07 07 43		
	SOD eP	05 38 33				KJN eP	07 07 20		
	KJN eP	05 38 48				H:	06 57 05		
	H:	05 28 24.9					45.6 N, 149.5 E, 45 km (R)		
		44.3 N, 149.6 E, 33 km (R)					Kurile Islands		
		Kurile Islands							
12	NUR iP	05 39 25.6			12	KJN ePKP	07 10 40		
	SOD eP	05 38 46				H:	06 51 33.2		
	i	48.0					20.9 S, 173.8 W, 33 km (R)		
	KJN iP	05 39 00.8					Tonga Islands		
	e	25							
	KEV eP	05 38 35			12	NUR eP	08 01 58		
	H:	05 28 40.3				KJN eP	08 01 35		
		44.2 N, 149.8 E, 41 km (R)				H:	07 51 15		
		Kurile Islands					43.9 N, 149.0 E, 62 km (R)		
							Kurile Islands		
12	NUR eP	05 42 06	0.6	7.5	12	NUR eP	09 31 14		
	SOD eP	05 41 28							
	KJN eP	05 41 43							
12	NUR iP	05 51 43.9 U	0.9	134.4	12	KJN eP	18 07 46		
	i	49.8				H:	17 55 09.5		
	i	57.0					6.3 S, 105.8 E, 202 km		
	ePPP	55 48					Sunda Strait		
	eS	06 00 40							
	SOD eP	05 51 05			12	NUR iP	18 53 23.2	0.5	19.8
	i	06.8				SOD eP	18 52 45		
	KJN iP	05 51 19.4	1.0	124.3		KJN iP	18 52 59.9 D	0.6	9.5
	i	26.7				H:	18 42 39.1		
	e	33					44.0 N, 149.1 E, 61 km (R)		
	ePcP	58					Kurile Islands		
	KEV iP	05 50 52.8	0.7	13.2	12	NUR iP	18 56 29.8 U	0.9	52.1
	H:	05 41 00.3				SOD iP	18 55 51.0		
		44.0 N, 149.1 E, 64 km (R)							
		Kurile Islands							

cont.

June						June					
				T	A					T	A
15	NUR	iP	08 08	52.2							
	SOD	iP	08 08	49.1							
	KJN	iP	08 08	43.2	D	1.6				74.8	
		ePcP	09 49								
	KEV	iP	08 08	50.4	D	0.9				16.8	
			H: 07 59 20.4								
			29.7 N, 95.3 E, 33 km (R)								
			India-China border								
15	NUR	iPKP	09 40	14.9	U	0.8				56.2	
		i		17.0							
		i		23.0							
	SOD	ePKP	09 40	00							
		i		02.7							
	KJN	iPKP	09 40	06.3	U	0.8				24.6	
		i		10.5							
		i		25.9							
		i		49.6							
	KEV	iPKP	09 39	54.1		1.2				71.3	
			H: 09 20 29.8								
			37.9 S, 177.5 E, 58 km								
			North Island, N.Z.								
15	NUR	eP	13 02	57		0.6				12.5	
	KJN	eP	13 02	34		0.8				6.8	
	KEV	eP	13 02	07							
			H: 12 52 10.1								
			44.1 N, 149.3 E, 33 km (R)								
			Kurile Islands								
15	NUR	ePKP	13 11	20		0.6				10.0	
			H: 12 51 52.6								
			27.2 S, 175.9 W, 53 km								
			Kermadec Islands								
15	NUR	eP	13 29	32							
	KJN	eP	13 29	07							
			H: 13 18 44.0								
			43.9 N, 149.5 E, 33 km (R)								
			Kurile Islands								
15	NUR	eP	14 29	45							
	SOD	eP	14 29	07							
	KJN	eP	14 29	22		1.2				13.5	
	KEV	eP	14 28	54							
			H: 14 18 55.4								
			44.2 N, 149.3 E, 19 km								
			Kurile Islands								
15	NUR	iP	15 25	38.3		0.8				27.4	
	SOD	iP	15 24	53.2	U						
		iPcP	25	44.0							
	KJN	iP	15 25	12.8	U	0.8				17.8	
		ePcP	55								
			cont.								
	KEV	eP	15 24	36							
			H: 15 14 59.9								
			52.2 N, 174.8 E, 35 km (R)								
			Near Islands								
15	NUR	eP	16 17	55							
			H: 16 07 09.1								
			44.0 N, 149.3 E, 33 km (R)								
			Kurile Islands								
15	KJN	eP	16 37	02							
			H: 16 26 47								
			51.3 N, 175.2 E, 42 km (R)								
			Rat Islands								
15	NUR	iP	16 50	09.3	U	1.0				56.0	
		eS	57	20							
		eSS	17 00	40							
		e	01	22							
	SOD	eP	16 50	48							
		i	51	07.3							
	KJN	iP	16 50	25.4	U	1.2				45.6	
		i		44.7							
		iPP	52	17.9							
	KEV	iP	16 51	02.8	U	0.7				10.3	
			H: 16 41 12.5								
			13.9 N, 51.7 E, 33 km (R)								
			Eastern Gulf of Aden								
15	NUR	eP	19 13	03					1.0	20.0	
	SOD	eP	19 12	17							
	KJN	iP	19 12	38.1	U						
	KEV	eP	19 12	01							
			H: 19 02 11.8								
			51.7 N, 174.2 W, 37 km (R)								
			Andreanof Islands								
15	NUR	ePKP	23 29	45							
		e	30	52							
		ePP	32	46							
		ePPP	34	52							
		eSS	50	14							
		e	52	25							
		eSSS	55	22							
		eLR	24	14.0							
	SOD	ePKP	23 29	34							
	KJN	ePKP	23 29	23							
		ePP	32	03							
		ePKS	33	03							
	KEV	ePKP	23 29	32							
		e	30	33							
		ePP	31	26							
		ePKS	33	07							
		eSKS	38	25							
			cont.								

June							June							
					T	A					T	A		
	KJN	iP	19 15	20.6 D	1.0	39.9		KJN	iP	13 56	45.1	1.1	25.0	
		e		30					ePP		58 08			
		iPcP	16	03.3				KEV	iP	13 57	27.0 U	0.9	18.5	
	KEV	eP	19 14	45				H:	13 49	34.3				
			H: 19 05	09.1					29.7 N, 51.3 E,	45 km				
			52.0 N, 175.0 E,	67 km					Southern Iran					
			Near Islands											
17	NUR	eP	20 23	41	0.9	23.5	18	NUR	eP	15 10	06			
		i		46.0				SOD	iP	15 10	19.3			
		e		50			18	NUR	ePP	23 03	20			
		eS		30 50					eSKS		09 37			
		e		32 34					eSKKS		10 16			
		eSS		34 24					ePS		12 18			
		eLQ	20	36.5				KEV	ePP	23 03	22			
	SOD	eP	20 23	43					eSKS		09 40			
		i		48.1					eSKKS		10 18			
	KJN	eP	20 23	34	1.2	33.8			ePS		12 24			
		i		39.2				H:	22 45	16.4				
	KEV	iP	20 23	47.0 U	1.0	30.0			11.1 S, 73.6 W,	111 km (R)				
		i		51.0					Peru					
		eS		31 03				18	NUR	eP	23 09	35		
			H: 20 14	48.6					SOD	eP	23 09	05		
			32.0 N, 87.8 E,	8 km					KJN	iP	23 09	15.3 D	0.8	
			Tibet						KEV	eP	23 08	55	16.1	
18	NUR	iP	01 27	27.0 D	1.0	50.0		H:	22 58	15				
	SOD	iP	01 27	28.3 D					34.5 N, 141.2 E,	51 km				
		i		32.8					Honshu, Japan					
	KJN	iP	01 27	19.6 D	1.2	50.7	19	KJN	eP	05 22	23	0.8	13.6	
	KEV	iP	01 27	32.5 U	1.0	40.0	19	NUR	iP	06 48	45.5 U	0.9	126.0	
		i		36.7					i		49.7			
			H: 01 18	35.2					eS		57 24			
			32.0 N, 87.7 E,	19 km					eSS	07 01	30			
			Tibet					SOD	eP	06 48	00			
18	SOD	eP	03 44	24				KJN	iP	06 48	19.9 U	1.0	61.6	
18	NUR	iP	08 27	30.0	0.9	20.2		KEV	iP	06 47	43.8 U	1.0	34.0	
		i		44.0	0.9	33.6			eS		55 25			
	SOD	iP	08 27	30.6					eSS		59 15			
		i		44.8				H:	06 38	12.6				
	KJN	iP	08 27	23.0 D	1.2	37.2			52.3 N, 172.0 E,	54 km				
		i		37.5					Near Islands					
		iPcP	28	17.5				19	NUR	iP	09 21	36.0	0.8	13.0
	KEV	iP	08 27	33.1 D	0.9	20.2	19	NUR	iP	12 36	47.8	0.6	13.8	
		i		47.7					SOD	eP	12 37	41		
			H: 08 17	37.6					KJN	iP	12 37	06.3	0.8	
			25.0 N, 93.8 E,	46 km					KEV	eP	12 38	02	8.5	
			Eastern India					H:	12 31	59.9				
18	NUR	eP	13 56	29					42.9 N, 46.5 E,	33 km (R)				
		e		57 21					Eastern Caucasus					

cont.

June							June								
				T	A					T	A				
19	NUR	iP	13 00 25.3	0.7	19.4	KJN	iP	16 40 35.9 D	1.0	21.7					
	SOD	eP	12 59 40			KEV	iP	16 41 13.8 D	0.9	37.8					
	KJN	iP	12 59 58.9	1.0	30.8	H: 16 31 19.5									
	KEV	eP	12 59 25			13.3 N, 50.4 E, 33 km (R)									
	H: 12 50 23.0					Eastern Gulf of Aden									
	53.8 N, 160.5 E, 100 km (R)														
	Kamchatka					20	NUR	eP	18 16 15	1.2	34.2				
								eS	25 40						
19	NUR	eP	21 26 22			SOD	iP	18 15 34.1 U							
	KJN	eP	21 25 59				i	38.8							
	H: 21 15 39					KJN	eP	18 15 53							
	44.6 N, 149.2 E, 33 km (R)						i	58.5							
	Kurile Islands					KEV	eP	18 15 24							
						H: 18 04 35.7									
19	NUR	eP	22 19 14			42.8 N, 126.5 W, 33 km (R)									
						Off coast of Oregon									
20	NUR	iP	02 08 07.8 U	1.1	45.2	20	NUR	iP	18 18 18.8 U	0.8	24.5				
		eS	16 44				SOD	eP	18 18 34						
		eSS	21 42				KJN	iP	18 18 18.1 U	0.7	10.5				
		eSSS	24 42					epP	56						
	SOD	eP	02 07 29				e	19 17							
	KJN	iP	02 07 43.2 D	1.1	29.2		KEV	iP	18 18 42.8						
	KEV	eP	02 07 16			H: 18 11 19									
		eS	15 07			36.5 N, 71.0 E, 183 km									
		eSS	19 25			Afghanistan-USSR border									
	H: 01 57 24.8					20	NUR	eP	19 29 04						
	44.6 N, 149.2 E, 40 km (R)						SOD	eP	19 28 37						
	Kurile Islands						KJN	eP	19 28 51	0.9	6.7				
20	NUR	iP	02 09 06.5	0.8	15.8		KEV	eP	19 28 34						
	SOD	eP	02 08 27			H: 19 16 21.2									
	KJN	eP	02 08 39			25.4 N, 109.4 W, 33 km (R)									
	KEV	eP	02 08 05			Gulf of California									
20	NUR	iP	04 18 29.0	0.8	8.6	20	NUR	eP	23 58 43	0.8	11.5				
	SOD	eP	04 18 15												
	KJN	iP	04 18 17.8 D	0.9	19.3	21	NUR	iP	00 28 36.8	1.0	254.0				
	KEV	iP	04 18 13.5 U				i	37.2							
20	SOD	eP	06 15 31				ePP	30 08							
	KJN	eP	06 15 31	0.6	9.7		ePcP	49							
	H: 06 01 57.7						eS	34 30							
	6.8 S, 129.3 E, 149 km						eSS	36 50							
	Banda Sea						e	37 47							
20	KJN	eP	08 06 08			SOD	iP	00 29 13.3 U							
	H: 07 53 41.4						iPcP	31 01.4							
	10.4 N, 126.1 E, 45 km						iPPP	22.5							
	Philippine Islands						eS	35 38							
20	NUR	iP	16 40 19.0 D	0.9	21.8	KJN	iP	00 28 50.3	1.0	324.9					
		eS	47 32				iPP	30 25.7							
	SOD	iP	16 40 58.6 D				iPcP	44.5							
	cont.						i	33 21.3							
							eS	34 56							
							cont.								

June				T	A	June				T	A	
	KEV	iP	00 29 28.0	1.2	236.5	22	KJN	eP	21 27 12			
		i	37.2					H:	21 13 27			
		i	30 18.3						2.3 S, 138.5 E, 57 km			
		ePP	31 14						West New Guinea			
		eS	36 05									
		eSS	39 18			23	NUR	iP	00 00 52.7 U	1.1	123.8	
		eLR	00 42.5					i	01 09.6			
	H:	00 21 14.5						ePP	04 22			
		28.1 N, 56.0 E, 28 km						ePPP	06 18			
		Southern Iran						eSKS	11 10			
21	NUR	iP	01 37 56.9 U	1.0	22.0			eS	36			
		e	38 50					ePS	12 28			
	SOD	eP	01 38 34				SOD	iP	00 00 43.2 U			
		iPP	40 24.2					i	45.0			
	KJN	iP	01 38 10.2 U	0.9	20.2			e	52			
		e	39 09					ePP	03 58			
	KEV	eP	01 38 47					eSKS	11 03			
	H:	01 30 35.7						ePS	12 12			
		28.3 N, 56.0 E, 33 km (R)						eSS	16 42			
		Southern Iran					KJN	iP	00 00 43.4 U	1.0	319.2	
21	SOD	iP	11 23 22.8					i	53.2			
		i	29.3					e	03 47			
	KJN	iP	11 23 01.8 U	0.9	15.4			ePP	04 04			
	H:	11 12 04						eS	11 08			
		3.9 S, 35.1 E, 33 km (R)						e	42			
		Tanganyika						H:	23 48 07.1			
21	KJN	eP	13 31 53	0.7	8.9				7.1 N, 123.5 E, 60 km			
	H:	13 20 34							Mindanao, P.I.			
		7.4 N, 34.7 W, 33 km (R)					23	NUR	iPKP	11 18 53.0	0.7	45.2
		Central Mid-Atlantic Ridge						i	19 08.2	0.9	21.8	
21	SOD	eP	23 55 34					KJN	ePKP	11 18 42		
	KJN	eP	23 55 17					i	49.3			
		e	35					H:	10 59 18.1			
									32.3 S, 179.2 W, 82 km			
22	SOD	eP	01 07 30						South of Kermadec Islands			
	H:	00 54 20.0					23	NUR	iP	11 19 42.4 U	0.9	319.2
		0.1 S, 124.4 E, 33 km (R)						i	50.1			
		Molucca Sea						ePP	22 08			
22	NUR	iP	05 57 03.7					eS	28 14			
		e	08					ePS	28			
	SOD	iP	05 57 12.0 U					eScS	29 40			
	KJN	iP	05 56 59.8 U	0.6	17.0			eSS	32 22			
		e	57 24					eP'P'	48 48			
		e	46					SOD	iP	11 18 54.8 U		
	KEV	eP	05 57 19					i	20 43.8			
	H:	05 49 18.9						eS	26 47			
		36.3 N, 77.7 E, 28 km						eScS	28 39			
		Kashmir-Sinkiang border										

cont.

June				T	A	June				T	A
24	NUR	ePKP	14 27 42			25	SOD	iP	08 00 11.2		
		i	52.1	0.9	60.2		KJN	iP	08 00 06.3	0.8	5.8
		epPKP	28 18								
		eSKP	31 18			25	SOD	eP	09 33 23		
		ePKS	25				H:	09 21 00			
	SOD	ePKP	14 27 37					1.2 N, 99.1 E, 33 km (R)			
		epPKP	58					Northern Sumatra			
		eSKP	30 59								
		ePKS	31 08			25	NUR	iP	13 03 10.7		
	KJN	ePKP	14 27 32				SOD	eP	13 02 58		
		i	42.1	1.0	46.6		KJN	iP	13 02 59.9	0.5	25.9
		ipPKP	28 08.3				H:	12 50 29.7			
		eSKP	31 07					9.6 N, 126.3 E, 70 km			
		ePKS	14					Mindanao, P.I.			
	KEV	ePKP	14 27 34	0.9	31.9						
	H:	14 08 31.2				25	SOD	eP	21 54 11		
		23.6 S, 176.7 W, 91 km (R)					KJN	iP	21 54 23.3 D	1.0	19.4
		South of Fiji Islands					H:	21 43 31.9			
								35.8 N, 140.9 E, 65 km			
24	NUR	eP	14 47 55	0.5	9.5			Honshu, Japan			
	KJN	eP	14 47 13			26	NUR	eP	02 08 38		
							SOD	eP	02 07 54		
24	NUR	eP	16 39 03								
	KJN	eP	16 38 40			26	NUR	iP	02 18 37.8	0.6	10.0
	H:	16 28 50					SOD	eP	02 18 01		
		44.5 N, 142.0 E, 174 km					KJN	eP	02 18 13		
		Hokkaido, Japan									
24	NUR	iP	18 10 53.5	0.6	12.5	26	NUR	eP	16 59 10		
	SOD	eP	18 10 16				SOD	eP	16 58 46		
	H:	18 00 06.3					KJN	iP	16 58 52.5 D	0.7	9.7
		44.1 N, 149.3 E, 33 km (R)					KEV	eP	16 58 41		
		Kurile Islands					H:	16 47 50.7			
								29.8 N, 130.4 E, 34 km (R)			
24	NUR	eP	23 20 17					Ryukyu Islands			
		i	28.8			26	SOD	iP	22 07 35.5		
		eS	30 06					i	43.1		
	SOD	eP	23 20 08								
		i	14.3			26	SOD	iP	22 12 47.6		
	KJN	eP	23 20 08					i	55.4		
		i	11.9				KJN	eP	22 12 38		
		i	23.0					e	46		
	KEV	eP	23 20 08				KEV	e	22 13 00		
		e(S)	29 41				H:	22 01 27			
	H:	23 08 40.4						9.3 N, 93.9 E, 89 km			
		20.1 N, 120.8 E, 33 km (R)						Nicobar Islands			
		Philippine Islands									
25	NUR	eP	07 57 32			27	NUR	ePKP	01 14 52		
	SOD	iP	07 56 44.0				SOD	ePKP	01 14 37		
	KJN	eP	07 57 07				KJN	iPKP	01 14 35.6 U	0.9	28.0
	H:	07 47 25.1						eSKP	18 23		
		59.5 N, 144.6 W, 22 km									
		Gulf of Alaska									

cont.

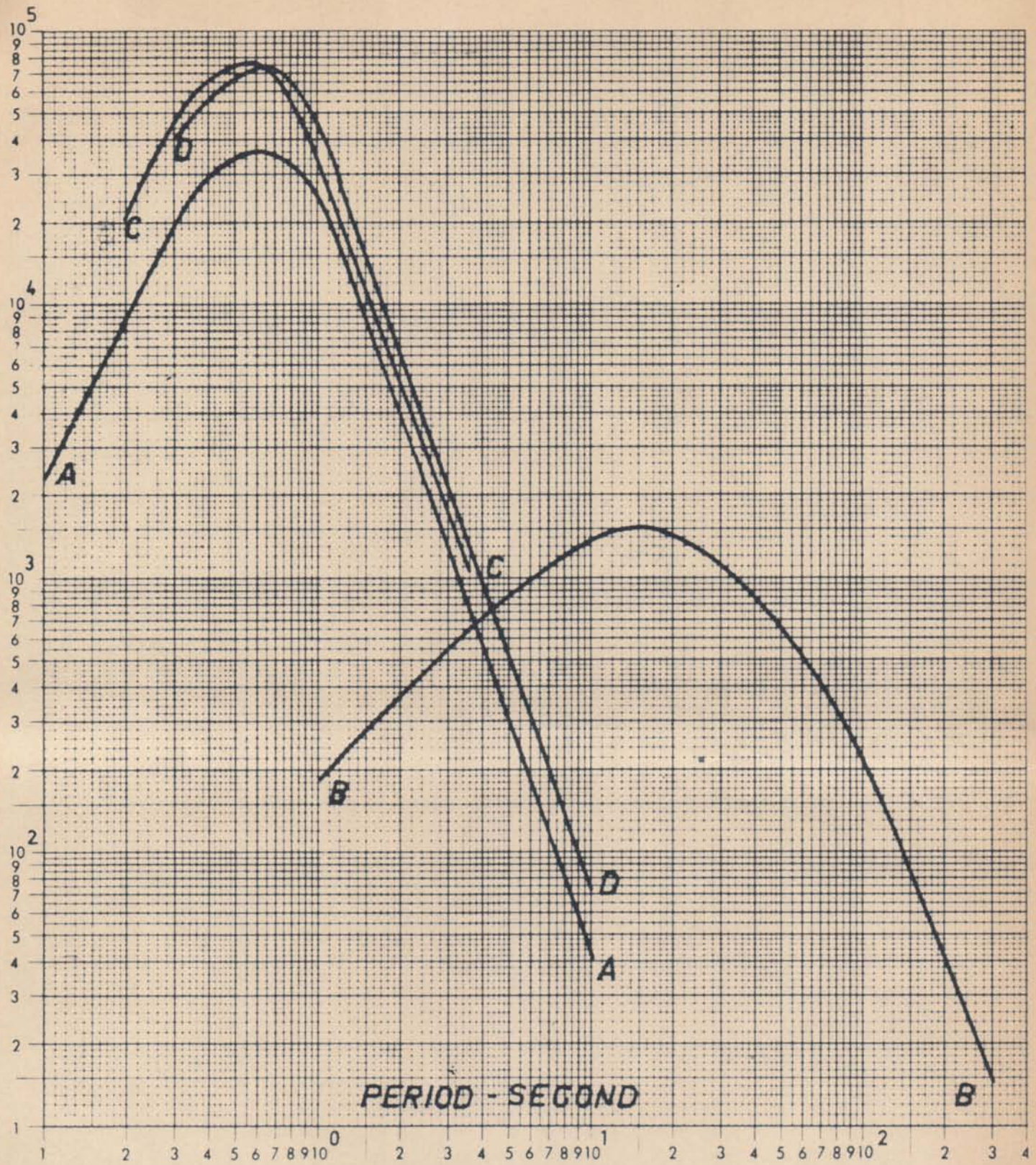
June				June			
		T	A			T	A
	KEV ePKP 01 14 41			27	NUR iP 11 34 47.1 D	0.7	11.9
	H: 00 55 10.4				SOD iP 11 33 59.2		
	33.7 S, 179.0 W, 33 km (R)				KJN iP 11 34 23.5 D	0.6	9.7
	Kermadec Islands				KEV iP 11 33 42.0		
27	SOD iP 01 15 55.3 D				H: 11 24 50		
	i 16 03.8				60.3 N, 140.9 W, 39 km		
	KEV iP 01 16 00.5	1.0	20.5		Southeastern Alaska		
	i 08.0			27	NUR iP 11 47 37.0 U	1.2	38.0
	H: 01 04 23.8				eS 56 56		
	9.2 N, 94.1 E, 8 km				eSS 12 01 42		
	Nicobar Islands				SOD iP 11 47 21.0 U		
27	SOD iP 01 20 13.2 D				e 40		
	i 21.4				i 48 06.1		
	i 28.0				KJN iP 11 47 22.4 U	1.2	71.0
	KJN iP 01 20 04.8				i 44.2		
	e 13				i 50.2		
	KEV eP 01 20 26	0.7	7.9		KEV eP 11 47 17		
					i 37.8		
					H: 11 36 08.6		
27	NUR eP 07 35 24				23.8 N, 121.5 E, 24 km		
	SOD eP 07 34 58				Taiwan		
	KJN iP 07 35 06.3			27	NUR iP 14 56 23.0 D	0.7	18.5
	H: 07 24 30				SOD eP 14 55 37		
	29.6 N, 138.2 E, 471 km				KJN iP 14 55 57.3 D	1.0	18.2
	South of Honshu, Japan				KEV eP 14 55 21		
27	NUR ePP 10 05 23				H: 14 45 42.1		
	ePS 15 08				52.0 N, 176.6 E, 51 km		
	SOD iPKP 10 04 39.6 U				Rat Islands		
	KJN iPP 10 05 54.6			27	NUR eP 17 48 15		
	KEV iPKP 10 04 45.1	1.2	43.8		SOD eP 17 48 02		
	H: 09 45 48.0				KJN eP 17 48 05		
	54.5 S, 5.6 E, 33 km (R)				i 10.1		
	Bouvet Island				KEV eP 17 48 02		
27	NUR iP 11 18 57.0 D	1.1	53.7		H: 17 35 13.0		
	eS 27 08				4.9 N, 127.5 E, 85 km		
	SOD iP 11 18 08.8				Talau Islands		
	e 19 19			27	KJN eP 17 53 07		
	KJN iP 11 18 32.7 U	1.0	34.2	27	SOD eP 18 53 45		
	iPcP 19 31.9				KJN eP 18 53 55		
	KEV iP 11 17 52.2 D	1.0	28.7		H: 18 42 59		
	H: 11 08 55.9				33.1 N, 139.9 E, 145 km		
	60.3 N, 141.2 W, 12 km (R)				South of Honshu, Japan		
	Southeastern Alaska			27	NUR eP 22 11 02		
27	SOD eP 11 31 37				SOD eP 22 10 37		
	e 45				KJN eP 22 10 37		
	KJN eP 11 31 45				i 44.4		
	e 52				cont.		
	H: 11 20 39						
	30.5 N, 132.7 E, 26 km (R)						
	Shikoku, Japan						

June				June							
			T	A		T	A				
	KEV	eP	22 10 31	0.8	7.4	29	NUR	iPKP	02 25 12.8		
			H: 21 59 35				KJN	iPKP	02 25 05.4 U	0.9	14.5
			30.2 N, 132.7 E, 10 km						H: 02 07 18.1		
			Shikoku, Japan						13.8 S, 170.6 E, 636 km		
28	SOD	eP	00 18 42			29	NUR	iP	04 34 35.5	0.9	21.8
	KJN	eP	00 18 46				SOD	iP	04 35 13.3 D		
			H: 00 07 32.1				KJN	iP	05 35 01.7 D	1.0	26.2
			23.6 N, 121.5 E, 31 km					i	22.9		
			Taiwan						H: 04 27 57.4		
28	NUR	ePKP	03 52 10	1.0	28.0				36.5 N, 12.2 E, 33 km (R)		
		ePP	54						North Atlantic Ocean		
		eSKS	58 48								
		ePS	04 02 24			29	NUR	iPKP	15 06 15.4	0.8	50.4
		eSS	08 46				KJN	ePKP	15 06 03		
		eSSS	12 10						H: 14 46 42.9		
	SOD	iP	03 47 54.0 U						30.8 S, 178.2 W, 70 km (R)		
	KJN	iP	03 47 59.9 U						Kermadec Islands		
		i	48 11.8								
		ePKP	52 04								
	KEV	eP	03 47 49			29	NUR	eP	15 46 05		
			H: 03 33 36.5					i	09.0		
			5.1 S, 153.0 E, 50 km				SOD	eP	15 47 05		
			New Ireland region				KJN	eP	15 46 37		
28	SOD	iP	15 56 05.0					i	50.2		
		i	18.1						H: 15 40 28.7		
	KJN	iP	15 56 12.5 U	1.0	12.5				34.2 N, 26.3 E, 16 km		
			H: 15 44 53.8						Crete		
			23.9 N, 121.6 E, 33 km (R)			30	SOD	eP	00 11 08		
			Taiwan								
28	NUR	ePKP	18 15 50			30	NUR	eP	03 06 44		
		e	59	0.7	14.2			ePP	10 51		
		eSKP	18 38					eSKS	17 28		
	SOD	ePKP	18 15 46					ePS	19 40		
		iSKP	18 18.4					eSS	24 45		
	KJN	iPKP	18 15 51.4	0.9	25.1		SOD	iP	03 06 35.6		
		eSKP	18 27					ePP	10 37		
		e	38				KJN	iP	03 06 34.9	0.7	8.1
		ePKS	19 21					i	43.3		
			H: 17 57 39.7					ePP	10 32		
			21.0 S, 178.9 W, 562 km				KEV	eP	03 06 35		
			Fiji Islands region					ePP	10 22		
29	NUR	eP	02 15 06	1.3	30.7			eSKS	17 14		
	SOD	eP	02 14 28					ePS	19 06		
	KJN	iP	02 14 42.6 D	1.4	30.1			eSS	24 18		
			H: 02 04 22.6						H: 02 53 14.0		
			44.4 N, 149.4 E, 33 km (R)						1.6 S, 126.7 E, 33 km		
			Kurile Islands						Molucca Sea		

June				T	A	June				T	A
30	NUR	eP	03 16 14			30	NUR	iP	12 46 51.3 D	1.0	46.0
	SOD	iP	03 15 53.6				SOD	iP	12 46 06.1 D		
	KJN	iP	03 15 57.9 D	0.9	26.0		KJN	iP	12 46 25.0 D		
	H: 03 04 53						KEV	iP	12 45 51.0 D	0.9	15.1
	26.0 N, 126.6 E, 109 km						H: 12 36 40.8				
	Ryukyu Islands						53.7 N, 160.5 E, 33 km (R)				
							Kamchatka				
30	SOD	eP	08 23 27			30	NUR	iP	17 21 33.5 D	0.9	28.6
		e	34				SOD	iP	17 20 48.2 D		
30	NUR	iP	08 44 12.6 U	1.0	240.0		KJN	iP	17 21 08.1	0.9	26.0
		i	21.2				KEV	eP	17 20 32		
		ePPP	48 26				H: 17 10 53.1				
		eS	52 54				51.8 N, 176.5 E, 59 km				
		ePS	53 14				Rat Islands				
		eScS	54 08								
	SOD	iP	08 43 27.2 U								
		i	41.0								
		i	55.1								
		iPcP	44 16.0								
	KJN	iP	08 43 46.8 U	0.9	146.5						
		i	55.4								
		i	44 18.0								
	KEV	iP	08 43 11.9 U	0.9	43.7						
		i	44 02.5								
		iPcP	08.1								
		ePPP	46 36								
		eLR	09 00.0								
	H: 08 33 31.8										
	51.7 N, 176.5 E, 60 km										
	Rat Islands										
30	SOD	iP	09 02 23.2 U								
	KJN	iP	09 02 13.8	0.9	12.5						

January 26, 1966

Urmas Luosto
Aili Huovila



RESPONSE CURVES 1965

- Instruments of the standard stations:**
 A-A Short-period seismographs, NUR and KEV
 B-B Long -period seismographs, NUR (since June 2, 1965)
 KEV (since June 24, 1965)
- Other instruments:**
 C-C Benioff Z, SOD
 D-D Benioff Z, N and E, KJN (since Oct 6, 1965)

July

July

			T	A		
	e		12	28		
	ePPP		13	32		
	e		14	16		
	eS		18	07		
	eScS		19	24		
	eSS		22	30		
	iP'P'		37	45.8		
	i			53.7		
	eLR	21	30.0			
SOD	iP	21	08	37.3	U	
	eS		16	52		
	eScS		18	20		
	iP'P'		38	07.5		
	i			22.0		
KJN	iP	21	08	59.2	U	
	eS		17	29		
	eScS		18	52		
	iP'P'		38	00.0		
	i			08.6		
KEV	iP	21	08	21.1	U	
	ePP		10	35		
	ePPP		11	52		
	e		13	14		
	e		16	00		
	eS			23		
	eScS		18	12		
	iP'P'		38	14.8		
	eLR	21	25.8			
H: 20 58 40.0						
53.1 N, 167.7 W, 59 km (R)						
Fox Islands						
2	SOD	iP	21	42	25.0	
	KJN	iP	21	42	32.0	
	KEV	eP	21	42	19	
3	NUR	iP	02	28	37.0	D 1.0 28.0
	i			45.0		
	ePP		29	32		
	eS		33	44		
	eLR	02	36.7			
SOD	iP	02	28	37.3	D	
	i			46.0		
KJN	iP	02	28	44.8	D 1.2 101.4	
	i			53.0		
KEV	eS	02	33	48		
H: 02 22 18.6						
52.7 N, 32.1 W, 36 km						
North Atlantic Ocean						
3	KJN	eP	05	47	30	
H: 05 40 57						
52.7 N, 32.2 W, 33 km (R)						
North Atlantic Ocean						

			T	A		
3	NUR	iP	11	36	44.4	
	ePcP			37	21	
	eS			45	22	
	eScS			46	27	
	eSS			49	38	
SOD	iP	11	36	40.6	D	
	i			37	07.5	
KJN	iP	11	36	35.8	D 0.7 38.8	
	i			57.0		
KEV	iP	11	36	43.7	U 0.7 23.8	
	eS			45	16	
	eSS			49	30	
H: 11 26 11.6						
22.6 N, 101.4 E, 33 km (R)						
Burma-China border						
3	NUR	eP	15	35	16	0.8 13.0
SOD	iP	15	34	46.9		
KJN	iP	15	34	56.2	U 0.8 17.0	
H: 15 24 11						
35.2 N, 139.7 W, 125 km						
Honshu, Japan						
3	NUR	iP	21	25	41.6	0.7 12.9
SOD	eP	21	24	12		
	eS			25	44	
KJN	iP	21	24	54.8	0.8 21.2	
	i			59.8		
	eS			27	01	
KEV	eP	21	23	49		
	eS			24	59	
4	NUR	eP	06	48	35	
SOD	eP	06	48	38		
KJN	iP	06	48	32.4	0.7 7.3	
5	NUR	iP	01	48	41.0	D 0.8 13.0
SOD	iP	01	48	03.4		
KJN	iP	01	48	17.9	D 0.9 13.5	
	e			51	05	
H: 01 37 52.9						
43.9 N, 149.3 E, 33 km (R)						
Kurile Islands						
5	KJN	eP	03	24	50	
5	NUR	eP	05	40	36	0.8 11.5
SOD	eP	05	40	33		
KJN	eP	05	40	41	1.0 11.4	
H: 05 34 09						
52.8 N, 34.3 W, 33 km (R)						
North Atlantic Ocean						

July

July

				T	A
6	NUR	iP	05 09 00.2 D	1.0	32.0
		ePcP	47		
	SOD	eP	05 08 13		
	KJN	iP	05 08 33.5 U	1.0	18.2
		i	39.1		
	H: 04 58 55.7				
	55.1 N, 162.1 E, 33 km (R)				
	Kamchatka				
6	SOD	eP	05 15 27		
	KJN	iP	05 15 24.5	1.0	12.5
6	KJN	eP	05 27 50		
	H: 05 15 14.2				
	7.3 N, 126.6 E, 97 km				
	Mindanao, P.I.				
6	NUR	eP	06 50 03		
	SOD	eP	06 49 26		
	KJN	eP	06 49 40		
	H: 06 39 25.0				
	44.6 N, 148.3 E, 56 km (R)				
	Kurile Islands				
6	SOD	eP	13 19 43		
	KJN	eP	13 19 44		
	H: 13 06 59.0				
	7.4 N, 127.0 E, 33 km (R)				
	Philippine Islands				
6	NUR	eP	13 28 16	0.8	14.4
	H: 13 21 07.2				
	36.6 N, 73.0 E, 165 km				
	Northwestern Kashmir				
6	NUR	iP	13 39 40.0	0.9	11.8
		e	40 12		
	SOD	eP	13 40 42		
	KJN	iP	13 40 12.8	0.9	14.8
	KEV	iP	13 41 03.8	1.0	12.6
	H: 13 34 16.1				
	34.8 N, 25.7 E, 62 km				
	Crete				
6	KJN	ePKP	15 08 33	0.8	5.2
	H: 14 49 31.4				
	59.6 S, 26.2 W, 63 km				
	South Sandwich Islands				
6	NUR	iP	15 39 03.5 U	0.7	38.7
	SOD	iP	15 38 17.8		
	KJN	iP	15 38 37.6 U	0.9	16.7

cont.

				T	A
	KEV	eP	15 38 01		
	H: 15 28 33.6				
	52.9 N, 171.8 E, 47 km				
	Near Islands				
6	SOD	eP	16 39 10		
	KJN	eP	16 39 06		
	H: 16 26 01				
	7.7 S, 107.8 E, 73 km				
	Java				
6	NUR	epP	18 52 48		
		iPKP	54 26.0	0.8	21.6
		e	56		
		ePP	55 14		
		e	23		
		epPP	56 58		
		e	57 14		
		esPP	46		
		eSKS	19 00 22		
		eSKKKS	01 28		
		eSP	03 50		
		iPKKP	05 15.3		
		i	25.3		
		eSS	10 20		
	SOD	eP	18 50 12		
		epP	52 11		
		ePKP	54 23		
		e	33		
		ePP	47		
		epPP	56 30		
		eSKS	19 00 05		
		eSKKKS	55		
		eSP	03 22		
		ePS	04 14		
		ePKKP	05 28		
		i	30.3		
		i	45.7		
	KJN	eP	18 50 21		
		ipP	52 17.9		
		i	53 38.4		
		ePKP	54 20		
		iPP	55 01.7		
		i	13.3		
		epPP	56 40		
		i	57 07.7		
		eSKS	19 00 09		
		eSKKKS	01 05		
		eS	43		
		eSP	03 34		
		ePKKP	05 22		
		i	25.6		
		i	39.2		

cont.

July				T	A	July				T	A
11	NUR	eP	16 26 25			13	KJN	ePKP	06 43 02		
		e	27					H:	06 23 49.9		
		e	40						20.2 S, 174.1 W, 63 km		
	SOD	eP	16 25 54						Tonga Islands		
		i	26 09.1			13	NUR	eP	10 16 50	0.7	11.6
	KJN	eP	16 26 05	0.9	7.9		SOD	iP	10 16 51.0 D		
		i	19.2				KJN	iP	10 16 46.6 D	0.7	16.2
		i	34.2					H:	10 03 46.7		
		H:	16 15 20.9						6.7 S, 106.6 E, 55 km		
			36.4 N, 139.7 E, 79 km						Java		
			Honshu, Japan								
11	KJN	ePKP	20 31 26			13	NUR	eP	14 20 08	1.0	24.0
		H:	20 12 40.1				SOD	eP	14 19 22		
			18.9 S, 175.5 W, 229 km					ePcP	20 07		
			Tonga Islands				KJN	eP	14 19 43		
12	NUR	eP	09 56 52					H:	14 09 21.1		
	SOD	eP	09 57 50						51.6 N, 178.3 W, 57 km		
	KJN	eP	09 57 23						Andreanof Islands		
		H:	09 51 45.8			13	NUR	eS	14 28 18		
			37.7 N, 29.4 E, 22 km					H:	14 18 58.2		
			Turkey						37.5 N, 27.8 E, 16 km		
12	NUR	iP	11 32 29.0	0.4	8.2				Turkey		
	SOD	iP	11 31 55.2			13	SOD	eP	14 54 09		
	KJN	iP	11 32 07.0 U	0.7	14.9		KJN	eP	14 54 09		
		H:	11 21 40.9				KEV	eSP	15 06 20		
			40.6 N, 141.7 E, 60 km					H:	14 41 07.9		
			Honshu, Japan						1.0 S, 121.5 E, 96 km		
12	NUR	iP	13 59 35.8	0.5	14.2				Celebes		
	SOD	iP	13 59 52.3			13	NUR	iP	23 16 50.8 U	0.8	29.5
	KJN	iP	13 59 36.4	0.9	15.7		SOD	iP	23 17 07.1 D		
	KEV	iP	14 00 01.7	0.9	22.9		KJN	iP	23 16 50.9 U	0.7	16.2
		H:	13 52 39.5				KEV	iP	23 17 16.5 D	0.8	13.2
			36.3 N, 70.6 E, 224 km					H:	23 09 49.3		
			Hindu Kush						36.5 N, 70.8 E, 158 km		
12	SOD	ePKP	14 15 47						Hindu Kush		
	KJN	iPKP	14 15 47.8 U	1.0	13.9	14	SOD	eP	02 39 05		
		H:	13 57 14.7				KJN	eP	02 39 37		
			28.4 S, 68.2 W, 118 km (R)					H:	02 29 23.2		
			La Rioja, Argentina						57.0 N, 147.5 W, 8 km		
12	NUR	iP	18 52 32.0 D	0.7	18.9				Gulf of Alaska		
	SOD	iP	18 52 35.1 D			14	NUR	iP	12 27 27.0 U	0.9	46.8
	KJN	iP	18 52 29.3 D	1.0	33.6			i	38.1		
	KEV	eP	18 52 38	0.9	17.2		SOD	iP	12 26 41.0		
		H:	18 39 46				KJN	eP	12 26 57	0.9	6.7
			4.6 S, 103.2 E, 70 km (R)					i	27 02.5		
			Southern Sumatra						cont.		

July							July							
			T	A							T	A		
	KEV	eP	12 26 25							KJN	iP	18 07 02.4 D		
	H:		12 16 34.9								i	14.0		
	52.6 N, 168.6 W, 18 km (R)									KEV	eP	18 06 24		
	Fox Islands													
14	NUR	iP	13 56 48.2	0.9	29.4			14	NUR	iP	18 12 21.2 U	0.8	28.8	
	SOD	eP	13 56 02						SOD	eP	18 11 35			
	KJN	iP	13 56 23.9 U	0.7	12.1				KJN	iP	18 11 56.5 U	0.7	11.3	
	H:		13 45 56.2						KEV	eP	18 11 19			
	52.5 N, 168.6 W, 21 km								H:		18 01 30.7			
	Fox Islands								52.6 N, 168.6 W, 27 km					
									Fox Islands					
14	NUR	iPg	13 58 34.5					14	SOD	eP	18 26 10			
		eSg	57						KJN	iP	18 26 08.0 D	0.9	15.4	
		iRg	59 07.5							i	10.4			
	H:		13 58 01.0						H:		18 13 20.9			
	60°56'51.2" N								0.1 S, 122.8 E, 207 km					
	21°09'09.6" E								Northern Celebes					
	Off coast of Finland													
	Underwater explosion							15	NUR	iP	02 35 25.4			
	of 100 kg TNT													
14	NUR	ePg	15 18 34					15	NUR	ePn	10 21 22			
		iSg	57							ePg	23			
		eRg	19 06							eSb	47			
	H:		15 18 01.3							eSg	49			
	60°56'51.0" N									eRg	57			
	21°09'09.6" E								KJN	iPg	10 22 05.8			
	Off coast of Finland									iSg	23 02.8			
	Underwater explosion								H:		10 20 46.1			
	of 200 kg TNT								61°02'26.4" N					
									20°46'36.7" E					
									Off coast of Finland					
									Underwater explosion					
									of 600 kg TNT					
14	NUR	ePg	17 08 34					15	NUR	iPn	13 47 37.5			
		eSg	57							iPg	38.5			
		iRg	09 06.5							iSn	48 02.5			
	H:		17 08 01.3							iSg	04.5			
	60°56'50.6" N									eRg	14			
	21°09'06.1" E								KJN	iPg	13 48 20.6			
	Off coast of Finland									iSg	49 17.6			
	Underwater explosion								H:		13 47 02.0			
	of 300 kg TNT								61°02'28.5" N					
									20°46'47.8" E					
									Off coast of Finland					
									Underwater explosion					
									of 200 kg TNT					
14	NUR	iP	18 06 44.4	0.8	61.2									
	SOD	iP	18 05 58.8 D											
	KJN	iP	18 06 20.1 U	0.8	62.0									
	KEV	iP	18 05 42.6 D	0.8	35.3									
	H:		17 55 51.1											
	52.6 N, 168.6 W, 8 km													
	Fox Islands													
14	NUR	iP	18 07 27.0					15	NUR	eP	14 26 38			
	SOD	iP	18 06 40.8						SOD	iP	14 26 17.8 D			
	cont.								KJN	eP	14 26 31			
									H:		14 16 07.1			
									37.3 N, 74.3 W, 0 km (R)					
									Off east coast of United States					

July				July			
		T	A			T	A
15	NUR ePn	15 27	38				
	eSb	28 04					
	eSg	06					
	KJN iPn	15 28	09.5				
	ePg	21					
	iSg	29 18.5					
	H: 15 27 00.6						
	61°04'09.7" N						
	20°31'46.5" E						
	Off coast of Finland						
	Underwater explosion						
	of 300 kg TNT						
15	NUR ePn	16 31	39				
	iSn	32 01.5					
	iSb	04.5					
	eSg	07					
	KJN iPg	16 32	21.9				
	iSg	33 19.4					
	H: 16 31 01.8						
	61°04'01.7" N						
	20°32'02.1" E						
	Off coast of Finland						
	Underwater explosion						
	of 70 kg TNT						
15	NUR iP	18 01	55.0 D	0.7	18.4		
	SOD iP	18 01	29.3				
	KJN iP	18 01	37.2 D	0.7	17.8		
	H: 17 50 55.2						
	30.0 N, 138.7 E, 407 km						
	South of Honshu, Japan						
15	NUR iP	18 45	11.0	0.8	16.9		
15	NUR iP	18 45	18.6 D	1.4	305.5		
	e	46 48					
	epP	47 37					
	ePP	48 41					
	epPP	50 50					
	esPP	51 44					
	e	52 36					
	iSKS	54 49.0					
	iS	55 11.0					
	iSP	56 16.2					
	esS	58 30					
	eSSS	19 05 38					
	SOD iP	18 45	08.2				
	i	55.7					
	ePP	48 22					
	cont.						
	KJN iP	18 45	08.6 D	1.0	587.1		
	e	52					
	epP	47 21					
	iPP	48 38.3					
	e	49 30					
	iSKS	54 35.0					
	iS	52.1					
	KEV eP	18 45	06				
	eS	54 44					
	H: 18 33 29.9						
	7.7 N, 123.8 E, 588 km						
	Mindanao, P.I.						
15	NUR ePKP	20 51	31				
	iSKP	54 11.6					
	H: 20 32 59.7						
	23.5 S, 179.8 W, 527 km						
	South of Fiji Islands						
15	NUR iP	21 24	04.2 D	0.8	42.1		
	KJN ePKP	21 23	53				
	H: 21 04 59						
	29.8 S, 178.7 E, 308 km						
	Kermadec Islands						
16	NUR iP	01 45	28.4 D	0.8	7.6		
16	NUR iP	22 52	14.9				
	H: 22 33 16						
	11.8 S, 166.1 E, 30 km						
	Santa Cruz Islands						
17	NUR ePKP	07 39	23	0.9	15.1		
	ePP	40 36					
	eSKS	46 20					
	eSKKS	47 24					
	ePS	50 14					
	ePPS	51 56					
	eSS	57 12					
	eSSS	08 01 06					
	KJN ePKP	07 39	14				
	ePP	40 11					
	KEV ePP	07 40	02				
	ePPP	42 10					
	ePS	49 29					
	ePPS	50 45					
	H: 07 20 30.5						
	9.7 S, 159.8 E, 23 km						
	Solomon Islands						

July				July			
	T	A		T	A		
17	NUR	ePg	09 24 36				
		eSg	25 02				
	H:		09 24 01.3				
			61°00'49.2" N				
			21°00'14.2" E				
			Off coast of Finland				
			Underwater explosion				
			of 70 kg TNT				
17	NUR	ePn	09 59 35				
		iPb	35.8				
		iPg	36.5				
		eSg	59				
		eSb	10 00 00				
		eSg	02				
	H:		09 59 01.6				
			61°00'51.5" N				
			21°00'15.4" E				
			Off coast of Finland				
			Underwater explosion				
			of 200 kg TNT				
17	NUR	iPn	12 46 41.5				
		iPb	42.5				
		ePg	43.5				
		iSn	47 07.5				
		iSb	11.5				
		eSg	12.5				
	KJN	ePg	12 47 23				
		iSg	48 22.5				
	H:		12 46 01.5				
			61°06'42.8" N				
			20°07'23.9" E				
			Off coast of Finland				
			Underwater explosion				
			of 100 kg TNT				
17	NUR	ePKP	13 06 30				
		ePP	07 19				
		eS	15 12				
	KEV	ePS	13 16 08				
		ePPS	17 10				
	H:		12 47 49.4				
			7.2 S, 153.6 E, 28 km				
			New Britain region				
17	NUR	ePKP	13 18 40				
		i	45.3	1.0	38.0		
		i	51.3				
		e	20 12				
		ePP	22 22				
		ePKS	23 20				
		e	24 28				
			cont.				
	SOD	iPKP	13 18 35.7				
	KJN	ePKP	13 18 36				
		i	43.2	1.0	41.0		
	KEV	iPKP	13 18 29.6	D			
		eSKP	21 58				
		eSKSP	30 56				
	H:		12 59 10.7				
			27.2 S, 177.6 W, 27 km (R)				
			Kermadec Islands				
17	NUR	ePn	14 29 41.5				
		ePb	42.5				
		iPg	43.5				
		eSn	30 07.5				
		iSb	11				
		iSg	12				
	KJN	iPg	14 30 22.9				
		iSn	31 05.4				
		iSg	21.9				
	H:		14 29 01.1				
			61°06'41.1" N				
			20°07'23.9" E				
			Off coast of Finland				
			Underwater explosion				
			of 300 kg TNT				
17	NUR	eP	16 03 49				
	KJN	eP	16 04 13				
	H:		15 52 28.2				
			18.0 N, 61.6 W, 38 km				
			Leeward Islands				
17	KJN	eP	18 19 57				
		epP	20 30				
	H:		18 09 14.6				
			31.3 N, 130.2 E, 131 km				
			Kyushu, Japan				
17	NUR	iP	18 32 13.0	U	0.8	25.9	
	SOD	iP	18 31 26.2				
	KJN	eP	18 31 48		0.9	6.7	
	H:		18 21 33.5				
			54.8 N, 161.5 W, 30 km				
			Alaska Peninsula				
18	KJN	eP	08 08 34				
	H:		07 57 48.8				
			35.6 N, 139.5 E, 96 km				
			Honshu, Japan				
18	NUR	eP	11 06 34				
	KJN	eP	11 06 23				

July		T	A	July		T	A
18	NUR ePKP 13 51 15 H: 13 31 44.9 27.2 S, 176.2 W, 33 km (R) Kermadec Islands			19	NUR iP 07 45 41.3 U ePcP 46 14 KJN eP 07 45 17 H: 07 35 01.1 54.1 N, 163.4 W, 42 km Unimak Island	1.0	12.0
18	NUR eP 18 00 03 H: 17 49 10.6 51.0 N, 177.9 E, 15 km Rat Islands	0.9	8.4	19	NUR eP 08 58 55 KJN eP 08 59 11 H: 08 52 10.4 30.7 N, 50.1 E, 32 km Iran	0.8	3.6
18	NUR iP 22 25 46.5 D SOD iP 22 25 07.5 KJN iP 22 25 22.5 D iPcP 26 02.6 KEV iP 22 24 55.3 H: 22 14 59.5 45.4 N, 151.3 E, 16 km Kurile Islands	0.7	36.1	19	NUR iP 09 19 13.0 SOD iP 09 19 19.3 KJN eP 09 19 11 H: 09 07 16 3.0 N, 97.1 E, 59 km Northern Sumatra	0.9	6.7
		0.9	23.1			0.9	5.8
		0.9	23.5	19	NUR iP 09 19 13.0 SOD iP 09 19 19.3 KJN eP 09 19 11 H: 09 07 16 3.0 N, 97.1 E, 59 km Northern Sumatra	0.9	6.7
18	NUR iP 22 26 40.3			19	NUR iP 09 21 40.5 D i 47.2 SOD iP 09 21 46.8 D KJN eP 09 21 39 e 45 H: 09 09 40.3 3.0 N, 97.1 E, 33 km (R) Northern Sumatra	0.8	14.4
19	NUR iP 00 14 36.6 SOD eP 00 13 58 KJN eP 00 14 12 ePcP 53 H: 00 03 52.7 45.4 N, 151.3 E, 33 km (R) Kurile Islands			19	NUR eP 10 26 38 H: 10 16 14.6 48.8 N, 154.2 E, 55 km Kurile Islands	0.8	21.2
19	NUR eP 04 25 52 i 26 05.2 e 08 SOD iP 04 25 50.9 e 58 KJN iP 04 25 56.8 D i 26 06.3 KEV eP 04 25 55 H: 04 13 20.4 9.2 N, 70.4 W, 33 km (R) Venezuela	1.4	32.8	19	NUR ePKP 17 04 57 H: 16 46 05.3 12.0 S, 165.9 E, 55 km Santa Cruz Islands		
		1.1	26.4	19	SOD eP 20 21 43 KJN eP 20 21 45 H: 20 09 05.6 7.1 N, 126.8 E, 90 km Mindanao, P.I.		
19	NUR iP 06 58 27.9 D i 30.7 U ePP 07 01 17 eS 07 35 SOD iP 06 58 02.8 D i 05.5 U KJN iP 06 58 10.6 D H: 06 47 24.3 28.0 N, 139.7 E, 494 km Bonin Islands	1.0	37.5	20	NUR ePKP 00 12 23 e 14 39 iSKP 15 22.0 SOD eSKP 00 15 04 KJN eSKP 00 15 12 H: 23 53 55.1 25.5 S, 179.8 E, 482 km South of Fiji Islands	1.0	17.1

July		T	A	July		T	A
	eS	51	28				
	eSS	55	32				
	H: 13 33 05.2						
	41.3 N, 146.6 E, 33 km (R)						
	Hokkaido, Japan						
25	NUR	iP	21 57	29.3 U	0.6	45.0	
		i		34.5			
		ePP	22 00	10			
		ePPP	01	48			
		e	05	16			
		eS	06	14			
		ePS		28			
		eScS	07	23			
		eSS	10	50			
	SOD	iP	21 56	44.8 U			
		ePcP		57 30			
	KJN	iP	21 57	04.2 U	1.0	174.4	
		iPcP		49.0			
		e	22 00	25			
		eS	05	30			
	KEV	iP	21 56	28.3	1.0	36.0	
		ePcP		57 23			
		ePPP	22 00	10			
		eS	04	20			
		eScS	06	14			
		eSS	08	28			
	H: 21 46 45.3						
	51.4 N, 176.0 E, 33 km (R)						
	Rat Islands						
26	NUR	eP	00 45	12			
	SOD	iP	00 45	23.6			
	KJN	eP	00 45	07	0.6	3.2	
		e		13			
	KEV	eP	00 45	31			
	H: 00 38 32						
	41.9 N, 70.9 E, 33 km (R)						
	Kirgiz SSR						
26	NUR	ePKP	15 43	06			
		ePP		45 30			
		ePKS		46 28			
		eSKSP		55 30			
		eSS	16 03	12			
	KJN	ePKP	15 42	55			
	KEV	ePP	15 44	28			
	H: 15 23 46.1						
	15.8 S, 172.9 W, 25 km						
	Samoa Islands region						
26	NUR	iP	16 28	51.0	1.0	77.9	
		e		29 20			
	SOD	iP	16 28	24.8 D			
	KJN	iP	16 28	32.8 D	1.0	65.0	
		i		39.2			
	KEV	iP	16 28	17.0	1.0	66.0	
	H: 16 17 49.9						
	29.8 N, 138.7 E, 402 km						
	South of Honshu, Japan						
27	SOD	eP	08 07	16			
	KJN	eP	08 07	16			
	H: 07 54 35.2						
	6.0 N, 126.0 E, 83 km						
	Mindanao, P.I.						
27	NUR	iPKP	08 46	15.0 D	0.7	35.6	
		i		28.2			
	SOD	ePKP	08 45	57			
		e		46 07			
	KJN	iPKP	08 46	04.1 U	0.7	79.2	
		i		18.0			
		e		57			
		eSKP		49 43			
	H: 08 26 26.1						
	34.2 S, 179.1 W, 14 km						
	South of Kermadec Islands						
27	NUR	iP	11 31	15.2 D	1.1	47.6	
	SOD	iP	11 30	30.1 D			
	KJN	iP	11 30	49.9 U	1.0	30.8	
		e		31 00			
	KEV	eP	11 30	14			
	H: 11 20 27.7						
	51.2 N, 177.5 E, 34 km						
	Rat Islands						
27	SOD	iPKP	12 57	17.2 D			
		i		23.1			
	KJN	ePKP	12 57	13	1.0	11.4	
	H: 12 38 12.5						
	55.7 S, 27.4 W, 33 km (R)						
	South Sandwich Islands						
27	NUR	eP	16 10	14			
	SOD	iP	16 09	27.3			
	KJN	eP	16 09	52			
	H: 16 00 13.0						
	59.4 N, 137.0 W, 33 km (R)						
	Southeastern Alaska						

July				July			
		T	A			T	A
27	KJN eP	16	28 46				
	H: 16 17 46						
	23.8 N, 121.7 E, 60 km (R)						
	Taiwan						
27	NUR eP	17	56 55				
	H: 17 46 17						
	47.2 N, 153.6 E, 33 km (R)						
	Kurile Islands						
27	NUR iP	21	26 31.0 D	0.6	32.5		
	epP	27	19				
	ePP	28	54				
	SOD iP	21	25 58.8 D				
	KJN iP	21	26 09.6 D	0.6	90.9		
	ipP		57.9				
	ePP	28	25				
	KEV iP	21	25 48.9	0.7	14.2		
	H: 21 16 02.9						
	40.2 N, 139.2 E, 199 km						
	Honshu, Japan						
27	NUR eP	21	47 31				
	SOD iP	21	46 19.1				
	KJN eP	21	46 58				
	i	47	05.2				
	H: 21 42 11.3						
	84.9 N, 6.3 E, 33 km (R)						
	North of Svalbard						
28	NUR eP	00	00 29				
	SOD iP	00	00 18.2				
	KJN iP	00	00 18.1 D	0.8	13.0		
28	NUR eP	02	36 37				
	SOD iP	02	35 27.1 D				
	KJN iP	02	36 06.9 D	1.1	22.7		
	i		14.9				
	KEV eP	02	34 55				
28	NUR eP	06	09 25				
	KJN eP	06	09 06				
	H: 05 58 32.7						
	36.3 N, 138.7 E, 150 km						
	Honshu, Japan						
28	NUR iP	22	41 32.8	0.7	32.3		
	i		42.2				
	iPP	44	49.7				
	eS	51	42				
	ePS	52	44				
	eSS	57	24				
	ePKKP	59	34				
	cont.						
	SOD iP	22	41 35.7 D				
	i		45.8				
	ipP	42	09.5				
	ePP	44	52				
	eS	51	43				
	ePKKP	59	31				
	KEV iP	22	41 38.3 U	0.8	37.4		
	i		48.3				
	i		56.0				
	epP	42	11				
	ePP	45	03				
	eS	52	00				
	ePS	53	00				
	eSS	57	27				
	H: 22 29 04.9						
	2.2 S, 101.8 E, 110 km						
	Southern Sumatra						
29	NUR eP	03	11 22				
	e		12 14				
	SOD eP	03	11 16				
	KEV eP	03	11 19				
	H: 03 05 02						
	50.4 N, 77.9 E, 0 km (R)						
	Eastern Kazakh SSR						
29	NUR iP	08	40 20.3 D	1.6	380.1		
	i		26.5	1.6	1791.9		
	ePcP		52				
	ePP	42	48				
	ePPP	44	52				
	iS	49	23.0				
	iScS	50	24.8				
	eSS	53	56				
	eP'P'	09	08 38				
	eLR	09	01.3				
	SOD iP	08	39 34.9 D				
	i		38.3				
	iPP	42	03.0				
	eS	47	59				
	eScS	49	32				
	eP'P'	09	08 53				
	e		59				
	KEV iP	08	39 18.2 D	1.0	55.4		
	i		24.0				
	e		48				
	e	40	32				
	iPP	41	42.1				
	eS	47	20				
	eScS	49	10				
	eP'P'	09	08 58				
	e		09 07				
	eLR	08	56.5				
	H: 08 29 22.1						
	51.2 N, 171.3 W, 23 km (R)						
	Fox Islands						

July				T	A	July				T	A
29	NUR	eP	09 05 31	0.8	14.4	KJN	iP	07 32 44.9 U	0.9	98.9	
	SOD	eP	09 05 32				i	50.3			
		e	47				epP	33 25			
	KEV	eP	09 05 33			KEV	iP	07 32 33.0 U	1.0	90.0	
		e	46								
	H: 08 54 01.1						H: 07 20 10.3				
	16.6 N, 60.1 W, 33 km (R)						6.7 N, 73.0 W, 174 km				
	Leeward Islands						Northern Colombia				
29	NUR	iP	12 31 21.0	2.0	166.8	30	NUR	eP	08 21 07		
		e	32 29				SOD	iP	08 20 21.1		
	SOD	eP	12 30 46				KJN	eP	08 20 42	0.5	
	KEV	eP	12 30 30					ePcP	21 20	9.3	
	H: 12 20 22.7						KEV	eP	08 20 05		
	51.0 N, 171.5 W, 33 km (R)						H: 08 10 19.4				
	Aleutian Islands						52.3 N, 171.0 W, 55 km				
							Fox Islands				
29	NUR	iP	15 19 34.8	1.0	42.0	30	NUR	eP	08 42 15		
		e	48				SOD	eP	08 41 30		
	SOD	eP	15 18 50				KJN	eP	08 41 51		
		i	54.2				H: 08 31 18				
	KJN	iP	15 19 10.8	0.7	16.9		51.2 N, 171.4 W, 33 km (R)				
		e	24				Fox Islands				
	KEV	eP	15 18 34								
		eS	26 36			30	NUR	eP	19 14 28	0.8	
	H: 15 08 37.0							i	34.0	11.8	
	51.1 N, 171.3 W, 33 km (R)						SOD	eP	19 15 04		
	Fox Islands						KJN	eP	19 14 41		
							KEV	eP	19 15 17	0.8	
							H: 19 07 05.3				
							28.1 N, 57.0 E, 52 km				
							Southern Iran				
29	NUR	iP	15 21 09.1	1.0	32.0	30	SOD	iP	19 28 09.9		
	SOD	eP	15 20 23				KJN	iP	19 28 10.0 D	0.8	
	KJN	eP	15 20 44	0.7	8.4					15.6	
		e	57								
	KEV	eP	15 20 10	1.1	14.3	30	NUR	eP	21 18 36		
	H: 15 10 14.1						KJN	eP	21 18 12		
	51.4 N, 170.8 W, 33 km (R)						H: 21 07 43.3				
	Fox Islands						51.8 N, 171.8 W, 32 km				
							Fox Islands				
29	KJN	eP	17 10 04								
	H: 16 59 31										
	51.1 N, 171.5 W, 44 km										
	Fox Islands										
30	SOD	eP	06 04 06			31	NUR	iP	07 47 46.2	0.7	
	KJN	eP	06 04 09	1.0	11.8			eS	56 54	14.5	
								eSS	08 01 32		
							SOD	eP	07 47 15		
								e	24		
30	NUR	iP	07 32 41.7	1.2	70.1		KJN	eP	07 47 26	0.8	
		i	47.4					i	37.8	29.5	
	SOD	iP	07 32 39.1 U				KEV	eS	07 55 47		
		e	49					eSS	08 00 08		
		epP	33 19				H: 07 36 31.5				
	cont.						35.9 N, 142.2 E, 52 km				
							Honshu, Japan				

July						July					
				T	A					T	A
31	NUR	eP	11 26 34	0.7	11.9	31	NUR	eP	19 10 14		
		i	45.7				SOD	eP	19 10 11		
	SOD	iP	11 25 47.0				KJN	eP	19 10 04		
		e	55				H: 19 01 09.4				
	KJN	eP	11 26 10	0.9	10.8		32.8 N, 93.0 E, 33 km (R)				
	KEV	eP	11 25 31				Tibet				
	H: 11 16 05.6										
	56.4 N, 153.3 W, 33 km (R)										
	Kodiak Island										
31	NUR	ePKP	14 44 58			31	NUR	eP	20 08 04		
	SOD	ePKP	14 44 52				SOD	eP	20 07 37		
	KJN	ePKP	14 44 47	0.6	14.0		KJN	eP	20 07 45	0.9	10.8
		i	58.5				H: 19 56 36.3				
	H: 14 26 26.6						32.0 N, 140.8 E, 99 km				
	26.0 S, 179.7 E, 464 km						South of Honshu, Japan				
	South of Fiji Islands										
31	NUR	eP	16 45 59			31	NUR	iP	21 53 54.0		
	SOD	eP	16 45 56				i		57.9 U	0.9	32.7
	KJN	eP	16 45 54				eS	22 01 18			
	H: 16 36 53.8						eSS	05 10			
	32.7 N, 93.2 E, 33 km (R)						eLQ	22 07			
	Tibet						SOD	iP	21 53 51.5		
							i		55.0 U		
							KJN	eP	21 53 45	1.1	19.9
							i		48.7 U		
							KEV	iP	21 53 56.2 U		
							H: 21 44 47.8				
							32.7 N, 93.1 E, 21 km				
							Tibet				
31	NUR	eP	17 16 57	1.0	18.5						
		eS	24 20								
		eSS	27 44								
		eLQ	17 31								
	SOD	iP	17 16 53.6								
	KJN	eP	17 16 48								
	KEV	eP	17 16 55								
	H: 17 07 52.6										
	32.7 N, 93.1 E, 33 km (R)										
	Tibet										
31	SOD	eP	18 59 43								
	KJN	eP	18 59 39	0.6	5.8						
	H: 18 46 38.4										
	7.6 S, 107.5 E, 122 km										
	Java										
							February 4, 1966				
							Urmas Luosto				
							Aili Huovila				

NUR has not been in operation between August 8 and 19.

August				August			
		T	A			T	A
1	SOD ePKP 02 59 10 H: 02 40 04.4 39.1 S, 74.8 W, 33 km (R) Central Chile			1	NUR iP 16 50 34.6 D 0.7 121.3 i 51 15.0		
1	SOD eP 09 32 57 KJN eP 09 32 58 H: 09 19 51.7 0.3 N, 125.8 E, 91 km Molucca Passage			SOD iP 16 49 52.1 D ePP 51 52			
1	SOD eP 14 23 02 KJN eP 14 22 59 KEV eP 14 23 08 H: 14 14 01.7 32.6 N, 93.6 E, 33 km (R) Tibet			KJN iP 16 50 09.0 D 0.9 111.8 iPcP 59.7 ePP 52 12			
1	NUR iP 15 12 36.2 D 0.7 55.5 i 38.0 0.7 145.8 e 13 39 iPP 14 58.0 eS 20 30 eScS 21 44 esS 22 58 eSS 24 39 eSSS 27 36			KEV iP 16 49 37.4 D 0.8 64.8 ePP 51 28 H: 16 41 13.7 52.7 N, 153.4 E, 462 km Kurile Islands			
	SOD iP 15 11 59.6 D i 12 07.2			1	KJN ePKP 19 47 18 H: 19 27 57.6 24.6 S, 176.8 W, 33 km (R) South of Fiji Islands		
	KJN iP 15 12 13.4 D 0.8 141.8 iPcP 59.4 iPP 14 27.1 e 15 40 eS 19 46			1	NUR iP 20 18 24.2 U 1.0 44.0 i 19 09.0 eS 25 46 eSS 29 48 eLQ 20 32		
	KEV iP 15 11 47.4 D 0.8 188.6 i 49.0 e 12 02 ePcP 45 epP 13 10 iPP 52.7 ePPP 14 29 eS 18 58 eScS 20 54 esS 21 23 eSS 22 36 eSSS 25 08			SOD iP 20 18 20.8 i 22.9 KJN eP 20 18 17 1.0 29.6 KEV eP 20 18 23 0.9 13.4 eS 25 45 eLQ 20 33 H: 20 09 17.9 32.6 N, 93.3 E, 32 km Tibet			
	H: 15 02 56.1 46.9 N, 143.8 E, 400 km (R) Sakhalin Island			1	NUR ePKP 20 53 18 KJN iPcP 20 53 11.3 H: 20 34 19.6 13.3 S, 165.8 E, 28 km New Hebrides Islands		
				2	NUR iPcP 00 04 04.7 2.1 133.2 i 07.7 1.3 204.6 i 17.4 ePP 07 30		
				SOD ePKP 00 03 50 KJN iPcP 00 03 56.3 D 1.6 102.0 i 59.8 ePP 07 51			
				KEV ePKP 00 03 50 ePP 06 55 ePKS 07 26			

cont.

August

				T	A
	ePPS	20 31			
	eSS	25 28			
	eSSS	31 05			
	H: 23 44 28.3				
	32.5 S, 178.9 W, 44 km (R)				
	South of Kermadec Islands				
2	NUR eP	05 05 19		0.8	14.4
	SOD eP	05 05 49			
	KJN eP	05 05 37			
	KEV eP	05 06 14		1.0	12.0
	H: 04 56 19.3				
	14.4 N, 53.9 E, 37 km				
	Arabian Sea				
2	NUR ePKP ¹	13 39 58		1.0	18.0
	iPKP ²	40 25.2 D		1.6	347.5
	i	51.7			
	ePP	43 56			
	eSKKS	50 02			
	eSKSP	54 32			
	ePPS	57 10			
	e	59 04			
	eSS	03 43			
	eSSS	09 52			
SOD	ePKP ¹	13 39 56			
	i	40 13.2			
	iPKP ²	27.6 D			
	e	41 16			
	ePP	43 50			
	eSKS	47 10			
KJN	ePKP	13 39 47		1.2	13.5
	i	57.0 D			
	i	40 09.8			
	ePP	43 57			
	eSKKKS	50 33			
KEV	ePKP	13 39 55		1.0	38.0
	i	40 02.0 D			
	e	38			
	i	41 43.0			
	e	43 45			
	ePP	44 02			
	eSKS	47 14			
	eSKKS	50 00			
	eSKSP	54 15			
	e	55 20			
	ePPS	56 48			
	eSS	14 03 30			
	eSSS	08 30			
	H: 13 19 54.7				
	56.2 S, 158.2 E, 33 km (R)				
	Macquarie Islands region				

August

				T	A
2	NUR iP	14 47 22.0		1.5	70.1
	SOD eP	14 47 16			
	KJN eP	14 47 23		1.5	52.6
	KEV eP	14 47 13		1.5	37.4
	H: 14 34 21.6				
	7.4 N, 78.7 W, 22 km				
	Panama				
2	NUR iP	14 49 10.6			
	SOD eP	14 49 03			
	KJN eP	14 49 11			
	KEV eP	14 49 02			
2	NUR iP	16 56 12.7 D		1.0	38.0
	i	20.7			
	e	35			
	SOD eP	16 56 07			
	KJN eP	16 56 14		1.1	19.9
	KEV eP	16 56 04		1.0	24.0
	e	17 06 35			
	H: 16 43 09.4				
	7.4 N, 78.7 W, 2 km				
	Panama				
2	NUR eP	17 58 55		0.8	13.0
	SOD eP	17 58 49			
	KEV eP	17 58 51		1.0	8.0
	H: 17 49 47				
	32.8 N, 93.3 E, 33 km (R)				
	Tibet				
2	SOD eP	18 17 51			
	H: 18 04 56				
	7.5 N, 78.5 W, 33 km (R)				
	Panama				
2	NUR eP	19 20 55		1.0	36.0
	e	21 10			
	eSKS	31 24			
	SOD eP	19 20 50			
	e	21 12			
	KJN eP	19 20 55		1.0	12.8
	KEV eP	19 20 47		1.2	22.8
	i	21 10.1			
	eS	31 15			
	H: 19 07 57.1				
	7.4 N, 78.8 W, 33 km				
	Panama				
2	NUR eP	19 49 16		0.5	11.9
	SOD eP	19 48 41			

cont.

August				August			
		T	A			T	A
	KJN eP	19 48 54			3	SOD eP	08 47 19
	KEV eP	19 48 31				KJN iP	08 47 27.9
	H:	19 38 33				H:	08 36 37
		42.5 N, 142.9 E, 33 km (R)					34.9 N, 138.0 E, 109 km
		Hokkaido, Japan					Honshu, Japan
2	NUR eP	20 56 28	0.8	8.6	3	NUR eP	09 24 16
	H:	20 43 30.6				H:	09 13 49.1
		7.5 N, 78.4 W, 33 km (R)					56.7 N, 159.8 W, 58 km
		Panama					Alaska Peninsula
3	NUR e	02 20 06			3	KJN ePKP	09 54 49
	ePP	27				eSKP	57 27
	eSKS	26 34				H:	09 36 36.6
	ePS	29 24					21.4 S, 179.0 W, 571 km
	SOD ePP	02 20 09					Fiji Islands region
	KJN ePP	02 20 14	1.1	12.8	3	NUR eP	14 01 10
	KEV e	02 19 34				SOD iP	14 00 41.0
	eSKS	26 30				KJN iP	14 00 50.8
	ePS	29 16				H:	13 50 00.3
	ePPS	30 02					34.7 N, 139.0 E, 91 km
	eSS	34 12					Honshu, Japan
	H:	02 01 52.2			3	SOD eP	15 52 19
		7.7 S, 81.3 W, 49 km (R)				KJN eP	15 52 27
		Northern Peru				H:	15 41 34
3	NUR iP	07 09 46.7 U	0.8	29.4			34.7 N, 139.7 E, 33 km (R)
	SOD eP	07 10 04					Honshu, Japan
	KJN iP	07 09 47.1	1.0	13.9	3	NUR ePKP	18 19 23
	ePP	11 05				SOD iP	18 19 13.0
	KEV eP	07 10 13				KJN ePKP	18 19 16
	ePP	11 50				KEV ePKP	18 19 10
	H:	07 02 42				H:	18 00 32.4
		36.2 N, 69.5 E, 98 km					15.5 S, 167.5 E, 126 km
		Hindu Kush region					New Hebrides Islands
3	NUR eP	07 44 16	0.9	18.9	4	NUR iP	01 18 35.5
	SOD iP	07 44 13.2				iP	19 01.8
	KJN eP	07 44 07	1.1	19.9		eS	29 16
	KEV eP	07 44 15				SOD iP	01 18 19.1
	H:	07 35 22				iP	46.0
		33.3 N, 91.1 E, 44 km				KJN iP	01 18 30.9 U
		Tsinghai, China				iP	57.3
3	NUR eP	08 42 02				e	19 19
	eS	51 20				KEV eP	01 18 14
	SOD iP	08 41 33.0				iP	40.3
	KJN eP	08 41 42	0.7	14.9		e	28 30
	KEV eP	08 41 24				H:	01 05 53.0
	H:	08 30 49.5					16.8 N, 94.5 W, 117 km
		34.7 N, 139.1 E, 69 km					Oaxaca, Mexico
		Honshu, Japan					

August						August				
				T	A					
						T			A	
	KEV	iP	18 24 00.9 D	0.8	100.0	8	SOD	iP	05 29 15.7 U	
		eS	31 06				KJN	iP	05 29 35.4 U	0.7 13.2
	H:		18 15 11.3				H:		05 19 26.2	
			41.4 N, 131.2 E, 560 km						52.6 N, 173.4 E, 35 km	
			Sea of Japan						Near Islands	
7	NUR	eP	06 58 54			8	SOD	iP	09 59 27.8 U	
	SOD	eP	06 58 08					i	40.7	
	KJN	eP	06 58 27				KJN	iP	09 59 29.1	
	H:		06 48 05.9					e	42	
			51.2 N, 174.4 E, 11 km				H:		09 46 29.6	
			Near Islands						4.1 N, 128.6 E, 51 km	
									North of Halmahera	
7	NUR	ePKP	11 38 17	0.6	12.5	8	SOD	iP	12 59 25.4	
	KJN	ePKP	11 38 07					epP	39	
	H:		11 18 36.6				KJN	iP	12 59 46.7	1.0 29.0
			31.5 S, 178.0 W, 33 km (R)					ipP	13 00 00.0	
			Kermadec Islands					ePcP	25	
7	NUR	ePKP	12 25 40					i	01 16.0	
	H:		12 06 04.1				H:		12 49 23.1	
			29.5 S, 175.7 W, 33 km (R)						51.9 N, 175.3 W, 53 km (R)	
			Kermadec Islands						Andreanof Islands	
7	SOD	eP	13 39 00			8	SOD	iP	16 25 17.0	
	KJN	eP	13 39 01				KJN	eP	16 24 59	
	H:		13 26 20.6					e	25 05	
			6.8 N, 126.9 E, 79 km				H:		16 16 53.8	
			Mindanao, P.I.						28.9 N, 69.1 E, 36 km	
									West Pakistan	
7	SOD	eP	14 18 44			9	SOD	eP	03 39 43	
	KJN	eP	14 18 44					e	40 16	
	H:		14 06 03.2				H:		03 29 42.3	
			6.8 N, 126.9 E, 79 km						52.1 N, 178.4 W, 33 km (R)	
			Mindanao, P.I.						Andreanof Islands	
7	KJN	eP	16 21 38			9	SOD	iP	09 20 05.0	
	H:		16 10 07.6				H:		09 08 06.8	
			21.0 N, 121.5 E, 19 km						5.1 S, 11.6 W, 33 km (R)	
			Philippine Islands						Ascension Island region	
7	SOD	eP	21 23 39			9	SOD	iP	09 34 40.4	
	H:		21 14 40.0				KJN	eP	09 34 28	
			61.7 N, 150.8 W, 33 km (R)				H:		09 22 49.9	
			Southern Alaska						4.9 S, 11.9 W, 33 km (R)	
									North of Ascension Island	
8	SOD	iP	04 45 24.0			9	SOD	eP	10 19 58	
	KJN	eP	04 45 24				KJN	iP	10 19 53.8 U	0.7 8.9
		epP	39					ipP	20 14.0	
	H:		04 32 41.2				H:		10 07 02.3	
			6.8 N, 127.0 E, 66 km						5.8 S, 104.8 E, 77 km	
			Philippine Islands						Southern Sumatra	

August				T	A	August				T	A
12	KJN	ePKP	04 57 57			12	SOD	iPKP	18 23 47.2		
		eSKP	05 00 32				KJN	iPKP	18 23 50.8	0.9	23.6
12	KJN	ePKP	05 57 13					i	59.9		
	KEV	ePKP	05 57 12					e	26 51		
		H:	05 37 22.9				KEV	iPKP	18 23 43.7		
			49.5 S, 164.0 E, 33 km (R)					i	57.2		
			Auckland Islands region					eSP	34 54		
12	SOD	iPKP	08 20 36.8 D				H:	18 04 56.1			
		i	51.3					16.0 S, 167.4 E, 45 km			
		ePKKP	30 31					New Hebrides Islands			
	KJN	ePKP	08 20 31			12	SOD	iP	19 34 08.1		
		i	40.5				KJN	iP	19 34 08.3 D	0.6	12.4
		ePP	22 21			12	KJN	ePKP	19 47 45		
		e	23 23					H:	19 28 44.0		
		eSKS	27 41					16.1 S, 167.0 E, 33 km (R)			
		iPKKP	30 23.4					New Hebrides Islands			
		eSKKP	34 21			13	SOD	iP	02 25 14.3		
	KEV	eP	08 16 58				KJN	iP	02 25 14.3 U	0.6	28.9
		iPKP	20 33.5 D	0.9	114.8		KEV	eP	02 25 13		
		ePP	22 02					eS	35 04		
		ePKS	23 40					H:	02 13 14.3		
		ePPP	24 26					13.6 N, 120.1 E, 38 km			
		e	27 18					Mindoro, P.I.			
		ePS	31 50			13	SOD	iPKP	04 59 47.6		
		eSS	38 06				KJN	iPKP	04 59 50.7 U	1.0	25.5
		H:	08 01 43.3				KEV	ePKP	04 59 45		
			15.9 S, 167.5 E, 25 km					H:	04 40 55.3		
			New Hebrides Islands					15.9 S, 167.5 E, 34 km			
12	SOD	eP	09 14 56					New Hebrides Islands			
	KJN	eP	09 15 20			13	KJN	ePKP	11 43 48		
		H:	09 04 39.8				KEV	ePP	11 45 14		
			50.2 N, 129.8 W, 33 km (R)					ePS	55 00		
			Vancouver Island region					H:	11 24 51.8		
12	SOD	eP	13 11 34					16.0 S, 167.0 E, 33 km (R)			
		ePKP	15 35					New Hebrides Islands			
	KJN	eP	13 11 34			13	SOD	eP	12 09 08		
		i	43.3				KJN	eP	12 09 10	0.7	13.2
		ePKP	15 35					H:	11 58 02		
		i	43.9					23.8 N, 122.2 E, 74 km			
		ePKKP	27 15					Taiwan region			
	KEV	eP	13 11 24			13	SOD	ePKP	12 59 10		
		ePKP	15 40					i	25.8		
		eSKS	22 06					i	30.0		
		ePS	24 58					ePKKP	13 09 21		
		eSS	30 30								
		eSSS	35 08								
		H:	12 57 09.7								
			5.3 S, 152.2 E, 41 km								
			New Britain region								

cont.

August				T	A	August				T	A
KJN	ePKP	12 59 08		1.0	11.6	14	SOD	iP	00 35 38.9		
	i	32.5		1.1	127.8			iS	37 49.0		
	ePP	13 01 19					KJN	eP	00 36 22		
	eSKS	06 42						eS	39 09		
	ePKKP	09 13					KEV	eP	00 35 06		
	eSKKP	12 58						iS	36 53.8		
KEV	ePKP	12 59 08				14	KJN	ePKP	00 51 29		
	i	25.5	0.9	31.2			H:	00 32 03.1			
	ePP	13 00 36						30.7 S, 177.9 W, 33 km (R)			
	ePKS	02 22						Kermadec Islands region			
	eSKS	06 18				14	KJN	i(Pb)	03 26 04.3		
	eS	08 40						iSb	46.2		
	ePS	10 34						iSg	50.5		
H:	12 40 08.3						SOD	iSn	03 27 57.7		
	154.9 S, 166.8 E, 33 km (R)							According to the Finnish			
	New Hebrides Islands							seismograph station net:			
13	KJN	iP	13 32 29.6 D	1.0	23.2		H:	03 25 08.6			
13	KJN	eP	13 38 40					60.9 N, 26.3 E, 0 km			
	H:	13 29 06						Uusikylä, Finland			
	46.7 N, 146.0 E, 281 km							(Accidental explosion)			
	Kurile Islands					14	KJN	iPn	03 26 30.3		
13	SOD	iP	15 28 16.2 U					iSb	27 13.9		
	KJN	iP	15 28 40.2	1.0	18.6		SOD	iPn	03 27 13.3		
	H:	15 19 18.0						iSn	28 25.8		
	61.2 N, 151.3 W, 96 km							According to the Finnish			
	Southern Alaska							seismograph station net:			
13	SOD	ePKP	18 15 29				H:	03 25 36.4			
	KJN	iPKP	18 15 24.0	1.0	16.2			60.9 N, 26.3 E, 0 km			
	KEV	ePP	18 16 52					Uusikylä, Finland			
		ePS	26 28					(Accidental explosion)			
		e	30 46			14	SOD	ePn	04 02 02		
	H:	17 56 27.6						iFb	09.5		
	16.6 S, 167.6 E, 39 km							iSn	46.5		
	New Hebrides Islands							iSb	59.5		
13	KJN	ePKP	18 20 04					eSg	03 08		
	H:	18 01 09						eRg	14		
	16.4 S, 167.6 E, 72 km						KJN	iPn	04 02 40.8		
	New Hebrides Islands							iSn	03 55.8		
13	KJN	ePKP	22 16 29					iSb	04 24.8		
	KEV	ePP	22 16 04					KEV	ePn	04 01 49	
		eSKS	22 28					iPb	54.5		
		ePS	25 30					ePg	57		
		eSS	31 06					eSn	02 23		
		eSSS	35 54					iSb	31.5		
	H:	21 57 38.7						eSg	36		
	6.4 S, 148.5 E, 51 km (R)					14	KJN	eP	04 53 20		
	New Britain region							H:	04 47 55		
								38.7 N, 21.8 E, 56 km			
								Greece			

August						August					
			T	A				T	A		
14	KJN	ePKP	11	26	48						
	KEV	ePKP	11	26	44						
		ePP		28	05						
		e		31	16						
		e		32	34						
		eS		35	54						
		eSP		37	48						
		eSS		44	30						
	H: 11 07 47.1										
	15.8 S, 166.8 E, 33 km (R)										
	New Hebrides Islands										
14	KJN	iP	11	49	47.4 U	0.7	11.6				
	H: 11 39 29										
	40.9 N, 141.2 E, 93 km										
	Honshu, Japan										
14	KJN	ePKP	13	36	48						
	H: 13 18 06.0										
	11.5 S, 166.3 E, 49 km (R)										
	Santa Cruz Islands										
14	SOD	iP	17	21	58.7 D						
	KJN	iP	17	21	43.7 D	0.6	16.5				
	KEV	eP	17	22	06	0.7	10.1				
	H: 17 14 49.4										
	37.3 N, 72.0 E, 220 km (R)										
	Afghanistan-USSR border										
15	SOD	iP	04	56	23.3 U						
	KJN	iP	04	56	23.3 U	0.7	14.0				
	KEV	eP	04	56	21						
	H: 04 44 33										
	14.3 N, 120.1 E, 97 km										
	Luzon, P.I.										
15	SOD	iP	06	07	01.6						
	KJN	iP	06	06	45.6 U	0.7	20.7				
		epP		07	27						
		ePP		08	10						
	KEV	iP	06	07	10.0 D	0.6	12.2				
	H: 05 59 47.7										
	36.4 N, 71.1 E, 213 km										
	Afghanistan-USSR border										
15	KJN	iP	19	49	37.5	1.0	17.0				
	H: 19 36 55.4										
	2.7 N, 60.1 W, 33 km (R)										
	Brazil										
16	SOD	ePn	04	02	02						
		ePb			10						
		ePg			14						
		iSn			46.5						
		i			55.0						
		iSb			59.5						
		iSg	03		08.5						
		eRg			20						
	KJN	ePn	04	02	41						
		eSn	03		55						
		eSb	04		24.5						
		iSg			33.5						
	KEV	iPn	04	01	49.6						
		iPb			54.5						
		ePg			57.0						
		iSn	02		24.3						
		iSb			31.8						
		eSg			36.0						
		eRg			43.0						
16	SOD	eP	04	45	11						
	KJN	eP	04	45	14						
	KEV	eS	04	52	08						
		eSS			55 46						
	H: 04 36 37.7										
	35.2 N, 35.6 W, 33 km (R)										
	North Atlantic Ridge										
16	KJN	eP	11	20	14	1.1	12.5				
16	SOD	eP	12	29	53						
	KJN	iP	12	29	59.7	0.8	6.8				
	KEV	eSKS	12	40	20						
	H: 12 16 49.9										
	5.2 N, 77.5 W, 15 km										
	Colombia										
16	SOD	iP	12	48	03.2 U						
		eS			57 40						
	KJN	iP	12	47	53.2 U	1.7	451.8				
		iPP			50 34.4						
		eS			57 24						
	KEV	iP	12	48	13.0	1.7	299.5				
		i			18.3						
		i			26.3						
		eS			58 00						
		eSS	13	02	08						
	H: 12 36 23.3										
	0.6 S, 19.9 W, 33 km (R)										
	Central Mid-Atlantic Ridge										

August				August			
	T	A		T	A		
16	KJN ePKP	15 03 57		17	SOD iP	10 46 56.2 U	
	H:	14 44 48			KJN iP	10 46 49.2 U	1.0 27.4
		17.4 S, 167.7 E, 20 km			i	47 21.2	
		New Hebrides Islands			e	50 29	
16	SOD ePKP	17 21 30			iS	56 30.2	
	KJN ePKP	17 21 52			ePS	57 13	
	H:	17 01 26.8		17	KEV iP	10 47 00.4 D	0.8 24.0
		61.4 S, 154.3 E, 33 km (R)			i	10.2	
		Balleny Islands region			eS	56 52	
16	SOD eP	20 01 45			eSS	11 01 08	
	i	54.5			H:	10 35 04.1	
	KEV eP	20 01 58				5.3 N, 96.2 E, 33 km (R)	
	H:	19 53 18				Northern Sumatra	
		35.9 N, 35.0 W, 33 km (R)		17	SOD iP	10 56 56.0	
		Azores Islands region			KJN eP	10 56 49	
17	SOD eP	00 30 57		17	SOD eP	11 24 53	
	H:	00 22 23.9		17	SOD eP	13 04 30	
		35.1 N, 35.2 W, 33 km (R)			KJN eP	13 04 22	
		North Atlantic Ridge			KEV eP	13 04 40	
17	SOD eP	00 34 36			H:	12 52 45	
	KEV iP	00 34 31.5	1.0 27.4			5.3 N, 96.2 E, 99 km	
						Northern Sumatra	
17	SOD iP	07 48 31.3 U		17	KJN iP	13 06 06.5	0.8 11.9
	ipP	48.3		17	SOD iP	13 18 39.0 U	
	KJN iP	07 48 34.9 U	1.2 65.9		KJN iP	13 18 44.5	
	KEV eS	07 58 36			H:	13 04 30.4	
	H:	07 36 17				6.6 S, 147.2 E, 89 km	
		12.4 N, 125.7 E, 76 km				East New Guinea region	
		Samar, P.I.		17	SOD eP	13 26 17	
17	SOD iP	07 52 59.4			KJN iP	13 26 38.2	0.8 16.1
	KJN iP	07 53 03.8 U	1.2 71.0		H:	13 16 12.7	
17	SOD iP	08 18 19.2 U				52.0 N, 175.2 W, 33 km (R)	
	KJN iP	08 18 22.0 U	1.2 74.4			Andreanof Islands	
	H:	08 06 08		17	SOD iP	14 14 48.1	
		12.4 N, 125.7 E, 115 km			KJN eP	14 15 00	
		Samar, P.I.			H:	14 02 19	
17	SOD eP	08 50 29				15.2 N, 92.1 W, 121 km	
	KJN eP	08 50 32	1.1 13.9			Mexico-Guatemala border	
17	KJN eP	08 55 49		17	SOD eP	14 22 43	
	H:	08 46 01.3			KJN iP	14 22 44.7 D	0.9 14.5
		53.9 N, 160.8 E, 5 km		17	SOD iP	14 26 11.7	
		Kamchatka			KJN iP	14 26 14.1	1.0 12.5
17	KJN eP	10 30 56					
	H:	10 20 29					
		52.3 N, 169.6 W, 33 km (R)					
		Fox Islands					

August

August

				T	A					T	A
		eSb	55.5					e	20 08		
		eSg	59.5					eSP	26		
		eRg	03 14					epS	21 10		
	KJN	iPn	04 02 41.3					eSS	25 44		
		iSn	03 55.8					e	31 07		
		iSb	04 21.8					e	33 13		
		iSg	33.3					e	35 22		
	KEV	iPn	04 01 49.8					H: 05 54 50.0			
		iPb	54.5					5.7 S, 128.6 E, 326 km			
		iPg	56.7					Banda Sea			
		iSn	02 22.8								
		iSb	31.5					20	KJN	eP	08 44 09
		eSg	35.8								
		i	37.0								
		eRg	41.5								
20	SOD	iSg	04 36 28.8					20	SOD	epPKP	10 01 31
	KJN	iPn	04 32 39.5							epPP	02 26
		iSn	34 39.3							eSKS	07 34
		iSb	35 40.3							e	12 05
		iSg	56.8							iPKKP	21.7
										epPKKP	53
20	SOD	iP	06 07 58.3					KJN	epP	09 57 51	
		i	10 41.4						ipPKP	10 01 37.5	1.0 32.5
		eSKS	18 02						epPP	02 20	
		eS	56						iSKS	07 31.6	
		iSP	20 34.8						iPKKP	12 19.8	
		ePKKP	24 17						ipPKKP	53.6	
		eSKKP	27 25					KEV	epP	09 57 30	
	KJN	iP	06 07 57.8 U	1.0	138.0				epPKP	10 01 35	1.0 60.2
		ipP	09 23.8						eSKS	07 32	
		iPP	12 08.9						eSKKS	08 24	
		esPP	14 09						eS	09 06	
		iSKS	18 03.3						eSP	10 49	
		eSKKS	24						epPS	11 38	
		i	35.8						eSS	16 56	
		iS	54.8						H: 09 42 48.5		
		e	20 09						19.0 S, 69.1 W, 129 km (R)		
		eSP	32						Northern Chile		
		e	22 33					20	NUR	iPKP	21 41 03.0
		ipPKP	24 17.4							i	10.0
		e	41							ipPKP	32.7
		iSKKP	27 25.8							isPKP	47.5
	KEV	iP	06 07 56.6 D	1.5	123.1					ePP	44 06
		epP	09 14							iSKP	42.0
		ePP	12 06							e	50 52
		epPP	13 34							ePSKS	53 52
		e	16 42							ePPS	56 14
		e	17 36							e	58 04
		eSKS	18 00							eSS	22 01 44
		eSKKS	28							eSSS	06 38
		eS	50							eLR	22 27
		cont.								cont.	

August				T	A	August				T	A	
22	NUR	iPKP	05 07 13.0	0.9	31.9	SOD	iP	14 14 38.2				
	KJN	ePKP	05 07 03				i	43.2				
			H: 04 47 26.8			KJN	iP	14 14 06.3	2.0	336.0		
			33.5 S, 179.2 W, 8 km				i	12.3	1.0	203.0		
			South of Kermadec Islands				eS	18 22				
22	NUR	eP	05 22 18			KEV	iP	14 15 00.9				
			H: 05 11 42.2				i	05.4	1.2	170.2		
			52.3 N, 173.2 E, 43 km				e	39				
			Near Islands				eS	19 50				
							e	20 02				
							e	24				
22	NUR	iPKP	10 59 20.6 D	1.1	192.8		eLQ	14 22.0				
		i	28.6					H: 14 08 58.1				
		e	45					40.5 N, 26.1 E, 33 km (R)				
		i	11 00 25.0					Turkey				
	SOD	ePKP	10 59 11			23	KJN	eP	18 56 30			
	KJN	iPKP	10 59 10.3	0.8	13.9			H: 18 45 12				
			H: 10 39 41.9					23.3 N, 120.7 E, 47 km				
			28.9 S, 175.9 W, 15 km					Taiwan				
			Kermadec Islands									
22	NUR	iP	13 29 28.0 D	0.6	21.3	23	NUR	iP	19 59 01.8 D	1.8	658.8	
	SOD	iP	13 28 48.2					i	04.0 D			
	KJN	iP	13 29 03.7	0.8	13.0			e	20 01 39			
			H: 13 20 02.1					iPP	02 37.0			
			50.6 N, 150.1 E, 487 km					eSKS	09 35			
			Kurile Islands					eScS	10 19			
22	NUR	eP	22 47 30					ePS	11 07			
	KJN	eP	22 47 26					eP'P'	24 20			
22	NUR	eP	23 20 35			SOD	iP	19 58 43.3				
	SOD	eP	23 21 41				i	48.3				
	KJN	eP	23 21 11				i	20 00 19.7				
23	NUR	eP	00 17 21	0.9	16.8		iPP	02 09.9				
	SOD	eP	00 17 08				ePPP	03 40				
	KJN	eP	00 17 16				eS	09 08				
23	NUR	eP	03 24 50			KJN	eScS	32				
	KJN	eP	03 24 26				iP	19 58 57.2 U				
			H: 03 13 58.2				iPP	20 02 28.2				
			52.2 N, 169.2 W, 20 km				ePPP	04 23				
			Fox Islands				eSKS	09 26				
							eS	49				
							eScS	10 10				
							eP'P'	24 35				
23	NUR	iP	14 13 28.0	1.2	219.0	KEV	iP	19 58 39.0 U				
		i	37.0				i	42.7 D				
		e	14 20				e	20 01 40				
		e	15 14				iPP	58.0				
		eS	17 04				e	07 26				
		e	18 20				eS	09 15				
		eLQ	14 19.0				e	22				
		eLR	14 19.2					H: 19 46 02.9				
								16.3 N, 95.8 W, 28 km				
								Oaxaca, Mexico				

cont.

August				T	A	August				T	A
23	NUR	iPKP	21 49 34.2	0.8	79.4	24	NUR	ePKP	07 25 32		
		i	50.0					i	41.1 U	0.8	47.0
	SOD	ePKP	21 49 15					epPKP	26 57		
	KJN	ePKP	21 49 22	0.9	9.8			iSKP	28 50.2		
	KEV	ePKP	21 49 16					ePKS	29 15		
	H: 21 29 59							esPP	44		
	30.8 S, 178.1 W, 49 km						SOD	iPKP	07 25 28.7		
	Kermadec Islands region							iSKP	28 30.1		
23	SOD	eP	23 25 07				KJN	ePKP	07 25 23		
	KJN	eP	23 25 16					i	34.0	1.1	97.2
	H: 23 12 27.1							epPKP	26 51		
	16.2 N, 95.5 W, 33 km (R)							iSKP	28 38.6		
	Oaxaca, Mexico							iPKS	29 03.1		
23	SOD	iP	23 26 27.0					ipPKS	30 17.1		
	KEV	eP	23 26 22	0.9	8.2		KEV	eSKKP	37 37		
	H: 23 13 47.2							iPKP	07 25 24.8	1.0	40.0
	15.9 N, 95.7 W, 48 km (R)							iSKP	28 27.0		
	Oaxaca, Mexico							ePKS	48		
	H: 07 06 50.0							H: 07 06 50.0			
	15.9 N, 96.2 W, 12 km							21.9 S, 177.3 W, 290 km (R)			
	Oaxaca, Mexico							Fiji Islands region			
24	NUR	eP	01 09 25			24	SOD	eP	12 58 39		
	SOD	iP	01 09 07.6				KJN	eP	12 59 14		
	KJN	eP	01 09 19			24	NUR	eP	13 22 26	1.2	20.4
	KEV	eP	01 09 02					ePP	24 48		
		ePP	12 20					eS	30 32		
		eS	19 24					eScS	32 18		
	H: 00 56 21.4						SOD	eP	13 21 38		
	15.9 N, 96.2 W, 12 km							e	50		
	Oaxaca, Mexico						KJN	iP	13 22 03.0	1.2	22.6
24	NUR	eP	01 13 57	1.4	25.2		KEV	eP	13 21 20		
	SOD	iP	01 13 43.1 D					e	36	1.2	31.4
	KJN	iP	01 13 53.7	1.0	17.4			ePP	23 20		
		ePP	17 24					eS	28 38		
	KEV	iP	01 13 37.0	0.9	19.7			eSS	33 08		
		ePP	16 48					H: 13 12 19.4			
		eS	24 00					59.4 N, 145.6 W, 19 km			
	H: 01 01 00.8							Gulf of Alaska			
	16.2 N, 96.2 W, 31 km					24	KJN	ePKP	22 40 59		
	Oaxaca, Mexico							eSKP	43 54		
24	NUR	eP	01 16 24	1.0	18.5		H: 22 22 20.6				
		i	34.9				25.1 S, 179.0 W, 384 km				
	SOD	iP	01 17 26.7				South of Fiji Islands				
	KJN	eP	01 16 57			25	NUR	eP	00 02 11		
	KEV	iP	01 17 47.5	1.0	23.5			eS	06 04		
	H: 01 11 05.1						SOD	iP	00 03 20.8		
	35.7 N, 23.3 E, 33 km (R)						KJN	eP	00 02 49		
	Crete						KEV	eS	00 08 26		
	H: 23 57 37						H: 23 57 37				
24	SOD	eP	05 36 41				40.2 N, 26.3 E, 39 km				
	KJN	eP	05 36 45				Turkey				

August				T	A	August				T	A	
25	NUR	iP	05 03 16.4	0.7	11.9	KEV	iP	18 31 55.2 D	0.8	41.8		
		eS	07 40			H: 18 22 02.8						
	SOD	iP	05 04 17.8			44.6 N, 148.9 E, 38 km (R)						
	KJN	iP	05 03 48.0	0.8	13.0	Kurile Islands						
	KEV	eP	05 04 43			28	SOD	eP	01 20 06			
	H: 04 57 47.5						KJN	eP	01 19 41			
	34.7 N, 25.1 E, 26 km					28	NUR	iSg	05 05 55.8			
	Crete						SOD	iSg	05 06 44.8			
25	NUR	eP	16 21 31				i		50.3			
	SOD	eP	16 20 46				KJN	iSg	05 06 31.2			
	KJN	eP	16 21 07	1.0	8.1	28	NUR	eP	08 01 03	0.6	6.4	
	H: 16 10 37						SOD	iP	08 00 19.1 U			
	51.9 N, 168.0 W, 33 km (R)						KJN	iP	08 00 37.4	0.9	15.2	
	Fox Islands						KEV	eP	08 00 02			
25	SOD	eP	21 26 07			H: 07 50 41						
	KJN	iP	21 25 41.3			51.6 N, 159.3 E, 33 km (R)						
26	SOD	eP	15 13 18			Kamchatka						
	KJN	eP	15 13 26			28	NUR	iPKP	18 50 19.8 D	0.7	14.5	
	H: 15 02 02.8						KJN	ePKP	18 50 09			
	29.7 N, 140.5 E, 95 km						i		15.3			
	South of Honshu, Japan					H: 18 31 08.9						
27	NUR	eP	04 28 48	0.9	17.2	27.7 S, 177.8 W, 180 km (R)						
		i	29 03.3	1.0	75.9	Kermadec Islands						
		eS	33 19			29	NUR	epP	01 59 06			
		e	32				ePP	02 02 16				
		eSS	34 23				eSKS	08 54				
		eLR	04 39.5				e	09 54				
	SOD	eP	04 29 30				ePS	10 44				
		e	40				eSS	15 44				
		e	35 09				eLR	02 28.5				
	KJN	iP	04 29 03.4	0.8	14.2		SOD	eP	01 58 32			
		i	17.0				ipP		53.1			
		i	33 50.2				ePP	02 01 55				
	H: 04 23 18						KJN	iP	01 58 41.5			
	39.8 N, 49.8 E, 33 km (R)						epP	59 03				
	Caspian Sea						KEV	iP	01 58 26.8			
27	KJN	eP	07 22 38				esP	59 15				
	H: 07 10 57						epS	02 09 24				
	27.8 N, 142.6 E, 33 km (R)						esPS	10 22				
	Bonin Islands region					H: 01 45 57.3						
27	NUR	iP	18 32 45.9 D	1.0	55.4	14.1 N, 90.5 W, 107 km						
		eS	41 26			Guatemala						
		eScS	42 28			29	NUR	iSn	04 05 01.7			
		eSSS	49 14				iSb		49.6			
	SOD	iP	18 32 07.3 U				iSg		06 00.4			
	KJN	iP	18 32 22.0 D	0.8	77.1		SOD	eSn	04 05 35			
	cont.						eSg		06 44.7			
						cont.						



September

						T	A
1	NUR	iP	04 38 39.6 D	0.9	156.5		
		iPcP	39 17.6				
		eS	46 15				
	SOD	iP	04 37 59.7 D				
		ePP	39 53				
	KJN	iP	04 38 15.0 D	0.9	123.0		
		iPcP	39 02.9				
		eS	45 29				
	KEV	iP	04 37 45.7 D	0.9	67.2		
		H:	04 29 21.8				
			51.3 N, 150.6 E, 537 km				
			Sea of Okhotsk				
1	NUR	iPKP	05 07 09.0	1.0	129.2		
		epPKP	45				
		i	08 51.0				
	SOD	ePKP	05 06 54				
		eSKP	10 23				
	KJN	iPKP	05 06 59.9 U	0.9	137.8		
		ipPKP	07 44.2				
		isPKP	59.9				
		iSKP	10 27.4				
		esPP	50				
	KEV	ePKP	05 06 53				
		eSKP	10 18				
		H:	04 47 34.9				
			34.6 S, 179.6 E, 107 km (R)				
			South of Kermadec Islands				
1	NUR	iPKP	06 57 16.7	1.0	143.5		
		ipPKP	58 15.0				
	SOD	iPKP	06 57 07.2 D				
	KJN	iPKP	06 57 10.5 U	1.0	102.1		
	KEV	iPKP	06 57 04.0 U	1.0	43.1		
		H:	06 38 36.2				
			14.5 S, 167.4 E, 189 km				
			New Hebrides Islands				
1	NUR	eP	07 13 38	0.7	10.6		
	SOD	iP	07 13 09.1				
	KJN	iP	07 13 18.3	0.6	19.8		
		H:	07 02 20.9				
			34.2 N, 138.9 E, 48 km				
			Honshu, Japan				
2	KJN	ePKP	00 10 37				
		H:	23 52 35.7				
			18.0 S, 178.1 W, 620 km				
			Fiji Islands				
2	NUR	iP	00 31 17.9 D	0.8	13.2		
	SOD	eP	00 30 40				
			cont.				

September

						T	A
	KJN	eP	00 30 55				
		H:	00 20 31.3				
			44.1 N, 149.2 E, 33 km (R)				
			Kurile Islands				
2	NUR	eP	02 20 31				
	KJN	eP	02 20 17				
		H:	02 08 02.1				
			29.0 N, 112.9 W, 33 km (R)				
			Gulf of California				
2	NUR	iSn	04 05 05.3				
		iSb	49.2				
		iSg	06 05.6				
	SOD	eSg	04 06 55				
	KJN	iPn	04 03 37.6				
		iSn	05 35.3				
		iSb	06 25.9				
		iSg	50.4				
2	NUR	iP	04 37 18.0 U	0.9	99.8		
		i	24.6				
		i	34.0				
		iPcP	50.4				
		ePP	39 40				
		ePPP	41 10				
		iScS	47 10.2				
	SOD	iP	04 36 33.7 U				
		iPcP	37 23.8				
	KJN	iP	04 36 53.7 U	1.0	103.7		
		i	37 04.9				
		iPcP	35.8				
		iPP	39 06.9				
		eScS	46 40				
		eP'P'	05 06 05				
	KEV	iP	04 36 17.2 U	1.0	64.0		
		i	26.7				
		i	37 04.3				
		ePcP	15				
		ePP	38 36				
		ePPP	39 50				
		eS	44 05				
		H:	04 26 37.3				
			51.9 N, 175.5 E, 31 km (R)				
			Rat Islands				
2	SOD	iP	04 56 40.4				
2	NUR	iP	18 14 15.6	0.7	13.2		
	SOD	iP	18 13 46.3				
	KJN	iP	18 13 56.5	0.8	21.2		
	KEV	eP	18 13 37				
		H:	18 03 11.4				
			36.0 N, 139.8 E, 94 km				
			Honshu, Japan				

September

					T	A
	KJN	iP	07 59 12.2 D		1.2	82.8
	KEV	iP	07 58 34.1 D		1.1	50.0
	H: 07 48 45.1					
	52.0 N, 170.4 W, 38 km					
	Fox Islands					
4	NUR	iP	10 30 31.8 U		0.7	38.3
		ePP	32 52			
		ePPP	34 34			
		eS	39 10			
		eScS	40 30			
		eSS	43 28			
		eLR	10 51.0			
	SOD	iP	10 29 52.5 D			
	KJN	iP	10 30 08.1 D		1.0	39.9
	KEV	iP	10 29 39.3		0.9	13.4
		ePP	31 38			
		ePPP	33 06			
		eS	37 36			
		eScS	39 28			
		eSS	41 24			
	H: 10 19 51.3					
	46.6 N, 153.5 E, 27 km					
	Kurile Islands					
4	NUR	eP	12 44 33			
	SOD	eP	12 43 54			
	KJN	eP	12 44 09			
	H: 12 33 53.5					
	46.6 N, 153.1 E, 33 km (R)					
	Kurile Islands					
4	NUR	iP	14 43 05.0 U		0.9	636.4
		ePP	45 30			
		ePPP	46 34			
		i	47 10.0			
		e	22			
		eS	51 26			
		ePS	50			
		eScS	53 17			
		eSS	56 00			
		eP'P'	15 12 24			
		eLQ	14 58.5			
	SOD	iP	14 42 17.1 U			
		iS	50 02.8			
		ePS	17			
		eP'P'	15 12 37			
	KJN	iP	14 42 41.3 U		1.0	467.4
		ePcS	47 08			
		eS	50 46			
		ePS	51 05			
		e	52 52			

cont.

September

					T	A
		eP'P'	15 12 26			
		i	45.8			
	KEV	iP	14 41 59.0 U		1.0	460.0
		ePcS	46 52			
		eS	49 20			
		ePS	26			
		e	46			
		eP'P'	15 12 25			
	H: 14 32 47.9					
	58.2 N, 152.6 W, 19 km					
	Kodiak Island					
4	SOD	ePKP	21 56 54			
	KJN	ePKP	21 56 53			
	H: 21 37 26.6					
	36.1 S, 98.8 W, 33 km (R)					
	Southern Pacific Ocean					
5	NUR	eP	07 37 23			
	SOD	iP	07 36 49.5			
	KJN	eP	07 37 01		0.9	12.8
	H: 07 26 19					
	39.2 N, 144.2 E, 43 km					
	Honshu, Japan					
5	KJN	ePKP	21 40 47			
	H: 21 22 37.0					
	20.4 S, 178.3 W, 562 km					
	Fiji Islands					
5	KJN	eP	22 08 02			
5	SOD	eP	23 13 14			
	KJN	eP	23 13 22			
	H: 23 02 00.6					
	20.8 N, 121.4 E, 105 km					
	Philippine Islands					
6	SOD	iP	03 07 39.8			
	KJN	iP	03 07 41.8		1.3	29.1
	H: 02 56 14.6					
	21.2 N, 121.0 E, 25 km					
	Taiwan					
6	NUR	e	03 30 34			
	SOD	eP	03 30 03			
	KJN	iP	03 30 04.8 U		1.2	33.3
	KEV	eP	03 29 53			
		eS	39 10			
		eSS	43 50			
		eSSS	47 38			
	H: 03 18 39.1					
	21.2 N, 121.4 E, 33 km					
	Taiwan					

September						September			
				T	A				
6	NUR eP	11 53 16				7	SOD iP	15 52 04.0	
	SOD iP	11 52 36.0					i	12.2	
	KJN eP	11 52 53					KJN eP	15 52 11	1.0 11.6
	H:	11 42 36.8					i	18.9	
		46.6 N, 152.7 E, 33 km (R)					H:	15 40 05	
		Kurile Islands						18.2 N, 144.2 E, 293 km	
6	NUR eP	14 57 15				8	NUR iP	03 36 43.0 D	0.8 38.2
	e	30					i	50.2 U	0.9 129.0
	SOD eP	14 55 55					eS	45 08	
	i	56 05.2					eScS	46 34	
	eS	57 30					SOD iP	03 35 54.3 D	
	KJN eP	14 56 37	0.9	14.5			i	36 01.0	
	i	42.5	0.9	24.1			eS	43 38	
	KEV eP	14 55 31					KJN iP	03 36 17.9 D	0.8 31.2
	eS	56 42					i	24.5 U	0.9 103.3
6	NUR eP	20 17 43					iPcP	37 04.8	
6	KJN eP	21 26 45					eS	44 23	
	H:	21 13 30.5					KEV iP	03 35 36.1 D	0.7 25.8
		6.6 N, 84.4 W, 21 km					i	43.0 U	0.9 62.2
		Central America					i	36 20.0	
7	KJN iP	06 23 12.9	1.0	22.8			eS	43 04	
	H:	06 16 48.4					H:	03 26 20.7	
		35.3 N, 4.4 E, 33 km (R)						57.5 N, 152.1 W, 25 km (R)	
		Algeria						Kodiak Island	
7	NUR iP	07 09 44.9 U	1.0	43.1		8	NUR eP	07 14 06	
	eS	19 52					SOD iP	07 13 41.2 D	
	SOD iP	07 09 19.2 U					epP	14 12	
	KJN iP	07 09 27.1 U	1.0	63.8			KJN iP	07 13 48.3 D	1.0 53.4
	i	10 11.4					ipP	14 20.2	
	KEV iP	07 09 11.3	1.0	50.0			KEV iP	07 13 33.9 D	0.8 36.0
	i	32.0					epP	14 11	
	eS	18 55					H:	07 01 31.8	
	H:	06 57 24.8						19.2 N, 145.3 E, 139 km	
		24.3 N, 142.6 E, 16 km						Mariana Islands	
		Volcano, Islands				8	NUR iP	11 27 07.7	0.9 65.4
7	NUR ePKP	08 47 55					i	09.0	
	H:	08 28 51.2					i	25.0	
		15.6 S, 167.1 E, 28 km (R)					eS	35 43	
		New Hebrides Islands					eScS	37 12	
7	KJN ePKP	11 32 31					eSS	39 54	
	eSKP	35 20					SOD iP	11 26 18.8	
	H:	11 14 06.4					i	27.6	
		18.5 S, 177.3 W, 391 km					KJN iP	11 26 43.2 U	1.0 33.6
		Fiji Islands					KEV iP	11 26 02.2 U	0.9 58.8
							i	09.3	
							ePP	27 56	
							eS	33 42	
								cont.	

September						September						
				T	A					T	A	
12	NUR	eP	06 52 09	1.0	20.0	12	KJN	eP	21 34 52			
									H: 21 25 06			
12	NUR	iPKP	07 17 16.7	0.9	30.2				52.9 N, 158.5 E, 33 km (R)			
		epPKP	49						Kamchatka			
	KJN	iPKP	07 17 09.7	0.8	11.3							
		epPKP	42									
			H: 06 58 33.8			12	NUR	eP	22 06 38	0.8	17.3	
			11.2 S, 166.4 E, 124 km (R)				SOD	iP	22 06 15.5 U			
			Santa Cruz Islands				KJN	iP	22 06 22.5 U	0.8	19.1	
							KEV	iP	22 06 08.3 D	0.7	45.2	
									H: 21 54 40.7			
12	NUR	eP	08 54 50						21.6 N, 142.9 E, 319 km			
		iPKP	58 47.4 U	1.1	57.1				Mariana Islands			
		ePP	59 38									
		eSKS	09 05 26			12	NUR	iP	22 14 18.2 D	1.6	298.7	
		eSKKS	06 30					i	15 09.7			
		eS	07 10					ePP	17 18			
		e	08 36					eS	23 58			
		ePS	09 06					eScS	24 34			
		ePKKP	26					eSS	28 50			
		ePPS	10 04					eSSS	32 28			
		eSS	15 06					eLQ	22 35			
		eSSS	19 38					eLR	22 39.1			
	SOD	eP	08 54 40				SOD	iP	22 14 41.8 D			
		iPKP	58 38.3 U					eS	24 46			
		ePKKP	09 09 46					KJN	iP	22 14 26.5 D	1.5	274.5
		e	58					e	15 22			
	KJN	eP	08 54 37					eS	24 14			
		iPKP	58 41.4 U					KEV	iP	22 14 50.5 D	1.5	233.5
		ePP	59 13					ePP	18 06			
		iPKKP	09 42.9					eS	25 00			
		i	54.0					eScS	28			
	KEV	eP	08 54 26					e	26 48			
		ePKP	58 35					eSS	30 09			
		ePP	59 07					e	32			
		ePPP	09 01 04					eSSS	33 51			
		eSKS	05 05					eLR	22 41.1			
		eSKKS	55						H: 22 02 34.3			
		ePS	08 10						6.4 S, 70.8 E, 33 km (R)			
		ePPS	09 07						Chagos Archipelago			
		eSS	14 08									
			H: 08 40 12.8									
			6.3 S, 151.6 E, 48 km									
			New Britain									
12	SOD	eP	17 14 53			13	NUR	eP	00 56 44	0.7	9.0	
			H: 17 01 53				KJN	eP	00 56 19			
			3.2 N, 126.5 E, 68 km						H: 00 45 56			
			Talau Islands						51.9 N, 171.9 W, 79 km			
									Fox Islands			

September							September						
			T	A					T	A			
13	NUR	iP	13 17 57.0 D	1.2	71.3	14	NUR	iP	08 40 07.2 U	1.0	76.0		
		i	18 03.3	0.8	77.8			i	19.2				
		ePP	20 18					ePP	43 31				
		ePPP	21 39					e	49 20				
		eS	26 10					eSKS	50 32				
	SOD	iP	13 17 11.0 U					eS	52				
		i	16.7					ePS	51 56				
		iPcP	18 23.1				SOD	iP	08 39 56.0				
		ePP	19 13					e	40 05				
	KJN	iP	13 17 30.9	1.0	25.1			eS	50 28				
		i	36.8	1.0	53.6		KJN	iP	08 39 56.8	0.9	67.5		
		ePcP	18 33					i	40 07.2				
		ePP	19 41					eS	50 30				
	KEV	eP	13 16 55					e	38				
		ePP	19 06				KEV	eP	08 39 52				
		eS	24 08					eSKS	50 15				
		ePS	26					eS	22				
	H: 13 07 48.3						H: 08 27 15.9						
	55.5 N, 165.7 E, 23 km (R)						8.4 N, 126.8 E, 33 km (R)						
	Komandorsky Islands						Mindanao, P.I.						
13	NUR	ePKP	16 35 33			14	NUR	iP	09 12 01.5	0.7	10.3		
		ePP	37 48				SOD	iP	09 11 31.2				
		eSPP	49 36				KJN	iP	09 11 40.4 U	0.7	16.2		
		eSS	55 20				H: 09 00 49.4						
	KJN	ePKP	16 35 08				35.3 N, 140.7 E, 76 km						
	H: 16 15 44.5						Honshu, Japan						
	36.5 S, 97.5 W, 33 km (R)												
	Central Pacific Ocean												
13	KJN	ePKP	19 43 40			14	NUR	eP	11 26 00				
	H: 19 25 30.8												
	20.9 S, 178.8 W, 598 km												
	Fiji Islands												
13	NUR	eP	20 17 11			14	NUR	iP	14 28 51.8	1.0	16.0		
	H: 20 06 32						SOD	iP	14 28 06.2				
	51.9 N, 173.0 E, 33 km (R)							ePcP	56				
	Near Islands						KJN	iP	14 28 26.5 D	1.0	19.4		
								iPcP	29 08.2				
							H: 14 18 03.5						
							51.4 N, 174.6 E, 11 km						
							Near Islands						
14	NUR	iP	00 12 36.0	0.7	16.8	14	NUR	eP	21 13 52	1.0	14.0		
	SOD	eP	00 12 25				SOD	eP	21 13 38				
	KJN	iP	00 12 24.6 U	0.8	28.9		KJN	eP	21 13 39				
	H: 00 12 25.7						H: 21 02 25.7						
	22.8 N, 120.7 E, 61 km						22.8 N, 120.7 E, 61 km						
	Taiwan						Taiwan						
14	NUR	iP	08 20 07.3			14	NUR	iP	22 07 04.7	0.9	16.8		
	KJN	eP	08 20 46					i	15.0				
	H: 08 15 04						SOD	eP	22 06 51				
	37.5 N, 19.6 E, 33 km (R)						KJN	iP	22 06 53.4	0.8	21.2		
	Ionian Sea							e	07 03				
							H: 21 54 13.5						
							8.6 N, 127.1 E, 33 km (R)						
							Philippine Islands						

September				T	A	September				T	A	
16	KJN	ePKP	21 21 37	1.0	13.7	17	NUR	eP	11 27 08			
			H: 21 02 41.6					i	10.2 U	1.3	115.9	
			15.4 S, 168.4 E, 33 km (R)					epP	50			
			New Hebrides Islands					ePP	31 02			
								e	33			
17	NUR	eP	00 04 36					eSKS	37 28			
	SOD	eP	00 04 27					eS	38 14			
	KJN	iP	00 04 27.4 D	0.8	20.4			eSP	39 32			
	KEV	eP	00 04 25					eSPP	40 24			
			H: 23 51 35					e	41 42			
			1.9 N, 125.7 E, 141 km				SOD	iP	11 27 06.3			
			Molucca Passage					i	07.4 U			
17	NUR	eP	00 05 01					ePP	31 04			
	SOD	eP	00 05 18					eSKS	37 26			
	KJN	eP	00 05 02				KJN	iP	11 27 12.6	0.7	69.5	
	KEV	eP	00 05 26					epP	59			
			H: 23 57 55					e	29 38			
			36.1 N, 70.2 E, 117 km					eSKS	37 32			
			Hindu Kush				KEV	eP	11 27 03			
17	SOD	eP	01 23 36					i	05.9	1.3	187.6	
	KJN	iP	01 23 59.3	0.8	11.9			epP	50			
	KEV	eP	01 23 19					e	30 18			
			H: 01 13 45					ePP	52			
			54.2 N, 162.7 W, 50 km (R)					esPP	32 10			
			Alaska Peninsula					iSKS	37 26			
17	NUR	iP	04 06 22.2	0.5	17.2			eS	38 06			
		e	58					ePS	39 36			
		e	07 14					esPS	40 40			
	SOD	iP	04 06 16.2					e	41 20			
	KJN	iP	04 06 09.0 U	0.6	36.4			eSS	44 48			
		i	07 11.4					eSSS	48 34			
	KEV	iP	04 06 19.0					H: 11 13 56.4				
		e	07 10					1.4 S, 77.6 W, 190 km (R)				
			H: 03 59 57.5					Ecuador				
			49.8 N, 78.1 E, 0 km (R)				17	SOD	eP	12 18 28		
			Eastern Kazakh SSR					KJN	iP	12 18 38.8	0.9	20.2
								H: 12 07 07.5				
								32.1 N, 134.3 E, 36 km				
								Shikoku, Japan				
17	NUR	ePKP	08 38 11			17	NUR	iP	13 10 28.3	1.0	46.0	
		iSKP	41 00.0					e	38			
	SOD	iSKP	08 40 41.1					SOD	iP	13 09 57.5 U		
	KJN	ePKP	08 38 09					KJN	iP	13 10 07.8 U	1.1	107.0
		iSKP	40 49.0					i	16.8			
			H: 08 19 53.8					e	54			
			23.3 S, 179.3 E, 544 km					ePP	12 32			
			South of Fiji Islands					cont.				

September						September					
				T	A						
						T		A			
	KEV	eP	13 09 47	1.0	38.0	SOD	iP	15 29 17.2 U			
		eS	18 20				i	28.0			
	H:		12 59 19.3				ePP	31 41			
			36.7 N, 141.2 E, 57 km			KJN	iP	15 29 27.9	1.0	216.6	
			Honshu, Japan				i	37.1			
17	NUR	iP	13 32 09.8	1.5	116.8		e	30 13			
		i	20.0				ePP	31 54			
	SOD	iP	13 31 38.3 U			KEV	iP	15 29 07.4 U	1.0	98.0	
		i	49.4				i	13.5			
	KJN	iP	13 31 49.1 U	0.7	58.2		eS	37 44			
		i	32 00.1				eSS	41 54			
		e	35			H:		15 18 38.4			
	KEV	iP	13 31 28.1 U	1.0	30.0			36.3 N, 141.2 E, 66 km			
		i	40.9					Honshu, Japan			
	H:		13 20 58.3			17	NUR	iPKP	16 07 33.2 U	0.8	24.5
			36.5 N, 141.4 E, 45 km				KJN	iPKP	16 07 25.8	0.7	16.2
			Honshu, Japan				KEV	ePKP	16 07 15		
							H:		15 48 54.2		
								13.7 S, 167.2 E, 200 km (R)			
								New Hebrides Islands			
17	NUR	iP	14 33 50.0	1.0	84.0	17	NUR	iP	16 32 31.0 U	1.2	541.5
		e	34 02				i	41.8			
		e	32				ePP	35 06			
		eS	43 02				e	36 22			
	SOD	iP	14 33 18.3				eS	41 42			
		i	20.0				e	49			
	KJN	iP	14 33 28.5	1.0	176.7		ePS	42 02			
		i	39.9				eScS	50			
		e	34 14				eSS	46 04			
		ePP	35 57				eLQ	16 52.1			
	KEV	iP	14 33 09.0	1.0	80.0		eLR	16 55			
		i	21.3			SOD	iP	16 31 59.9 U			
		eSS	45 44				i	32 10.1			
	H:		14 22 36.5				iPP	34 23.0			
			36.5 N, 141.4 E, 23 km				eS	40 43			
			Honshu, Japan				e	41 02			
17	SOD	eP	15 08 08			KJN	iP	16 32 10.6 U	0.8	704.7	
	KJN	iP	15 08 17.3 U				ePP	34 37			
	H:		14 57 29.8				eS	41 03			
			36.8 N, 141.2 E, 57 km				ePS	25			
			Honshu, Japan			KEV	iP	16 31 50.3 U	1.5	934.0	
							e	32 04			
							ePP	34 10			
17	NUR	iP	15 29 48.2 U	1.0	108.0		ePPP	36 00			
		i	59.0				eS	40 25			
		e	30 32				e	41 20			
		ePP	32 24				eSS	44 26			
		ePS	39 20				eLQ	16 48			
		eSS	43 18			H:		16 21 21.9			
								36.3 N, 141.1 E, 72 km			
								Honshu, Japan			

cont.

September				September			
		T	A			T	A
19	NUR eP	13 28 50		20	NUR eP	11 14 21	0.9 16.8
	SOD iP	13 28 36.4			SOD iP	11 14 08.2 D	
	KJN eP	13 28 38			KJN iP	11 14 09.2	0.6 8.1
	H:	13 16 19.6			H:	11 01 58.0	
		12.8 N, 126.0 E, 35 km				12.0 N, 125.4 E, 117 km	
		Samar, P.I.				Samar, P.I.	
19	NUR eP	14 08 24		20	SOD eP	17 14 05	
	H:	14 03 34.6			KJN eP	17 14 16	
		38.9 N, 27.9 E, 33 km (R)			e	25	1.0 19.3
		Turkey			KEV eP	17 13 57	
					eS	22 26	
					H:	17 03 21.8	
19	NUR eP	15 54 22				36.1 N, 141.8 E, 57 km	
	SOD eP	15 53 45				Honshu, Japan	
	KJN eP	15 54 02	0.8 5.9	20	NUR iP	17 24 16.1 D	0.7 16.8
	KEV eP	15 53 32	0.9 16.8		SOD iP	17 24 02.6	
	H:	15 42 10.0			KJN iP	17 24 05.1	1.1 27.8
		35.9 N, 120.0 W, 20 km			H:	17 11 42.4	
		Central California				12.1 N, 125.7 E, 32 km	
						Samar, P.I.	
19	NUR eP	18 07 48		20	SOD eP	21 39 34	
	SOD iP	18 08 04.5					
	KJN eP	18 07 47		20	SOD eP	23 30 49	
	KEV eP	18 08 19			KJN eP	23 30 27	1.0 13.7
	Moscow:				BCIS:		
	H:	18 00 36			H:	23 23 25	
		35.9 N, 71.2 E, 104 km				31.1 N, 50.3 E	
		Hindu Kush				Iran	
19	SOD eP	23 36 44		21	NUR iP	01 49 29.7	
	KJN eP	23 36 51			i	42.1	
	H:	23 24 19.2			iPcP	49.6	
		9.9 N, 70.3 W, 33 km (R)			ipP	50 20.5	
		Venezuela			i	26.0	
20	NUR eP	10 04 49	0.8 15.8		esP	38	
					e	51 50	
20	NUR eP	10 10 23			ePP	52 13	
	eS	21 05			esPP	53 12	
	SOD e	10 10 20			ePPP	54 03	
	e	26			epPPP	55 06	
	KJN eP	10 10 11	0.7 9.7		eS	58 32	
	i	23.0			ePS	59 15	
	KEV eP	10 10 01			esS	52	
	eS	20 37			eSS	02 03 40	
	H:	09 57 38			eSSS	07 00	
		8.2 N, 126.8 E, 124 km			eP'P'	17 16	
		Mindanao, P.I.					

cont.

September				T	A	September				T	A
SOD	iP	01 49	07.3			KJN	eP	03 35 24	1.0	22.8	
	i		08.6 D				ePcP	36 57			
	iPcP		33.2				ePP	37 26			
	ipP		56.0				e	39 00			
	ePP	51 23				KEV	iP	03 35 16.0	0.7	14.2	
	ePPP	53 20					i	39.8	0.8	43.2	
	eScS	58 34				H: 03 26 37.2					
	esS	59 16				40.7 N, 50.0 W, 23 km (R)					
	e	02 00 13				North Atlantic Ocean					
	eP'P'	17 27				21	NUR	eP	06 31 52		
KJN	eP	01 49 13					SOD	eP	06 32 53		
	i		13.8 D	0.7	62.2		KJN	eP	06 32 25		
	ePcP		38			H: 06 26 04					
	ipP	50 01.5				32.7 N, 21.3 E, 33 km (R)					
	iPP	51 45.5				Near coast of Libya					
	ePPP	53 26				21	NUR	eP	15 53 25		
	epPPP	54 22					SOD	eP	15 54 05		
	e	57 26					KJN	eP	15 53 40	0.9	
	eS	58 03					KEV	eP	15 54 21	9.8	
	iScS		51.5			H: 15 46 04					
	esS	59 23				27.6 N, 55.1 E, 33 km (R)					
	eP'P'	02 17 18				Southern Iran					
KEV	eP	01 49 01				22	NUR	eP	00 03 06		
	i		01.7 D			H: 23 52 42					
	ipP		50.0			46.1 N, 150.3 E, 146 km					
	i	50 29.8				Kurile Islands					
	ePP	51 31				22	NUR	iP	04 35 23.6 D	0.9	
	esPP	52 36					e	44 06		24.1	
	ePPP	53 12					eScS	45 20			
	epPPP	54 02					eSS	48 16			
	e		30				SOD	iP	04 35 21.3		
	e	56 14					i	36 01.8			
	eS	57 40					KJN	iP	04 35 15.8 D		
	eScS	58 39					e	36 13			
	esS	59 00					e	37 21			
	eSS	02 01 36					KEV	iP	04 35 22.7 D	1.0	
	esSS	02 59				H: 04 24 47.8					
	eSSS	05 32				20.8 N, 99.3 E, 35 km					
	eP'P'	17 23				Burma					
H: 01 38 30.2											
29.1 N, 128.2 E, 197 km (R)											
East China Sea											
21	NUR	eP	03 35 11	1.0	28.0						
	SOD	iP	03 34 55.6								
	KJN	iP	03 35 02.4	0.9	15.4						
21	NUR	iP	03 35 21.1 U			22	SOD	eP	07 37 48		
	i		27.0				KJN	eP	07 38 07		
	i		41.8			H: 07 27 33					
	e		36 05			50.7 N, 172.9 W, 35 km (R)					
	SOD	iP	03 35 16.4			Andreanof Islands					
			cont.			22	SOD	eP	09 06 47		

September

September

		T	A			T	A
22	NUR eSS 10 07 52 SOD eP 09 49 02 H: 09 35 25.3 1.3 S, 134.0 E, 14 km West New Guinea					ePP 21 44 ePPP 23 34 eS 28 22 ePS 44 eScS 29 30 eSS 32 32 eSSS 35 46 e 36 32 eLQ 22 38.5 eLR 22 41.5	
22	NUR iPKP 12 58 44.8 U 0.9 24.1 i 47.2 e 59 05 KJN ePKP 12 58 33 H: 12 39 05.0 31.3 S, 176.8 W, 33 km (R) Kermadec Islands					SOD iP 22 18 41.1 U i 42.3 D i 49.4 i 54.3 ePP 21 03 eS 27 24 KJN iP 22 18 51.8 U 0.8 160.8 i 19 04.8 ePP 21 12 eS 27 45 ePS 53 KEV iP 22 18 31.3 0.9 63.8 i 39.0 e 19 09 H: 22 08 01.1 36.4 N, 141.3 E, 44 km (R) Honshu, Japan	
22	NUR eP 13 00 56 i 01 06.7 0.8 22.1 SOD eP 13 00 31 e 41 KJN eP 13 00 37 i 48.1 0.8 13.6 KEV eP 13 00 23 e 34 H: 12 49 42.9 32.5 N, 131.4 E, 6 km Kyushu, Japan						
22	NUR ePKP 17 31 03 H: 17 12 18.1 11.2 S, 162.1 E, 33 km (R) Solomon Islands					22 NUR ePKP 23 56 49 KJN ePKP 23 56 42 H: 23 38 01.9 12.6 S, 166.6 E, 115 km (R) Santa Cruz Islands	
22	NUR ePKP 20 20 19 0.9 12.0 e 31 ePP 21 11 ePS 30 38 ePPS 31 52 eSS 36 26 e 37 22 eSSS 41 20 SOD eP 20 16 03 KJN ePKP 20 20 13 e 25 H: 20 01 49.3 5.4 S, 151.5 E, 57 km New Britain					23 SOD eP 23 27 52 KJN eP 23 28 01 1.1 11.1 H: 23 21 42.2 55.5 N, 35.0 W, 33 km (R) North Atlantic Ocean	
22	NUR iP 22 19 12.1 U 1.0 102.3 i 13.0 D i 20.0 iPcP 36.2 e 58 cont.					24 SOD eP 17 26 28 KEV iP 17 26 20.4 D 0.8 11.5 H: 17 13 52.2 20.2 N, 105.7 W, 33 km (R) Jalisco, Mexico	
22	NUR iP 22 19 12.1 U 1.0 102.3 i 13.0 D i 20.0 iPcP 36.2 e 58 cont.					24 NUR eP 20 49 55 SOD eP 20 50 01 KJN eP 20 49 52 KEV eP 20 50 04 H: 20 38 07.6 5.2 N, 96.1 E, 33 km (R) Northern Sumatra	

September

September

September						September					
				T	A					T	A
25	NUR	iP	00 06 49.6	1.0	24.0	KEV	iP	14 47 30.2 D	0.9	50.4	
		eSKS	17 22				e	38			
	SOD	iP	00 06 29.5				e	48 29			
	KJN	iP	00 06 35.3 D	1.2	56.3		ePP	49 32			
		i	40.2				ePPP	51 12			
	KEV	eP	00 06 24	1.5	60.7		eS	55 50			
		i	27.9				eScS	57 20			
		eS	16 52				eSS	59 54			
	H: 23 53 42.1						H: 14 37 15.4				
	13.1 N, 145.3 E, 58 km						39.7 N, 143.2 E, 44 km				
	Mariana Islands						Honshu, Japan				
25	NUR	eP	00 24 05			25	NUR	iP	14 53 26.3	0.8	28.8
	SOD	iP	00 23 45.0				SOD	iP	14 52 52.9		
	KJN	iP	00 23 51.1	1.2	38.8		KJN	iP	14 53 05.3 U	1.0	82.6
	KEV	iP	00 23 39.2					e	22		
	H: 00 10 59.7							iPcP	39.5		
	13.3 N, 145.2 E, 66 km							i	45.9		
	Mariana Islands						KEV	eP	14 52 42		
							H: 14 42 26.1				
25	NUR	ePKP	01 47 15	0.7	7.7		39.8 N, 143.1 E, 20 km				
		i	27.0				Honshu, Japan				
	KJN	ePKP	01 47 07			25	NUR	iP	15 04 33.1 U	1.0	80.0
	H: 01 27 36.6							i	43.3		
	31.1 S, 177.6 W, 33 km (R)							e	05 02		
	Kermadec Islands							iPP	07 15.3		
25	NUR	eP	10 17 56				SOD	iP	15 03 59.7 U		
	KJN	eP	10 17 57	1.0	9.1			i	04 14.3		
	H: 10 11 29							ePP	06 28		
	54.0 N, 35.4 W, 33 km (R)						KJN	iP	15 04 11.8 U	1.0	218.4
	North Atlantic Ocean							ePP	06 32		
25	NUR	eP	11 07 15	0.9	15.1		KEV	iP	15 03 49.0 U	1.0	64.0
	SOD	iP	11 07 45.6					i	57.0		
	KJN	eP	11 07 36					ePP	06 15		
	KEV	eP	11 07 54	0.8	10.1		H: 14 53 34.9				
	H: 10 55 59.8						39.6 N, 143.2 E, 43 km				
	1.0 S, 21.9 W, 33 km (R)						Honshu, Japan				
	Central Mid-Atlantic Ridge					25	NUR	iP	15 54 57.2 U	1.0	114.0
25	NUR	iP	14 48 13.2	1.0	80.0			iPP	56 12.5		
		i	14.2 D				SOD	iP	15 55 04.4 U		
		eS	57 10				KJN	iP	15 54 51.8 U	1.0	63.5
	SOD	iP	14 47 39.4					i	56.6		
		i	41.0 D					ePP	55 57		
		i	48 51.1					i	56 42.1		
	KJN	iP	14 47 51.7 D	1.0	186.7		KEV	iP	15 55 10.6 U	1.0	44.0
		i	48 00.9					ePP	56 28		
		i	49 03.2				H: 15 47 58.4				
	cont.						41.3 N, 74.9 E, 33 km (R)				
							Kirgiz SSR				

September						September			
				T	A				
25	NUR	eP	17 05 20			26	NUR	eP	04 14 19
	SOD	iP	17 04 59.3				H:	04 03 32	
	KJN	iP	17 05 05.4	1.3	41.8			51.0 N, 178.5 E, 33 km	
		e	27					Rat Islands	
	KEV	eP	17 04 53			26	NUR	iPKP	07 16 48.9 D
	H:	16 52 09.6					KJN	ePKP	07 16 43
		12.9 N, 145.3 E, 42 km					H:	06 57 15.5	0.9 16.8
		South of Mariana Islands						31.0 S, 178.3 W, 60 km	
25	NUR	eP	17 45 24					Kermadec Islands	
	KJN	eP	17 45 24			26	NUR	eP	10 09 42
25	SOD	eP	17 55 27				e	10 20	
	H:	17 43 42.6					eS	14 58	
		34.7 N, 116.5 W, 16 km (R)					SOD	eP	10 09 37
		Southern California					KJN	eP	10 09 47
25	SOD	eP	18 05 28				H:	10 03 18.4	1.4 39.1
	KJN	eP	18 05 49					54.3 N, 35.2 W, 33 km (R)	
								North Atlantic Ocean	
25	NUR	eP	20 16 31	1.0	14.0	26	KJN	ePKP	13 35 15
	e	52					H:	13 15 57.0	
	e	17 12						22.7 S, 176.1 W, 33 km (R)	
	eS	21 42						South of Fiji Islands	
	SOD	iP	20 16 26.6			26	NUR	eP	13 59 15
	e	48					SOD	eP	13 58 31
	e	17 07				26	NUR	iPKP	21 52 51.5
	KJN	iP	20 16 35.5 U	1.0	19.8		e	58	1.0 58.0
	i	57.2					ePP	54 38	
	i	17 20.9					e	56 05	
	KEV	eP	20 16 25				ePKS	27	
	e	48					eSKKS	22 01 32	
	H:	20 10 06.6					ePS	04 48	
		54.1 N, 35.2 W, 33 km (R)					eSS	12 05	
		North Atlantic Ocean					SOD	iPKP	21 53 02.5
26	NUR	eP	00 49 15	1.0	16.0		ePP	55 09	
	SOD	iP	00 48 56.4				iSKP	56 24.3	
	KJN	iP	00 49 09.6	1.0	16.1		ePKS	28	
	KEV	eP	00 48 50				KJN	iPKP	21 52 59.2 D
	H:	00 36 24					i	53 03.1	1.2 88.7
		18.4 N, 101.2 W, 93 km					ePP	55 01	
		Guerrero, Mexico					iSKP	56 17.7	
							ePKS	20	
26	NUR	iPKP	01 21 53.7	0.7	33.5		KEV	iPKP	21 53 06.1 D
	SOD	ePKP	01 21 36				e	21	1.1 83.3
	KJN	ePKP	01 21 42				iPP	55 33.0	
	e	48					iPKS	56 34.5	
	H:	01 02 57.8					eSPP	22 07 26	
		31.9 S, 179.8 E, 392 km					eSS	13 12	
		Kermadec Islands					H:	21 33 54.4	
								54.8 S, 38.2 W, 33 km (R)	
								South Georgia Island	

September

September

			T	A	
	SOD	iP	23 27	18.2 U	
		e		58	
	KJN	iP	23 27	18.9 U	1.3 26.2
		i		24.8	
		ePP	28 41		
	KEV	eP	23 27	24	
	H: 23 20 19.0				
	45.1 N, 28.2 W, 33 km (R)				
	North Atlantic Ocean				
30	SOD	eP	04 51	33	
30	SOD	iSKP	07 27	06.5	
	KJN	eSKP	07 27	14	
	H: 07 06 35.3				
	21.1 S, 179.3 W, 625 km (R)				
	Fiji Islands				
30	SOD	iSKP	07 28	16.5	
	KJN	eSKP	07 28	26	
	H: 07 07 44.3				
	21.1 S, 179.2 W, 604 km				
	Fiji Islands				
30	NUR	eP	21 46	51	
	SOD	iP	21 46	33.8	
	KJN	eP	21 46	35	
		i		37.0	
	KEV	eP	21 46	28	
	H: 21 35 22				
	24.2 N, 122.5 E, 32 km				
	Taiwan				
30	NUR	iP	23 57	53.0	1.1 39.0
		e		58 14	
		ePP	24 00	26	
		ePPP	01 48		
		eS	06 14		
		ePS		26	
		eScS	07 54		
		eSS	10 24		
		eLQ	24 12.5		
		eLR	24 16.1		
	SOD	eP	23 56	58	
		i		57 05.0	
		ePPP	24 00	23	
	cont.				

KJN	eP	23 57	23		
	i		29.0	1.1	44.9
	i		40.6		
KEV	eP	23 56	47		
	i		57 09.3		
	e		20		
	ePP		59 00		
	ePPP	24 00	14		
	e		01 03		
	eS		04 06		
	ePS		24		
	e		05 24		
	eScS		06 46		
	eSS		08 16		
	eLR	24 12.1			
H: 23 47 40.7					
59.7 N, 143.4 W, 19 km					
Gulf of Alaska					

March 23, 1966
Urmass Luosto
Aili Huovila

Underwater explosions in the Gulf of Bothnia

Date	Time	Coordinates	Depth(m)	Charge(kg)
Aug. 31	14 52 01.20	61.03N 20.84E	60	100
31	15 43 01.19	61.04 20.76	65	200
31	16 57 00.92	61.05 20.69	72	300
Sep. 01	13 03 01.59	61.09 20.34	107	80
03	08 19 01.30	61.10 20.27	115	100
03	08 54 01.21	61.10 20.20	115	200
03	09 38 01.28	61.11 20.12	120	300
03	11 40 01.16	61.16 19.65	112	300
03	12 36 01.28	61.15 19.73	130	300
03	13 35 01.22	61.14 19.80	140	300
03	14 22 01.36	61.14 19.88	120	50
06	12 09 01.30	61.03 20.84	60	80
06	12 36 01.28	61.03 20.91	55	90
06	13 41 01.19	61.02 20.97	26	200
06	14 25 01.29	61.01 21.05	33	200
13	15 03 00.82	61.09 20.34	103	80
13	15 25 00.62	61.08 20.41	100	80
13	16 03 00.72	61.07 20.49	100	100
13	16 39 01.10	61.06 20.57	85	200
14	04 32 00.81	61.16 19.64	110	300
14	06 02 00.91	61.17 19.55	95	300
14	06 59 59.00	61.18 19.51	75	300
14	08 00 01.81	61.18 19.40	85	50
24	05 23 00.65	61.26 18.23	75	300
24	06 15 00.68	61.26 18.31	63	100
24	06 40 01.01	61.26 18.38	75	100
24	07 05 00.63	61.25 18.46	63	80
24	13 30 00.96	61.24 18.69	15	100
26	04 50 01.12	61.24 18.68	55	300
26	05 30 00.80	61.24 18.60	72	100
26	05 55 01.78	61.25 18.53	60	80
26	06 22 00.92	61.25 18.46	62	60
26	12 59 00.97	61.24 18.70	40	300
26	13 50 00.95	61.23 18.79	60	200
26	14 27 01.02	61.23 18.86	65	100
26	14 50 01.31	61.22 18.93	70	80
27	05 15 00.13	61.22 18.93	70	60
27	05 40 01.16	61.21 19.00	75	80
27	06 05 01.12	61.21 19.08	75	100
27	06 40 01.09	61.20 19.16	75	200
27	11 35 01.19	61.14 19.82	130	50
27	11 59 01.30	61.14 19.88	120	50
29	05 59	61.20 19.18	80	300
29	06 50 01.56	61.19 19.26	80	300
29	08 27 01.57	61.19 19.33	85	300
29	09 09 01.23	61.18 19.40	85	50

October

October

				T	A					T	A	
1	NUR	iP	09 03 01.0	D	1.1	409.9						
		i	02.0						esPKP	44	09	
		i	12.9						ePKS		15	
		i	20.0						epPKS	46	22	
		e	52						esPKS	47	18	
		ePP	05 24						eSP	52	34	
		e	30						esSP	56	22	
		ePPP	07 11						e	58	21	
		e	11 12						eSS	14	00 28	
		eS	59						esSS	04	10	
		eScS	13 00					SOD	iPKP	13	40 32.0	
		e	15 51						epPKP	42	50	
		eSS	16 24						iSKP	43	01.3	
		eP'P'	31 20					KJN	ePKP	13	40 33	
		eLR	09 23.5						i		36.7 D 0.7 45.1	
SOD	iP	09 02 16.4	D						e		51	
	i	17.6							iSKP	43	10.4	
	e	46							iPKS	44	02.8	
	ePcP	03 00						KEV	iPKP	13	40 29.0	
	ePP	04 36							H:	13	22 28.5	
	eS	10 38									20.0 S, 174.4 E, 553 km (R)	
	eP'P'	31 39									New Hebrides Islands	
KJN	iP	09 02 36.1	D	1.2	317.3			1	NUR	ePKP	20 03 50	
	i	37.6							i		04 10.1 D	
	i	48.0						SOD	ePKP	20 03 44		
	iPcP	03 12.7						KJN	iPKP	20 03 48.6	U 0.9 17.1	
	ePP	04 58							H:	19	44 14.2	
	e	05 16									52.7 S, 140.0 E, 33 km	
	ePPP	06 29									West of Macquarie Islands	
	eP'P'	31 29										
	i	36.8										
KEV	iP	09 02 00.4	D	1.0	201.9			1	NUR	iPKP	22 53 24.4	U 1.1 88.1
	i	01.7							i		29.0	
	e	03 04							e		54 09	
	e	04 00							ePP		55 16	
	ePP	17							ePKS		56 43	
	ePPP	05 35						SOD	iPKP	22 53 37.2		
	eS	10 04						KJN	iPKP	22 53 31.9	U 1.0 40.6	
	e	40							iPKS		56 55.9	
	eScS	11 58							e		57 08	
	eSS	14 05							H:	22	34 25.5	
	e	16 50									60.7 S, 24.9 W, 33 km (R)	
	eLQ	09 18.2									South Sandwich Islands	
	eLR	09 20.2										
	H:	08 52 05.8										
		50.1 N, 178.3 E, 32 km										
		Rat Islands										
1	NUR	ePKP	13 40 37					2	NUR	eP	08 44 51	
	i	44.0	D 0.8 73.5					SOD	iP	08 44 54.6		
	esP	52						KJN	eP	08 44 48	0.6 12.0	
	epPKP	43 03							H:	08	31 54	
	iSKP	22.2									5.9 S, 104.0 E, 33 km (R)	
		cont.									Southern Sumatra	
								2	NUR	iP	09 08 48.3	U 0.7 15.5
								SOD	iP	09 08 30.8	U	
								KJN	iP	09 08 33.4	U 0.7 32.3	

October		T	A	October		T	A
2	NUR eP 12 19 17			SOD iP 14 55 13.0			
	SOD iP 12 18 49.4			i 56 05.1 D			
	KJN eP 12 18 59			ePP 57 15			
	H: 12 07 38.9			KJN iP 14 55 31.7	1.0	33.5	
	31.4 N, 141.5 E, 44 km (R)			i 47.0			
	South of Honshu, Japan			ePcP 56 20			
2	SOD eP 19 42 38			iPP 57 34.2			
	KJN eP 19 42 46			KEV iP 14 55 00.0			
	H: 19 31 29			e 19			
	32.0 N, 142.2 E, 33 km (R)			e 47			
	South of Honshu, Japan			ePP 57 02			
2	NUR eP 20 10 33			ePPP 58 23			
	SOD eP 20 10 21			eS 15 02 32			
	KJN eP 20 10 21			e 05 08			
	KEV eP 20 10 11			eLR 15 12.0			
				H: 14 45 26.8			
3	NUR eSKS 05 36 38			49.5 N, 156.5 E, 33 km (R)			
	ePS 39 12			Kurile Islands			
	eSS 44 48			3 KJN eP 16 29 31			
	H: 05 12 22.5			3 NUR ePKP 16 34 04			
	38.2 S, 48.4 E, 20 km			i 06.8	1.0	40.0	
	Atlantic-Indian Rise			ePP 36 23			
3	NUR eP 10 16 47	0.8	11.5	eSKP 37 29			
	KJN eP 10 16 37	0.6	19.4	e 36			
3	NUR iP 10 57 06.2 U	0.7	55.5	eSKSP 46 13			
	ePcP 35			ePPS 48 16			
	SOD iP 10 56 20.8 U			e 49 08			
	e 27			eSS 53 43			
	ePcP 57 06			e 56 26			
	KJN iP 10 56 41.2 U	0.7	76.6	eSSS 58 32			
	e 49			eLQ 17 09.6			
	iPcP 57 20.0			SOD iPKP 16 34 09.7 D			
	KEV iP 10 56 04.0 D	0.7	41.6	i 21.4			
	ePcP 57			ePKS 37 32			
	H: 10 46 16.7			KJN ePKP 16 34 09	1.0	31.0	
	52.6 N, 170.6 W, 22 km (R)			ePP 36 45			
	Fox Islands			e 37 36			
3	NUR iP 14 55 56.2 D	1.0	84.0	ePKS 46			
	e 56 14			eSKS 40 48			
	i 49.0			KEV ePKP 16 34 12			
	ePP 58 12			ePP 36 44			
	ePPP 15 00 05			eSKP 37 38			
	eS 04 24			eSKSP 46 42			
	eScS 06 06			ePPS 48 50			
	eSS 08 50			e 49 35			
	eSSS 11 57			eSS 54 34			
	eLR 15 15.9			e 56 30			
	cont.			eSSS 59 16			
				H: 16 14 54.9			
				42.9 S, 75.4 W, 28 km (R)			
				Off coast of southern Chile			

October

					T	A
4	NUR	iP	00 13 08.2		0.9	28.6
	SOD	eP	00 12 23			
	KJN	eP	00 12 42		0.7	7.7
	H: 00 02 32.9					
	52.3 N, 173.0 E, 33 km (R)					
	Near Islands					
4	NUR	ePKP	00 31 53			
	SOD	iP	00 27 35.6			
		iPKP	32 06.3			
	KJN	eP	00 27 41			
		ePKP	31 46			
	KEV	eP	00 27 31			
	H: 00 13 25.8					
	6.4 S, 147.4 E, 75 km					
	East New Guinea					
4	NUR	eP	01 36 05			
	SOD	iP	01 35 33.8			
	KJN	iP	01 35 50.4		0.8	11.8
4	NUR	eP	01 37 28			
	SOD	iP	01 37 12.0			
	KJN	iP	01 37 13.5			
		e	38 03			
	KEV	eP	01 37 09			
	Moscow:					
	H: 01 26 04					
	23.7 N, 121.8 E, 65 km					
	Taiwan					
4	NUR	eP	01 56 12			
	SOD	eP	01 55 33			
		e	38			
	KJN	eP	01 55 52			
		e	57			
	H: 01 44 41.8					
	44.2 N, 128.1 W, 33 km (R)					
	Off coast of Oregon					
4	NUR	iPKP	03 31 57.0		1.0	26.0
		e	32 18			
	KJN	iPKP	03 31 46.1 D		1.2	39.8
		e	32 46			
	H: 03 12 34					
	32.7 S, 179.9 E, 170 km					
	Kermadec Islands					
4	NUR	eP	04 24 21		0.9	15.1
		i	25.6			
	SOD	iP	04 23 41.0			
		i	47.5			
	KJN	eP	04 24 01			
		i	08.0		0.9	25.7
	cont.					

October

					T	A
	KEV	eP	04 23 26			
		e	32			
	H: 04 12 49.1					
	44.0 N, 128.3 W, 33 km (R)					
	Off coast of Oregon					
4	NUR	eP	05 46 30			
	SOD	iP	05 45 57.9 U			
		e	46 08			
	KJN	eP	05 46 19			
		i	21.4			
	H: 05 42 13					
	68.8 N, 16.7 W, 33 km (R)					
	Iceland					
4	NUR	eP	05 51 11			
		e	15			
4	NUR	eP	14 46 17			
4	NUR	iP	18 09 39.8			
5	NUR	eP	00 26 31			
		i	32.0 U		0.8	47.5
		e	55			
	SOD	iP	00 25 41.9 U			
	KEV	iP	00 25 23.0 U		0.9	32.8
	H: 00 17 10.5					
	65.4 N, 134.0 W, 8 km					
	Yukon Territory, Canada					
5	SOD	eP	01 06 27			
	H: 00 52 49.9					
	5.8 S, 130.5 E, 86 km					
	Banda Sea					
5	NUR	eP	09 56 24			
		eS	10 06 08			
		eSS	10 50			
	SOD	eP	09 56 46			
	KEV	eP	09 56 55		0.9	18.0
	H: 09 44 30.0					
	9.3 S, 67.2 E, 33 km (R)					
	Mid-Indian Rise					
5	SOD	eP	16 03 02			
	H: 15 51 18					
	5.2 N, 96.0 E, 121 km					
	Northern Sumatra					
6	SOD	eP	08 12 37			
	H: 08 03 03.2					
	29.2 N, 96.1 E, 27 km					
	India-China border					

October						October						
				T	A					T	A	
6	NUR	iP	15 41	59.2 U	0.9	83.5	SOD	iP	03 47	56.7 U		
	SOD	iP	15 42	15.9 U			KJN	iP	03 47	54.9 U	0.8 353.7	
	KJN	iP	15 41	59.3 U	0.9	83.0	KEV	iP	03 47	56.0 U	1.0 201.9	
		ePP	43 25				e		48 08			
	KEV	iP	15 42	25.0 U	0.8	87.4	eS		57 46			
		i		40.0			ePS		58 28			
	H:		15 35	04.1			eSS	04 02	44			
			36.5 N,	70.2 E,			eSSS	06 02				
			Hindu Kush				eLR	04 13.0				
							H:	03 35	59.6			
								12.6 N,	114.5 E,		17 km	
								South China Sea				
6	SOD	eP	18 06	24			7	SOD	eP	04 43	30	
	H:		17 57	02.0				i			39.8	
			59.5 N,	149.0 W,				KJN	eP	04 44	02	
			Kenai Peninsula, Alaska									
6	NUR	iP	18 07	06.7	0.8	15.5	7	NUR	ePKP	07 16	51	
		eS	10 57					i			58.3	
		ePcP	11 05					eSKP		19 55	0.6 13.8	
		e	12 50				SOD	ePKP	07 16	43		
	SOD	eP	18 07	55				iSKP	19 37.6			
		eS	12 54				KJN	ePKP	07 16	42		
	KJN	iP	18 07	22.6 U	0.5	14.0		i		48.8		
		iS	11 36.8					eSKP	19 46			
	KEV	eP	18 08	12				H:	06 58	11.3		
	BCIS:								24.5 S,	179.1 W,		
			H:	18 02	14				South of Fiji Islands			
				43.1 N,	46.4 E							
			Caucasus									
6	NUR	eS	18 45	54			7	KJN	ePKP	09 38	23	
	SOD	iP	18 41	42.7				H:	09 19	21.5		
	KJN	eP	18 42	06					17.5 S,	167.9 E,		
	BCIS:								New Hebrides Islands			
			H:	18 37.5								
				71 1/4 N,	21 W							
			Greenland									
6	NUR	iP	22 48	28.7 D	0.5	22.4	7	NUR	iP	14 17	01.6 D	0.9 21.8
	SOD	iP	22 48	44.1 D				SOD	iP	14 16	15.8 D	
	KJN	iP	22 48	28.0	0.6	14.4		KJN	iP	14 16	37.0 D	0.7 22.6
		ePP	49 55					H:	14 06	09.2		
	KEV	eP	22 48	53					52.2 N,	169.5 W,		
	H:		22 41	29.3					Fox Islands			
				36.3 N,	70.9 E,							
			Hindu Kush									
7	NUR	iP	03 48	04.4 U	1.0	148.0	7	NUR	iPKP	17 24	15.0 D	1.0 30.0
		i		27.2				i			28.0	
		e	50 40					e		25 07		
		eS	58 02					KJN	ePKP	17 24	10	
		ePS	46					H:	17 04	34.4		
		eSS	04 03	22					31.4 S,	177.5 W,		
		eSSS	06 42						Kermadec Islands			
			cont.									
							8	NUR	iP	06 06	22.5 U	0.6 32.5
								e		07 13		
								e		18		
			cont.									

October

				T	A
	SOD	iP	06 06 16.1 U		
		e	07 08		
	KJN	iP	06 06 08.9 U	0.6	58.9
		e	41		
		e	07 10		
	KEV	eP	06 06 19		
		e	07 13		
		e	25		
	H: 05 59 58.6				
	49.9 N, 78.0 E, 0 km (R)				
	Eastern Kazakh SSR				
8	KJN	eP	15 34 02		
	H: 15 21 05.4				
	6.1 S, 103.8 E, 33 km (R)				
	Southwest of Sumatra				
8	KJN	eP	16 13 05		
	H: 16 02 39.6				
	52.0 N, 174.1 W, 43 km				
	Andreanof Islands				
8	NUR	iP	16 43 24.0	0.8	15.8
	SOD	iPcP	16 43 23.5		
	KJN	iP	16 42 59.3 U	0.8	20.8
		iPcP	43 36.3		
	KEV	ePcP	16 43 12		
	H: 16 32 31.8				
	51.4 N, 173.9 W, 43 km				
	Andreanof Islands				
8	NUR	ePKP	22 19 11		
	KJN	ePKP	22 19 09		
	H: 21 59 45.7				
	25.7 S, 176.5 W, 33 km (R)				
	South of Fiji Islands				
9	NUR	ePKP	05 03 50		
	KJN	iPKP	05 03 39.0 U		
	H: 04 44 27.5				
	33.0 S, 180.0 W, 172 km				
	Kermadec Islands				
9	NUR	eP	07 48 42		
	H: 07 37 54.7				
	52.6 N, 170.5 W, 41 km				
	Fox Islands				
9	NUR	eP	13 35 05		
		e	18		
	SOD	eP	13 34 34		
		i	53.0		
	cont.				

October

				T	A
	KJN	iP	13 34 43.8	0.7	9.6
	H: 13 23 44.4				
	34.4 N, 140.9 E, 57 km				
	Honshu, Japan				
10	NUR	iP	00 46 47.0		
	KJN	iP	00 46 22.8		
	H: 00 35 58.7				
	51.9 N, 175.3 W, 42 km				
	Andreanof Islands				
10	NUR	eP	10 32 33		
	KJN	eP	10 32 16		
		i	16.9		
		i	26.9		
	H: 10 21 00.7				
	26.3 N, 128.1 E, 33 km (R)				
	Ryukyu Islands				
10	NUR	ePKP	17 44 40		
		eSS	18 03 14		
	SOD	iPKP	17 44 51.3		
	KJN	iPKP	17 44 47.1 U	1.1	83.7
		e	45 07		
		e	48 02		
		i	09.9		
		iSKP	15.1		
	H: 17 25 44.0				
	59.1 S, 24.8 W, 55 km				
	South Sandwich Islands				
11	NUR	eP	05 05 00		
		i	10.1		
	SOD	eP	05 04 48		
		e	58		
	KJN	iP	05 04 48.9 U	0.7	34.9
		i	59.7		
	KEV	eP	05 04 43		
		e	55		
	H: 04 52 14				
	8.1 N, 126.8 E, 91 km				
	Mindanao, P.I.				
11	SOD	eP	13 31 09		
	KJN	eP	13 31 44		
11	SOD	eP	16 02 43		
11	SOD	iP	20 11 35.2 D		
	H: 20 01 27				
	44.4 N, 149.6 E, 33 km (R)				
	Kurile Islands				



October		T	A			October		T	A
	KEV eP	14 29 41				17	NUR eP	11 28 20	
	H:	14 18 39.8					KJN eP	11 28 45	
		14.4 N, 93.7 E, 33 km (R)					H:	11 23 04.5	
		Andaman Islands						38.1 N, 38.5 E, 33 km (R)	
								Turkey	
16	SOD eP	00 55 51				18	NUR eP	10 28 53	
16	NUR eP	01 53 31					i	29 00.1 U	0.7 20.2
	H:	01 44 06					e	17	
		65.2 N, 164.2 W, 33 km (R)					ePP	30 18	
		Alaska					ePcP	31 21	
16	SOD iP	08 35 39.7					eS	34 40	
	KJN iP	08 36 26.9 D	1.0	27.3		SOD eP	10 28 57		
	i	43.8				i	29 05.0 D		
	H:	08 22 56.1				ePP	30 29		
		3.1 N, 128.5 E, 213 km				KJN iP	10 28 46.2 U	0.8	20.0
		North of Halmahera				i	52.7 D		
16	SOD iP	19 44 07.5 D				e	29 08		
	KJN iP	19 43 59.8 U	0.8	12.3		iPP	30 05.9		
	KEV iP	19 44 11.0 U	0.9	24.6		eS	34 31		
	H:	19 33 25.0				KEV eP	10 29 03	0.8	18.3
		17.5 N, 94.7 E, 33 km (R)				i	09.2 U		
		Burma				ePP	30 45		
						eS	35 10		
16	NUR iP	20 11 53.0 D	1.2	69.7			H:	10 21 47.5	
	i	12 04.0						42.0 N, 77.7 E, 33 km (R)	
	SOD iP	20 11 05.9						Kirgiz-Sinkiang border	
	i	17.3				18	NUR eP	10 43 46	
	KJN eP	20 11 26	1.2	55.0			KJN eP	10 43 22	
	i	36.6					H:	10 33 53	
	ePP	13 28						46.2 N, 142.6 E, 289 km	
	KEV iP	20 10 49.8						Sakhalin Island	
	e	11 03				18	NUR eP	14 37 36	
	eSS	22 08					KJN eP	14 38 12	
	H:	20 01 52.5					i	32.1	
		56.2 N, 164.7 E, 33 km (R)					H:	14 32 45	
		Komandorsky Islands						38.8 N, 27.7 E, 33 km (R)	
16	NUR eP	22 56 49						Turkey	
	eS	23 05 22				18	NUR eP	22 03 39	
	SOD eP	22 56 05					ePP	07 54	
	KJN eP	22 56 23	0.9	17.0			e	11 50	
	KEV eS	23 03 23					eSKS	14 07	
	H:	22 46 34.2					eS	15 28	
		52.1 N, 160.5 E, 84 km					ePS	16 09	
		Kamchatka					ePPS	17 27	
17	NUR ePKP	02 12 13					eSS	21 41	
	H:	01 53 42.7					e	25 30	
		8.0 S, 155.9 E, 93 km					eLQ	22 33	
		Solomon Islands							

cont.

October						October			
				T	A				
						T			A
	SOD	iP	22 03 29.8						
		e	04 04						
	KJN	eP	22 03 31	1.0	13.1				
		e	54						
		ePP	07 41						
		ePKKP	20 22						
	KEV	eP	22 03 29	1.2	36.3	20			
		ePP	07 19						
		e	08 32						
		ePPP	10 06						
		eSKS	14 02						
		eS	56						
		ePS	15 40						
		ePPS	16 48						
		e	19 16						
		eSS	21 22						
		eSSS	25 19						
		eLQ	22 32.0						
		eLR	22 36.5						
		H:	21 50 04.5						
			1.1 S, 127.9 E, 33 km (R)						
			Halmahera						
18	SOD	eP	23 03 19						
	KJN	eP	23 03 39						
		H:	22 50 41.9						
			15.7 N, 95.4 W, 36 km						
			Oaxaca, Mexico						
19	SOD	eP	15 49 01						
19	NUR	iP	20 59 22.0 D	1.0	164.3				
		i	32.0						
		ePPP	21 03 34						
		eS	07 48						
		eSSS	12 38						
		eLR	21 20.0						
	SOD	eP	20 58 36						
		i	37.4 U						
		iPcP	59 29.0						
		e	53						
	KJN	eP	20 58 56						
		i	57.8 U	1.0	70.9				
		e	21 00 23						
	KEV	iP	20 58 21.9 D	0.8	21.2				
		i	34.0						
		H:	20 48 47.4						
			52.3 N, 174.3 E, 48 km (R)						
			Near Islands						
20	NUR	iP	02 57 32.4	1.0	21.0				
	SOD	iP	02 57 19.9						
			cont.						
	KJN	iP	02 57 21.3 U				0.8		27.7
		e	34						
		H:	02 44 52.6						
			10.7 N, 127.3 E, 58 km						
			Philippine Islands						
	KJN	eP	03 53 19			20			
		H:	03 43 38						
			53.0 N, 161.0 E, 121 km						
			Kamchatka						
	NUR	iP	11 19 03.8 D			20	1.2		100.4
		e	31						
	SOD	iP	11 18 18.0 D						
	KJN	iP	11 18 38.9 D	1.0	51.2				
		i	42.7						
	KEV	eP	11 18 02				1.1		30.3
		H:	11 08 11.1						
			51.6 N, 173.8 W, 32 km						
			Andreanof Islands						
	SOD	iP	19 58 17.0			20			
		H:	19 49 23						
			49.5 N, 150.2 E, 433 km						
			Kurile Islands						
	NUR	iP	00 04 57.3			21	1.0		24.0
	NUR	iP	00 07 38.4 D			21	1.0		50.0
		ePP	11 00						
		e	11						
		eSKS	17 41						
		ePS	19 32						
		eSS	24 01						
		eSSS	27 40						
		eLR	00 36						
	SOD	eP	00 07 28						
		ePP	10 51						
	KJN	iP	00 07 37.0				0.9		17.9
		ePP	11 06						
	KEV	eP	00 07 24						
		H:	23 54 29.9						
			12.5 N, 87.4 W, 70 km (R)						
			Nicaragua						
	NUR	eP	02 15 45			21			
	SOD	iP	02 15 20.8 U						
	KJN	iP	02 15 36.9 D				0.7		17.1
		H:	02 04 38.3						
			37.5 N, 91.0 W, 22 km						
			Eastern Missouri						

October							October							
				T	A					T	A			
21	NUR	iP	02 52	51.4 U	0.5	19.8	23	NUR	ePKP	07 12	16			
	SOD	eP	02 53	08				KJN	ePKP	07 12	21			
	KJN	iP	02 52	51.8 U	0.6	11.6		H:	06 53	32.8				
	H: 02 45 49							29.4 S, 71.6 W, 33 km (R)						
	36.8 N, 70.0 E, 107 km							Central Chile						
	Hindu Kush													
21	NUR	iP	16 04	06.2	0.8	18.7	23	NUR	iPKP	08 34	53.0	1.4	67.2	
		i		10.3	0.8	18.7		KJN	ePKP	08 34	45			
	SOD	iP	16 03	59.2					i		51.1			
	KJN	iP	16 03	53.4	0.8	16.9		H: 08 15 02.3						
		i		57.3				54.9 S, 146.1 E, 33 km (R)						
	H: 15 56 32.6							West of Macquarie Island						
	43.8 N, 87.1 E, 33 km (R)						23	NUR	ePKP	08 53	38	1.1	26.8	
	Northern Sinkiang, China							KJN	ePKP	08 53	29			
21	NUR	eP	18 57	13	0.7	11.6			i		45.1			
	SOD	iP	18 56	53.3				H: 08 33 49						
	KJN	iP	18 56	54.4 D	0.8	8.5		55.1 S, 146.0 E, 43 km						
	Moscow:							West of Macquarie Island						
	H: 18 47 57													
	40.5 N, 109.2 E						23	NUR	eP	12 39	20			
	China													
22	KJN	iP	01 00	15.5 D	0.6	16.4	23	NUR	iP	14 41	38.2	0.7	10.8	
		e		25				KJN	iP	14 41	18.3 D	0.6	21.2	
22	NUR	eP	02 14	24				H: 14 30 29.7						
		i		34.6	1.0	28.0		35.5 N, 140.0 E, 80 km						
	SOD	eP	02 13	56				Honshu, Japan						
	KJN	eP	02 14	16			23	NUR	ePKP	15 53	30			
		e		21	0.7	11.6		H: 15 34 47.2						
	H: 02 02 40.1							32.4 S, 71.3 W, 67 km						
	28.9 N, 141.8 E, 112 km							Central Chile						
	Bonin Islands						24	NUR	eP	06 29	47			
22	NUR	eP	16 37	14					eS		31 58			
	H: 16 26 51.0								e		32 52			
	56.5 N, 169.7 W, 27 km								e		33 27			
	Pribilof Islands							SOD	eP	06 31	17			
									eS		34 35			
									e		35 27			
23	NUR	iP	06 11	34.0 U				KJN	eP	06 30	33			
	SOD	iP	06 10	47.3 U					eS		33 26			
	KJN	iP	06 11	09.6 U	0.9	69.7			e		44			
		i		21.1										
		i		12 31.7	1.0	43.6	24	NUR	eP	12 21	01			
	KEV	iP	06 10	30.4 U	0.9	66.0			e		26 22			
	H: 06 00 48.5								e		45			
	53.8 N, 165.5 W, 16 km							SOD	iP	12 22	06.0			
	Fox Islands													

cont.

October				T	A	October				T	A
	KJN	eP	12 21 40	0.8	16.9	24	NUR	iP	20 38 05.0	1.0	21.0
		i	50.2				SOD	iP	20 37 50.1		
	H:	12 16 58.6					KJN	iP	20 37 51.4 D	1.0	27.3
		46.4 N, 7.7 E, 33 km (R)						i	56.1		
		Switzerland					KEV	eP	20 37 46		
24	NUR	iP	14 45 03.0 D	0.8	30.2			e	56		
		eSKS	55 14				H:	20 26 15.3			
		eS	44					20.1 N, 122.2 E, 16 km			
		ePS	56 42					Philippine Islands			
	SOD	iP	14 44 52.2			24	NUR	ePKP	21 28 03		
		e	45 39					eSKP	30 46		
	KJN	iP	14 44 53.1 D	0.7	32.2		KJN	ePKP	21 28 12		
		ipP	45 28.4					i	21.3		
		eS	55 28					eSKP	30 34		
	KEV	eP	14 44 52	1.0	29.4		H:	21 09 44.3			
	H:	14 32 13.7						17.7 S, 178.5 W, 515 km			
		4.1 N, 125.9 E, 175 km						Fiji Islands			
		Talau Islands				25	NUR	iP	00 26 40.0	1.0	39.9
24	NUR	eP	16 46 13					e	52		
	SOD	iP	16 47 15.7				SOD	iP	00 26 21.5 U		
	KJN	eP	16 46 47					i	34.1 D		
	H:	16 41 11.4					KJN	iP	00 26 24.6 U	0.9	31.3
		37.9 N, 20.6 E, 33 km (R)						i	33.5 U		
		Ionian Sea					KEV	iP	00 26 16.0 U	0.8	21.2
24	NUR	eP	17 52 39				H:	00 15 07			
	KJN	eP	17 52 19					24.5 N, 124.9 E, 39 km			
		e	31					Ryukyu Islands			
	H:	17 42 12				25	SOD	eP	13 41 54		
		55.5 N, 161.1 W, 92 km					KJN	eP	13 42 34		
		Alaska Peninsula				25	NUR	iP	14 25 32.3 D	1.1	39.0
24	NUR	eP	18 25 32	0.9	26.4		SOD	iP	14 25 18.5 D		
		i	36.7				KJN	iP	14 25 20.0 D	0.8	46.1
		iPcP	26 09.7				KEV	iP	14 25 15.5 D	0.7	27.7
	SOD	iP	18 24 50.7 U					e	44		
		e	56				H:	14 13 49			
	KJN	iP	18 25 07.4 D	0.7	10.3			17.0 N, 120.9 E, 168 km			
		iPcP	54.8					Luzon, P.I.			
	KEV	eP	18 24 35	0.8	24.0	25	NUR	eP	15 31 39		
	H:	18 15 04.9						i	49.1		
		49.7 N, 156.1 E, 30 km					SOD	eP	15 30 51		
		Kurile Islands					KJN	eP	15 31 14		
24	NUR	eP	18 56 18				H:	15 20 50.1			
	SOD	eP	18 55 40					53.6 N, 164.6 W, 13 km			
	KJN	eP	18 55 58					Unimak Island			
		e	56 45			25	NUR	eP	18 53 46		
	H:	18 45 38.3					SOD	eP	18 53 11		
		45.0 N, 149.3 E, 48 km									
		Kurile Islands									

cont.



October						October					
			T	A				T	A		
28	NUR	eP	04 32 07			KJN	iP	21 10 23.1 D	1.1	51.3	
			H: 04 27 10.6				e	11 25			
			38.4 N, 22.3 E, 15 km				eP'P'	39 21			
			Greece			KEV	eP	21 09 49			
							i	51.0			
							e	10 32			
28	NUR	eP	14 43 48					H: 21 00 00.1			
	KJN	eP	14 44 29					51°26'17"N, 179°10'57"E, 0 km			
			H: 14 39 25					Rat Islands, nuclear explosion			
			41.7 N, 19.2 E, 14 km					"Longshot"			
			Albania								
29	KJN	eP	03 46 52			30	NUR	ePKP 00 14 13			
			H: 03 36 10				KJN	ePKP 00 14 12			
			28.5 N, 127.7 E, 212 km					H: 23 55 07			
			East China Sea					34.0 S, 179.1 E, 225 km			
								Kermadec Islands			
29	NUR	ePKP	04 07 46			30	SOD	iP 08 56 10.0			
	KJN	ePKP	04 07 35					i 20.2			
			H: 03 48 02				KJN	iP 08 56 27.9 D	1.1	29.7	
			33.6 S, 178.4 W, 33 km (R)				KEV	eP 08 55 53			
			Kermadec Islands					H: 08 46 33			
								51.8 N, 159.4 E, 39 km			
								Kamchatka			
29	NUR	iPKP	04 27 10.8	0.8	17.3	31	SOD	iP 09 11 14.0			
		i	23.3				KJN	eP 09 11 44			
	KJN	iPKP	04 26 59.8	1.0	21.8	31	NUR	iP 23 19 34.7 D	0.9	50.4	
		i	27 11.3				SOD	iP 23 19 47.6 D			
			H: 04 07 26.2				KJN	iP 23 19 32.5 D			
			33.4 S, 178.6 W, 33 km (R)					ePP 20 45			
			Kermadec Islands					H: 23 12 27.1			
								38.0 N, 72.5 E, 65 km			
								Tadzhik SSR			
29	NUR	iPKP	04 28 33.3 D	0.8	23.0						
		i	29 22.7								
	KJN	iPKP	04 28 22.3 U	1.2	86.0						
		i	53.5								
			H: 04 08 49								
			33.3 S, 178.7 W, 33 km (R)								
			Kermadec Islands								
29	NUR	ePKP	05 07 05								
			H: 04 47 27								
			30.3 S, 177.6 W, 24 km								
			Kermadec Islands								
29	NUR	eP	06 07 41								
	SOD	eP	06 07 31								
	KJN	eP	06 07 30	0.8	12.3						
29	NUR	iP	21 10 48.3 D	1.1	69.0						
		eP'P'	39 17								
	SOD	iP	21 10 02.7 U								
		e	31								
		iP'P'	39 30.2								
			cont.								

April 4, 1966
Urmas Luosto
Aili Huovila

November

November

			T	A
1	NUR	ePKP	18 21	28
		i		38.7
		iSKP	24	19.8
	SOD	ePKP	18 21	24
		e		39
		iSKP	24	01.2
	KJN	ePKP	18 21	16
		e		28
		i	22	07.1
		iSKP	24	08.9
		ePKS	25	00
	H: 18 03 09.6			
	24.1 S, 178.9 E, 546 km (R)			
	South of Fiji Islands			
2	NUR	ePKP	01 07	44
		iSKP	10	27.3
		e		38
	SOD	ePKP	01 07	30
		iSKP	10	09.6
	KJN	ePKP	01 07	33
		iSKP	10	17.2
		e		22
	KEV	ePKP	01 07	26
		iSKP	10	02.8
	H: 00 49 13.4			
	23.7 S, 179.8 W, 522 km (R)			
	South of Fiji Islands			
2	NUR	eP	03 31	51
		i		55.0
	SOD	iP	03 32	59.0
	KJN	iP	03 32	28.9 U 1.2 117.0
	H: 03 27 07.2			
	39.6 N, 25.2 E, 11 km			
	Aegean Sea			
2	NUR	ePn	12 59	20
		eSn	13 00	45
		i	01	01.0
		iSg		34.0
	SOD	ePn	12 58	28
		iPg		40.7
		eSn	59	14
		eSg		37
	KJN	ePn	12 58	52
		ePg	59	13
		i		19.8
		iSn		57.5
		eSg	13 00	33
	KEV	ePn	12 58	31
		eSn	59	25
		e		52

				T	A
2	NUR	iP	16 00	11.7 D	0.7 9.0
	SOD	iP	16 00	15.8	
		i		23.2	
	KJN	eP	16 00	09	1.0 17.4
		i		17.2	
	KEV	eP	16 00	17	1.0 21.6
	H: 15 47 24				
	4.3 S, 101.2 E, 11 km				
	Southern Sumatra				
2	SOD	eP	16 34	54	
	H: 16 26 55				
	61.5 N, 142.9 E, 33 km (R)				
	Eastern Siberia				
3	SOD	eP	00 38	24	
		e		33	
3	NUR	iP	01 51	51.0	0.9 40.3
		epP		53 59	
		ePP		56 06	
		ePPP		58 24	
		esPP		59 00	
		iSKS	02 01	29.6	
		e		02 06	
		eS		34	
		eSP		04 04	
		esS		06 20	
		esPS		07 44	
		ePKKP		50	
		eSS		09 46	
		esSS		13 10	
		eP'P'		15 41	
		e		16 46	
		e		20 10	
	SOD	iP	01 51	53.6	
		e		52 06	
		ePP		56 03	
		epPP		57 49	
		ePPP		58 37	
		eSKS	02 01	33	
		eSKKS		02 10	
		e		07 14	
		ePKKP		33	
		i		08 23.6	
		eSKKP		10 15	
		eP'P'		16 11	
	KJN	iP	01 51	57.7	1.0 81.8
		epP		54 04	
		esP		55 08	
		ePP		56 23	
		iSKS	02 01	37.3	
		eSKKS		48	
	cont.				

November

November

			T	A				T	A
	iS	02 47.5				e	19 02 05		
	e	07 09				eSSS	03 44		
	ePKKP	43			H:	18 21 05.0			
	e	08 21				22.3 S, 114.1 W, 12 km			
	eSKKP	10 13				Easter Island region			
	eP'P'	15 56			4	SOD eP	08 29 45		
	i	16 13.8				KJN eP	08 29 55	0.6	7.5
KEV	iP	01 51 53.0	1.0	56.8	4	SOD eP	10 28 26		
	epP	54 02				KJN eP	10 28 53		
	ePP	56 07			H:	10 18 35			
	epPP	58 07				51.8 N, 175.0 E, 33 km (R)			
	esPP	59 14				Rat Islands			
	eSKS	02 01 34			4	KJN eP	10 35 17		
	e	02 11			4	SOD eP	10 47 56		
	eS	38			H:	10 38 22			
	eSP	04 10				57.4 N, 151.1 W, 33 km (R)			
	ePS	05 20				Kodiak Island			
	esS	06 28			4	SOD eP	11 18 13		
	e	07 34				KJN eP	11 17 50		
	iPKKP	58.0			H:	11 05 28			
	e	08 24				2.6 S, 102.1 E, 33 km (R)			
	eSS	10 00				Southern Sumatra			
	esSS	13 00			4	SOD eP	14 23 30		
	eSSS	52			4	NUR e	15 52 23		
H:	01 39 02.5					SOD iP	15 52 01.7		
	9.1 S, 71.4 W, 583 km (R)					i	12.1		
	Peru-Brazil border					KJN eP	15 52 02		
3	KJN eP	07 59 09				i	12.1	0.9	13.4
	H:	07 53 13				i	30.4		
	58.3 N, 32.4 W, 33 km (R)				KEV e	15 52 10		0.7	7.7
	North Atlantic Ocean				H:	15 39 44.5			
3	NUR eP	14 16 30				10.3 N, 122.4 E, 76 km			
						Panay, P.I.			
3	SOD eP	16 53 54			4	SOD eP	16 34 15		
	ePP	57 19				KJN eP	16 34 15		
	iPKKP	17 10 26.0			H:	16 22 01.6			
KJN	iP	16 53 53.9	0.9	14.3		10.3 N, 122.4 E, 109 km			
	ePP	57 12				Panay, P.I.			
	iSKS	17 03 51.3			4	NUR ePKP	19 19 51	1.2	34.2
	e	04 19				KJN ePKP	19 19 38		
H:	16 41 06.1				H:	19 00 09.3			
	4.7 S, 126.6 E, 450 km (R)					31.3 S, 177.7 W, 33 km (R)			
	Banda Sea					Kermadec Islands			
3	NUR eSPP	18 54 40							
	eSS	19 00 20							
	eSSS	05 28							
KEV	eSS	18 58 53							
	e	59 16							
		cont.							

November							November						
					T	A					T	A	
9	NUR	eP	04 10 39		1.0	9.8	11	NUR	ePKP ²	03 12 07			
									eSKKS	22 24			
9	NUR	iPKP	10 35 05.3 D	0.8	32.4				ePSKS	25 56			
		i	17.8 U	0.9	54.1				e	30 21			
		i	28.3						eSS	34 20			
		e	36						e	36 06			
	KJN	iPKP	10 34 55.2 D	0.9	19.6				eSSS	40 30			
		i	35 07.2 D	1.0	99.2			SOD	ePKP ²	03 12 04			
		i	18.2					KJN	ePKP	03 11 47			
									e	12 07			
									e	12			
			H: 10 15 21							H: 02 51 25			
			34.0 S, 178.1 W, 50 km (R)							60.7 S, 154.0 E, 33 km (R)			
			South of Kermadec Islands							West of Macquarie Island			
9	NUR	eP	11 48 56	0.8	24.0			11	SOD	iP	14 34 23.7		
		eS	57 30										
		eSS	12 01 38					11	NUR	eSS	17 36 40		
	SOD	eP	11 48 11							eSSS	41 32		
		e	24								H: 16 52 23.4		
	KJN	eP	11 48 30								61.3 S, 154.5 E, 33 km (R)		
		e	58								Balleny Islands		
			H: 11 38 14.8										
			51.8 N, 174.4 E, 33 km (R)										
			Near Islands										
9	NUR	eP	15 39 05				11	NUR	iP	19 01 04.4	1.1	37.3	
	SOD	eP	15 40 13						e	13			
		e	33						eS	04 42			
	KJN	eP	15 39 50					SOD	eP	18 59 43			
			H: 15 35 00.2						eS	19 02 05			
			44.5 N, 10.6 E, 33 km (R)					KJN	iP	19 00 25.5 U	1.0	16.4	
			Northern Italy						eS	03 25			
									e	04 09			
10	NUR	eP	10 10 56					KEV	eP	18 59 16			
		i	14 34.8						eS	19 01 13			
	SOD	eP	10 11 32										
		e	46					11	SOD	eP	21 34 11		
		ePP	13 31										
	KJN	eP	10 11 12					11	NUR	iP	23 09 28.0 D	0.8	21.2
		i	23.0							i	29.7	1.2	111.6
	KEV	eP	10 12 02						KJN	ePKP	23 09 11		
			Moscow:							e	27	0.9	7.1
			H: 10 03 20								H: 22 49 57.8		
			25.6 N, 54.4 E								28.4 S, 176.5 W, 47 km		
			Persian Gulf								Kermadec Islands		
10	KJN	eP	19 01 31										
11	NUR	iP	02 31 49.7	0.8	8.5		12	NUR	eSS	02 49 04			
	SOD	iP	02 31 16.3							H: 02 04 19.5			
		i	53.1							56.0 S, 121.5 W, 33 km (R)			
	KJN	eP	02 31 24							Easter Island Cordillera			
			H: 02 21 24.4										
			51.7 N, 176.2 E, 104 km										
			Rat Islands					12	NUR	eP	03 12 20		
										e	28		

November						November						
				T	A					T	A	
12	SOD	eP	03 43 26			12	NUR	iP	19 02 51.2 U	0.9	50.8	
	KJN	eP	03 43 25				SOD	iP	19 02 08.3 D			
12	NUR	ePKP	05 37 20				KJN	iP	19 02 26.0 U	1.0	40.3	
	H:	05 17 37.1					ePP	04 37				
		28.4 S, 176.5 W, 33 km (R)					KEV	iP	19 01 54.1 U	1.0	51.0	
		Kermadec Islands					H:	18 53 34				
12	NUR	iP	14 43 24.0	0.7	13.9			53.3 N, 153.6 E, 469 km				
	KJN	eP	14 43 22					Sea of Okhotsk				
12	NUR	iP	17 11 55.0	0.6	7.3	13	NUR	ePKP	01 03 20			
12	NUR	eP	17 25 53				KJN	ePKP	01 03 17			
	ePPP	30 34					i	31.1				
	eS	35 20					H:	00 43 41				
SOD	iP	17 25 27.0						31.6 S, 178.5 W, 38 km				
	e	39						Kermadec Islands				
KJN	iP	17 25 36.2 U	1.1	28.4		13	NUR	iP	04 41 26.9 U	1.1	385.9	
	i	40.5					e	39				
KEV	iP	17 25 19.6 D	1.0	29.4			ePP	43 06				
	e	26 10					eS	47 30				
	eS	34 14					e	50 00				
	e	36 10					SOD	iP	04 41 19.3 U			
H:	17 14 27.6						i	46 21.1				
	30.4 N, 139.8 E, 150 km						iS	47 20.0				
	South of Honshu, Japan						e	48 32				
12	NUR	iP	18 04 04.0 D	1.0	70.6		eScS	51 10				
	e	05 22					e	56				
	ePPP	08 46					KJN	iP	04 41 14.2 U	1.0	272.5	
	eS	13 46					KEV	iP	04 41 21.0 U	0.8	148.1	
	e	15 38					i	37.0	1.2	697.5		
	eSS	18 30					e	42 14				
SOD	iP	18 03 36.6 D					e	42				
	iPP	06 06.2					ePP	56				
	e	36					e	43 44				
KJN	iP	18 03 44.5 U	1.3	147.6			ePcS	47 02				
	e	04 52					eS	20				
	ePP	06 19					e	48 36				
	e	32					eSS	50 18				
	e	08 36					eLR	04 52.5				
KEV	iP	18 03 28.0	1.0	68.6		13	SOD	eP	05 37 46			
	i	04 04.5										
	eS	12 33					13	NUR	eP	06 22 32	0.8	13.8
	e	14 26					SOD	iP	06 23 02.8			
	eSS	16 55					KJN	iP	06 22 39.2 U	1.0	17.4	
	e	18 40					e	23 38				
	eSSS	20 28					KEV	eP	06 23 13			
H:	17 52 24.1						H:	06 14 25				
	30.5 N, 140.2 E, 40 km							26.2 N, 65.1 E, 22 km				
	South of Honshu, Japan							West Pakistan				



November

				T	A
	eSSS	46 31			
	eLQ	11 48.1			
	eLR	11 51.1			
SOD	iP	11 30 27.7 U			
	i	35.4			
	ePP	33 06			
KJN	iP	11 30 17.2 U	1.0	207.1	
	i	24.8			
	ePP	32 42			
	eS	39 41			
KEV	iP	11 30 38.0 U	1.1	144.5	
	i	42.4			
	i	31 05.8			
	eS	40 22			
	ePS	51			
	eSS	45 26			
	e	54			
	eSSS	48 24			
	eLQ	11 50.1			
	eLR	11 54.1			
H: 11 18 49.9					
0.3 S, 18.7 W, 24 km (R)					
Central Mid-Atlantic Ridge					
15	SOD	eP	17 35 32		
16	NUR	iP	01 10 51.1 D	0.8	81.0
		ipP	11 43.0		
		ePP	12 19		
		ePcP	13 08		
		esPP	39		
		eS	16 23		
SOD	iP	01 11 07.0 D			
		ipP	57.6		
		iPP	12 40.0		
		iPcP	58.8		
		esPP	13 52		
KJN	iP	01 10 51.6 D	0.9	80.4	
		ipP	11 41.0		
		esP	12 07		
		ePP	27		
		e	14 43		
		e	15 20		
KEV	iP	01 11 16.4 D	1.0	41.2	
		epP	12 06		
		ePP	13 00		
		ePcP	21		
		epPP	37		
		esPP	14 08		
		eS	17 08		
		eSS	20 22		
H: 01 03 55.7					
36.4 N, 71.2 E, 241 km					
Afghanistan-USSR border					

November

				T	A
16	NUR	iP	06 58 47.2	1.3	54.2
		SOD	iP 06 58 35.8		
		KJN	iP 06 58 36.3	1.0	21.8
H: 06 45 57.1					
6.6 N, 126.9 E, 103 km					
Mindanao, P.I.					
16	SOD	eP	08 13 30		
16	NUR	iP	15 33 52.0	1.3	114.1
		i	54.1		
		ePP	35 46		
		eS	41 15		
		eSS	44 54		
		eLR	15 49.5		
SOD	iP	15 34 02.6 D			
		i	05.0		
		i	09.2		
		ePcS	39 20		
		eS	41 42		
KJN	iP	15 34 04.0 D	1.4	132.3	
		i	06.8	1.3	273.4
		ePcP	58		
		i	35 14.0		
		ePPP	37 35		
		ePcS	39 12		
KEV	iP	15 34 06.9 U	1.3	269.7	
		ePcP	35 24		
		ePP	36 10		
		ePPP	37 32		
		eS	41 44		
		eScS	44 00		
		e	47 45		
		eLR	15 49.5		
H: 15 24 42.9					
31.0 N, 41.5 W, 17 km (R)					
North Atlantic Ocean					
16	SOD	iP	15 50 13.0		
H: 15 40 56.3					
30.8 N, 41.2 W, 33 km (R)					
North Atlantic Ridge					
16	NUR	eP	16 08 35		
		SOD	iP 16 08 03.7		
16	NUR	iP	17 17 01.2 U	1.1	76.9
		iPcP	18.0		
		eS	26 18		
		eScS	27 11		
		eSSS	35 12		
		eLR	17 40.5		

cont.

November				November			
		T	A		T	A	
SOD	iP	22 07	39.0				
	i		40.4				
	i	08	05.8				
	ePcP		42				
	i		57.2				
KJN	iP	22 07	58.2				
	ePcP	08	53				
	e	09	54				
	ePcS	12	52				
	eS	15	50				
	ePS	16	08				
KEV	iP	22 07	25.0 D	0.8	80.4		
	i		38.2				
	iPcP	08	36.2	1.0	62.7		
	e		48				
	ePP	09	25				
	eS	14	46				
	eSS	18	48				
	eLR	22	23.5				
	H:	21 58	12.4				
		53.9 N, 160.7 E, 12 km					
		Kamchatka					
18	NUR	eP	22 19 38				
		i	50.1	1.0	44.0		
	SOD	iP	22 18 51.4				
		e	19 05				
	KJN	iP	22 19 13.8 U	0.7	8.2		
		e	26				
	KEV	eP	22 18 33				
		i	42.5				
	H:	22 08	45.7				
		53.1 N, 161.9 W, 8 km					
		South of Alaska					
18	SOD	eP	22 39 43				
	KJN	eP	22 39 59				
	H:	22 29	51.3				
		42.9 N, 137.4 E, 10 km					
		Eastern Sea of Japan					
19	NUR	ePKP	01 34 07				
		e	17				
	H:	01 14	25				
		29.6 S, 178.5 W, 24 km					
		Kermadec Islands					
19	NUR	eP	07 24 59	1.2	65.6		
	SOD	iP	07 24 21.0				
	KJN	iP	07 24 36.7 U	1.0	21.8		
	KEV	eP	07 24 08				
	H:	07 14	13.2				
		45.3 N, 150.9 E, 13 km					
		Kurile Islands					
19	NUR	iPKP	07 27 48.0 D	1.5	126.1		
	KJN	ePKP	07 27 51				
	H:	07 08	10.8				
		29.6 S, 178.6 W, 33 km (R)					
		Kermadec Islands					
19	NUR	iP	15 22 39.5	1.2	41.9		
	SOD	eP	15 21 55				
	KJN	iP	15 22 14.7 U	1.1	22.9		
		i	28.8				
	H:	15 11	44.5				
		50.2 N, 177.7 E, 33 km					
		Rat Islands					
19	NUR	eP	22 42 55				
		e	59				
	SOD	iP	22 42 34.8				
		e	43				
		e	57				
	KJN	eP	22 42 37				
		i	39.2				
		e	43 18				
	KEV	eP	22 42 34				
	H:	22 31	19.8				
		23.6 N, 121.8 E, 10 km					
		Taiwan					
19	NUR	eP	22 55 43				
	SOD	eP	22 55 07				
	KJN	eP	22 55 20				
20	NUR	iP	09 03 37.4 U	0.8	30.4		
		i	50.0 U				
		ePP	05 27				
		eS	09 40				
	SOD	iP	09 03 30.3				
		i	43.0 U				
		ePP	05 03				
	KJN	iP	09 03 24.2 U	0.8	23.1		
		i	37.3 U				
		iPP	04 58.2				
	KEV	iP	09 03 31.0	0.6	14.0		
		ePP	05 00				
		eS	09 32				
	H:	08 56	00.2				
		43.8 N, 87.7 E, 28 km					
		Northern Sinkiang, China					
20	NUR	eP	15 19 25				
		ePP	23 45				
		e	24 36				
		eSKS	29 46				
		ePPS	33 24				

cont.

November

November

		T	A			T	A
	e	48	21				
	e		56				
	i	49	28.6				
	ePP		38				
	e	51	17				
	eSKS	55	54				
	eS	56	47				
	ePKKP	11	01 40				
KEV	iP	10	45 27.2	D	1.2	149.5	
	i		32.8				
	e	46	06				
	e	49	14				
	ePP		36				
	esPP	50	16				
	e	51	06				
	e	54	11				
	eSKS	55	52				
	eS	56	44				
	e	57	10				
	ePS	58	24				
	ePPS	59	15				
	e	11	00 18				
	e		03 07				
	eSS		50				
	H: 10 31 49.7						
	6.1 S, 130.4 E, 93 km						
	Banda Sea						
21	SOD eP	21	52 06				
	H: 21 39 27						
	16.4 N, 98.8 W, 18 km						
	Guerrero, Mexico						
21	SOD iP	22	18 24.4	U			
	KJN iP	22	18 28.8	U	0.8	19.2	
	H: 22 11 58.8						
	50.2 N, 29.1 W, 33 km (R)						
	North Atlantic Ridge						
21	KJN eP	22	48 25		0.8	13.8	
	H: 22 36 26.7						
	11.2 N, 62.1 W, 134 km (R)						
	Windward Islands						
22	NUR eP	00	15 17				
	eS		18 19				
	SOD iP	00	13 44.6				
	i		49.4				
	iS	15	34.0				
	e		39				
	e	16	55				
	cont.						
	KJN eP	00	14 29				
	i		30.7				
	e		46				
	eS	16	54				
	e	17	01				
	e	18	51				
	KEV eP	00	13 15				
	e		14 09				
	eS		45				
	e		49				
	e	15	43				
	e		48				
	H: 00 11 15						
	77.5 N, 16.5 E, 33 km (R)						
	Svalbard region						
22	KJN eP	14	10 51				
	H: 14 00 27.0						
	52.0 N, 176.1 W, 49 km (R)						
	Andreanof Islands						
22	NUR ePKP	19	27 30				
	KJN ePKP	19	27 23				
	H: 19 09 09.4						
	12.0 S, 167.4 E, 326 km						
	Santa Cruz Islands						
22	NUR iP	20	36 19.4		1.2	292.3	
	i		30.5				
	i		39.2				
	e	38	22				
	ePPP	40	30				
	eS	45	08				
	eScS	46	08				
	eSS	49	48				
	eSSS	52	40				
	eLR	20	57				
	SOD iP	20	35 33.7				
	i		35.3				
	i		52.4				
	e(ScP)	40	20				
	KJN iP	20	35 53.8	U	1.0	125.4	
	i		36 13.4				
	i		20.1				
	ePP	38	17				
	eS	44	24				
	KEV eP	20	35 16				
	i		36.5				
	ePP	37	32				
	e	39	10				
	cont.						

November				November			
			T	A		T	A
	eS	43 12			KEV eP	02 27 36	1.0 22.0
	ePPS	40			i	40.2	
	eScS	45 18			e	28 29	
	eSS	46 46			H: 02 17 49.4		
	H: 20 25 30.4				51.4 N, 179.7 W, 48 km		
	51.3 N, 179.8 W, 40 km (R)				Andreanof Islands		
	Andreanof Islands						
22	NUR iP	20 50 40.2	1.0	64.1	23 SOD eP	11 33 08	
	e	46			23 SOD iP	13 08 51.0	
	SOD iP	20 49 55.3			KEV eP	13 08 53	
	KJN iP	20 50 15.8 D	1.0	30.5	H: 13 00 41.5		
	KEV eP	20 49 42			37.1 N, 32.5 W, 33 km (R)		
	H: 20 39 48.0				Azores Islands		
	51.4 N, 179.9 W, 16 km (R)						
	Andreanof Islands						
23	SOD eP	01 04 28			23 SOD eP	14 02 36	
					23 NUR eP	16 44 26	
23	NUR eP	01 30 38			SOD iP	16 44 29.3	
	i	55.0	1.0	36.6	KJN iP	16 44 21.4 U	0.6 34.9
	e	31 20			e	45	
	e	33 14			H: 16 31 10.0		
	eSKS	41 12			8.7 S, 111.0 E, 100 km (R)		
	eS	34			Java		
	ePS	43 07					
	e	46 05			23 SOD iP	17 12 12.7	
	eSSS	51 15			eS	14 06	
	SOD iP	01 30 29.1			KJN eP	17 12 58	
	i	46.8			eS	15 22	
	KJN iP	01 30 30.2	0.8	11.5	KEV eP	17 11 48	
	i	44.1			e(S)	13 12	
	KEV ePPP	01 36 11			e	14 17	
	e	37 26					
	eS	41 12			24 NUR eP	02 43 12	
	ePS	42 14			H: 02 32 30.7		
	e	45 44			45.5 N, 150.8 E, 33 km (R)		
	eSS	47 18			Kurile Islands		
	e	49 07					
	eLQ	01 54.1					
	H: 01 17 31.2				24 SOD iP	08 31 19.3	
	3.0 N, 124.8 E, 45 km				KJN eP	08 31 44	1.1 18.9
	Celebes Sea				H: 08 22 38.7		
23	NUR iP	02 28 37.9	0.8	52.8	63.2 N, 151.0 W, 129 km (R)		
	i	57.6			Central Alaska		
	e	29 32					
	SOD iP	02 27 52.1					
	e	29 42			24 KJN eP	14 47 37	
	KJN eP	02 28 11	0.7	29.5	H: 14 37 10.9		
	e	29 34			51.6 N, 174.2 W, 34 km		
		cont.			Andreanof Islands		

November				November			
			T	A		T	A
24	NUR eP	15 19 11			25	SOD iP	13 09 38.0
	SOD iP	15 19 17.0					
	i	24.3			25	NUR ePKP	16 53 05
	KJN eP	15 19 07				H: 16 33 35	0.8 18.7
	i	15.4				28.4 S, 176.4 W, 49 km	
	H: 15 06 53.8					Kermadec Islands	
	0.2 S, 97.3 E, 29 km				25	NUR iPKP	16 55 44.6
	Southwest of Sumatra					i	56 00.6
						KJN ePKP	16 55 38
24	SOD eP	18 40 53				H: 16 36 13	0.8 21.6
						28.1 S, 176.9 W, 32 km	
24	SOD eP	22 50 53				Kermadec Islands	
	KJN eP	22 50 24			25	NUR ePKP	22 53 18
						KJN iPKP	22 53 11.5
25	NUR eP	02 11 40				H: 22 35 37.2	0.8 13.1
	SOD eP	02 12 44				3.9 S, 150.3 E, 457 km	
	KJN eP	02 12 14	0.8	7.7		New Ireland	
	H: 02 06 29.4				26	NUR eP	00 28 48
	37.6 N, 36.6 E, 40 km					i	29 05.2
	Turkey					SOD iP	00 28 20.4
25	NUR eP	03 30 24	1.0	16.0		i	23.5
						KJN iP	00 28 30.1 D
25	NUR eP	03 45 16	0.9	16.8		KEV eP	00 28 12
	SOD eP	03 44 23				e	31
	KJN eP	03 44 48				H: 00 17 18.2	0.9 23.2
	e	45 12				32.1 N, 140.8 E, 64 km	
	H: 03 35 11.7					South of Honshu, Japan	
	55.2 N, 163.0 E, 33 km (R)				26	NUR eP	01 37 25
	Kamchatka					H: 01 26 32.8	
25	SOD eP	09 11 02				51.8 N, 174.2 W, 27 km	
						Andreanof Islands	
25	NUR ePKP	11 09 29			26	SOD eP	02 52 19
	H: 10 50 38.1						
	17.1 S, 100.4 W, 29 km (R)				26	SOD eP	06 48 48
	Central Pacific Ocean					KJN eP	06 48 58
25	NUR ePKP	12 01 48				H: 06 41 20	
	eSKP	04 51				44.0 N, 88.4 E, 33 km (R)	
	KJN ePKP	12 01 40				Northern Sinkiang, China	
	H: 11 43 01.7				26	NUR iP	07 05 05.5
	16.2 S, 167.9 E, 183 km					SOD eP	07 04 55
	New Hebrides Islands					KJN eP	07 04 52
25	NUR eP	12 38 53				KEV eP	07 04 57
	SOD eP	12 38 08				H: 06 55 23	0.9 25.2
	KJN iP	12 38 28.3	0.7	8.9		30.9 N, 100.1 E, 33 km (R)	
	KEV eP	12 37 52				Szechwan, China	
	H: 12 28 03.3						
	51.8 N, 174.4 W, 44 km						
	Andreanof Islands						

November

						T	A
28	NUR	iP	21 44	32.0 U		1.2	119.7
	SOD	iP	21 44	35.0 U			
		ipP		51.2			
	KJN	iP	21 44	29.4 U	0.9		108.9
		ipP		45.4			
	KEV	iP	21 44	37.9 U	1.2		78.3
		i		47.9			
	H: 21 31 47.3						
	4.9 S, 103.2 E, 87 km						
	Southern Sumatra						
29	NUR	ePKP	05 06	46			
		eSKP		09 25			
	KJN	ePKP	05 06	38			
	H: 04 48 31.7						
	20.6 S, 178.7 W, 605 km						
	Fiji Islands						
29	NUR	iP	09 10	30.6 U	0.7		23.8
	SOD	iP	09 09	53.0 U			
	KJN	iP	09 10	06.5 U	0.7		15.1
	KEV	eP	09 09	42			
	H: 09 00 08.3						
	45.1 N, 146.5 E, 153 km						
	Kurile Islands						
29	KJN	iP	12 24	03.2	0.6		10.3
	H: 12 13 44						
	40.2 N, 140.2 E, 73 km						
	Honshu, Japan						

November

						T	A
29	NUR	eP	14 00	16			
	SOD	eP	14 00	08			
	KJN	iP	14 00	07.7	0.6		21.9
	H: 13 47 17						
	0.0 S, 123.4 E, 180 km						
	Northern Celebes						
30	NUR	eP	11 13	48			
	SOD	eP	11 14	51			
	KJN	eP	11 14	06			
30	SOD	eP	11 21	08			
30	KJN	ePKP	22 49	06			
	H: 22 29 53						
	22.7 S, 176.2 W, 77 km (R)						
	South of Fiji Islands						

April 12, 1966

Urmas Luosto
Aili Huovila

December

December

				T	A					T	A
1	SOD	iP	10 38 19.0			2	SOD	iP	09 21 54.7 D		
	KJN	iP	10 37 57.5	0.8	15.4		KJN	eP	09 21 48		
		e	38 18								
	KEV	iP	10 38 37.0 D	0.9	26.7	2	SOD	eP	19 45 45		
			H: 10 29 58.0								
			24.0 N, 5.1 E, 0 km (R)			3	NUR	eP	03 17 45	1.0	27.3
			Southern Algeria				KJN	iP	03 17 20.7	0.8	17.7
1	KJN	iP	12 49 54.2						H: 03 06 50		
			H: 12 39 11						50.3 N, 176.6 W, 33 km (R)		
			36.4 N, 140.7 E, 129 km						Andreanof Islands		
			Honshu, Japan			3	NUR	ePKP	07 04 27		
1	SOD	iP	14 53 45.0				KJN	ePKP	07 04 21		
2	NUR	eP	02 09 10						H: 06 45 02.5		
		i	18.1						20.4 S, 174.2 W, 33 km (R)		
	SOD	eP	02 07 52						Tonga Islands		
	KJN	iP	02 08 31.5	1.0	54.5	3	SOD	iP	07 18 03.4 U		
		i	44.8				KJN	iP	07 17 55.4		
		eS	10 37				KEV	eP	07 18 08		
	KEV	eP	02 07 26						H: 07 06 12		
		eS	08 38						5.5 N, 95.3 E, 18 km		
			H: 02 05 48						Northern Sumatra		
			73.6 N, 10.1 E, 33 km (R)			3	NUR	iP	15 24 58.9	1.0	42.0
			Norwegian Sea				SOD	iP	15 24 26.3 U		
2	NUR	eP	04 08 40				KJN	iP	15 24 44.9 U	0.8	36.1
		e	09 05				KEV	iP	15 24 15.0	0.8	20.3
2	NUR	eP	04 46 53			3	NUR	iPKP	18 26 25.0	0.7	25.7
	SOD	eP	04 46 40				KJN	ePKP	18 26 16		
	KJN	eP	04 46 46						H: 18 06 47.1		
			H: 04 34 18						30.8 S, 177.9 W, 33 km (R)		
			19.1 N, 146.2 E, 97 km						Kermadec Islands		
			Mariana Islands			3	NUR	iP	21 24 46.1 U	0.9	66.9
2	NUR	iP	06 09 30.3 D	1.1	44.5		i	55.8 U			
	SOD	iP	06 08 45.1 D				i	25 03.1			
			H: 05 58 41.5				ePP	26 09			
			51.3 N, 176.3 E, 17 km				e	46			
			Rat Islands				eS	30 30			
2	NUR	eS	06 55 08				e	31 20			
		e	17				SOD	iP	21 25 04.1		
	SOD	eP	06 52 37				i	14.2 U			
			H: 06 45 55				ePP	26 31			
			37.7 N, 29.4 E, 41 km				i	41.0			
			Turkey				KJN	iP	21 24 46.8	1.0	43.6
2	KJN	eP	08 12 10				i	57.4 U	0.8	199.9	
			H: 08 01 06				e	25 10			
			30.0 N, 131.7 E, 33 km (R)				KEV	eP	21 25 15		
			Kyushu, Japan				i	24.4 U	0.9	117.8	
							ePP	26 53			
							i	27 05.0			
									H: 21 17 33.6		
									36.3 N, 69.5 E, 19 km		
									Hindu Kush		

December

						T	A
4	NUR	iP	02 22	49.6 D	0.8	114.8	
	SOD	iP	02 22	04.6 U			
		i		18.3			
	KJN	iP	02 22	25.8 D	0.6	58.2	
		i		40.1			
		iPcP		59.9			
		eP'P'	51 10				
	KEV	iP	02 21	49.6	0.8	27.0	
		i	22 04	8			
	H: 02 11 49.9						
	51.3 N, 170.6 W, 18 km						
	Fox Islands						
4	SOD	ePKP	03 20	14			
	H: 03 00 46.8						
	36.1 S, 103.1 W, 33 km (R)						
	Southern Pacific Ocean						
4	NUR	eP	16 45	34	1.4	94.6	
		eS		50 04			
	SOD	iP	16 46	34.2			
	KJN	iP	16 46	06.2			
	KEV	eP	16 46	56			
	H: 16 39 58.4						
	34.2 N, 26.2 E, 21 km						
	Crete						
5	SOD	iP	03 57	24.8			
	H: 03 50 14.3						
	34.9 N, 5.5 W, 33 km (R)						
	Morocco						
5	SOD	eP	16 42	10			
		e		20			
	KJN	eP	16 42	09			
		i		17.2			
		i		23.0			
	KEV	e	16 42	13			
	H: 16 30 59.3						
	23.9 N, 121.7 E, 52 km						
	Taiwan						
5	NUR	eP	18 25	24	1.0	430.5	
	SOD	iP	18 24	38.6 U			
		i		52.0			
		iPcP	25	30.3			
	KJN	iP	18 24	58.6 U	0.9	121.4	
		i	25	11.4			
		iPcP		42.4			
	KEV	iP	18 24	23.6 U	1.0	57.3	
		i		31.3			
	cont.						

December

						T	A
		iPcP	25	23.8			
		eSS	35	48			
	H: 18 14 50.2						
	52.6 N, 173.2 E, 36 km						
	Near Islands						
5	SOD	eP	20 06	08			
5	NUR	eP	22 11	35			
	SOD	iP	22 11	37.6			
		i		12 05.8			
	KJN	eP	22 11	30	0.9	8.9	
		i		57.3			
		i		12 10.4			
	KEV	eP	22 11	42			
		e		12 06			
	H: 22 01 27.7						
	23.3 N, 94.5 E, 13 km						
	Burma-India border						
6	NUR	eP	01 33	27	1.0	39.0	
	SOD	iP	01 32	42.6			
	KJN	eP	01 33	02			
		ePcP		39			
	H: 01 22 36.0						
	50.6 N, 177.4 E, 37 km						
	Rat Islands						
6	NUR	iP	08 04	44.1 D	0.8	66.2	
	SOD	iP	08 04	12.1 D			
	KJN	iP	08 04	22.9 D	0.8	99.2	
	KEV	iP	08 04	04.0 U	1.1	69.1	
	H: 07 55 03						
	43.7 N, 134.0 E, 349 km						
	Eastern Russia						
6	NUR	eP	11 48	05			
		ePP		51 44			
		e		58 08			
		eS		54			
		eSS	12 04	44			
		e		06 54			
		eLQ	12	12.1			
		eLR	12	18.0			
	SOD	iP	11 47	42.0			
		e		48			
		ePP		51 16			
	KJN	eP	11 47	54			
		ePP		51 34			
	KEV	eP	11 47	34			
		i		51.8			
	cont.						



December				T	A	December				T	A
13	NUR	eP	22 48 21			14	KJN	eP	20 13 55		
	SOD	eP	22 47 43					H:	20 04 13.5		
	KJN	iP	22 47 59.1 D	0.9	14.3				53.9 N, 160.7 E, 46 km		
			H: 22 37 37.2						Kamchatka		
			44.7 N, 150.0 E, 33 km (R)								
			Kurile Islands			15	NUR	eP	04 53 52		
13	NUR	eP	22 57 06					ipP	54 15.7		
	SOD	iP	22 56 27.8				SOD	iP	04 53 53.4		
	KJN	iP	22 56 42.9 D	0.7	8.2			epP	54 14		
			H: 22 46 20.5				KJN	iP	04 53 47.9	1.0	21.8
			44.6 N, 150.0 E, 33 km (R)					ipP	54 08.9		
			Kurile Islands					e	58 23		
13	NUR	iP	23 04 02.3 D	0.5	15.5		KEV	eP	04 53 58	1.0	29.9
	SOD	iP	23 03 23.9					epP	54 19		
	KJN	iP	23 03 38.4	0.7	11.0			H:	04 43 47		
	KEV	eP	23 03 12						22.2 N, 94.6 E, 106 km		
			H: 22 53 17.1						Burma		
			44.7 N, 149.9 E, 33 km (R)			15	NUR	eP	08 35 21		
			Kurile Islands					iP	08 35 15.7		
14	NUR	iP	00 14 45.2 U	0.6	19.5		KJN	iP	08 35 15.0 U	1.0	27.3
	SOD	iP	00 14 17.7					ipP	47.2		
	KJN	iP	00 14 26.1 U	0.6	15.8			e	53		
			H: 00 04 04.9				KEV	eP	08 35 15		
			33.9 N, 136.7 E, 358 km					H:	08 22 21.9		
			Southern Honshu						0.0 N, 123.7 E, 162 km		
14	SOD	eP	05 00 31						Northern Celebes		
	KJN	eP	05 00 33	0.8	10.0						
14	KJN	eP	14 33 27			15	SOD	eP	09 19 09		
			H: 14 21 05.3				KJN	eP	09 19 08	0.8	7.7
			14.4 N, 89.8 W, 276 km					H:	09 06 20		
			Guatemala						0.2 N, 123.9 E, 216 km		
14	NUR	eP	17 39 45						Northern Celebes		
	SOD	eP	17 39 20			15	NUR	eP	10 33 04		
	KJN	eP	17 39 32					eP	10 32 29		
		i	36.0				KJN	iP	10 32 39.6 D	1.0	17.4
			H: 17 27 01.7					H:	10 22 22.5		
			25.9 N, 109.7 W, 33 km (R)						44.8 N, 150.3 E, 67 km		
			Gulf of California						Kurile Islands		
14	NUR	eP	18 04 24			15	NUR	eP	17 42 59		
	SOD	iP	18 03 36.3					iP	17 42 32.7		
			H: 17 54 57				KJN	iP	17 42 40.9	0.6	10.3
			63.5 N, 149.8 W, 107 km					H:	17 32 16.3		
			Central Alaska						32.2 N, 137.2 E, 440 km		
									South of Honshu, Japan		
						15	SOD	iPKP ₂	19 41 01.6 U		
							KJN	ePKP ₂	19 41 15		

cont.

December

December

				T	A					T	A
	KEV	iPKP ₂	19 40 53.1	1.0	24.3	16	NUR	ePKP	23 24 47		
		H:	19 19 51.0					i	56.5		
			56.8 S, 142.0 W, 33 km (R)					iSKP	27 37.2		
			South Pacific Cordillera					iPKS	28 26.0		
15	NUR	eP	21 02 28				SOD	iPKP	23 24 45.2		
		eS	06 21					iSKP	27 12.8		
	SOD	eP	21 03 18				KJN	iPKP	23 24 49.1	0.6	30.8
	KJN	eP	21 02 45					iSKP	27 24.7		
		eS	06 57					iPKS	28 13.7		
		e	07 09				KEV	iPKP	23 24 41.0		
							H:	23 06 42.4			
	Moscow:							17.5 S, 179.1 W, 573 km (R)			
	H:		20 57 39					Fiji Islands			
			42.6 N, 46.1 E								
			Caucasus								
15	NUR	eP	23 18 28			17	NUR	ePKP	21 38 19	0.8	8.6
		i	39.1	1.8	161.0		KJN	iPKP	21 38 14.9		
		ePP	22 08				H:	21 19 05.3			
		e	25 10					27.6 S, 178.0 W, 159 km			
		eSKS	28 56					Kermadec Islands			
		eS	29 27			17	NUR	eP	22 57 16		
		ePS	30 40				SOD	eP	22 56 17		
		e	31 54				KJN	iP	22 56 48.7 D	0.5	8.8
		e	32 44					i	57 11.8		
		eSS	35 22			18	NUR	iP	08 41 31.0	1.0	60.0
		eLQ	23 42.5				SOD	iP	08 40 53.0		
		eLR	23 46.3				KJN	iP	08 41 07.2 D	1.2	46.4
	SOD	eP	23 18 20					e	38		
		i	32.3				KEV	iP	08 40 41.4 D	0.7	14.5
	KJN	eP	23 18 30	1.6	169.4		H:	08 30 45.8			
		i	31.4					44.7 N, 149.9 E, 33 km (R)			
		ePP	22 12					Kurile Islands			
		i	16.1			18	NUR	eP	09 26 41		
	KEV	iP	23 18 22.0	1.5	96.1		SOD	iP	09 27 44.2		
		e	19 42				KJN	eP	09 27 16		
		ePP	21 53				KEV	eP	09 28 12		
		eSKS	28 48				BCIS:				
		eS	29 06				H:	09 22 25			
		ePS	30 16					44.2 N, 12.0 E			
		e	31 44					Italy			
		eSS	35 08			18	NUR	iP	13 31 09.7	0.5	21.1
		e	20					e(PP)	33 46		
		e	36 14				SOD	iP	13 30 30.4		
		eLQ	23 43.1				KJN	iP	13 30 45.8	0.7	13.0
	H:		23 05 20.7				KEV	eP	13 30 20	1.0	18.7
			7.5 N, 82.2 W, 15 km					ePPP	34 52		
			South of Panama					ePS	38 56		
16	NUR	iP	19 26 57.3 D	0.9	16.4			eSS	42 44		
	SOD	iP	19 26 25.1 D				H:	13 20 23.4			
	KJN	iP	19 26 44.1 D	1.0	28.3			44.3 N, 150.2 E, 36 km			
								Kurile Islands			

December

December

		T		A				T		A	
	KJN	iP	20 57	10.1 U	1.2	232.2		SOD	iPKP	03 15	53.8
	KEV	iP	20 56	28.9 U	1.2	237.6			iSKP	18	19.3
		e		36					iPKS	19	17.6
		e		56			KJN	ePKP	03 15	47	
		ePP		58 07				i		58.7	0.7 59.6
		eS	21 03	36				ePP	18	23	
		eLR	21	11.0				iSKP		28.7	
	H:		20 47	37.5				iPKS	19	24.3	
			60.5 N,	141.0 W,		33 km (R)	KEV	iPKP	03 15	51.6 U	0.8 34.3
			Southeastern Alaska					e	23	50	
24	NUR	iP	04 27	22.3 D	1.0	56.0		eSP	26	52	
	SOD	iP	04 26	38.2				ePS	28	06	
		e		43				esPS	30	53	
	KJN	iP	04 26	56.7 D	0.9	38.4		eSS	34	08	
	KEV	iP	04 26	24.1 D	1.0	28.1		esSS	38	13	
	H:		04 17	00.9				H:	02 57	57.9	
			51.7 N,	159.6 E,		33 km (R)			18.0 S,	179.2 W,	625 km (R)
			Kamchatka						Fiji Islands		
24	NUR	eP	05 06	22			25	KJN	eP	10 22	50
	SOD	iP	05 06	16.1				H:	10 17	58	
	KJN	iP	05 06	09.2	0.7	15.1			43.3 N,	21.1 E,	33 km (R)
	KEV	eP	05 06	20					Yugoslavia		
		e		07 18			25	NUR	eSKP	12 05	13
	H:		04 59	58.3				SOD	e	12 04	42
			49.9 N,	78.0 E,		0 km (R)			eSKP		54
			Eastern Kazakh SSR					KJN	e	12 04	53
25	SOD	eP	00 52	15					eSKP	05	03
	KJN	eP	00 52	12				H:	11 44	03.8	
	H:		00 39	01					23.4 S,	180.0 W,	550 km (R)
			0.4 N,	125.9 E,		80 km (R)			South of Fiji Islands		
			Molucca Passage				25	NUR	eP	12 20	12
25	NUR	eP	01 20	11				SOD	eP	12 21	21
	SOD	eP	01 19	57				KJN	eP	12 20	52
		i		20 03.1				H:	12 15	28	
	KJN	iP	01 19	59.3	0.7	8.9			40.0 N,	24.8 E,	8 km
	H:		01 07	18.3					Aegean Sea		
			6.7 N,	126.1 E,		72 km	25	NUR	eP	14 15	34
			Mindanao, P.I.					SOD	iP	14 15	12.2
25	NUR	iPKP	03 15	55.4				KJN	iP	14 15	17.2 U
		i		16 06.7	0.8	64.8		KEV	iP	14 15	06.8 U
		iSKP		18 41.0				H:	14 04	08.1	0.8 20.0
		iPKS		19 37.0					27.3 N,	128.7 E,	62 km
		e		24 36					Ryukyu Islands		
		esPS		30 48			25	NUR	eP	15 15	39
		e		34 22				SOD	eP	15 16	43
		eSS		35 32				KJN	eP	15 16	20
		esSS		39 34				H:	15 10	29.4	
				cont.					37.3 N,	21.1 E,	5 km
									Southern Greece		

December				December					
			T	A		T	A		
	KJN	iP	07 49 30.4 D	0.7	12.3	29	SOD eP 03 56 54		
		epP	50 12						
	KEV	eP	07 49 19	1.2	50.7	29	SOD eP 04 15 50		
							KJN eP 04 15 33		
			H: 07 37 36.4				H: 04 07 55		
			22.9 N, 142.6 E, 150 km (R)				31.9 N, 69.8 E, 75 km		
			Volcano Islands				West Pakistan		
28	SOD	eP	11 41 11			29	SOD eP 15 51 23		
	KJN	iP	11 40 50.2 D	0.9	14.3		KJN eP 15 51 23		
			H: 11 30 08				H: 15 38 23		
			1.4 S, 29.5 E, 31 km				2.3 N, 128.7 E, 117 km		
			Lake Tanganyika				Halmahera		
28	NUR	eP	12 23 41			29	NUR ePKP 23 59 33		
		eSKS	34 20				KJN iPKP 23 59 26.0	0.8	11.5
	SOD	iP	12 23 34.8				H: 23 41 00.5		
	KJN	iP	12 23 32.0 U	1.0	21.8		10.6 S, 166.0 E, 198 km		
		i	47.7				Santa Cruz Islands		
	KEV	eS	12 34 20			30	SOD eP 00 47 36		
			H: 12 10 31.4						
			3.2 N, 127.0 E, 53 km			30	NUR iP 02 17 13.0	1.1	66.6
			Talau Islands				i 14.4		
28	NUR	iP	20 44 22.2 U	0.9	185.8		ePcP 45		
		i	34.0				eSS 30 24		
		ePP	47 18				eP'P' 45 46		
		e	31				eLQ 02 34.5		
		eS	54 06				eLR 02 37.5		
		e	26				SOD iP 02 16 26.4		
		eSS	59 08				i 28.2		
		eSSS	21 02 48				iPcP 17 16.3		
		eLQ	21 05.5				eP'P' 46 08		
		eLR	21 10.5				KJN eP 02 16 49	1.0	26.2
	SOD	iP	20 43 55.6 U				i 17 16.0		
		e	44 07				iPcP 29.7		
		i	17.0				eP'P' 45 56		
		i	41.9				H: 02 06 31.1		
	KJN	iP	20 44 04.4 U	1.0	147.2		54.1 N, 164.3 W, 28 km		
		i	15.1				Unimak Island		
		ePP	46 51						
		e	47 30						
	KEV	iP	20 43 46.0	1.1	78.1	30	SOD eP 05 05 29		
		iPcP	44 08.3				KJN eP 05 05 23		
		eS	53 04				H: 04 53 48		
		e	54 06				0.9 N, 26.9 W, 33 km (R)		
		eSS	57 52				Central Mid-Atlantic Ridge		
		eSSS	21 01 14			30	SOD eP 05 59 45		
			H: 20 32 24.7			30	SOD eP 07 05 05		
			27.8 N, 141.8 E, 36 km (R)				KJN eP 07 05 04		
			Bonin Islands						
29	SOD	eP	01 13 21						

