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University of Helsinki

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1966

Helsinki

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UNIVERSITY OF HELSINKI

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1966

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Stations:

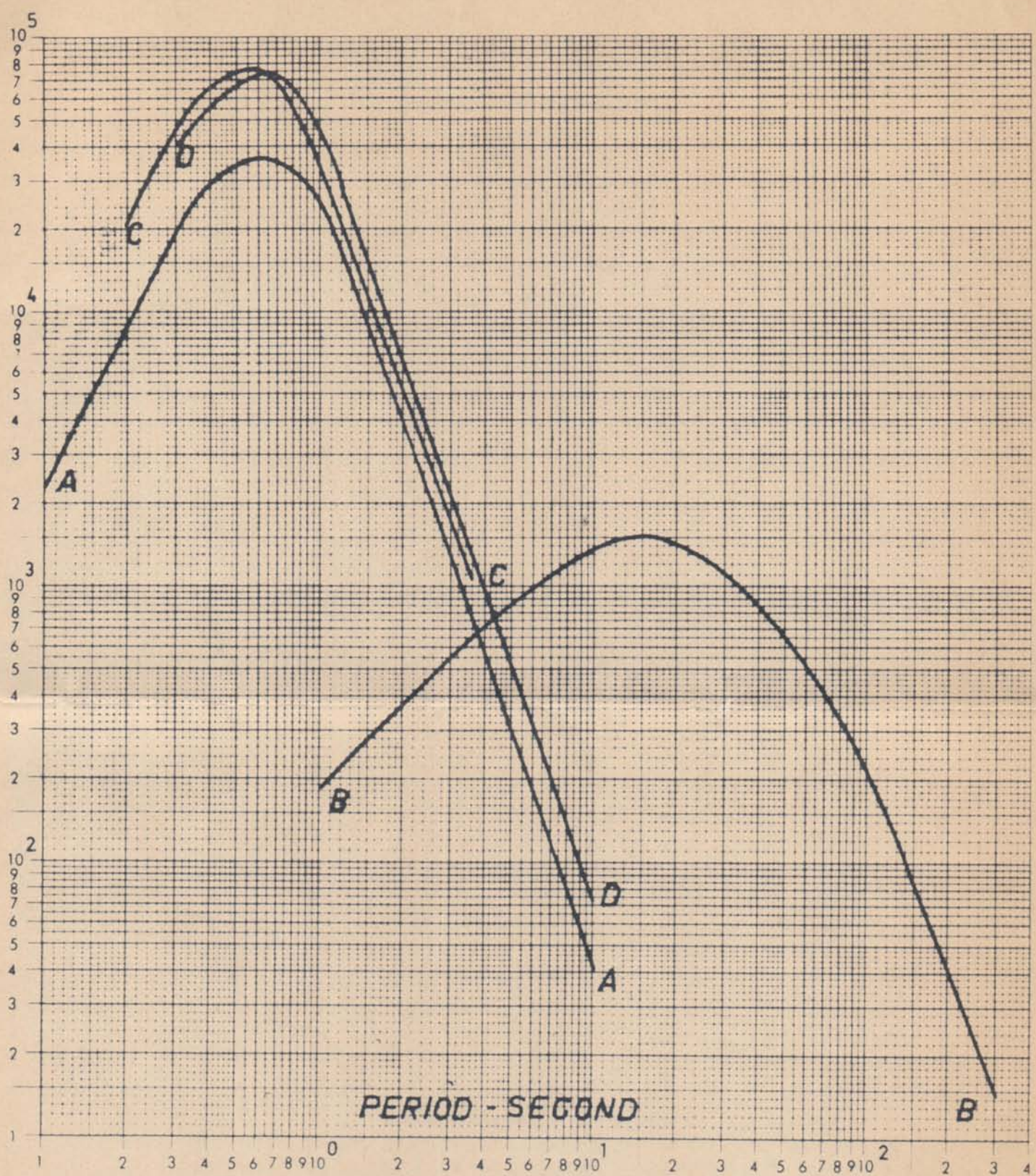
Nurmijärvi	(NUR)	60°30'32"N	24°39'05"E
Kajaani	(KJN)	64.1° N	27.7° E
Sodankylä	(SOD)	67°22'16"N	26°37'45"E
Kevo	(KEV)	69°45'21"N	27°00'45"E

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 sec. Seism.	Galv.	Max. Magn.	
<b>NUR</b>				
Sprengnether Z	15	100	1 500	Critical
Sprengnether N	15	100	1 500	Critical
Sprengnether E	15	100	1 500	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
<b>KJN</b>				
Benioff Portable Z	1.0	0.75	70 000	17:1
Benioff Portable N	1.0	0.75	62 000	17:1
Benioff Portable E	1.0	0.75	62 000	17:1
<b>SOD</b>				
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
<b>KEV</b>				
Sprengnether Z	15	100	1 500	Critical
Sprengnether N	15	100	1 500	Critical
Sprengnether E	15	100	1 500	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



RESPONSE CURVES 1966

- Instruments of the standard stations:**  
 A-A Short-period seismographs, NUR and KEV  
 B-B Long-period seismographs, NUR and KEV
- Other instruments:**  
 C-C Benioff Z, SOD  
 D-D Benioff Z, N and E, KJN

January						January				
				T	A					
				T	A					
1	NUR	eP	10 42 20			SOD	eP	16 40 44		
1	NUR	eP	11 25 31			Moscow:				
	KJN	iP	11 25 21.9	0.8	12.3	H: 16 33 09				
	SOD	eP	11 25 22			37.9 N, 56.4 E				
	H: 11 13 27.2					Iran				
	14.8 N, 119.5 E, 37 km					2	KJN	iP	16 53 26.6	0.8 11.5
	Luzon, P.I.					2	NUR	eP	18 43 00	
1	NUR	eP	19 37 10				e	09		
	KJN	iP	19 37 27.1	1.2	24.1		KJN	eP	18 42 47	
	SOD	eP	19 37 37				e	56		
	H: 19 25 50.9						SOD	e	18 43 05	
	0.6 N, 25.4 W, 33 km (R)						H: 18 35 24			
	Central Mid-Atlantic Ridge						43.9 N, 87.7 E, 33 km (R)			
1	SOD	eP	20 48 32				Northern Sinkiang, China			
2	SOD	eP	00 31 08			2	NUR	eP	23 17 22	
2	SOD	eP	00 46 31				eS	21 16		
2	SOD	eP	02 42 20				KJN	eP	23 17 59	
							SOD	eP	23 18 28	
							i	40.1		
							H: 23 12 18.8			
							37.5 N, 23.4 E, 22 km			
							Southern Greece			
2	NUR	iP	04 15 38.3 D	0.9	147.8	2	SOD	eP	23 26 49	
	KJN	iP	04 15 20.0 D	0.8	72.3	3	NUR	ePKP	13 51 46	
	SOD	iP	04 15 11.8 D				e	54		
	i		16.7				iSKP	54 35.4		
	H: 04 04 45.4						KJN	iPKP	13 51 46.0 D	
	31.3 N, 138.2 E, 394 km						eSKP	54 23		
	South of Honshu, Japan						SOD	ePKP	13 51 43	
2	NUR	eP	05 02 55				iSKP	54 14.6		
	KJN	iP	05 02 31.1				H: 13 33 32.6			
	SOD	eP	05 02 12				20.3 S, 178.5 W, 537 km			
	H: 04 52 17.1						Fiji Islands			
	54.3 N, 164.5 W, 57 km									
	Unimak Island					3	NUR	iPKP	16 03 28.1	0.9 25.2
2	KJN	eP	11 58 15				KJN	iPKP	16 03 20.9	0.8 11.5
	e		30				SOD	ePKP	16 03 16	
	SOD	eP	11 57 58				H: 15 44 44.9			
	i		58 17.0				18.9 S, 169.4 E, 249 km			
	H: 11 51 48						New Hebrides Islands			
	74.6 N, 71.2 W, 33 km (R)					3	NUR	eP	18 29 00	
	Baffin Bay						KJN	eP	18 29 03	
2	NUR	eP	16 39 53				SOD	iP	18 28 56.9	
	KJN	eP	16 40 14				H: 18 16 05.9			
	eS		45 33				4.7 N, 76.0 W, 103 km			
	cont.						Colombia			



January						January						
				T	A					T	A	
7	NUR	eP	14 44 20	0.7	11.3	8	NUR	iP	22 33 20.2 D	0.7	16.4	
	KJN	iP	14 44 08.6 U	0.8	16.9		KJN	iP	22 33 02.3 D	0.8	11.5	
	SOD	iP	14 44 08.2				SOD	eP	22 32 54			
	H: 14 32 24.6						H: 22 22 32.8					
	17.1 N, 119.8 E, 40 km						31.7 N, 137.7 E, 423 km					
	Philippine Islands						South of Honshu, Japan					
7	NUR	iPKP	18 35 21.5	0.9	24.6	8	NUR	iP	22 50 22.5 D	1.0	38.2	
		e	44				KJN	iP	22 50 02.2 D			
	KJN	ePKP	18 35 11				SOD	iP	22 49 52.0			
	H: 18 15 44						KEV	iP	22 49 43.0	1.1	32.7	
	31.4 S, 178.3 W, 33 km (R)						H: 22 39 17.9					
	Kermadec Islands						37.3 N, 138.3 E, 10 km					
							Honshu, Japan					
7	NUR	eP	21 07 23			9	NUR	eP	00 27 28			
8	NUR	eP	01 18 11	0.9	8.2		KJN	eP	00 27 43			
	KJN	iP	01 17 59.6 D	0.8	10.0		SOD	iP	00 28 03.4 U			
	SOD	eP	01 17 58				Moscow:					
	H: 01 06 03.7						H: 00 20 18					
	15.7 N, 123.0 E, 58 km						31.2 N, 59.2 E					
	Philippine Islands						Iran					
8	NUR	ePKP	04 26 18			9	NUR	eP	03 17 17			
		eSKP	29 26				KJN	eP	03 17 16			
	KJN	ePKP	04 26 21				H: 03 04 01					
		eSKP	29 20				5.4 S, 113.6 E, 39 km					
	H: 04 07 41.3						Java Sea					
	25.4 S, 179.1 W, 387 km						9	NUR	eP	06 20 23		
	South of Fiji Islands							KJN	iP	06 20 20.6 D	0.7	15.1
8	NUR	eP	07 06 03				SOD	iP	06 20 27.1			
	KJN	eP	07 05 51			9	NUR	iP	09 23 17.0 U	0.9	18.0	
	H: 06 54 14							e	47			
	19.4 N, 121.8 E, 33 km (R)							SOD	iP	09 23 19.0		
	Philippine Islands							epP	24 04			
8	NUR	eP	08 12 01				KEV	iP	09 22 57.0 D	1.0	41.1	
	KJN	iP	08 11 40.8	0.7	8.9		H: 09 11 30.3					
	H: 08 00 56.7						11.5 N, 62.3 W, 156 km					
	36.6 N, 140.6 E, 92 km						Windward Islands					
	Honshu, Japan						9	NUR	iP	23 42 32.1 D	0.8	31.7
8	NUR	eP	14 53 40					i	36.0			
							KJN	iP	23 42 20.9 D	0.8	15.4	
8	NUR	eP	17 12 06	0.9	16.4	10	NUR	iP	01 31 13.2 U	1.1	73.8	
								epP	40			
								esP	48			
								e	33 52			
								eS	41 06			
								ePS	42 15			
								cont.				



January				T	A	January				T	A		
	eS	11 00 20					15	NUR	eP	12 10 04			
	eSS	04 32							ePcP	45			
	eSSS	07 52							eS	18 14			
	eLR	11 12.0						KJN	eP	12 09 40	1.0	18.5	
KJN	iP	10 51 19.6 U	1.0	151.5					i	49.1			
	i	32.1						SOD	iP	12 09 15.3			
	i	52 17.5							i	17.8			
	e	38						KEV	eS	12 16 11			
	ePP	53 28						H:	11 59 58.6				
SOD	iP	10 50 59.3 U							59.5 N, 144.6 W, 33 km (R)				
	i	51 11.7							Gulf of Alaska				
	ePcP	54						15	NUR	eP	16 18 08		
	i	52 14.9							KJN	eP	16 17 44		
KEV	iP	10 50 44.1 D	1.0	63.6					SOD	eP	16 17 20		
	i	58.2							H:	16 08 02.3			
	e	53 36								59.4 N, 144.8 W, 33 km (R)			
	eS	58 22								Gulf of Alaska			
	e	48											
	eLR	11 07.5						15	NUR	eP	18 12 56	0.7	15.1
H:	10 41 11.0								e	13 06			
	52.9 N, 172.0 E, 14 km								SOD	eP	18 13 59		
	Near Islands								H:	18 07 46.3			
14	SOD	eP 04 00 08								36.7 N, 23.1 E, 35 km			
										Southern Greece			
14	NUR	iP 18 45 02.8 D	0.8	28.2			15	NUR	iPKP	22 16 11.0	0.8	21.2	
	i	40.7							e	28			
	KJN	eP 18 45 33							H:	21 56 30			
	SOD	iP 18 46 03.1								32.4 S, 178.2 W, 33 km (R)			
	H:	18 39 31.5								South of Kermadec Islands			
		34.7 N, 27.0 E, 33 km (R)											
		Crete						15	NUR	eP	23 58 21		
14	SOD	iP 21 46 27.3						16	NUR	e(PPS)00	56 58		
										e(SS) 01	03 22		
14	NUR	eP 22 06 48								e(SSS) 08	30		
	KJN	eP 22 06 23							KEV	e(PPS)00	56 24		
	H:	21 55 49.6								e(SS) 01	02 50		
		51.4 N, 169.0 W, 33 km (R)								e(SSS) 07	00		
		Fox Islands											
15	NUR	eP 04 02 46						16	NUR	eP	07 19 19		
	e	53	0.8	16.9					SOD	iP	07 19 25.2		
										i	30.3		
										H:	07 07 56.9		
											9.2 N, 93.8 E, 33 km (R)		
											Nicobar Islands		
15	NUR	eP 07 24 03						16	NUR	iP	09 22 22.7 U	0.8	200.2
	KJN	eP 07 23 56								i	30.2		
	H:	07 11 10.6								iPcP	56.0		
		6.1 N, 126.2 E, 64 km								eS	30 55		
		Mindanao, P.I.								eSS	35 24		
15	SOD	eP 08 36 42								e	38 10		

cont.



January				January				
	T	A		T	A			
SOD	iP	09 21 36.7		16	NUR	eP	23 53 02	
	ePcP	22 30			KJN	iP	23 52 41.6 D 0.6 13.7	
KEV	eP	09 21 22			H:	23 41 58.3		
	e	52				37.3 N, 140.9 E, 55 km		
H:	09 11 50.0					Honshu, Japan		
	52.9 N, 171.9 E, 25 km			17	NUR	eP	08 44 17	
	Near Islands				KJN	eP	08 44 56	
16	NUR	eP	12 36 22		H:	08 39 41.4		
	i		32.2			40.2 N, 20.6 E, 34 km		
	eS		39 09			Greece-Albania border		
	e		57	17	NUR	ePKP	18 08 10	
	BCIS:				i		21.3 D 1.0 30.0	
	H:	12 32 51			iSKP		11 04.2	
		50.3 N, 4.2 E			KJN	iPKP	18 08 13.5 D	
		Belgium			iSKP		10 51.1	
16	NUR	eP	18 57 43		SOD	ePKP	18 08 09	
	i		47.2		iSKP		10 42.4	
	i		51.0	1.0	H:	17 49 59.3		
	KJN	eP	18 58 14			20.8 S, 178.5 W, 543 km		
	SOD	eP	18 58 45			Fiji Islands		
	KEV	eP	18 59 09		17	NUR	eP	18 21 02
	H:	18 52 00.8			KJN	eP	18 20 47	
		33.2 N, 26.2 E, 33 km (R)			SOD	eP	18 20 40	
		Eastern Mediterranean Sea			H:	18 09 05.9		
16	NUR	iP	19 54 52.4 U 1.0 90.2			21.6 N, 142.9 E, 324 km		
	e		55 08			Mariana Islands		
	KJN	iP	19 54 26.2 1.0 70.9	17	NUR	iP	19 07 06.3 D 0.6 17.5	
	SOD	iP	19 54 06.4		e		30	
	i		13.2		KJN	iP	19 06 40.6 0.6 17.1	
	KEV	iP	19 53 50.3 1.0 43.9		SOD	eP	19 06 21	
	H:	19 44 39.5			H:	18 56 15.6		
		54.9 N, 165.8 E, 15 km				52.0 N, 171.2 W, 46 km		
		Komandorsky Islands				Fox Islands		
16	NUR	eP	20 08 52	17	NUR	eP	20 09 51	
	SOD	eP	20 09 38		KJN	eP	20 10 28	
	H:	20 02 09			SOD	eP	20 10 58	
		30.8 N, 50.2 E, 33 km (R)			e		11 29	
		Iran			H:	20 04 59.4		
16	NUR	eP	20 20 48			38.2 N, 22.1 E, 73 km		
	e		21 12			Greece		
	SOD	eP	20 21 50	18	NUR	eP	01 24 38 0.7 10.3	
	H:	20 15 27.4			KJN	iP	01 24 21.4 U 0.6 17.1	
		35.6 N, 26.0 E, 35 km			SOD	iP	01 24 15.1	
		Crete			H:	01 13 15.8		
16	NUR	eP	20 24 25			29.3 N, 130.4 E, 33 km (R)		
						Ryukyu Islands		

January						January				
				T	A					
						T			A	
18	NUR	ePKP	06 45 45			18	NUR	eP	21 25 25	
		i	50.4				KJN	eP	21 25 56	
		eSKP	48 43				SOD	iP	21 26 26.8	
	KJN	iPKP	06 45 42.7	0.9	14.3		H: 21 20 00.3			
		eSKP	48 31				35.0 N, 23.7 E, 52 km			
	SOD	eSKP	06 48 21				Crete			
	H: 06 27 12.7					18	NUR	eP	21 55 50	
	18.6 S, 177.8 W, 364 km						KJN	eP	21 55 25	
	Fiji Islands						SOD	eP	21 55 02	
							H: 21 46 00.5			
18	NUR	eP	12 21 52				61.4 N, 150.8 W, 61 km			
	KJN	eP	12 21 51				Southern Alaska			
	Moscow:					19	NUR	eP	00 40 45	
	H: 12 14 53						KJN	eP	00 40 39	
	36.6 N, 70.7 E, 203 km					19	NUR	eP	01 57 25	0.7
	Hindu Kush						KJN	eP	01 57 23	7.6
18	NUR	eP	18 46 57				SOD	iP	01 57 31.3	
	KJN	iP	18 46 43.5	0.7	10.3		H: 01 45 26.1			
	SOD	iP	18 46 25.0				3.4 N, 97.3 E, 33 km (R)			
							Northern Sumatra			
18	NUR	iP	20 23 47.2	0.8	18.7	19	NUR	iP	09 16 29.0	0.6
		i	24 31.2				SOD	eP	09 15 55	16.4
		eS	26 19				e 16 13			
		e	21				H: 09 05 47.3			
		e	48				41.6 N, 141.8 E, 69 km			
	KJN	iP	20 24 31.9 D	1.0	28.3		Hokkaido, Japan			
		eS	27 41			19	NUR	ePKP	14 04 15	
		e	47					eSKP	06 55	
	SOD	iP	20 25 11.3 D				KJN	ePKP	14 04 10	
		iS	29 03.3				H: 13 46 02.2			
		i	31 36.6				20.7 S, 178.5 W, 593 km			
	H: 20 20 24						Fiji Islands			
	46.0 N, 26.9 E, 63 km					19	SOD	iP	16 46 34.7	
	Rumania					19	NUR	eP	21 18 47	
18	NUR	iP	20 33 02.0	0.6	20.0			ipP	19 17.2	
	KJN	eP	20 32 46				KJN	eP	21 18 30	
18	KJN	eP	20 33 11					epP	19 07	
	H: 20 19 25.6						SOD	eP	21 18 22	
	2.6 S, 138.8 E, 54 km							epP	53	
	West New Guinea						H: 21 06 33.0			
18	NUR	eP	21 00 25				22.6 N, 143.2 E, 127 km			
		e	57	1.0	16.0		Volcano Islands			
	KJN	e	21 01 11							
		e	38							
	SOD	e	21 01 30							
	Moscow:									
	H: 20 54 10									
	37.8 N, 56.9 E									
	Iran									

January							January								
			T	A					T	A					
20	NUR	eP	00 43 48						SOD	eP	16 42 19				
			H: 00 39 01.6							i	26.2				
			39.2 N, 24.4 E, 25 km						KEV	iP	16 42 07.5 U	0.7	19.4		
			Aegean Sea								H: 16 32 19.9				
20	NUR	iP	01 55 45.8 D	1.2	71.3						52.4 N, 169.6 W, 19 km				
	KJN	iP	01 55 24.4 U	1.4	121.5						Fox Islands				
	SOD	eP	01 55 11						20	NUR	eP	19 40 57			
			H: 01 44 49.5							KJN	eP	19 41 12			
			37.9 N, 138.0 E, 33 km (R)							SOD	eP	19 41 33			
			Honshu, Japan						20	NUR	eP	19 54 39			
20	NUR	ePKP	04 46 47								e	56 13			
	KJN	ePKP	04 46 40						20	NUR	eP	20 02 10			
			H: 04 27 44.9									H: 19 51 26			
			15.1 S, 168.0 E, 28 km									51.8 N, 130.2 W, 33 km (R)			
			New Hebrides Islands									Queen Charlotte Islands			
20	NUR	iP	09 12 48.2 D	0.8	13.0				20	NUR	eP	23 44 32	0.8	14.1	
		i	13 03.5							KJN	eP	23 44 21	1.0	19.6	
	KJN	eP	09 12 35						20	NUR	eP	23 48 29			
20	NUR	eP	10 42 35							KJN	iP	23 48 14.7 U	0.6	11.6	
20	NUR	iP	14 56 37.2 U	0.9	82.0					SOD	iP	23 48 13.3 D			
		i	45.8							KEV	eP	23 48 07			
		e	52									H: 23 37 02.3			
		ePcP	57 12									22.9 N, 121.2 E, 64 km			
	KJN	iP	14 56 11.5	1.0	39.2							Taiwan			
		i	19.4						21	NUR	eP	00 14 34			
	SOD	iP	14 55 52.0 U												
		iPcP	56 45.6						21	NUR	ePKP	01 50 35			
			H: 14 46 06.2								eSKP	53 26			
			53.0 N, 171.8 E, 29 km									H: 01 32 20			
			Near Islands									23.6 S, 179.8 E, 611 km			
20	NUR	ePKP	15 21 08									South of Fiji Islands			
			H: 15 01 53.4						21	NUR	iP	09 54 11.7	0.8	12.4	
			15.3 S, 173.0 W, 33 km (R)							KJN	iP	09 53 48.5 D	0.8	10.8	
			Samoa Islands							SOD	iP	09 53 35.4			
20	NUR	eP	16 15 06									H: 09 43 26.7			
	KJN	eP	16 14 42									43.2 N, 145.6 E, 37 km			
	SOD	iP	16 14 29.6									Hokkaido, Japan			
			H: 16 04 21.7						22	NUR	iP	00 28 49.2	1.0	40.1	
			43.9 N, 147.4 E, 33 km (R)								eS	33 00			
			Kurile Islands							KJN	iP	00 29 19.5 D	1.2	41.3	
20	NUR	iP	16 43 12.2	0.7	26.5					KEV	eS	00 35 24			
		i	23.3									H: 00 23 42.7			
	KJN	iP	16 42 47.5 U	0.6	21.9							37.7 N, 30.0 E, 23 km			
			cont.									Turkey			

January							January												
				T	A					T	A								
22	NUR	iP	03 59 45.2 D	0.8	20.7							e	39 28						
22	NUR	iPKP	04 14 26.6 D	1.1	79.4							ePcS	41 30						
			H: 03 54 52.8									eS	44 10						
			28.9 S, 176.8 W, 33 km (R)									e	22						
			Kermadec Islands									eScS	46 25						
22	NUR	eP	05 06 27									eSS	48 26						
												H: 14 27 07.9							
												56.0 N, 153.7 W, 33 km (R)							
												South of Alaska							
22	NUR	eP	07 49 26	1.0	13.4							22	NUR	ePKP	19 18 49				
	SOD	eP	07 49 09												H: 18 59 48				
	KEV	iP	07 49 03.1 U	0.7	29.7										15.8 S, 167.8 E, 52 km				
			H: 07 36 49.3												New Hebrides Islands				
			17.4 N, 94.1 W, 139 km																
			Chiapas, Mexico																
22	NUR	eP	08 00 32									22	NUR	ePKP	19 55 51				
			H: 07 47 44.8												KJN	ePKP	19 55 46		
			18.8 N, 101.2 W, 115 km														H: 19 36 32.4		
			Guerrero, Mexico														21.0 S, 174.2 W, 33 km (R)		
																	Tonga Islands		
22	NUR	ePKP	11 19 04	0.7	14.8							22	NUR	iP	22 17 20.0	0.9	11.3		
		i	16.2												KJN	iP	22 16 56.2 D	1.0	16.4
	KJN	ePKP	11 19 09	0.8	30.8										SOD	eP	22 16 30		
	SOD	ePKP	11 19 07														H: 22 07 35		
	KEV	iPKP	11 18 58.1 D	0.7	15.5												62.1 N, 141.3 W, 46 km		
			H: 11 01 05.3														Central Alaska		
			17.9 S, 178.5 W, 598 km																
			Fiji Islands																
22	NUR	eP	13 16 28									23	NUR	eS	01 20 50				
	KJN	iP	13 15 52.5 U	1.2	79.1										ePS	22 20			
	SOD	iP	13 15 12.8												KEV	eS	01 20 26		
	KEV	eP	13 14 47														H: 00 57 22		
																	16.3 N, 94.9 W, 32 km		
																	Oaxaca, Mexico		
22	NUR	iP	14 37 38.0 U	1.3	136.9							23	NUR	iP	02 08 21.6	1.2	35.4		
		i	47.6												KJN	iP	02 08 09.4 U	1.2	39.6
		ePP	40 10														H: 01 56 38.0		
		e	42 38														37.0 N, 106.9 W, 10 km (R)		
		eS	46 14														New Mexico		
		eScS	47 32																
		eSS	50 40																
		e	53 52																
	KJN	iP	14 37 14.2 U	1.4	110.7							23	NUR	eP	11 27 10				
		i	23.5												KJN	eP	11 26 43		
		eS	45 30														H: 11 15 54.8		
	SOD	iP	14 36 51.0 U														36.5 N, 138.1 E, 7 km		
		e	37 00														Honshu, Japan		
	KEV	iP	14 36 32.4	1.5	130.8							23	NUR	iPKP	15 23 38.2	0.9	19.3		
		i	38.3												KJN	ePKP	15 23 30		
		e	38 20														H: 15 04 10		
		ePP	42														27.9 S, 176.9 W, 47 km		
			cont.														Kermadec Islands		

January						January					
				T	A					T	A
23	NUR	iP	23 20 27.0	1.0	19.1	SOD	iP	15 41 09.3			
	KJN	iP	23 20 07.1 U	1.0	32.7	KEV	eP	15 41 16			
		e	32				eSS	51 36			
	SOD	iP	23 19 57.0 U			H:	15 32 48.1				
			H: 23 09 17.9				29.9 N, 69.8 E, 4 km				
			35.9 N, 140.5 E, 70 km				West Pakistan				
			Honshu, Japan								
24	NUR	iP	02 22 56.6	1.0	17.2	24	NUR	eP	19 28 53	0.8	13.8
		ePP	24 28					i	29 01.0		
	KJN	eP	02 23 00			25	NUR	eP	00 59 11		
		e	04					eS	01 01 11		
		ePP	24 32					e	58		
	SOD	iP	02 23 19.0				KJN	eP	00 58 50		
		i	23.0					eS	01 00 18		
	KEV	eP	02 23 32					e	01 12		
			H: 02 15 27.7				SOD	eS	00 59 42		
			32.7 N, 67.6 E, 33 km (R)					e	01 00 03		
			Afghanistan			25	NUR	eP	18 18 53		
24	NUR	iP	07 31 05.6	1.2	54.4		KJN	eP	18 18 43		
		ePP	32 51				SOD	iP	18 18 45.2		
		e	34 50						H: 18 05 54.4		
		ePcS	36 48						1.6 N, 117.8 E, 42 km		
		eS	37 18						Borneo		
		eSS	40 34			26	NUR	ePKP	01 19 08		
		eLR	07 44.0					epPKP	35		
	KJN	iP	07 31 09.4	1.2	22.4			eSKP	22 21		
		i	11.4	1.0	26.2		KJN	ePKP	01 19 12		
		i	30.4					iSKP	22 30.1		
		ePP	32 57				SOD	iPKP	01 19 19.7		
		eS	37 31					iSKP	22 40.2		
	SOD	iP	07 31 26.5						H: 01 00 15.2		
	KEV	eP	07 31 36						59.6 S, 26.3 W, 80 km		
		i	51.0						South Sandwich Islands		
		ePP	33 36			26	NUR	iP	01 31 58.1	0.5	7.9
		eS	38 22					eP	01 31 34		
			H: 07 23 07.6						H: 01 22 25		
			29.9 N, 69.7 E, 12 km						47.9 N, 145.4 E, 474 km		
			West Pakistan						Sea of Okhotsk		
24	KJN	iP	11 00 44.8	0.9	15.2	26	NUR	eP	02 02 36		
	SOD	iP	11 00 45.7					eP	02 02 17	0.7	8.2
			H: 10 48 05					eP	02 02 09		
			0.3 N, 123.3 E, 282 km								
			Northern Celebes			26	NUR	eP	10 42 50	1.0	22.0
24	NUR	eP	15 40 47					iP	10 42 32.7 U	0.6	11.0
		eSS	50 28					iP	10 42 25.2		
	KJN	eP	15 40 51						H: 10 31 46		
			cont.						27.9 N, 139.9 E, 502 km		
									Bonin Islands		

January						January					
				T	A					T	A
26	NUR	eP	11 30 01			27	NUR	iP	19 49 52.8 D	1.0	51.3
		e	16					iPcP	50 21.7		
	KJN	iP	11 29 48.3 U	0.7	26.0		KJN	iP	19 49 28.0 D	0.8	16.9
		i	30 03.1					iPcP	50 06.3		
	SOD	iP	11 29 47.0				SOD	iP	19 49 08.3		
		i	59.5				KEV	eP	19 48 52		
	H: 11 18 15.7						H: 19 39 04.5				
	19.9 N, 121.3 E, 38 km						51.1 N, 178.1 E, 41 km				
	Philippine Islands						Rat Islands				
26	NUR	eP	13 35 18	0.9	10.1	28	NUR	iPKP	00 04 27.9	0.7	15.8
	KJN	eP	13 35 52	0.9	13.4		KJN	iPKP	00 04 20.7 D	0.9	13.4
	SOD	eP	13 36 20				H: 23 45 50				
	H: 13 30 27.9						13.8 S, 167.3 E, 206 km				
	39.0 N, 21.4 E, 45 km						New Hebrides Islands				
	Greece										
26	NUR	iPKP	15 49 22.0	0.8	23.0	28	NUR	eP	01 01 26		
	KJN	iPKP	15 49 14.6	0.8	12.3	28	NUR	ePKP	04 54 51		
	H: 15 30 42.7							i	58.5	1.0	65.6
	14.3 S, 167.3 E, 207 km							epPKP	57 17		
	New Hebrides Islands							iSKP	36.2		
								ePKS	58 27		
26	NUR	iP	23 05 17.1	0.6	12.5			e	05 03 44		
	KJN	iP	23 04 59.3 U	0.6	6.9			eSS	14 22		
	SOD	eP	23 04 51					e	16 20		
	H: 22 54 13							eSSS	19 18		
	28.8 N, 139.5 E, 441 km						KJN	iPKP	04 54 51.3		
	Bonin Islands							iSKP	57 21.3		
								ePKS	58 13		
27	NUR	eP	06 31 16				SOD	iPKP	04 54 47.7		
		e	27				KEV	iPKP	04 54 41.8 U	0.8	35.3
	KJN	eP	06 30 52					eSS	05 12 44		
	SOD	iP	06 30 34.7 U				H: 04 36 46.1				
	H: 06 20 57						17.5 S, 176.9 E, 558 km (R)				
	57.7 N, 152.0 W, 33 km (R)						Fiji Islands				
	Kodiak Island					28	KJN	ePKP	06 01 18	1.1	27.0
27	KJN	iP	12 10 54.5 D	0.7	30.1			i	22.1		
		epP	11 15				SOD	ePKP	06 01 17		
		iPcP	31.9				KEV	ePKP	06 01 18		
	SOD	iP	12 10 43.2 D					ePP	02 46		
	H: 12 00 29.1							e	06 54		
	40.2 N, 140.5 E, 65 km							eSKS	08 24		
	Honshu, Japan							eS	10 36		
								ePPS	13 44		
27	NUR	eP	15 04 34					e	15 34		
	KJN	eP	15 04 33					eSS	19 18		
	SOD	eP	15 04 30					eSSS	23 42		
	H: 05 42 16.4						H: 05 42 16.4				
	17.1 S, 168.4 E, 24 km						17.1 S, 168.4 E, 24 km				
	New Hebrides Islands						New Hebrides Islands				



January

T A

KEV eP 07 27 13  
H: 07 25 31  
73.8 N, 8.8 E, 33 km (R)  
Greenland Sea

31 NUR iP 02 45 03.3 D 1.3 52.4  
KJN iP 02 44 53.1 D 1.3 138.9  
SOD iP 02 44 56.3  
KEV iP 02 44 51.4 D 1.2 41.9  
H: 02 35 05.8  
27.9 N, 99.6 E, 33 km (R)  
Yunnan, China

31 NUR eP 03 14 45  
KJN eP 03 14 23  
SOD eP 03 14 11  
e 33  
H: 03 04 04  
41.8 N, 141.5 E, 62 km  
Hokkaido, Japan

31 NUR eP 04 35 47  
KJN eP 04 36 20  
H: 04 30 56  
39.2 N, 21.9 E, 40 km  
Greece

31 KJN eP 05 05 04  
SOD eP 05 04 54  
H: 04 53 50  
31.7 N, 141.6 E, 93 km  
South of Honshu, Japan

31 NUR eP 19 02 57  
KJN eP 19 02 19  
SOD iP 19 01 47.3

January

T A

31 NUR eP 19 31 13  
KJN eP 19 30 48  
e 31 02  
H: 19 20 19  
51.5 N, 170.7 W, 33 km (R)  
Fox Islands

31 NUR iP 19 31 27.2  
H: 19 12 14  
17.1 S, 167.8 E, 23 km  
New Hebrides Islands

31 NUR eP 23 14 10  
H: 23 03 24  
51.5 N, 173.8 E, 33 km (R)  
Near Islands

May 26, 1966

Urmias Luosto  
Aili Huovila



February				T	A	February				T	A
1	NUR	eP	03 28 47			KJN	iP	09 27 48.4 U	0.9	19.6	
		e	29 21				ePP	29 25			
	KJN	eP	03 29 05			SOD	iP	09 28 04.1			
		e	37				i	07.3			
	SOD	eP	03 29 36				ePP	29 38			
		e	30 05				H: 09 20 07.5				
1	NUR	eP	06 04 38	0.8	8.8		33.9 N, 73.0 E, 26 km				
		i	42.2	0.8	30.9		West Pakistan				
		e	05 29			2	SOD	eP	12 22 02		
	KJN	iP	06 04 42.1	0.9	13.4	2	NUR	ePKP	17 29 22		
		i	05 26.6	0.7	21.9			i	25.2	0.8 8.8	
		i	33.8					i	33.3		
	SOD	eP	06 04 59					eSKP	32 55		
		e	05 57					ePKS	33 06		
	KEV	eP	06 05 10	0.9	18.5		KJN	ePKP	17 29 12		
		H: 05 58 21.9						i	25.4 U	0.8 15.4	
		42.1 N, 66.4 E, 33 km (R)						ePKS	32 54		
		Central Kazakh SSR					SOD	ePKP	17 29 19		
1	NUR	eP	07 13 48					H: 17 10 34.5			
	KJN	eP	07 14 06					21.6 S, 176.7 W, 231 km			
	SOD	eP	07 14 34					Fiji Islands			
		H: 07 07 45.8				3	NUR	iP	02 29 57.3		
		35.1 N, 46.0 E, 4 km						ePcP	30 35		
		Iran-Iraq border					KJN	eP	02 29 32	1.1 17.6	
1	NUR	ePKP	08 39 54				SOD	iP	02 29 15.2		
		H: 08 20 48.9						H: 02 19 43			
		15.8 S, 167.2 E, 30 km						49.9 N, 154.8 E, 118 km			
		New Hebrides Islands						Kurile Islands			
1	NUR	eP	15 07 15			3	NUR	eSKP	02 33 14		
	KJN	eP	15 07 34				KJN	ePKP	02 30 17		
		eS	11 20				SOD	ePKP	02 30 11		
		e	12 06					H: 02 11 58			
	SOD	eP	15 08 03					20.9 S, 178.3 W, 489 km			
		Moscow:						Fiji Islands			
		H: 15 02 37				3	KJN	ePKP	05 29 11		
		43.7 N, 43.8 E						i	24.9	0.8 15.4	
		Caucasus						eSKP	32 30		
1	SOD	eP	16 13 03								
2	NUR	ePKP	05 53 27			3	NUR	iP	06 01 10.7 U	1.0 40.0	
	KJN	ePKP	05 53 13					ePP	05 04		
		H: 05 34 01.8						eSS	19 24		
		17.8 S, 173.2 W, 33 km (R)					KJN	iP	06 01 02.3 U	1.1 256.5	
		Tonga Islands						i	06.4		
2	NUR	iP	09 27 48.5 U	0.9	24.1			esP	59		
		ePP	29 22					i	02 32.3		
		cont.						ePP	04 39		
								cont.			



February		T	A	February		T	A
	e		49				
	ePKKP	18	18				
SOD	iP	06 01	02.2 U				
	i		10.8				
	ePP	04	48				
	iPKKP	18	16.7				
KEV	iP	06 00	57.9 U	0.8	36.0		
	i	01	05.7				
	ePP	04	40				
	e	05	26				
	ePS	13	26				
H: 05 48 06.1							
0.1 N, 123.5 E, 131 km							
Northern Celebes							
3	NUR	iP	12 10 28.9 D	1.2	85.8		
	epP		44				
	isP		55.3				
KJN	iP	12 10	17.3 D	1.0	137.3		
	ipP		33.5				
	isP		42.1				
SOD	iP	12 10	16.8 D				
	i		20.0				
	ipP		33.2				
KEV	iP	12 10	10.9 D	1.0	30.0		
H: 11 58 35.3							
16.6 N, 120.0 E, 69 km							
Luzon, P.I.							
3	NUR	iP	13 28 10.2 D	0.7	16.8		
	e		27				
H: 13 23 29							
38.6 N, 14.8 E, 254 km							
Sicily							
3	NUR	iP	17 22 44.7	1.3	47.7		
KJN	iP	17 22	30.4 U	1.3	86.8		
SOD	iP	17 22	28.4				
	e		47				
KEV	eP	17 22	26				
H: 17 11 17.2							
24.0 N, 121.8 E, 24 km							
Taiwan							
3	NUR	iP	17 32 32.4	1.1	30.9		
KJN	iP	17 32	18.3	1.2	60.2		
SOD	eP	17 32	14				
H: 17 21 10.0							
24.4 N, 121.7 E, 55 km							
Taiwan							
	3	NUR	eP	18 09 07			
		KJN	eP	18 08 53	0.9	10.7	
		SOD	eP	18 08 52			
H: 17 57 42.2							
24.1 N, 122.0 E, 38 km							
Taiwan							
	3	KJN	eP	19 45 17	0.9	10.7	
	4	NUR	ePKP	04 21 59			
		KJN	ePKP	04 21 52			
H: 04 02 46							
15.2 S, 173.4 W, 33 km (R)							
Tonga Islands							
	4	NUR	ePKP	05 23 43			
		KJN	ePKP	05 23 41			
H: 05 04 24							
21.4 S, 174.1 W, 26 km							
Tonga Islands							
	4	NUR	iP	08 43 34.8 D			
		i		37.8			
		KJN	eP	08 44 06			
		SOD	iP	08 44 36.4			
		KEV	eP	08 44 56	1.1	30.9	
H: 08 38 01.1							
34.3 N, 24.0 E, 21 km							
Crete							
	4	NUR	iPKP	10 57 57.0			
		epPKP		58 45			
		epPP		11 00 48			
		iSKP		01 00.9			
		e		02 06			
		e		03 26			
		eSKKS		05 52			
		ePS		10 34			
		e		12 44			
		eSS		17 20			
		eSSS		22 34			
	KJN	ePKP	10 57 40				
		i		49.4	0.9	24.1	
		eSKP		11 00 55			
		eSKS		04 35			
		e		07 11			
		ePKKP		32			
	SOD	ePKP	10 57 42				
		ePKKP	11 07 35				

cont.



February

			T	A	
	ePPP	26 20			
	eS	30 56			
	eScS	32 28			
	eSS	34 50			
	eLQ	15 39.0			
	H:	15 12 29.1			
		26.1 N, 103.1 E, 15 km			
		Yunnan, China			
5	KJN eP	16 05 55			
5	NUR eP	16 18 16	0.8	7.2	
	KJN iP	16 18 05.6	0.7	15.1	
	SOD iP	16 18 08.7			
	H:	16 07 56			
		26.0 N, 103.1 E, 33 km (R)			
		Yunnan, China			
5	NUR iP	16 26 17.0 D			
	iPcP	56.6			
	e	27 18			
	e	35			
	e(PP)	28 26			
	e	29 07			
	KJN iP	16 25 51.6 U	1.2	252.8	
	iPcP	26 40.3			
	e(PP)	28 21			
	SOD iP	16 25 34.2			
	iPcP	26 30.2			
	KEV eP	16 25 17	1.0	98.4	
	e	26 06			
	ePcP	18			
	H:	16 16 01			
		50.2 N, 155.1 E, 98 km			
		Kurile Islands			
5	NUR eP	19 05 44	0.8	10.1	
	KJN iP	19 05 33.9 U	0.8	25.4	
	SOD iP	19 05 37.1 U			
	H:	18 55 28			
		26.5 N, 103.0 E, 33 km (R)			
		Szechwan, China			
5	NUR eP	20 01 18			
	KJN eP	20 01 27			
	SOD eP	20 01 44			
5	NUR ePKP	23 33 10			
	H:	23 14 25.3			
		7.1 S, 155.4 E, 70 km			
		Solomon Islands			

February

			T	A	
6	NUR eP	02 29 45			
	KJN iP	02 29 33.7	0.8	11.5	
	SOD iP	02 29 32.5			
	KEV eP	02 29 26			
	H:	02 17 04			
		10.9 N, 126.7 E, 33 km (R)			
		Philippine Islands			
6	NUR iP	04 25 14.0	1.0	28.0	
	KJN iP	04 25 09.4	1.0	38.2	
	SOD iP	04 24 58.8			
	KEV iP	04 24 49.5	1.0	29.4	
	H:	04 12 26.9			
		15.9 N, 93.6 W, 92 km			
		Chiapas, Mexico			
6	NUR iP	09 23 41.8	1.0	34.0	
	KJN iP	09 23 30.9	1.0	71.9	
	SOD iP	09 23 34.6			
	KEV eP	09 23 34	1.0	25.2	
	H:	09 13 19.6			
		26.2 N, 103.1 E, 5 km			
		Yunnan, China			
6	NUR ePKP	10 11 28			
	KJN ePKP	10 11 34			
	SOD ePKP	10 11 35			
	H:	09 52 30.2			
		56.8 S, 25.4 W, 13 km			
		South Sandwich Islands			
6	SOD iP	10 27 33.2			
	H:	10 16 18			
		40.2 N, 127.3 W, 33 km (R)			
		Northern California			
6	SOD iP	12 40 54.3			
6	NUR eP	13 29 28			
	KJN iP	13 30 02.6 U			
	H:	13 24 38.3			
		39.0 N, 21.7 E, 36 km			
		Greece			
6	NUR eP	19 16 20			
	KJN eP	19 15 58			
	SOD eP	19 15 51			
	H:	19 05 17.7			
		36.8 N, 137.8 E, 37 km			
		Honshu, Japan			

February						February							
					T						T		
					A						A		
6	NUR	iP	23 38	02.3 U	1.0	94.0	7	NUR	iP	05 38	12.0	1.0	36.0
		i		05.4					i		15.3		
		epP		21					ePP	39	54		
		ePcP		47					iPcP	40	08.3		
		eScP	42	41					iPPP		17.3		
		eP'P'	24	07	37		KJN	iP	05 38	15.8	1.0	21.8	
	KJN	iP	23 37	37.5 U	1.0	45.8		ePP		40	04		
		ipP		56.6				i			19.4		
		iPcP	38	35.1			SOD	iP	05 38	33.3			
	SOD	iP	23 37	13.0 U				ePP		40	14		
		ipP		33.2			KEV	eP	05 38	45			
	KEV	iP	23 36	54.8	1.0	55.9	H:	05 30	19.2				
	H:	23 28	07.8					30.0 N, 69.6 E, 48 km					
		60.4 N, 152.3 W, 91 km (R)						West Pakistan					
		Southern Alaska											
7	NUR	iP	00 58	43.3 U	0.8	25.9	7	NUR	eP	07 36	10		
									e		37	57	
7	NUR	iP	04 34	08.7	0.9	33.6	7	NUR	eP	08 08	21		
		i		15.3	1.1	147.6							
		ePP	35	50			7	SOD	eP	08 46	31		
		eS	40	30			H:	08 38	11.3				
		eSS	43	43				30.0 N, 69.9 E, 15 km					
	KJN	iP	04 34	13.6 D	1.0	32.7		West Pakistan					
		i		18.9	1.0	152.6	7	SOD	eP	08 58	43		
		ePP	36	01			H:	08 48	35				
	SOD	iP	04 34	31.1 D				51.2 N, 130.0 W, 25 km					
		i		36.6				Queen Charlotte Islands					
		iPP	36	16.3			7	NUR	iP	09 32	30.1		
	KEV	eP	04 34	41					e		39		
		e		46			KJN	eP	09 32	20	0.8	10.0	
		ePP	36	33					i		30.3		
		eS	41	26			7	NUR	eP	12 49	36		
		eSS	45	00									
		eLQ	04	47.0			7	NUR	iP	13 01	17.2 U		
	H:	04 26	13.9						e		27		
		29.8 N, 69.7 E, 33 km (R)					KJN	eP	13 00	51			
		West Pakistan							e		01	06	
7	NUR	e0	05 11	30			SOD	iP	13 00	31.2			
	KJN	eP	05 11	31					e		41		
	SOD	eP	05 11	48			H:	12 50	29				
7	NUR	eP	05 29	43				53.3 N, 162.0 W, 33 km					
		i		45.0				South of Alaska					
		i		51.0			7	NUR	iP	23 14	32.0 U	1.6	114.0
	KJN	iP	05 29	48.2 U	1.0	24.0			i		15	17.0	
		ePP	31	22					ePP	16	18		
	SOD	iP	05 30	03.9					ePPP		58		
		ePP	31	39					eS	20	43		
	KEV	eP	05 30	15	1.1	43.4			e		53		
	H:	05 21	44.6										
		30.0 N, 69.9 E, 10 km											
		West Pakistan											

cont.

February				T	A	February				T	A		
	e		21 20			8	NUR	eP	20 00 03				
	e		52				SOD	eP	19 59 14				
	eSS		23 55				H:	19 50 03					
	eLR	23	26.2					60.4 N, 140.8 W, 13 km					
KJN	iP	23	14 35.4 U	1.0	50.0			Southeastern Alaska					
	i		42.1				8	NUR	eP	20 04 36	0.8 10.1		
	ePP		16 20				8	NUR	iP	20 12 29.2	1.2 34.2		
	ePPP		53					eS	15 56				
	e		18 41				KJN	iP	20 13 10.6 D				
	e		19 28					i	55.1				
	eScS		24 20					eS	17 25				
SOD	iP	23	14 52.7 D				SOD	iP	20 13 38.2				
	i		59.8					e	14 24				
	i		15 12.8				KEV	e	20 14 25				
	e		52				H:	20 08 06.3					
	iPP		16 34.6					41.4 N, 25.1 E, 33 km (R)					
	i		47.6					Greece-Bulgaria border					
	eS		21 34				8	NUR	eP	21 02 53			
KEV	eP	23	15 02	1.3	69.5			KJN	eP	21 02 45			
	ePP		16 50					SOD	eP	21 02 43			
	e		18 00					H:	20 49 52				
	eS		21 48					5.0 N, 126.0 E, 39 km					
	eSS		25 24					Mindanao, P.I.					
	eLQ	23	28.0				9	NUR	eP	01 08 18			
	eLR	23	29.5					eSKS	18 54				
H:	23 06 34.5							ePS	20 24				
	30.2 N, 69.8 E, 10 km							eSS	25 18				
	West Pakistan							KJN	iP	01 08 15.7			
8	NUR	eP	07 20 17					SOD	eP	01 08 04			
	KJN	iP	07 19 56.4 D	0.7	10.3			KEV	eP	01 08 00			
	i		20 06.7					e	08				
H:	07 09 04							eSKS	18 36				
	36.4 N, 141.4 E, 41 km							H:	00 55 19.8				
	Honshu, Japan								14.3 N, 93.0 W, 53 km				
									Chiapas, Mexico				
8	NUR	ePKP	10 20 21					9	NUR	ePKP	04 59 22		
	i		32.5						ePP	05 01 22			
	eSKP	23	17						e	05 16			
	KJN	ePKP	10 20 24						e	40			
	eSKP	23	05						eSKS	06 20			
H:	10 02 09.0								eSKKS	07 58			
	21.2 S, 178.5 W, 525 km								eS	08 52			
	Fiji Islands								ePS	10 44			
									eSS	17 22			
8	NUR	eP	13 21 33					KJN	iPKP	04 59 29.9	1.0 27.3		
	e		50						e	36			
	e		22 07						e	05 00 16			
	KJN	eP	13 22 02						eSKP	02 55			
	BCIS:												
H:	13 16 26												
	36.6 N, 28.1 E, 33 km												
	Mediterranean Sea												

cont.

## February

T A

SOD iPKP 04 59 33.2  
i 36.0  
KEV ePKP 04 59 38  
e 52  
e 05 00 04  
e 01 14  
eSKP 03 06  
ePKS 26  
ePPP 04 04  
eSKKS 08 07  
ePS 12 20  
ePPS 13 48  
eSS 19 16  
eSSS 24 06

H: 04 40 28.4  
56.7 S, 25.7 W, 27 km  
South Sandwich Islands

9 NUR iP 07 32 27.0 D 1.0 70.0  
KJN iP 07 32 21.4 U 0.9 57.2  
SOD iP 07 32 23.9 D  
e 41  
KEV iP 07 32 24.5 D 1.1 66.3

Moscow:  
H: 07 18 52  
8.7 S, 116.3 E  
Indonesia

9 NUR eP 08 26 03  
e 18  
KJN eP 08 26 02  
i 20.0 1.2 25.8  
SOD iP 08 26 11.0  
i 29.0

H: 08 14 05  
2.0 N, 94.5 E, 33 km (R)  
Northern Sumatra

9 NUR eP 08 30 14 0.9 13.4  
ePP 31 55  
eSS 39 40  
KJN eP 08 30 14  
ePP 32 07  
SOD iP 08 30 34.6  
ePP 32 19

H: 08 22 17.9  
29.8 N, 69.8 E, 29 km  
West Pakistan

9 NUR ePKP 11 05 50  
KJN iPKP 11 05 56.4 U 1.1 18.9  
i 06 10.7  
SOD eP 11 06 02

H: 10 46 56.3  
56.6 S, 25.3 W, 33 km (R)  
South Sandwich Islands

## February

T A

9 NUR ePKP 14 17 11  
KJN iPKP 14 17 17.1 1.0 13.1  
i 29.6  
SOD iPKP 14 17 13.3  
H: 13 57 48.7  
35.3 S, 106.0 W, 33 km (R)  
Easter Island Cordillera

9 NUR iP 14 54 41.1 U 0.7 19.4  
KJN iP 14 54 21.3 U 0.7 21.9  
SOD iP 14 54 12.2 U  
Moscow:  
H: 14 44 28  
37.6 N, 135.0 E, 398 km  
Sea of Japan

9 NUR ePKP 20 15 45  
KJN ePKP 20 15 53  
i 16 03.3  
SOD ePKP 20 15 58  
H: 19 56 51.9  
56.6 S, 25.5 W, 33 km (R)  
South Sandwich Islands

9 NUR eP 20 53 14  
H: 20 42 30  
44.5 N, 149.0 E, 33 km (R)  
Kurile Islands

9 NUR iP 23 44 32.5 0.8 7.2  
KJN iP 23 44 12.5 0.9 13.4  
SOD iP 23 44 03.6  
H: 23 33 00.6  
32.6 N, 141.6 E, 50 km  
South of Honshu, Japan

9 NUR eP 23 56 10  
eS 57 40  
e 58 41  
KJN eS 23 58 37  
BCIS:  
H: 23 54.2  
58 1/2 N, 8 3/4 E  
Norway

10 NUR iPKP 01 43 51.0 1.7 56.2  
KJN ePKP 01 43 30  
i 52.4  
H: 01 24 15  
29.9 S, 178.5 W, 33 km (R)  
Kermadec Islands

10 NUR ePKP 02 19 03  
H: 01 59 26.4  
30.0 S, 178.3 W, 24 km  
Kermadec Islands

February						February															
						T	A							T	A						
10	NUR	iP	05 40	53.6		1.1	28.6														
		e	41 42							e	36 05										
		eS	50 32							ePP	21										
		eSS	55 06							e	37 17										
	KJN	iP	05 40	36.6 D		1.4	91.8			eS	43 26										
		i	52.4							e	40										
	SOD	iP	05 40	27.2 D						KEV	iP	14 33 19.6	1.0	65.1							
		e	42							i	21.7										
	KEV	iP	05 40	19.0		1.1	45.9			i	28.6										
		e	41 04							e	34 08										
		ePP	42 46							e	42										
		eS	49 18							i	35 09.0										
		eScS	50 15							e	36 06										
	H: 05 29 13.3									ePP	38										
	31.1 N, 141.6 E, 33 km (R)									ePPP	38 22										
	South of Honshu, Japan									e	39 48										
										eS	43 17										
										eScS	41										
										ePPS	44 38										
10	NUR	eP	06 15 35							e	45 00										
	KJN	eP	06 15 17							e	47 42										
	SOD	eP	06 15 07							eSS	48 51										
10	NUR	iP	12 49	18.5		0.8	30.2			eLQ	14 54.2										
	KJN	iP	12 48	54.3 U		0.9	17.9			H: 14 21 10.9											
	SOD	iP	12 48	31.2 U						20.8 N, 146.3 E, 43 km											
	KEV	iP	12 48	13.7		0.8	25.7			Mariana Islands											
	H: 12 38 49.1																				
	56.6 N, 153.3 W, 12 km																				
	Kodiak Island																				
										10	NUR	eP	14 43 54								
10	NUR	eP	13 26 34							10	NUR	eP	14 53 59								
	KJN	eP	13 27 10								KJN	eP	14 53 38								
	SOD	eP	13 27 36								SOD	eP	14 53 37								
	H: 13 21 46										H: 14 41 16										
	39.1 N, 21.8 E, 33 km (R)										20.7 N, 146.9 E, 33 km (R)										
	Greece										Mariana Islands										
10	NUR	iP	14 33	48.8 U		1.4	180.4			10	KJN	eP	20 13 42								
		i	34	05.8							SOD	eP	20 14 04								
		ePP	37	16																	
		i	32.0							10	NUR	iP	20 23 50.9 U	0.9	90.7						
		ePPP	39	18								iPcP	24	25.0							
		e	43	46								epP	34								
		eS	44	18								ePP	26	08							
		eScS	37								KJN	iP	20 23 26.5	1.0	111.2						
		ePS	45	18								i	27.6								
		eSS	49	50								iPcP	24	11.0							
		eLQ	14	57.0							SOD	iP	20 23 12.2 U								
	KJN	iP	14 33	33.2		1.0	165.7					epP	55								
		i	34	31.3							KEV	iP	20 22 59.4 D								
		iPP	36	59.3							H: 20 13 33.0										
		eS	44	00							47.2 N, 150.8 E, 162 km (R)										
	SOD	iP	14 33	25.2 U							Kurile Islands										
		i	35.2																		
		i	34	53.1																	
	cont.										11	NUR	eP	01 52 29							



February						February					
				T	A						
				T	A						
11	NUR	eP	05 45 15			KEV	eP	16 41 36			
	KJN	eP	05 45 53			H:	16 34 11.3				
11	NUR	eP	06 54 24			36.6 N, 71.5 E, 188 km Afghanistan-USSR border					
	KJN	iP	06 55 02.3			12	NUR	eP	23 39 35		
	SOD	eP	06 55 31			12	NUR	eP	23 43 51		
	BCIS:						KJN	eP	23 43 35		
	H: 06 49 43					13	NUR	iP	05 04 21.9 U	0.6	162.5
	39 1/2 N, 21 1/4 E						e	05 12			
	Greece						e	08 55			
12	NUR	iPKP	03 14 54.6	1.0	12.0		eS	09 27			
	H: 02 55 16						KJN	iP	05 04 08.9 U		
	31.0 S, 177.4 W, 33 km (R)						e	37			
	Kermadec Islands						SOD	iP	05 04 15.9 U		
12	NUR	eP	08 11 53				i	05 11.2			
	KJN	eP	08 11 51				KEV	iP	05 04 19.3 U	0.8	122.4
	SOD	eP	08 12 09				i	50.2			
	H: 08 04 58						i	05 08.2			
	39.1 N, 71.6 E, 70 km						e	10 36			
	Tadzhik SSR						H: 04 57 57.7				
12	NUR	ePKP	11 58 16				49.8 N, 78.1 E, 0 km (R)				
	e		25				Eastern Kazakh SSR				
	e		32			13	NUR	eP	06 18 52	1.0	16.0
	ePP		12 00 53				KJN	iP	06 18 58.8 D	1.0	21.8
	KJN	ePKP	11 58 08				H: 06 07 24.1				
	e		16				14.1 N, 61.4 W, 192 km				
	e		25				Windward Islands				
	ePKS		12 01 41			13	NUR	eP	06 50 01		
	H: 11 39 25.5						ePP		54 17		
	18.3 S, 174.8 W, 190 km						iPKKP		07 05 48.6		
	Tonga Islands						KJN	iP	06 49 52.1 U		
12	KJN	eP	13 38 02				i		50 09.8		
12	NUR	eP	13 41 08				ePP		54 10		
	i		12.5	0.7	14.2		iPKKP		07 05 54.6		
	eS		45 08				SOD	iP	06 49 51.2		
	KJN	iP	13 41 47.8 D				iPKKP		07 05 55.3		
	SOD	iP	13 42 15.6				H: 06 35 55.7				
	KEV	eP	13 42 36				6.6 S, 132.6 E, 12 km				
	H: 13 36 20						Tanimbar Islands				
	38.9 N, 21.4 E, 33 km (R)					13	NUR	eP	10 51 54		
	Greece						i		52 03.3	0.9	33.6
12	NUR	iP	16 41 12.4 D	0.6	28.8		KJN	iP	10 51 26.8	1.0	26.2
	epP		50				SOD	iP	10 50 51.8		
	esP		42 10				i		51 07.2		
	ePP		39				H: 10 48 21				
	KJN	iP	16 41 11.8 D	0.7	17.1		71.9 N, 0.6 W, 33 km (R)				
	SOD	iP	16 41 27.6 D				Jan Mayen Island				
	cont.										

February				T	A	February				T	A
13	NUR	iP	10 54 59.8			14	NUR	eP	05 49 04		
		i	55 01.3 D	1.1	161.8			H:	05 41 06.5		
		eS	11 03 24						29.3 N, 69.5 E, 44 km		
		eScS	04 46						West Pakistan		
		eSS	07 18								
		e	10 14								
	KJN	iP	10 54 48.5			14	NUR	eP	08 49 52		
		i	55 57.3								
		ePP	57 01								
	SOD	iP	10 54 51.2			14	NUR	eP	18 03 16	1.0	20.0
		i	54.0					i	17.7	1.0	110.0
		i	55 02.3 D					eS	07 41		
	KEV	iP	10 54 53.7 D	0.9	100.8		KJN	iP	18 03 47.5 U	1.0	18.5
		eS	11 03 09					eS	08 39		
		eScS	04 39				SOD	iP	18 04 17.1 U		
		eSS	07 05				KEV	iP	18 04 38.0		
		e	10 00					i	05 34.8		
		eLQ	11 13.1					H:	17 57 50.0		
		H:	10 44 41.0						35.0 N, 27.2 E, 46 km		
			26.1 N, 103.2 E, 33 km (R)						Eastern Mediterranean Sea		
			Yunnan, China								
13	NUR	iP	13 27 47.6 D	0.9	21.8	14	NUR	eP	20 21 45		
	KJN	eP	13 27 23				KJN	eP	20 22 22		
	SOD	eP	13 27 00				SOD	eP	20 22 52		
		H:	13 17 01					H:	20 17 01		
			53.8 N, 163.3 W, 10 km						39.0 N, 21.9 E, 73 km		
			Unimak Island						Greece		
13	NUR	eP	14 52 09	1.1	19.0	14	SOD	eP	23 12 38		
		Moscow:									
		H:	14 39 41			15	NUR	eP	01 21 00		
			13.6 N, 126.1 E				KJN	eP	01 20 45		
			Philippine Islands								
13	NUR	iP	15 18 21.7 D	1.0	20.0	15	NUR	iP	01 39 44.0	1.0	24.6
	KJN	eP	15 18 09					i	51.3	0.9	24.1
		H:	15 05 52.9				KJN	iP	01 39 27.0 U	0.7	17.1
			12.2 N, 125.2 E, 57 km					i	33.8		
			Samar, P.I.				SOD	iP	01 39 22.2 D		
								i	29.6		
13	NUR	eP	19 17 42				KEV	eP	01 39 15		
		e	44					H:	01 28 17		
		e	52						27.9 N, 128.9 E, 33 km (R)		
		ePP	19 21						Ryukyu Islands		
		eSS	27 21								
	KJN	eP	19 17 47			15	NUR	eP	01 48 28		
	SOD	eP	19 18 03					e	43		
		i	07.5				KJN	eP	01 48 15		
		ePP	19 49					i	17.4		
	KEV	eP	19 18 20				SOD	eP	01 48 16		
		eSS	28 50					H:	01 35 49		
		H:	19 09 47.4						9.3 N, 126.0 E, 91 km		
			29.8 N, 69.7 E, 33 km (R)						Mindanao, P.I.		
			West Pakistan			15	KJN	eP	02 07 06	0.9	11.6

February				February			
	T	A		T	A		
15	NUR	eP	03 02 36			iSKP	40 54.0
	KJN	eP	03 02 10			ePKS	41 08
	SOD	eP	03 01 52			eSKS	44 38
	H:		02 51 54			eSKKS	46 30
			51.8 N, 177.8 E, 55 km			ePKKP	35
			Rat Islands			eSKSP	49 42
15	NUR	eP	09 00 32			eSPP	51 20
	KJN	eP	09 00 24			e	52 28
	SOD	eP	09 00 22			e	54 10
	H:		08 47 48			KJN	iPKP 03 37 27.8 D 1.2 218.4
			7.7 N, 126.4 E, 109 km			i	38.4 D
			Mindanao, P.I.			eSKKP	50 30
15	NUR	ePKP	10 15 50			SOD	iPKP 03 37 23.6 D
		eSKP	19 30			i	42.7
	KJN	ePKP	10 15 49			e	38 49
		i	52.5	0.9	28.6	ePP	39 40
	SOD	iPKP	10 15 51.0			ePKKP	46 57
	H:		09 56 29.8			KEV	iPKP 03 37 21.0 D 0.8 80.6
			22.7 S, 176.2 W, 33 km (R)			i	32.2 D
			South of Fiji Islands			i	40.2
						ePP	38 52
15	NUR	ePKP	22 33 02			eSKP	40 31
	KJN	ePKP	22 32 59			eSKS	44 18
	SOD	ePKP	22 32 56			eSKKS	45 18
	H:		22 14 43.2			e	50
			26.6 S, 178.3 E, 595 km			ePS	48 50
			South of Fiji Islands			e	51 06
15	NUR	iPKP	22 52 25.0	0.8	8.8	e	53 10
		e	32			e	54 17
		iSKP	55 11.5			eSS	55 16
	KJN	ePKP	22 52 15			e	58 16
		i	24.6			H: 03 18 27.2	
		iSKP	55 01.3			17.7 S, 167.9 E, 31 km	
	SOD	iSKP	22 54 54.7			New Hebrides Islands	
	KEV	eSKP	22 54 49			16	NUR
	H:		22 34 05.4			e	04 54 32
			26.5 S, 178.2 E, 593 km			e	55 05
			South of Fiji Islands			e	14
						KJN	e
						e	04 54 23
						e	49
15	KJN	eP	23 03 47			16	NUR
	SOD	eP	23 04 07			ePKP	05 40 28
15	NUR	ePKP	23 56 39			H: 05 21 19	
	H:		23 37 57			17.7 S, 167.9 E, 16 km	
			16.3 S, 168.1 E, 205 km			New Hebrides Islands	
			New Hebrides Islands			16	NUR
16	KJN	eP	00 36 38			eP	07 50 56
16	NUR	ePKP	03 37 27			KJN	eP
		i	35.0 D	0.8	66.2	eP	07 50 48
		ePP	39 44			16	NUR
			cont.			eP	11 07 26
						ePcP	10 28
						e	11 18
						KJN	iP
						ePcP	11 07 57.7 U 0.8 13.1
						SOD	iP
						KEV	iP
							11 08 19.3 D
							11 08 36.2 D 0.7 23.2

February				T	A	February				T	A	
16	NUR	iP	12 09 03.2 D	0.7	14.5		ePS	15 16				
		e	10 06				ePPS	16 10				
	KJN	iP	12 08 38.3	0.6	14.4		eSS	20 24				
	SOD	iP	12 08 17.1				e	21 06				
	KEV	eP	12 08 01				eSSS	24 20				
	H: 11 58 14.2						eLR	12 37.0				
	52.4 N, 169.6 W, 47 km						KJN eP	12 02 07				
	Fox Islands						e	05 09				
							e	06 11				
16	KJN	eP	15 52 44				iPP	27.6				
16	NUR	iP	17 22 02.0				SOD c	12 05 48				
	KJN	eP	17 21 46	0.7	8.2		ePP	06 46				
	SOD	eP	17 21 42				KEV eP	12 02 20				
		e	53				ePP	06 49				
16	NUR	eP	17 59 02				i	07 02.0				
16	NUR	eP	22 02 36				e	09 14				
	SOD	eP	22 01 48				e	10 39				
	H: 21 52 23						eSKS	12 54				
	58.1 N, 152.2 W, 63 km						eS	13 56				
	Kodiak Island						ePS	16 15				
16	NUR	ePKP	23 56 25				ePPS	17 00				
	KJN	ePKP	23 56 15				eSS	22 03				
	H: 23 37 05						ePSPS	40				
	18.1 S, 173.8 W, 33 km (R)						eSSS	26 14				
	Tonga Islands						eLR	12 39				
17	NUR	eP	07 42 37				H: 11 48 00.8					
	KJN	eP	07 43 11				32.2 S, 78.9 E, 33 km (R)					
							Mid-Indian Rise					
17	NUR	iPKP	08 02 14.0	0.9	16.8	17	NUR	ePKP	18 38 50			
	KJN	ePKP	08 02 05				e	57				
	H: 07 42 31.9						eSKP	41 41				
	33.0 S, 178.9 W, 30 km						KJN iPKP	18 38 49.8	0.8	7.7		
	South of Kermadec Islands						ePKS	42 19				
							H: 18 20 32.4					
							23.5 S, 179.9 W, 548 km					
							South of Fiji Islands					
17	NUR	eP	10 46 15			17	NUR	iP	20 58 43.8	1.0	16.0	
	KJN	eP	10 46 51				KJN	iP	20 58 41.1	1.0	28.3	
		e	47 07				i	59 00.7				
	H: 10 41 27						H: 20 45 45					
	39.1 N, 22.2 E, 33 km (R)						6.1 S, 104.3 E, 33 km (R)					
	Greece						Sunda Strait					
17	NUR	eP	12 01 59			18	NUR	iP	00 38 58.7 U	1.0	50.0	
		e	05 12				iPP	41 33.8				
		ePP	06 12				KJN	iP	00 38 38.5 U	0.7	54.8	
		e	29				ePP	41 04				
	eSKS		12 32				SOD	iP	00 38 28.2 U			
	eS		13 34				KEV	iP	00 38 18.5	0.8	31.7	
	cont.						H: 00 27 53.6					
							36.7 N, 140.4 E, 65 km					
							Honshu, Japan					



February				T	A	February				T	A
20	NUR	iP	05 12 35.0	0.7	19.2	21	NUR	ePKP	00 47 25		
	KJN	iP	05 12 03.3			KJN	ePKP	00 47 31			
	SOD	eP	05 11 27			SOD	iPKP	00 47 35.4			
	H: 00 28 27						H: 00 28 27				
20	NUR	iP	06 08 21.0	0.9	11.8		55.7 S, 26.7 W, 9 km				
		e	44				South Sandwich Islands				
	KJN	iP	06 07 54.6	0.8	14.6	21	NUR	eP	04 39 14		
		i	08 15.9								
	SOD	eP	06 07 36			21	NUR	eP	09 43 13	0.8	10.4
	H: 05 58 09.6						KJN	iP	09 43 03.4		
	53.1 N, 159.8 E, 44 km						SOD	eP	09 43 01		
	Kamchatka						H: 09 30 28.1				
20	NUR	ePKP	06 30 07				6.9 N, 124.1 E, 80 km				
		eSKP	32 45				Mindanao, P.I.				
	KJN	ePKP	06 29 59			21	NUR	iP	13 30 04.6 D	1.0	153.8
		eSKP	32 31				KJN	iP	13 29 48.9 D	1.0	119.9
	H: 06 11 54.4						SOD	iP	13 29 45.4 D		
	17.9 S, 178.5 W, 583 km (R)						KEV	iP	13 29 39.3 U	1.0	61.7
	Fiji Islands						H: 13 18 47.0				
20	NUR	iP	18 26 25.7	0.7	7.9		26.3 N, 125.7 E, 103 km				
		e	27 30				Northeast of Taiwan				
	KJN	iP	18 26 00.9 D			21	NUR	eP	14 24 31	0.8	17.6
	SOD	eP	18 25 44					i	32.2		
	H: 18 15 50.0						KJN	eP	14 24 04	1.0	13.1
	48.0 N, 155.0 E, 33 km (R)						SOD	iP	14 23 45.5		
	Kurile Islands						KEV	eP	14 23 42		
20	NUR	eP	20 06 49				H: 14 14 29.6				
	H: 19 54 51						55.6 N, 162.9 E, 33 km (R)				
	22.3 N, 143.0 E, 283 km						Kamchatka				
	Volcano Islands					21	NUR	eP	16 58 15		
20	NUR	ePKP	20 22 54				KJN	iP	16 58 06.5 U	0.6	20.6
	KJN	ePKP	20 22 42				SOD	iP	16 58 07.1		
		i	53.0				KEV	iP	16 58 07.2		
	H: 20 04 09						H: 16 45 16.0				
	25.9 S, 178.8 W, 353 km						0.1 N, 123.5 E, 188 km				
	South of Fiji Islands						Northern Celebes				
20	NUR	eP	23 47 45			21	NUR	ePKP	17 36 20		
21	NUR	iPKP	00 41 23.5	1.1	31.7			e	30		
		e	54 40				H: 17 17 12.7				
		e	55 42				17.9 S, 167.7 E, 30 km				
		eSS	59 24				New Hebrides Islands				
	KJN	ePKP	00 41 29			21	NUR	eP	20 37 30		
		i	31.4	1.0	28.3		KJN	iP	20 36 52.0		
	SOD	iPKP	00 41 35.5					eS	39 41		
	KEV	ePKS	00 45 00				SOD	eP	20 36 08		
	H: 00 22 29.7							eS	38 32		
	55.6 S, 26.9 W, 33 km (R)										
	South Sandwich Islands										

cont.

February						February										
			T	A			T	A								
	KEV	eP	20	35	42				iPKP	21	04.4	1.0	27.3			
		i			56.7				ePP		39					
		eS		37	33				eSKS	27	35					
	H:		20	33	07				e	31	45					
			78.7 N, 4.3 E, 33 km (R)						ePKKP	32	11					
			Greenland Sea						SOD eP	05	16	56				
21	NUR	eP	23	23	18				ePKP	20	58					
	H:		23	13	15				ePP	21	40					
			55.5 N, 162.9 E, 33 km (R)						ePKKP	32	07					
			Kamchatka						KEV eP	05	16	37				
22	NUR	ePKP	00	36	10				ePKP	20	46					
	KJN	ePKP	00	36	16				ePP	21	00					
	SOD	ePKP	00	36	31				e		10					
	H:		00	17	09.2				ePPP	23	00					
			60.5 S, 26.9 W, 33 km (R)						eSKS	27	22					
			South Sandwich Islands						eSKKS		43					
22	NUR	iP	01	01	42.1	0.9	20.6		ePS	30	28					
	KJN	iP	01	01	31.4	D 0.9	19.6		e		38					
									eSS	36	20					
									eSSS	40	36					
									H:	05	02	37.2				
										5.4 S, 151.5 E, 28 km (R)						
										New Britain						
22	NUR	eP	01	47	01				22 NUR	eP	07	57	48			
	KJN	eP	01	46	38					KJN	eP	07	57	24		
	SOD	eP	01	46	24					SOD	eP	07	56	59		
	H:		01	36	15.7					H:		07	48	08		
			44.3 N, 149.4 E, 33 km (R)								62.4 N, 147.1 W, 73 km					
			Kurile Islands								Central Alaska					
22	NUR	iP	02	49	57.8	U 0.8	17.6		22 NUR	iPKP	09	35	29.0	0.7	19.8	
	KJN	iP	02	49	39.6	0.7	11.6			KJN	ePKP	09	35	24		
	SOD	eP	02	49	35					H:		09	16	24.3		
	KEV	eP	02	49	27						30.0 S, 179.3 W, 286 km					
	H:		02	38	46.7						Kermadec Islands					
			31.5 N, 130.0 E, 33 km (R)													
			Kyushu, Japan													
22	NUR	eP	05	17	14				22 KJN	eP	13	33	19			
	e			20	08				22 SOD	eP	14	48	07			
	iPKP			21	10.6	1.0	30.8		22 NUR	ePKP	18	37	07			
	i				14.1					eSS		53	43			
	ePP				48					KJN	iPKP	18	37	17.4	0.6	9.6
	e			22	07					KEV	ePKP	18	36	41		
	i				13.9					H:		18	18	36.4		
	e			23	34						5.6 S, 151.5 E, 58 km					
	ePPP			24	32						New Britain					
	eSKS			27	50											
	e			28	08											
	ePKKP			32	02				23 NUR	eP	01	25	06			
	KJN eP		05	16	58					H:		01	14	20		
	i			17	02.4						51.3 N, 178.6 E, 55 km					
					cont.						Rat Islands					

February				T	A	February				T	A
23	NUR	eP	23 21 08			25	NUR	ePKP	03 04 20		
24	NUR	eP	00 19 13				KJN	ePKP	03 04 26		
		i	31.6					H:	02 45 11		
		e	22 25						37.2 S, 95.3 W, 33 km (R)		
	KJN	iP	00 19 29.0 D	0.6	8.9				Southern Pacific Ocean		
	SOD	eP	00 19 14			25	NUR	eP	04 05 15		
24	NUR	iP	00 26 16.6	1.0	20.0		KJN	eP	04 05 11		
		ePP	28 21			25	NUR	eP	07 44 08	0.9	10.1
	KJN	iP	00 26 09.4			25	NUR	iP	09 38 51.2	0.9	16.8
	SOD	iP	00 26 17.8				KJN	eP	09 38 39		
	KEV	iP	00 26 21.2	0.7	13.8		SOD	eP	09 38 38		
		H:	00 16 40.5			25	KJN	eP	14 24 41		
			26.4 N, 91.5 E, 47 km					H:	14 10 51		
			Eastern India						5.5 S, 130.3 E, 24 km		
24	NUR	eP	02 59 15						Banda Sea		
24	NUR	iP	05 50 37.0 U	0.9	68.9	25	NUR	eP	23 00 30		
	KJN	iP	05 50 11.3	0.8	15.4			H:	22 49 56		
	SOD	iP	05 49 51.6 U						52.5 N, 172.0 E, 33 km (R)		
	KEV	eP	05 49 38						Near Islands		
		H:	05 40 06.8			25	NUR	ePKP	23 09 58		
			52.6 N, 172.5 E, 65 km					e	10 02		
			Near Islands					ePKS	13 24		
24	NUR	eP	07 50 53	1.2	34.2			ePPS	24 36		
	KJN	iP	07 50 51.4	1.1	21.6			eSS	30 10		
24	NUR	eP	15 18 55	0.8	10.1			e	32 20		
	KJN	iP	15 18 52.2	0.8	16.1		KJN	iPKP	23 09 55.4	1.2	18.9
	SOD	eP	15 18 34					ePKS	13 19		
24	NUR	iP	20 03 18.2 U	0.9	37.0		SOD	ePKP	23 09 54		
	KJN	iP	20 02 53.6 U	0.7	31.5		KEV	ePKP	23 09 44		
	SOD	iP	20 02 29.3 U					ePP	11 28		
	KEV	iP	20 02 11.3	0.7	20.7			eSKS	16 48		
		H:	19 53 15.4					eSS	27 34		
			60.1 N, 147.7 W, 25 km					H:	22 50 47.1		
			Southern Alaska						15.1 S, 173.2 W, 33 km (R)		
24	NUR	eP	21 32 51						Tonga Islands		
	KJN	eP	21 33 12			26	NUR	iP	00 44 23.2 U	1.0	210.0
		i	21.5	0.8	9.2			i	34.1		
	SOD	iP	21 33 29.0				KJN	iP	00 43 57.6 U	1.0	80.7
		H:	21 21 32.2				SOD	iP	00 43 37.2		
			1.6 N, 29.4 W, 33 km (R)					i	48.0		
			Central Mid-Atlantic Ridge				KEV	iP	00 43 21.5	0.9	21.1
24	NUR	eP	23 38 11					H:	00 33 50.1		
	KJN	iP	23 38 08.3	0.7	8.2				52.4 N, 173.6 E, 51 km		
									Near Islands		



February					February				
			T	A			T	A	
26	NUR	ePKP	11 07 22			SOD	ePKP	03 08 08	
			H: 10 48 37.3					H: 02 49 00	
			14.6 S, 167.3 E, 161 km					58.9 S, 25.8 W, 33 km (R)	
			New Hebrides Islands					South Sandwich Islands	
26	NUR	ePKP	11 41 02			27	NUR	eP	14 48 35
		ePKS	44 29				KJN	eP	14 49 06
	KJN	ePKP	11 40 59			27	NUR	iP	16 40 54.6 U 1.0 60.0
			H: 11 21 57				KJN	iP	16 40 29.6 U 0.7 20.5
			15.4 S, 173.4 W, 127 km					iPcP	41 12.5
			Tonga Islands				SOD	iP	16 40 09.7
26	NUR	iP	16 27 55.8	1.0	24.0		KEV	iP	16 39 53.2 0.8 20.6
	KJN	eP	16 27 44					H: 16 30 17.9	
	SOD	iP	16 27 43.2					52.1 N, 175.1 E, 52 km	
								Rat Islands	
26	NUR	ePKP	18 59 21			27	NUR	iPKP	16 45 20.2 D 1.0 80.0
	KJN	iPKP	18 59 14.5 U 1.0 14.2				KJN	iPKP	16 45 08.5
	SOD	iPKP	18 59 16.6					H: 16 26 37.5	
	KEV	iPKP	18 59 09.0 1.0 24.6					30.7 S, 179.5 E, 502 km	
			H: 18 39 28					Kermadec Islands	
			44.5 S, 168.0 E, 33 km (R)			27	NUR	iP	20 53 41.6 1.0 20.0
			South Island, N.Z.				KJN	iP	20 53 17.3 1.0 14.2
26	NUR	e(P)	19 46 07				SOD	eP	20 52 55
		eS	47 26					H: 20 43 00.3	
		e	48 17					53.9 N, 164.0 W, 40 km	
	KJN	eP	19 45 34					Unimak Island	
		eS	46 44			27	NUR	eP	20 57 50
		i	47 23.5				SOD	eP	20 57 30
	SOD	eS	19 46 07				KEV	iP	20 57 25.1 0.8 19.1
		e	32					H: 20 44 59.0	
	KEV	eS	19 46 24					18.8 N, 102.6 W, 94 km	
		e	44					Michoacan, Mexico	
26	NUR	eP	20 57 22			27	NUR	eP	22 27 06 0.9 8.4
	KJN	iP	20 57 38.5 0.9 11.6				KJN	eP	22 27 08
	SOD	iP	20 58 04.8				KEV	eP	22 26 54
	KEV	eP	20 58 20			28	NUR	iP	02 12 20.4 D 0.7 316.1
			H: 20 50 37.2					ipP	13 13.0
			30.5 N, 50.8 E, 60 km					isP	35.0
			Iran					e	14 20
26	KJN	eP	23 53 52					i	28.5
27	NUR	ePKP	00 50 51					iS	20 33.2
			H: 00 31 52					eScS	21 48
			60.8 S, 22.5 W, 33 km (R)					e	28 22
			South Sandwich Islands					eP'P'	41 06
27	NUR	ePKP	03 07 57			KJN	iP	02 11 57.6 D	
	KJN	ePKP	03 08 03	0.9	17.0		ipP	12 49.5	
			cont.					cont.	

February

February

				T	A					T	A
	isP		13 14.8			28	NUR	eP	18 52 50		
	ePPP		15 38				KJN	iP	18 52 16.5 U	0.8	20.8
	iS		19 51.7				SOD	eP	18 51 31		
	eScS		21 21					e	52 12		
SOD	iP	02	11 45.3 D			28	NUR	iP	19 10 03.9	0.6	7.5
	ePP		13 53				KJN	iP	19 09 41.2		
	eS		19 30				SOD	iP	19 09 27.7		
KEV	iP	02	11 34.5 D	0.7	396.0		H: 18 59 46				
	e		12 15				44.0 N, 147.0 E, 266 km				
	ePPP		15 06				Kurile Islands				
	eS		19 06			28	KJN	eP	19 14 59		
	eScS		20 50				H: 19 02 25.7				
H: 02 02 13.6							9.2 N, 126.5 E, 54 km				
43.7 N, 139.6 E, 225 km (R)							Mindanao, P.I.				
Eastern Sea of Japan						28	NUR	eP	19 24 23		
28	NUR	iP	07 50 43.9	0.7	10.3	28	NUR	iP	20 10 14.0		
	KJN	iP	07 50 26.1	0.7	13.7		KJN	eP	20 10 13	0.8	6.2
	H: 07 39 52						SOD	eP	20 10 30		
	32.1 N, 130.3 E, 180 km						H: 20 03 06				
	Kyushu, Japan						35.8 N, 71.3 E, 153 km				
28	NUR	iP	13 47 01.1 D	1.0	44.0		West Pakistan				
	eS		56 32			28	NUR	ePKP	21 57 26		
	eSS	14	01 32				e		45		
	eSSS		04 34				ePS		22 07 44		
KJN	iP	13	46 43.8 D	0.9	49.1		ePKKP		08 10		
	i		47 33.8			KJN	ePKP	21 57 30		1.0	12.0
SOD	iP	13	46 38.0 D				e		48		
	e		48 57				ePKKP		22 07 40		
KEV	iP	13	46 31.2 D	1.0	45.1		H: 21 38 52.4				
	H: 13 35 39.0						26.0 S, 70.4 W, 67 km (R)				
	29.2 N, 130.1 E, 33 km (R)						Northern Chile				
	Ryukyu Islands										
28	NUR	ePKP	18 12 26								
	H: 17 53 19.8										
	21.7 S, 170.5 E, 106 km										
	Loyalty Islands										
28	NUR	eP	18 14 58								
	H: 18 04 14										
	51.8 N, 175.5 E, 33 km (R)										
	Rat Islands										
28	NUR	eP	18 51 48								
	H: 18 41 22										
	56.6 N, 152.9 W, 33 km (R)										
	Kodiak Island										

July 25, 1966

Urmas Luosto  
Aili Huovila

land

March		T	A	March		T	A
1	NUR eP 05 06 54 H: 04 59 53 36.5 N, 69.0 E, 78 km Hindu Kush			KJN eP 04 09 52 e 10 03 H: 04 02 46.5 36.1 N, 70.6 E, 162 km Hindu Kush			
1	NUR eP 07 09 52 KJN eP 07 10 00			2	NUR iP 06 05 21.2 i 28.3 e 11 13 KJN eP 06 04 44 e 09 09 SOD iP 06 04 06.2 e 15 KEV iP 06 03 44.8 D H: 05 59 55 86.0 N, 19.0 E, 33 km (R) North of Svalbard	1.5	46.7
1	NUR ePKP 13 07 09 KJN ePKP 13 06 58 H: 12 47 28 33.6 S, 179.4 W, 36 km South of Kermadec Islands					1.5	66.6
1	NUR iP 23 27 32.0 D 0.9 13.4 e 28 08 KJN iP 23 27 39.6 D 0.9 29.5 e 28 16 SOD iP 23 27 43.9 H: 23 08 39.8 56.9 S, 26.8 W, 33 km (R) South Sandwich Islands			2	NUR eP 07 38 31 KJN eP 07 38 26 SOD eP 07 38 28 H: 07 24 55.6 2.9 S, 129.8 E, 41 km Ceram		
2	NUR eP 00 37 49			2	NUR iP 12 01 54.8 U 1.0 68.0 e 02 05 KJN iP 12 01 28.7 U 1.0 29.4 SOD iP 12 01 09.3 H: 11 51 20.7 52.4 N, 172.3 E, 40 km Near Islands		
2	NUR iP 02 41 52.3 U 0.9 58.8 i 42 18.5 eS 45 46 i 55.9 KJN iP 02 42 11.6 U i 45 40.5 eS 46 25 e 46 SOD iP 02 42 39.3 i 41.7 i 43 06.2 i 47 29.8 KEV eP 02 43 01 i 09.2 1.0 60.0 i 26.9 eS 47 43 H: 02 37 02.3 43.0 N, 45.8 E, 24 km Eastern Caucasus			2	NUR iP 13 14 01.1 KJN iP 13 13 37.5 H: 13 04 15.6 47.2 N, 144.3 E, 356 km Sea of O'hotsk		
2	NUR eP 03 02 29 KJN eP 03 02 49 SOD eP 03 03 22	0.7	6.9	2	NUR eP 14 20 19 KJN iP 14 20 04.6 SOD eP 14 20 02 H: 14 09 01.1 24.4 N, 122.6 E, 102 km Taiwan		
2	NUR eP 04 05 30 KJN eP 04 05 49			2	NUR eP 15 19 51 e 20 52 KJN eP 15 20 09 i 13.5 SOD eP 15 20 36 Moscow: H: 15 15 02 42.9 N, 45.7 E Caucasus		
2	NUR eP 04 09 49 e 10 05						

cont.

March				March			
			T	A		T	A
2	NUR	eP	23 18 26				
	SOD	eP	23 19 31				
3	NUR	iP	03 35 58.3 D	0.9	28.6		
		i	36 09.9				
		e	23				
		ePPP	40 08				
		eS	44 30				
		ePS	45 21				
		eSS	49 08				
		eSSS	51 44				
		eLR	03 56.5				
	KJN	iP	03 35 34.8 D	1.0	54.5		
		e	45				
		iPcP	36 19.2				
	SOD	iP	03 35 18.3				
		ePcP	36 09				
	KEV	eP	03 35 04				
		i	37.8				
		iPcP	36 02.2				
		ePPP	38 30				
		eS	42 42				
		H:	03 25 28.0				
			48.3 N, 154.3 E, 45 km (R)				
			Kurile Islands				
3	KJN	eP	10 28 27				
		H:	10 17 50.6				
			20.0 N, 45.7 W, 33 km (R)				
			North Atlantic Ridge				
3	KJN	eP	11 26 43				
	SOD	iP	11 26 45.6				
3	KJN	eP	15 08 51	0.8	92.3		
3	NUR	eP	17 09 21				
	KJN	eP	17 09 59				
3	NUR	ePKP	21 47 49				
		iSKP	50 28.0				
	KJN	ePKP	21 47 42				
		H:	21 29 36				
			20.5 S, 178.7 W, 605 km				
			Fiji Islands				
3	NUR	eP	21 51 43				
3	NUR	ePKP	23 41 26				
		e	32				
		eSKP	43 48				
4	NUR	eP	00 16 47				
	KJN	eP	00 17 07				
		i	09.7	0.8	20.0		
	SOD	eP	00 17 35				
		e	18 08				
		H:	00 12 00				
			43.0 N, 45.9 E, 51 km				
			Eastern Caucasus				
4	NUR	ePKP	04 06 26				
		eSKP	09 35				
	KJN	ePKP	04 06 26				
		eSKP	09 25				
		H:	03 47 44.6				
			25.2 S, 178.9 W, 370 km				
			South of Fiji Islands				
4	NUR	ePKP	05 53 18				
		H:	05 34 16.2				
			61.0 S, 23.5 W, 118 km				
			South Sandwich Islands				
4	NUR	eP	06 09 01				
	KJN	eP	06 09 02				
	SOD	eP	06 09 23				
		H:	06 01 05				
			30.0 N, 70.0 E, 33 km (R)				
			West Pakistan				
4	NUR	eP	07 51 49				
	KJN	iP	07 52 07.6 U				
	SOD	eP	07 52 36				
		Moscow:					
		H:	07 46 56				
			42.9 N, 45.7 E				
			Caucasus				
4	NUR	ePKP	08 24 24				
		H:	08 04 59				
			28.3 S, 178.0 W, 121 km				
			Kermadec Islands				
4	NUR	eP	10 53 58				
	KJN	eP	10 54 19				
	SOD	eP	10 54 34				
		Moscow:					
		H:	10 49 01				
			41.5 N, 44.3 E				
			Caucasus				
4	NUR	eP	12 55 43				

March				T	A	March				T	A
4	NUR	eP	14 29 55	0.7	6.5	SOD	iP	04 58 41.0	U		
	KJN	eP	14 29 31			KEV	iP	04 58 30.8		1.0	28.0
	SOD	eP	14 29 07			H: 04 48 44.5					
	H: 14 19 31					42.8 N, 143.1 E, 120 km (R)					
	57.0 N, 153.4 W, 33 km (R)					Hokkaido, Japan					
	Kodiak Island										
4	NUR	eP	17 58 07			5	NUR	ePKP	16 04 16		
	KJN	eP	17 58 04			H: 15 45 05					
	SOD	eP	17 58 13			17.6 S, 176.2 E, 33 km (R)					
						Fiji Islands					
4	NUR	eP	21 12 15			5	NUR	eP	21 05 46		
	KJN	iP	21 12 33.6				eS	14 49			
	SOD	iP	21 13 04.7				eSP	15 17			
5	NUR	ePKP	00 18 43				eSS	19 14			
	i		48.6	U	1.0	88.0	eSSS	22 08			
	i		19 41.4				eLR	21 27.0			
	ePP		22 33			KJN	eP	21 06 10			
	e		35 26			SOD	eP	21 06 20			
	e		37 26			KEV	eP	21 06 32			
	eSS		41 46			i		48.6			
KJN	iPKP	00 18 39.2	U			eS		16 06			
	e	19 27				eSS		21 04			
SOD	iPKP	00 18 34.7	U			eSSS		24 33			
	i	51.1				H: 20 54 45.7					
KEV	iPKP	00 18 29.0		1.1	54.7	0.0, 18.0 W, 33 km (R)					
	i	38.1				North of Ascension Island					
	eSS	40 50				5	NUR	ePKP	23 08 50		
H: 23 58 55.9						KJN	ePKP	23 08 51			
38.8 S, 177.9 E, 27 km						H: 22 49 34.9					
North Island, N.Z.						21.5 S, 175.3 W, 40 km (R)					
5	NUR	eP	00 49 28			Tonga Islands					
5	NUR	eP	01 59 24			6	NUR	iP	00 22 11.7	0.9	20.2
	KJN	iP	01 59 13.2	0.7	8.2		i	24.1			
						KJN	iP	00 22 01.7	U	0.7	24.0
						SOD	eP	00 21 58			
						KEV	eP	00 21 53			
5	NUR	eP	02 41 44			H: 00 09 33.2					
	KJN	eP	02 41 50			9.5 N, 126.2 E, 93 km					
	SOD	eP	02 41 44			Mindanao, P.I.					
H: 02 29 15.8						6	NUR	eP	02 00 39		
10.0 N, 69.3 W, 7 km						KJN	iP	02 00 27.8	D	0.7	8.9
Venezuela											
5	NUR	eP	02 57 11			6	NUR	iP	02 19 21.4	1.2	28.5
	KJN	iP	02 57 02.3	D			i	55.2			
H: 02 44 21.8						KJN	iP	02 19 18.7		1.3	41.2
6.1 N, 123.8 E, 62 km						SOD	eP	02 19 30			
Mindanao, P.I.						e	20 05				
						KEV	eP	02 19 37		1.2	39.9
						i	44.8				
5	NUR	iP	04 59 16.2	U	0.8	24.5	H: 02 10 56.8				
	KJN	iP	04 58 53.7	U	0.7	15.1	31.6 N, 80.5 E, 35 km				
	cont.						Tibet				



March				March			
	T	A		T	A		
KJN ePKP	02	53	29				
e			35				
H:	02	35	28				
20.5 S, 178.4 W, 601 km							
Fiji Islands							
7 NUR eP	03	46	23	7 NUR eP	20	51	24
KJN eP	03	46	47	KJN eP	20	51	43
				H:	20	39	12.7
				14.2 S, 14.5 W, 33 km (R)			
				South Atlantic Ridge			
7 SOD eP	04	19	22	7 NUR eP	21	39	10
				i			11.2
				i			16.0
				e		40	52
				ePP		41	26
				ePPP		42	53
				eS		47	14
				eScS		49	00
				eSS		51	10
				KJN eP	21	38	53
				i			57.9
				i		39	33.5
				e		41	23
				eS		46	48
				SOD iP	21	38	50.2 D
				i			54.9
				i		39	18.3
				e		40	35
				eS		46	42
				KEV eP	21	38	44
				i			50.8
				i		39	32.0
				ePP		40	56
				ePPP		42	00
				e		45	19
				eS		46	30
				e		47	10
				eSS		50	15
				eLR	21	55.5	
				H:	21	29	17.0
				37.2 N, 114.8 E, 33 km (R)			
				Northeastern China			
				7 NUR iP	22	45	51.7
				KJN iP	22	45	41.7 U
				SOD iP	22	45	46.1
				H:	22	36	03
				29.2 N, 98.6 E, 33 km (R)			
				Tibet			
7 NUR iP	20	31	57.5	0.8	13.0		
KJN iP	20	31	34.7	1.0	9.8		
SOD iP	20	31	10.4				
H:	20	21	33				
56.8 N, 151.3 W, 33 km (R)							
Kodiak Island							
				8 NUR eP	00	14	43
				e		15	13
				H:	00	04	51
				37.6 N, 115.1 E, 33 km (R)			
				Northeastern China			

March		T	A	March		T	A
8	NUR ePKP 00 37 28 KJN ePKP 00 37 23 H: 00 18 09.8 18.9 S, 173.3 W, 33 km (R) Tonga Islands			8	NUR iP 05 54 20.0 i 21.0 i 42.0 i 53.0 ePP 58 06 eSKS 06 04 42 eS 05 12 ePS 06 38 e 08 38 e 09 46 eSS 10 54 ePKKP 11 24	1.0	44.0
8	NUR iP 01 32 39.4 ePP 34 38 eSKP 36 06 e 39 10 eSP 44 08 eSS 51 46 e 56 32	1.2	62.7	KJN eP 05 54 11 i 12.0 i 22.7 ePP 57 47 eS 06 05 11			
	KJN iP 01 32 32.6 U i 35.6 ePP 34 20 eSKP 36 16	0.7	10.3	SOD iP 05 54 10.5 U i 32.8 ePP 57 46 eSKS 06 04 48 eS 05 12 ePKKP 11 27			
	SOD iP 01 32 28.7			KEV iP 05 54 08.0 U i 14.5 e 55 07 ePP 58 10 e 06 03 56 eSKS 04 38 eS 05 10 ePS 06 14 ePPS 07 08 e 08 17 e 09 26 eSS 11 12 e 16 26	1.2	81.8	
	KEV ePKP 01 32 29 ePP 33 40 e 39 50 eSP 43 18 eSPP 44 50 eSSS 54 10	0.8	30.8	H: 05 41 04.5 1.9 N, 126.4 E, 33 km (R) Molucca Passage			
	H: 01 13 42.3 13.9 S, 166.6 E, 37 km New Hebrides Islands			8	KJN eP 06 01 45 SOD eP 06 01 46		
8	NUR eP 02 14 09 KJN eP 02 13 58 H: 02 04 20.2 37.2 N, 115.0 E, 33 km (R) Northeastern China			8	NUR eP 06 13 22 KJN iP 06 13 12.9 D e 29 ePP 16 43 SOD iP 06 13 12.1 KEV eP 06 13 10	0.7	13.7
8	NUR ePKP 02 51 28 H: 02 32 52.7 31.3 S, 68.6 W, 102 km San Juan, Argentina			H: 06 00 05.6 1.7 N, 126.4 E, 33 km (R) Molucca Passage			
8	NUR eP 02 56 29 KJN iP 02 56 54.7 U SOD iP 02 57 41.1 KEV eP 02 58 10	1.2	17.1				
		0.9	11.6				
8	NUR eP 03 56 31 KJN eP 03 56 13 SOD eP 03 56 07 H: 03 46 37.6 37.6 N, 114.9 E, 33 km (R) Northeastern China						



March						March			
				T	A				
8	NUR	eP	06 35 04			9	NUR	eP	16 16 11
8	NUR	eP	12 32 31	1.2	28.5		KJN	eP	16 16 29
	KJN	eP	12 32 22				e		49
	i		26.5				SOD	eP	16 17 06
	SOD	eP	12 32 20				e		27
	H:		12 19 20.8			9	NUR	iP	23 26 51.0
			1.9 N, 126.4 E, 78 km				KJN	eP	23 26 47
			Molucca Passage				i		50.1
8	NUR	eP	18 56 35				SOD	iP	23 26 51.6
	KJN	eP	18 57 13				H:		23 13 52
	SOD	eP	18 57 38						7.4 S, 108.4 E, 148 km
	H:		18 51 47.2						Java
			38.9 N, 21.3 E, 48 km			10	NUR	iP	00 36 23.2
			Greece				KJN	eP	00 36 11
8	SOD	ePKP	21 04 51			10	NUR	eP	02 38 08
	H:		20 46 12.0			10	SOD	eP	02 47 59
			20.0 S, 68.9 W, 122 km			10	NUR	eP	03 59 48
			Chile-Bolivia border				H:		03 48 43
8	NUR	eP	23 37 09	0.9	16.8				35.3 N, 135.5 E, 33 km (R)
	H:		23 26 40						Southern Honshu, Japan
			53.4 N, 170.3 E, 18 km			10	NUR	iP	04 37 07.7 D
			Near Islands				iS		45 58.0
9	NUR	eP	03 22 41				esS		48 36
	H:		03 12 48.2				eSS		50 50
			2.2 N, 31.5 E, 35 km				esSS		53 15
			Uganda				e		56 30
9	NUR	eP	08 24 48				KJN	iP	04 36 48.9 D
							i		54.1
9	NUR	iP	10 04 55.1	0.7	9.0		SOD	iP	04 36 40.6 D
	KJN	iP	10 04 52.2 U	0.9	24.0		epP		38 11
	SOD	iP	10 04 59.2				e		42
	H:		09 52 42				KEV	iP	04 36 32.2 D
			1.1 N, 99.0 E, 33 km (R)				eS		44 52
			Northern Sumatra				eScS		45 48
9	NUR	eP	14 14 58				esS		47 24
	SOD	eP	14 14 32				e		51 20
	H:		14 02 12.8				H:		04 26 19.6
			27.6 N, 115.0 W, 33 km (R)						32.2 N, 137.5 E, 382 km (R)
			Baja, California						South of Honshu, Japan
9	KJN	eP	15 14 31			10	NUR	iPKP	07 20 51.7 D
	H:		15 06 28				e		21 38
			34.8 N, 80.2 E, 33 km (R)				KJN	iPKP	07 20 43.5 D
			Tibet				SOD	ePKP	07 20 30
							H:		07 01 18
									38.5 S, 175.7 E, 135 km
									North Island, N.Z.

March						March			
				T	A				
10	SOD	eP	09 38 08			11	KJN	eP	23 23 13
10	NUR	eP	11 24 03						H: 23 13 27.2
		eS	28 09						28.4 N, 43.8 W, 33 km (R)
	KJN	eP	11 24 31						North Atlantic Ridge
	BCIS:					11	NUR	eP	23 25 16
	H: 11 18 56						KJN	eP	23 25 26
	39.3 N, 41.6 E						SOD	eP	23 25 24
	Turkey						H: 23 15 42.3		
10	NUR	ePKP	12 33 57				28.2 N, 43.9 W, 33 km (R)		
		eSKP	37 02				North Atlantic Ridge		
	KJN	ePKP	12 33 55			11	KJN	eP	23 28 30
		iSKP	36 51.0				H: 23 18 50.0		
	H: 12 15 19.4						28.3 N, 44.0 W, 33 km (R)		
	19.3 S, 177.0 W, 320 km (R)						North Atlantic Ridge		
	Fiji Islands					11	KJN	eP	23 46 24
10	KJN	iP	12 54 56.8	1.0	12.0		H: 23 36 42.7		
	SOD	eP	12 54 56				28.5 N, 44.0 W, 33 km (R)		
	H: 12 41 53						North Atlantic Ridge		
	1.7 N, 126.2 E, 62 km					12	NUR	iPKP	01 25 03.4 D 0.7 44.5
	Molucca Passage						i		05.6
10	KJN	eP	19 20 14				eSKP		28 32
	SOD	eP	19 20 12			KJN	ePKP	01 24 52	
	e		20				i		56.6
10	NUR	eP	23 11 01				i		59.5
	KJN	eP	23 11 22				e		26 32
11	NUR	eP	00 45 34			SOD	ePKP	01 24 46	
	KJN	eP	00 45 55				i		53.1
		i	57.6			KEV	ePKP	01 24 47	
		i	46 09.5			H: 01 05 34.6			
	SOD	eP	00 46 09			30.8 S, 178.5 W, 94 km			
						Kermadec Islands			
11	NUR	eP	20 07 16			12	NUR	eP	02 10 19
		i	18.9	1.0	59.5		e		11 25
	KJN	iP	20 07 49.2 D	1.5	73.3	12	NUR	iPKP	12 28 19.1 U 0.7 21.5
		i	56.8				H: 12 09 04		
	SOD	iP	20 08 18.2 D				30.6 S, 178.8 W, 202 km		
	KEV	eP	20 08 39				Kermadec Islands		
	H: 20 01 43.8					12	NUR	ePKP	14 46 12
	34.4 N, 24.4 E, 22 km						H: 14 26 57.6		
	Crete						15.7 S, 173.0 W, 33 km (R)		
11	NUR	eP	20 24 08				Tonga Islands		
	KJN	eP	20 24 44			12	NUR	iP	16 42 45.8 U 1.5 1167.0
	SOD	eP	20 25 12				iS		52 09.2
11	NUR	eP	22 36 45				iScS		46.2
	KJN	eP	22 36 06	0.8	9.2		eP'P'		17 10 17
	SOD	eP	22 35 23				cont.		
	KEV	eP	22 34 54						



March				March			
				T	A		
	KJN	iP	16 42 31.5 U				
		eS	51 42				
		eScS	52 22				
		e	35				
		eP'P'	17 10 23				
	SOD	iP	16 42 28.7 U				
		iS	51 37				
		iScS	52 16				
		e	53 08				
		e	50				
		iP'P'	17 10 31.0				
		i	35.8				
	KEV	iP	16 42 24.1 U	1.5	1214.2		
		e	46 44				
		eS	51 26				
		e	37				
		ePPS	52 10				
		eScS	28				
		e	53 00				
		eP'P'	17 10 37				
	H: 16 31 21.8						
	24.1 N, 122.6 E, 63 km						
	Taiwan						
12	NUR	eP	16 59 18				
	KJN	eP	16 59 05				
	SOD	iP	16 59 00.6				
	KEV	iP	16 58 56.3	0.9	21.8		
	H: 16 47 49						
	24.0 N, 122.7 E, 33 km (R)						
	Taiwan						
12	SOD	eP	17 01 28				
12	NUR	eP	17 04 42				
	KJN	eP	17 04 28	0.6	14.4		
	SOD	eP	17 04 25				
	KEV	eP	17 04 23				
	H: 16 53 18						
	23.8 N, 122.5 E, 78 km						
	Taiwan						
12	NUR	eP	17 19 27				
	KJN	eP	17 19 22				
	SOD	eP	17 19 24				
	KEV	eP	17 19 20				
12	SOD	eP	17 21 09				
12	NUR	eP	17 42 00				
	KJN	iP	17 41 44.9	0.5	8.8		
	SOD	iP	17 41 42.3				
12	KJN	eP	18 03 48				
12	NUR	iP	18 11 01.0 D	1.1	45.3		
		e	17				
	KJN	iP	18 10 45.8	1.0	78.5		
		i	58.8				
	SOD	iP	18 10 43.7 D				
		i	11 11.0				
		e	12 26				
	KEV	iP	18 10 39.2 D	1.0	60.0		
		e	51				
	H: 17 59 39						
	24.4 N, 122.8 E, 83 km						
	Taiwan						
12	NUR	eP	18 25 10				
	KJN	iP	18 24 54.3	0.6	11.0		
	SOD	iP	18 24 51.9				
	H: 18 13 43						
	23.9 N, 122.7 E, 69 km						
	Taiwan						
12	NUR	eP	18 42 15				
	KJN	eP	18 42 01	0.5	5.1		
	SOD	eP	18 41 58				
12	NUR	ePKP	18 45 26				
	KJN	ePKP	18 45 30	1.1	16.2		
		e	39				
	SOD	ePKP	18 45 26				
		e	38				
	H: 18 26 35.4						
	34.3 S, 72.3 W, 55 km						
	Near coast of Central Chile						
12	KJN	eP	18 53 40				
12	NUR	eP	19 25 26				
	KJN	iP	19 25 10.8	0.6	5.5		
	SOD	iP	19 25 09.5				
	H: 19 13 56						
	23.4 N, 123.1 E, 53 km						
	Southwestern Ryukyu Islands						
12	NUR	eP	19 28 30				
	KJN	iP	19 28 15.8 D	0.6	7.5		
	SOD	eP	19 28 13				
12	NUR	iP	19 34 28.3 D	1.0	23.8		
	KJN	iP	19 34 13.0 U	0.6	19.9		
	SOD	iP	19 34 10.9 U				

cont.

March				T	A	March				T	A	
	KEV	iP	19 34 06.0	0.9	20.2	SOD	eP	22 15 28				
			H: 19 23 02				e	44				
			24.0 N, 122.9 E, 63 km					H: 22 04 18				
			Taiwan					24.3 N, 122.7 E, 33 km (R)				
								Taiwan				
12	KJN	eP	19 40 22	0.6	4.1	12	NUR	eP	22 30 02			
	SOD	eP	19 40 19				KJN	eP	22 29 48	1.0	13.1	
12	KJN	eP	20 20 03				SOD	eP	22 29 40			
	SOD	eP	20 20 00					H: 22 18 35				
			H: 20 08 49					23.7 N, 122.4 E, 48 km				
			24.3 N, 122.7 E, 33 km (R)					Taiwan				
			Taiwan									
12	NUR	eP	20 43 11			12	KJN	iP	22 31 26.7 D	0.7	7.5	
	KJN	iP	20 42 55.5 D	0.6	11.6		SOD	eP	22 31 23			
	SOD	iP	20 42 53.0 D									
			H: 20 31 44					H: 22 52 46				
			23.7 N, 122.8 E, 63 km					KJN	eP	22 53 20		
			Taiwan					H: 22 47 32				
								39.3 N, 6.0 E, 33 km (R)				
								Western Mediterranean Sea				
12	KJN	eP	20 47 18			12	NUR	eP	23 44 36			
12	NUR	eP	20 52 56				KJN	eP	23 44 20			
	KJN	iP	20 52 43.0	0.6	4.8		SOD	eP	23 44 14			
			H: 20 41 40					H: 23 33 18				
			24.2 N, 122.6 E, 125 km					24.9 N, 122.3 E, 111 km				
			Taiwan					Taiwan				
12	NUR	eP	21 03 16			13	NUR	eP	01 00 40			
	KJN	iP	21 03 01.8				KJN	eP	01 00 24			
	SOD	iP	21 02 59.3				SOD	eP	01 00 19			
	KEV	eP	21 02 54					H: 00 49 15				
			H: 20 51 58					24.0 N, 122.4 E, 62 km				
			25.0 N, 122.4 E, 79 km					Taiwan				
			Taiwan									
12	NUR	eP	21 08 28			13	KJN	eP	01 46 18	1.1	14.9	
	KJN	iP	21 08 13.1	0.7	10.3		SOD	eP	01 46 15			
	SOD	iP	21 08 10.4					H: 01 36 34.0				
			H: 20 57 09					28.3 N, 43.8 W, 33 km (R)				
			24.5 N, 122.7 E, 110 km					North Atlantic Ridge				
			Taiwan									
12	KJN	eP	21 53 32			13	KJN	eP	02 17 45			
			H: 21 42 20									
			24.5 N, 122.5 E, 33 km (R)									
			Taiwan									
12	NUR	eP	22 15 46			13	NUR	eP	03 17 01			
	KJN	eP	22 15 31	0.7	6.2		KJN	eP	03 16 46	0.5	8.8	
							SOD	iP	03 16 43.7			
								H: 03 05 41				
								24.9 N, 122.8 E, 75 km				
								Taiwan				
						13	KJN	eP	03 33 11			
						13	KJN	eP	03 37 47			

cont.

March				March			
		T	A		T	A	
13	NUR eP	04 08 57		SOD iP	15 04 58.0		
	KJN iP	04 08 41.7 D		KEV iP	15 04 53.0 U	0.9	15.5
	SOD eP	04 08 39		H: 14 53 47.6			
	H: 03 57 28			23.8 N, 122.7 E, 51 km			
	23.9 N, 122.9 E, 52 km			Taiwan			
	Taiwan						
13	NUR eP	04 22 47		13 KJN iP	15 11 59.4	0.6	5.5
	KJN eP	04 22 30	0.7	5.5	SOD eP	15 11 56	
	SOD eP	04 22 25					
	e	32		13 SOD eP	16 11 13		
	H: 04 11 22			H: 15 58 32			
	24.3 N, 122.8 E, 74 km			1.2 N, 124.1 E, 237 km			
	Taiwan			Northern Celebes			
13	NUR eP	04 42 22		13 NUR ePKP	18 18 36		
	e	43 24		KJN ePKP	18 19 25		
	KJN iP	04 42 06.8	0.9	SOD ePKP	18 19 15		
	SOD iP	04 42 04.6 D	17.0	KEV ePKP	18 19 21		
	H: 04 30 55			H: 17 58 36			
	23.8 N, 122.2 E, 61 km			55.0 S, 126.4 W, 33 km (R)			
	Taiwan			Easter Island Cordillera			
13	KJN eP	05 06 43		13 NUR ePKP	18 59 50		
	SOD eP	05 06 35		eSKP	19 03 30		
	H: 04 55 31			ePKS	52		
	23.9 N, 122.8 E, 60 km			KJN iP	18 59 51.8	0.7	8.2
	Taiwan			e	19 02 19		
13	NUR eP	07 32 32		ePKS	03 40		
	KJN iP	07 32 15.9	0.7	SOD ePKP	18 59 45		
			5.5	eSKP	19 03 06		
13	NUR eP	08 14 11		KEV ePKP	18 59 45		
	KJN iP	08 13 55.5 D	0.7	H: 18 40 40.7			
	e	14 16	17.1	20.9 S, 175.4 W, 65 km (R)			
	SOD iP	08 13 52.8		Tonga Islands			
	KEV eP	08 13 48		13 NUR eP	19 13 18		
	H: 08 02 47			KJN eP	19 13 04		
	24.1 N, 122.3 E, 75 km			SOD eP	19 13 00		
	Taiwan			H: 19 01 50.2			
13	SOD eP	12 56 16		24.1 N, 123.2 E, 47 km			
				Southern Ryukyu Islands			
13	KJN eP	13 47 11		13 NUR eP	19 40 45		
	e	49 44		KJN eP	19 41 20		
13	KJN eP	14 11 17	0.6	SOD eP	19 41 45		
	SOD eP	14 11 14	5.5	H: 19 35 51.5			
13	NUR iP	15 05 16.0 U	0.9	38.9 N, 21.6 E, 11 km			
	KJN iP	15 05 00.8 U	0.7	Greece			
	i	21.6	13.6	13 KJN eP	21 59 07		
	cont.		8.2	H: 21 46 22			
				14.4 N, 88.4 W, 27 km			
				Honduras			





March								March							
				T	A					T	A				
15	NUR	iP	11 25 25.0 D	1.0	25.8	16	NUR	eP	19 56 56						
	KJN	iP	11 25 09.9 U	1.0	52.3										
	SOD	iP	11 25 07.4 D			16	NUR	eP	20 49 14						
	KEV	iP	11 25 03.2	0.9	25.8										
	H: 11 14 00.9					16	NUR	iP	20 51 00.6	1.2	38.0				
	24.2 N, 122.7 E, 65 km							i	10.1						
	Taiwan							eS	21 01 26						
15	SOD	eP	12 24 33					e	04 14						
								eSS	07 08						
15	NUR	iP	17 08 25.6			KJN	iP	20 50 49.7	1.2	37.8					
	KJN	iP	17 08 17.2				i	51 00.2							
	KEV	eP	17 07 55			SOD	iP	20 50 49.3 U							
							i	58.3							
15	NUR	eP	23 43 15	1.1	27.4	KEV	eP	20 50 46							
	e		28				eS	21 01 03							
	KJN	iP	23 42 59.1	1.0	49.1	H: 20 38 23.5									
	e		43 20			9.5 N, 121.9 E, 24 km									
	SOD	iP	23 42 57.0 U			Sulu Sea									
	KEV	iP	23 42 53.4	1.1	58.6	17	NUR	eP	04 10 36						
	H: 23 31 46.1						KJN	eP	04 10 27						
	24.4 N, 122.7 E, 22 km						i	28.6							
	Taiwan						i	43.0							
16	NUR	ePKP	00 02 32			SOD	iP	04 10 27.7							
	KJN	ePKP	00 02 31	0.7	6.2		i	34.3							
	H: 23 44 27.6					KEV	iP	04 10 24.9	0.9	15.5					
	18.0 S, 178.2 W, 606 km						e	34							
	Fiji Islands					H: 03 57 27.0									
16	NUR	eP	00 16 14			2.0 N, 126.4 E, 79 km									
	KJN	eP	00 16 13	0.7	8.9	Molucca Passage									
	SOD	iP	00 16 26.7			17	NUR	eP	04 19 44						
	KEV	eP	00 16 35				KJN	eP	04 20 27						
	H: 00 08 19						e	46							
	33.1 N, 75.9 E, 57 km					17	NUR	eP	05 53 24						
	Eastern Kashmir						SOD	eP	05 53 31						
16	SOD	eP	01 57 45			H: 05 44 50.5									
16	SOD	eP	05 55 07			31.5 N, 82.8 E, 33 km (R)									
						Tibet									
16	NUR	ePKP	12 32 14			17	NUR	eP	08 51 14						
	e		34 09				KJN	eP	08 51 04						
	KJN	iPKP	12 32 15.7 D	1.1	29.7		SOD	iP	08 51 04.8						
	H: 12 13 02.4						i	15.7							
	21.2 S, 174.3 W, 66 km					H: 08 38 44.0									
	Tonga Islands					9.4 N, 122.1 E, 80 km									
						Negros, P.I.									
16	KJN	eP	17 09 45			17	NUR	ePKP	16 08 34	1.0	118.0				
	H: 16 57 37						i	45.5	1.1	1023.4					
	12.5 N, 120.6 E, 33 km (R)						epPKP	10 50							
	Mindoro, P.I.														

cont.

March				March			
			T	A		T	A
	i		11	12.0			
	iSKP			21.2			
	i			28.6			
	iPKS		12	18.6			
	epPP		13	46			
	epPKS		14	40			
	esPKS		15	48			
	e		17	50			
	e		19	26			
	e		21	44			
	e		26	50			
	esSS		32	38			
	e		37	32			
KJN	ePKP	16	08	24			
	i			26.8			
	i			38.1 D			
	e		10	13			
	iSKP		11	10.0			
	iPKS		12	08.0			
	eSP		21	15			
SOD	ePKP	16	08	19			
	i			33.8			
	isP		09	03.8			
	i		10	38.2			
	ePP			55			
	iSKP		11	01.0			
	ePKS		12	01			
KEV	ePKP	16	08	20	1.4	798.0	
	i			30.3			
	i			38.2			
	isP		09	01.4			
	ePP		10	44			
	iSKP			54.1			
	iPKS		11	53.8			
	epPKS		13	54			
	esPKS		15	12			
	e		17	20			
	e		19	12			
	ePSKS		20	48			
	e		22	40			
	esPS		24	40			
	e		26	20			
	eSS		27	32			
	e		29	34			
	H: 15 50 32.2						
	21.1 S, 179.2 W, 626 km (R)						
	Fiji Islands						
17	NUR	eP	16	44 48	1.0	26.0	
	KJN	iP	16	44 33.0	1.0	20.7	
	SOD	eP	16	44 16			
	i			21.0			
KEV	eP		16	44 11			
	18	KJN	eP	06 24 59			
		SOD	eP	06 25 12			
	18	NUR	eP	14 25 03			
		KJN	iP	14 24 38.8 D	0.7	6.9	
		SOD	eP	14 24 18			
		H: 14 14 14					
		51.8 N, 174.7 W, 56 km					
		Andreanof Islands					
	18	KJN	eP	17 20 51			
		H: 17 08 40					
		11.3 S, 66.4 E, 33 km (R)					
		Mid-Indian Rise					
	18	KJN	eP	18 16 40			
		SOD	eP	18 16 20			
		H: 18 05 23.5					
		43.7 N, 127.3 W, 33 km (R)					
		Off coast of Oregon					
	18	NUR	iP	18 21 09.0	0.9	16.8	
		KJN	iP	18 20 45.2 U	0.7	15.8	
		SOD	iP	18 20 20.7 U			
		KEV	iP	18 20 02.6 U	0.8	22.1	
		H: 18 11 09					
		60.3 N, 146.6 W, 34 km					
		Southern Alaska					
	18	NUR	iPKP	21 05 26.7			
			iSKP	08 44.5			
		KJN	ePKP	21 05 19			
			eSKP	08 33			
		H: 20 46 19.4					
		20.7 S, 169.7 E, 78 km					
		New Hebrides Islands					
	19	NUR	eP	02 59 31			
	19	NUR	eP	03 04 04			
		KJN	eP	03 03 53			
	19	NUR	eP	04 45 36	1.0	10.0	
	19	NUR	iP	06 21 11.2	0.7	7.7	
		KJN	eP	06 20 47			
		SOD	eP	06 20 22			
		H: 06 10 47					
		57.7 N, 153.0 W, 2 km					
		Kodiak Island					
	19	NUR	eP	07 19 30			





March		T	A	March		T	A
19	NUR iP 08 22 29.0 U	0.6	112.5		eS 02 02 36		
	KJN iP 08 22 06.1 U	1.0	103.6		eP'P' 22 13		
	SOD iP 08 21 52.8 U			KEV iP 01 53 54.0 U	1.4	233.7	
	KEV iP 08 21 41.0 U	1.0	54.0	i 54 03.8			
	H: 08 11 40			ePP 56 27			
	43.3 N, 145.8 E, 11 km			e 57 15			
	Hokkaido, Japan			ePPP 58 12			
19	NUR e(P) 15 11 18			eS 02 03 00			
	KJN eP 15 10 51			eP'P' 22 10			
	SOD eP 15 10 48			H: 01 42 49.9			
	H: 14 59 37			0.6 N, 30.2 E, 36 km (R)			
	23.8 N, 122.5 E, 42 km			Uganda			
	Taiwan			20 NUR iP 02 26 21.0			
19	NUR eSKP 16 50 29			KJN eP 02 25 59	0.8	11.5	
	KJN eSKP 16 50 19			i 26 16.8			
	H: 16 29 10.3			SOD iP 02 25 46.8			
	24.4 S, 179.9 E, 510 km			KEV eP 02 25 43			
	South of Fiji Islands			20 KJN iP 02 28 09.0	1.0	16.4	
19	NUR eP 17 09 36			SOD eP 02 28 28			
	KJN eP 17 09 19	0.9	19.6	20 NUR eP 02 49 44			
	SOD iP 17 09 15.7			KJN iP 02 50 08.2	1.5	73.3	
	H: 16 59 41.7			SOD eP 02 50 28			
	37.4 N, 114.8 E, 33 km (R)			H: 02 39 40.0			
	Northeastern China			1.1 N, 29.9 E, 11 km			
19	NUR ePS 17 45 44			Republic of the Congo			
	eSS 51 38			20 NUR eP 03 31 02			
	SOD iPKP 17 35 27.2			KJN eP 03 30 40			
	H: 17 16 40.9			20 NUR iP 03 32 49.4			
	52.7 S, 19.9 E, 33 km (R)			KJN iP 03 33 13.2 U	0.9	22.3	
	Southwest of Africa			i 18.8 U			
20	NUR iP 01 52 51.0			SOD iP 03 33 34.6			
	i 53.1 U	1.5	312.9	i 41.0			
	ePP 55 10			KEV eP 03 33 50	1.0	22.0	
	ePPP 56 46			H: 03 22 48			
	e 02 00 20			1.0 N, 29.8 E, 33 km (R)			
	eS 01 06			Republic of the Congo			
	eP'P' 22 35			20 NUR iP 05 56 22.1 U	0.8	118.1	
	eSKPP' 25 26			i 38.5			
KJN	iP 01 53 14.3 U	1.0	22.9	i 57.0			
	i 17.1 U	1.6	750.8	i 06 04 36.0			
	iPP 55 37.4			KJN iP 05 56 09.2 U	0.6	185.0	
	eS 02 01 53			i 38.0			
	ePS 02 10			e 06 01 52			
	eP'P' 22 25			e 02 15			
	eSKPP' 25 05			i 03 07.0			
SOD	iP 01 53 35.3						
	i 38.1						
	cont.						

March		T	A	March		T	A
	SOD iP 05 56 16.3 U			20	NUR iP 13 02 25.0		
	i 54.9				KJN eP 13 02 40		
	KEV iP 05 56 19.5 U 0.5 121.4			20	SOD eP 16 50 40		
	i 51.0			20	NUR eP 17 39 39		
	iPP 57 14.0				KJN iP 17 39 27.8 U 1.0 18.5		
	iPcP 59 16.0				i 35.5		
	e 06 02 24				SOD iP 17 39 26.2		
	BCIS:				H: 17 27 12.6		
	H: 05 50 00				13.2 N, 124.9 E, 33 km (R)		
	50.0 N, 78.0 E				Luzon, P.I.		
	Eastern Kazakh SSR			20	NUR iP 18 02 03.0 0.9 18.5		
20	NUR ePKP 07 11 18				KJN iP 18 01 58.1 D 0.7 17.1		
	KJN ePKP 07 11 08				SOD iP 18 01 55.2		
	H: 06 52 50			20	NUR ePKP 18 28 07		
	12.2 S, 167.1 E, 272 km				KJN ePKP 18 28 03		
	Santa Cruz Islands				H: 18 09 09.5		
20	NUR ePKP 08 06 46				12.3 S, 167.4 E, 57 km		
	i 55.5 1.1 42.8				Santa Cruz Islands		
	iSKP 10 17.6			20	NUR eP 20 32 01		
	KJN ePKP 08 06 48			20	NUR iP 21 53 38.2 1.1 30.9		
	iSKP 10 05.0				e 44		
	iPKS 12.0				KJN iP 21 53 13.1 1.0 26.2		
	SOD ePKP 08 06 36				SOD eP 21 52 37		
	KEV iPKP 08 06 38.9 0.9 25.2				KEV eP 21 52 25		
	H: 07 47 50.2				H: 21 50 00		
	17.0 S, 174.3 W, 117 km (R)				71.8 N, 2.5 W, 33 km (R)		
	Tonga Islands				Jan Mayen Island		
20	NUR iP 09 05 41.7			20	SOD eP 22 22 45		
	SOD iP 09 06 26.9 U			20	NUR eP 22 32 37		
	KEV eP 09 06 42 0.8 23.0				eS 35 28		
	i 43.8				e 36 20		
	H: 08 55 35.5				KJN eP 22 32 13		
	0.8 N, 29.8 E, 12 km				eS 34 45		
	Republic of the Congo				SOD eP 22 31 42		
20	NUR ePKP 09 23 38				KEV eP 22 31 28		
	KJN iPKP 09 23 41.0 D 1.0 31.6				H: 22 28 49.9		
	i 51.3				71.2 N, 5.8 W, 33 km (R)		
	SOD ePKP 09 23 32				Jan Mayen Island		
	H: 09 04 31.8			21	NUR iP 00 14 26.2 D 1.0 24.0		
	21.0 S, 174.5 W, 95 km (R)				KJN iP 00 14 11.6 D 0.8 20.8		
	Tonga Islands				SOD iP 00 14 08.9		
20	NUR eP 10 13 50						
	KJN eP 10 13 48						
	e 14 04						
	SOD eP 10 13 42						
	H: 10 00 41.7						
	7.2 S, 105.6 E, 33 km (R)						
	Java						

cont.





March						March					
				T	A					T	A
22	NUR	iP	11 18 30.6	0.8	27.9	eSS	29 46				
		e	47			eSSS	32 48				
	KJN	iP	11 18 13.8 U	0.7	30.4	eLR	00 37.2				
	SOD	iP	11 18 10.7 U			H: 00 04 34.7					
		i	14.6			23.8 N, 122.8 E, 51 km					
	KEV	iP	11 18 05.1	0.8	23.0	Taiwan					
			H: 11 08 40								
			38.1 N, 115.0 E, 33 km (R)								
			Northeastern China								
22	KJN	eP	11 47 05			23	NUR	eP	01 18 07		
			H: 11 37 31				KJN	iP	01 17 49.8		
			38.0 N, 114.6 E, 33 km (R)						H: 01 06 56		
			Northeastern China						27.1 N, 140.4 E, 450 km		
									Bonin Islands		
22	NUR	eP	12 17 57			23	NUR	ePKP	04 30 35		
	KJN	eP	12 17 39				KJN	ePKP	04 30 40		
	SOD	iP	12 17 36.7						H: 04 11 36.1		
			H: 12 08 06						38.1 S, 73.6 W, 33 km (R)		
			37.9 N, 114.9 E, 33 km (R)						Central Chile		
			Northeastern China			23	NUR	eP	05 24 07		
22	NUR	iP	19 41 42.4				KJN	iP	05 24 05.7	1.0	16.4
		e	58					i	20.6	0.9	11.6
	KJN	eP	19 41 31						H: 05 11 32.5		
		e	47						16.8 N, 85.9 W, 33 km (R)		
									Caribbean Sea		
23	NUR	iP	00 16 02.2 U	0.9	1125.6	23	NUR	iPKP	11 40 11.4	1.1	40.5
		i	16.0				KJN	iPKP	11 40 01.2 D		
		ePPP	20 32					i	12.4		
		e	21 11						H: 11 20 30		
		iS	25 27.0						32.8 S, 178.5 W, 44 km		
		eScS	52						South of Kermadec Islands		
		eSS	30 38			23	NUR	eP	17 37 55		
		eLQ	00 35.5				KJN	eP	17 37 38		
		eLR	00 40.0				SOD	eP	17 37 34		
	KJN	iP	00 15 48.0 U						H: 17 28 01.5		
		ePPP	20 07						37.5 N, 115.0 E, 33 km (R)		
		e	21 07						Northeastern China		
		eS	24 58			24	SOD	eP	01 13 12		
		ePS	25 32			24	NUR	iP	03 32 52.0 U	0.9	20.2
	KEV	iP	00 15 41.1 U	0.9	772.8		KJN	eP	03 32 26	0.9	9.8
		i	49.2						H: 03 22 20		
		i	16 03.3						52.8 N, 171.9 E, 33 km (R)		
		ePP	18 14						Near Islands		
		ePPP	19 50			24	NUR	ePKP	04 23 52		
		e	21 26					e	58		
		eS	24 46					iSKP	27 18.0		
		ePS	25 19						cont.		
			cont.						cont.		

March				March			
		T	A			T	A
	KJN ePKP	04 23 49		25	NUR eP	22 09 47	1.0 12.3
	iSKP	27 07.0			KJN iP	22 09 25.1 U	0.8 11.5
	SOD iSKP	04 26 57.8			SOD eP	22 09 01	
	H:	04 04 55.5			H:	21 59 26.4	
		21.5 S, 176.4 W, 191 km (R)				56.6 N, 135.4 W, 22 km	
		Fiji Islands				Southeastern Alaska	
24	NUR iPKP	08 46 48.0	0.8 21.6	25	NUR eP	23 22 10	
	KJN iPKP	08 46 41.0	0.9 15.2		e	13	
	SOD ePKP	08 46 37			e	26 35	
	H:	08 27 51.3			KJN iP	23 22 44.0 U	0.9 11.6
		13.7 S, 166.8 E, 43 km			e	26 08	
		New Hebrides Islands			SOD eP	23 23 14	
					H:	23 17 20.0	
24	NUR ePKP	11 29 46				38.9 N, 29.1 E, 33 km (R)	
	KJN ePKP	11 29 40				Turkey	
	H:	11 10 50.0					
		12.3 S, 167.3 E, 50 km		26	NUR eP	02 41 54	
		Santa Cruz Islands			KJN eP	02 41 30	
					SOD eP	02 41 08	
24	NUR eP	20 15 57					
	KJN iP	20 15 51.7 U	1.0 13.1	26	NUR iP	09 54 20.6	1.0 24.6
	H:	20 02 30.6			KJN iP	09 54 40.2 U	1.0 22.9
		9.2 S, 113.5 E, 75 km			i	46.0	
		South of Java			SOD eP	09 54 57	
					H:	09 42 17.8	
25	NUR eP	01 24 49				18.5 S, 26.2 E, 16 km	
	SOD eP	01 23 58				Southern Rhodesia	
	H:	01 15 12					
		62.6 N, 151.0 W, 106 km		26	SOD eP	10 58 12	
		Central Alaska			H:	10 47 20	
25	NUR iP	13 05 44.0	1.0 24.6			43.8 N, 128.0 W, 33 km (R)	
	KJN iP	13 05 19.1	1.0 17.4			Oregon	
	i	23.7 D					
	SOD eP	13 04 59		26	NUR eP	12 34 52	
	H:	12 54 55.7			e	35 10	
		51.5 N, 179.6 W, 33 km (R)			KJN eP	12 34 53	
		Andreanof Islands			i	55.7 U	
					i	35 04.7	
25	NUR iPKP	13 15 21.8 D	0.6 9.0		SOD eP	12 34 42	
	KJN iPKP	13 15 29.1 D	0.8 17.7		H:	12 29 55	
	SOD iPKP	13 15 33.1				63.1 N, 24.3 W, 33 km (R)	
	H:	12 56 23.7				Iceland	
		58.8 S, 25.2 W, 24 km					
		South Sandwich Islands		26	NUR iP	14 20 54.3	1.0 50.0
25	NUR eP	22 07 42			KJN iP	14 20 41.6 D	1.1 50.0
	KJN eP	22 08 05			i	48.0	
	SOD eP	22 08 27			SOD iP	14 20 40.5 D	
	KEV eP	22 08 43			e	56	
	H:	21 57 37.7			H:	14 09 06.3	
		0.8 N, 30.5 E, 33 km (R)				19.8 N, 120.7 E, 12 km	
		Uganda				Philippine Islands	



March				March			
			T	A		T	A
26	NUR eP	15 24 28			27	NUR iP	01 25 59.1
	KJN eP	15 24 08				KJN eP	01 25 48
	SOD eP	15 24 07			27	NUR iP	01 50 04.0 U 0.9 18.5
	H: 15 14 34					i	10.0
	37.8 N, 114.9 E, 33 km (R)					KJN eP	01 50 17
	Northeastern China					i	23.8 U
26	NUR iP	15 28 55.7	0.8	25.9		SOD eP	01 50 40
	i	57.2				H: 01 40 59	
	ePPP	32 36				14.5 N, 56.7 E, 33 km (R)	
	eS	37 00				Arabian Sea	
	eScS	38 50			27	NUR eP	01 54 00 0.9 10.1
	eSS	40 57				KJN eP	01 54 48
	e	43 34				H: 01 49 14	
	eLR	15 46.2				38.0 N, 23.9 E, 179 km	
	KJN iP	15 28 38.0				Greece	
	i	39.8	0.9	42.9	27	NUR eP	02 21 05
	i	44.7				KJN eP	02 20 39
	e	30 29				SOD eP	02 20 19
	ePPP	31 59				H: 02 10 49	
	SOD iP	15 28 34.2				52.7 N, 159.4 E, 33 km (R)	
	i	36.6				Kamchatka	
	i	39.0			27	KJN eP	03 44 37
	e	29 07				SOD iP	03 44 49.7
	ePP	30 40				Moscow:	
	e	33 23				H: 03 31 14	
	H: 15 19 03.2					9.8 S, 108.9 E	
	37.6 N, 115.2 E, 33 km (R)					Java	
	Northeastern China				27	NUR eP	04 35 28
26	NUR eP	15 46 04				KJN iP	04 35 13.2 0.9 8.9
	SOD eP	15 46 36				SOD eP	04 35 10
26	NUR eP	18 24 15				H: 04 24 09.4	
	e	25 44				25.0 N, 122.3 E, 79 km	
	eS	32 20				Taiwan	
	eSS	36 28			27	NUR ePKP	10 57 34 1.0 12.0
	KJN eP	18 23 58				KJN ePKP	10 57 27
	e	25 16				H: 10 38 58.9	
	SOD eP	18 23 53				11.4 S, 166.6 E, 190 km	
	H: 18 14 23					Santa Cruz Islands	
	37.7 N, 114.9 E, 33 km (R)				26	NUR eP	20 22 20
	Northeastern China					KJN eP	20 22 58 1.0 16.4
26	NUR eP	20 22 20				e	23 11
	KJN eP	20 22 58				SOD eP	20 23 25
	e	23 11				H: 20 17 33	
	SOD eP	20 23 25				39.1 N, 21.7 E, 33 km (R)	
	H: 20 17 33					Greece	
	39.1 N, 21.7 E, 33 km (R)				27	KJN eP	13 39 20
	Greece					H: 13 27 13	
						5.4 N, 124.7 E, 376 km	
						Mindanao, P.I.	

March				March			
		T	A		T	A	
27	KJN eP	15 54	22	28	KJN eP	15 49	11
	SOD eP	15 53	57				
	H: 15 44	43.5		28	NUR epP	15 59	26
	60.4 N, 146.1 W,	13 km			KJN eP	15 58	24
	Southern Alaska				epP	59 13	
27	NUR iP	19 06	42.5 U 0.8 17.3	SOD eP	15 58	17	
	i	49.9		epP	59 06		
	eSKS	17 08		H: 15 46	08.9		
	ePS	18 50		17.4 N, 145.6 E,	218 km		
	e	21 08		Mariana Islands			
	eSS	23 46		28	NUR iP	16 15	55.0 D 0.7 28.4
	eSSS	27 08			KJN iP	16 15	37.3 D 0.6 17.8
	KJN iP	19 06	43.2 D 0.9 17.9		SOD iP	16 15	29.7 D
	i	56.0			H: 16 05	02	
	ePP	10 22			28.7 N, 138.8 E,	549 km	
	SOD iP	19 06	35.0		Bonin Islands		
	H: 18 53	41.3		28	NUR eP	16 48	20
	8.9 N, 83.4 W,	40 km					
	Costa Rica			28	NUR eS	18 08	18
27	NUR eP	21 07	13		eSS	15 06	
	KJN eP	21 06	53		H: 17 42	47.6	
	SOD eP	21 06	51		4.0 S, 80.8 W,	52 km	
	H: 20 57	20			Peru-Ecuador border		
	37.7 N, 114.8 E,	33 km (R)		29	NUR eP	00 13	54
	Northeastern China				H: 00 08	43	
28	NUR eP	03 36	25		36.6 N, 26.5 E,	33 km (R)	
	KJN eP	03 36	08		Dodecanese Islands		
	SOD eP	03 36	03	29	NUR eP	01 08	56
	H: 03 26	30					
	37.2 N, 114.7 E,	33 km (R)		29	NUR iP	02 28	27.1 D 0.8 41.8
	Northeastern China				KJN ePKP	02 28	15
28	NUR eP	04 09	34		i	21.7	
	KJN eP	04 10	08		H: 02 08	46.8	
	SOD eP	04 10	37		31.9 S, 178.7 W,	28 km	
	H: 04 04	43			Kermadec Islands		
	38.9 N, 21.5 E,	32 km		29	NUR iP	02 29	50.9 D 0.8 43.2
	Greece				epP	30 15	
28	NUR e	14 32	46		eS	39 52	
	eL	34 32			ePS	40 30	
	KJN eP	14 16	18		eSS	45 20	
28	NUR e	15 47	12		eSSS	49 23	
	ePS	55 52			eLQ	02 53.2	
	e	59 37			eLR	02 57.0	
	eSS	16 01	44		KJN iP	02 29	34.1 D 1.0 98.1
	KJN eP	15 43	10		epP	58	
	H: 15 29	18.4			ePP	32 22	
	3.9 S, 80.9 W,	19 km			iS	39 22.8	
	Peru-Ecuador border				cont.		

March				T	A	March				T	A
	iScS		35.7			SOD	iP	04 27	37.4		
	e		49				e		43		
	SOD	iP	02 29	26.8 D		H:		04 18	38.1		
		epP		51						21.8 N, 62.2 E, 33 km (R)	
		eS	39	08						Arabian Sea	
	H:		02 17	38.5							
						30	NUR	eP	05 57	24	
							KJN	eP	05 56	59	
						H:		05 46	31		
										51.9 N, 170.6 W, 33 km (R)	
										Fox Islands	
29	NUR	eP	06 21	53	1.3	44.3					
		i		54.0							
	KJN	iP	06 21	36.0 D	1.1	29.7					
		e		22 18							
	SOD	iP	06 21	32.8							
	H:		06 12	00.4							
										37.4 N, 114.9 E, 34 km	
										Northeastern China	
29	NUR	ePKP	11 01	30							
	KJN	ePKP	11 01	21	0.9	8.9					
		e		49							
	H:		10 42	15.1							
										20.0 S, 175.3 W, 95 km (R)	
										Tonga Islands	
29	KJN	eP	15 54	33							
	SOD	eP	15 54	30							
	H:		15 44	58							
										37.5 N, 115.3 E, 33 km (R)	
										Northeastern China	
29	KJN	eP	17 34	35							
	H:		17 24	13							
										0.8 N, 30.4 E, 33 km (R)	
										Uganda	
29	NUR	iP	23 07	58.0							
	KJN	eP	23 07	34							
	H:		22 57	16							
										53.8 N, 165.7 W, 33 km (R)	
										Fox Islands	
30	NUR	eP	04 27	05							
		i		13.0 U	1.2	54.2					
		ePP	28	50							
		e	29	07							
		eS	33	50							
		eSS	36	56							
	KJN	eP	04 27	17							
		i		22.0							
		ePP	29	13							
										cont.	
	SOD	iP	04 27	37.4							
		e		43							
	H:		04 18	38.1							
										21.8 N, 62.2 E, 33 km (R)	
										Arabian Sea	
30	NUR	eP	05 57	24							
	KJN	eP	05 56	59							
	H:		05 46	31							
										51.9 N, 170.6 W, 33 km (R)	
										Fox Islands	
30	NUR	eP	06 53	15							
	KJN	eP	06 53	06							
30	NUR	eP	08 26	31	1.0	14.0					
	KJN	iP	08 26	13.5	0.7	8.9					
	H:		08 15	03.7							
										29.2 N, 131.3 E, 20 km	
										Ryukyu Islands	
30	NUR	eP	12 50	59							
		eS	13 00	05							
		eScS		01 00							
		eSS		04 30							
		eLQ	13 07	.7							
	KJN	eP	12 50	41	0.8	10.8					
		i		46.0							
		e		51 19							
	SOD	eP	12 50	15							
		i		20.0							
	H:		12 40	01.0							
										49.8 N, 129.7 W, 33 km	
										Vancouver Island	
30	NUR	iP	17 35	54.8	0.8	8.6					
		e		36 09							
30	NUR	eP	17 43	01							
	KJN	eP	17 42	42							
	SOD	eP	17 42	41							
	H:		17 31	29.4							
										24.1 N, 122.7 E, 38 km	
										Taiwan	
30	NUR	eP	18 57	20	1.0	14.0					
	KJN	iP	18 56	58.5 D	1.0	25.1					
	SOD	eP	18 56	47							
	H:		18 46	19.0							
										39.8 N, 143.2 E, 15 km	
										Honshu, Japan	



March				T	A	March				T	A			
30	NUR	iPKP	21 00	29.1	0.9	33.6	31	NUR	iP	23 44	58.8 U	1.0	214.0	
		i		44.0 D					iPP	46	23.6			
	KJN	iPKP	21 00	18.1 D					eS	50	26			
		i		26.8					esS	51	44			
		i		39.0					e	52	34			
	H: 20 40 44.1								eSS	53	44			
	32.5 S, 178.0 W, 16 km							KJN	iP	23 44	59.0 U			
	South of Kermadec Islands								i	45	15.6			
									iPP	46	22.8			
30	NUR	eP	21 53	10					eS	50	35			
	KJN	eP	21 52	58				SOD	iP	23 45	15.0 U			
31	NUR	eP	01 33	35					i		31.6			
	KJN	eP	01 33	24					ePP	46	45			
	H: 23 38 00.5								36.4 N, 70.8 E, 200 km					
	17.3 S, 167.8 E, 34 km								Hindu Kush					
	New Hebrides Islands													
31	NUR	eP	14 42	05										
	KJN	eP	14 41	54										
31	NUR	iPKP	14 53	08.5	0.8	25.9								
	KJN	iPKP	14 52	58.2	1.0	54.5								
	H: 14 33 24.8													
	33.1 S, 178.5 W, 33 km (R)													
	South of Kermadec Islands													
31	NUR	eP	19 04	58										
	KJN	eP	19 04	47										

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M. T. Porkka  
Aili Huovila

April

					T	A
1	NUR	iP	01 15 16.5		1.0	28.0
	KJN	iP	01 14 30.0		1.0	49.1
	SOD	iP	01 13 50.4			
		eS	15 30			
	H: 01 11 39.7					
	74.0 N, 8.2 E, 33 km (R)					
	Greenland Sea					
1	NUR	iP	03 01 46.6		0.8	30.2
		i	02 03.0			
	KJN	iP	03 01 21.2 U		0.8	27.7
		e	31			
	SOD	iP	03 01 01.8			
		e	25			
	H: 02 51 08.2					
	51.7 N, 176.4 E, 73 km (R)					
	Rat Islands					
1	NUR	eP	03 48 16			
		eSS	04 00 16			
	KJN	eP	03 47 35			
	SOD	eP	03 47 19			
	H: 03 38 38					
	64.6 N, 153.0 W, 33 km (R)					
	Central Alaska					
1	NUR	ePS	04 02 50			
		eSS	08 30			
		eSSS	13 04			
	H: 03 33 28.9					
	53.5 S, 3.1 W, 33 km (R)					
	South Atlantic Ridge					
1	NUR	eP	13 19 54			
		eS	23 50			
	KJN	iP	13 20 29.8		1.0	15.3
		e	56			
	SOD	iP	13 20 58.7			
	H: 13 15 05.4					
	38.7 N, 21.5 E, 43 km					
	Greece					
1	NUR	iPKP	16 10 27.8 D		0.7	12.9
	H: 15 51 26.0					
	29.0 S, 178.8 W, 283 km					
	Kermadec Islands					
2	NUR	e	02 05 55			
		ePP	09 10			
		eSKS	15 50			
		eS	16 06			
		eSS	22 26			

cont.

April

					T	A
	SOD	eP	02 05 21			
		ePP	08 41			
	H: 01 52 38.3					
	16.5 N, 97.4 W, 42 km					
	Oaxaca, Mexico					
2	NUR	eP	15 13 19			
	KJN	eP	15 13 00			
	H: 15 02 14					
	35.2 N, 138.6 E, 182 km					
	Honshu, Japan					
2	NUR	eP	15 45 42			
2	NUR	iP	22 54 22.6 U		0.7	41.3
	KJN	iP	22 54 01.3 U		0.8	68.4
		e	46			
	SOD	iP	22 53 50.2 U			
	H: 22 43 21.4					
	38.7 N, 141.9 E, 39 km					
	Honshu, Japan					
3	NUR	iP	04 54 47.0 U		0.9	184.8
		e	57 16			
		iPP	22.0			
		e	55			
		ePPP	58 54			
		eS	05 03 52			
		eSS	08 28			
	KJN	iP	04 54 26.5 U			
		i	38.0			
		i	56 12.0			
		iPP	48.0			
		i	57.0			
		e	59 11			
		eS	05 03 13			
	SOD	iP	04 54 16.0 U			
		iPP	56 36.4			
	H: 04 43 41.1					
	36.7 N, 140.8 E, 68 km					
	Honshu, Japan					
3	NUR	eP	04 56 57			
	KJN	iP	04 57 19.4			
	SOD	iP	04 57 18.5			
3	NUR	eP	05 17 27			
	SOD	eP	05 18 18			
	H: 05 11 39					
	36.2 N, 2.9 E, 33 km (R)					
	Algeria					

April

			T	A	
3	NUR	eP	11 41 14		
		eS	45 12		
	KJN	eP	11 41 50		
		i	52.2	1.2	55.0
		e	42 35		
		eS	46 11		
	SOD	iP	11 42 19.7		
	H: 11 36 24.8				
	39.0 N, 21.5 E, 25 km				
	Greece				
3	NUR	eP	14 57 51	0.8	8.6
	SOD	eP	14 57 38		
3	SOD	eP	19 41 06		
	H: 19 28 39				
	18.8 N, 103.0 W, 147 km				
	Michoacan, Mexico				
3	NUR	eP	23 06 17		
		e	26		
		eS	08 54		
	KJN	iP	23 05 50.4	0.6	12.3
		e	06 19		
		eS	08 14		
	SOD	iP	23 05 16.2		
	H: 23 02 39				
	71.9 N, 2.4 W, 33 km (R)				
	Jan Mayen Island				
4	NUR	eP	01 59 07		
	KJN	eP	01 58 39		
	H: 01 49 04.7				
	55.9 N, 164.1 E, 45 km (R)				
	Komandorsky Islands				
4	NUR	eP	02 28 23		
	KJN	eP	02 28 18		
	SOD	eP	02 28 27		
	H: 02 17 18.1				
	11.8 N, 92.6 E, 33 km (R)				
	Andaman Islands				
4	NUR	eP	03 02 42		
		e	48		
	KJN	iP	03 02 39.2 D	1.0	19.6
		i	46.0		
	SOD	iP	03 02 48.0 U		
		i	54.5		
	H: 02 51 39.0				
	12.0 N, 92.7 E, 33 km (R)				
	Andaman Islands				

April

				T	A
4	NUR	ePKP	05 57 36		
		i	42.3	1.2	48.5
		ePP	06 00 42		
		ePPP	03 54		
	KJN	ePKP	05 57 34		
	SOD	ePKP	05 57 34		
	H: 05 37 50				
	54.7 S, 146.2 E, 33 km (R)				
	West of Macquarie Island				
4	NUR	eP	06 53 17		
		i	20.4	1.2	34.2
		eS	07 02 16		
		eScS	03 25		
		eSS	07 07		
	KJN	eP	06 53 13		
		i	15.1	0.9	12.5
		e	54 13		
		eS	07 02 11		
	SOD	iP	06 53 22.1		
		i	24.0		
	H: 06 42 13.9				
	12.1 N, 92.7 E, 33 km (R)				
	Andaman Islands				
4	NUR	eP	09 33 16		
		ePcP	34 06		
	SOD	eP	09 32 35		
	H: 09 23 21				
	50.7 N, 143.4 E, 45 km (R)				
	Sakhalin Island				
4	NUR	eP	17 59 52		
	SOD	eP	17 59 38		
4	NUR	eP	19 16 45		
4	NUR	eP	20 02 54		
		ePP	06 26		
	SOD	eP	20 02 40		
	H: 19 50 07.6				
	13.8 N, 89.7 W, 108 km				
	El Salvador				
4	NUR	eP	22 59 54		
4	NUR	eP	23 32 30		
		e	33 10		
	SOD	eP	23 31 50		
4	NUR	ePKP	23 51 13	1.1	9.5
	H: 23 32 22.3				
	10.8 S, 164.3 E, 37 km				
	Santa Cruz Islands				



April

					T	A
6	NUR	iP	22 39 05.0	U	0.8	73.5
		i	12.7			
		e	34			
	KJN	iP	22 38 41.0	U	1.0	54.5
		i	50.8			
	SOD	iP	22 38 18.1	U		
		i	22.8			
	KEV	iP	22 38 00.6	D	0.9	87.4
			H: 22 28 38.7			
			56.6 N, 154.5 W, 33 km (R)			
			Kodiak Island			
6	KJN	eP	23 09 24			
	SOD	eP	23 09 29			
			H: 22 56 05			
			9.6 S, 107.6 E, 33 km (R)			
			South of Java			
7	NUR	iP	03 30 46.9		0.9	24.1
		ePPP	31 26			
		eS	34 52			
	KJN	iP	03 31 21.1		0.9	11.6
	SOD	iP	03 31 50.5			
			H: 03 25 46.3			
			37.8 N, 21.1 E, 36 km			
			Southern Greece			
7	NUR	eP	04 03 24			
	KJN	eP	04 03 01			
	SOD	eP	04 02 46			
			H: 03 52 37			
			43.8 N, 147.5 E, 25 km (R)			
			Kurile Islands			
7	NUR	iP	09 54 01.3	U	1.1	107.4
		eS	10 03 24			
	KJN	iP	09 53 45.2	U	1.0	71.9
		i	56.2			
		e	54 33			
	SOD	iP	09 53 41.0			
		i	54 04.0			
	KEV	iP	09 53 35.0		1.0	48.0
		i	46.2			
		eS	10 02 36			
		eLR	10 16.0			
			H: 09 42 32.1			
			26.1 N, 127.4 E, 46 km (R)			
			Ryukyu Islands			
7	NUR	eP	13 23 22		0.8	8.8
	KJN	iP	13 23 27.1		0.9	7.1
7	NUR	eP	13 30 24			
	KJN	iP	13 30 15.0			
	SOD	eP	13 30 14			

April

					T	A
7	NUR	ePKP	14 55 49			
	KJN	ePKP	14 55 51			
			H: 14 36 29			
			24.1 S, 175.2 W, 33 km (R)			
			South of Tonga Islands			
7	NUR	eP	19 43 23			
			BCIS:			
			H: 19 38 59			
			44.2 N, 7.4 E			
			Italy			
7	NUR	eP	22 19 24			
			H: 22 08 47			
			52.3 N, 174.2 E, 33 km (R)			
			Near Islands			
8	NUR	iP	00 06 23.6			
	KJN	eP	00 06 21		1.0	10.9
		e	38			
	SOD	iP	00 06 28.0			
		e	07 06			
8	NUR	iP	01 57 04.0			
		i	09.0		0.9	25.8
		ePP	59 20			
		ePPP	02 01 00			
		eS	05 16			
		ePPS	06 06			
		eSS	09 36			
		eP'P'	26 11			
		eLQ	02 14.5			
		eLR	02 16.2			
	KJN	eP	01 56 39			
		i	49.0		0.7	15.1
		i	57 16.3			
		iPcP	38.5			
		ipPcP	46.0			
		i	59 27.3			
		iScP	02 01 29.6			
		e	57			
		eP'P'	26 08			
	SOD	iP	01 56 20.6			
		e	46			
		iPcP	57 30.0			
		eP'P'	02 26 01			
	KEV	eP	01 56 08			
		i	12.0			
		i	45.0			
		ePP	58 12			
		ePPP	59 26			
		eS	02 03 27			

cont.



April				April			
			T	A		T	A
8	NUR eP	23 21 42			9	NUR eP	14 42 45
	KJN iP	23 21 31.5 D	1.0	16.4		KJN eP	14 42 26
	SOD eP	23 21 08				H: 14 31 58	
	KEV eP	23 21 07				32.8 N, 137.6 E, 369 km	
	H: 23 17 11					South of Honshu, Japan	
	67.5 N, 18.7 W, 33 km (R)						
	Iceland						
8	NUR iP	23 57 25.8			9	NUR iPKP	15 08 20.0 D 0.9 43.0
	e	37				KJN iPKP	15 08 13.2 D 0.9 39.3
	KJN eP	23 57 04				i	16.1
	e	12				SOD iPKP	15 08 09.3 D
	SOD eP	23 56 41				KEV iPKP	15 08 06.2 D 0.8 20.2
	H: 23 46 50.8					H: 14 49 22.8	
	52.3 N, 173.5 E, 45 km (R)					14.1 S, 166.7 E, 47 km	
	Near Islands					New Hebrides Islands	
9	NUR iP	02 47 23.6	1.4	50.4	9	NUR eP	19 01 46
	KJN iP	02 47 23.3	1.2	22.4		i	52.4 1.0 22.6
	SOD iP	02 47 15.0				KJN eP	19 01 21 0.7 6.2
	H: 02 34 23.0					i	29.0 0.8 16.1
	9.4 N, 84.2 W, 40 km					SOD iP	19 00 57.2 U
	Costa Rica					i	01 04.8
						H: 18 51 45.0	
9	NUR iP	02 55 10.0 D 0.9 39.6				60.2 N, 147.1 W, 34 km	
	e	21				Southern Alaska	
	ePP	58 46			9	NUR eP	19 19 45
	eSKS	03 05 50				KJN eP	19 20 07 0.7 5.5
	ePS	07 14				SOD eP	19 20 31
	eSS	12 05				H: 19 11 11	
	KJN iP	02 55 10.4 D 0.8 12.3				14.4 N, 40.8 E, 33 km (R)	
	i	22.1				Ethiopia	
	eSKS	03 05 41			9	NUR eP	20 13 47 1.0 24.6
	SOD iP	02 55 02.0 D				eS	24 30
	KEV iP	02 54 57.3 1.5 102.7				eSS	30 30
	i	55 20.6				KJN iP	20 13 38.0 1.0 25.1
	ePP	58 26				e	52
	eSKS	03 05 27				e	15 44
	ePS	06 59				eSKS	23 56
	eSS	12 08				eS	24 12
	H: 02 42 08.7					e	18
	9.6 N, 84.1 W, 30 km					SOD iP	20 13 37.0
	Costa Rica					KEV eP	20 13 29
9	NUR iP	07 26 42.3 0.8 8.8				eS	24 12
	KJN eP	07 26 18				ePS	25 46
	H: 07 16 16					eSS	30 28
	56.8 N, 152.1 W, 33 km (R)					H: 20 00 58.5	
	Kodiak Island					5.4 N, 126.0 E, 133 km	
						Mindanao, P.I.	
9	NUR eP	08 58 42			9	NUR iP	20 19 05.0 U 0.9 79.1
	SOD eP	08 57 54				i	11.4
	H: 08 48 15					KJN iP	20 18 41.8 U 1.0 54.5
	56.7 N, 152.4 W, 33 km (R)					i	47.0
	Kodiak Island						cont.







April						April				
				T	A					
						T			A	
		eSS	16 10				epPKP	48 20		
		e	18 26				eSKP	53		
		eSSS	21 00				ePKS	49 44		
		e	24 32			SOD	iPKP	04 46 07.6		
		H: 23 37 42.1					eSKP	48 46		
		38.1 S, 73.0 W, 44 km					ePKS	49 34		
		Central Chile				KEV	ePKP	04 46 04		
							eSKP	48 37		
13	NUR	eP	00 42 22	1.1	14.3		H: 04 27 54.8			
	KJN	eP	00 42 02				23.6 S, 179.9 W, 550 km (R)			
	SOD	iP	00 41 34.6				South of Fiji Islands			
		H: 00 31 58								
		56.8 N, 151.8 W, 33 km (R)				13	KJN	eP	13 20 13	
		Kodiak Island					SOD	eP	13 19 58	
							H: 13 07 36			
13	NUR	eP	02 24 28				25.6 N, 109.3 W, 33 km (R)			
	KJN	iP	02 24 45.0	1.1	16.2		Gulf of California			
	SOD	eP	02 25 12							
	KEV	eP	02 25 24			13	KJN	eP	18 06 43	
		H: 02 14 20								
		1.1 N, 29.9 E, 23 km								
		Republic of the Congo				14	KJN	eP	02 23 24	
							H: 02 10 32.8			
							13.1 N, 145.0 E, 49 km			
							Mariana Islands			
13	NUR	eP	03 07 18			14	NUR	eP	14 25 39	
	KJN	eP	03 07 19				KJN	iP	14 25 26.0 D	1.1 20.3
	SOD	eP	03 07 35				SOD	eP	14 25 07	
		H: 03 00 19					KEV	eP	14 24 51	
		36.5 N, 70.8 E, 179 km								
		Hindu Kush								
13	NUR	ePKP	03 54 13	1.2	36.3					
		e	22			14	KJN	eP	16 45 18	
	KJN	iPKP	03 54 19.0 D	1.2	39.6		SOD	eP	16 45 23	
		i	27.7				H: 16 33 28.8			
		ePP	56 22				4.8 N, 96.2 E, 30 km			
		eSKP	57 36				Northern Sumatra			
	SOD	iPKP	03 54 18.5			14	NUR	eP	17 38 33	
	KEV	ePKP	03 54 20				KJN	eP	17 38 23	
		ePP	56 26			14	SOD	eP	18 05 02	
		ePKS	57 40			14	NUR	eP	18 57 17	
		e	04 04 36				KJN	eP	18 57 49	
		ePS	06 18				SOD	eP	18 58 17	
		eSS	13 50				KEV	eP	18 58 39	
		H: 03 35 16.3					H: 18 51 46			
		38.2 S, 73.2 W, 40 km					34.5 N, 24.0 E, 33 km (R)			
		Central Chile					Crete			
13	NUR	ePKP	04 46 12							
		e	19	1.0	29.4					
		epPKP	48 29							
		eSKP	49 05							
		ePKS	55							
	KJN	ePKP	04 46 02			14	NUR	eP	21 13 14	U 0.9 26.2
		i	12.1 U	0.8	20.0		e	14 14		
		cont.					ePP	39		
							e	20 28		
							cont.			

April						April								
				T	A					T	A			
	KJN	iP	21 13	13.2 U	0.8	15.4	15	SOD	eP	06 12	35			
		i		24.7					H:	06 01	32			
		i		31.5						31.4 N,	143.4 E,	50 km (R)		
		i	14	17.2						South of Honshu, Japan				
		ePP		31			15	KJN	eP	07 59	33			
		i	17	34.0										
		e	20	31			15	NUR	eP	18 10	43	0.9	19.7	
	SOD	iP	21 13	28.3				KJN	iP	18 10	23.0 U	0.6	28.1	
		e	14	30					i		34.8			
		ePP		49				SOD	iP	18 10	12.4 U			
	KEV	eP	21 13	37				KEV	iP	18 10	03.0	0.9	10.1	
		ePP	15	04					H:	17 59	35.0			
		H:	21 06	17.4						36.6 N,	140.9 E,	53 km		
			38.9 N, 70.6 E, 33 km (R)							Honshu, Japan				
			Afghanistan-USSR border											
14	KJN	eP	22 00	58			16	NUR	iP	01 37	39.6 U	1.2	175.8	
	SOD	eP	22 00	59					ePP		39 56			
15	KJN	eP	00 36	30					eS		46 08			
	SOD	eP	00 36	29					eScS		47 03			
		H:	00 24	53					eSS		50 10			
			18.9 N, 120.5 E, 26 km							eP'P'	02 06	43		
			Luzon, P.I.					KJN	iP	01 37	15.2 U	1.3	199.6	
15	KJN	eP	01 09	16	0.9	8.9			i		24.0			
15	SOD	iP	02 27	49.7					e		39 41			
15	KJN	eP	03 00	53					eS		45 23			
	SOD	eP	03 00	51					ePS		38			
		H:	02 48	03.2					e		46 22			
			5.3 N, 126.6 E, 60 km							eScS		57		
			Mindanao, P.I.							eP'P'	02 06	51		
15	KJN	iP	03 18	42.6 D	1.1	27.0		SOD	iP	01 36	51.5 U			
	SOD	eP	03 19	04					i		59.3			
	KEV	eP	03 19	19	1.0	14.4			ePP		38 57			
		H:	03 08	16.3					eS		44 40			
			0.9 N, 29.9 E, 33 km (R)							eScS		46 28		
			Republic of the Congo							eP'P'	02 06	55		
15	KJN	eP	03 52	09				KEV	iP	01 36	34.0 U	1.3	153.5	
	SOD	eP	03 52	10					i		49.6			
		H:	03 39	12.9					i		38 04.5			
			0.2 S, 124.1 E, 152 km							ePP		40		
			Molucca Sea							ePPP		40 00		
15	NUR	eP	05 08	51					eScP		41 46			
	KJN	eP	05 08	26	1.2	17.2			eS		44 10			
	SOD	eP	05 08	07					eScS		46 36			
		H:	04 58	06					eSS		47 50			
			51.1 N, 174.7 E, 33 km (R)							e		48 23		
			Near Islands							eLR	01 53.0			
									H:	01 27	15.3			
										57.0 N,	153.6 W,	33 km (R)		
										Kodiak Island				
16	NUR	eP	02 37	31										
	KJN	iP	02 37	21.0	0.8	35.4								

cont.

April

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i 23.9  
epP 38 21  
SOD iP 02 37 21.4  
KEV eP 02 37 20  
H: 02 24 32.6  
0.1 S, 123.0 E, 198 km  
Northern Celebes

16 NUR eP 04 51 09  
KJN eP 04 50 44  
SOD eP 04 50 21  
e 29  
KEV eP 04 50 04  
H: 04 40 45  
57.0 N, 153.7 W, 33 km (R)  
Kodiak Island

16 NUR eP 07 24 04  
KJN eP 07 24 09  
SOD eP 07 24 05  
e 17  
KEV eP 07 24 04  
H: 07 12 37.1  
18.3 N, 62.0 W, 30 km  
Leeward Islands

16 NUR iP 10 24 45.3 U 1.3 40.0  
i 57.2  
ePP 27 23  
eS 34 04  
eSS 38 30  
KJN iP 10 24 25.1 U 1.4 97.2  
i 37.2  
ePP 26 54  
SOD iP 10 24 15.4 U  
i 27.3  
ePP 26 36  
KEV iP 10 24 04.5 1.1 19.0  
eS 32 52  
H: 10 13 28  
35.0 N, 141.5 E, 63 km  
Honshu, Japan

16 NUR iP 11 43 46.4 U 0.9 16.4  
i 55.0  
KJN iP 11 43 49.0 D 0.9 14.3  
i 58.0  
SOD iP 11 43 41.6 D  
i 50.3  
i 54.0  
KEV iP 11 43 38.5 0.9 13.4  
i 47.4  
H: 11 32 01.1  
19.0 N, 70.4 W, 46 km  
Dominican Republic

April

T A

16 NUR iP 13 20 39.6 0.8 11.3  
KJN eP 13 20 15  
SOD iP 13 19 52.0  
H: 13 10 15  
57.0 N, 153.6 W, 33 km (R)  
Kodiak Island

16 NUR eP 14 44 51  
16 NUR eP 14 53 23 1.1 23.3  
KJN iP 14 53 47.1 D 1.1 47.3  
i 55.4  
SOD iP 14 54 09.2 D  
KEV iP 14 54 24.0 D 1.0 30.0  
i 55 16.0  
H: 14 43 20.5  
0.8 N, 29.9 E, 33 km (R)  
Republic of the Congo

16 NUR ePKP 15 41 43  
i 54.5 0.9 44.3  
iSKP 44 43.0  
ePKS 45 28  
KJN ePKP 15 41 34  
i 46.7 0.9 79.5  
iSKP 44 32.0  
iPKS 45 16.2  
SOD iPKP 15 41 42.3  
iSKP 44 23.5  
KEV iPKP 15 41 39.6  
ePKS 45 01  
H: 15 23 29.3  
21.1 S, 178.6 W, 511 km (R)  
Fiji Islands

16 NUR eP 15 57 55  
KJN eP 15 57 57  
e 59 01  
Moscow:  
H: 15 50 54  
39.0 N, 70.5 E  
Pamir

16 NUR eP 18 23 33  
KJN eP 18 23 34

16 KJN eP 22 59 40  
SOD eP 22 59 17  
H: 22 49 38.9  
56.7 N, 136.2 W, 5 km  
Southeastern Alaska

17 NUR eP 00 28 24

April				April			
	T	A		T	A		
17	KJN	eP	01 32 25				
	H:		01 21 40				
			36.6 N, 138.3 E, 33 km (R)				
			Honshu, Japan				
17	NUR	iP	05 39 32.0				
	KJN	iP	05 39 12.0				
	SOD	eP	05 39 03				
	H:		05 28 10.8				
			33.6 N, 141.0 E, 84 km				
			Honshu, Japan				
17	NUR	iP	06 11 12.1	1.0	9.8		
	KJN	iP	06 10 58.6 D	0.6	13.7		
		e	11 05				
	SOD	iP	06 10 56.7 D				
	KEV	iP	06 10 52.8	0.7	10.3		
	H:		05 59 46				
			20.7 N, 122.0 E, 194 km				
			Philippine Islands				
17	NUR	eP	07 55 07				
	KJN	eP	07 55 25				
17	NUR	ePKP	13 28 08				
	H:		13 09 52.7				
			26.0 S, 178.4 E, 650 km				
			South of Fiji Islands				
17	NUR	iP	14 09 32.8				
	KJN	eP	14 09 20				
	H:		14 01 56.5				
			43.9 N, 87.8 E, 33 km (R)				
			Northern Sinkiang, China				
17	NUR	eP	16 57 30				
	KJN	eP	16 57 06				
	SOD	eP	16 56 51				
	H:		16 46 50.9				
			54.2 N, 133.5 W, 33 km (R)				
			Queen Charlotte Islands				
18	NUR	eP	00 03 37				
		e	04 06				
	KJN	eP	00 03 55				
	SOD	eP	00 04 07				
	KEV	eP	00 04 10				
18	NUR	iP	08 23 13.5 D	1.1	38.1		
		i	17.7				
	ePcP		24 29				
	eS		30 23				
	eSS		33 57				
	eLR		08 38.5				
							cont.
	KJN	iP	08 23 31.9 D	1.1	51.3		
		i	47.6				
	ePcP		24 35				
	e		27 21				
	ePcS		28 37				
	eS		31 02				
	SOD	iP	08 23 55.2 D				
	KEV	iP	08 24 10.0	1.2	96.9		
		i	13.4				
		i	32.0				
		e	25 51				
		eS	32 16				
		e	35 40				
	H:		08 14 18.8				
			12.9 N, 48.3 E, 57 km				
			Eastern Gulf of Aden				
18	NUR	eP	08 42 02				
	KJN	eP	08 42 36				
	SOD	eP	08 43 05				
18	NUR	eP	10 04 12				
		i	15.0				
	KJN	eP	10 04 47				
	SOD	eP	10 05 17				
	BCIS:						
	H:		09 59 25				
			39.0 N, 21.9 E				
			Greece				
18	NUR	eP	21 15 41				
18	NUR	eP	22 46 22				
	KJN	iP	22 46 04.1	0.8	5.4		
	H:		22 35 20				
			36.7 N, 137.9 E, 33 km (R)				
			Honshu, Japan				
19	NUR	eP	01 18 27				
		i	29.3	0.9	16.8		
	KJN	eP	01 18 46				
		i	48.6	0.8	24.6		
	SOD	eP	01 19 16				
	H:		01 13 36.2				
			42.8 N, 45.2 E, 17 km				
			Eastern Caucasus				
19	NUR	eP	02 48 16				
19	NUR	ePKP	07 37 37				
	H:		07 18 32				
			27.8 S, 178.1 W, 201 km				
			Kermadec Islands				
19	NUR	eP	12 31 57				

April						April			
				T	A				
19	NUR eP	18 10 31				20	NUR eP	03 08 19	
	KJN iP	18 10 20.2	1.0	16.4			KJN iP	03 08 02.1	1.0 12.0
	SOD eP	18 10 17					SOD iP	03 07 55.1	
	H:	17 57 32					KEV eP	03 07 47	
		5.9 N, 126.9 E, 70 km					H:	02 55 30	
		Mindanao, P.I.						19.0 N, 146.7 E, 33 km (R)	
								Mariana Islands	
19	NUR eP	20 36 51				20	KJN eP	03 09 53	
	KJN eP	20 36 28							
	H:	20 26 42.5							
		53.1 N, 159.3 E, 62 km (R)							
		Kamchatka							
19	NUR iP	23 10 20.3				20	KJN eP	04 11 07	
	i	23.3					H:	03 58 49	
	iPKP	11 12.2						19.4 N, 147.0 E, 149 km	
	KJN ePKP	23 10 10						Mariana Islands	
	H:	22 51 00.9							
		31.7 S, 179.5 W, 169 km				20	NUR eP	05 46 43	
		Kermadec Islands					KJN iP	05 46 25.2	1.2 18.9
20	NUR iP	02 45 43.9	1.0	12.3			SOD eP	05 46 18	
	ePP	49 16					KEV eP	05 46 12	
	eS	56 14					H:	05 33 53.1	
	ePS	57 36						19.0 N, 146.8 E, 39 km	
	eSS	03 02 28						Mariana Islands	
	eSSS	05 58				20	NUR eP	06 13 31	
	KJN iP	02 45 27.0	1.1	28.4			e	18 52	
	e	46 33					eS	24 10	
	SOD iP	02 45 19.3					KJN eP	06 13 12	
	e	46 22					i	15.5	0.8 18.5
	KEV iP	02 45 16.2					SOD eP	06 13 04	
	ePP	48 10					i	08.3	
	eS	55 12					KEV iP	06 13 03.4	0.8 14.1
	e	58 30					i	05.9	
	eSS	03 00 14					e	18 30	
	eSSS	04 12					eS	23 12	
	H:	02 32 49.7					ePPS	24 42	
		18.8 N, 147.0 E, 12 km					H:	06 00 39.4	
		Mariana Islands						18.9 N, 146.8 E, 33 km (R)	
								Mariana Islands	
20	NUR eP	02 53 37				20	NUR eP	06 55 47	
	KJN eP	02 53 20	1.0	9.8			KJN iP	06 55 32.1	0.9 10.7
	SOD eP	02 53 13					SOD iP	06 55 25.0	
	H:	02 40 44					H:	06 43 00.0	
		19.0 N, 147.0 E, 10 km						18.8 N, 146.8 E, 47 km	
		Mariana Islands						Mariana Islands	
20	NUR eP	02 59 16				20	KJN eP	06 58 21	
	KJN eP	02 58 57					SOD eP	06 58 11	
	SOD eP	02 58 50					H:	06 45 46	
20	KJN eP	03 02 34						18.9 N, 146.9 E, 40 km	
	SOD eP	03 02 35						Mariana Islands	

April				April			
		T	A			T	A
20	KJN eP 13 14 06 H: 13 01 35.4 19.0 N, 146.9 E, 48 km Mariana Islands			20	KJN eP 20 06 45		
20	NUR eP 14 14 18 KJN iP 14 14 01.1 0.9 11.6 SOD eP 14 13 53 H: 14 01 26.7 18.8 N, 146.9 E, 28 km Mariana Islands			20	KJN eP 20 40 31 H: 20 27 59.2 18.9 N, 146.8 E, 42 km Mariana Islands		
20	NUR eP 14 41 18 KJN iP 14 41 03.1 1.0 12.0 SOD eP 14 40 56 H: 14 31 26 37.1 N, 114.8 E, 33 km (R) Northeastern China			20	NUR iP 21 46 30.4 0.7 10.6 KJN eP 21 47 08 H: 21 41 19 36.5 N, 21.5 E, 33 km (R) Southern Greece		
20	SOD eP 16 19 39			21	NUR iP 04 04 22.0 U 0.6 21.8 e 59 e 05 10 i 18.0 KJN iP 04 04 08.7 U 0.6 43.8 e 41 i 07 07.8 SOD iP 04 04 16.1 U KEV iP 04 04 19.0 0.5 12.9 e 05 07 H: 03 57 58.0 49.8 N, 78.0 E, 0 km (R) Eastern Kazakh SSR		
20	NUR eP 16 39 08 e 21 e 41 29 ePP 42 40 KJN iP 16 38 53.0 U 0.8 19.2 SOD iP 16 38 45.3 e 41 45 KEV eP 16 38 37 e 42 i 59.4 H: 16 26 21.2 18.8 N, 146.9 E, 55 km Mariana Islands			21	NUR iP 06 50 55.3 1.0 22.6 i 51 05.0 eS 55 22 KJN iP 06 51 27.6 D 1.0 28.3 SOD iP 06 51 56.7 KEV eP 06 52 18 1.0 23.5 H: 06 45 29 34.8 N, 26.0 E, 52 km Crete		
20	NUR iP 16 47 15.8 0.6 34.6 i 22.5 e 48 40 ePcP 50 58 eS 51 26 eLQ 16 52.9 KJN iP 16 47 30.1 U 0.8 88.4 eS 52 02 SOD eP 16 47 57 i 48 08.0 i 26.2 e 53 18 KEV eP 16 48 14 e 48 eS 53 06 e 54 14 eLQ 16 56.9 H: 16 42 03.7 41.7 N, 48.2 E, 19 km Eastern Caucasus			21	KJN eP 07 26 12		
				21	NUR iP 09 28 54.0 0.5 6.8 KJN iP 09 28 38.0 0.5 5.9 SOD iP 09 28 31.5 H: 09 16 58 21.7 N, 142.8 E, 326 km Mariana Islands		
				21	NUR eP 09 42 56 KJN eP 09 42 57 SOD eP 09 43 01 H: 09 31 14 4.9 N, 95.1 E, 66 km Northern Sumatra		

April				April			
		T	A			T	A
25	KJN eP	08 15 01					
	SOD eP	08 14 55			SOD iP	23 29 43.6	
					ePP	30 43	
25	NUR eP	09 33 35			KEV eP	23 29 50	
	KJN eP	09 33 56			H: 23 22 52.6		
	SOD eP	09 34 09			41.2 N, 69.3 E, 33 km (R)		
	H: 09 22 05				Kirgiz, SSR		
	6.9 S, 11.7 W, 33 km (R)						
	Ascension Island						
25	NUR ePKP	11 00 08			26	NUR eP	02 50 27
	i	18.7	1.0	26.7	KJN eP	02 50 03	
	iSKP	03 01.4			SOD eP	02 49 41	
	iPKS	52.4			H: 02 39 23		
KJN	ePKP	10 59 58			52.9 N, 168.1 W, 55 km		
	i	11 00 11.6			Fox Islands		
	iSKP	02 49.5			26	NUR eP	10 55 38
	iPKS	03 41.0			KJN iP	10 55 32.2	1.2 17.2
SOD	ePKP	11 00 04			SOD iP	10 55 36.3	
	e	18			H: 10 45 33		
	iSKP	02 40.3			24.8 N, 96.5 E, 33 km (R)		
KEV	ePKP	11 00 02			Burma		
	ePKS	03 25			26	NUR eP	17 24 20
	H: 10 41 58.2				26	NUR iSKP	19 54 56.7
	21.0 S, 178.7 W, 561 km (R)				KJN ePKP	19 52 12	
	Fiji Islands				eSKP	54 45	
25	KJN iP	12 14 53.0	0.7	7.5	SOD iSKP	19 54 35.5	
	SOD eP	12 14 54			H: 19 34 00		
	H: 12 02 00				20.0 S, 178.3 W, 551 km		
	1.0 N, 122.5 E, 112 km				Fiji Islands		
	Northern Celebes				26	NUR eP	20 52 15
25	NUR eP	18 19 46			KJN eP	20 52 04	
	SOD eP	18 20 09			26	NUR ePKP	23 26 09
	H: 18 11 55				eSKP	29 06	
	30.1 N, 69.9 E, 29 km				KJN ePKP	23 26 02	
	West Pakistan				iSKP	28 55.0	
25	KJN iP	18 49 45.0	0.8	4.6	H: 23 07 28		
	SOD eP	18 49 26			20.7 S, 178.0 W, 345 km		
					Fiji Islands		
25	NUR eP	23 23 06			27	NUR iP	00 43 00.7 D 0.4 15.0
	KJN eP	23 23 39			KJN iP	00 42 37.0 U 0.7 5.5	
25	NUR eP	23 29 27			SOD eP	00 42 20	
	e	29			H: 00 32 26.6		
	i	31.2			47.0 N, 152.7 E, 65 km		
	ePP	30 21			Kurile Islands		
KJN	eP	23 29 25			27	NUR iP	11 10 49.0
	i	27.0			KJN iP	11 10 46.7	
	i	29.0			SOD eP	11 10 54	
	ePP	30 13			H: 10 58 30		
	e	31 09			0.1 N, 98.7 E, 33 km (R)		
		cont.			Northern Sumatra		



April						April				
				T	A					
27	SOD	eP	18 50 24			28	NUR	ePKP	01 35 33	
27	KJN	eP	19 16 00					i	49.1	
	SOD	eP	19 15 57				KJN	iPKP	01 35 29.6	U 1.2 44.7
	H:		19 03 13.2					i	35.0	
			5.9 N, 126.2 E, 48 km					i	40.1	
			Mindanao, P.I.				SOD	iPKP	01 35 28.7	
27	NUR	iP	19 54 13.9					i	38.1	
		i	16.0	U 1.0	90.2		KEV	iPKP	01 35 26.4	U 0.9 65.4
		i	39.8					i	32.0	
		ePP	50					i	38.1	
		eS	58 40				H:		01 15 34	
		e	59 20						49.1 S, 164.1 E, 3 km	
		eLQ	20 00.0						Auckland Islands	
		eLR	20 01.5			28	NUR	eP	01 59 23	
	KJN	iP	19 54 35.0	0.9	20.5	28	NUR	eP	06 51 59	
		i	37.0	U 1.0	174.4		KJN	eP	06 51 35	
		e	56 33				H:		06 41 17	
	SOD	iP	19 55 03.5						53.8 N, 165.9 W, 33 km (R)	
		i	06.1						Fox Islands	
		e	45			28	NUR	iP	09 14 38.7	
		iPP	56 03.2				KJN	iP	09 14 36.0	0.8 6.9
	KEV	iP	19 55 24.2	1.6	166.8			e	49	
		ePP	56 28				H:		09 01 40	
		eS	20 00 41						6.1 S, 104.2 E, 33 km (R)	
		ePcS	01 54						Sunda Strait	
		eLR	20 04.5			28	NUR	eP	11 52 20	
	H:		19 48 49.8				KJN	iP	11 52 58.8	0.7 6.2
			38.2 N, 42.7 E, 25 km				SOD	eP	11 53 26	
			Turkey				H:		11 47 34.1	
27	NUR	ePKP	21 51 44						39.0 N, 21.4 E, 54 km	
		eSKP	54 41						Greece	
	KJN	ePKP	21 51 42			28	KJN	eP	11 57 49	
		e	54 24				SOD	eP	11 57 08	
		eSKP	30			28	NUR	iP	13 06 03.3	0.7 9.2
	H:		21 33 17.7			28	NUR	eP	14 03 44	
			25.2 S, 179.8 E, 499 km (R)				KJN	eP	14 03 20	
			South of Fiji Islands			28	NUR	ePKP	17 15 38	
27	NUR	iP	23 06 46.2	0.7	44.9			ePP	18 22	
		e	07 13					ePKS	19 13	
	KJN	eP	23 06 28					e	20 16	
		e	35					e	22 08	
28	NUR	eSKP	00 38 48					eSKSP	28 34	
	KJN	ePKP	00 36 01					ePPS	30 32	
		eSKP	38 36				KJN	ePKP	17 15 34	
	SOD	eSKP	00 38 28						cont.	
	H:		00 17 51							
			21.8 S, 179.2 W, 600 km							
			Fiji Islands							

April				T	A	April				T	A
	e		39			29	NUR	eP	02 29 02		
	ePKS		19 01			29	NUR	eP	02 36 04		
KEV	e	17	15 38					i	26.5		
	ePP		17 24			KJN	iP	02 35 44.0 U	0.5	7.4	
	ePKS		18 48				i	36 06.0 U	0.7	8.9	
	H:	16	56 20			SOD	eP	02 35 34			
		19.1	S, 173.6 W, 27 km				H:	02 25 03.3			
			Tonga Islands					37.0 N, 140.1 E, 82 km (R)			
28	NUR	ePKP	17 32 45					Honshu, Japan			
		ePKS	36 24			29	NUR	iP	03 07 08.0		
	KJN	ePKP	17 32 46				KJN	iP	03 06 52.8 U	0.6	6.2
		ePKS	36 12				SOD	eP	03 06 50		
	H:	17	13 31.6			29	NUR	eP	13 00 45		
		19.3	S, 173.5 W, 33 km (R)				SOD	eP	13 00 46		
			Tonga Islands			29	NUR	eP	18 27 54		
28	NUR	eP	18 19 25			29	NUR	eP	23 13 59		
	KJN	eP	18 19 36	1.1	12.2		i	14 00.4			
	H:	18	08 58.3				e	11			
		4.3	N, 62.7 E, 33 km (R)			KJN	iP	23 13 34.0 D	1.0	34.9	
			Carlsberg Ridge				i	45.1			
28	NUR	eP	18 51 11				i	54.7			
28	NUR	iP	21 29 53.0	0.5	10.8	SOD	iP	23 13 14.8 D			
	KJN	iP	21 29 29.3	0.6	4.1		e	39			
	SOD	eP	21 29 15			KEV	eP	23 13 00			
28	NUR	eP	22 41 38	1.0	12.3		H:	23 03 40			
	KJN	eP	22 41 20					52.2 N, 160.5 E, 33 km (R)			
	SOD	eP	22 40 59					Kamchatka			
	KEV	eP	22 40 47			30	NUR	iP	02 50 50.1 U	0.9	17.2
	H:	22	30 05				KJN	eP	02 50 23		
		44.0	N, 127.8 W, 18 km			30	NUR	eP	12 12 29		
			Off coast of Oregon				e	36			
29	KJN	eP	00 19 06				e(S)	16 56			
	SOD	eP	00 18 45			KJN	iP	12 12 44.1 D	0.6	10.3	
	H:	00	07 53				i	52.2			
		44.0	N, 127.7 W, 33 km (R)				i	13 09.0			
			Off coast of Oregon			SOD	eP	12 13 13			
29	NUR	iP	01 57 27.0 D	0.9	39.6		e	20			
		e	44				Moscow:				
		ePcP	58				H:	12 07 20			
		e	58 06					41.8 N, 48.3 E			
KJN	iP	01	57 03.5 D	0.8	15.4			Caucasus			
	i		12.5			30	NUR	eP	12 17 13		
SOD	iP	01	56 40.6 D				e	20			
KEV	iP	01	56 23.9	0.7	20.6		eS	20 12			
	e		51				e	21 08			
	H:	01	46 43				e	22 16			
		53.8	N, 157.8 W, 33 km (R)								
			South of Alaska								

cont.

April				T	A	April				T	A
	KJN	iP	12 16 26.0	0.6	7.5	30	NUR	iP	14 12 34.5	0.6	10.2
		e	48				KJN	eP	14 12 17	0.6	6.2
		e	17 50				SOD	iP	14 12 09.5		
		eS	18 46				H: 14 01 36				
		e	20 19				28.6 N, 138.4 E, 484 km				
	SOD	eP	12 15 41				Bonin Islands				
		iS	17 26.6			30	NUR	iP	20 48 21.6		
		e	18 36			30	KJN	eP	23 29 05		
	KEV	eP	12 15 11								
		i	57.8								
		eS	16 37								
		e	17 27								
		e	33								
		e	18 01								
30	KJN	eP	13 26 49								
		eS	29 11								
		e	30 43								
	SOD	eP	13 26 03								
		eS	27 45								
		e	29 07								
	KEV	eP	13 25 34								
		eS	26 54								
		e	27 34								
30	NUR	iP	13 48 00.3	0.7	13.2						
	KJN	iP	13 47 57.0 U	0.8	21.5						
		i	48 09.7								
		e	49 06								
		e	42								
	SOD	iP	13 48 11.2 U								
	KEV	iP	13 48 19.0	0.8	15.8						
		i	24.8								
	H: 13 41 09.1										
	41.0 N, 72.1 E, 19 km										
	Kirgiz, SSR										
	October 3, 1966										
	Urmas Luosto										
	Aili Huovila										



May

T A

1 KJN eP 10 23 53  
 H: 10 11 21  
 19.1 N, 146.9 E, 33 km (R)  
 Mariana Islands

1 NUR eP 16 36 31  
 ePP 40 49  
 epPPP 43 38  
 eSKS 46 55  
 eS 47 56  
 epS 48 58  
 esS 49 34  
 esPS 51 09  
 eSS 54 56  
 e 55 10  
 esSS 56 10  
 eSSS 58 57

KJN iP 16 36 36.4 1.0 12.0  
 epP 37 16  
 e 39 46  
 ePP 40 48

SOD eP 16 36 34  
 epP 37 13

KEV eP 16 36 35  
 epP 37 13  
 eS 47 56  
 epS 49 04  
 e 53 22  
 eSS 54 46  
 e 55 42  
 e(SSS) 58 36

H: 16 22 56.3  
 8.5 S, 74.3 W, 165 km (R)  
 Peru-Brazil border

1 NUR eP 16 52 27  
 KJN eP 16 52 57

1 NUR iP 18 42 13.5 U 1.0 34.9  
 epP 40  
 ePP 45 04

KJN iP 18 41 55.0 U 0.7 17.8  
 ipP 42 20.2  
 iPP 44 35.4

SOD iP 18 41 45.5  
 ipP 42 12.0  
 ePP 44 21

KEV iP 18 41 37.8 0.9 24.1  
 H: 18 30 41.8  
 30.6 N, 140.6 E, 114 km  
 South of Honshu, Japan

May

T A

1 KJN eP 22 33 43  
 H: 22 23 21.5  
 23.8 N, 45.2 W, 33 km  
 North Atlantic Ocean

2 NUR ePKP 10 11 19  
 ePP 12 02  
 ePS 21 28  
 e 24 16  
 eSS 28 04

KJN ePKP 10 11 14  
 e 40

KEV ePKP 10 11 16  
 e 13 02  
 e 20 24  
 ePS 40  
 ePPS 21 44  
 eSS 26 42  
 eSSS 31 06

H: 09 52 48.5  
 6.0 S, 149.7 E, 52 km  
 New Britain

2 NUR eP 10 45 13  
 KJN iP 10 44 53.0 U 0.8 10.8  
 SOD iP 10 44 41.2 U  
 Moscow:  
 H: 10 34 38  
 41.0 N, 141.5 E, 142 km  
 Japan

2 NUR ePKP 11 11 35  
 i 44.6  
 eSKP 14 27

KJN ePKP 11 11 34  
 i 38.0

H: 10 53 28  
 18.0 S, 178.3 W, 537 km  
 Fiji Islands

2 NUR eP 13 57 03  
 KJN eP 13 57 20  
 H: 13 51 40.7  
 38.7 N, 42.6 E, 33 km (R)  
 Turkey

2 NUR eP 14 00 25 1.2 20.4  
 eS 04 42

KJN iP 14 00 45.6 U 1.5 40.0  
 e 01 17

SOD eP 14 01 11  
 KEV eP 14 01 36  
 H: 13 55 03.6  
 38.1 N, 42.7 E, 54 km  
 Turkey

May		T	A	May		T	A
2	NUR iP 16 53 08.0 D	0.8	33.8	3	KJN eP 12 17 20		
	e 55 17				H: 12 06 54		
	e 56 10				51.6 N, 176.8 W, 20 km (R)		
	ePP 57 06				Andreanof Islands		
	ePKKP 17 09 45			3	NUR eP 14 41 50		
	KJN iP 16 53 01.8 D	0.8	22.3		KJN eP 14 41 11		
	i 09.0				SOD eP 14 40 35		
	SOD iP 16 53 04.7 D				H: 14 36 45		
	H: 16 39 44				81.9 N, 3.8 W, 33 km (R)		
	8.6 S, 114.9 E, 103 km				North of Svalbard		
	Bali Island			3	NUR eP 14 51 25		
2	NUR eP 20 46 07	1.0	14.4		KJN eP 14 51 45		
	KJN eP 20 46 26			3	SOD eP 17 10 35		
	H: 20 40 38						
	37.8 N, 42.4 E, 15 km (R)						
	Turkey						
2	NUR iP 23 17 47.0 D	1.0	43.1	3	NUR iP 18 56 53.2	0.9	13.8
	i 52.2				e 57 03		
	eS 22 10				KJN iP 18 56 39.9 U	0.9	14.3
	KJN iP 23 18 06.5 D	1.0	41.4		SOD eP 18 56 29		
	i 08.7				KEV iP 18 56 29.8 D	1.1	29.3
	i 29.0				H: 18 43 32.9		
	e 19 25				10.9 N, 141.8 E, 30 km		
	SOD iP 23 18 35.6 D				West Caroline Islands		
	e 19 11			3	NUR eP 20 39 51		
	KEV eP 23 18 55				KJN eP 20 40 11		
	H: 23 12 23				SOD eP 20 40 39		
	38.0 N, 42.6 E, 41 km				H: 20 34 28		
	Turkey				38.3 N, 42.6 E, 33 km (R)		
					Turkey		
2	NUR eP 23 32 06			4	NUR eP 00 33 31		
	KJN eP 23 31 41			4	NUR eP 01 39 30		
	SOD eP 23 31 18			4	NUR eP 01 59 52		
	H: 23 21 23.8				KJN iP 01 59 31.5	0.6	3.4
	51.9 N, 175.2 E, 25 km (R)				SOD eP 01 59 21		
	Rat Islands				H: 01 48 56		
3	NUR eP 03 02 58				36.7 N, 137.6 E, 103 km		
	ePcP 03 27				Honshu, Japan		
	KJN eP 03 02 34			4	NUR eP 02 10 36		
	e 03 06				KJN iP 02 09 58.3	0.8	6.2
	H: 02 52 09				SOD eP 02 09 19		
	51.5 N, 178.6 W, 30 km (R)				eS 10 52		
	Andreanof Islands				KEV eP 02 08 52		
3	NUR eP 03 54 37				eS 10 01		
3	NUR eP 07 15 08						
	KJN eP 07 15 18						
3	KJN iP 08 01 40.0						

May				May			
			T	A		T	A
4	NUR	eP	06 41 46			KEV	eP 21 55 23
		i	48.7				eS 22 00 40
		i	51.3				eLR 22 04.0
		i	42 08.0			H:	21 48 58
		eS	45 46				37.7 N, 27.9 E, 14 km
		e	46 30				Turkey
		eLQ	06 47.1				
	KJN	iP	06 42 25.1	0.7	9.6	5	KJN eP 00 34 03
		i	27.1	0.9	40.2		H: 00 23 31
		i	31.1				52.7 N, 169.7 W, 33 km (R)
		i	43 06.0				Fox Islands
		eS	46 53				
	SOD	iP	06 42 53.0 U			5	KJN iP 02 26 57.6
		i	43 00.5				SOD eP 02 26 58
		i	11.2				H: 02 14 03.6
	KEV	iP	06 43 15.8 U	0.9	20.2		0.1 S, 123.7 E, 146 km
		eS	48 18				Northern Celebes
			H: 06 36 59.8				
			39.1 N, 21.8 E, 41 km			5	NUR eP 06 27 28
			Greece				KJN eP 06 27 03
							H: 06 16 42
4	NUR	eP	07 20 33				51.4 N, 176.6 E, 33 km (R)
	KJN	eP	07 20 09				Rat Islands
	SOD	eP	07 19 46				
			H: 07 09 37			5	NUR eP 06 48 14
			51.3 N, 170.4 W, 33 km (R)				e 37
			Fox Islands				KJN iP 06 48 05.0 U
							SOD iP 06 48 03.7
							KEV eP 06 48 02
4	NUR	eP	07 43 45			5	NUR iP 06 49 51.9 U
	KJN	eP	07 44 21				i 50 00.7
		i	26.3	0.9	11.6		KJN iP 06 49 26.5 U
	SOD	eP	07 44 52				e 35
			H: 07 38 58.9				e 50 41
			39.0 N, 21.8 E, 47 km				SOD iP 06 49 06.9
			Greece				i 16.0
							KEV eP 06 48 51
							H: 06 39 12
							51.6 N, 176.8 E, 75 km (R)
							Rat Islands
4	NUR	eP	21 54 01			5	NUR iP 14 32 46.0
		i	06.0	1.2	48.5		i 49.5
		e	34				i 33 03.0
		eS	58 10				ePP 35 34
		e	20				ePPP 37 20
		eLR	22 00.1				e 38 24
	KJN	eP	21 54 35	0.9	10.7		eS 42 12
		i	47.0				eScS 47
		i	55 04.7				ePS 43 03
	SOD	eP	21 55 06				eSS 47 20
			cont.				cont.

May				May			
		T	A		T	A	
	eLQ	14	52.5				
	eLR	14	56.5				
KJN	iP	14	32 30.6 U	1.1		62.1	
	i		34.0				
	e		45				
	ePP		35 04				
	eScP		36 55				
	eS		41 46				
	eScS		42 27				
SOD	iP	14	32 27.7 U				
	i		31.8				
	i		33 14.2				
	e		39 46				
	eS		41 35				
KEV	iP	14	32 23.0				
	i		27.6	1.1		39.0	
	i		35.0				
	ePP		34 46				
	ePPP		36 38				
	e		37 51				
	eS		41 30				
	eScS		42 24				
	eSS		45 50				
	e		46 34				
	eSSS		49 20				
	eLQ	14	50.0				
	eLR	14	54.5				
	H:	14	21 22.7				
			24.4 N, 122.6 E, 60 km				
			Taiwan				
5	NUR	iP	15 21 51.0	0.9		10.1	
	KJN	eP	15 21 52				
		e	57				
	SOD	eP	15 21 39				
	H:	15	16 31.9				
			61.4 N, 27.5 W, 33 km (R)				
			Iceland region				
5	NUR	iP	15 30 33.0	0.9		33.6	
		i	38.4				
	KJN	iP	15 30 32.0	1.1		21.6	
		e	38				
	SOD	iP	15 30 19.0				
	KEV	iP	15 30 17.0	1.0		36.9	
		i	32.0				
	H:	15	25 12.4				
			61.5 N, 27.4 W, 33 km (R)				
			Iceland region				
5	NUR	eSKP	15 44 32				
	KJN	iSKP	15 44 20.0				
			cont.				
	SOD	eSKP	15 44 11				
	H:	15	23 36				
			21.7 S, 179.3 W, 604 km				
			Fiji Islands				
5	NUR	eP	15 58 00				
		i	02.2				
		eS	16 02 28				
	KJN	eP	15 58 00				
		i	13.8				
		eS	16 02 29				
	SOD	iP	15 57 47.2				
		e	58 20				
	KEV	iP	15 57 47.0 D	1.2		58.4	
		e	58 12				
		eS	16 02 06				
	H:	15	52 41.1				
			61.5 N, 27.5 W, 33 km (R)				
			Iceland region				
5	NUR	eP	20 51 07				
	KJN	iP	20 50 52.2 U	0.8		14.6	
		i	12.3				
	SOD	iP	20 50 49.3				
		e	51 06				
	KEV	iP	20 50 44.5	0.9		18.9	
	H:	20	39 38.6				
			24.2 N, 122.6 E, 33 km (R)				
			Taiwan				
6	NUR	eP	00 17 49				
		e	18 45				
	KJN	iP	00 17 33.7				
		e	18 37				
	SOD	eP	00 17 31				
		e	18 33				
		e	45				
6	NUR	iP	02 48 44.0 D	1.1		35.7	
		i	49.7				
		eS	58 30				
	KJN	iP	02 49 02.2 D	1.0		24.0	
		i	08.0				
	SOD	iP	02 49 20.0 D				
		e	26				
	KEV	iP	02 49 32.5 D	0.8		17.6	
		i	39.3				
		eScS	03 00 10				
	H:	02	36 56.8				
			15.7 S, 34.4 E, 33 km				
			Malawi				





May			T	A	May			T	A
	KEV	iP 13 14 46.0 eS 20 00 H: 13 08 16.0 37.8 N, 27.9 E, 12 km Turkey	1.5	93.4	8	NUR	eP 02 21 22 KJN eP 02 20 57 e 21 11 H: 02 10 37 44.8 N, 150.0 E, 45 km (R) Kurile Islands		
7	NUR	eP 16 36 41 KJN eP 16 36 31 SOD eP 16 36 31 H: 16 23 41.1 4.7 N, 125.7 E, 47 km Talaud Islands			8	NUR	eP 03 53 37 0.9 8.4 KJN eP 03 54 12 0.6 4.8 SOD eP 03 54 40 H: 03 48 48 39.0 N, 21.3 E, 49 km Greece		
7	NUR	eP 18 35 48 H: 18 28 19 34.6 N, 70.7 E, 16 km Afghanistan			8	NUR	eP 06 27 51 KJN eP 06 28 24		
7	NUR	eP 20 40 24 KJN eP 20 40 44			8	NUR	eP 08 40 41 KJN eP 08 40 17 H: 08 29 57 44.9 N, 150.5 E, 33 km (R) Kurile Islands		
7	SOD	eP 21 17 26 Moscow: H: 21 10 26 41.5 N, 65.0 E Kirgiz SSR			8	NUR	eP 09 13 24		
7	NUR	iP 22 13 35.7 0.9 11.8 i 45.1 e 14 07 eS 16 57 KJN iP 22 14 08.5 1.1 12.2 i 10.8 1.0 61.0 i 16.7 ePP 39 SOD eP 22 14 36 e 40 i 49.6 KEV e 22 15 08 i 22.5 H: 22 09 07 42.1 N, 35.8 E, 13 km Black Sea			8	NUR	eP 12 38 48 KJN eP 12 38 29 i 42.3 0.9 11.6 SOD eP 12 38 21 H: 12 26 01 18.7 N, 146.4 E, 91 km Mariana Islands		
7	NUR	eP 23 31 41			8	NUR	iP 17 14 35.6 0.6 7.5 KJN iP 17 14 15.3 D 0.6 10.3 SOD iP 17 14 05.2 KEV eP 17 13 56 H: 17 03 28 36.1 N, 139.9 E, 61 km Honshu, Japan		
7	NUR	eP 23 31 41			9	SOD	eP 00 16 13 H: 00 03 37.5 14.4 N, 144.5 E, 107 km Mariana Islands		
8	NUR	eP 01 36 03 KJN eP 01 35 39 SOD eP 01 35 29 e 51 H: 01 25 19.5 44.8 N, 150.5 E, 45 km (R) Kurile Islands			9	NUR	iP 00 48 26.0 1.2 57.0 i 29.3 1.0 252.0 e 58 ePcP 51 56 eS 52 54 e 53 05 eLQ 00 55.1		

cont.

May		T		A		May		T		A				
KJN	iP	00 48	58.6	D			9	NUR	iP	03 56	12.3	1.2	105.5	
	eS	53 50							i		33.0			
	e		58						i		48.7			
SOD	iP	00 49	27.5						e	57 35				
	iS	54 48.5							eS	04 00	28			
KEV	iP	00 49	50.6	D	0.9	43.7			e	01 10				
	i		57.8					KJN	iP	03 56	42.0	1.0	24.0	
	i	50 37.7							epP	57 10				
	iPP	51 09.8							e	58 03				
	e	54 14							e		31			
	eS	55 14							ePcP	59 55				
	e	56 00							eS	04 01	05			
	e	57 00						SOD	iP	03 57	11.6			
	eLQ	00 58.0							esP		53			
H:	00 42	55.6						KEV	iP	03 57	32.8	1.0	22.0	
	34.5 N, 26.5 E, 33 km (R)								e		50			
	Crete								ePP	58 33				
									eS	04 02	28			
9	KJN	eP	01 03	05	0.6	4.1			e	03 22				
								H:	03 51	09.4				
9	NUR	eP	01 39	48					37.2 N, 31.2 E, 125 km					
	KJN	eP	01 39	46					Turkey					
	SOD	eP	01 39	27				9	NUR	eP	04 36	45	1.1	14.3
									e		37 07			
9	KJN	eP	02 09	54					KJN	iP	04 37	06.0	1.0	13.1
	SOD	eP	02 09	53					Moscow:					
	H:	01 56	54						H:	04 31	26			
	0.0 S, 125.2 E, 122 km								38.5 N, 42.3 E					
	Molucca Sea								Turkey					
								9	NUR	iP	04 40	06.5	1.0	20.0
9	NUR	eP	02 29	08					e		33			
	KJN	eP	02 29	44					KJN	eP	04 40	26	1.0	13.1
									SOD	eP	04 40	55		
9	NUR	eP	02 39	24					H:	04 34	42			
									38.0 N, 42.2 E, 33 km (R)					
									Turkey					
9	NUR	iP	03 08	46.0	D	0.7	7.7	9	NUR	eP	06 14	00		
	KJN	iP	03 08	24.7	D	0.9	14.3		i		03.0	1.0	36.0	
	i			31.0					i		09.8			
	SOD	iP	03 08	14.1					KJN	iP	06 14	32.0		
	e			20					i		39.2			
	H:	02 57	48.1						ePP	15 27				
	38.4 N, 139.3 E, 20 km (R)								H:	06 08	28.5			
	Honshu, Japan								34.5 N, 26.6 E, 33 km (R)					
									Crete					
9	SOD	eP	03 53	27				9	NUR	eP	06 28	01		
	H:	03 41	00.0						i		08.2			
	13.6 N, 91.0 W, 68 km								KJN	eP	06 28	18		
	Guatemala													

cont.

May				May			
			T	A		T	A
	SOD eP	06 28 45			10 SOD eP	04 10 03	
	KEV eP	06 28 54			10 SOD iP	08 57 58.8	
	i	29 02.6			10 NUR iP	10 19 39.9 U	0.8 21.6
	Moscow:				KJN iP	10 19 17.5 U	0.9 25.0
	H: 06 19 01				i	34.0	
	13.8 N, 52.4 E				SOD iP	10 19 05.7 D	
	Arabian Sea				e	27	
9	NUR iPKP	10 19 11.2	0.9	16.8	KEV eP	10 18 55	0.7 14.2
	KJN iPKP	10 19 04.0	1.0	17.4	e	19 18	
	H: 10 00 33				H: 10 08 57		
	13.2 S, 166.6 E, 205 km (R)				41.8 N, 141.9 E, 43 km		
	New Hebrides Islands				Hokkaido, Japan		
9	NUR eP	10 36 41			10 NUR iP	13 25 41.5	0.9 23.5
9	NUR eP	13 08 30			KJN eP	13 25 31	
	KJN eP	13 09 02			10 KJN eP	16 42 06	
9	NUR eP	16 57 47			SOD iP	16 41 58.3	
	KJN eP	16 58 19			10 NUR iP	21 11 42.5	1.0 30.0
9	NUR eP	18 51 57			i	48.5	
	KJN eP	18 51 56			iPP	13 20.5	
	ePP	52 57			eS	17 42	
	SOD eP	18 52 15			eSS	20 30	
	Moscow:				KJN iP	21 11 21.2 D	0.9 36.6
	H: 18 45 18				i	27.2	
	41.5 N, 68.9 E				ePP	12 43	
	Kirgiz SSR				e	15 14	
9	NUR eP	18 57 23			SOD iP	21 11 19.0	
	KJN iP	18 57 21.0			e	24	
	ePP	58 21			KEV iP	21 11 13.8 U	0.9 18.9
	SOD eP	18 57 37			ePP	12 47	
9	NUR eP	19 12 19			e	13 08	
	KJN eP	19 11 21			eS	16 53	
9	KJN eP	23 00 14			eSS	18 46	
	SOD eP	22 59 03			H: 21 04 04.0		
9	SOD eP	23 10 04			51.8 N, 99.0 E, 2 km		
10	NUR eP	02 53 18	0.9	15.1	USSR-Mongolia border		
	i	20.7			11 NUR eP	01 28 21	
	KJN eP	02 53 49			KJN eP	01 28 54	
	SOD eP	02 54 18			SOD eP	01 29 23	
	KEV eP	02 54 37			H: 01 22 55.5		
	H: 02 47 45.3				34.5 N, 26.5 E, 94 km		
	34.5 N, 26.6 E, 33 km (R)				Crete		
	Crete				11 NUR eP	01 36 01	
					KJN eP	01 35 37	
					SOD eP	01 35 10	

cont.

May				May			
		T	A		T	A	
	KEV eP	01 34	51				
	H:	01 26	23.7				
	62.8 N, 150.1 W, 91 km (R)						
	Central Alaska						
11	NUR iP	02 01	20.7				
	i		25.1				
	i	02	37.7				
	ePP		55				
	KJN iP	02 01	22.0 D				
	i		26.7	1.0		34.9	
	ePP	02	41				
	SOD iP	02 01	39.5 U				
	KEV iP	02 01	48.8	0.6		29.4	
	i		51.1				
	i	02	30.2				
	e	03	17				
	ePP		37				
	H:	01 53	56.7				
	34.6 N, 69.9 E, 27 km						
	Afghanistan						
11	KJN ePKP	04 08	07				
	SOD ePKP	04 08	11				
	eSKP	11	19				
	H:	03 49	14				
	56.0 S, 27.5 W, 89 km						
	South Sandwich Islands						
11	SOD eP	06 07	33				
11	NUR iP	10 27	21.0	1.0		16.0	
	KJN eP	10 27	54				
	SOD eP	10 28	24				
	H:	10 21	43				
	34.5 N, 26.4 E, 11 km						
	Crete						
11	NUR iP	14 28	10.0 D	0.9		23.5	
	iPcP		46.7				
	i		57.8				
	ePP	30	32				
	e	31	46				
	eS	36	46				
	eSP	37	06				
	eScS	38	06				
	e	40	34				
	eSS	41	16				
	e	44	52				
	KJN iP	14 27	44.5	1.0		27.3	
	i		56.8				
	i	28	19.2				
	cont.						
	ePcP		34				
	ePP		29 45				
	SOD iP	14 27	27.1				
	i		34.5				
	e		28 06				
	KEV iP	14 27	12.6	0.8		20.6	
	ePcP		28 13				
	e		57				
	ePPP		30 30				
	e		34 22				
	eS		35 02				
	e		36 18				
	eScS		37 08				
	eSS		39 15				
	e		40				
	eLR	14	45.5				
	H:	14 17	34.1				
	48.9 N, 156.2 E, 13 km						
	Kurile Islands						
11	NUR iP	14 37	12.6				
	i		22.0				
	i		41.8				
	KJN iP	14 36	48.2 D	1.0		18.5	
	SOD iP	14 36	31.2 D				
	i		44.0				
	ePcP		37 22				
	KEV iP	14 36	16.6	1.1		24.4	
	e		44				
	ePcP		37 16				
	H:	14 26	41.6				
	49.0 N, 156.2 E, 33 km (R)						
	Kurile Islands						
11	NUR iP	15 11	33.6	1.0		30.0	
	i		40.7	1.0		70.0	
	eS		16 04				
	KJN eP	15 12	05				
	i		08.4				
	e		26				
	SOD iP	15 12	34.3				
	i		38.0				
	KEV iP	15 12	56				
	i		13 03.0	1.1		26.8	
	H:	15 06	02				
	34.4 N, 26.5 E, 34 km						
	Crete						
11	SOD eP	18 10	20				
	H:	18 00	29				
	48.5 N, 156.5 E, 33 km (R)						
	Kurile Islands						



May						May					
				T	A					T	A
13	NUR	iP	05 16 18.0	0.8	8.6	14	KJN	eP	04 20 51		
		i	55.2				SOD	iP	04 20 19.6		
	KJN	eP	05 15 53				H:	04 16 05			
	SOD	eP	05 15 31					84.8 N, 2.7 E, 33 km (R)			
13	KJN	eP	07 22 29					North of Svalbard			
13	KJN	eP	10 33 09			14	NUR	eP	04 21 04		
	H:	10 20 31					e	50			
		6.0 N, 125.7 E, 155 km				14	NUR	eP	05 19 26	0.9	11.8
		Mindanao, P.I.									
13	NUR	eP	13 11 03			14	NUR	ePKP	05 51 11		
		e	08					eSKP	54 06		
	KJN	eP	13 11 38				KJN	ePKP	05 51 09		
	SOD	eP	13 12 09			14	NUR	eP	09 34 42		
	H:	13 05 32					KJN	eP	09 34 25		
		34.6 N, 26.6 E, 8 km					SOD	eP	09 34 14		
		Crete					H:	09 23 13.2			
								24.2 N, 122.8 E, 38 km			
								Taiwan			
13	NUR	iP	13 17 21.0	0.8	8.6	14	NUR	eP	17 11 11	0.7	7.7
		i	30.0	0.8	18.7			i	19.2		
		i	53.4				KJN	iP	17 10 51.4	0.7	7.5
		eS	21 48					i	11 01.0		
	KJN	iP	13 17 53.3				SOD	eP	17 10 40		
		i	18 00.5					e	47		
		e	19 37				KEV	eP	17 10 40		
	SOD	iP	13 18 22.2				H:	16 59 52.9			
		i	31.5					34.1 N, 138.8 E, 50 km			
	KEV	eP	13 18 42					Honshu, Japan			
	H:	13 11 51				14	NUR	eP	17 15 16		
		34.8 N, 27.0 E, 31 km						i	24.0	0.9	28.6
		Crete					KJN	iP	17 14 57.0		
								i	15 01.6		
13	NUR	iP	13 41 57.1 U	1.2	45.6		SOD	eP	17 14 46		
	KJN	iP	13 41 43.2 U	1.3	78.1		KEV	eP	17 14 44		
		e	58				H:	17 03 56.5			
	SOD	iP	13 41 24.8 U					34.2 N, 138.9 E, 33 km (R)			
	KEV	iP	13 41 12.5	1.3	47.7			Honshu, Japan			
13	SOD	eP	14 09 07			14	KJN	eP	17 42 37		
	H:	13 59 19					SOD	eP	17 42 21		
		49.9 N, 157.3 E, 12 km						e	33		
		Kurile Islands				14	NUR	eP	20 39 36		
13	SOD	eP	14 29 13					i	40.4		
	H:	14 19 29					KJN	iP	20 39 43.3 U	0.7	11.6
		49.9 N, 157.3 E, 33 km (R)						i	46.7		
		Kurile Islands						i	40 06.1		
									cont.		

May		T	A	May		T	A		
SOD	iP	20 39	38.5						
	i		42.2	15	NUR	eP	10 16 33		
KEV	eP	20 39	38		KJN	eP	10 17 12		
H:		20 27	27.4		SOD	eP	10 17 35		
10.5 N, 63.0 W, 16 km (R)					H:		10 11 07.9		
Venezuela					35.1 N, 27.2 E, 45 km				
					Dodecanese Islands				
14	NUR	eP	21 52 35	15	KJN	iP	12 29 14.0		
14	NUR	eP	23 05 47						
	i		57.1	0.8	23.0	15	NUR	iP	14 56 57.3
	eS	10 07					i	59.3	
KJN	iP	23 06	15.0	D	0.6	2.7	i	57 55.1	
	i		33.6				ePPP	15 01 11	
	e	07 06					eS	05 45	
SOD	eP	23 06	41				e	06 40	
	i		07 00.3				eSS	09 56	
	e		59				e	13 30	
KEV	iP	23 07	21.0	0.7	12.9		eP'P'	25 25	
H:		23 00	43				eLR	15 18.1	
36.8 N, 22.3 E, 33 km (R)						KJN	eP	14 56 31	
Southern Greece							eP'P'	15 25 34	
15	NUR	eP	00 35 52			SOD	iP	14 56 10.9	
	KJN	eP	00 35 40				i	13.6	
15	NUR	iP	02 20 08.0	1.1	23.8		iPcP	58.8	
	KJN	eP	02 20 04	1.0	9.8		i	57 11.1	
	i		06.9				eP'P'	15 25 32	
	e	21 11				KEV	eP	14 55 56	
SOD	eP	02 20	17				i	58.8	
	i		21.4				e	56 12	
KEV	eP	02 20	26				e	37	
H:		02 13	03				e	57 25	
39.6 N, 74.1 E, 51 km							ePP	58 06	
Southern Sinkiang, China							ePPP	59 21	
15	NUR	eP	03 00 53				eS	15 03 48	
15	NUR	eP	04 44 57				ePPS	04 20	
	KJN	eP	04 44 34				eSS	08 00	
H:		04 34	11				eP'P'	25 48	
53.4 N, 167.8 W, 33 km (R)						H:		14 46 06.5	
Fox Islands						51.5 N, 178.4 W, 31 km (R)			
						Andreanof Islands			
15	NUR	eP	08 34 22			15	NUR	eP	16 59 46
	KJN	eP	08 35 03			15	NUR	iP	17 23 13.1
	SOD	eP	08 35 25				KJN	iP	17 23 12.7
Moscow:							SOD	iP	17 23 28.5
H:		08 29	35				KEV	eP	17 23 37
38.9 N, 21.2 E						H:		17 16 16.2	
Greece						36.6 N, 71.0 E, 213 km			
						Hindu Kush			

May				May					
			T	A		T	A		
15	NUR	eP	17 47 01			KJN	iP	17 36 57.2	
	KJN	eP	17 47 27			SOD	iP	17 37 27.0	
	SOD	eP	17 48 04			KEV	eP	17 37 49	
	KEV	eP	17 48 25			H: 17 30 53.5			
						34.4 N, 26.6 E, 32 km Crete			
16	NUR	iP	03 00 18.2			16	KJN	iP	18 31 35.7
	e		03 01						
	e		31			16	NUR	eP	20 05 12
	ePP		04 32				SOD	eP	20 05 25
	iSKS		10 38.9			16	NUR	eP	20 07 40
	ePKKP		16 13				KJN	eP	20 07 47
	KJN	iP	03 00 09.2 U	1.0	97.0		KEV	iP	20 07 25.0
	i		17.7				H: 20 02 25		
	i		29.8				61.9 N, 26.8 W, 33 km (R)		
	e		03 34				Iceland region		
	ePP		04 10			16	NUR	eP	20 21 29
	iSKS		10 28.5				KJN	iP	20 21 17.3 D
	iPKKP		16 18.7				SOD	iP	20 21 16.7
	SOD	iP	03 00 09.1				KEV	eP	20 21 14
	e		03 20				H: 20 09 35.9		
	ePP		04 15				17.1 N, 119.9 E, 49 km		
	ePKKP		16 07				Philippine Islands		
	KEV	iP	03 00 06.7	1.2	34.2	16	NUR	eP	22 56 26
	e		03 20				e		58 57
	ePKKP		16 01			17	NUR	eP	00 43 56
	H: 02 46 42.4						KJN	eP	00 43 56
	6.9 S, 129.4 E, 212 km					17	NUR	iP	01 10 16.0 U
	Banda Sea						e		45
16	NUR	eP	05 54 23	0.8	8.5		ePP		12 48
	KJN	iP	05 54 48.0				KJN	iP	01 09 55.7 U
	SOD	eP	05 55 09				i		59.0
	H: 05 44 19.6						i		10 09.0
	0.6 N, 30.2 E, 36 km						ePP		12 25
	Uganda						SOD	iP	01 09 45.4 U
16	NUR	eP	13 17 49				i		10 03.3
	i		51.2				KEV	iP	01 09 36.6
	e		18 10				H: 00 59 06.3		
	KJN	iP	13 17 31.7 D				35.8 N, 140.5 E, 68 km		
	i		56.0				Honshu, Japan		
	SOD	iP	13 17 26.9 D			17	NUR	eP	02 00 30
	KEV	iP	13 17 19.2	0.7	18.1		KJN	eP	02 00 30
	H: 13 06 38.1						SOD	eP	02 00 18
	30.6 N, 130.2 E, 68 km						H: 01 47 37.3		
	Kyushu, Japan						17.2 N, 99.0 W, 35 km (R)		
16	NUR	eP	17 36 26				Guerrero, Mexico		
	i		32.8	1.6	119.6				
	i		37 10.8						
	e(S)		41 07						
	cont.								







May						May					
				T	A						
						T			A		
20	NUR	iP	07 40 34.4	0.9	11.8	20	NUR	eP	18 25 36		
	KJN	eP	07 41 23				KJN	eP	18 25 24		
	BCIS:						SOD	eP	18 25 25		
	H: 07 38 00						H: 18 13 50				
	50.3 N, 19.0 E						19.7 N, 121.8 E, 39 km				
	Silesia, Poland						Philippine Islands				
20	NUR	eP	09 24 42			20	KJN	iP	18 31 08.8	0.6	4.1
	H: 09 19 08						SOD	eP	18 31 10		
	34.4 N, 26.5 E, 37 km										
	Crete					20	NUR	eP	20 15 53		
							H: 20 09 02				
							40.6 N, 73.4 E, 33 km (R)				
							Kirgiz SSR				
20	NUR	iP	09 27 53.7 D	1.6	141.2	21	NUR	eP	00 09 46		
		e	28 12				KJN	iP	00 09 26.6 U		
		e	30				SOD	eP	00 09 04		
		ePP	31 31				H: 23 58 51.7				
		e	35 46				50.2 N, 129.7 W, 37 km				
		eSKS	38 20				Vancouver Island				
		ePS	40 10			21	KJN	eP	03 08 38	0.7	4.8
		eSS	44 06				SOD	eP	03 08 31		
		e	45 26								
		eSSS	49 10			21	NUR	ePKP	08 26 54		
	KJN	iP	09 27 39.5	1.6	196.4		i	27 02.1			
	SOD	iP	09 27 33.2 D				iSKP	29 48.7			
		e	54				KJN	iPKP	08 26 52.0	0.9	8.9
	KEV	iP	09 27 27.0	1.5	201.2		eSKP	29 38			
		e	34 14				H: 08 08 30.6				
		eS	37 50				24.3 S, 179.8 E, 518 km (R)				
		ePPS	39 30				South of Fiji Islands				
	H: 09 14 49.2										
	13.9 N, 146.1 E, 66 km					21	KJN	iPKP	11 10 09.0		
	South of Mariana Islands						H: 10 50 59.8				
							20.9 S, 175.3 W, 75 km (R)				
							Tonga Islands				
20	NUR	eP	11 54 38			21	NUR	iP	17 56 06.4	0.8	18.7
	H: 11 44 29						KJN	iP	17 55 56.2	0.6	18.5
	55.0 N, 165.7 E, 46 km						SOD	iP	17 55 58.2		
	Komandorsky Islands						H: 17 43 14				
20	NUR	iP	17 35 38.0				3.2 N, 125.4 E, 172 km				
20	SOD	eP	18 13 05				Talaud Islands				
20	NUR	iP	18 14 23.9 U	0.9	62.2	21	NUR	iP	18 54 38.7	0.9	30.2
	KJN	iP	18 14 10.1 U	0.9	111.6		KJN	iP	18 54 27.6 D	0.9	43.8
	SOD	iP	18 14 08.8 U				SOD	eP	18 54 26		
		i	16.6				H: 18 41 57.2				
	KEV	iP	18 14 05.1	1.0	59.5		9.7 N, 126.3 E, 63 km				
	H: 18 02 41.4						Mindanao, P.I.				
	19.6 N, 122.0 E, 96 km										
	Philippine Islands										

May				May							
			T	A		T	A				
22	NUR	eP	07 42 21			23	KJN	iP	00 20 16.4	0.9	8.9
		i	25.2				SOD	iP	00 20 06.2		
		eS	46 24								
	KJN	iP	07 42 57.0	0.8	9.2	23	NUR	ePKP	00 21 20		
		e	47 49						H: 00 02 50		
	SOD	iP	07 43 26.8						7.4 S, 155.8 E, 111 km		
			H: 07 37 29.2						Solomon Islands		
			38.7 N, 28.1 E, 40 km								
			Turkey			23	NUR	eP	01 32 23		
22	SOD	iP	07 55 24.2				KJN	eP	01 32 30		
			H: 07 42 50					i	39.5		
			21.2 N, 108.7 W, 53 km						H: 01 25 58		
			Revilla Gigedo Islands						52.8 N, 33.6 W, 33 km (R)		
									North Atlantic Ocean		
22	KJN	eP	11 21 10			23	NUR	iP	01 35 20.0 D		
			H: 11 15 48					e	29		
			38.9 N, 21.4 E, 76 km				KJN	iP	01 35 26.0 D		
			Greece						H: 01 28 53		
22	KJN	eP	13 29 45	1.0	8.7				52.6 N, 33.9 W, 33 km (R)		
									North Atlantic Ocean		
22	KJN	iP	13 53 55.5	0.7	7.5	23	KJN	eP	07 16 25		
22	NUR	eP	16 20 04						H: 07 05 07.7		
	KJN	iP	16 20 05.0						30.9 N, 140.2 E, 97 km		
			H: 16 14 06						South of Honshu, Japan		
			57.9 N, 32.9 W, 33 km (R)			23	NUR	iP	07 17 30.3	1.2	31.4
			North Atlantic Ocean				KJN	iP	07 17 06.1		
22	KJN	iP	16 54 03.2 U	0.4	8.9				H: 07 05 50		
			H: 16 43 17						29.9 N, 140.1 E, 103 km		
			36.7 N, 140.7 E, 53 km (R)						South of Honshu, Japan		
			Honshu, Japan			23	NUR	iP	07 58 30.2		
22	NUR	eP	20 22 46				KJN	eP	07 58 24	0.8	6.2
			H: 20 16 52				SOD	iP	07 58 31.3		
			34.4 N, 26.5 E, 39 km						H: 07 48 26		
			Crete						24.1 N, 95.6 E, 33 km (R)		
									Burma		
22	NUR	eP	22 05 08			23	NUR	iP	08 51 27.3 U	0.9	37.0
	KJN	iP	22 04 30.3 D	1.0	28.3			i	32.9		
								eS	09 01 08		
							KJN	iP	08 51 08.2		
22	NUR	iP	22 30 16.1	1.0	26.0		SOD	iP	08 50 59.9		
		ePcP	48					i	51 24.3		
	KJN	iP	22 29 50.4 D	0.9	13.4		KEV	iP	08 50 51.0		
	SOD	eP	22 29 30					ePS	09 00 18		
	KEV	iP	22 29 15.8 D					e	03 40		
			H: 22 19 35					eSSS	07 54		
			51.9 N, 174.9 E, 33 km (R)						H: 08 39 44.4		
			Near Islands						30.0 N, 139.8 E, 28 km (R)		
									South of Honshu, Japan		

May				May			
		T	A			T	A
23	NUR ePS	12 16	28				
	eSS	21	08				
	KJN eP	12 04	20				
	SOD iP	12 04	03.5				
	KEV eS	12 14	20				
	H: 11 51	30					
	21.4 N, 108.7 W, 58 km						
	Revilla Gigedo Islands						
23	NUR e	14 36	28				
	eS	46	10				
	ePS	47	48				
	KJN iP	14 35	25.9				
	ePP	39	10				
	SOD eP	14 35	20				
	i		23.8				
	e		51				
	KEV iP	14 35	13.0	1.0	30.8		
	i		17.3				
	i		45.0				
	eS	45	26				
	ePS	46	36				
	H: 14 22	32.5					
	13.8 N, 146.4 E, 39 km						
	South of Mariana Islands						
23	NUR eP	15 36	01				
	KJN eP	15 36	15				
	SOD iP	15 36	36.2				
23	NUR iP	20 57	36.0	0.9	26.9		
	KJN eP	20 57	18	0.8	9.2		
	SOD eP	20 57	09				
	H: 20 45	47.5					
	30.2 N, 139.8 E, 25 km (R)						
	South of Honshu, Japan						
24	KJN eP	04 01	25				
	H: 03 49	52.8					
	39.7 N, 121.9 W, 2 km						
	Northern California						
24	KJN iP	06 00	48.0	0.8	5.4		
	SOD iP	06 00	28.4				
	KEV iP	06 00	15.0				
	H: 05 49	06.3					
	39.5 N, 125.5 W, 1 km (R)						
	Off coast of California						
	Chemical explosion						
24	SOD iP	09 45	33.7 D				
	e	48	28				
	cont.						
	KEV iP	09 45	55.0			0.7	10.6
	eS	51	12				
	H: 09 39	26.0					
	37.4 N, 22.1 E, 34 km						
	Southern Greece						
24	SOD iP	11 15	32.0				
	KEV iP	11 15	52.7				
	H: 11 09	26					
	37.5 N, 22.0 E, 47 km						
	Southern Greece						
24	SOD eP	12 10	49				
24	SOD eP	17 50	01				
	H: 17 43	32.1					
	34.9 N, 24.8 E, 45 km						
	Crete						
24	SOD eP	20 32	20				
	H: 20 19	41					
	21.3 N, 108.7 W, 57 km						
	Revilla Gigedo Islands						
25	KJN iP	08 42	46.5			0.7	19.2
	SOD iP	08 42	45.4				
	i		46.2				
	KEV eP	08 42	45				
	eSKS	53	18				
	eS	54	04				
	ePS	55	51				
	eSS	09 01	16				
	H: 08 28	58.6					
	6.4 S, 131.1 E, 39 km						
	Tanimbar Islands						
25	KJN iP	09 12	12.0				
	SOD eP	09 12	38				
	KEV eP	09 13	01				
	H: 09 06	59					
	40.5 N, 19.9 E, 33 km (R)						
	Albania						
25	KJN iP	12 26	12.0			1.3	52.1
	iSKP	29	34.0				
	i		41.0				
	SOD ePKP	12 26	08				
	KEV iP	12 26	05.0			1.5	37.4
	H: 12 07	04.8					
	21.6 D, 169.9 E, 35 km						
	Loyalty Islands						

May		T	A	May		T	A
25	KJN	iPKP <sup>1</sup>	13 40 43.0		26	KJN	eP 10 53 39
		iPKP <sup>2</sup>	51.0 U			SOD	eP 10 53 14
		i	41 03.5				epP 34
		ePP	44 29			H:	10 44 13
		i	41.8				60.8 N, 151.0 W, 95 km
	SOD	ePKP <sup>1</sup>	13 40 43				Kenai Peninsula, Alaska
		iPKP <sup>2</sup>	51.0 U		26	NUR	iPKP 12 18 33.5 1.1 14.3
		i	41 03.8				i 42.0
		ePP	44 29			H:	11 58 56
		e	50 03				30.5 S, 177.6 W, 33 km (R)
	KEV	iPKP <sup>1</sup>	13 40 42.0				Kermadec Islands
		iPKP <sup>2</sup>	49.5 U 2.0 441.5		26	NUR	eP 12 20 04
		e	42 36			H:	12 09 28
		ePP	44 28				46.8 N, 152.6 E, 35 km (R)
		ePPP	47 32				Kurile Islands
		e	48 52		26	NUR	ePKP 12 44 56
		eSKKS	50 52				i 45 04.4
		e	53 07				iSKP 47 56.7
		eSKSP	54 58				e 48 10
		ePPS	57 20			KJN	ePKP 12 44 45
		eSS	14 03 44				i 54.2 1.0 12.0
		e	05 22				epPKP 46 41
	H:		13 20 56.2				iSKP 47 46.0
			52.9 S, 160.0 E, 33 km (R)				i 56.0
			Macquarie Island			SOD	ePKP 12 44 56
							eSKP 47 38
25	KJN	eP	18 26 55				i 45.0
						KEV	ePKP 12 44 53
25	NUR	iP	23 00 51.0				iSKP 47 33.9
	KJN	iP	23 00 31.0 U 0.7 8.2			H:	12 26 23.8
	SOD	eP	23 00 22				25.5 S, 179.8 W, 455 km (R)
	KEV	eP	23 00 13				South of Fiji Islands
	H:		22 49 47		26	NUR	ePKP 18 48 53
			35.6 N, 136.2 E, 33 km (R)				i 49 04.4
			Southern Honshu, Japan				eSKP 52 18
							e 35
26	KJN	eP	00 13 02			KJN	iPKP 18 48 57.0 1.1 25.7
		i	13.0 0.8 6.9				iSKP 52 06.0
	SOD	eP	00 12 44			SOD	ePKP 18 48 52
		i	52.7				iSKP 51 57.0
	KEV	e	00 12 38			KEV	ePKP 18 48 48
	H:		00 02 44				eSKP 51 48
			51.5 N, 175.1 E, 49 km (R)			H:	18 30 07.4
			Rat Islands				21.2 S, 176.9 W, 230 km (R)
							Fiji Islands
26	KJN	eP	00 57 11 1.0 6.5		26	NUR	iP 18 50 50.0
	H:		00 46 52			KJN	iP 18 50 31.8 0.7 6.2
			51.5 N, 176.7 E, 33 km (R)			SOD	iP 18 50 22.5
			Rat Islands				

May				T	A	May				T	A	
26	NUR	eP	21 00 21	1.0	10.0	KEV	iP	14 44 51.4 D	0.8	10.3		
	KJN	iP	20 59 56.0	0.8	7.7	H: 14 35 05						
	SOD	eP	20 59 36			27.4 N, 96.5 E, 51 km						
	H: 20 49 34					Burma-India border						
	51.3 N, 177.5 E, 33 km (R)											
	Rat Islands											
26	NUR	eP	23 10 29			27	NUR	eP	17 22 10			
		i	40.3				KJN	eP	17 22 42			
	KJN	eP	23 10 11					e	24 34			
		i	21.0					eS	27 28			
	SOD	eP	23 10 07				SOD	eP	17 23 24			
	KEV	eP	23 10 01					eS	28 35			
		i	11.0				Moscow:					
	H: 22 59 03						H: 17 16 43					
	28.6 N, 130.3 E, 33 km (R)						41.1 N, 53.2 E					
	Ryukyu Islands						Caspian Sea					
26	NUR	ePKP	23 31 16			27	NUR	eP	19 07 21			
		iSKP	34 13.0				KJN	iP	19 06 46.6	1.3	30.4	
	KJN	ePKP	23 31 14				SOD	iP	19 06 06.8			
		iSKP	34 02.5					i	18.5			
	SOD	ePKP	23 31 10				H: 19 02 13					
		eSKP	33 55				82.4 N, 7.0 W, 33 km (R)					
	H: 23 12 53						North of Svalbard					
	25.4 S, 179.7 E, 525 km (R)					27	NUR	eP	20 11 57			
	South of Fiji Islands						KJN	iP	20 11 43.0	0.8	8.5	
							SOD	iP	20 11 24.4			
27	KJN	eP	00 43 42			27	SOD	eP	21 03 07			
	SOD	eP	00 43 39									
27	NUR	eP	07 39 30			27	NUR	iP	22 18 33.5	0.9	20.2	
	KJN	eP	07 39 25					iPcP	19 01.8			
	SOD	eP	07 40 11				KJN	iP	22 18 08.1	0.8	8.5	
27	NUR	iP	07 45 30.7	1.0	12.3			iPcP	46.1			
27	KJN	iP	10 22 39.0	1.0	13.1		SOD	iP	22 17 48.4			
	SOD	eP	10 22 37					iPcP	18 33.7			
	KEV	eP	10 22 37				KEV	eP	22 17 33			
	H: 10 09 39.6						H: 22 07 43.4					
	0.6 N, 123.6 E, 90 km						51.4 N, 178.5 W, 33 km					
	Northern Celebes						Andreanof Islands					
27	NUR	iP	13 24 19.0	1.1	19.0	27	NUR	iP	22 22 48.2 D	0.8	14.4	
27	NUR	iP	14 35 21.0	0.9	13.4			e	24 21			
27	NUR	eP	14 44 53					iPP	36.0			
	KJN	iP	14 44 44.4 D	0.9	11.6		KJN	iP	22 22 53.9 D	1.0	21.8	
	SOD	iP	14 44 49.8 D				SOD	iP	22 23 12.4 D			
	cont.							ePcP	24 32			
							KEV	iP	22 23 22.7 D	0.8	13.2	
							H: 22 14 14.1					
							24.4 N, 68.7 E, 5 km					
							India-West Pakistan border					

May				T	A	May				T	A
28	NUR	iP	00 15 23.2	0.8	46.1	KJN	iP	06 04 41.0	0.7	19.9	
		i	40.0				i	48.5			
		i	16 04.4			SOD	iP	06 04 37.1			
		i	23.0				i	45.5			
		ePP	18 06			KEV	iP	06 04 31.8 U	0.8	13.2	
		ePPP	19 50				H:	05 53 15.1			
		eS	24 44					23.8 N, 125.1 E, 12 km			
		e	25 36					Southwestern Ryukyu Islands			
	eLQ	00	35.6								
	KJN	iP	00 15 08.0			28	NUR	iP	11 42 51.3		
		i	09.6				KJN	eP	11 42 51		
		e	25								
		eS	24 15			28	KJN	eP	20 46 48		
	SOD	iP	00 15 05.6					H:	20 35 29		
		i	13.0						7.0 N, 35.0 W, 33 km (R)		
		i	20.0						Central Mid-Atlantic Ridge		
	KEV	iP	00 15 01.4	0.8	67.6						
		i	08.7			28	NUR	eP	22 01 01		
		i	15.7					iPcP	30.2		
		ePP	17 31				KJN	iP	22 00 37.0	0.9	
		ePPP	19 10					iPcP	01 14.1	10.7	
		eS	24 09				SOD	iP	22 00 16.0		
		H:	00 03 56.8					iPcP	01 01.8		
			24.4 N, 122.5 E, 33 km (R)					H:	21 50 12		
			Taiwan						51.5 N, 178.4 W, 33 km (R)		
									Andreanof Islands		
28	NUR	iSKP	02 30 51.8			29	KJN	eP	02 36 42		
	KJN	ePKP	02 28 03				SOD	eP	02 37 03		
		iSKP	30 40.3					H:	02 26 13		
	SOD	iSKP	02 30 32.4						0.6 N, 29.8 E, 33 km (R)		
	KEV	iSKP	02 30 25.0						Republic of the Congo		
		H:	02 09 53.4								
			22.2 S, 179.6 W, 600 km (R)			29	NUR	iP	04 06 34.0	0.8	
			South of Fiji Islands				KJN	eP	04 06 10	13.0	
28	NUR	iP	02 33 04.6 D	0.9	15.1		SOD	iP	04 05 55.0		
	KJN	iP	02 32 40.0 D	0.7	6.9			H:	03 55 53		
	SOD	eP	02 32 18						46.5 N, 153.2 E, 33 km (R)		
	KEV	e	02 32 14						Kurile Islands		
		H:	02 22 14			29	NUR	eP	04 42 47		
			52.3 N, 169.9 W, 33 km (R)								
			Fox Islands			29	NUR	eP	10 43 58		
28	NUR	eP	05 32 28				KJN	eP	10 43 56		
	KJN	eP	05 32 09				SOD	iP	10 44 04.6		
	SOD	eP	05 31 58					Moscow:			
		H:	05 21 24					H:	10 31 47		
			36.8 N, 138.0 E, 18 km						0.6 N, 96.8 E		
			Honshu, Japan						Indonesia		
28	NUR	iP	06 04 55.7			29	NUR	eP	12 21 49		
		i	05 11.0								
			cont.								





May

				T	A
29	NUR	ePKP	14 02 48		
		i	57.2	1.2	51.3
		iSKP	05 44.2		
		iPKS	06 32.1		
	KJN	ePKP	14 02 40		
		i	51.0	0.9	23.2
		epPKP	04 42		
		iSKP	05 34.0		
		iPKS	06 21.0		
	SOD	ePKP	14 02 42		
		i	47.2		
		i	59.0		
		iSKP	05 24.5		
		ePKS	06 12		
			H: 13 44 32.9		
			21.6 S, 178.7 W, 516 km (R)		
			Fiji Islands		
29	NUR	eP	15 13 51		
	KJN	eP	15 13 44		
	SOD	iP	15 13 51.0		
			H: 15 03 50		
			24.0 N, 95.2 E, 68 km		
			Burma		
29	NUR	eP	23 00 48	1.0	12.0
30	NUR	iP	03 22 28.3 D	1.0	34.0
	SOD	iP	03 22 24.0 D		
			H: 03 09 34.4		
			7.6 N, 77.0 W, 32 km (R)		
			Northern Colombia		
30	NUR	eP	04 01 54		
30	NUR	iP	14 56 52.0		
		eS	59 46		
		e	15 00 44		
	KJN	eP	14 56 30		
		i	37.0	0.6	4.1
		eS	59 08		
	SOD	eP	14 55 56		
			H: 14 53 01		
			71.3 N, 7.1 W, 33 km (R)		
			Jan Mayen Island		

May

				T	A
30	KJN	iP	15 35 32.2	0.6	4.1
31	NUR	iP	07 53 50.0 D	0.8	22.6
	KJN	iP	07 53 25.6 D	0.8	13.8
	SOD	iP	07 53 04.3 D		
			H: 07 43 00		
			52.3 N, 169.7 W, 33 km (R)		
			Fox Islands		
31	KJN	ePKP	19 10 05		
			H: 18 51 02		
			19.3 S, 167.8 E, 33 km (R)		
			New Hebrides Islands		
31	NUR	ePKP	20 18 52		
	KJN	ePKP	20 18 46		
			H: 19 59 48.2		
			15.2 S, 168.3 E, 19 km		
			New Hebrides Islands		

October 26, 1966

Urmas Luosto  
Aili Huovila



June		T	A	June		T	A
2	NUR iPKP 08 02 01.0 U	0.8	31.7	3	NUR eP 01 40 23		
	KJN iPKP 08 01 51.9 U	1.0	27.3	3	KJN iP 07 25 10.0	0.7	6.9
	H: 07 42 09				SOD iP 07 25 32.0		
	36.8 S, 179.6 W, 33 km (R)				KEV eP 07 25 47		
	East of North Island, N.Z.						
2	NUR iP 08 17 05.0	0.7	18.1	3	NUR iP 14 11 57.3 U	1.0	46.0
	KJN iP 08 16 40.8	0.7	12.3		e 12 15		
	SOD eP 08 16 19				KJN iP 14 11 43.7 U	0.9	48.2
	KEV eP 08 16 02	0.9	11.6		i 12 06.9		
	H: 08 06 15.9				SOD eP 14 11 25		
	52.9 N, 167.0 W, 37 km				KEV iP 14 11 13.0 D	1.0	34.0
	Fox Islands						
2	NUR iP 08 33 44.6 D	0.8	17.3	3	KJN eP 14 47 43		
	KJN iP 08 33 20.0 D	0.8	10.8	3	KJN eP 18 53 11		
	SOD iP 08 32 58.2 D				H: 18 40 41		
	H: 08 23 03.9				1.8 S, 100.4 E, 33 km (R)		
	53.1 N, 166.5 W, 90 km (R)				Southern Sumatra		
	Fox Islands						
2	NUR eP 12 18 51			4	KJN eP 01 47 51		
	KJN iP 12 18 31.0 D	0.5	8.8		H: 01 36 37		
	SOD eP 12 18 21				23.0 N, 121.4 E, 45 km		
	H: 12 07 54				Taiwan		
	36.4 N, 139.3 E, 120 km (R)						
	Honshu, Japan			4	NUR iP 05 18 51.9 U	1.0	304.0
2	NUR iP 15 41 56.5 U	0.8	37.4		ePP 20 23		
	e 42 24				e 21 22		
	KJN iP 15 41 42.7 U	0.7	54.1		eS 24 24		
	SOD iP 15 41 24.2 U				KJN iP 05 18 52.0 U	0.8	111.5
	KEV iP 15 41 12.0 D	0.9	30.2		i 19 43.9		
					iPP 20 19.5		
					eS 24 18		
2	KJN eP 18 44 39				SOD iP 05 19 08.6		
	SOD eP 18 44 53				ePP 20 36		
	H: 18 37 48.3				KEV iP 05 19 17.2 U	0.9	199.9
	36.5 N, 7.4 W, 28 km				i 37.0		
	Straits of Gibraltar				iPP 20 54.3		
					e 21 34		
2	NUR eP 20 00 30				eS 25 12		
	KJN iP 20 00 19.9	0.5	5.9		e 26 22		
	H: 19 47 41				H: 05 11 54.2		
	8.4 N, 125.7 E, 33 km (R)				36.3 N, 70.8 E, 207 km		
	Mindanao, P.I.				Hindu Kush		
2	NUR eP 21 17 17			4	NUR iP 06 22 05.0 U	0.6	38.8
	KJN eP 21 17 07				i 21.0		
2	NUR eP 22 56 19				KJN iP 06 22 39.8	0.7	6.9
	eS 23 00 26				e 23 06		
	KJN eP 22 56 59				e 25 13		
	H: 22 51 27.2				KEV iP 06 23 28.8	0.7	18.1
	38.5 N, 27.4 E, 33 km				H: 06 16 57.4		
	Turkey				36.6 N, 21.0 E, 80 km		
					Mediterranean Sea		

June			June		
	T	A		T	A
4	KJN	iPKP 08 53 02.2 H: 08 35 15.4 14.8 S, 171.2 E, 660 km New Hebrides Islands			
4	KJN	iP 14 42 54.5 U	0.8	10.8	
	SOD	iP 14 42 55.0 H: 14 30 02 5.0 N, 124.3 E, 78 km Celebes Sea			
4	NUR	iP 14 44 19.6			
	KJN	iP 14 43 57.0	0.6	4.8	
	SOD	eP 14 43 43			
	KEV	eP 14 43 26			
4	KJN	iP 15 44 27.6	0.8	6.9	
4	KJN	eP 15 53 31	0.8	4.6	
4	KJN	iP 16 10 23.3 D	0.8	13.1	
	SOD	iP 16 10 22.0			
	KEV	eP 16 10 19 H: 15 57 45 7.6 N, 126.8 E, 80 km (R) Mindanao, P.I.			
4	KJN	eP 17 13 57			
4	KJN	eP 17 39 30			
4	KJN	iP 18 14 54.8	1.0	9.8	
		H: 18 03 40.2 23.1 N, 120.6 E, 29 km Taiwan			
4	NUR	iPKP 21 57 28.4 U	1.1	59.5	
	KJN	ePKP 21 57 16 H: 21 38 16.3 29.9 S, 178.8 W. 214 km Kermadec Islands			
4	NUR	iP 23 58 57.7			
		i 59 12.0	0.8	89.3	
		i 28.3			
	KJN	iP 23 58 34.0	0.9	14.3	
		i 42.9			
		i 48.0			
		e 24 01 52			
		eS 06 50			
		eP'P' 28 07			
	SOD	eP 23 58 17			
		i 32.8 U			
		e 59 11			
		cont.			
	KEV	eP 23 57 56			
		i 58 18.7			
		i 59 10.9 U			
		ePP 24 00 26			
		ePPP 01 22			
		eS 05 56			
		eSS 10 18			
		eLR 24 15.5			
		H: 23 48 17.8 46.5 N, 152.5 E, 27 km (R) Kurile Islands			
5	NUR	eP 02 23 37			
	KJN	iP 02 22 56.4	0.9	6.3	
	SOD	eP 02 22 15			
		i 21.0			
		H: 02 18 47 80.1 N, 2.1 W, 33 km (R) North of Svalbard			
5	KJN	eP 05 01 05			
	SOD	eP 05 01 03			
		H: 04 49 53 24.7 N, 122.3 E, 33 km (R) Taiwan			
5	KJN	eP 08 39 23			
	SOD	eP 08 39 28			
		H: 08 29 23 24.6 N, 93.2 E, 33 km (R) Burma-India border			
5	NUR	iP 09 18 57.2	0.9	13.4	
		eS 23 06			
	KJN	iP 09 19 28.2	0.9	15.2	
	SOD	iP 09 19 58.5			
		H: 09 14 05.6 39.1 N, 29.6 E, 39 km Turkey			
5	KJN	eP 11 34 31			
		H: 11 21 41 0.3 N, 122.0 E, 147 km Northern Celebes			
5	KJN	iP 12 35 07.8 D	0.7	12.3	
5	NUR	iP 20 57 07.0			
		i 10.3			
		i 16.8			
		e 59 05			
		eS 21 01 16			
	KJN	eP 20 57 42			
		cont.			

June			June		
	T	A		T	A
SOD eP	20 58 10			e	55
H:	20 52 01			eS	59 18
	37.2 N, 22.1 E, 33 km (R)			esS	08 00 36
	Southern Greece			eLR	08 01.9
				H:	07 46 16.2
6 NUR iPKP	02 04 46.4	1.0	20.0		36.3 N, 71.2 E, 225 km (R)
i	54.5				Afghanistan-USSR border
KJN iPKP	02 04 40.0	0.8	13.1		
H:	01 45 45.5			6 NUR eP	20 28 55
	14.9 S, 167.8 E, 37 km			KJN iP	20 28 43.6
	New Hebrides Islands			SOD eP	20 28 43
6 KJN eP	02 48 20			6 NUR iP	20 59 54.8 U
				ePP	21 03 20
6 KJN eP	04 45 09			i	04 31.2
e	52			e	07 16
				eSKS	10 18
6 NUR iP	05 08 59.4 D	0.7	21.9	eS	34
i	14 07.9			ePS	11 39
KJN iP	05 09 11.0			e	19 18
e	56			eSSS	20 24
ePP	10 33			KJN iP	20 59 44.7 U
e	14 32			i	21 00 16.0
SOD iP	05 09 35.8			eSKS	10 11
e	10 12			eS	23
e	15 19			SOD iP	20 59 42.5 U
KEV iP	05 09 51.2			e	54
i	10 05.2			eS	21 10 09
H:	05 03 20			KEV iP	20 59 40.2 D
	40.3 N, 53.0 E, 27 km			e	21 02 48
	Turkmen SSR			e	03 50
				eSKS	09 58
6 NUR iP	07 53 14.1 U	1.0	1300.0	eS	10 03
i	39.4			H:	20 47 11.5
epP	58				9.6 N, 126.4 E, 45 km
e	54 12				Mindanao, P.I.
iPP	22.0				
epPP	55 21			6 KJN iP	21 03 25.3
isPP	42.0			e	40
eS	58 44				
esS	59 54			6 NUR eP	21 33 26
eLR	08 01.0			KJN iP	21 33 16.1
KJN iP	07 53 14.0 U				0.6 7.5
SOD iP	07 53 29.7 U			6 KJN eP	21 46 38
e	56 35				
eS	59 12			6 NUR iP	22 27 16.1
e	08 00 36			KJN iP	22 27 05.7 D
KEV iP	07 53 38.4 U	1.0	1040.0	SOD eP	22 27 04
epP	54 22			KEV eP	22 27 01
esP	46				
ePP	55 18			6 NUR iP	23 20 14.7
e	24			i	45.4
	cont.				cont.



June							June							
					T	A					T	A		
	KJN	iP	23 20	04.2	0.6	24.0					ePS	27 51		
		i		17.4							eSS	33 40		
		e		48							eSSS	37 08		
	SOD	eP	23 20	02						eLQ	01 46.1			
	KEV	iP	23 19	59.5						eLR	01 50.2			
	H: 23 07 30										KJN	ePP	01 18 37	
	9.7 N, 126.6 E, 45 km (R)										SOD	ePKKP	01 29 27	
	Mindanao, P.I.										KEV	eP	01 14 06	
6	KJN	eP	23 29	02							ePKP	18 05		
											ePP	28		
											ePPP	20 48		
6	NUR	iP	23 29	17.4 D	1.0	26.0					eSKS	24 52		
		i		31.2							eS	26 12		
	KJN	iP	23 29	07.0 D	0.6	26.7					ePS	27 54		
		e		18							ePPS	29 05		
	SOD	eP	23 29	05							e	32 16		
	KEV	iP	23 29	02.4	1.1	14.3					eSS	33 28		
	H: 23 16 33										e	54		
	9.5 N, 126.5 E, 45 km (R)										H: 00 59 46.6			
	Mindanao, P.I.										15.0 S, 75.8 W, 48 km			
											Near coast of Peru			
6	NUR	eP	23 43	47						7	NUR	eP	03 33 06	
	KJN	iP	23 43	37.0	0.7	9.6					KJN	eP	03 32 59	
	SOD	eP	23 43	30							SOD	eP	03 33 05	
											KEV	eP	03 33 03	
6	NUR	eP	23 49	16							Moscow:			
	KJN	iP	23 49	04.5	0.6	14.4					H: 03 22 27			
	SOD	eP	23 49	03							14.2 N, 82.9 E			
	KEV	eP	23 49	01							India			
	H: 23 36 32										7	NUR	eP	08 49 49
	9.7 N, 127.0 E, 45 km (R)											KJN	iP	08 49 39.0
	Mindanao, P.I.													0.6
7	KJN	iP	00 07	07.0	0.6	7.5								6.2
7	NUR	eP	00 10	50							7	NUR	iP	09 10 14.8
	KJN	iP	00 10	40.0	0.6	6.9						e		27
														0.8
														11.8
7	NUR	iP	00 11	59.9 U	1.0	22.0					7	NUR	iP	09 29 56.0 D
	KJN	iP	00 11	49.7	0.6	30.1						KJN	iP	09 29 41.2 D
		i		55.0								SOD	iP	09 29 38.9 D
	SOD	iP	00 11	47.4 D								KEV	iP	09 29 34.0 D
	KEV	iP	00 11	45.0 D	0.8	11.5						H: 09 18 58.6		
	H: 23 59 16											25.5 N, 122.3 E, 241 km		
	9.6 N, 126.4 E, 45 km (R)											Taiwan		
	Mindanao, P.I.													
7	NUR	eP	01 14	04							7	NUR	iP	11 56 17.7
		e		17 24								e		28
		ePP		18 28								eS	12 05 36	0.9
		e		21 10								eScS	06 16	8.6
		e		52							KJN	iP	11 56 02.8 D	1.0
		eSKS		24 44								i		14.8
		eS		26 12							SOD	iP	11 55 59.2	
	cont.											i		56 12.0
												cont.		

June				T	A	June				T	A
KEV	eP	11 55 54		1.1	17.1	7	NUR	iP	17 44 34.0 D	1.0	20.5
H: 11 44 51.5							KJN	iP	17 44 25.0	0.9	8.9
24.2 N, 122.5 E, 41 km (R)								i	36.0		
Taiwan							SOD	iP	17 44 18.0		
7	NUR	iP	14 12 39.8 U	1.0	118.9			i	28.0		
		i	54.0				KEV	eP	17 43 56		
		i	15 13.4			7	KJN	iP	17 54 18.0	0.6	8.9
		i	16 08.8								
		iPP	16.9			7	NUR	eSKP	19 26 39		
		ePPP	18 12				KJN	ePKP	19 23 56		
		eSKS	23 09					epPKP	26 18		
		iS	30.4					iSKP	29.0		
		ePS	24 58				SOD	iSKP	19 26 20.3		
		e	26 22				KEV	eSKP	19 26 13		
		eSS	29 10				H: 19 05 47.4				
		iPKKP	58.0				21.4 S, 179.3 W, 606 km				
		e	31 03				Fiji Islands				
		eP'P'	38 06			7	NUR	iP	22 31 56.2	1.2	23.4
		eLQ	14 39.0				KJN	iP	22 31 53.1	1.3	28.2
		eLR	14 46.1				H: 22 18 57.4				
KJN	iP	14 12 26.7 U					5.7 S, 105.5 E, 40 km				
	ePP	15 56					Sunda Strait				
	e	16 33				8	KJN	iP	02 51 40.2	0.8	9.2
	e	21 12						e	52		
	eSKS	22 50				8	NUR	eP	06 35 06		
	eS	23 10					H: 06 24 26				
	iPKKP	30 05.7					46.3 N, 152.3 E, 33 km (R)				
	eP'P'	38 09					Kurile Islands				
SOD	iP	14 12 21.8 U				8	NUR	eP	10 57 35		
	i	49.0					KJN	eP	10 57 21		
	e	14 44						e	31		
	iPP	15 35.0					SOD	eP	10 57 18		
	i	52.7					H: 10 46 05				
	e	16 34					23.1 N, 120.9 E, 33 km (R)				
	eSKS	22 46					Taiwan				
	eS	23 04				8	NUR	eP	17 58 35		
	eScS	24					KJN	iP	17 58 26.0 U	0.6	6.9
	ePS	24 38					SOD	eP	17 58 36		
	ePKKP	30 07					Moscow:				
	eP'P'	38 10					H: 17 51 23				
KEV	iP	14 12 16.8 U	1.0	188.0			44.4 N, 83.0 E				
	i	27.9					China				
	ePP	15 44				8	NUR	iP	20 06 52.0 U	1.0	237.8
	ePPP	17 30						i	59.4		
	e	19 12						i	07 17.0		
	iSKS	22 39.5						iPP	09 11.6		
	iS	52.0						i	10 16.4		
	eScS	23 15					cont.				
	e	24 07									
	eSS	28 04									
	eP'P'	38 12									
H: 13 59 36.0											
11.3 N, 139.6 E, 50 km											
West Caroline Islands											

June		T	A
	ePPP	10 50	
	eS	15 24	
	eScS	16 41	
KJN	iP	20 06 26.2 U	
	i	33.8	
	iPcP	07 12.9	
	ePP	08 35	
	eS	14 36	
SOD	iP	20 06 06.6 U	
	i	30.4	
	ePcP	07 02	
	e	56	
KEV	iP	20 05 50.5 U 1.0 72.0	
	i	59.4	
	i	06 06.3	
	e	08 10	
	eS	13 26	
	eScS	15 38	
H: 19 56 21.3			
53.1 N, 171.1 E, 20 km (R)			
Near Islands			
8	NUR eP	20 35 24	
	KJN eP	20 35 42	
8	NUR iP	21 05 41.1 0.8 10.3	
	KJN iP	21 05 31.0 D 0.8 14.6	
	SOD eP	21 05 29	
8	NUR eP	21 12 50	
	KJN iP	21 12 39.8 0.5 5.1	
	SOD eP	21 12 37	
8	NUR eP	21 35 15	
8	NUR iP	21 47 16.1 0.9 10.3	
	KJN iP	21 46 56.6 0.7 4.1	
	SOD eP	21 46 44	
H: 21 35 57.4			
34.4 N, 138.9 E, 33 km (R)			
Honshu, Japan			
8	NUR iP	22 14 00.8 D 0.8 11.8	
	i	12.2	
	KJN iP	22 13 50.2 0.8 28.5	
	i	14 01.9	
	SOD iP	22 13 48.4	
	KEV eP	22 13 46	
	i	58.0	
H: 22 01 14			
9.6 N, 126.7 E, 28 km			
Mindanao, P.I.			

June		T	A
9	NUR eP	00 01 19	
	e	02 35	
9	NUR iP	00 23 38.2 1.0 24.6	
	i	43.7	
	i	52.4	
	eS	33 04	
	eSSS	40 54	
KJN	iP	00 23 37.4 U 0.8 28.5	
	i	42.3	
	eS	33 08	
SOD	iP	00 23 45.8 U	
	i	51.8	
	e	24 40	
	eS	33 22	
KEV	iP	00 23 50.2 D 0.9 31.0	
	i	24 01.5	
	eS	33 26	
H: 00 12 12.1			
7.6 N, 94.1 E, 55 km			
Nicobar Islands			
9	NUR eP	01 53 33	
9	NUR iP	02 07 46.8 D	
	KJN iP	02 07 29.7 U 0.6 6.9	
9	NUR iP	02 07 59.0 D	
	KJN iP	02 07 37.8	
	iPcP	08 17.9	
	SOD eP	02 07 21	
	KEV eP	02 07 11	
H: 01 57 38.0			
45.0 N, 146.4 E, 160 km (R)			
Kurile Islands			
9	NUR iP	02 22 59.0	
	KJN iP	02 22 56.0 0.8 9.2	
	ePP	24 25	
	SOD eP	02 23 13	
Moscow:			
H: 02 15 59			
37.5 N, 72.2 E, 177 km			
Pamir			
9	KJN eP	04 46 37	
9	KJN iP	05 24 06.0	



June						June			
				T	A				
						T			A
9	NUR	eP	07 03 34						
		e(S)	08 32						
	KJN	iP	07 03 08.8 U	0.9	22.3				
		i	17.0						
		eS	07 37						
	SOD	iP	07 02 36.5 U						
		i	39.8						
		i	48.7						
		e	03 07						
		eS	06 27						
	KEV	iP	07 02 11.2 D	0.7	27.7				
		i	40.6						
		eS	05 34						
		e	50						
	H: 06 57 52								
	85.3 N, 92.9 E, 33 km (R)								
	North of Severnaya Zemlya								
9	KJN	iP	07 20 25.0 U	0.9	11.6	9	NUR	eP	16 26 29
	SOD	iP	07 19 52.7			9	NUR	eP	21 32 45
	KEV	eP	07 19 27	0.8	10.3				
	H: 07 15 06								
	85.0 N, 93.9 E, 33 km (R)								
	North of Severnaya Zemlya								
9	KJN	iP	08 50 35.1	0.6	6.9	9	NUR	iP	22 28 12.5 U
								i	24.2
								i	47.0
								eS	37 50
							KJN	iP	22 27 53.7 U
								i	57.6
								SOD	iP
									22 27 45.0 U
								KEV	eP
									22 27 37
									eS
									36 49
									eScS
									37 34
									eSS
									41 08
	H: 11 21 16						H: 22 16 22		
	30.0 N, 142.1 E, 35 km (R)						30.1 N, 142.2 E, 12 km		
	South of Honshu, Japan						South of Honshu, Japan		
9	NUR	iP	13 19 01.6			9	NUR	iP	22 31 58.5 U
	KJN	iP	13 18 40.0 D	0.8	20.0			i	32 01.1
		i	48.8					ePP	33 21
		i	58.6					KJN	iP
									22 32 14.7 U
	SOD	eP	13 18 28					i	17.0
		e	36					ePP	33 47
	KEV	eP	13 18 18					ePPP	34 15
	H: 13 08 10.3							SOD	iP
	39.9 N, 141.6 E, 60 km								22 32 39.2 U
	Honshu, Japan							ePP	34 14
								KEV	iP
									22 32 54.8 U
								i	33 04.0
								ePP	34 35
							H: 22 24 39.0		
							27.6 N, 52.5 E, 8 km		
							Southern Iran		
9	NUR	iP	15 50 01.5 U	0.7	56.8				
		i	08.5						
		iPcP	31.2						
		iS	58 39.0						
		eScS	59 46						
	cont.								

June				T	A	June				T	A	
10	NUR	iP	04 35 54.2	0.8	8.6	10	NUR	iP	14 22 31.2 U	0.7	29.7	
		i	36 06.0				KJN	iP	14 22 07.0	0.8	8.5	
		iPcP	26.3				SOD	iP	14 21 43.1			
	KJN	iP	04 35 29.0 U	0.6	7.5		H: 14 12 15 57.4 N, 155.7 W, 67 km Alaska Peninsula					
		i	40.5				10	NUR	iP	19 21 51.2 U	0.7	27.1
		ePcP	36 11					KJN	iP	19 21 25.9 U	0.9	13.4
	SOD	iP	04 35 09.1					SOD	iP	19 21 06.1		
		ePcP	36 00					KEV	eP	19 20 50		
	KEV	eP	04 34 54				H: 19 11 17.1 52.5 N, 173.6 E, 45 km Near Islands					
		ePcP	35 51									
	H: 04 25 14.3 52.0 N, 175.0 E, 33 km (R) Near Islands											
10	KJN	eP	06 27 20									
10	NUR	eP	09 15 30	0.7	11.6	10	NUR	eP	21 46 21			
	KJN	eP	09 16 18				H: 21 35 39 44.7 N, 149.4 E, 33 km (R) Kurile Islands					
	SOD	eP	09 16 59									
	BCIS: H: 09 11 57 44.9 N, 24.9 E Rumania											
10	NUR	iP	09 16 17.6			10	NUR	eP	22 23 30			
		eS	18 59					eS	30 38			
		e	21 28				KJN	iP	22 23 43.2	1.0	8.7	
		e	36				SOD	iP	22 23 42.0			
	KJN	eP	09 17 05				H: 22 14 37.3 32.9 N, 39.8 W, 8 km North Atlantic Ridge					
		eS	20 22			10	NUR	iP	22 50 04.0 U	0.6	11.3	
		e	42					i	06.7			
	SOD	eP	09 17 49					ePP	51 55			
		iS	21 40.5				KJN	iP	22 49 46.2 U	0.7	27.4	
	KEV	eP	09 18 08					i	49.1			
		e	37					e	50 47			
								e	51 14			
10	NUR	eP	10 53 36				SOD	iP	22 49 46.3			
	KJN	eP	10 53 49					i	49.4			
	SOD	eP	10 53 46				KEV	iP	22 49 43.7	0.6	8.8	
	H: 10 46 53 45.5 N, 28.2 W, 33 km (R) North Atlantic Ridge											
							H: 22 41 48.5 45.1 N, 99.7 E, 33 km (R) Mongolia					
10	NUR	iP	14 19 21.8	0.8	10.1	10	NUR	iP	23 34 21.6 D	1.2	31.4	
	KJN	iP	14 18 59.1 U				KJN	iP	23 33 52.0	1.1	17.6	
		i	19 02.6					i	58.1			
	SOD	iP	14 18 45.4 U					i	34 06.0			
	KEV	iP	14 18 33.5 U	0.8	23.0		SOD	eP	23 33 14			
	Moscow: H: 14 08 27 42.8 N, 149.0 E Kurile Islands											
								eS	35 23			
							KEV	eP	23 32 55			
							H: 23 30 55 72.6 N, 3.1 E, 33 km (R) Norwegian Sea					

June				T	A	June				T	A
11	NUR	eP	02 59 53			KJN	iP	10 27 19.6 D	0.8	10.0	
	KJN	iP	02 59 42.2	0.6	5.5		e	28 00			
							eS	31 52			
11	NUR	iP	03 12 32.0			SOD	iP	10 27 48.7 D			
		i	38.0				i	51.3			
	KJN	iP	03 12 18.0 U	0.7	16.4	KEV	iP	10 28 10.0	1.0	24.0	
		i	23.8				H: 10 21 57				
		i	32.2				38.8 N, 21.7 E, 62 km				
		e	59				Greece				
		eS	21 26			11	NUR	iP	10 49 41.1	0.8	7.4
	SOD	iP	03 12 17.0 U				KJN	iP	10 49 30.5	0.7	6.9
		i	22.2								
		e	13 22			11	NUR	eP	11 30 16		
	KEV	iP	03 12 12.8 U	0.7	15.5		KJN	eP	11 29 54		
		i	29.7			11	NUR	eP	11 32 40		
		eS	21 18				KJN	eP	11 32 17		
		eScS	22 10			11	NUR	iP	12 10 05.4 U	0.9	25.8
		eSS	25 18				i	18.5			
	H: 03 01 08.7						i	11 04.1			
	23.6 N, 119.9 E, 33 km (R)						eS	14 14			
	Taiwan						e	28			
11	NUR	eP	03 21 54			KJN	iP	12 10 41.0	1.0	13.1	
11	NUR	eP	03 53 07				i	54.2			
	KJN	iP	03 52 57.0 D	0.6	6.9	SOD	iP	12 11 09.4			
		i	58.0				e	24			
	SOD	eP	03 52 56			KEV	iP	12 11 29.8 U			
11	NUR	ePKP	05 23 03				H: 12 05 03.2				
		e	28				37.5 N, 21.2 E, 51 km				
	KJN	iPKP	05 22 55.7	0.6	4.1		Southern Greece				
		H: 05 04 15.2				11	NUR	iP	18 24 26.2 U	0.7	19.8
		12.1 S, 166.6 E, 99 km					iPcP	55.0			
		Santa Cruz Islands					i	25 15.4			
11	NUR	iP	06 16 06.9			KJN	iP	18 24 01.7 U	0.8	14.6	
		isP	41.9				i	19.0			
	KJN	iP	06 16 06.2 D	0.6	15.1		iPcP	39.8			
		epP	29			SOD	iP	18 23 41.5			
		e(PP)	17 27				iPcP	24 27.0			
	SOD	iP	06 16 21.9			KEV	eP	18 23 26			
	KEV	eP	06 16 30				ePcP	24 15			
		H: 06 08 49.1					H: 18 13 40.6				
		35.7 N, 72.2 E, 104 km					51.6 N, 178.4 W, 60 km				
		West Pakistan					Andreanof Islands				
11	NUR	iP	10 26 41.7 D	1.0	14.4	11	NUR	iP	22 36 34.8 D	0.5	9.5
		i	45.6				KJN	eP	22 36 35	0.7	4.8
		i	27 07.2				SOD	eP	22 36 51		
		eS	30 34				H: 22 29 37.3				
		e	41				36.6 N, 70.7 E, 192 km				
		cont.					Hindu Kush				



June				T	A	June				T	A		
12	NUR	eP	00 54 14	0.8	9.2	13	NUR	ePKP	07 52 30	0.5	9.5		
	KJN	eP	00 53 54			ePKS	56 16						
	SOD	iP	00 53 44.5			e	48						
	H: 00 43 21.2					ePPP	57 40						
	37.2 N, 138.2 E, 99 km			eSKSP	08 05 10								
	Honshu, Japan			eSS	13 08								
				KJN	ePKP	07 52 21							
12	NUR	eP	02 10 13	0.6	15.1		ePKS	55 43	0.4			9.8	
	KJN	iP	02 09 57.6 U			KEV	ePP	07 54 11					
	SOD	iP	02 09 50.7			e	55 07						
	KEV	eP	02 09 43			eSKKS	08 00 50						
	H: 01 57 47			ePPS	05 32								
	19.2 N, 145.1 E, 191 km			eSSS	15 57								
	Mariana Islands			H: 07 33 13.4									
				21.2 S, 174.1 E, 49 km									
				New Hebrides Islands									
12	NUR	eP	03 22 20			13	NUR	iP		11 34 22.0			
	KJN	eP	03 23 01				KJN	iP		11 34 20.9 D			
							SOD	iP		11 34 36.0			
12	NUR	iPKP	03 52 41.3	0.7	4.1		KEV	iP		11 34 44.0			
	KJN	iPKP	03 52 34.4			H: 11 27 25.4							
	H: 03 33 45.7					37.2 N, 72.4 E, 220 km (R)							
	13.9 S, 166.4 E, 56 km					Tadzhik SSR							
	New Hebrides Islands					13	NUR	iP	12 13 00.7 D	0.8	11.8		
12	NUR	eP	06 03 24				KJN	iP	12 12 36.0	0.8	10.0		
	KJN	eP	06 03 14				SOD	iP	12 12 11.7 U				
							H: 12 02 48						
12	NUR	eP	06 59 39				59.2 N, 152.0 W, 11 km						
	KJN	eP	06 59 13				Southern Alaska						
	H: 06 49 09					13	NUR	eP	13 22 56				
	52.8 N, 170.3 E, 33 km (R)						i	57.2					
	Near Islands						eS	25 43					
12	NUR	eP	14 05 31				e	26 30					
	KJN	eP	14 06 08				e	30 35					
						KJN	eP	13 22 21					
12	KJN	iP	20 33 00.3 U	0.9	17.0		i	23.0					
		i	03.9			iS	24 21.9						
	SOD	iP	20 33 08.5 U			e	29 05						
	H: 20 20 58.1					e	19						
	3.0 S, 28.2 W, 18 km			SOD	eP	13 21 40							
	South Atlantic Ocean				eS	23 13							
					e	30							
					e	43							
					e	27 22							
13	NUR	eP	01 10 37			KEV	eP	13 21 19					
	KJN	eP	01 10 51				eS	22 36					
	H: 01 03 51.3						e	26 25					
	32.1 N, 54.5 E, 67 km					H: 13 19 35							
	Iran					73.1 N, 7.2 E, 33 km (R)							
						Greenland Sea							
13	KJN	iP	01 52 49.5	0.6	4.8								

June			T	A	June			T	A	
13	NUR	eP	14 17 36	0.8	20.6	KJN	eP	18 23 27		
		i	44.0				ePKP	26 54		
		eS	21 18				i	27 00.6		
		e	24				epPKP	28 00		
	KJN	iP	14 16 57.5	0.9	8.9		ePP	31		
		i	17 00.2				eSKP	30 15		
		i	05.1				ePKS	37		
		iS	19 57.0				e	32 57		
	SOD	iP	14 16 14.8				iPKKP	37 05.0		
		i	25.0				iSKKP	40 52.2		
		eS	18 34				i	57.9		
		e	44			SOD	ePKP	18 26 54		
	KEV	eP	14 15 46				i	56.6		
		i	16 00.9				i	58.1		
		e	34				i	28 27.0		
		eS	17 46				ePKS	30 20		
	H: 14 13 00						iPKKP	37 11.8		
	79.9 N, 5.0 E, 33 km (R)						i	15.5		
	Greenland Sea						eSKKP	40 51		
							e	41 07		
						KEV	eP	18 23 10		
13	KJN	eP	14 50 10				iPKP	26 53.5 U	0.6	16.3
	SOD	eP	14 49 32				i	55.0		
		eS	50 59				iPP	28 06.2		
	H: 14 47 22						e	28		
	73.3 N, 7.4 E, 33 km (R)						esPP	29 24		
	Greenland Sea						e	31 37		
							epPPP	51		
							eSKS	33 08		
13	NUR	ePKP	18 26 54				eS	35 12		
		i	27 07.9				ePKKP	37 15		
		i	23.8				i	18.1		
		i	44.4				i	22.8		
		ipPKP	28 07.0				e	28		
		ePP	54				eSP	54		
		esPP	30 12				epPS	38 37		
		iSKP	23.7				eSPP	39 05		
		iPKS	43.4				e	40 04		
		i	31 33.3				eSKKP	55		
		iPPP	41.7				e	41 13		
		epPPP	32 40				eSS	43 52		
		eSKKS	35 30				esSS	45 44		
		eS	36 30				e	47 30		
		iPKKP	52.2				H: 18 08 38.4			
		e	38 15				12.2 S, 167.1 E, 259 km			
		epPS	39 28				Santa Cruz Islands			
		eSPP	40 01							
		e	10			13	NUR	iP	18 39 18.4	0.7 10.6
		eSKKP	27				KJN	eP	18 39 11	0.7 6.9
		e	41							
		e	41 47			14	NUR	eP	02 51 19	0.9 53.3
		eSS	45 14					i	21.0	
		eSSS	50 00					eS	55 51	
	cont.						cont.			

June				June			
		T	A		T	A	
	KJN	iP	02 51 40.4 U		KJN	iP	21 14 26.1 D 1.0 54.5
		i	45.5			epP	15 46
		e	52 17			esP	16 32
	SOD	eP	02 52 09			ePP	17 03
		ePP	53 09			eS	23 10
	KEV	eS	02 57 46		SOD	iP	21 14 18.5 D
	H:		02 45 57			epP	15 43
			38.1 N, 42.8 E, 38 km			i	51.0
			Turkey			e	16 12
14	NUR	ePKP	02 56 58		KEV	iP	21 14 10.7 1.2 111.2
	KJN	ePKP	02 56 50			e(pP)	15 39
	H:		02 38 37			eS	22 38
			20.8 S, 178.6 W, 545 km		H:		21 03 48.3
			Fiji Islands				30.7 N, 138.7 E, 397 km (R)
							South of Honshu, Japan
14	NUR	e	09 30 51		15	KJN	eP 00 01 07
		i	31 15.5			H:	23 50 41
	KJN	e	09 29 28				1.1 N, 30.0 E, 32 km
		eS	30 43				Republic of the Congo
		e	31 42				
		e	32 02		15	NUR	eP 01 15 04
	SOD	eS	09 30 54			iPKP	18 34.3
		e	32 09			i	43.3
		e	27			ePP	20 00
	BCIS:					i	09.0
	H:		09 26.3			eSKS	25 37
			60°1/4 N, 5°1/4 E			eSKKS	26 48
			Norway			eS	28 00
14	KJN	eP	12 06 20	1.0	6.5	ePKKP	42
	SOD	eP	12 06 24			ePS	29 58
	KEV	eP	12 06 32			eSKKP	32 36
	H:		11 54 58			e	33 44
			8.1 N, 37.3 W, 33 km (R)			eSS	36 32
			Central Mid-Atlantic Ridge			KJN	eP 01 14 49
14	NUR	epP	16 54 50				e 15 15
		ePP	56 46				ePKP 18 30
		eSKS	17 02 05				i 44.8
	KJN	iP	16 52 17.6	1.0	12.0		ePP 19 36
		epP	54 35				e 20 20
		ePP	56 20				e 21 08
		iSKS	17 01 56.4				eSKKS 26 35
	SOD	epP	16 54 36				iPKKP 29 01.4
	H:		16 39 50.5				eSKKP 32 28
			5.3 S, 124.5 E, 656 km			SOD	eP 01 14 39
			Banda Sea				ePKP 18 28
							ePP 19 36
							e 54
14	NUR	iP	21 14 44.7 D 0.7 39.6				iPKKP 29 04.3
		epP	16 11				i 13.7
		eS	23 44				eSKKP 32 28
			cont.				cont.

June				June			
		T	A			T	A
KEV	eP	01	14 36				
	e		43				
	e		16 30				
	ePKP		18 23				
	ePP		19 16				
	e		32				
	e		21 12				
	e		22 20				
	eSKS		25 12				
	eSKKS		26 13				
	eS		27 08				
	ePS		28 44				
	ePKKP		29 10				
	e		31 04				
	eSKKP		32 58				
	e		33 00				
	eSS		35 05				
	H:		00 59 45.8				
			10.4 S, 160.8 E, 31 km				
			Solomon Islands				
15	NUR	eP	01 28 24				
15	NUR	iPKP	01 51 43.7 D	0.7	9.2		
		i	46.8				
		i	52 03.8				
		e	36				
		iPP	53 03.4				
		i	15.0				
		eSKKP	02 05 33				
KJN	ePKP	01	51 39				
	i		43.6				
	iPP		52 48.8				
	e		53 00				
	eSKKP	02	05 30				
SOD	ePKP	01	51 31				
	i		38.0				
	ePP		52 23				
KEV	ePKP	01	51 31				
	ePP		52 08				
	H:		01 32 55.5				
			10.2 S, 161.1 E, 33 km (R)				
			Solomon Islands				
15	KJN	eP	02 32 37				
	H:		02 19 47.8				
			17.2 N, 94.9 W, 43 km				
			Chiapas, Mexico				
15	KJN	eP	03 20 19				
15	NUR	iPKP	03 22 21.8	0.8	11.8		
	KJN	ePKP	03 22 13				
	H:		03 03 34.2				
			10.2 S, 160.7 E, 33 km (R)				
			Solomon Islands				
15	NUR	iPKP	06 24 33.0	0.6	12.8		
		i	37.0				
	KJN	ePKP	06 24 20				
	H:		06 04 58.2				
			30.2 S, 177.9 W, 41 km				
			Kermadec Islands				
15	NUR	ePKP	06 32 38	0.7	6.6		
	KJN	ePKP	06 32 31				
		ePP	33 41				
	H:		06 13 52.3				
			10.1 S, 161.0 E, 39 km				
			Solomon Islands				
15	KJN	eP	07 43 01				
	H:		07 30 46				
			10.8 N, 62.3 W, 10 km				
			Near coast of Venezuela				
15	NUR	eP	13 31 29				
15	NUR	eP	15 41 51				
	KJN	iP	15 41 25.2				
	SOD	eP	15 41 06				
	KEV	eP	15 40 48				
	H:		15 31 54				
			56.0 N, 161.8 E, 33 km (R)				
			Kamchatka				
15	NUR	iPKP	16 55 14.4	0.7	6.5		
	KJN	ePKP	16 55 07				
	H:		16 36 24.1				
			10.3 S, 160.7 E, 18 km				
			Solomon Islands				
15	KJN	eP	17 01 44				
15	NUR	eP	17 11 58				
	KJN	iP	17 11 44.1	0.8	9.3		
	SOD	eP	17 11 26				
	KEV	eP	17 11 13				
15	NUR	iP	18 14 43.4	0.8	10.1		
	KJN	iP	18 14 29.4	0.8	13.1		
	SOD	iP	18 14 11.3				
	KEV	eP	18 13 59				

June		T	A	June		T	A
15	KJN ePKP 21 07 54 H: 20 49 21 11.4 S, 167.1 E 151 km Santa Cruz Islands			17	NUR ePKP 01 03 51 KJN ePKP 01 03 46 H: 00 45 02.9 10.3 S, 160.8 E, 33 km Solomon Islands		
15	NUR ePKP 23 02 27 KJN ePKP 23 02 20 H: 22 43 38.2 11.2 S, 167.0 E, 107 km Santa Cruz Islands			17	KJN eP 01 25 41 epP 26 10 SOD eP 01 25 34 H: 01 14 02.0 18.4 N, 68.7 W, 110 km (R) Mona Passage	0.9	6.3
16	NUR iPKP 00 22 36.0 KJN ePKP 00 22 31 H: 00 03 48.5 10.8 S, 161.3 E, 34 km Solomon Islands			17	SOD eP 03 55 10		
16	NUR iP 17 08 23.6 KJN iP 17 08 19.1 H: 16 55 28.5 7.0 S, 107.8 E, 149 km Java	0.8	5.8	17	NUR iP 08 59 11.5 KJN iP 08 58 48.8 SOD iP 08 58 36.4 KEV eP 08 58 25 H: 08 48 33.2 42.4 N, 142.9 E, 67 km (R) Hokkaido, Japan	0.6	10.0
16	NUR iP 17 09 01.1 eS 11 57 KJN iP 17 08 34.8 D i 37.0 SOD iP 17 08 00.9 KEV iP 17 07 48.0 BCIS: 17 05 21 71.6 N, 2.8 W Greenland Sea	0.9	8.9	17	KJN iP 13 00 41.1 U i 57.8 SOD eP 13 00 45	0.8	5.4
16	NUR eS 18 21 20 eSS 25 34 H: 18 01 02 12.9 N, 44.5 W, 30 km North Atlantic Ridge			17	NUR eP 18 41 58 KJN iP 18 42 21.2 U i 41.3 e 43 33 SOD iP 18 42 43.2 ePcP 43 16 H: 18 31 55.1 0.8 N, 30.0 E, 33 km (R) Republic of the Congo	1.2	37.8
16	KJN iP 19 33 49.7 H: 19 21 14 9.4 N, 126.6 E, 33 km (R) Mindanao, P.I.	0.7	4.8	17	NUR eP 21 19 27 eS 20 24 KJN eP 21 20 19 eS 21 54 SOD eS 21 22 59 e 23 18		
16	KJN eP 21 41 34 SOD eP 21 40 51 eS 43 04 KEV eP 21 40 27 eS 42 11			17	NUR ePKP 22 44 50 KJN ePKP 22 44 45 H: 22 26 04.1 10.2 S, 161.0 E, 33 km (R) Solomon Islands		
17	KJN eP 00 15 24						





June				June						
		T	A			T	A			
	KJN eP	08 06	50		KEV eP	19 38	28	1.0	10.0	
	e		07 01		ePcP		39 22			
	ePP		11 25		ePP		40 38			
	e		38		H:	19 28	43.1			
	SOD ePKP	08 11	09			51.7 N,	176.2 W,		57 km	
	H:	07 52	20			Andreanof Islands				
		8.8 S,	149.5 E,							
		East New Guinea			19	NUR eP	20 08		10	
19	NUR eP	13 05	44		KJN eP	20 08	01			
	KJN eP	13 05	18		e		09			
	SOD iP	13 04	53.9		e		23			
	H:	12 56	09.3		SOD eP	20 08	09			
		63.1 N,	152.1 W,							
		105 km (R)			19	NUR eP	22 54		43	
		Central Alaska			KJN eP	22 54	18			
					SOD eP	22 53	56			
					H:	22 43	54.8			
19	NUR iP	18 00	23.0			50.9 N,	177.8 E,		47 km	
	i		33.3			Rat Islands				
	e		02 27		20	NUR eP	01 35		02	
	eS		04 20			iPcP			30.0	
	e		32		KJN eP	01 34	37			
	KJN eP	18 01	01		e		49			
	i		13.7		ePcP		35 18			
	i		28.7		SOD eP	01 34	17			
	SOD eP	18 01	30		ePcP		35 02			
	e		52		KEV e(P)	01 34	14			
	KEV eP	18 01	51		H:	01 24	12.9			
	H:	17 55	32.3			51.5 N,	178.6 W,		34 km (R)	
		38.6 N,	27.4 E,			Andreanof Islands				
		Turkey			20	NUR eP	02 23		37	
19	NUR eP	19 24	20		20	NUR iP	04 21	33.2	0.7	5.2
	KJN eP	19 24	06		KJN eP	04 21	42			
	i		08.9		i		49.4			
	SOD eP	19 24	04		SOD eP	04 22	01			
	KEV eP	19 24	01		KEV eP	04 22	10			
	H:	19 12	49.7		e		16			
		22.6 N,	121.1 E,							
		Taiwan			20	NUR iP	04 42	14.0 U	0.6	11.3
19	NUR iP	19 39	30.3	1.0	22.0	KJN iP	04 41	51.8 U	0.6	10.3
	i		32.0			SOD iP	04 41	39.7 U		
	i		46.3			KEV eP	04 41	29	0.9	8.4
	eS		48 20			H:	04 31	39.1		
	KJN iP	19 39	05.5				41.4 N,	141.7 E,		140 km (R)
	e		19			Hokkaido, Japan				
	ePP		41 31		20	NUR eP	08 09	25		
	SOD eP	19 38	45		KJN eP	08 09	28			
	e		58		H:	07 56	57			
			cont.			11.0 N,	69.6 W,		4 km	
						Venezuela				

June						June					
				T	A					T	A
20	NUR	iP	13 51 25.8			21	NUR	iPKP	13 17 58.0	0.8	8.6
	KJN	iP	13 51 25.6	0.8	4.6		KJN	iPKP	13 18 05.5 D	0.9	32.1
	SOD	eP	13 51 39				e		20		
	KEV	eP	13 51 48	0.8	7.2		eSKP		21 34		
	H: 13 42 57						SOD	ePKP	13 18 10		
	28.7 N, 76.9 E, 33 km (R)						eSKP		21 30		
	Northern India						H: 12 59 00.1				
20	KJN	iP	15 37 17.2	0.7	7.5		57.9 S, 25.7 W, 16 km				
	SOD	eP	15 37 25				South Sandwich Islands				
21	NUR	ePKP	01 02 07			21	NUR	iP	14 33 49.0		
	i		16.0			21	NUR	iP	15 58 21.6 U	0.7	14.2
	ePP		03 54				KJN	iP	15 57 59.0 U		
	eSKP		05 30				SOD	iP	15 57 47.0 D		
	ePS		13 44				H: 15 47 42.6				
	ePPS		15 12				42.1 N, 142.5 E, 72 km				
	e		17 50				Hokkaido, Japan				
	eSS		20 54			21	NUR	eP	18 24 33		
	e		23 54				eS		35 24		
	eSSS		25 04				KJN	iP	18 24 33.2		
	KJN	ePKP	01 02 08				i		50.1		
	ePKKP		12 24				SOD	eP	18 24 20		
	SOD	ePKP	01 01 50				KEV	eP	18 24 17		
	ePKKP		12 29				H: 18 11 43.0				
	KEV	ePP	01 03 02				16.3 N, 94.8 W, 62 km				
	ePS		12 46				Oaxaca, Mexico				
	H: 00 43 13.5					21	NUR	ePKP	19 39 17		
	10.9 S, 165.3 E, 25 km						H: 19 20 27.1				
	Santa Cruz Islands						11.9 S, 166.2 E, 68 km				
21	KJN	iP	01 03 55.6 D	0.6	13.0		Santa Cruz Islands				
	SOD	eP	01 03 54			21	NUR	eP	19 48 19		
21	NUR	eP	03 15 27			21	NUR	iP	19 53 45.5 U	0.7	7.7
	KJN	eP	03 15 06				epP		54 24		
	i		12.2				KJN	iP	19 53 45.6	0.7	5.5
	H: 03 04 08						H: 19 46 45.2				
	34.3 N, 139.2 E, 33 km (R)						36.5 N, 70.9 E, 180 km				
	Honshu, Japan						Hindu Kush				
21	NUR	iP	04 02 19.3 D	0.6	7.5	21	NUR	iP	20 35 30.2		
	KJN	iP	04 02 00.3	1.2	18.9		KJN	eP	20 35 19		
	SOD	iP	04 01 50.8 D			21	NUR	eP	21 11 11		
	H: 03 50 19.2						KEV	eP	21 12 21		
	28.6 N, 142.7 E, 15 km					21	NUR	iP	23 16 54.4		
	Bonin Islands						i		55.9		
21	KJN	iP	13 16 00.6	0.8	10.8		i		17 43.3		
	SOD	eP	13 15 50				cont.				
	H: 13 05 17										
	36.8 N, 138.0 E, 33 km (R)										
	Honshu, Japan										

June				June			
		T	A		T	A	
KJN	eP	23	16 29	KJN	iP	11 48	19.4 D 1.0 33.8
	i		30.7		i		28.3
	i		47.6		i		34.3
	ePcP	17	17	SOD	eP	11 47	56 D
SOD	eP	23	16 12		e	48	04
	i		25.2		e		10
	e		41	KEV	eP	11 47	36
KEV	eP	23	15 58		e		51
	e		16 11	H:	11 38	53.7	
H:	23 06	25.9			61.4 N, 147.6 W,	53 km	
	50.1 N, 157.8 E,	14 km			Southern Alaska		
	Kurile Islands						
21	KJN	eP	23 21 42	22	NUR	eP	19 01 05
	SOD	eP	23 22 12		KJN	iP	19 00 41.9
					SOD	eP	19 00 26
				H:	18 50	25.6	
21	NUR	ePKP	23 56 14		45.4 N, 149.2 E,	33 km (R)	
	KJN	ePKP	23 56 21		Kurile Islands		
	SOD	ePKP	23 56 25				
		eSKP	59 35	22	KJN	iP	19 59 12.7
	KEV	eSKP	23 59 38		SOD	eP	19 59 00
H:	23 37	31.3					
	56.0 S, 27.8 W,	112 km		22	NUR	iP	20 41 59.0
	South Sandwich Islands				i	42	05.4
					epP	43	54
22	NUR	iPKP	02 09 02.7		i	44	07.8
		e	09		esP		44
		e	21		i	45	23.4
	KJN	ePKP	02 08 55		iPP	46	18.5
H:	01 49	52.8			e		26
	17.5 S, 167.2 E,	13 km			e	47	58
	New Hebrides Islands				ipPP	48	05.0
					e	51	07
22	NUR	eP	09 50 49		i		25.0
	SOD	eP	09 49 13		iSKS		52.2
					iSKKS	52	13.5
22	NUR	eP	11 08 53		eSP	54	27
	KJN	eP	11 08 16		ePS	55	30
		i	18.8	0.8	23.1		
		eS	10 17		iPKKP	58	14.6
	SOD	eP	11 07 37		epPKKP21	00	17
		eS	09 07		ePcPPKP	02	13
	KEV	eP	11 07 15		eP'P'	06	09
		eS	08 31		e	08	19
H:	11 05	30		KJN	iP	20 41	51.7 D 1.1 74.3
	73.2 N, 7.5 E,	33 km (R)			i		57.1
	Greenland Sea				i	42	04.8
					ipP	43	46.6
					i	44	06.0
22	NUR	iP	11 48 44.3 D 0.9 37.0		ePP	46	13
		i	53.1 0.9 65.5		e		27
		i	59.0		e	47	25
		cont.			cont.		

June

June

			T	A		T	A	
	ipPP			52.5		esSS	02 50	
	iPPP	48		35.5		eP'P'	06 27	
	e	49		14		e	09 32	
	e	50		27		H: 20 29 03.6		
	e	51		15		7.2 S, 124.6 E, 507 km		
	eSKS			38		Banda Sea		
	i			45.2				
	eSP	54		24				
	ePS	55		13	23	NUR	iP 05 11 49.9 D 0.5 179.5	
	e			45			iPcP 12 24.3	
	ePKKP	58		13			iPP 14 11.4	
	e			46			eS 20 05	
	epPKKP21	00		12		KJN	iP 05 11 27.1 D 0.8 192.3	
	ePcPPKP	02		30			iPcP 12 10.8	
	eP'P'	06		28			ePP 13 40	
	e	08		33			eS 19 22	
SOD	iP	20	41	51.8 D		SOD	iP 05 11 15.4 D	
	i			59.0			iPcP 12 04.0	
	ipP	43		48.0			e 14 56	
	i	44		19.6			eS 19 00	
	ePP	46		00		KEV	iP 05 11 04.2 D 0.7 148.7	
	epPP	47		50			i 15.3	
	i	50		05.2			iPcP 58.1	
	e	51		35			H: 05 01 42.4	
	eSKS			45			43.8 N, 139.9 E, 218 km	
	iPKKP	58		11.0			Eastern Sea of Japan	
	e			45				
	e	21	01	07		23	NUR	iP 05 50 02.6 0.7 10.3
	eP'P'		06	22			KJN	iP 05 49 41.9 D 0.6 15.8
KEV	iP	20	41	51.0	1.5	59.3	SOD	iP 05 49 31.0 D
	i			59.3				H: 05 39 17.5
	epP	43		48				38.5 N, 139.5 E, 143 km
	esP	44		23				Honshu, Japan
	e			38				
	ePP	46		04				
	e			23				
	e	47		08		23	NUR	iP 09 48 40.4 0.7 11.6
	epPP			40				i 46.6
	e	48		52			KJN	iP 09 49 02.0 U 1.0 13.1
	e	51		38			SOD	eP 09 49 15
	eSKS			44				H: 09 37 03
	eS	52		38				14.4 S, 21.8 E, 33 km (R)
	e	53		20				Angola
	eSP	54		02				
	ePS	55		11		23	NUR	eP 12 55 56
	e			36			KJN	eP 12 55 27
	e	56		24			SOD	eP 12 55 05
	ePKKP	58		15				
	e			45				
	e	59		08		23	NUR	eP 17 49 15
	eSS	21	00	05				H: 17 42 05
				cont.				36.3 N, 71.3 E, 111 km
								Afghanistan-USSR border

June						June			
				T	A				
23	NUR	eP	18 21 18			24	KJN	eP	20 12 45
		ePPP	22 14					e	13 30
		H:	18 15 54					H:	20 00 07.0
			35.6 N, 33.6 E, 104 km						6.9 N, 73.1 W, 142 km
			Cyprus						Northern Colombia
23	NUR	iP	22 02 54.1			24	NUR	eP	22 39 15
		i	03 13.0	0.8	10.1			i	18.2
	KJN	eP	22 02 33	0.7	6.9			i	25.4
		i	40.0				KJN	iP	22 39 52.3
		i	53.4	0.7	15.1			i	40 05.0
	SOD	eP	22 02 21					i	13.2
		i	40.8				SOD	iP	22 40 21.3
	KEV	eP	22 02 17				KEV	eP	22 40 43
		i	31.0					H:	22 34 24.7
		H:	21 51 57.4						38.8 N, 21.6 E, 25 km
			38.2 N, 141.4 E, 92 km						Greece
			Honshu, Japan			25	NUR	iP	01 57 58.0 U
24	NUR	eP	02 30 23					i	58 10.6
24	NUR	iP	06 26 17.7	0.7	12.9			i	17.9
	KJN	iP	06 26 09.0					e	02 00 17
	SOD	eP	06 26 03					ePP	50
24	NUR	iP	07 12 19.8					eS	07 40
	KJN	iP	07 12 19.1					eSS	12 38
		H:	07 05 20					eSSS	15 30
			36.6 N, 71.5 E, 194 km				KJN	iP	01 57 40.0 U
			Afghanistan-USSR border					i	44.3
24	NUR	iPKP	08 37 02.5 D	1.1	57.1			i	58 02.5
		i	09.3					e	02 00 17
		e	38 07					ePP	37
		ePKS	40 44				SOD	iP	01 57 31.2 U
	KJN	ePKP	08 36 51					ePP	02 00 07
		i	58.8				KEV	iP	01 57 22.7 U
		ePP	39 53					i	27.1
		ePKS	40 33					i	30.9
	SOD	iPKP	08 36 53.7					e	58 31
	KEV	ePKP	08 36 50					ePP	02 00 10
		H:	08 17 49.1					ePPP	01 49
			26.7 S, 177.3 W, 146 km (R)					eS	06 36
			South of Fiji Islands					eSS	11 01
24	NUR	eP	11 28 23					H:	01 46 10.4
	SOD	eP	11 28 03						29.6 N, 142.1 E, 49 km
24	NUR	eP	18 57 56						South of Honshu, Japan
	KJN	eP	18 57 46			25	KJN	eP	04 54 22
						25	NUR	iPKP	10 50 57.8
							KJN	iPKP	10 50 50.9
								H:	10 32 07.6
									19.7 S, 169.5 E, 199 km
									New Hebrides Islands

June						June							
				T	A					T	A		
25	NUR	iP	11 58 41.6	D	0.8	8.8	26	NUR	eP	13 22 17	0.9	10.1	
	KJN	iP	11 58 59.0					eS	26 40				
	H: 11 52 18							KJN	iP	13 22 44.3	1.1	20.3	
	32.7 N, 48.5 E, 33 km (R)							SOD	eP	13 23 14			
	Western Iran							H: 13 16 58.8					
25	NUR	eP	12 13 41					37.0 N, 36.1 E, 33 km (R)					
	SOD	eP	12 13 50					Turkey					
	H: 12 05 04.7						26	KJN	eP	14 51 57			
	30.5 N, 82.3 E, 53 km							H: 14 40 44					
	Tibet							24.0 N, 122.3 E, 33 km					
25	NUR	eP	13 28 40					Taiwan					
	KJN	iP	13 28 21.5				26	KJN	iP	17 58 33.0	D	0.8	12.3
	SOD	eP	13 28 13					H: 17 45 09.6					
	H: 13 16 49.9							9.3 S, 111.7 E, 33 km					
	29.3 N, 141.9 E, 41 km							South of Japan					
	South of Honshu, Japan						26	NUR	eP	20 27 21			
25	NUR	eP	14 33 56					KJN	iP	20 27 09.0	U	0.5	5.9
25	NUR	eP	17 37 22				26	NUR	iP	23 40 42.0			
	KJN	eP	17 37 26					i	45.0				
	ePP	40 57						KJN	iP	23 40 28.9			
	SOD	iP	17 37 15.4					i	32.2				
	H: 17 24 38.9							SOD	eP	23 40 31			
	13.7 N, 91.2 W, 119 km							KEV	eP	23 40 29			
	Near coast of Guatemala							H: 23 30 52.5					
25	NUR	iP	21 42 38.7	1.0	16.4			31.9 N, 104.0 E, 33 km (R)					
	KJN	iP	21 42 13.0	0.8	8.5			Szechwan, China					
	SOD	iP	21 41 53.2				27	NUR	ePKP	08 58 01			
	KEV	eP	21 41 37					e	09				
	H: 21 32 12							KJN	ePKP	08 58 00			
	53.3 N, 171.1 E, 33 km (R)							H: 08 38 45.8					
	Near Islands							22.7 S, 175.8 W, 60 km (R)					
26	SOD	eP	05 34 02					Tonga Islands					
26	NUR	eP	07 45 58				27	NUR	iPKP	10 35 31.0	D	0.6	20.0
	KJN	iP	07 45 38.0	1.1	16.2			epPKP	36 34				
	SOD	iP	07 45 28.5					KJN	iPKP	10 35 23.0	0.6	8.2	
	H: 07 34 55.8							i	27.0				
	36.8 N, 138.1 E, 33 km (R)							epPKP	36 29				
	Honshu, Japan							SOD	ePKP	10 35 18			
26	NUR	iP	11 05 50.0	D	0.8	11.5		e	36 13				
	KJN	iP	11 05 43.1	U	0.5	8.1		KEV	iPKP	10 35 13.3	D	0.9	42.0
	SOD	iP	11 05 50.9	D				e	33				
	H: 10 56 09							epPKP	36 16				
	26.3 N, 93.0 E, 48 km							H: 10 16 09					
	Eastern India							38.8 S, 175.2 E, 233 km					
								North Island, N.Z.					



June						June					
				T	A					T	A
27	NUR	iP	10 49 46.7	1.2	441.8	SOD	iP	11 08 05.8 U			
		ePP	51 38				ePP	10 05			
		eS	56 50				eS	15 13			
	KJN	iP	10 49 44.1 U	1.0	114.5	KEV	iP	11 08 12.0 U	1.1	361.8	
		i	50.0				i	10 41.6			
		e	52 50				iPPP	11 08.6			
		eS	56 34				eS	15 20			
		ePS	48				H:	10 59 18.1			
	SOD	iP	10 49 56.0 U					29.7 N, 81.0 E, 40 km			
		i	57.2					Nepal-India border			
		iPcP	50 14.2			27	NUR	iP	11 30 21.7	1.0	30.0
		ePP	51 40				KJN	iP	11 30 19.0	0.7	15.1
	KEV	iP	10 50 02.5 U					eS	37 13		
		i	13.0				SOD	iP	11 30 31.1		
		i	23.1					e	37		
		ePcP	51 21				KEV	iP	11 30 37.2		
		ePP	52 00					i	47.1		
		ePPP	53 10				H:	11 21 43			
		eS	57 14					29.7 N, 80.8 E, 33 km (R)			
		H:	10 41 08.6					Nepal-India border			
			29.7 N, 80.9 E, 37 km								
			Nepal-India border								
27	NUR	iP	10 56 24.0	0.8	18.7	27	NUR	iP	11 32 47.0	1.0	22.0
	KJN	eP	10 56 21				KJN	eP	11 32 45		
	SOD	eP	10 56 33					eS	39 40		
	KEV	iP	10 56 39.7 D	0.7	28.4		KEV	iP	11 33 03.5	0.6	13.8
		H:	10 47 43								
			29.5 N, 80.9 E, 28 km								
			Nepal-India border								
27	NUR	iP	10 58 19.6	1.0	34.0	27	NUR	iP	11 39 30.9		
	KJN	iP	10 58 16.7	1.1	47.3		KJN	iP	11 39 28.0	1.1	23.0
	SOD	iP	10 58 28.5				SOD	iP	11 39 40.0		
	KEV	iP	10 58 34.8	0.9	30.2		KEV	iP	11 39 46.2	0.6	8.8
27	NUR	iP	10 58 28.0 D	0.7	108.4						
		eS	11 05 26								
	KJN	iP	10 58 25.7 D	0.8	153.8						
		i	35.5								
		eS	11 05 21								
	SOD	iP	10 58 37.2								
		ePP	11 00 36								
	KEV	iP	10 58 42.1 D	0.9	127.7						
		i	11 00 56.7								
		H:	10 49 50.0								
			29.8 N, 80.7 E, 33 km (R),								
			Nepal-India border								
27	NUR	iP	11 07 56.3 U	1.0	312.0	27	NUR	eP	15 01 15		
		eS	14 53					eS	02 53		
	KJN	iP	11 07 53.7 U					i	03 56.4		
		eS	14 49					KJN	eP	15 00 57	
			cont.						eS	02 21	
									e	30	
									e	03 13	
										cont.	



June				T	A	June				T	A	
	SOD	eP	15 00 39			28	NUR	iP	04 21 06.0	0.8	10.1	
		eS	01 45				KJN	iP	04 20 52.0	1.0	10.9	
		e	02 18					i	56.4			
	KEV	eP	15 00 44				SOD	iP	04 20 33.4			
		e	01 32				KEV	eP	04 20 24			
		eS	49				H: 04 08 54.7					
		e	02 36				35.8 N, 120.6 W, 5 km					
							Central California					
27	NUR	ePKP	22 06 43			28	NUR	eP	04 38 24			
		i	50.2 U	1.1	197.5			i	29.0			
	KJN	iPKP	22 06 38.2	1.3	36.9			eS	48 24			
		i	42.0 U	1.2	161.7		KJN	eP	04 38 10			
		i	50.8					i	15.3			
		e	07 09				SOD	eP	04 37 51			
		e	54					e	56			
	SOD	iPKP	22 06 36.8					e	38 14			
		e	07 15				KEV	eP	04 37 42			
	KEV	iPKP	22 06 31.0	1.3	88.7			i	47.2			
		i	36.6					eS	47 09			
		ePP	09 49					eSS	52 10			
		iSKP	10 00.4				H: 04 26 12.4					
	H: 21 47 05.5						35.9 N, 120.5 W, 4 km					
	38.0 S, 177.2 E, 54 km						Central California					
	North Island, N.Z.											
27	NUR	eP	22 57 06			28	KJN	eP	15 52 15			
	KJN	eP	22 57 01				SOD	eP	15 52 28			
		e	26				KEV	iP	15 52 34.0	0.8	14.4	
	H: 22 44 22.1						H: 15 43 37					
	7.3 N, 125.0 E, 39 km						29.4 N, 81.1 E, 33 km (R)					
	Mindanao, P.I.						Nepal					
27	NUR	eP	23 36 27			28	NUR	iP	16 59 05.0	1.0	40.0	
							KJN	iP	16 58 49.2 D	0.9	26.8	
								i	59 10.0			
	28	NUR	iP	00 04 54.7	0.7	10.3		SOD	iP	16 58 45.2 D		
			eS	07 33				KEV	iP	16 58 39.1	1.1	19.0
			e	53			H: 16 47 49					
	KJN	eP	00 05 39				27.0 N, 125.9 E, 100 km					
		eS	08 57				Taiwan					
		e	10 29									
	SOD	eP	00 06 14			28	NUR	eP	23 08 29			
		e	44				KJN	eP	23 08 12			
	H: 00 01 32.0						SOD	eP	23 08 09			
	45.6 N, 26.5 E, 149 km						H: 22 57 03.3					
	Rumania						24.7 N, 121.6 E, 33 km					
							Taiwan					
28	NUR	iPKP	01 18 27.0 D	0.6	10.0	29	NUR	eP	00 50 50			
	KJN	ePKP	01 18 20				KJN	eP	00 50 48	1.0	12.0	
	H: 00 59 54.4						H: 00 42 08.6					
	12.6 S, 167.1 E, 233 km (R)						29.8 N, 81.0 E, 12 km					
	Santa Cruz Islands						Nepal-India border					



June				T	A	June				T	A
29	NUR	eP	00 54 03	1.0	13.1	29	NUR	iPKP	22 05 52.6 U	0.9	18.5
	KJN	eP	00 54 41			ePP	07 30				
	SOD	eP	00 55 09			e	08 44				
	H: 00 49 34.2		ePS			17 38					
	41.2 N, 20.4 E, 17 km			ePPS	18 50						
	Albania			e	22 12						
29	NUR	eP	05 46 18			KJN	iPKP	22 05 46.0			
		e	25				ePP	07 17			
	KJN	eP	05 46 10			SOD	ePKP	22 05 42			
		e	47 10			KEV	ePKP	22 05 37			
		e	51 46				ePP	06 54			
	SOD	e	05 47 24				ePS	16 36			
		e	52 49				eFPS	17 44			
	Moscow:						H: 21 46 54.5				
	05 40 10						13.8 S, 166.7 E, 35 km				
	39.8 N, 54.6 E						New Hebrides Islands				
	Turkmen SSR					29	NUR	eP	23 02 52		
29	NUR	iP	07 04 21.6 U	0.6	27.5	KJN	iP	23 02 34.0	1.0	12.0	
		e	05 10				i	03 15.1			
	KJN	iP	07 04 08.6 U	0.6	60.9	SOD	iP	23 02 31.7			
		e	38				e	43			
	SOD	iP	07 04 15.7 U			KEV	eP	23 02 27			
	KEV	iP	07 04 18.5 U	0.5	15.8		H: 22 51 22.7				
		e	49				24.2 N, 122.5 E, 33 km (R)				
		e	05 14				Taiwan				
	H: 06 57 58.1					30	KJN	eP	02 42 38		
	49.9 N, 78.0 E, 0 km (R)					30	NUR	eP	04 53 51	1.2	19.9
	Eastern Kazakh SSR										
29	NUR	eP	09 46 40			30	NUR	iP	09 09 16.0 D	0.7	157.4
29	KJN	eP	17 37 13				iPcP	53.0			
29	NUR	eP	17 45 38	1.0	16.0		iS	16 54.0			
	KJN	iP	17 45 28.6	1.0	10.9	KJN	iP	09 08 54.8 D	0.7	79.5	
	SOD	iP	17 45 22.8				iPcP	09 38.0			
		i	29.8				iPP	11 06.9			
	KEV	iP	17 45 15.8 U	1.0	16.0		iS	16 14.0			
29	NUR	eP	20 05 35	0.9	15.1	SOD	iP	09 08 44.7 D			
		i	42.4				i	48.4			
	KJN	iP	20 05 20.6	1.0	12.0		iPcP	09 35.0			
	SOD	iP	20 05 02.3			KEV	iP	09 08 35.0 D	1.0	112.0	
		e	09				iPcP	09 30.0			
	KEV	eP	20 04 50				eS	15 38			
	H: 19 53 24.1						H: 08 59 48.3				
	35.8 N, 120.5 W, 5 km						43.6 N, 132.2 E, 454 km				
	Central California						Eastern Russia				
29	KJN	eP	21 43 34			30	NUR	iP	09 36 26.3		
	SOD	iP	21 43 42.9				SOD	eP	09 35 49		
	KEV	eP	21 43 48				H: 09 25 41				
							43.6 N, 147.2 E, 33 km (R)				
							Kurile Islands				

June				T	A	June				T	A
30	KJN	iP	10 03 03.5	0.7	10.3	30	NUR	iP	22 26 55.8 U	1.1	85.7
			H: 09 52 12					i	27 14.8		
			35.8 N, 141.2 E, 66 km					e	34		
			Honshu, Japan					ePP	29 34		
30	NUR	iP	12 40 26.2	1.4	61.5		KJN	iP	22 26 42.5 U	0.9	93.8
		eSKS	50 48					i	27 01.0		
		eS	51 06					ePP	29 23		
		eSP	52 10				SOD	iP	22 26 23.7 U		
		eSS	57 26					i	42.5		
	KJN	iP	12 40 15.0	1.2	98.0			e	27 18		
		eS	50 43					e(PP)	28 50		
	SOD	iP	12 40 13.8				KEV	iP	22 26 11.0 U	0.8	34.6
		eSKS	50 42					i	29.8		
	KEV	iP	12 40 11.0					i	48.2		
		e	22					ePP	28 18		
		eSKS	50 28								
		eS	34								
			H: 12 27 41.9								
			9.6 N, 126.7 E, 44 km								
			Mindanao, P.I.								
30	NUR	eP	12 58 22								
	KJN	iP	12 58 05.2								
	SOD	eP	12 58 03								
30	NUR	iP	15 56 50.0								
		eS	16 06 10								
	KJN	iP	15 56 36.0	1.1	33.8						
	SOD	iP	15 56 33.6								
	KEV	iP	15 56 28.8	0.7	12.9						
			H: 15 45 26.0								
			24.4 N, 122.2 E, 47 km								
			Taiwan								
30	NUR	eS	21 42 30								
		e	43 10								
	KJN	eS	21 42 32								
		e	43 03								
		e	38								
	SOD	eS	21 42 31								
		e	43 18								

November 14, 1966

Urmas Luosto  
Aili Huovila

1966

Underwater explosions in the Gulf of Bothnia

Date	Time	Coordinates	Depth(m)	Charge(kg)
May 26	09 06 00.14	61.650N 20.136E	139	70
26	09 47 00.21	61.647 20.066	143	200
26	11 07 00.93	61.644 19.966	125	200
26	11 55 01.38	61.638 19.863	95	200
26	15 36 01.42	61.668 20.589	115	70
26	16 38 01.14	61.672 20.691	98	200
26	17 25 01.62	61.676 20.802	60	200
27	09 38 59.41	61.688 21.111	38	70
27	10 37 01.01	61.686 21.042	65	200
27	11 29 59.42	61.682 20.937	58	200
27	12 06 59.76	61.678 20.835	64	250
Jun. 01	11 24 59.60	61.648 20.102	140	70
01	11 57 59.60	61.653 20.205	133	200
01	12 44 59.60	61.657 20.313	142	200
03	07 16 00.26	61.658 20.346	143	250
03	07 59 00.38	61.662 20.448	138	200
03	08 56 00.19	61.666 20.555	115	200
03	10 17 00.28	61.669 20.622	100	70
03	14 53 01.14	61.694 21.287	25	200
03	16 04 00.82	61.691 21.180	45	200
03	16 38 01.13	61.687 21.077	45	70
07	10 45 00.71	61.968 21.246	28	70
07	14 19 01.22	61.790 21.000	44	70
07	14 41 01.13	61.764 20.960	68	200
07	15 34 01.24	61.724 20.895	55	200
07	16 36 01.90	61.685 20.826	65	250
08	07 36 00.75	61.670 20.808	66	200
08	08 18 00.69	61.629 20.750	84	200
08	09 07 00.78	61.588 20.693	97	70
08	13 27 01.57	61.410 20.432	136	70
08	13 53 01.77	61.384 20.391	145	200
08	14 31 01.91	61.345 20.325	135	200
08	15 20 00.51	61.307 20.255	130	300
09	10 40 01.00	61.479 20.526	126	200
09	11 18 00.64	61.437 20.471	132	200
09	12 19 00.99	61.397 20.411	140	70
09	15 37 01.46	61.226 20.138	137	70
09	16 02 01.49	61.201 20.077	128	200
09	16 51 01.46	61.163 20.009	128	200
09	17 31 01.81	61.124 19.951	125	250
10	07 38 00.71	61.213 20.108	135	70
10	08 02 00.96	61.252 20.194	136	200
10	08 39 00.45	61.294 20.236	134	200
10	11 33 01.30	61.044 19.851	125	70
10	11 59 01.44	61.017 19.813	133	200
10	12 32 01.72	60.977 19.755	148	200
10	13 11 01.85	60.937 19.694	107	250
15	10 23 00.04	61.495 20.551	120	250
15	10 57 00.01	61.534 20.616	107	200
15	11 39 00.10	61.574 20.675	100	200
15	12 24 00.20	61.601 20.713	93	70

Date	Time	Coordinates		Depth(m)	Charge(kg)
Jun. 16	07 07 01.01	61.778N	20.980E	65	70
16	07 28 01.09	61.818	21.039	38	200
16	08 03 01.22	61.859	21.098	33	200
16	12 03 01.39	61.866	21.109	30	70
17	09 41 00.95	61.113	19.942	125	200
17	10 32 00.92	61.072	19.884	122	200
17	11 13 00.83	61.029	19.838	128	70
17	14 56 01.62	60.852	19.573	93	70
17	15 18 01.76	60.825	19.532	94	200
17	17 55 00.93	60.784	19.472	91	200
17	18 45 01.22	60.742	19.412	87	300
18	08 18 00.48	60.839	19.552	97	70
18	08 46 00.94	60.880	19.611	90	200
18	09 24 00.80	60.920	19.675	107	200
20	15 14 00.52	62.268	21.018	40	70
20	15 42 00.50	62.285	20.960	40	200
20	16 07 00.54	62.313	20.865	42	200
20	16 55 00.45	62.341	20.774	66	250
21	08 22 08.27	62.222	21.174	22	200
21	09 12 00.66	62.250	21.080	34	200
21	09 45 00.50	62.276	20.989	40	70
21	12 50 01.26	62.394	20.598	77	70
21	13 10 01.26	62.411	20.538	82	200
21	14 14 01.59	62.439	20.447	77	200
21	15 09 01.89	62.466	20.357	88	285
28	11 25 00.55	62.519	20.184	105	70
Jul. 02	07 23 00.86	62.536	20.125	114	200
02	08 14 01.22	62.564	20.035	90	200
02	08 59 01.06	62.592	19.946	135	285
02	11 47 01.54	62.402	20.568	77	70
02	12 14 02.82	62.375	20.658	71	200
02	12 45 01.70	62.348	20.748	63	200
03	10 44 16.85	62.409	20.547	68	500
03	11 41 16.16	62.422	20.506	74	400
03	12 46 00.95	62.472	20.335	83	200
03	13 25 00.45	62.501	20.243	102	200
03	14 03 00.95	62.528	20.153	110	70
05	17 22 01.12	64.714	22.952	96	70
05	17 39 01.09	64.703	23.026	86	70
05	21 06 00.75	64.730	22.850	108	70
05	21 42 00.96	64.741	22.775	85	200
06	11 11 00.81	64.667	23.258	82	70
06	11 29 00.66	64.656	23.329	85	70
06	11 53 00.84	64.640	23.436	78	200
06	12 33 01.18	64.622	23.548	85	200
06	17 38 01.54	64.651	23.362	88	70
06	18 02 01.35	64.664	23.284	85	200
06	18 50 01.38	64.679	23.185	97	200
06	19 27 01.52	64.696	23.072	84	250
07	08 35 00.69	64.589	23.751	33	70
07	08 52 00.47	64.577	23.819	34	70
07	09 15 00.62	64.560	23.926	26	200
07	10 20 00.92	64.541	24.039	26	245
07	13 54 01.03	64.571	23.858	42	70
07	14 12 01.41	64.583	23.785	26	200
07	14 46 00.99	64.600	23.679	49	200
07	15 16 00.91	64.617	23.579	62	250

July

T A

July

T A

1 KJN eP 02 07 23  
 1 NUR iP 06 01 53.5 D 1.3 886.6  
 iPcP 02 10.0  
 ipP 22.0  
 i 32.0  
 iPP 04 29.2  
 e 05 06  
 i 33.0  
 e 06 08  
 iPPP 24.0  
 eS 11 06  
 eScS 52  
 e 12 34  
 eSS 15 38  
 eP'P' 29 28  
 eLQ 06 22.1  
 eLR 06 25.1  
 KJN iP 06 01 38.2 U  
 eS 10 40  
 eScS 11 26  
 iP'P' 29 35.0  
 SOD iP 06 01 36.2 U  
 i 51.0  
 i 02 15.2  
 ePP 04 05  
 e 05 33  
 ePPP 56  
 e 08 19  
 eP'P' 29 35  
 i 39.1  
 KEV iP 06 01 31.5 U  
 i 42.1  
 iPcP 56.2  
 e 02 12  
 e 03 50  
 iPP 04 25.0  
 e 47  
 ePPP 05 45  
 e 06 11  
 eS 10 25  
 eScS 11 12  
 e 15 51  
 eSSS 18 12  
 e 19 00  
 eP'P' 29 40  
 eLR 06 23.0  
 H: 05 50 39.2  
 24.8 N, 122.5 E, 117 km  
 Taiwan

1 NUR iP 19 16 01.3 U 0.9 25.2  
 i 13.8  
 KJN iP 19 15 35.9 U 1.1 21.6  
 SOD iP 19 15 15.7  
 ePcP 16 07  
 H: 19 05 26.5  
 52.3 N, 174.2 E, 56 km  
 Near Islands  
 1 NUR ePKP 19 38 46  
 eSKP 41 35  
 KJN ePKP 19 38 44  
 H: 19 20 22  
 23.7 S, 179.9 W, 496 km  
 South of Fiji Islands  
 1 NUR eP 20 30 22  
 KJN eP 20 30 19  
 SOD eP 20 30 09  
 H: 20 17 49.3  
 13.7 N, 88.4 W, 201 km  
 El Salvador  
 2 NUR eP 10 59 46  
 KJN eP 10 59 24  
 2 NUR eP 11 31 33  
 KJN iP 11 31 58.0  
 SOD eP 11 32 18  
 H: 11 21 30.4  
 0.9 N, 30.1 E, 33 km (R)  
 Uganda  
 2 NUR iP 23 00 59.0  
 KJN iP 23 01 11.0 0.8 7.7  
 SOD iP 23 01 11.6  
 H: 22 48 31.6  
 6.5 S, 124.8 E, 565 km  
 Banda Sea  
 3 KJN eP 02 38 24  
 3 NUR eP 04 06 00 1.1 33.3  
 ePcP 29  
 KJN iP 04 05 35.8 U 0.7 15.1  
 SOD iP 04 05 14.3  
 KEV iP 04 04 58.0 0.8 15.8  
 e 05 19  
 H: 03 55 15.7  
 52.5 N, 170.2 W, 69 km  
 Fox Islands

1 NUR eP 08 25 25  
 KJN iP 08 25 24.0 0.7 8.9  
 SOD eP 08 25 17

cont.

July				July							
	T	A		T	A						
SOD ePKP	04	28	45								
KEV e	04	28	48								
H: 04 09 30											
21.1 S, 174.2 W, 33 km (R)											
Tonga Islands											
3 NUR iP	12	54	05.8								
e		59	51								
KJN iP	12	54	05.0	0.7	6.9						
ipP			51.1								
SOD iP	12	54	21.0								
epP			55 08								
KEV iP	12	54	29.8								
H: 12 47 08											
36.2 N, 71.1 E, 229 km											
Afghanistan-USSR border											
4 NUR ePKP	00	23	19								
SOD ePKP	00	23	20								
H: 00 03 55											
58.8 S, 69.3 W, 33 km (R)											
Drake Passage											
4 KJN iP	01	54	17.5								
SOD eP	01	54	15								
H: 01 43 23											
25.0 N, 122.5 E, 179 km											
Taiwan											
4 KJN eP	02	37	19								
4 NUR iP	03	06	19.0 U	0.8	86.4						
i			28.8								
i			32.4								
e			44								
iPcP			50.0								
KJN iP	03	05	54.1 U	1.0	88.3						
i		06	03.5								
iPcP			35.0								
eP'P'			34 55								
SOD iP	03	05	33.9 U								
i			41.8								
i			57.6								
iPcP		06	22.7								
eP'P'			35 05								
KEV iP	03	05	17.7 U	0.9	40.3						
i			31.9								
i			39.0								
ePcP		06	07								
H: 02 55 35.9											
51.8 N, 176.4 E, 28 km											
Rat Islands											
				4	NUR	eP	03 25 15				
					KJN	iP	03 24 50.0	0.9	9.8		
					SOD	iP	03 24 30.3				
				4	NUR	ePKP	07 40 38				
					i		45.0				
					eSKP		43 23				
					KJN	iPKP	07 40 35.4	0.8	6.2		
					eSKP		43 11				
					iPKS		44 06.2				
					SOD	ePKP	07 40 29				
					iSKP		43 04.0				
					KEV	ePKP	07 40 27				
					iSKP		42 56.6				
					H: 07 22 26						
					22.1 S, 179.6 W, 600 km (R)						
					South of Fiji Islands						
				4	KJN	eP	08 52 55				
					SOD	iP	08 53 11.1				
					H: 08 45 50						
					36.6 N, 70.9 E, 120 km						
					Hindu Kush						
				4	NUR	iP	12 22 48.1 U	1.0	16.0		
					e		24 06				
					ePP		24				
					iPcP		25 01.1				
					e		28 28				
					eS		40				
					eLR		12 33.2				
					KJN	iP	12 23 07.0				
					iPcP		25 08.1				
					eS		28 57				
					SOD	iP	12 23 11.5				
					i		34.1				
					ePP		24 50				
					ePcP		25 09				
					eS		29 26				
					KEV	iP	12 23 20.0 U				
					e		54				
					ePP		24 57				
					iPcP		25 13.1				
					e		27 28				
					eS		29 38				
					eSS		32 51				
					eLR		12 35.0				
					H: 12 15 28.1						
					37.5 N, 24.8 W, 33 km (R)						
					Azores Islands						
				4	KJN	eP	13 11 36				





July						July			
				T	A			T	A
5	NUR	eP	03 06 03			5	NUR	eP	23 28 55
5	NUR	iPKP	03 41 30.3	0.8	13.0		KJN	eP	23 29 44
		ePKS	44 58			6	NUR	iP	04 29 17.0
	KJN	ePKP	03 41 22				KJN	iP	04 29 57.0
		iPKS	44 43.2				SOD	eP	04 30 24
	SOD	iPKP	03 41 17.5				e		38
	KEV	ePKP	03 41 13				H:	04 24 40.5	
	H:	03 22 45.2						40.9 N, 15.7 E, 25 km	
		15.2 S, 174.9 W, 252 km						Southern Italy	
		Tonga Islands				6	KJN	eP	04 40 07
5	NUR	eSKP	04 09 42			6	KJN	ePKP	05 11 15
	KJN	iSKP	04 09 30.0					eSKP	14 39
	H:	03 48 47.6					SOD	ePKP	05 11 21
		17.9 S, 178.7 W, 550 km (R)					H:	04 52 12.8	
		Fiji Islands						60.5 S, 26.8 W, 81 km	
5	NUR	eP	04 16 39					South Sandwich Islands	
	KJN	eP	04 16 28			6	NUR	eP	06 29 19
5	KJN	eP	05 15 19				KJN	iP	06 28 54.6
5	NUR	iP	05 16 26.0	1.2	22.8		SOD	iP	06 28 29.9
		i	31.6				H:	06 19 33	
		ePP	17 55					61.3 N, 152.9 W, 107 km	
		eS	22 24					Southern Alaska	
	KJN	iP	05 16 45.1	1.2	22.4	6	KJN	eP	09 44 53
		ePP	18 25				SOD	eP	09 44 43
	SOD	iP	05 16 49.7				H:	09 33 58	
	KEV	eP	05 17 04					35.1 N, 140.9 E, 66 km	
		eS	23 18					Honshu, Japan	
		eLR	05 29.1			6	NUR	iP	12 04 25.0 U
	H:	05 09 03.6					e	05 28	0.6 8.8
		37.6 N, 24.6 W, 12 km					KJN	iP	12 04 23.1 U
		Azores Islands					ePP	05 34	0.6 6.2
5	NUR	iP	09 38 46.4				SOD	iP	12 04 38.4
	KJN	iP	09 38 36.8	0.8	9.2		H:	11 57 24	
5	NUR	iP	10 10 50.8	0.7	9.0			39.0 N, 71.2 E, 19 km	
	KJN	iP	10 10 43.3					Afghanistan-USSR border	
	H:	10 01 22				6	NUR	iP	14 06 31.0 D
		27.5 N, 92.4 E, 77 km					eS	12 20	0.8 15.8
		India-China border					eLQ	14 14.2	
5	NUR	eP	10 55 20				KJN	iP	14 06 19.8 D
5	NUR	eP	19 49 29				eS	11 57	0.9 17.9
	KJN	iP	19 49 19.0				SOD	iP	14 06 27.7
5	NUR	eP	20 46 28				KEV	eP	14 06 33
		e	47 56				H:	13 59 14.8	
	KJN	iP	20 46 20.0	0.7	6.9			43.9 N, 83.2 E, 33 km (R)	
								Sinkiang, China	

July							July						
					T	A					T	A	
6	NUR	iP	18 23	28.0	0.6	6.3	7	NUR	ePKP	23 41	22		
		i		31.0				H:	23 22	07.3			
6	NUR	eP	20 33	19					17.8 S,	173.6 W,	26 km		
		i		24.4	0.8	15.8			Tonga Islands				
	KJN	iP	20 33	03.7	0.7	8.9	8	KJN	iP	01 51	36.0		
		i		18.7				H:	01 37	55.2			
	SOD	iP	20 32	58.8					6.9 S,	130.2 E,	113 km		
		i		33 04.5					Banda Sea				
	KEV	eP	20 32	53			8	NUR	eP	02 11	05	1.0	
		i		58.2				KJN	iP	02 10	50.9 U	0.9	
	H:	20 21	43.5						i		56.0	8.9	
		25.8 N,	128.0 E,	23 km				SOD	eP	02 10	48		
		Ryukyu Islands											
6	NUR	iPKP	23 00	57.4 U	1.0	16.0	8	NUR	iP	03 58	33.0	0.5	
	KJN	ePKP	23 00	46	1.0	5.5		KJN	iP	03 58	47.8	0.9	
	H:	22 41	49						i		59 06.6	6.3	
		32.1 S,	179.9 W,	274 km					ePP	04 00	24		
		South of Kermadec Islands						SOD	eP	03 59	11		
									ePP	04 01	04		
6	NUR	eP	23 54	53				KEV	eP	03 59	15		
	KJN	eP	23 54	36					e		33		
	H:	23 43	33.6						Moscow:				
		29.5 N,	129.0 E,	31 km					H:	03 51	00		
		Ryukyu Islands								26.2 N,	54.8 E,	22 km	
										Persian Gulf			
7	NUR	eP	01 45	23			8	NUR	eP	07 30	15	0.6	
7	KJN	eP	02 29	34				KJN	eP	07 30	12	5.0	
7	NUR	iP	03 35	03.7					i		25.0		
7	NUR	iP	04 59	31.8	0.7	6.5		SOD	eP	07 30	22		
	SOD	eP	04 58	44					i		27.2		
	H:	04 49	06				8	NUR	eP	11 36	38		
		56.6 N,	152.1 W,	33 km (R)									
		Kodiak Island											
7	NUR	iP	16 13	40.7	0.7	9.0	9	NUR	eP	03 33	23		
7	NUR	eP	19 07	42				KJN	eP	03 34	02		
	KJN	eP	19 07	40				H:	03 28	24.4			
		i		48.5					37.9 N,	22.0 E,	43 km		
	SOD	eP	19 07	57					Southern Greece				
	H:	19 00	27					9	NUR	iPKP	08 11	26.0	
		36.8 N,	71.3 E,	33 km (R)					i		40.9	0.7	
		Afghanistan-USSR border							KJN	iPKP	08 11	15.6	
										i		18.0	
										i		30.8	
										i		56.7	
										ePP	15 17		
7	NUR	eP	22 20	12				SOD	ePKP	08 11	10		
		e		26				H:	07 51	47.8			
	KJN	eP	22 19	54					33.2 S,	179.2 W,	62 km		
	SOD	eP	22 19	52					South of Kermadec Islands				

July			July			
	T	A		T	A	
9	NUR ePKP	14 33 01		SOD ePKP	10 19 57	
	KJN ePKP	14 32 53		e	20 06	
	H:	14 14 41.6		KEV e	10 20 01	
		20.1 S, 178.4 W, 559 km		e	07	
		Fiji Islands		e	15	
				ePP	22 47	
9	NUR eP	17 09 14		eSKSP	33 38	
	KJN eP	17 09 33		H:	10 00 39.1	
	SOD eP	17 09 46			30.5 S, 177.8 W, 40 km	
	KEV eP	17 10 08			Kermadec Islands	
	Moscow:			10	NUR iP	16 24 17.0 U 1.7 399.4
	H:	17 01 44		i	24.5	
		27.5 N, 57.1 E		ePP	26 54	
		Iran		ePPP	28 46	
9	NUR eP	19 30 43	1.0	18.0	eS	33 46
	KJN iP	19 30 31.9 U	0.9	9.8	eScS	34 40
	SOD eP	19 30 26			e	36 44
	KEV eP	19 30 20			eSS	38 48
	H:	19 17 43.0			eSSS	42 51
		12.5 N, 141.8 E, 62 km			eLR	16 48.5
		South of Mariana Islands		KJN iP	16 24 01.6 U 1.0 166.8	
				i	12.0	
10	KJN ePKP	01 40 10		e	27 08	
	iSKP	42 46.1		eS	33 15	
	H:	01 22 02.9		eScS	34 17	
		17.4 S, 178.7 W, 532 km		SOD iP	16 23 58.2 U	
		Fiji Islands		i	24 08.9	
				eS	33 12	
10	NUR eSKP	02 11 27		KEV iP	16 23 52.5 U 1.5 200.8	
	KJN eSKP	02 11 17		i	24 03.3	
	SOD eSKP	02 11 09		iPcP	15.3	
	H:	01 50 11		ePP	26 36	
		24.8 S, 179.7 E, 550 km (R)		eScP	28 23	
		South of Fiji Islands		eS	33 04	
				eScS	49	
				e	35 06	
10	NUR iP	09 24 18.8		eSS	38 16	
	KJN iP	09 24 08.2	1.1	18.9	eSSS	40 42
				H:	16 12 41.5	
10	NUR iPcP	10 20 15.0 U 1.6 722.2			24.2 N, 125.2 E, 28 km (R)	
	i	31.2			Ryukyu Islands	
	ePKS	24 00		10	KJN iP	18 09 55.9 D
	eSKS	27 08		SOD eP	18 09 56	
	eSKSP	33 40				
	ePPS	36 08		10	NUR iP	19 09 52.5
	eSS	43 22		KJN iP	19 09 27.0 D 0.8 9.2	
	eSSS	48 00		SOD iP	19 09 23.5	
	KJN iPcP	10 20 04.0 U 1.0 16.4				
	i	23.8		10	NUR iP	22 15 53.2 D 1.2 25.7
	e	21 30		e	16 08	
	iPP	23 25.3			cont.	
		cont.				

July						July				
				T	A					
						T			A	
	KJN	iP	22 15 39.0	1.2	39.6	KJN	ePKP	23 05 08		
		i	56.1				ePKS	08 43		
	SOD	iP	22 15 34.4			SOD	ePKP	23 05 07		
	KEV	eP	22 15 29	0.7	9.0	KEV	ePKP	23 05 14		
	H: 22 04 24.4						ePP	07 03		
	24.8 N, 125.3 E, 58 km						ePKS	08 30		
	Ryukyu Islands						e	16 12		
11	NUR	iP	01 22 06.1	1.0	18.0		eSKSP	17 20		
	KJN	iP	01 21 42.0	0.9	13.4		eSS	24 18		
	SOD	eP	01 21 20				e	25 12		
	KEV	eP	01 21 01			H: 22 46 05.7				
	H: 01 11 17.8					19.2 S, 173.6 W, 120 km (R)				
	53.6 N, 167.6 W, 23 km					Tonga Islands				
	Fox Islands					12	NUR	eP	00 09 22	
11	KJN	eP	03 52 19			KJN	iP	00 09 42.1 U	1.0	10.9
							i	46.5		
							e	10 25		
11	NUR	eP	21 40 03			SOD	eP	00 10 10		
		i	18.7			H: 00 04 12				
		eS	41 45			38.9 N, 41.3 E, 64 km				
		e	42 29			Turkey				
		e	43			12	NUR	iP	03 01 47.0 D	1.2 28.5
	KJN	eP	21 39 43				eS	06 08		
		e	52			KJN	eP	03 02 22	0.7	4.8
		iS	41 13.4				e	31		
		i	57.7			SOD	iP	03 02 49.4 D		
		i	42 06.1			KEV	iP	03 03 11.0		
	SOD	eP	21 39 24				eS	08 34		
		i	49.0				e	10 40		
		eS	40 28			H: 02 56 23.5				
		e	41 05			35.5 N, 22.4 E, 15 km				
	KEV	eP	21 39 26			Mediterranean Sea				
		e	31			12	NUR	eP	03 19 44	
		eS	40 30			12	KJN	eP	04 26 22	
		i	38.3			H: 04 13 25				
		e	41 18			3.6 N, 127.0 E, 67 km				
		e	33			Talaud Islands				
	H: 21 37 48					12	NUR	iPKP	07 12 08.3 D	0.7 14.2
	67.3 N, 10.0 E, 35 km						KJN	e	07 12 13	
	Norwegian Sea					H: 06 52 31				
11	NUR	iP	22 20 47.4	1.0	12.0	30.5 S, 177.9 W, 33 km (R)				
						Kermadec Islands				
11	NUR	ePKP	23 05 16			12	NUR	eP	14 11 32	
		ePP	07 59				KJN	eP	14 11 32	
		ePKS	08 54			H: 14 04 28				
		e	13 21			36.7 N, 71.4 E, 143 km				
		e	16 08			Afghanistan-USSR border				
		eSKSP	17 50							
		ePPS	20 10							
		e	21 28							
		eSS	26 06							

cont.



July						July							
			T	A			T	A					
14	NUR	iP	10 08	42.6 D	0.7	18.1			15	NUR	eP	08 11 25	
	KJN	iP	10 08	18.9 D	0.7	8.2				i		36.8	
	SOD	eP	10 08	03						KJN	eP	08 11 32	
	KEV	iP	10 07	50.9 D						i		43.7	
	H: 09 58 00.0										SOD	eP	08 11 27
	45.7 N, 151.8 E, 33 km (R)										i		38.3
	Kurile Islands										KEV	eP	08 11 27
										e		38	
14	NUR	iP	12 28	45.2 U	1.1	35.7				H: 08 00 00.7			
	KJN	iP	12 28	22.0 U	1.1	35.1				16.9 N, 61.5 W, 89 km			
	SOD	iP	12 27	58.3 U						Leeward Islands			
	KEV	eP	12 27	41					15	SOD	eSKP	08 58 05	
	H: 12 18 17.0									H: 08 37 35.4			
	56.2 N, 149.8 W, 33 km (R)									20.2 S, 178.6 W, 612 km			
	Gulf of Alaska									Fiji Islands			
14	NUR	iP	15 57	26.0	0.7	7.7			15	NUR	iP	10 45 53.6	
	BCIS:									KJN	iP	10 45 44.8	
	H: 15 54 48									SOD	iP	10 45 43.7	
	50.0 N, 18.3 E									KEV	eP	10 45 41	
	Poland-Czechoslovakia border												
14	NUR	iP	18 17	33.0 U	0.9	63.8			15	NUR	eP	18 11 46	
	i			40.0						KJN	eP	18 11 48	
	iPcP		18 09	1						SOD	eP	18 11 47	
	KJN	iP	18 17	07.2 U	0.9	26.8				H: 17 58 55			
	i			15.3						4.5 N, 126.0 E, 40 km			
	SOD	iP	18 16	47.4 U						Talaud Islands			
	i			55.2					15	NUR	eP	20 39 21	
	KEV	iP	18 16	31.0 U	1.0	22.0				KJN	iP	20 39 11.3	
	H: 18 07 04.1									SOD	iP	20 39 10.5	
	53.1 N, 171.1 E, 29 km									KEV	eP	20 39 08	
	Near Islands									H: 20 26 17			
14	NUR	iP	18 19	15.0	0.9	11.8				5.1 N, 127.0 E, 56 km			
	i			21.5						Mindanao, P.I.			
	KJN	iP	18 18	56.0 D	1.1	18.9			15	NUR	eP	21 36 57	
	SOD	iP	18 18	35.8						KJN	iP	21 36 32.8 D	
	e			43						SOD	eP	21 36 10	
	KEV	eP	18 18	14						KEV	eP	21 35 54	
	H: 18 08 46									H: 21 26 06			
	53.1 N, 170.9 E, 29 km (R)									52.7 N, 167.6 W, 33 km (R)			
	Near Islands									Fox Islands			
14	KJN	ePKP	20 18	42					15	NUR	eP	23 55 02	
	SOD	ePKP	20 18	48						KJN	eP	23 55 36	
	H: 20 00 02.5									SOD	eP	23 56 05	
	52.9 S, 27.5 E, 33 km (R)									KEV	eP	23 56 26	
	South of Africa									H: 23 50 13.1			
15	SOD	eP	02 34	48						39.0 N, 21.8 E, 44 km			
	H: 02 26 15									Greece			
	35.4 N, 36.4 W, 33 km (R)												
	North Atlantic Ridge												

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<p>16 KJN iP 00 47 23.6 0.7 15.1            epP 48 04            SOD eP 00 47 24            epP 48 09            H: 00 34 37            0.3 N, 121.5 E, 181 km            Northern Celebes</p>	<p>17 KJN iP 10 40 57.2            SOD eP 10 40 57            H: 10 27 20.2            7.1 S, 129.4 E, 141 km            Banda Sea</p>
<p>16 NUR iPKP 07 38 45.0 D 0.9 28.6            KJN iPKP 07 38 38.0 D 0.8 12.3            SOD ePKP 07 38 34            H: 07 19 55.8            10.9 S, 165.9 E, 68 km            Santa Cruz Islands</p>	<p>17 NUR ePKP 16 23 26            e 33            KJN ePKP 16 23 26 0.8 3.8            SOD ePKP 16 23 21            H: 16 04 37.1            19.6 S, 175.7 W, 220 km (R)            Tonga Islands</p>
<p>16 NUR eP 19 50 26            KJN eP 19 50 22            ePP 51 44            SOD eP 19 50 37            H: 19 43 27.4            40.7 N, 74.2 E, 33 km (R)            Kirgiz-Sinkiang border</p>	<p>17 NUR eP 23 01 24 0.6 5.0            eS 04 15            KJN eP 23 01 02            eS 03 34            SOD eP 23 00 29            H: 22 57 37            71.2 N, 5.9 W, 33 km (R)            Jan Mayen Island</p>
<p>16 NUR eP 23 31 31 0.9 13.4</p>	<p>17 NUR eP 23 23 35            KJN eP 23 23 09            SOD eP 23 23 15</p>
<p>17 NUR eP 01 13 27            KJN iP 01 13 06.0            SOD eP 01 12 40            KEV eP 01 12 23            H: 01 03 03.6            56.5 N, 166.9 W, 35 km            Central Alaska</p>	<p>18 NUR iP 02 04 51.4 1.1 14.3            i 59.0            ePcP 05 42            ePPP 08 24            eS 12 48            KJN eP 02 05 02            i 12.0            SOD eP 02 05 26            e 32            KEV iP 02 05 37.7            i 45.9            H: 01 55 02.1            8.4 N, 58.5 E, 33 km (R)            Carlsberg Ridge</p>
<p>17 NUR eP 01 58 22            KJN iP 01 58 38.6            SOD eP 01 58 58</p>	
<p>17 NUR iPKP 02 43 19.2 D 0.9 30.2            i 22.5            KJN iPKP 02 43 12.2 D 0.8 15.4            i 14.7            ePP 46 34            i 46.0            SOD ePKP 02 43 08            KEV iPKP 02 43 05.0 1.1 19.0            H: 02 24 06.9            21.6 S, 169.9 E, 63 km            Loyalty Islands</p>	<p>18 NUR iP 04 50 21.6 U 0.8 18.7            epP 38            KJN iP 04 50 01.0 U 0.8 24.6            ipP 18.7            SOD iP 04 49 49.6 U            ipP 50 07.4            KEV iP 04 49 39.3 U 0.8 8.6            H: 04 39 24            38.4 N, 141.5 E, 74 km            Honshu, Japan</p>
<p>17 NUR eP 08 56 08 0.7 6.5            KJN iP 08 55 43.1 0.9 10.7            SOD iP 08 55 18.0 U            H: 08 46 25.8            61.9 N, 152.0 W, 103 km (R)            Southern Alaska</p>	

July						July					
				T	A					T	A
18	NUR	eP	10 08 25	1.0	16.0	19	NUR	iP	03 36 00.6	0.7	11.6
		eS	15 56				KJN	iP	03 36 00.7 U	0.7	12.3
	KJN	iP	10 08 39.1	1.1	13.5		SOD	iP	03 36 15.5		
	SOD	eP	10 09 00				KEV	eP	03 36 25	0.8	11.5
	KEV	iP	10 09 13.9	1.0	26.0		H: 03 28 53				
	H: 09 59 10.0						36.2 N, 71.4 E, 138 km				
	13.1 N, 57.6 E, 33 km (R)						Afghanistan-USSR border				
	Arabian Sea										
18	NUR	iP	19 47 32.0	1.0	16.0	19	NUR	iP	06 33 18.0	0.8	8.6
		e	48 24				KJN	iP	06 33 01.0	0.6	3.4
	KJN	eP	19 47 45				SOD	iP	06 32 53.0		
	SOD	eP	19 47 56				KEV	eP	06 32 46		
	KEV	eP	19 48 16				H: 06 22 21				
	Moscow:						27.9 N, 139.1 E, 554 km				
	H: 19 37 37						Bonin Islands				
	7.6 N, 58.5 E										
	Arabian Sea					19	NUR	eP	10 14 47		
							H: 10 08 37				
							55.7 N, 36.3 W, 33 km (R)				
							North Atlantic Ocean				
19	NUR	eP	00 26 29	1.2	17.1	19	KJN	iP	12 05 44.5	0.7	4.8
	KJN	eP	00 26 30	1.1	10.8		SOD	iP	12 05 41.3		
	H: 00 20 11						H: 11 51 48.1				
	55.5 N, 35.4 W, 33 km (R)						4.8 S, 143.1 E, 104 km				
	North Atlantic Ocean						New Guinea				
19	NUR	iP	01 50 56.3 D	1.2	51.3	19	KJN	eP	14 33 21		
		i	51 10.9				H: 14 22 17				
		i	17.0				30.0 N, 131.8 E, 38 km				
		ePPP	54 40				Ryukyu Islands				
		eS	59 04			19	NUR	iP	19 31 23.4 D	1.3	76.8
		eSS	02 03 00					i	35.7		
		eLR	02 08.9					i	32 05.3		
	KJN	iP	01 50 29.6 D	1.2	48.2			eSS	44 26		
	SOD	iP	01 50 09.8					eP'P'	20 00 02		
		i	51 01.0				KJN	iP	19 30 59.0	0.5	20.6
		ePP	52 15					i	31 11.7		
	KEV	eP	01 49 54					iPcP	37.0		
		e	50 22					i	49.8		
		e	51 32					eS	39 33		
		ePPP	52 52					eP'P'	20 00 12		
		eS	57 05				SOD	iP	19 30 38.7		
		eSS	02 00 26					iPcP	31 23.3		
		eLR	02 05.0				KEV	iP	19 30 22.0 D	1.3	40.9
	H: 01 40 53.9							iPcP	31 14.0		
	56.2 N, 164.9 E, 18 km							i	27.8		
	Komandorsky Islands							ePP	32 30		
								eS	38 22		
								eSS	42 30		
19	NUR	eP	02 11 25				H: 19 20 33.4				
	KJN	eP	02 11 30	1.0	8.7		51.7 N, 173.3 W, 47 km (R)				
	H: 02 05 06						Andreanof Islands				
	55.4 N, 34.8 W, 33 km (R)										
	North Atlantic Ocean										





July						July			
				T	A				
KJN	ePKP	18 48 15				22	NUR	iPKP	08 00 50.0
	i	20.3						ePKS	04 13
	epPKP	50 41					KJN	iPKP	08 00 43.5
	iSKP	51.0						H:	07 41 42.7
	ePKS	51 44							18.3 S, 167.2 E, 33 km (R)
SOD	ePKP	18 48 17							New Hebrides Islands
	iSKP	50 40.6				22	NUR	iPKP	08 44 38.8 D
	ePKS	51 38						epPKP	45 28
KEV	ePKP	18 48 10						ePP	46 42
	i	20.0						ePKS	47 59
	ePP	50 08					KJN	iPKP	08 44 32.6
	epPKP	33						epPKP	45 22
	ePPP	53 10						ePKS	47 47
	eSP	59 08					SOD	iPKP	08 44 28.4
	eSPP	19 00 50					KEV	iPKP	08 44 25.8 U
	e	01 46						epPKP	45 15
	H:	18 30 14.9						H:	08 25 54.7
		17.8 S, 178.6 W, 591 km (R)							16.0 S, 168.0 E, 187 km
		Fiji Islands							New Hebrides Islands
21	NUR	eP	19 38 18			22	NUR	iP	10 28 11.8 U
21	NUR	eP	20 07 16					iPcP	41.6
	SOD	eP	20 07 09					i	53.7
22	NUR	eP	03 01 29					ePP	30 42
	KJN	eP	03 01 53	0.9	6.3			ePPP	32 20
	SOD	eP	03 02 14					eS	36 54
	KEV	eP	03 02 30					eSS	41 42
	H:	02 51 25						eP'P'	56 38
		0.6 N, 29.9 E, 33 km (R)						eLR	10 49.1
		Republic of the Congo					KJN	iP	10 27 48.2 D
22	NUR	iP	03 47 28.3 U	0.7	23.8			iPcP	28 26.0
	ePP	49 01						i	54.0
	eS	53 30						ePP	30 06
	e	55 40						e	20
	eSS	56 18						e	32 37
KJN	iP	03 47 17.8	0.7	24.0				eP'P'	56 49
	iPP	48 48.6					SOD	iP	10 27 26.6
	e	50 42						iPcP	28 11.7
	eS	53 10						i	25.8
SOD	iP	03 47 24.5 D						eP'P'	57 09
	ePP	48 53					KEV	iP	10 27 11.8 U
	eS	53 22						iPcP	28 02.5
KEV	iP	03 47 27.9	0.8	10.1				i	15.8
	i	30.8						ePP	29 20
	ePP	49 07						ePPP	30 46
	H:	03 39 59.7						eScP	32 03
		42.8 N, 84.5 E, 33 km (R)						eS	35 10
		Sinkiang, China						eScS	37 15
								eSS	39 23
								H:	10 17 22.5
									51.7 N, 173.5 W, 56 km (R)
									Andreanof Islands

July				July			
			T	A		T	A
22	NUR	eP	11 12 47			23	KJN eP 14 50 15
							H: 14 39 48.3
23	NUR	iP	03 48 47.0 D	0.8	14.4		51.6 N, 173.4 W, 41 km
	KJN	iP	03 48 22.7 D	0.6	11.0		Andreanof Islands
	SOD	iP	03 48 02.3				
		ePcP	46				
	KEV	iP	03 47 45.6 D	0.8	15.8	23	NUR eP 15 37 07
			H: 03 37 55.8				KJN eP 15 36 43
			51.7 N, 173.6 W, 41 km				H: 15 26 16.1
			Andreanof Islands				51.7 N, 173.6 W, 51 km
							Andreanof Islands
23	KJN	eP	04 20 03			23	NUR iP 17 51 55.7 D
			H: 04 09 36				0.9 20.2
			51.9 N, 173.4 W, 33 km (R)				KJN eP 17 51 56
			Andreanof Islands				0.9 9.8
							SOD eP 17 52 12
							H: 17 44 58.5
23	NUR	iP	08 37 00.6				36.5 N, 70.8 E, 210 km
	KJN	iP	08 36 37.0				Hindu Kush
	SOD	eP	08 36 24				
	KEV	iP	08 36 07.7				
			H: 08 26 10.1			23	NUR eP 19 45 31
			51.9 N, 173.5 W, 33 km				e 40
			Andreanof Islands				KJN eP 19 45 11
							H: 19 34 57
23	NUR	iP	14 42 40.6 D	0.8	33.1		54.5 N, 134.9 W, 33 km (R)
		iPcP	43 09.3				Queen Charlotte Islands
		ePP	45 06				
		eS	51 35				
		eLR	15 03.6			23	NUR iP 20 22 51.0 D
	KJN	iP	14 42 16.8	0.9	33.9		0.7 11.6
		iPcP	53.8				iPcP 23 19.3
		eScP	46 55				KJN iP 20 22 27.5 D
		eP'P'	15 11 15				0.6 13.7
	SOD	iP	14 41 55.3 D				iPcP 23 04.0
		iPcP	42 40.8				SOD eP 20 22 06
		eScP	46 31				iPcP 50.6
	KEV	iP	14 41 38.8 D	0.8	30.2		KEV iP 20 21 50.3
		iPcP	42 31.3				0.6 7.5
		ePP	43 50				ePcP 22 41
		ePPP	45 16				H: 20 12 00.1
		eScP	46 41				51.8 N, 173.5 W, 36 km
		eS	49 25				Andreanof Islands
		e	54				
		eSS	53 43			24	NUR eP 01 32 30
		eLR	14 59.8				H: 01 27 41
			H: 14 31 51.2				39.2 N, 21.9 E, 33 km (R)
			51.7 N, 173.5 W, 55 km				Greece
			Andreanof Islands				
						24	NUR eP 04 33 04
							KJN iP 04 32 55.1 U

July						July					
				T	A					T	A
24	NUR	iP	06 49 00.9	D	0.9	16.8	25	KJN	eP	20 06 39	
	KJN	iP	06 48 50.8	U	0.8	20.0		SOD	eP	20 06 44	
24	NUR	iP	11 08 57.6	D	0.7	25.8	26	NUR	iP	03 58 30.0	1.3 44.3
	KJN	iP	11 08 49.6		0.6	12.3		i		37.4	
	SOD	iP	11 08 44.0					KJN	eP	03 58 03	1.3 15.2
	KEV	eP	11 08 38					SOD	eP	03 57 44	
24	NUR	iPKP	17 37 27.8					KEV	eP	03 57 29	
		e	40 15					H:	03 48 28.8		
	KJN	iPKP	17 37 21.0	0.9	22.3			56.2 N; 164.6 E, 33 km (R)			
		eSKP	40 40					Komandorsky Islands			
		ePKS	50								
	SOD	ePKP	17 37 09				26	KJN	ePKP	06 02 35	
		e	40 28					H:	05 44 31		
	H: 17 18 17.6							18.0 S, 178.5 W, 596 km			
	20.4 S, 175.8 W, 112 km							Fiji Islands			
	Tonga Islands										
24	NUR	iP	21 50 26.6				26	NUR	iP	12 57 28.3	U
		i	34.2					KJN	iP	12 57 06.3	D 0.6 17.1
	KJN	iP	21 49 50.0	1.0	12.0			KEV	iP	12 56 43.0	
	SOD	eP	21 49 08					H:	12 47 02		
		i	16.2					42.4 N, 141.0 E, 142 km			
	H: 21 45 48							Hokkaido, Japan			
	80.7 N, 7.6 E, 49 km										
	Svalbard						26	KJN	eP	13 00 46	
25	NUR	iP	09 29 29.0	1.0	32.0			SOD	eP	13 00 25	
		i	40.7					H:	12 50 19.3		
	KJN	iP	09 29 04.9	U	1.0	30.5		52.0 N, 173.5 W, 36 km			
	SOD	iP	09 28 43.3					Andreanof Islands			
	KEV	iP	09 28 26.7	D	1.0	24.0	26	NUR	iP	15 22 39.0	
	H: 09 18 36.7							ipP		23 02 7	
	52.1 N, 170.0 W, 31 km							KJN	iP	15 22 38.8	0.5 20.6
	Fox Islands							epP		23 02	
25	NUR	iPKP	11 10 55.6	0.8	11.5			SOD	iP	15 22 53.4	
	KJN	iPKP	11 10 45.0	U	0.6	4.8		KEV	eP	15 23 02	
	H: 10 51 52							H:	15 15 31.7		
	32.4 S, 179.7 E, 330 km							36.8 N, 71.6 E, 114 km			
	South of Kermadec Islands							Afghanistan-USSR border			
25	NUR	iPKP	13 29 00.5				26	NUR	iPKP	22 59 03.7	U 1.0 61.5
	KJN	ePKP	13 28 48					i		21.5	
	SOD	ePKP	13 28 42					ePKS		23 02 44	
	H: 13 09 09							KJN	iPKP	22 58 54.0	1.1 21.6
	37.7 S, 177.8 E, 33 km (R)							i		59.0	
	North Island, N.Z.							e		23 02 01	
								ePKS		35	
								cont.			



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SOD ePKP 22 58 49  
KEV ePKP 22 58 48  
H: 22 39 47.8  
27.5 S, 177.9 W, 143 km  
Kermadec Islands

27 KJN iPKP 05 07 38.6 1.1 17.6  
ePKKP 18 15  
SOD iPKP 05 07 37.0  
e 49  
ePKKP 18 16  
KEV ePP 05 08 32  
eSKS 14 26  
eS 15 38  
ePS 18 16  
ePPS 19 36  
H: 04 48 59.4  
24.2 S, 70.3 W, 35 km (R)  
Northern Chile

27 NUR iP 07 26 51.2 U  
KJN iP 07 26 34.4 0.7 17.1  
i 35.3  
SOD iP 07 26 26.8  
KEV iP 07 26 19.4 D 0.6 19.2  
H: 07 15 42  
27.4 N, 139.6 E, 460 km  
Bonin Islands

27 NUR eP 14 55 27  
ePP 56 56  
eS 15 00 33  
e 42  
KJN iP 14 55 45.0 U  
i 57 28.8  
e 15 01 07  
eS 12  
SOD iP 14 56 11.1  
KEV eP 14 56 33  
e 57 19  
iPP 58 05.4  
H: 14 49 02.0  
32.6 N, 48.8 E, 36 km  
Western Iran

27 NUR eP 15 36 50  
KJN iP 15 37 09.0  
SOD eP 15 37 34  
H: 15 30 26.4  
32.6 N, 48.8 E, 45 km  
Western Iran

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27 KJN eP 17 12 41  
SOD eP 17 13 07  
H: 17 06 02  
32.6 N, 49.3 E, 74 km  
Western Iran

27 NUR eP 17 15 39 0.8 11.5  
KJN eP 17 14 54

27 KJN ePKP 18 02 05  
H: 17 42 24  
39.6 S, 176.1 E, 36 km  
North Island, N.Z.

27 NUR eP 18 12 58  
KJN iP 18 13 15.0  
SOD eP 18 13 41  
ePP 15 26  
H: 18 06 34  
32.8 N, 48.7 E, 36 km  
Western Iran

27 NUR eP 19 46 33  
KJN iP 19 46 51.1 0.6 5.5  
SOD eP 19 47 17  
H: 19 40 09.6  
32.6 N, 49.0 E, 54 km  
Western Iran

27 NUR eP 20 37 19  
KJN iP 20 36 45.0 0.7 41.1  
e 39 28  
SOD eP 20 36 01  
KEV eP 20 35 39  
eS 36 51

27 KJN eP 21 16 51  
H: 21 10 09  
32.6 N, 49.0 E, 60 km  
Western Iran

28 NUR ePKP 01 37 37  
KJN ePKP 01 37 30  
H: 01 18 27.4  
17.2 S, 167.7 E, 17 km  
New Hebrides Islands

28 NUR ePKP 07 31 31  
H: 07 13 18  
21.0 S, 179.1 W, 604 km  
Fiji Islands

July							July						
					T	A					T	A	
28	KJN	iP	11 00	52.3 U	1.1	20.3	29	NUR	iP	19 58	48.6	0.7	7.7
		i		56.8				KJN	iP	19 58	25.8 U	0.7	3.4
	SOD	iP	11 00	52.0				SOD	eP	19 58	08		
	H: 10 47 48.8							H: 19 48 10					
	0.3 S, 124.2 E, 95 km							46.5 N, 152.6 E, 33 km (R)					
	Molucca Sea							Kurile Islands					
28	NUR	iPKP	12 27	23.0 U	1.0	340.0	29	NUR	eP	21 10	50		
		i		26.0									
		i		57.0			29	NUR	eP	22 19	10	0.9	8.4
	KJN	ePKP	12 27	12	0.9	13.4		KJN	iP	22 18	51.0 U	0.8	21.5
		i		17.0					e	19 02			
	SOD	ePKP	12 27	06				SOD	iP	22 18	40.0 D		
	H: 12 07 52.5							H: 22 07 59.6					
	29.0 S, 177.5 W, 59 km							36.6 N, 141.3 E, 42 km					
	Kermadec Islands							Honshu, Japan					
28	NUR	eP	17 03	06	1.2	22.8	30	NUR	eP	05 23	33		
29	NUR	eP	04 46	55	0.9	8.4		KJN	iP	05 24	17.3 D	0.8	9.2
	KJN	eP	04 46	54					i		21.7		
	SOD	iP	04 46	39.0				SOD	eP	05 24	42		
	H: 04 36 24.8							H: 05 19 25					
	36.6 N, 74.1 W, 1 km (R)							43.0 N, 17.8 E, 31 km					
	Off east coast of USA							Yugoslavia					
	Chemical explosion						30	KJN	iP	17 36	27.5		
								H: 17 23 35.7					
								6.3 N, 73.8 W, 65 km					
								Northern Colombia					
29	NUR	eP	06 36	58			30	NUR	eP	17 52	06	1.0	18.0
	KJN	eP	06 36	43					i		10.4		
	H: 06 25 35.2								i		20.0		
	29.2 N, 129.4 E, 21 km								e		54 15		
	Ryukyu Islands							KJN	iP	17 51	51.2 U	1.1	40.5
29	NUR	iP	07 18	46.8	0.7	10.3			i	52	01.0		
	KJN	iP	07 18	25.0					i		10.3		
	SOD	eP	07 18	11					i		46.8		
	H: 07 08 14.6							SOD	iP	17 51	53.5		
	44.0 N, 145.3 E, 96 km								e	52	21		
	Hokkaido, Japan							KEV	iP	17 51	51.2	0.7	5.2
									i		55.3		
								H: 17 39 18.8					
								9.1 N, 126.6 E, 36 km					
								Mindanao, P.I.					
29	NUR	eP	08 27	54	0.7	10.3	30	KJN	iP	20 37	27.0	1.0	18.5
	KJN	iP	08 28	11.0	0.7	15.8		SOD	iP	20 36	55.8		
	SOD	eP	08 28	34				KEV	eP	20 36	31		
	KEV	eP	08 28	50	0.9	6.7		H: 20 32 00.7					
	H: 08 20 46							84.5 N, 104.2 E, 29 km (R)					
	28.5 N, 51.6 E, 33 km (R)							North of Severnaya Zemlya					
	Southern Iran												
29	NUR	eP	09 12	03	0.9	18.5							

July

			T	A	
31	NUR	eP	03 33 08		
		eS	37 04		
	KJN	iP	03 33 26.1 U	0.5	18.4
		eS	37 43		
	SOD	eP	03 33 53		
		i	34 11.0		
		e	38 57		
	KEV	eP	03 34 36		
		e	39 45		
H: 03 28 14					
42.8 N, 46.2 E, 33 km (R)					
Eastern Caucasus					

31	NUR	eP	04 27 27		
	KJN	eP	04 28 17		
	SOD	iP	04 28 32.6		
		e	39		
	KEV	eP	04 28 54		

31	NUR	iP	15 27 23.0	0.9	11.8
		e	26		
	KJN	iP	15 27 46.7 D	1.0	19.6
		i	50.8		
	SOD	iP	15 28 08.0 U		
		i	12.0		
	KEV	iP	15 28 22.8	1.0	14.0
		e	26		
H: 15 17 18.8					
0.7 N, 30.1 E, 33 km (R)					
Uganda					

July

			T	A	
31	NUR	eP	18 53 50		
	KJN	iP	18 53 24.8		
	SOD	eP	18 52 49		
	KEV	eP	18 52 31		
H: 18 50 24					
71.6 N, 0.7 E, 33 km (R)					
Norwegian Sea					
31	NUR	eP	21 45 26		
31	NUR	eP	23 36 54		
	SOD	eP	23 36 08		
H: 23 26 24					
52.9 N, 170.8 E, 33 km (R)					
Near Islands					

November 17, 1966

Urmas Luosto  
Aili Huovila



August				T	A	August				T	A		
1	NUR	eP	02 33 47						e		34		
	KJN	iP	02 33 32.5 D	0.8	6.9				ePPP	20	02		
	SOD	iP	02 33 27.9						i		52.0		
	KEV	eP	02 33 22	0.7	6.5				eS	24	05		
									e		16		
1	NUR	iPKP	03 41 46.0 D	1.0	22.0				eSS	27	04		
	KJN	iPKP	03 41 40.4	1.1	8.1				eLR	19	29.1		
	H:	03 23 03.1				KJN	iP	19 17 51.8 U		1.0	66.5		
		10.2 S, 161.1 E, 70 km					i				55.4		
		Solomon Islands					iPP	19 33.0			50.0		
							i				20 10		
1	NUR	eP	03 58 54				ePPP	20 10					
	KJN	eP	03 58 29			SOD	iP	19 18 09.8 U					
		e	04 00 52				iPP	19 51.7					
	SOD	eP	03 57 54				i				56.8		
	KEV	eP	03 57 40				ePPP	20 28					
1	NUR	iP	06 36 42.3 U	1.0	46.0		KEV	iP	19 18 20.0	1.2	34.2		
		e	51				i				25.7		
	KJN	iP	06 36 17.6	1.0	17.4		ePP	20 08					
	SOD	iP	06 35 57.5				eS	25 08					
		iPcP	36 45.0				eSS	28 26					
	KEV	eP	06 35 43				e				48		
	H:	06 25 57.6					eLR	19 31.3					
		51.5 N, 177.6 E, 43 km					H:	19 09 55.1					
		Rat Islands						29.9 N, 68.8 E, 33 km (R)					
								West Pakistan					
1	KJN	iP	09 19 41.5	0.7	3.4	1	NUR	eP	19 28 30				
	SOD	eP	09 19 47				KJN	eP	19 28 35				
1	NUR	eP	09 35 51				SOD	eP	19 28 52				
1	NUR	iP	12 02 12.1 U	0.6	12.5	1	NUR	eP	19 40 37				
	SOD	iP	12 01 50.2			1	NUR	eP	19 50 21				
	KEV	iP	12 01 42.3 U	0.7	49.0		KJN	iP	19 50 14.6	1.0	7.6		
	H:	11 50 15.5				1	NUR	ePKP	20 04 39				
		21.7 N, 142.9 E, 313 km					KJN	iPKP	20 04 31.8 D	0.6	7.5		
		Mariana Islands					KEV	ePKP	20 04 22				
1	NUR	eP	16 02 06				H:	19 45 17					
	H:	15 51 16						19.7 S, 174.3 W, 33 km (R)					
		51.1 N, 179.0 W, 33 km (R)						Tonga Islands					
		Andreanof Islands				1	NUR	iP	20 38 48.2 U	1.0	72.0		
1	NUR	eP	17 26 41				ePP	40 25					
	KJN	eP	17 27 10				eS	45 08					
	SOD	eP	17 27 33				eSS	48 16					
	H:	17 16 41					e	49 30					
		0.8 N, 30.0 E, 36 km				KJN	iP	20 38 53.0 U	1.2	56.8			
		Republic of the Congo					i				57.0		
1	NUR	iP	19 17 47.3 U	1.1	97.6		i				39 24.0		
		i	52.7				iPP	40 34.4					
		i	18 33.1			SOD	iP	20 39 09.6 U					
		ePP	19 27				i				12.2		
			cont.				iPP	40 53.3					
								cont.					











August

August

7	NUR	iP	02 24	04.8 D		
		e	25 22			
		ePP	26 26			
		ePPP	28 18			
		ePcS	36			
		e	29 50			
		eS	33 05			
		eScS	34 12			
		e	36 22			
		e	58			
		eSS	37 57			
		e	39 14			
		eSSS	40 53			
		iP'P'	52 16.0			
		i	24.0			
		eLR	02 45.0			
KJN	iP	02 23	40.8 D			
	e	30 57				
	eS	32 19				
	ePS	35				
	eScS	33 44				
	eP'P'	52 20				
	i	24.5				
	i	34.0				
SOD	iP	02 23	19.8 D			
	ePP	25 42				
	eS	31 43				
	e	52				
	eP'P'	52 33				
KEV	iP	02 23	03.0 D			
	i	04.0				
	ePP	25 20				
	e	27 07				
	e	31 06				
	iS	09.2				
	eSS	35 09				
	e	37 34				
	eP'P'	52 35				
	eLR	02 41.0				
H: 02 13 05.1						
50.6 N, 171.3 W, 39 km (R)						
Aleutian Islands						

7	NUR	eP	10 36	04	0.6	26.3
		e	14			
KJN	iP	10 35	53.0 D		0.8	11.5
	i	36 03.6				
	ePP	37 21				
cont.						

SOD	eP	10 36	01			
H: 10 28 29.6						
42.3 N, 85.0 E, 37 km						
Sinkiang, China						
7	NUR	ePKP	14 00	30		
		iSKP	03 20.0			
KJN	ePKP	14 00	28		0.8	4.6
		iSKP	03 09.7			
SOD	ePKP	14 00	24			
		iSKP	03 01.2			
H: 13 42 07.8						
24.0 S, 179.9 W, 537 km (R)						
South of Fiji Islands						
7	NUR	iP	14 21	59.8	1.2	54.2
		e	22 03			
		eS	30 10			
KJN	iP	14 21	35.4 U		1.1	24.3
		ePcP	22 32			
SOD	iP	14 21	12.1			
KEV	iP	14 20	53.0 U		1.0	28.0
H: 14 11 51.2						
59.6 N, 144.4 W, 4 km						
Gulf of Alaska						
7	NUR	iP	14 35	57.0	1.0	32.0
KJN	eP	14 36	31			
		e	38 24			
SOD	eP	14 37	01			
H: 14 30 47						
36.4 N, 22.2 E, 54 km						
Southern Greece						
7	NUR	iP	17 48	48.0 U	1.1	19.0
		i	56.6			
		e	50 32			
		ePP	51 56			
		ePPP	53 40			
		eS	59 04			
		e	18 04	23		
		eSS	38			
		eSSS	07 40			
		eLQ	18 09.7			
cont.						

August

August

				T	A					T	A
	eLR	18	14.3			8	NUR	iPKP	05 31 55.2 D	0.8	30.2
KJN	iP	17 48	36.3	1.2	31.0		KJN	iPKP	05 31 44.3	0.9	29.5
	i		44.6				H: 05 12 10.6				
	i		52.3				33.8 S, 179.4 W, 33 km (R)				
	e	51	17				South of Kermadec Islands				
	ePP		37								
	eS	58	54			8	NUR	ePKP	07 43 12		
SOD	iP	17 48	21.3				KJN	ePKP	07 43 05		
	ePP	51	14				H: 07 24 13.8				
KEV	iP	17 48	10.0	1.0	18.0		10.5 S, 164.3 E, 16 km				
	i		27.0				Santa Cruz Islands				
	e	49	42			8	NUR	eP	08 15 51		
	ePP	50	55				e		18 48		
	ePPP	52	38				ePPP		21 26		
	e	53	18				eSKS		26 23		
	e	54	24				ePS		28 04		
	eS	57	47				e		32 22		
	ePS	58	22				eSS		58		
	e	59	22				eLR	08 45.7			
	eSS	18 02	36				KJN	eP	08 15 44		
	eLQ	18 08.0					SOD	eP	08 15 31		
	eLR	18 10.8					ePP		18 56		
	H: 17 36 26.7						KEV	eP	08 15 21	1.5	51.4
	31.8 N, 114.5 W, 33 km (R)						i		27.2		
	Gulf of California						eSKS		25 46		
7	NUR	iP	20 29 20.7 U	0.8	51.8		eS		26 01		
	KJN	iP	20 28 58.3 U	0.6	26.0		eSP		44		
		iPcP	29 38.2				eSS		31 28		
	SOD	iP	20 28 45.8 U				H: 08 02 45.8				
		iPcP	29 30.1				19.3 N, 108.1 W, 33 km (R)				
	KEV	iP	20 28 34.3 U	0.8	21.6		Revilla Gigedo Islands				
		e	29 16								
	H: 20 18 41.5					8	NUR	ePKP	10 16 01		
	42.3 N, 143.0 E, 66 km						i		14.5		
	Hokkaido, Japan						KJN	iPKP	10 16 06.3	0.8	7.7
							SOD	iPKP	10 16 05.8		
8	NUR	iP	00 48 24.4				H: 09 57 29.7				
	KJN	iP	00 48 04.7 D	0.8	12.3		27.7 S, 69.0 W, 83 km				
	SOD	iP	00 47 54.3				Northern Chile				
	KEV	iP	00 47 45.5								
	H: 00 37 22.4					8	KJN	iP	12 53 48.5	0.8	6.2
	36.6 N, 138.0 E, 49 km						SOD	eP	12 53 42		
	Honshu, Japan						KEV	eP	12 53 36	0.9	11.8
8	NUR	eP	02 08 59				H: 12 40 57.1				
	KJN	eP	02 09 07				13.4 N, 145.5 E, 54 km				
							Mariana Islands				

August				August			
	T	A		T	A		
9	KJN	eP	00 06 22			iSKP	23 47.4
						iPKS	56.0
						eSS	41 08
9	KJN	eP	00 26 40			e	50
	SOD	eP	00 27 06			KJN	iPKP 05 20 07.6
	H:	00 20 00				i	14.7
		32.8 N, 48.7 E, 54 km				ipPKP	41.6
		Western Iran				iSKP	23 37.0
						iPKS	44.0
						eSKKP	32 24
9	NUR	eP	01 09 52			SOD	ePKP 05 20 07
	KJN	eP	01 10 31			epPKP	37
	e		38			iSKP	23 27.3
	SOD	eP	01 11 08			KEV	iPKP 05 20 06.2 U
	H:	01 05 36				ipPKP	32.5
		42.2 N, 19.0 E, 33 km (R)				ePP	22 34
		Yugoslavia				ePKS	23 24
						eSKSP	32 06
						eSS	39 14
9	NUR	iP	03 38 54.0 D	0.7	12.9		H: 05 01 09.4
	i		39 01.3				20.1 S, 175.3 W, 96 km (R)
	eS		42 40				Tonga Islands
	KJN	iP	03 39 29.5 D	0.6	8.9		
	i		35.4				
	i		43.0				
	SOD	iP	03 39 57.6				
	H:	03 34 14.3				10	NUR
		40.3 N, 19.9 E, 33 km (R)					ePP
		Albania					ePPP
							ePS
							e
							eSS
							eSSS
							KEV
							ePP
							eSKS
							ePS
							ePPS
							eSS
							eSSS
							H: 12 33 42.2
							5.5 S, 151.8 E, 40 km
							New Britain region
10	NUR	eP	02 14 15				
	KJN	eP	02 13 52				
	H:	02 03 32.9					
		52.2 N, 174.6 W, 69 km (R)					
		Andreanof Islands					
10	NUR	eP	03 31 01				
	KJN	eP	03 30 54				
10	NUR	ePKP	05 20 10	1.1	23.8		
	i		17.6				
	i		22.0				
			cont.				
10	NUR	iP	15 27 52.6	1.0	52.0		
	i		53.4				
	KJN	iP	15 28 27.4	0.7	4.1		
	SOD	iP	15 28 56.2				
	KEV	iP	15 29 16.7	0.7	10.3		
	H:	15 22 34.8					
		36.2 N, 22.2 E, 7 km					
		Southern Greece					

August										August									
				T		A						T		A					
10	NUR	iP	22 12	35.0	U	0.9	60.5												
		i		39.4															
		ePP	13	48															
	KJN	iP	22 12	35.1	U	1.0	82.8												
		i		40.3															
		iPP	13	48.0															
		i	14	14.6															
	SOD	iP	22 12	51.3	U														
		i		55.3															
		ePP	14	18															
	KEV	iP	22 13	00.5		1.0	40.0												
		ePP	14	25															
	H: 22 05 35.0																		
	38.4 N, 69.6 E, 4 km																		
	Tadzhik SSR																		
		iPKS	35	23.4															
		e		32															
	SOD	ePKP	05 31	50															
	KEV	ePKP	05 31	46															
		e		56															
		ePP	33	38															
		ePKS	35	02															
		eSS	50	50															
		e	53	30															
	H: 05 12 42.2																		
	19.3 S, 173.9 W, 33 km (R)																		
	Tonga Islands																		
11	NUR	eP	00 28	40		1.1	30.9												
		eS		32 42															
	KJN	iP	00 29	19.0	D	0.9	9.8												
		e		36															
	SOD	eP	00 29	44															
	H: 00 23 40.4																		
	37.8 N, 20.9 E, 43 km																		
	Ionian Sea																		
11	NUR	iP	04 39	08.5	U	0.8	30.2												
		eS		43 06															
	KJN	iP	04 39	44.4	U	0.9	16.1												
		i		40 03.5															
	SOD	eP	04 40	12															
	H: 04 34 17																		
	38.9 N, 21.8 E, 33 km (R)																		
	Greece																		
11	NUR	ePKP	05 32	03		1.3	85.3												
		i		14.0															
		ePP	34	44															
		ePKS	35	36															
		ePPP	36	48															
		ePSKS	44	48															
		ePPS	47	06															
		eSS	52	51															
	KJN	iPKP	05 31	55.0															
		i		32 05.0															
	cont.																		
		ePKP	23 45	01															
		ePP		47 56															
		ePKS		48 38															
		e		53 18															
		eSS	24	06 21															
	KJN	iPKP	23 44	59.0															
	SOD	ePKP	23 44	53															
		e		45 09															
	KEV	ePKP	23 44	51															
		ePP		47 02															
		ePKS		48 14															
		eSKSP		57 17															
		e	24	07 04															
	H: 23 25 37.9																		
	23.4 S, 175.9 W, 37 km (R)																		
	Tonga Islands																		





August										August									
					T	A							T	A					
14	NUR	eP	05 45 36									KJN	iP	10 31 25.0	1.7	172.9			
	H:		05 34 49									i		31.4					
			51.9 N, 178.5 W, 47 km									SOD	iP	10 31 42.1					
			Andreanof Islands									i		49.1					
14	NUR	eP	14 00 47									KEV	eP	10 31 50					
	SOD	eP	14 00 56									e		32 08					
												ePPP		36 15					
15	NUR	iP	02 24 10.0	D	1.0	244.0						eS		41 04					
	i		16.4									e		24					
	eS		31 14									eSS		45 45					
	eSS		34 54									eSSS		49 13					
	KJN	iP	02 24 09.3	D	1.0	125.4						H:		10 20 42.2					
	i		20.0											3.8 N, 64.0 E, 37 km					
	i		25 12.0											Carlsberg Ridge					
	SOD	iP	02 24 21.9	D							15	NUR	eP	11 09 08					
	i		29.0									e		43					
	e		25 18									SOD	eP	11 08 19					
	eS		31 22									H:		10 58 51.7					
	KEV	iP	02 24 28.8	D	1.1	104.9								58.2 N, 153.1 W, 41 km (R)					
	eS		31 50											Kodiak Island					
	eSS		35 14								15	NUR	iP	13 46 26.2	1.0	56.0			
	e		40 12									i		31.1					
	H:		02 15 33.8									i		47.4					
			28.7 N, 78.9 E, 50 km									i		47 47.4					
			Northern India									e		49 40					
15	NUR	iP	02 57 51.4		1.2	82.7						ePPP		50 08					
	i		53.0									eS		54 31					
	e		58 45									eScS		56 14					
	eS		03 08 06									eSS		58 38					
	e		09 28									KJN	iP	13 46 03.2	U	0.9	58.0		
	KJN	eP	02 57 41									i		07.2					
	SOD	iP	02 57 40.7									i		28.2					
	i		48.2									SOD	iP	13 45 37.9	U				
	e		58 36									i		43.0					
	i		41.5									KEV	eP	13 45 20					
	KEV	iP	02 57 39.6		0.7	25.2						ePP		47 08					
	i		43.6									ePcS		50 34					
	eS		03 07 50									eS		52 26					
	eScS		08 10									eScS		55 10					
	e		09 32									eSS		56 28					
	eSS		12 22									H:		13 36 23.7					
	H:		02 45 32.3											60.4 N, 146.0 W, 9 km					
			13.3 N, 121.3 E, 14 km											Southern Alaska					
			Mindoro, P.I.																
15	NUR	eP	03 47 21									15	KJN	eP	19 46 55				
	KJN	eP	03 48 04										SOD	eP	19 46 30				
													H:		19 37 16				
															61.2 N, 150.0 W, 98 km				
															Southern Alaska				
15	NUR	iP	10 31 13.8																
	eS		39 48																
	eSS		44 12																
	e		47 06																
	eLR		10 52																

August				August			
		T	A		T	A	
	esPP	25	42				
	eS	28	50				
	esS	30	15				
KJN	iP	02 23	19.3 U				
SOD	iP	02 23	34.7 U				
	i	24	11.0				
	iPP	25	06.1				
KEV	eP	02 23	43				
	epP	24	25				
	esP		40				
	epPP	25	51				
	esPP	26	18				
	eS	29	32				
	esS	31	00				
H: 02 16 19.7							
36.4 N, 70.8 E, 199 km							
Hindu Kush							
16	NUR	eP	02 51 36				
	KJN	eP	02 51 12				
	SOD	eP	02 50 34				
H: 02 47 45.0							
71.2 N, 6.3 W, 33 km (R)							
Jan Mayen Island							
16	NUR	iP	03 33 07.3				
	KJN	eP	03 34 06				
	SOD	eP	03 34 36				
BCIS:							
H: 03 28 40							
40.0 N, 20.0 E							
Albania							
16	NUR	iP	03 58 19.7	0.7		25.8	
	i		24.1				
	eS	04 02	12				
KJN	iP	03 58	59.2	0.8		29.2	
	i		59 11.6				
	i	04 00	41.2				
	iS	03	24.0				
	e		37				
SOD	iP	03 59	27.2				
H: 03 53 42.9							
40.3 N, 19.9 E, 33 km (R)							
Albania							
16	NUR	eP	06 29 11				
	KJN	eP	06 28 41				
	SOD	eP	06 28 37				
16	KJN	iP	09 56 21.3 U	0.6		12.3	
	i		32.0				
H: 09 43 25.1							
5.8 S, 104.4 E, 33 km (R)							
Southern Sumatra							
	16	NUR	iPKP	18 06	51.7	0.8	18.7
		KJN	ePKP	18 06	41		
		SOD	ePKP	18 06	32		
H: 17 47 41.9							
27.7 S, 178.2 W, 192 km							
Kermadec Islands							
	16	NUR	iP	18 14	29.3	0.9	30.2
		e		15	38		
		eS		24	17		
	KJN	iP	18 14	16.7 U	0.7	21.2	
	KEV	eP	18 13	45			
		eS		22	58		
		eSSS		30	16		
H: 18 02 36.1							
37.4 N, 114.2 W, 33 km (R)							
Southern Nevada							
	16	NUR	ePKP	20 04	56		
		ePP		07	22		
		eSKP		09	20		
		eSKS		12	08		
		e			29		
		e		15	24		
		eSPP		19	12		
		e		20	40		
		eSS		25	10		
		eLQ	20	41.8			
		eLR	20	47.7			
	KJN	e	20	07 58			
		e		08 19			
	KEV	ePP	20	07 15			
		e		09 30			
		e		10 50			
		ePPS		18 09			
		e		19 06			
		e			42		
		eSS		23	10		
		eSSS		28	10		
H: 19 45 38.7							
21.4 S, 171.3 E, 36 km							
Loyalty Islands							
	16	NUR	eP	22 21	38		
		e			46		
		KJN	iP	22 21	14.0		
		SOD	iP	22 20	38.3		
H: 22 18 00							
71.4 N, 2.8 W, 33 km (R)							
Jan Mayen Island							
	16	NUR	eP	23 14	42		
		KJN	eP	23 14	25		
		i			42.3		
		i			49.6		
		SOD	eP	23 14	33		





August

August

					T	A						T	A	
	KJN	iP	12 57 17.2	U	1.2	172.0		19	KJN	iP	13 45 41.9	D	0.9	21.4
		i							SOD	eP	13 45 32			
		e	58 26											
		i	50.8					19	NUR	iP	13 49 11.6			
	SOD	iP	12 57 06.2	U					KJN	iP	13 49 33.1	1.0	21.8	
		i												
		e	43.0											
	KEV	iP	12 56 57.0		1.3	69.9		19	NUR	iP	13 59 36.5			
		i	57 06.0							i		39.0		
	H:		12 46 23.7						KJN	iP	14 00 01.8	1.2	68.8	
			36.4 N, 141.7 E, 28 km (R)							i		31.0		
			Honshu, Japan							e	03 23.8			
										e	05 07			
19	NUR	eP	13 00 50		1.2	38.0			SOD	iP	14 00 29.6			
	KJN	eP	13 00 42							e	52			
										e	03 43			
19	KJN	eP	13 01 44						KEV	iP	14 00 51.1	1.6	138.1	
	SOD	eP	13 02 11							i	01 47.9			
										i	02 17.7			
19	NUR	eP	13 02 24						H:		13 54 24.9			
	KJN	iP	13 02 41.1		0.9	18.8					38.9 N, 41.7 E, 33 km			
											Turkey			
19	NUR	eP	13 13 47											
	KJN	iP	13 14 11.7		1.0	20.7		19	NUR	iP	14 09 07.4	D	0.7	7.9
	SOD	eP	13 14 39						KJN	iP	14 09 30.2	U	0.9	29.5
19	NUR	eP	13 15 22							e	10 27			
	KJN	eP	13 15 40						SOD	eP	14 09 58			
									H:		14 03 58			
19	NUR	iP	13 20 19.4	U	1.3	136.1					39.2 N, 41.3 E, 33 km (R)			
	KJN	iP	13 20 42.8	U	1.0	107.9					Turkey			
		e	23 43											
		i	24 26.0											
	SOD	iP	13 21 10.6	U										
		i						19	NUR	iP	14 23 05.3	1.2	93.4	
		e	23 25							i	09.7			
	KEV	iP	13 21 30.0							i	20.8			
	H:		13 15 10.1							eS	27 20			
			39.2 N, 41.1 E, 33 km (R)							KJN	iP	14 23 27.9	1.0	79.6
			Turkey								i	31.0		
											e	24 40		
19	NUR	eP	13 26 00							SOD	iP	14 23 56.4		
	KJN	eP	13 26 21								e	24 22		
										KEV	eP	14 24 16		
19	NUR	ePKP	13 33 13							H:		14 17 57.5		
	H:		13 14 06									39.2 N, 41.1 E, 47 km		
			16.4 S, 167.0 E, 4 km									Turkey		
			New Hebrides Islands					19	NUR	eP	15 29 20			
19	NUR	iP	13 33 24.1	U	1.0	14.4			KJN	eP	15 30 00			
	KJN	iP	13 33 46.0		1.0	21.8		19	NUR	eP	16 36 07			
		i	34 07.9						KJN	iP	16 36 30.3	0.8	11.5	
19	NUR	iP	13 38 06.0		1.1	22.0								
	KJN	iP	13 38 27.4	U	1.0	24.0		19	NUR	eP	17 09 54			



August				T	A	August				T	A	
19	NUR	iP	18 46 26.4			SOD	iP	08 38 44.4				
		i	32.5				e	39 27				
		i	47 32.5				H:	08 27 00				
		eS	50 48					22.6 N, 143.0 E, 173 km				
	KJN	iP	18 46 49.6 D	1.0	26.2			Volcano Islands				
		i	55.0	0.9	52.7							
		e	47 54									
	SOD	eP	18 47 23			20	NUR	iP	09 42 50.5 D	1.0	320.0	
		H:	18 41 16.0					i	43 06.5			
			39.1 N, 41.4 E, 33 km (R)					i	40.3			
			Turkey					e	44 43			
								e	46 50			
19	NUR	eP	21 10 49					iS	51 14.2			
	KJN	eP	21 11 11					isS	52 25.0			
19	NUR	eP	21 25 20				KJN	eSS	55 24			
	KJN	eP	21 25 35					iP	09 42 28.9 D			
19	NUR	eP	21 43 56					iPcP	43 16.0			
	KJN	iP	21 44 18.2	0.8	7.7			iPP	44 32.9			
		i	22.2					i	46 16.9			
								i	44.8			
19	NUR	eP	21 48 01					eS	50 33			
	KJN	eP	21 48 21	1.1	16.2		SOD	iP	09 42 16.2 D			
19	NUR	eP	21 57 53					e	43 11			
20	NUR	eP	00 32 36					ePP	44 14			
		e	46					e	46 45			
	KJN	eP	00 33 01					eS	50 11			
20	NUR	eP	02 18 33				KEV	iP	09 42 05.1 D	0.9	155.8	
		e	38					i	14.7			
	KJN	eP	02 19 02	1.3	41.2			ipP	44.2			
			Moscow:					e	43 19			
			H: 02 13 33					e	45			
			39.7 N, 42.0 E					eS	49 48			
			Turkey					eScS	51 27			
								eSS	53 30			
								H:	09 32 31.7			
									43.1 N, 140.6 E, 161 km			
									Hokkaido, Japan			
20	NUR	eP	02 49 04			20	NUR	iP	11 43 56.8	0.7	22.4	
		e	11				KJN	iP	11 43 55.0 U	0.8	19.2	
	KJN	eP	02 49 25					SOD	iP	11 44 00.3 U		
20	NUR	iP	03 53 09.7					KEV	i(P)	11 44 11.8 U		
20	NUR	eP	04 50 39					H:	11 31 20			
	KJN	eP	04 51 01						4.0 S, 102.7 E, 111 km			
			Moscow:						Southern Sumatra			
			H: 04 45 22									
			38.6 N, 41.4 E									
			Turkey									
20	NUR	iP	08 39 08.0				20	NUR	iP	12 04 18.0	1.4	411.6
	KJN	iP	08 38 52.7 D	0.8	12.3				i	19.4		
		epP	39 26						e	05 26		
			cont.						eS	08 20		
									e	38		
								KJN	iP	12 04 42.1 D		
									i	43.3		
									iPP	05 28.0		
								SOD	iP	12 05 10.3		
									i	11.2		
									i	39.2		
										cont.		

August				T	A	August				T	A
	KEV	iP	12 05 30.8 U	1.3	81.8	20	NUR	ePKP	23 14 23		
		i	06 08.0					i	26.7		
		i	53.0					ePP	17 20		
		eS	10 42					ePKS	18 04		
		e	11 20					e	19 20		
	H: 11 59 12.1						KJN	ePKP	23 14 13		
	39.3 N, 40.9 E, 37 km							i	21.0	0.9	18.8
	Turkey							i	40.3		
20	NUR	iP	12 06 54.0 U	1.3	446.7		SOD	ePKP	23 14 16		
	KJN	iP	12 07 13.0 U					e	33		
	KEV	iP	12 08 04.6 D	1.5	186.8		KEV	ePKP	23 14 11		
	H: 12 01 43							e	30		
	39.0 N, 40.9 E, 33 km (R)							ePP	16 24		
	Turkey							ePKS	17 38		
20	NUR	eP	12 09 35					e	18 04		
	KJN	iP	12 10 16.2					ePS	26 50		
		i	38.0					eSS	33 42		
	SOD	eP	12 10 45					e	36 26		
	H: 12 05 19.0							H: 22 55 03.0			
	42.3 N, 18.6 E, 22 km							23.4 S, 176.0 W, 57 km			
	Yugoslavia							South of Fiji Islands			
20	KJN	eP	13 13 11			21	NUR	iP	00 20 14.6 D	0.8	17.6
	H: 13 08 13							i	19.5		
	42.2 N, 18.3 E, 33 km (R)							i	31.0		
	Yugoslavia						KJN	iP	00 20 38.0	1.2	48.2
20	NUR	eP	15 22 41					i	21 04.9		
	KJN	eP	15 23 04	1.0	17.4		SOD	eP	00 21 04		
	BCIS:						H: 00 15 04.1				
	H: 15 17 33						39.2 N, 41.8 E, 33 km (R)				
	39.6 N, 40.3 E						Turkey				
	Turkey					21	NUR	iP	01 35 18.3		
20	NUR	eP	17 59 13					i	29.7		
		i	20.4					i	40.3		
	KJN	iP	17 59 36.4 U	0.9	10.7			i	36 04.3		
	H: 17 54 03							iS	39 03.6		
	39.3 N, 41.2 E, 33 km (R)						KJN	iP	01 35 59.1		
	Turkey							i	36 04.2		
20	NUR	eP	18 38 56					e	38 40		
	KJN	iP	18 39 18.0	1.0	9.8		SOD	eP	01 36 29		
								e	51		
								i	37 23.7		
20	NUR	iP	19 12 38.3	1.0	24.6		KEV	iP	01 36 54.1		
	KJN	iP	19 13 22.0	1.0	28.3			e	37 24		
	SOD	iP	19 13 51.8					eS	41 43		
	H: 19 08 21.4							e	42 00		
	42.3 N, 18.9 E, 20 km						H: 01 30 45.2				
	Yugoslavia						40.3 N, 27.4 E, 33 km (R)				
							Turkey				

August				T	A	August				T	A
21	NUR	eP	02 30 17			21	NUR	iP	20 37 05.7 U	1.0	44.0
	KJN	iP	02 30 41.2 D	1.0	21.8		KJN	iP	20 36 48.3 U	0.9	28.6
		i	56.0				SOD	iP	20 36 41.1		
	SOD	eP	02 31 10				KEV	iP	20 36 34.7 U	0.8	23.0
	H: 02 25 09						H: 20 25 36.2				
	39.3 N, 41.9 E, 33 km (R)						28.9 N, 132.0 E, 34 km				
	Turkey						East of Ryukyu Islands				
21	NUR	iP	05 13 13.0 U	0.8	138.2	21	NUR	eP	21 18 17		
		i	24.2				KJN	iP	21 18 35.5	0.9	12.5
		ePP	16 40								
		eSKS	23 35								
		eS	52			21	NUR	eP	22 41 46		
	KJN	iP	05 13 02.6 U					i	52.3		
		ePP	16 26				KJN	iP	22 42 09.2 D	1.0	21.8
		eSKS	23 21				BCIS:				
		eS	32				H: 22 36 34				
		ePS	24 46				39.3 N, 41.4 E				
	SOD	iP	05 13 00.6 U				Turkey				
		e	57								
		e	16 03			22	NUR	eP	04 25 11		
		eS	23 31				KJN	iP	04 24 40.0		
		eScS	42			22	NUR	eP	11 20 51		
	KEV	iP	05 12 57.6 U	0.9	62.2		H: 11 10 13				
		i	13 11.0				53.8 N, 163.8 W, 35 km (R)				
		ePP	16 16				Unimak Island				
		eSKS	23 16								
		eS	22			22	NUR	iP	14 30 24.6 D	0.5	66.0
		e	46				ipP	32 28.3			
		ePS	24 09				iScP	34 00.4			
		e	26 22				eS	37 50			
	H: 05 00 26.8						eScS	39 08			
	8.5 N, 126.7 E, 67 km						esS	41 34			
	Mindanao, P.I.						e	45 16			
21	KJN	eP	11 55 39			KJN	iP	14 30 01.6 D	0.8	49.9	
	H: 11 50 40						ipP	47.0			
	42.1 N, 18.6 E, 33 km (R)						iScP	32 03.2			
	Yugoslavia						eS	33 45.9			
21	NUR	eP	15 23 01				eS	37 08			
		e	07				eScS	38 43			
	KJN	eP	15 23 23	1.1	13.5	SOD	iP	14 29 45.6 D			
	BCIS:						ipP	31 43.0			
	H: 15 17 52						iScP	33 33.6			
	39 1/4 N, 41 3/4 E						eS	36 38			
	Turkey						KEV	iP	14 29 32.8 D	0.6	37.8
21	NUR	eP	16 37 50				ipP	30 31.6			
	KJN	iP	16 38 14.5	1.1	13.5		e	32 53			
21	NUR	eP	18 38 53				eScP	33 27			
	KJN	eP	18 39 15				eS	36 15			
	H: 18 34 01						eScS	38 14			
	41.8 N, 43.5 E, 33 km (R)						H: 14 21 13.7				
	Turkey-USSR border						50.3 N, 147.6 E, 628 km				
							Sea of Okhotsk				





August

					T	A
	KEV	iP	18 33 24.9 U		0.7	20.6
		e	51			
		eS	42 30			
	H: 18 22 16.7					
	23.8 N, 123.2 E, 37 km					
	Southwestern Ryukyu Islands					
23	KJN	eP	19 23 34			
	SOD	eP	19 23 14			
	H: 19 13 19					
	51.9 N, 176.2 E, 50 km					
	Rat Islands					
23	KJN	ePKP	22 54 18			
	H: 22 35 02					
	16.3 S, 173.2 W, 33 km (R)					
	Tonga Islands					
24	NUR	iPKP	02 10 44.7		0.7	15.5
	KJN	ePKP	02 10 41			
	SOD	ePKP	02 10 41			
	H: 01 51 07.3					
	30.1 S, 177.5 W, 21 km					
	Kermadec Islands					
24	KJN	ePKP	02 39 09			
	H: 02 20 49					
	19.0 S, 177.7 W, 442 km					
	Fiji Islands					
24	NUR	eP	02 54 16			
	KJN	eP	02 54 14			
	H: 02 47 01					
	37.2 N, 73.2 E, 72 km					
	Tadzhik SSR					
24	NUR	eP	04 39 47			
	KJN	eP	04 39 45			
24	KJN	iP	06 59 11.5 D		0.9	11.6
		e	07 00 34			
	SOD	eP	06 59 29			
		ePP	07 01 10			
	KEV	eP	06 59 41			
	H: 06 51 15.8					
	29.9 N, 68.6 E, 33 km (R)					
	West Pakistan					
24	NUR	eSKS	07 42 02			
		eSKKS	50			
		e	44 10			
		ePS	56			

cont.

August

					T	A
	KJN	ePP	07 36 18			
		ePKKP	46 46			
	SOD	ePKKP	07 46 49			
	H: 07 17 17.8					
	19.9 S, 69.2 W, 100 km (R)					
	Northern Chile					
25	NUR	eP	00 28 07			
	SOD	eP	00 29 23			
25	NUR	i	00 44 17.5		1.0	22.0
	KJN	iP	00 43 42.7		1.0	6.5
	H: 00 32 50					
	32.1 N, 132.3 E, 34 km					
	Shikoku, Japan					
25	NUR	eP	23 04 16			
	KJN	eP	23 04 33			
		i	53.6			
	SOD	eP	23 04 59			
26	NUR	iPKP	01 11 17.0		1.3	122.8
		i	23.7			
		i	34.7			
		e	12 27			
		ePKS	14 57			
	KJN	ePKP	01 11 06			
		i	15.2		1.2	44.7
		i	29.9			
		ePKS	14 48			
	SOD	ePKP	01 11 16			
		i	31.9			
	KEV	ePKP	01 11 14			
		e	43			
	H: 00 51 51.3					
	27.5 S, 177.3 W, 59 km (R)					
	Kermadec Islands					
26	NUR	eP	04 38 15			
	KJN	iP	04 37 55.9 D		1.0	14.2
	SOD	eP	04 37 46			
	H: 04 27 03					
	35.7 N, 140.7 E, 59 km					
	Honshu, Japan					
26	KJN	iP	06 03 05.2 D		1.0	20.7
	SOD	iP	06 03 17.3			
	H: 05 56 24.3					
	38.1 N, 8.4 W, 33 km (R)					
	Portugal					
26	NUR	ePKP	09 26 11			
		ePP	29 06			
		eSKP	40			
		ePKS	44			
		eSS	46 18			

cont.

August		T	A	August		T	A
	KJN ePKP 09 26 04			28	NUR eP 02 05 31		
	ePKS 29 33				KJN eP 02 05 26		
	e 45			28	NUR eP 02 24 23		
	KEV ePP 09 28 14				KJN eP 02 24 28		
	eSKKS 34 14				SOD iP 02 24 24.2		
	e 36 15			28	NUR eP 04 20 27		
	H: 09 06 50.4				KJN iP 04 20 08.5		
	22.1 S, 170.0 E, 33 km				SOD eP 04 20 00		
	Loyalty Islands				KEV eP 04 19 50		
26	NUR iP 10 28 49.5	1.0	24.0		H: 04 09 24.3		
	i 54.5				36.6 N, 138.1 E, 24 km		
	i 29 30.4				Honshu, Japan		
	KJN eP 10 28 25			28	NUR iP 04 22 28.8		
	i 28.4				eS 25 54		
	i 37.3				KJN iP 04 23 11.0	1.0	17.4
	e 29 16				e 24		
	SOD iP 10 27 56.5				e 24 19		
	i 28 01.8				SOD eP 04 23 42		
	KEV iP 10 27 42.4 U	0.8	17.3		H: 04 18 13.3		
	H: 10 19 34.8				42.2 N, 18.7 E, 39 km		
	67.1 N, 161.9 W, 14 km				Yugoslavia		
	Alaska			28	NUR iP 07 49 06.4 D		
27	KJN eP 02 49 21				i 12.0 U	1.2	493.1
	ipP 50 09.6				i 18.0		
	SOD iP 02 49 19.8				i 24.1		
	H: 02 36 33.0				i 52.6		
	3.2 N, 128.2 E, 170 km				i 50 03.8		
	North of Halmahera				iPP 52 44.6		
27	NUR iP 04 48 35.8	1.1	19.0		KJN iP 07 49 01.4 D		
	KJN iP 04 48 27.0 U	1.2	36.1		i 03.2		
	e 49 18				e 29		
	SOD eP 04 48 25				i 50.0		
	H: 04 35 48.0				e 50 21		
	5.8 N, 125.9 E, 119 km				SOD iP 07 48 56.2 U		
	Mindanao, P.I.				i 49 17.4		
27	NUR iP 13 09 44.0 D	1.0	30.0		i 51.0		
	i 10 11.7				i 50 09.0		
	KJN iP 13 09 23.8 D	0.9	45.5		KEV iP 07 48 50.0	0.7	14.2
	ePcP 57				H: 07 29 34.7		
	SOD iP 13 09 11.7 D				35.8 S, 178.5 E, 94 km		
	KEV eP 13 09 01				North Island, N.Z.		
	H: 12 58 56.3			28	SOD eP 08 00 22		
	39.5 N, 141.1 E, 95 km						
	Honshu, Japan			28	NUR iP 10 20 42.0 U	0.9	38.6
27	NUR iP 17 23 07.5				iPKKP 31 30.5		
	KJN iP 17 22 56.7	0.6	8.9		KJN eP 10 16 36		
	i 58.7				iPKP 20 36.2	1.0	24.0
	SOD eP 17 22 54				ePP 21 18		
	H: 17 10 44						
	13.9 N, 123.6 E, 13 km						
	Luzon, P.I.						

cont.

August

T A

epPKP 22 40  
ePKKP 31 41  
i 53.8  
SOD ePKP 10 20 32  
iPKKP 31 45.0  
KEV ePKP 10 20 31  
eSKS 26 14  
eSP 29 26  
eSPP 30 20  
ePKKP 31 50  
H: 10 03 03.0  
4.6 S, 155.2 E, 509 km (R)  
Solomon Islands

28 NUR iP 10 50 02.4 D 1.2 74.1  
ipP 41.0  
e 55  
i 51 01.5  
i 17.2  
e 54 50  
eS 55 37  
KJN iP 10 50 02.2 D 0.7 17.1  
epP 40  
esP 58  
iPP 51 16.3  
SOD iP 10 50 18.8 U  
esP 51 12  
e 26  
e 52 24  
KEV eP 10 50 27  
esP 51 20  
H: 10 43 01.0  
36.3 N, 70.9 E, 173 km  
Hindu Kush

28 KJN eP 12 46 04  
SOD eP 12 46 32  
H: 12 41 02  
41.8 N, 18.7 E, 33 km (R)  
Adriatic Sea

28 NUR iP 13 39 54.3 0.9 26.9  
KJN iP 13 39 29.0 U 1.0 16.4  
iPcP 40 05.2  
SOD iP 13 39 09.2  
H: 13 29 15  
51.7 N, 176.8 E, 66 km  
Rat Islands

28 NUR eP 15 47 24  
KJN eP 15 47 03 1.1 21.6  
SOD eP 15 46 53  
KEV eP 15 46 45  
H: 15 36 18.5  
36.6 N, 138.2 E, 17 km  
Honshu, Japan

August

T A

28 NUR eP 18 46 26  
28 NUR iP 19 08 09.2 1.2 17.1  
28 NUR iP 19 08 19.6  
KJN iP 19 08 11.4 U 1.2 29.2  
e 37  
SOD iP 19 08 11.7  
e 49  
H: 18 56 19  
13.7 N, 120.7 E, 110 km  
Mindoro, P.I.

28 NUR iP 20 14 43.0 0.5 10.6  
KJN iP 20 14 22.6 U 0.7 12.3  
SOD iP 20 14 13.1  
KEV eP 20 14 04  
H: 20 03 35.4  
35.9 N, 139.7 E, 66 km (R)  
Honshu, Japan

28 NUR iP 22 44 09.4  
KJN eP 22 43 59 0.8 8.5  
i 44 05.0  
SOD iP 22 43 57.9 D  
i 44 04.3  
KEV eP 22 43 55 0.9 11.8  
e 45 24  
ePP 47 35  
eSKS 54 26  
ePS 55 38  
eSS 23 00 52  
H: 22 30 55.1  
2.3 N, 128.4 E, 75 km  
Halmahera

29 NUR eP 04 15 33  
KJN eP 04 15 16

29 KJN eP 12 20 55  
SOD eP 12 20 46  
H: 12 10 25.5  
33.0 N, 137.8 E, 338 km  
South of Honshu, Japan

29 NUR eP 13 38 55  
KJN i 13 38 45.4  
e 41 48  
H: 13 28 18  
46.5 N, 152.6 E, 53 km (R)  
Kurile Islands

29 KJN eP 14 48 43



August						August					
				T	A				T	A	
29	KJN	eP	19 44 34			SOD	iP	12 52 25.6			
			H: 19 31 24				e	43			
			6.8 N, 82.2 W, 28 km			KEV	iP	12 52 22.5	0.7	11.6	
			South of Panama					H: 12 40 27.5			
29	NUR	iP	22 40 51.5	0.7	7.7			13.4 N, 120.7 E, 81 km			
	KJN	iP	22 40 34.2	0.8	6.2			Mindoro, P.I.			
		i	50.0			30	KJN	eP	19 55 37		
		iPcP	41 20.5				SOD	eP	19 55 36		
	SOD	iP	22 40 04.5					H: 19 42 44			
	KEV	eP	22 39 47					3.6 N, 126.3 E, 33 km (R)			
			H: 22 30 22.8					Talau Islands			
			56.3 N, 153.1 W, 33 km (R)								
			Kodiak Island								
30	NUR	iP	06 18 28.0	1.0	26.0	30	NUR	iP	20 30 46.2 D	1.1	128.2
		i	37.3					i	31 02.5		
		e(S)	24 38					eS	38 46		
		eSS	28 06					eScS	40 28		
	KJN	iP	06 18 06.3	0.8	13.1		KJN	iP	20 30 22.1 D	1.2	141.0
		i	09.0					i	32.0		
		i	15.1					i	45.0		
		ePP	19 38				SOD	iP	20 29 57.2 D		
	SOD	eP	06 17 58					i	30 12.0		
		e	19 08					i	49.6		
	KEV	eP	06 17 55					ePcP	31 11		
		eS	23 48				KEV	iP	20 29 39.9 U	1.1	57.1
			H: 06 10 33.4					i	47.7		
			51.7 N, 104.4 E, 33 km (R)					eS	36 41		
			Lake Baikal					e	38 44		
								H: 20 20 54.0			
30	KJN	eP	06 49 31					61.3 N, 147.5 W, 36 km (R)			
			H: 06 42 26					Southern Alaska			
			32.2 N, 56.1 E, 33 km (R)								
			Iran								
30	NUR	iPKP	08 55 44.4	0.6	12.5	30	NUR	iP	20 33 10.8	1.0	39.2
		i	55.8				KJN	iP	20 32 46.1 U	1.0	43.6
	KJN	iPKP	08 55 34.2 U	0.9	20.5			e	33 24		
		i	45.2				SOD	iP	20 32 21.4		
			H: 08 36 05					i	52.8		
			33.1 S, 179.2 W, 43 km				KEV	iP	20 32 03.1	1.1	45.2
			South of Kermadec Islands					i	25.9		
								H: 20 23 18			
30	NUR	iP	12 52 36.7	0.9	26.9			61.5 N, 147.5 W, 33 km (R)			
		i	51.8					Southern Alaska			
		i	53 03.2								
		eS	13 02 36			31	NUR	eS	00 01 34		
	KJN	iP	12 52 25.5 U	0.7	21.9			e	04 54		
		e	41					eSS	07 36		
		i	49.7				KEV	eS	00 00 30		
		i	53 06.3					eSS	06 04		
		eS	13 02 18					H: 23 37 19			
		e	29					18.7 N, 107.0 W, 54 km			
			cont.					Jalisco, Mexico			

August						August				
				T	A					
						T	A			
31	NUR	iP	01 26 13.0	0.4	16.3	KEV	iP	18 18 02.9		
	KJN	iP	01 26 12.0				i	04.4		
	SOD	eP	01 26 28				i	44.3		
	H: 01 19 01						eS	20 04		
	36.5 N, 71.4 E, 80 km						eLR	18 20.5		
	Afghanistan-USSR border						H: 18 15 40			
							71.6 N, 2.7 W, 33 km (R)			
							Jan Mayen Island			
31	NUR	iP	06 59 48.3	1.0	19.6	31	NUR	iP	20 59 17.0	
		e	07 00 20				i	23.6		
	KJN	eP	06 59 23				KJN	eP	20 59 38	
	SOD	eP	06 59 00				e	45		
31	NUR	eP	13 26 22				BCIS:			
		e	31 14				H: 20 54 30			
	KJN	eP	13 26 00				39.2 N, 41.5 E			
	SOD	eP	13 25 16				Turkey			
31	NUR	eP	15 54 14							
		e	31							
	KJN	iP	15 54 02.3	1.0	21.8					
	SOD	iP	15 54 02.0							
	H: 15 42 13									
	15.1 N, 120.0 E, 76 km									
	Luzon, P.I.									
31	NUR	iP	17 49 24.0							
	KJN	eP	17 49 03							
	H: 17 38 45									
	41.9 N, 142.0 E, 75 km									
	Hokkaido, Japan									
31	NUR	iP	18 19 16.4 D	1.2	78.1					
		i	22.0							
		i	37.0							
		eS	21 46							
		e	22 12							
	KJN	iP	18 18 50.4 D	1.1	64.8					
		i	58.0							
		i	19 55.0							
		eS	21 11							
	SOD	iP	18 18 16.2 D							
		i	19 14.0							
	cont.									

January 23, 1967

Urmas Luosto  
Aili Huovila



September

September

				T	A
1	NUR	iP	01 42 10.2	1.2	41.9
		i	55.0		
		eS	44 54		
		e	45 06		
		e	46 07		
	KJN	iP	01 41 44.0	1.1	50.0
		i	42 13.4		
		i	43 09.2		
		eS	44 08		
		e	16		
		e	45 00		
	SOD	iP	01 41 10.2		
		i	42 21.0		
		eS	43 10		
	KEV	iP	01 40 56.7	0.7	21.9
		i	41 18.1		
		i	39.0		
		eS	42 58		
	H: 01 38 29.9				
	71.8 N, 2.8 W, 17 km				
	Jan Mayen Island				
1	NUR	eP	03 04 00		
	KJN	eP	03 03 34		
		eS	05 52		
	SOD	eP	03 03 01		
	H: 03 00 21				
	71.8 N, 2.6 W, 33 km (R)				
	Jan Mayen Island				
1	NUR	ePKP	09 15 12	0.9	11.8
	H: 08 57 14.0				
	0.5 S, 134.3 E, 66 km				
	West New Guinea				
1	NUR	eP	12 40 32		
	KJN	eP	12 41 13		
	H: 12 35 33				
	38.1 N, 22.8 E, 36 km				
	Greece				
1	KJN	eP	14 21 57		
	SOD	eP	14 21 34		
	H: 14 11 25				
	50.6 N, 129.5 W, 33 km (R)				
	Vancouver Island				
1	NUR	iP	14 27 52.8 D	0.8	54.7
	KJN	iP	14 27 33.5 D	0.8	64.6
		i	55.0		
	SOD	iP	14 27 24.0 D		
	KEV	iP	14 27 14.6	0.8	15.8
	H: 14 16 14.1				
	31.8 N, 142.4 E, 42 km				
	South of Honshu, Japan				

				T	A
1	NUR	iP	14 28 02.7	0.6	48.8
		i	30 21.5		
		eS	32 06		
		e	14		
		eSS	47		
		e	33 14		
		e	34 08		
	KJN	iP	14 28 38.3	0.6	14.4
		i	50.4		
		i	29 11.0		
		eS	33 19		
		e	31		
	SOD	iP	14 29 06.1		
		i	12.2		
		i	26.5		
		i	31 25.2		
	KEV	iP	14 29 27.0 U	1.2	62.7
		i	47.0		
		i	30 10.0		
		eS	34 39		
		eSS	36 28		
		e	42		
	H: 14 22 57.0				
	37.5 N, 22.1 E, 17 km				
	Southern Greece				
1	KJN	ePKP	15 44 13		
	H: 15 24 59.2				
	20.6 S, 175.4 W, 33 km (R)				
	Tonga Islands				
1	NUR	iP	19 21 38.8 D	1.1	109.5
		i	44.0		
		i	23 33.2		
		eS	24 34		
	KJN	iP	19 21 12.8 D	1.2	129.0
		i	31.7		
		eS	23 24		
		e	36		
	SOD	iP	19 20 38.3		
		i	21 48.9		
		eS	22 41		
		i	53.0		
	KEV	eP	19 20 25	0.9	21.8
		e	56		
		eS	22 12		
		e	28		
	H: 19 18 00.6				
	71.6 N, 2.9 W, 33 km (R)				
	Jan Mayen Island				
1	KJN	iP	21 33 34.0	1.1	20.3
	H: 21 27 39				
	58.3 N, 32.6 W, 33 km (R)				
	North Atlantic Ocean				

September						September			
				T	A				
1	NUR	eP	23 28 57			2	NUR	iP	11 20 14.8
		e	29 04				KJN	iP	11 20 30.6 U
	KJN	eP	23 28 31				SOD	iP	11 20 55.4
		i	43.0				KEV	iP	11 21 11.0
		ePcP	29 34				H: 11 13 00		
	SOD	eP	23 28 06				27.7 N, 52.4 E, 33 km (R)		
		i	18.0				Southern Iran		
		e	56			2	NUR	eP	11 55 31
		i	29 34.5			2	NUR	eP	13 09 27
	KEV	eP	23 27 48	0.8	14.4	2	KJN	iP	18 29 10.0
		e	55				SOD	eP	18 29 35
		e	28 18			2	NUR	eP	20 00 40
	H: 23 19 09.8					2	SOD	eP	21 32 33
	61.8 N, 149.6 W, 77 km						H: 21 20 17		
	Southern Alaska						26.8 N, 110.8 W, 34 km		
2	KJN	eP	00 19 44				Gulf of California		
	H: 00 09 16					2	NUR	eP	22 25 46
	1.0 N, 30.2 E, 19 km						SOD	eP	22 25 06
	Uganda						H: 22 14 50.9		
2	NUR	eP	00 42 35	0.9	11.8		53.1 N, 169.8 W, 33 km (R)		
	KJN	iP	00 42 24.2	0.9	8.9		Fox Islands		
		i	28.0			2	NUR	eP	22 56 39
2	NUR	iP	01 05 32.3	0.8	17.3		e	47	
		i	43.4				KJN	iP	22 56 15.9 U
	KJN	iP	01 05 07.0 U				SOD	iP	22 55 51.5 U
		i	18.4				H: 22 46 39.5		
		ePcP	44				60.2 N, 146.9 W, 31 km		
	SOD	eP	01 04 47				Southern Alaska		
		i	58.0			3	NUR	eP	08 22 20
		e	05 09				SOD	eP	08 21 44
	KEV	eP	01 04 32				H: 08 11 39		
		e	05 14				43.2 N, 146.5 E, 69 km		
	H: 00 54 40.7						Kurile Islands		
	51.0 N, 177.9 E, 14 km					3	NUR	iPKP	12 27 34.0
	Rat Islands						i	49.0	0.9
2	NUR	eP	04 49 00				KJN	iPKP	12 27 40.9 D
							i	56.0	0.8
2	NUR	i	08 16 44.0				SOD	iPKP	12 27 45.2
		ePP	18 29				e	28 00	
		e	25 32				KEV	ePKP	12 27 52
		eS	26 10				i	28 04.9	
		ePS	28 04				H: 12 08 40		
		ePPS	29 14				57.0 S, 25.6 W, 33 km (R)		
		eSS	34 22				South Sandwich Islands		
	H: 07 59 05.7								
	4.5 S, 105.9 W, 33 km (R)								
	Northern Easter Island								





September				September			
		T	A			T	A
KEV	eP	22	27 45				
	e		28 17				
H: 22 14 49.0							
4.6 N, 74.0 W, 5 km							
Colombia							
5	NUR	ePKP	00 26 56				
		e	27 05				
		e	29 50				
		eSKP	30 22				
KJN	iPKP	00	26 58.0				
	eSKP		30 10				
	ePKS		28				
SOD	ePKP	00	26 53				
	e		27 07				
	eSKP		29 59				
KEV	ePKP	00	26 51				
H: 00 08 05.1							
21.7 S, 176.4 W, 212 km (R)							
Fiji Islands							
5	KJN	eP	00 38 50	1.0		9.8	
		e	40 05				
5	KJN	eP	04 15 01				
5	NUR	iP	08 59 00.6 D	0.8		17.3	
KJN	iP	08	58 35.0 U	0.9		20.5	
	i		45.3				
	ePcP		59 16				
SOD	iP	08	58 15.5 D				
	i		26.0				
H: 08 48 20							
51.8 N, 176.5 E, 59 km							
Rat Islands							
5	NUR	iP	15 44 55.7				
5	NUR	iPKP	18 17 33.6 U	0.8		27.4	
	i		46.0				
KJN	iPKP	18	17 25.8 D	0.8		16.1	
	i		39.0				
SOD	ePKP	18	17 22				
KEV	iPKP	18	17 18.0	0.7		16.8	
H: 17 58 31.0							
15.9 S, 167.4 E, 38 km							
New Hebrides Islands							
5	KJN	eP	18 48 27				
H: 18 37 44							
36.3 N, 138.3 E, 41 km							
Honshu, Japan							
5	NUR	eP	22 26 33				
5	NUR	eP	22 39 08				
	KJN	iP	22 39 45.2				
H: 22 34 14							
38.5 N, 21.9 E, 33 km (R)							
Greece							
6	NUR	iP	08 06 49.0	1.0		20.0	
	KJN	eP	08 06 43				
6	NUR	iP	12 36 58.5 D	0.8		37.4	
	KJN	eP	12 37 35				
H: 12 31 57.9							
36.7 N, 26.6 E, 161 km							
Dodecanese Islands							
6	NUR	eP	12 43 24				
	KJN	iP	12 44 09.5	1.0		12.0	
	SOD	eP	12 44 39				
H: 12 39 08.3							
42.2 N, 18.9 E, 33 km (R)							
Yugoslavia							
6	NUR	eP	14 15 29				
	KJN	eP	14 15 14				
6	NUR	iP	14 49 36.3				
6	NUR	iPKP	17 04 09.0				
	e		21				
KJN	iPKP	17	04 00.0 U				
SOD	iPKP	17	03 54.8 U				
	i		04 04.2				
H: 16 44 20							
37.1 S, 179.5 E, 45 km							
North Island, N.Z.							
6	NUR	eP	17 54 01				
	KJN	eP	17 53 35				
H: 17 43 23							
47.6 N, 155.2 E, 33 km (R)							
Kurile Islands							
6	NUR	eP	19 25 52				
	KJN	iP	19 25 27.0 D	0.7		6.9	
	SOD	eP	19 25 06				
H: 19 15 13							
51.8 N, 175.9 E, 52 km							
Rat Islands							
6	KJN	eP	22 46 27				
H: 22 41 04							
39.4 N, 25.0 E, 33 km (R)							
Aegean Sea							



September						September					
				T	A					T	A
8	NUR	eP	22 06 21			SOD	iP	02 37 01.0			
	KJN	eP	22 05 57			KEV	iP	02 36 48.6			
		iPcP	06 38.0			H:		02 27 47.7			
		e	08 37					46.6 N, 144.1 E, 335 km			
	SOD	eP	22 05 41					Sea of Okhotsk			
	H:		21 55 40.1								
			45.4 N, 150.5 E, 32 km (R)			10	NUR	eP	10 15 01		
			Kurile Islands					i	12.2		
								eS	19 20		
8	NUR	iP	22 42 21.8 U	0.8	23.0	H:		10 09 51			
	KJN	iP	22 41 56.0	0.8	12.3			39.2 N, 41.4 E, 33 km (R)			
	SOD	eP	22 41 35					Turkey			
	H:		22 31 50.9			10	NUR	ePKP	17 50 20		
			52.7 N, 173.4 E, 58 km				KJN	ePKP	17 50 19		
			Near Islands				H:	17 32 03			
8	KJN	iP	23 20 40.2	0.9	13.4			23.3 S, 179.8 E, 550 km (R)			
								South of Fiji Islands			
9	NUR	iP	12 17 19.2 D	0.6	18.3	10	NUR	eP	22 10 30		
	KJN	iP	12 17 16.3 U	0.9	20.5		KJN	eP	22 10 30		
	SOD	iP	12 17 22.5				SOD	eP	22 10 22		
	H:		12 04 30.9				H:	21 58 46.8			
			4.2 S, 102.8 E, 25 km					19.3 N, 67.9 W, 28 km			
			Southern Sumatra					Mona Passage			
9	KJN	eP	15 46 22			11	NUR	eP	01 54 43		
	SOD	eP	15 46 01				H:	01 42 11			
	H:		15 36 57					27.8 N, 111.1 W, 33 km (R)			
			61.4 N, 147.9 W, 58 km					Gulf of California			
			Southern Alaska			11	NUR	ePKP	04 08 10		
9	KJN	iP	18 44 35.4	0.8	12.3		e	30			
	SOD	eP	18 44 13				KJN	ePKP	04 08 17		
	H:		18 33 52.8				i	38.0	1.0	16.4	
			49.2 N, 129.5 W, 33 km (R)				eSKP	11 29			
			Vancouver Island				SOD	ePKP	04 08 21		
9	NUR	eP	18 52 24				H:	03 49 13			
	KJN	iP	18 52 28.4	1.1	27.0			58.9 S, 25.7 W, 33 km			
	H:		18 39 58.2					South Sandwich Islands			
			10.8 N, 69.5 W, 12 km			11	NUR	eP	04 19 37		
			Venezuela								
9	NUR	eP	20 51 01			11	NUR	iP	13 56 36.8 D	1.1	23.3
	KJN	i	20 51 22.9	1.0	16.4		H:	13 46 10			
	H:		20 42 06.3					56.5 N, 158.0 W, 33 km (R)			
			14.7 N, 52.3 E, 28 km					Alaska Peninsula			
			Eastern Gulf of Aden			11	NUR	e(P)	16 05 15		
9	NUR	eP	23 11 17				KJN	eP	16 05 02		
							SOD	iP	16 05 07.1 U		
10	NUR	iP	02 37 37.7 D	0.5	29.7		i	15.1			
	KJN	iP	02 37 13.9 U	0.5	16.9		H:	15 55 20.0			
			cont.					27.0 N, 95.8 E, 37 km			
								Burma-India border			

September				T	A	September				T	A
11	NUR	iP	17 50 36.7 D	1.2	133.9						
		ipP	51 17.0					eSKKS	57 45		
		i	27.0					ePS	12 00 41		
		e	55 46					ePPS	02 37		
		eS	18 01 04					e	05 22		
		esS	02 14					eSS	08 06		
	KJN	iP	17 50 40.1 U					eSSS	12 25		
		i	50.0					eLQ	12 23.0		
		ipP	51 20.0					H: 11 29 40.3			
		e	52 08					23.1 S, 170.6 E, 49 km			
		eS	18 01 13					Loyalty Islands			
	SOD	iP	17 50 34.1 U			12	NUR	iP	16 52 52.3		
		e	43					eS	17 02 38		
		eS	18 01 00					eSS	07 58		
	KEV	iP	17 50 32.7 U	1.0	184.0		KJN	iP	16 52 37.0 U	1.0	26.2
		i	42.0					i	42.0		
		i	51 04.0					e	53 38		
		e	22				SOD	eP	16 52 17		
		eS	18 00 44				KEV	eP	16 52 05	0.9	20.2
		esS	01 50					e	53 05		
	H: 17 38 04.2							eS	17 01 06		
	6.8 N, 72.9 W, 167 km							eSS	05 42		
	Northern Colombia							eLQ	17 10.5		
								H: 16 41 01.7			
12	KJN	eP	01 26 35					39.4 N, 120.1 W, 8 km			
	SOD	eP	01 26 20					Northern California			
12	NUR	iPKP	11 48 57.2	1.0	30.0	13	NUR	ePKP	01 09 52		
		i	49 09.2				KJN	ePKP	01 09 49		
		ePP	51 36				H: 00 50 42.8				
		ePKS	52 28				23.0 S, 170.6 E, 28 km				
		e	54 46				Loyalty Islands				
		eSKS	55 52								
		ePS	12 01 24			13	KJN	eP	03 17 12		
		ePPS	03 10				SOD	eP	03 16 37		
		eSS	09 16								
		eSSS	14 16			13	NUR	eP	20 29 01		
		eLQ	12 26.5					eS	33 10		
		eLR	12 33.0				KJN	eP	20 29 18		
	KJN	iPKP	11 48 50.0 U					i	29.0		
		ePP	51 10				KEV	eS	20 35 08		
		eSKP	52 17				H: 20 23 51				
		e	53 02				38.9 N, 40.6 E, 33 km (R)				
		e	19				Turkey				
	KEV	ePKP	11 48 42			13	KJN	eP	21 37 26	0.7	8.2
		i	46.0				H: 21 26 42.2				
		e	50 30				36.6 N, 138.2 E, 26 km				
		ePP	50				Honshu, Japan				
		eSKP	52 06								
		e	53 50			13	NUR	iP	23 57 57.0	0.9	24.6
		eSKS	55 55				cont.				
	cont.										



September

T A

eSSS 34 30  
e 37 36  
e 39 02  
KJN iPKP 12 11 01.0  
i 16.0  
iSKP 14 26.1  
i 39.0  
KEV iPKP 12 11 14.0  
ePP 13 50  
eSKP 14 36  
ePPP 16 20  
e 17 46  
e 23 00  
ePPS 26 00  
e 28 50  
eSS 31 40  
e 34 22  
eSSS 36 50  
H: 11 51 55.7  
60.3 S, 26.7 W, 33 km (R)  
South Sandwich Islands

15 KJN ePKP 12 19 05  
eSKP 22 27  
i 38.0  
H: 11 59 57  
60.2 S, 26.4 W, 33 km (R)  
South Sandwich Islands

15 NUR iP 17 22 14.2 0.9 40.3  
i 23.1  
i 38.0  
ePPP 26 50  
eS 31 40  
e 56  
eSS 37 09  
eLQ 17 42.5  
KJN iP 17 22 02.3 U 0.8 45.4  
i 40.6  
e 23 13  
SOD iP 17 22 00.7  
e 29  
e 24 10  
KEV iP 17 21 58.7 1.1 61.9  
i 22 03.8  
e 24 00  
ePP 37  
ePPP 26 08  
eS 31 00  
ePS 18  
eSS 35 34  
eSSS 39 00  
eLR 17 45.5  
H: 17 10 46.8  
22.8 N, 121.4 E, 47 km  
Taiwan

September

T A

15 KJN iP 17 36 00.8 1.0 22.9  
SOD eP 17 35 59  
KEV eP 17 35 58  
H: 17 24 45.6  
22.9 N, 121.3 E, 49 km  
Taiwan

16 KJN eP 02 13 13 1.0 15.3  
SOD eP 02 13 07  
H: 02 01 57.1  
22.7 N, 121.2 E, 33 km  
Taiwan

16 NUR iP 02 59 03.0 D 0.8 43.7  
i 05.2  
iPcP 29.8  
e 03 00 02  
KJN iP 02 58 38.7 D 0.8 26.1  
iPcP 59 20.0  
SOD iP 02 58 16.2 D  
iPcP 59 06.4  
e 03 00 14  
KEV iP 02 57 59.3 D  
i 58 02.2  
e 22  
e 59 43  
H: 02 48 21.8  
54.1 N, 163.5 W, 39 km  
Unimak Island

16 KJN eP 17 20 58  
SOD iP 17 20 36.0  
KEV iP 17 20 19.0 0.9 25.2  
i 27.8  
H: 17 10 39.0  
53.8 N, 163.1 W, 34 km  
Unimak Island

17 NUR eP 01 33 29  
KJN eP 01 33 05 0.7 6.9  
SOD iP 01 32 40.9  
i 50.9  
H: 01 23 17  
58.5 N, 152.0 W, 46 km  
Kodiak Island

17 KJN eP 11 27 04  
H: 11 14 08  
3.3 N, 127.1 E, 96 km  
Talaud Islands

17 NUR eP 19 47 58  
KJN eP 19 48 19  
H: 19 42 52  
40.0 N, 41.8 E, 33 km (R)  
Turkey

September

					T	A
17	NUR	iPKP	20 36 56.0		0.9	42.6
	KJN	ePKP	20 36 53		0.9	13.4
	H: 20 17 26.0					
	27.7 S, 176.6 W, 37 km					
	Kermadec Islands					
17	NUR	ePKP	21 14 16		0.8	14.1
	KJN	iPKP	21 24 18.8		0.5	9.6
	SOD	ePKP	21 24 17			
	H: 21 05 26.8					
	20.7 S, 176.3 W, 220 km (R)					
	Fiji Islands					
18	NUR	eP	00 46 19			
	KJN	eP	00 45 58		0.7	17.8
		i	46 05.0			
	SOD	eP	00 45 43			
	H: 00 35 17.8					
	37.5 N, 140.5 E, 65 km (R)					
	Honshu, Japan					
18	NUR	eP	02 11 25			
	KJN	iP	02 11 06.5		0.8	8.5
	SOD	eP	02 10 55			
	H: 01 59 59					
	29.6 N, 132.1 E, 33 km (R)					
	Southeast of Shikoku, Japan					
18	NUR	iP	05 33 09.6 U		0.5	20.6
	KJN	iP	05 32 47.2 U		0.6	19.9
	SOD	iP	05 32 34.9 D			
	KEV	eP	05 32 24			
	H: 05 22 31.2					
	42.3 N, 142.8 E, 73 km					
	Hokkaido, Japan					
18	KJN	eP	12 30 04			
	H: 12 19 38.4					
	22.6 N, 101.9 E, 33 km (R)					
	Burma-China border					
18	NUR	iP	14 26 32.8			
	KJN	eP	14 26 22			
		i	23.8		1.0	27.3
		i	40.3			
		iPcP	27 03.0			
		e	28 32			
	SOD	iP	14 26 28.2			
	KEV	iP	14 26 27.8 D		1.0	30.0
		e	27 21			
	H: 14 15 57.2					
	22.6 N, 102.1 E, 33 km (R)					
	Yunnan, China					

September

					T	A
18	NUR	ePKP	15 33 25		1.0	23.5
	KJN	ePKP	15 33 33			
		e	48			
		eSKP	36 55			
	SOD	ePKP	15 33 33			
		e	39			
	KEV	ePKP	15 33 40			
	H: 15 14 24.9					
	60.4 S, 27.0 W, 33 km (R)					
	South Sandwich Islands					
18	KJN	ePKP	18 17 25			
		iSKP	20 50.3			
	SOD	ePKP	18 17 33			
		eSKP	21 01			
	H: 17 58 20.1					
	60.4 S, 27.1 W, 38 km					
	South Sandwich Islands					
18	KJN	iP	19 55 43.7 U		0.9	14.3
		i	49.8			
	SOD	iP	19 55 42.1 D			
		i	47.7			
		e	56 12			
	KEV	iP	19 55 38.0			
	H: 19 44 30.4					
	23.0 N, 121.2 E, 53 km					
	Taiwan					
18	NUR	iP	20 51 15.0 U		0.8	455.4
		i	38.4			
		i	52 12.6			
		ePP	44			
		i	55 06.4			
		e	56 14			
		eS	57 04			
		iScP	13.4			
		i	59 24.6			
	KJN	iP	20 51 29.3 U			
		i	59.8			
		i	52 08.4			
		iPP	57.3			
		eScP	57 16			
		eS	38			
	SOD	iP	20 51 53.4 U			
		iPP	53 22.7			
		ePPP	54 06			
		e	55 31			
	KEV	iP	20 52 08.7 U		0.9	520.8
		iPP	53 49.8			
		i	55 09.7			
		eS	58 51			
		eSS	21 02 10			
	H: 20 43 53.3					
	27.8 N, 54.3 E, 16 km					
	Southern Iran					



September						September					
			T	A				T	A		
19	NUR	iP	02 08 58.5			20	NUR	eP	20 43 25		
	KJN	iP	02 09 21.6	1.0	28.3		KJN	eP	20 43 01		
	SOD	eP	02 09 50				H:	20 32 42			
	H:	02 03 39					44.7 N, 150.4 E, 45 km (R)				
	38.4 N, 42.7 E, 35 km						Kurile Islands				
	Turkey										
19	NUR	eP	04 34 33	1.0	21.0	20	NUR	eP	23 09 58		
	KJN	eP	04 34 09				KJN	eP	23 09 24		
	SOD	eP	04 33 53				i	26.3	1.0	126.4	
	H:	04 24 05.1					SOD	eP	23 08 42		
	47.6 N, 153.8 E, 80 km (R)						i	46.8			
	Kurile Islands						eS	10 20			
							e	13 35			
19	NUR	iP	05 04 04.0	0.7	8.6		KEV	iP	23 08 23.0		
	KJN	iP	05 03 46.8 U				i	26.0			
	H:	04 53 10.5					eS	09 42			
	30.2 N, 138.4 E, 450 km						H:	23 06 38			
	South of Honshu, Japan						73.2 N, 7.6 E, 33 km (R)				
							Greenland Sea				
19	NUR	eP	05 14 01			20	NUR	iP	23 47 34.4	0.7	11.3
	KJN	iP	05 13 54.0	1.0	25.1		KJN	iP	23 47 26.2 U	1.0	44.7
	i	57.0					i	29.9			
	i	14 15.0					e	48 30			
	SOD	iP	05 13 59.0				SOD	iP	23 47 32.2 U		
	KEV	iP	05 14 04.3	0.9	21.8		i	35.7			
	H:	05 03 46.6					i	44.0			
	23.9 N, 97.6 E, 15 km						e	48 28			
	Burma-China border						KEV	iP	23 47 34.0	0.8	32.3
							H:	23 37 21.8			
19	NUR	ePKP	07 20 19				24.1 N, 97.6 E, 28 km				
	e	30					Burma-China border				
	iSKP	23 09.5				21	KJN	iP	00 29 17.2 D	1.0	66.5
	ePKS	24 03					SOD	eP	00 28 37		
	KJN	iPKP	07 20 22.2 D	0.9	48.2		H:	00 26 29			
	eSKP	23 00					73.3 N, 7.2 E, 33 km (R)				
	ePKS	51					Greenland Sea				
	SOD	iPKP	07 20 18.5			22	NUR	iP	00 14 40.2 D	1.0	21.6
	iSKP	22 49.6					KJN	iP	00 14 14.3 D	1.2	34.4
	H:	07 02 12.8					i	19.0			
	20.7 S, 178.4 W, 580 km (R)						SOD	eP	00 13 56		
	Fiji Islands						H:	00 04 28.0			
19	SOD	eP	19 07 04				52.6 N, 159.5 E, 61 km				
							Kamchatka				
20	NUR	iP	06 24 27.3	0.8	20.7	22	NUR	iP	04 26 29.0	0.6	9.8
	KJN	eP	06 24 00				KJN	iP	04 26 08.0 U	0.9	27.7
	SOD	eP	06 23 42				SOD	iP	04 25 58.1		
	H:	06 13 48					H:	04 15 30.9			
	52.2 N, 173.1 E, 21 km						37.3 N, 138.6 E, 55 km				
	Near Islands						Honshu, Japan				
20	NUR	eP	12 57 26								

September				September			
		T	A			T	A
22	NUR eP	04 58 16					
	KJN eP	04 58 15					
	H:	04 51 12					
		37.3 N, 72.1 E, 135 km					
		Tadzhik SSR					
22	NUR eP	09 49 56					
	SOD eP	09 50 01					
	KEV eP	09 50 04					
22	KJN eP	18 32 17					
	SOD eP	18 32 08					
	H:	18 20 45					
		29.4 N, 142.1 E, 33 km (R)					
		South of Honshu, Japan					
22	NUR eP	22 04 38					
	KJN iP	22 04 26.9 U	1.0	24.0			
	SOD iP	22 04 29.9					
	KEV eP	22 04 30					
	H:	21 54 12.1					
		26.2 N, 104.4 E, 9 km					
		Eastern China					
23	NUR eP	01 40 31					
	eS	49 20					
	eScS	50 22					
	eSS	53 50					
	e	56 46					
	KJN iP	01 40 08.9 D	0.7	10.3			
	SOD eP	01 39 54					
	KEV eP	01 39 42					
	eS	47 56					
	eScS	49 34					
	eSS	51 54					
	e	55 00					
	H:	01 29 47.2					
		44.7 N, 150.3 E, 34 km					
		Kurile Islands					
23	KJN eP	02 16 46					
	SOD eP	02 16 26					
	H:	02 07 02.4					
		52.9 N, 159.7 E, 68 km					
		Kamchatka					
23	NUR iP	18 44 51.3	1.1	46.6			
	KJN iP	18 44 58.9 D					
	i	45 08.9					
	iSKP	48 18.9					
	SOD ePKP	18 45 02					
	eSKP	48 25					
		cont.					
	KEV iP	18 45 07.6					
	H:	18 25 53.0					
		59.5 S, 26.3 W, 33 km (R)					
		South Sandwich Islands					
23	NUR eP	20 46 27					
	H:	20 40 59					
		34.2 N, 27.2 E, 178 km					
		Eastern Mediterranean Sea					
23	NUR eP	23 52 49					
	KJN eP	23 53 25					
	SOD eP	23 53 53					
	H:	23 48 03					
		38.6 N, 22.1 E, 88 km					
		Greece					
24	NUR iP	10 08 09.7 U					
	i	23.8					
	i	10 05.0					
	eS	14 06					
	KJN iP	10 08 24.0 U	1.0	106.8			
	i	36.9					
	i	09 34.8					
	iPP	55.7					
	e	11 42					
	iS	14 31.8					
	i	41.1					
	SOD iP	10 08 48.7 U					
	i	52.1					
	ePP	10 30					
	e	45					
	KEV iP	10 09 03.3 D	1.0	136.0			
	i	07.1					
	i	26.3					
	e	11 18					
	eS	15 47					
	H:	10 00 46.4					
		27.4 N, 54.5 E, 33 km (R)					
		Southern Iran					
24	SOD eP	10 30 10					
	e	23					
24	NUR eP	20 26 10					
	KJN eP	20 26 44					
	SOD eP	20 27 04					
	H:	20 21 20					
		38.1 N, 22.5 E, 102 km					
		Greece					
25	SOD iP	01 33 28.0					
	H:	01 23 34.2					
		24.6 N, 94.8 E, 74 km					
		Burma-India border					

September				T	A	September				T	A	
25	NUR	eP	05 02 10			25	NUR	eP	12 54 52	1.0	23.5	
	KJN	iP	05 01 55.0	0.6	11.0		SOD	eP	12 54 42			
		ipP	02 23.0				KEV	eP	12 54 36			
	SOD	iP	05 01 48.0			25	NUR	eP	20 19 09			
		ipP	02 14.0			25	NUR	iP	20 29 53.4	1.0	31.4	
	KEV	eP	05 01 41				KJN	iP	20 29 27.0 U	1.0	15.3	
		epP	02 08					ePcP	30 18			
		i	14.0				SOD	iP	20 29 08.0			
	H: 04 49 36.9						H: 20 19 43					
	19.2 N, 145.7 E, 133 km						53.0 N, 159.7 E, 48 km					
	Mariana Islands						Kamchatka					
25	NUR	iP	06 15 20.7 U	1.1	109.5	25	NUR	eP	24 00 11	0.9	14.8	
		i	40.7				KJN	iP	23 59 50.8 U	0.9	23.2	
		eSKS	25 48					i	24 00 27.0			
		eS	26 10				SOD	iP	23 59 40.7			
		ePS	27 16				H: 23 49 00.6					
		ePPS	40				35.4 N, 140.5 E, 76 km					
	KJN	iP	06 15 15.0 U	1.2	141.0		Honshu, Japan					
		i	24.0			26	NUR	iPKP	03 55 47.0 D	0.5	11.9	
		i	35.7				KJN	iPKP	03 55 38.8 D	0.5	9.6	
	SOD	iP	06 15 02.0 D					e	47			
		i	08.9				SOD	ePKP	03 55 35			
		e	16 31				KEV	ePKP	03 55 31	1.0	22.0	
	KEV	iP	06 14 56.7 U	1.1	152.3		H: 03 35 57					
		i	15 11.1				40.4 S, 174.8 E, 33 km (R)					
		ePP	18 30				Cook Strait, N.Z.					
		eSKS	25 13			26	NUR	iP	04 34 17.5	0.8	14.1	
		ePS	26 40					i	24.4			
		e	29 12				KJN	iP	04 34 04.7	0.8	29.2	
		eSS	30 32					i	11.2			
	H: 06 02 26.4							i	33.5			
	18.3 N, 100.8 W, 60 km (R)						SOD	iP	04 34 03.5			
	Guerrero, Mexico							i	10.0			
25	NUR	iP	06 21 29.0				e	35				
	KJN	iP	06 21 07.7 U	0.9	23.2		KEV	eP	04 34 01			
	SOD	iP	06 20 56.8					e	06			
	KEV	eP	06 20 46	1.0	16.0		H: 04 22 51.2					
	H: 06 10 35.8						22.3 N, 117.9 E, 19 km					
	39.9 N, 142.9 E, 67 km						Taiwan					
	Honshu, Japan						26	NUR	eP	05 08 18		
25	NUR	eP	08 21 12	1.0	27.4		KEV	eP	05 08 32			
25	NUR	iSKP	09 06 15.5			26	NUR	iP	05 20 31.7	0.9	59.0	
	KJN	eSKP	09 06 06					eScS	30 18			
	H: 08 45 58							e	35 08			
	26.6 S, 179.3 E, 481 km						cont.					
	South of Fiji Islands											

September					September							
				T	A				T	A		
	KJN	iP	05 20	25.4 D	1.1	56.7	27	SOD	eP	19 33 38		
		i		30.5					H:	19 22 46		
		i	21	11.0						14.8 N, 93.7 E, 69 km		
		e	24	20						Andaman Islands		
	SOD	iP	05 20	32.7			28	NUR	eP	00 58 56		
		i		37.2				SOD	eP	00 58 19		
		e	21	21			28	NUR	eP	03 10 59		
	KEV	iP	05 20	36.0 D	1.0	40.0			e	13 20		
		i		43.9			28	KJN	eP	05 13 10		
		e	21	24				SOD	eP	05 12 31		
		eS	28	25			28	NUR	iP	14 10 26.2 D	1.1	72.2
		eSS	32	10					i	43.3		
		H:	05 10	58.1					ePcP	11 14		
			27.5 N, 92.6 E, 67 km						e	12 21		
			India-China border						ePP	40		
26	NUR	eP	19 51	50					ePPP	14 00		
		e		53 16					ePcS	15 07		
	KJN	eP	19 51	26					eS	18 36		
	SOD	iP	19 51	34.5					eScS	20 06		
26	KJN	eP	21 32	29					eSS	22 22		
	SOD	eP	21 32	44					e	25 20		
27	KJN	iP	03 32	49.0				KJN	iP	14 10 13.8 D	1.1	63.5
	SOD	eP	03 32	41					i	24.8		
		H:	03 19	58.2					i	38.6		
			13.9 N, 146.4 E, 65 km						i	11 14.6		
			South of Mariana Islands						eS	18 24		
27	NUR	iP	15 10	41.0	0.8	14.1			e	19 05		
	KJN	iP	15 10	01.4	0.8	47.7		SOD	iP	14 10 16.9		
		i		04.1					i	20.2		
		eS	12	23					i	30.3		
	SOD	eP	15 09	16					iPcP	11 09.2		
		eS	11	04					ePP	12 34		
	KEV	eP	15 08	48				KEV	iP	14 10 17.2 D	1.2	42.8
		i		54.0					i	20.5	1.0	90.0
		eS	10	15					i	52.0		
		H:	15 06	48					e	12 06		
			76.4 N, 9.7 E, 33 km (R)						ePPP	13 40		
			Svalbard						e	15 44		
27	KJN	iP	16 17	36.3	0.7	14.4			eS	18 26		
		eS		20 04					eScS	20 12		
	SOD	eP	16 16	50					eSS	22 12		
		eS		18 33					e	23 55		
		e		19 31					eLQ	14 25.0		
	KEV	e	16 16	28					H:	14 00 22.9		
		eS		17 45						27.4 N, 100.1 E, 33 km (R)		
		e		18 12						Yunnan, China		

September

			T	A
29	KJN ePKP	03 03 06		
	H:	02 44 19.0		
		19.9 S, 176.2 W, 246 km (R)		
		Fiji Islands		
29	SOD iP	11 07 42.7		
29	KJN iP	15 08 05.0	0.6	8.2
	H:	14 54 46		
		8.6 S, 110.5 E, 33 km (R)		
		Java		
29	NUR iP	17 51 55.0	0.8	8.5
	KJN eP	17 52 09		
	SOD eP	17 52 33		
	H:	17 44 34		
		27.9 N, 54.3 E, 25 km		
		Southern Iran		
29	NUR eP	18 35 36		
	KJN eP	18 36 11		

September

				T	A
30	NUR iP	06 06 25.0		0.6	51.2
	i	07 12.0			
	i	19.6			
	KJN iP	06 06 28.0 U		0.9	14.3
	e	07 09			
	e	19			
	SOD iP	06 06 47.2 U			
	e	07 32			
	ePP	58			
	KEV iP	06 06 57.1			
	ePP	08 10			
	i	33.7			
	Moscow:				
	H:	05 59 52			
		39.0 N, 64.4 E			
		Uzbek SSR			

February 13, 1967

Urmas Luosto  
Aili Huovila

October				T	A	October				T	A
1	NUR	eP	07 45 56	1.3	30.7	KEV	iP	07 33 26.0	0.8	16.9	
		ePP	47 23				e	43			
		i	33.4				ePP	35 31			
	KJN	iP	07 45 57.7				ePPP	37 02			
		i	46 08.0				e	40 18			
		iPP	47 18.4				eS	41 18			
		i	25.4				ePS	56			
	SOD	eP	07 46 13				eSS	45 24			
			H: 07 38 29.0					H: 07 23 35.3			
			34.8 N, 71.0 E, 25 km					51.6 N, 174.5 W, 34 km			
			West Pakistan					Andreanof Islands			
1	NUR	eP	10 28 26			2	NUR	iP	11 25 04.8 D	0.8	34.6
	KJN	eP	10 28 19				i	10.6			
	SOD	eP	10 28 22				i	18.6	0.9	119.3	
1	KJN	iP	23 28 05.8 U	0.6	6.9		iS	27 37.0			
	SOD	iP	23 28 05.4				KJN	iP	11 25 49.6 D	0.4	25.9
			H: 23 15 06				i	52.4			
			1.8 N, 125.6 E, 71 km				i	26 04.8	0.4	135.7	
			Molucca Passage				iS	29 04.6			
2	NUR	eP	02 34 47				SOD	iP	11 26 25.1		
	KJN	iP	02 34 26.6	0.7	9.6		i	30.0			
	SOD	iP	02 34 17.9				i	46.6			
	KEV	eP	02 34 09				i	28 34.8			
			H: 02 24 57.1				eS	30 07			
			43.7 N, 125.2 E, 33 km (R)				e	26			
			Northeastern China				KEV	iP	11 26 49.0 U	1.2	61.4
2	NUR	iP	04 41 44.2	0.6	13.8		i	27 06.7			
	KJN	iP	04 41 37.7 U	1.0	21.8		i	13.8	0.8	104.3	
	SOD	iP	04 41 44.7 U				e	28 52			
	KEV	eP	04 41 47				eS	30 56			
			H: 04 31 47.0				e	31 17			
			24.4 N, 94.8 E, 65 km					H: 11 21 44.9			
			Burma-India border					45.7 N, 26.5 E, 140 km (R)			
								Rumania			
2	NUR	iP	07 34 26.4	0.5	10.6	2	NUR	iP	12 18 49.6		
	i		27.8	0.6	23.8		KJN	iP	12 18 25.0 U		
	e		42 54				SOD	eP	12 18 11		
	eS		43 20					H: 12 08 00.6			
	e		38					51.6 N, 174.6 W, 56 km			
	eScS		44 34					Andreanof Islands			
	eSS		47 38			2	NUR	iPKP	20 01 57.7		
	e		51 18				KJN	ePKP	20 01 40		
	eLR		07 55.5				e	50			
	KJN	eP	07 34 02	0.8	13.8		SOD	ePKP	20 01 40		
	i		14.5					H: 19 42 10			
	e		35 42					53.7 S, 140.1 E, 57 km			
	eP'P'		08 03 18					West of Macquarie Island			
	SOD	eP	07 33 41			3	NUR	eP	17 11 22		
	i		57.5				e	12 19			
			cont.					cont.			

October				October							
			T	A		T	A				
KJN	eP	17 11 38			6	NUR	iP	13 58 56.2	0.9	18.5	
	e	12 16					i	59 10.0			
SOD	eP	17 12 02			KJN	iP	13 58 31.2	1.1	20.3		
	e	13 09			SOD	iP	13 58 12.9				
KEV	eP	17 12 22					i	23.7			
H: 17 05 10.4						H: 13 48 33.2					
35.7 N, 53.2 E, 35 km						51.3 N, 159.6 E, 33 km (R)					
Iran						Kamchatka					
4	NUR	eP	12 19 37			6	NUR	eP	14 23 26		
4	KJN	iSKP	23 58 51.2			KJN	eP	14 23 16			
H: 23 37 35							epP	51			
26.1 S, 179.4 E, 486 km						SOD	eP	14 23 16			
South of Fiji Islands						H: 14 10 37.5					
5	NUR	eP	00 44 28			4.8 N, 125.7 E, 159 km					
5	NUR	iP	01 55 20.0	0.8	14.7	6	SOD	eP	18 10 52		
	KJN	eP	01 55 10			6	NUR	iP	20 29 37.6	0.8	8.6
5	NUR	iP	03 29 38.0				SOD	eP	20 29 42		
5	NUR	iPKP	05 44 11.0			7	KJN	eP	03 42 02		
	KJN	iPKP	05 44 04.6			H: 03 29 31					
	KEV	ePKP	05 43 57			9.0 N, 125.7 E, 70 km					
		e	44 25			Mindanao, P.I.					
H: 05 25 41.0						7	NUR	iP	04 41 28.5 D	0.8	15.8
12.3 S, 167.1 E, 245 km							KJN	iP	04 41 19.0 U	0.7	39.7
Santa Cruz Islands							SOD	iP	04 41 17.7 D		
5	KJN	eP	08 30 28					e	42 21		
	SOD	eP	08 29 54			KEV	iP	04 41 15.3 D	0.8	24.5	
5	NUR	iP	08 44 48.1 U	0.9	18.9	H: 04 28 29.7					
	KJN	iP	08 45 11.6 U	1.0	21.8	4.5 N, 126.1 E, 86 km					
		i	19.6			Talaud Islands					
		i	34.3		7	NUR	eP	11 03 57			
	SOD	iP	08 45 32.8 U				SOD	iP	11 03 18.2		
		i	41.0		7	NUR	iPKP	16 13 59.0			
		e	46 12				i	14 09.8	0.9	94.1	
	KEV	iP	08 45 47.9 U				ipPKP	53.7			
		i	46 03.2				ePP	16 38			
H: 08 34 40.6							iSKP	17 23.4			
0.1 N, 30.0 E, 33 km (R)							iPKS	39.8			
Republic of the Congo							esPP	18 06			
6	NUR	eP	07 54 01				i	19 11.0			
		e	46				eSKS	21 04			
	KJN	iP	07 54 25.0	1.0	15.3		iSKKKS	23 19.2			
H: 07 48 49							i	41.8			
39.3 N, 41.9 E, 20 km							eSKSP	26 28			
Turkey							eSPP	28 30			
							e	29 46			
							eSS	34 18			

cont.

October

October

				T	A					T	A		
KJN	iPKP	16 13	55.2			7	KJN	eP	22 50	34			
	i	14	03.7	1.0	77.4		SOD	eP	22 50	09			
	i		13.0				H: 22 41 03						
	ipPKP		46.8				59.2 N, 135.9 W, 36 km						
	esPKP	15 08					Southeastern Alaska						
	e		52			8	NUR	ePKP	00 31	32			
	iPP	16 17	0.0					eSKP		34 54			
	i		25.8					eSS		51 10			
	iSKP	17 11	1.6				KJN	iPKP	00 31	26.5			
	e		54				KEV	ePS	00 43	19			
	ePPP	19 03						ePPS		44 15			
	eSKS	20 55						e		45 15			
	eSKKS	22 20						eSS		49 47			
	eSKKKS		58					eSSS		54 03			
	e	24 11					H: 00 12 18.1						
SOD	iPKP	16 13	55.8				16.4 S, 177.6 W, 33 km (R)						
	i		59.0				Fiji Islands						
	epPKP	14 46				8	NUR	ePKP	02 40	52			
	iSKP	17 03	2.2				KJN	iPKP	02 40	43.9 U	0.8	15.4	
	e		17				SOD	ePKP	02 40	39			
	e		48				H: 02 21 56.4						
KEV	iPKP	16 13	55.8 D	1.3	122.8		19.4 S, 175.4 W, 241 km						
	ipPKP	14	50.0				Tonga Islands						
	i	15	26.0			8	NUR	eSS	03 13	40			
	ePP		54				KJN	ePKP	02 53	20			
	iSKP	16 57	7.7				H: 02 34 16.1						
	e	17 06					16.5 S, 177.5 W, 57 km						
	ePPP	18 37					Fiji Islands						
	epPPP	19 20				8	NUR	iP	03 17	05.9 U	0.8	28.8	
	eSKS	20 41					KJN	iP	03 16	42.0 U	0.8	16.1	
	eSKKKS	22 32						i		47.7			
	e	24 46					SOD	iP	03 16	17.3 U			
	eSP	25 30						i		23.5			
	ePS		50				KEV	eP	03 16	05			
	esPS	27 22					H: 03 06 46.4						
	e	28 05					57.7 N, 151.6 W, 32 km						
	eSS	32 48					Kodiak Island						
H: 15 55 10.8													
21.6 S, 170.5 E, 161 km (R)													
Loyalty Islands													
7	NUR	iP	21 05	44.0 D	1.1	90.4	8	KJN	eP	04 05	08		
	KJN	iP	21 05	19.6 D	1.0	63.2		SOD	eP	04 04	56		
	i		06 38.6				H: 03 52 23.8						
	SOD	iP	21 04	55.0 D			17.6 N, 147.3 E, 30 km						
	e		05 09				Mariana Islands						
	e		49				8	NUR	eS	06 07	02		
	ePcP	06 09						e		47			
KEV	iP	21 04	37.2 U	0.9	53.8		KJN	eP	06 05	14			
	i		54.9					eS		06 24			
H: 20 55 56.0													
61.6 N, 150.1 W, 56 km													
Southern Alaska													

cont.



October						October					
				T	A						
	SOD	eP	06 04 58			9	NUR	ePKP	02 24 42	0.9	10.1
		eS	05 56				KJN	ePKP	02 24 35		
		e	06 24					e	25 28		
	KEV	eS	06 06 10					H:	02 06 35		
		e	39						17.8 S, 178.2 W, 639 km		
									Fiji Islands		
8	NUR	eP	09 59 50			9	NUR	iP	06 57 19.4	1.1	16.7
8	NUR	iP	12 13 20.0	0.7	15.5			eS	07 04 16		
	KJN	eP	12 13 03					eLQ	07 08.0		
		i	29.0				KJN	iP	06 57 46.6 D	1.2	37.8
	SOD	iP	12 12 50.0					i	56.6		
	KEV	eP	12 12 42					i	58 15.8		
								e	59 11		
		H:	12 02 08.9				SOD	eP	06 58 10		
			35.5 N, 140.2 E, 65 km					e	59 01		
			Honshu, Japan				KEV	iP	06 58 28.8	0.8	14.4
8	NUR	ePKP	15 02 20					i	59 15.3		
	KJN	ePKP	15 02 12					e	07 02 17		
		H:	14 43 53.9					eS	06 24		
			15.6 S, 177.8 W, 420 km					eScS	08 16		
			Fiji Islands					eLQ	07 13.5		
8	NUR	eP	16 58 44	1.0	12.0			H:	06 48 40.3		
									12.6 N, 30.8 E, 11 km		
									Sudan		
8	NUR	iP	17 54 47.4 D	0.8	25.9	9	NUR	eP	08 22 47		
		iPcP	55 15.5				KJN	eP	08 22 40		
	KJN	iP	17 54 23.1 D	0.9	31.3		SOD	eP	08 22 20		
		i	37.4					H:	08 10 28.0		
		iPcP	55 00.6						31.3 N, 114.3 W, 33 km (R)		
		i	13.6						Gulf of California		
		eP'P'	18 23 29								
	SOD	iP	17 54 02.6 D			9	NUR	eP	17 17 25		
		iPcP	47.4				SOD	eP	17 16 48		
	KEV	eP	17 53 47			9	KJN	eP	20 07 44		
		e	54 27								
		H:	17 43 56.1			10	KJN	iP	10 55 24.5	0.7	11.6
			51.6 N, 173.8 W, 35 km					H:	10 44 11		
			Andreanof Islands						23.9 N, 122.8 E, 41 km		
8	NUR	iP	19 51 37.8 D	0.8	11.5				Taiwan		
	KJN	eP	19 51 45	1.1	21.6						
		e	52 20								
		H:	19 39 40.5								
			10.8 N, 62.6 W, 90 km								
			Venezuela								
8	NUR	eP	21 08 14			10	NUR	iP	21 27 49.0 U	1.0	30.0
	KJN	eP	21 07 50				KJN	eP	21 27 27		
	SOD	eP	21 07 33				SOD	iP	21 27 02.8 U		
		H:	20 57 33					i	06.7		
			46.4 N, 153.1 E, 33 km (R)				KEV	iP	21 26 46.0 U	0.9	45.9
			Kurile Islands					H:	21 17 34.5		
									57.4 N, 136.2 W, 33 km (R)		
									Southeastern Alaska		

October							October								
				T	A					T	A				
11	KJN	eP	01 32 26												
	H: 01 19 37														
	12.4 N, 141.7 E, 59 km														
	South of Mariana Islands														
11	NUR	iPKP	06 44 55.7 U	1.2	189.8										
		i	45 22.2												
		ePP	46 50												
		ePKS	48 10												
		ePS	56 46												
		eSS	07 03 32												
	KJN	iPKP	06 45 03.7 D	1.0	34.9										
		i	16.5	1.0	53.4										
		i	34.6												
		iPP	47 07.6												
		e	18												
		iSKP	48 28.6												
		iPKS	38.6												
		i	52.7												
	SOD	iPKP	06 45 08.9 U												
		i	18.3												
		ePP	47 20												
		e	48												
		iSKP	48 37.2												
	KEV	iPKP	06 45 11.0 U												
		i	14.2												
		i	24.6												
		iSKP	48 44.0												
		ePKS	53												
		eSKKS	53 32												
		eSKSP	58 05												
		ePPS	07 00 08												
		eSS	05 30												
	H: 06 25 55.1														
	60.3 S, 26.0 W, 37 km (R)														
	South Sandwich Islands														
11	NUR	ePKP	08 18 42	1.2	35.0										
		i	54.0												
	KJN	ePKP	08 18 51												
		e	19 03												
		iSKP	22 14.6												
		ePKS	26												
	SOD	ePKP	08 18 55												
		iSKP	22 23.5												
	H: 07 59 41.8														
	60.4 S, 26.1 W, 35 km (R)														
	South Sandwich Islands														
11	NUR	eP	10 16 30												
	KJN	iP	10 16 19.8 D	0.8	13.1										
		i	27.6												
	SOD	iP	10 16 22.3												
	KEV	eP	10 16 22												
	H: 10 06 19.9														
	28.0 N, 103.8 E, 31 km														
	Szechwan, China														
11	NUR	iP	12 18 23.0	0.7	13.2										
	KJN	iP	12 18 11.7 U	0.5	31.6										
	SOD	iP	12 18 11.3												
	KEV	eP	12 18 08												
	H: 12 06 16														
	13.9 N, 120.5 E, 83 km														
	Mindoro, P.I.														
11	KJN	eP	16 59 07												
	SOD	eP	16 58 40												
		i	53.7												
	H: 16 49 49.0														
	62.7 N, 149.5 W, 85 km														
	Central Alaska														
11	NUR	iPKP	18 09 34.7	0.8	16.2										
	KJN	ePKP	18 09 25												
		e	30												
	H: 17 49 55														
	32.4 S, 178.9 W, 40 km														
	South of Kermadec Islands														
11	NUR	iPKP	21 00 21.2 U	0.8	70.6										
		i	33.0												
	KJN	iPKP	21 00 11.6	1.0	19.6										
		i	28.0												
		i	48.0												
		e	02 23												
		e	03 51												
	SOD	ePKP	21 00 03												
		e	33												
	H: 20 40 39.8														
	32.6 S, 178.7 W, 33 km (R)														
	South of Kermadec Islands														
12	NUR	iP	00 20 35.3												
		i	39.4												
		i	50.2												
		ePP	24 44												
		ePPP	27 14												
		e	29 22												
		eSKS	31 18												
		eS	32 40												
		ePS	33 59												
		ePPS	34 48												
		e	37 50												
		eSS	39 38												
		eLQ	00 51.0												
		eLR	00 57.5												
	KJN	iP	00 20 33.4	1.0	15.3										
		i	44.4												
		e	21 04												
		e	24 05												
	SOD	eP	00 20 34												
		e	46												

cont.



October

October

T A

T A

KEV eP 00 20 36  
 ePP 24 51  
 eSKS 31 14  
 eS 32 14  
 ePS 33 50  
 eSS 39 08  
 eSSS 42 50  
 H: 00 06 37.8  
 11.9 S, 121.8 E, 33 km (R)  
 South of Timor

SOD ePKP 16 08 22  
 e 30  
 H: 15 49 08  
 60.4 S, 26.5 W, 33 km (R)  
 South Sandwich Islands

12 KJN eP 03 28 58  
 SOD iP 03 28 33.4  
 i 37.1  
 KEV eP 03 28 19 0.7 7.9  
 e 29 07  
 H: 03 19 25.4  
 60.5 N, 144.4 W, 33 km  
 Southern Alaska

12 NUR eP 20 33 04  
 SOD eP 20 32 52  
 H: 20 20 06.8  
 11.2 N, 86.2 W, 43 km (R)  
 Nicaragua

12 KJN eP 21 12 19  
 SOD eP 21 12 12  
 H: 21 01 40.2  
 36.4 N, 137.9 E, 77 km  
 Honshu, Japan

12 NUR eP 04 17 50  
 12 NUR iP 04 41 55.6 1.0 149.7  
 i 42 02.4  
 KJN iP 04 41 45.6 1.0 27.3  
 i 54.6  
 e 42 38  
 e 43 09  
 ePKS 45 29  
 SOD iP 04 41 38.3  
 KEV ePKP 04 41 43  
 H: 04 22 14.0  
 31.2 S, 177.8 W, 14 km  
 Kermadec Islands

13 NUR eP 00 50 57 1.0 16.4

13 NUR iP 02 25 53.0 1.3 41.9  
 e 26 20  
 eS 33 52

KJN iP 02 25 29.4 1.2 24.1  
 i 44.5  
 e 26 12

SOD iP 02 25 05.9  
 i 19.4  
 KEV eP 02 24 47  
 eS 32 05  
 eSS 35 48

H: 02 15 45.2  
 59.5 N, 145.2 W, 10 km  
 Gulf of Alaska

12 NUR eP 07 42 31  
 KJN iP 07 42 19.6 U 0.9 30.4  
 i 37.6  
 SOD iP 07 42 18.9  
 KEV eP 07 42 16  
 H: 07 30 38.2  
 17.2 N, 120.2 E, 59 km  
 Luzon, P.I.

13 NUR eP 04 23 56  
 13 NUR eP 12 51 07  
 e 40  
 KJN eP 12 51 07  
 e 41  
 H: 12 42 42.0  
 31.1 N, 80.1 E, 33 km (R)  
 Tibet

12 KJN eP 08 30 15 1.0 10.9  
 SOD iP 08 29 49.6  
 H: 08 20 38  
 60.4 N, 145.0 W, 25 km  
 Southern Alaska

13 NUR eP 18 55 14  
 eS 19 04 11  
 e 06 12  
 eSS 08 50  
 e 11 34  
 KJN eP 18 54 42  
 SOD eP 18 54 25  
 KEV eP 18 54 15  
 eS 19 02 10  
 eScS 05 15  
 e 54  
 eSS 10 10  
 eLR 19 11.4

12 NUR ePKP 16 08 07  
 i 19.0  
 KJN ePKP 16 08 19 1.0 9.8  
 e 29  
 cont.



October						October					
				T	A					T	A
15	NUR	iP	12 19 57.6	0.8	8.6	16	NUR	eP	20 47 27		
	KJN	eP	12 19 33					i	37.0		
	SOD	iP	12 19 10.8								
	KEV	eP	12 18 52			17	NUR	ePKP	04 16 43		
	H:		12 09 24				KJN	ePKP	04 16 37		
			55.5 N, 158.9 W, 33 km (R)				H:		03 57 51.9		
			Alaska Peninsula						11.1 S, 166.7 E, 55 km		
									Santa Cruz Islands		
15	NUR	iP	18 10 50.0 U	0.7	27.1	17	NUR	eP	04 44 42		
	KJN	iP	18 10 28.0 U	0.6	21.9						
		ePcP	11 06			17	NUR	iSKP	07 51 21.2		
	SOD	iP	18 10 15.2 U				KJN	iSKP	07 51 10.8		
		e	33				SOD	iSKP	07 51 02.9		
	KEV	eP	18 10 03				KEV	eSKP	07 50 56		
	H:		18 00 07.3				H:		07 30 07.1		
			41.8 N, 142.9 E, 61 km						23.5 S, 180.0 E, 497 km		
			Hokkaido, Japan						South of Fiji Islands		
15	NUR	eP	19 04 52			17	NUR	eP	08 35 18		
15	NUR	eP	22 19 16				KJN	eP	08 35 19		
16	NUR	iP	02 43 15.3 U				SOD	iP	08 35 34.3		
	KJN	eP	02 43 54			17	NUR	ePKP	10 34 33		
	SOD	eP	02 44 30				ePP	36 08			
	BCIS:						e	38 56			
	H:		02 39 51				ePS	46 12			
			45.7 N, 26.6 E, 170 km				ePPS	47 41			
			Rumania				e	51 32			
16	NUR	iP	09 25 22.4				eSS	52 55			
		eS	35 18				e	54 12			
	KJN	eP	09 25 02				eSSS	57 40			
	SOD	eP	09 24 52			KJN	ePKP	10 34 29			
	H:		09 13 31.0			SOD	ePKP	10 34 37			
			29.6 N, 142.4 E, 56 km			KEV	ePP	10 35 30			
			South of Honshu, Japan				ePPP	37 55			
16	NUR	eS	09 40 48				ePS	45 06			
	KJN	eP	09 34 31	1.3	21.7		eSS	51 28			
	SOD	eP	09 34 50			H:		10 15 40.6			
	H:		09 26 36.5					11.0 S, 166.7 E, 55 km			
			30.0 N, 68.6 E, 33 km (R)					Santa Cruz Islands			
			West Pakistan			17	NUR	iP	13 20 29.0 U	1.0	24.0
16	NUR	iPKP	13 14 15.3 D	0.9	26.9		i	41.2			
	KJN	iPKP	13 14 22.6 U	0.9	32.1		KJN	iP	13 20 05.2	1.2	25.8
		i	28.7				i	17.0			
		i	46.5				SOD	eP	13 19 43		
	SOD	iPKP	13 14 26.8 U				i	55.0			
	KEV	iPKP	13 14 31.2				H:		13 09 40.2		
	H:		12 55 30.8						53.2 N, 163.8 W, 33 km (R)		
			56.1 S, 27.1 W, 101 km						Unimak Island		
			South Sandwich Islands			17	NUR	iP	16 41 26.0 D	0.6	8.8
							KJN	iP	16 41 03.3 D	0.6	8.2
							SOD	iP	16 40 49.7 D		

October

October

T A

T A

17 NUR ePKP 18 38 13  
 i 21.8 0.8 21.6  
 i 25.1  
 iSKP 41 00.1  
 ePKS 56  
 epPKS 44 28  
 KJN ePKP 18 38 08  
 i 14.7 0.7 12.3  
 iSKP 40 48.8  
 ePKS 41 46  
 SOD iPKP 18 38 09.9  
 iSKP 40 40.1  
 e 49  
 KEV ePKP 18 38 06  
 iSKP 40 33.2  
 e 43  
 H: 18 20 07.8  
 22.3 S, 179.1 E, 635 km (R)  
 South of Fiji Islands

ePP 23  
 e 01 37  
 ePPP 02 21  
 ePKKP 11 46  
 e 58  
 KEV eP 21 56 10  
 e 57 25  
 e 58 12  
 e 28  
 ePKP 59 36  
 e 57  
 ePP 22 00 33  
 i 01 26.6  
 ePPP 02 45  
 e 03 34  
 eSKS 07 15  
 ePKKP 11 58  
 e 12 10

H: 21 41 56.3  
 10.7 S, 78.7 W, 38 km  
 Near coast of Peru

17 NUR eP 20 08 44  
 KJN eP 20 08 44  
 17 NUR eP 21 56 05  
 i 16.2  
 i 28.0  
 ePKP 59 31  
 ePP 22 00 03  
 e 21  
 i 01 28.2  
 ePPP 02 55  
 e 04 42  
 eSKS 06 48  
 eSKKS 07 21  
 eS 08 06  
 e 15  
 ePKKP 11 49  
 eSKKP 13 47  
 KJN eP 21 56 07  
 i 17.7  
 e 38  
 ePKP 59 39  
 e 47  
 ePP 22 00 10  
 e 01 42  
 ePPP 02 50  
 ePKKP 11 48  
 e 12 26  
 SOD eP 21 56 04  
 i 20.2  
 e 57 11  
 ePKP 22 00 04  
 cont.

18 KJN ePP 00 05 38  
 SOD ePKP 00 05 18  
 H: 23 46 51.6  
 10.0 S, 79.6 W, 46 km  
 Off coast of Peru

18 KJN eP 02 22 39

18 KJN eP 02 28 34  
 SOD eP 02 28 55

18 NUR ePKP 04 21 31  
 i 36.3  
 eSKP 24 17  
 KJN iPKP 04 21 26.8 0.7 8.2  
 i 28.5  
 eSKP 24 06  
 ePKS 58  
 SOD ePKP 04 21 21  
 eSKP 23 53  
 KEV ePKP 04 21 18  
 H: 04 03 09.0  
 23.2 S, 179.3 E, 520 km  
 South of Fiji Islands

18 KJN iP 18 56 53.1 D 0.9 10.7  
 H: 18 43 34.9  
 3.6 N, 74.2 W, 47 km  
 Colombia

October				October			
		T	A		T	A	
18	NUR	iP	20 44 32.6				
	KJN	eP	20 44 26				
		i	54.2				
	SOD	iP	20 44 33.1				
	H:		20 34 37				
			24.3 N, 94.8 E, 86 km				
			Burma-India border				
18	KJN	ePKP	22 46 29				
	H:		22 27 29.0				
			15.2 S, 174.0 W, 62 km				
			Tonga Islands				
19	NUR	iP	04 04 22.0 U 0.7 50.2				
		i	56.0				
		i	05 11.0				
	KJN	iP	04 04 09.0 U 0.8 81.5				
		i	27.0				
		i	37.6				
	SOD	iP	04 04 16.2 U				
		e	54				
		i	05 07.4				
	KEV	iP	04 04 19.1 U 0.5 48.8				
		e	53				
		e	05 09				
	H:		03 57 57.7				
			49.7 N, 78.0 E, 0 km (R)				
			Eastern Kazakh SSR				
19	NUR	eP	04 28 44				
	KJN	eP	04 28 36				
	SOD	eP	04 28 10				
19	NUR	iP	06 42 33.1 U 0.7 26.4				
	KJN	iP	06 42 17.5 U 0.5 33.1				
	SOD	iP	06 42 10.3 U				
	KEV	iP	06 42 03.1 1.0 40.0				
	H:		06 30 34.9				
			22.5 N, 142.0 E, 250 km (R)				
			Volcano Islands				
19	NUR	iP	08 12 38.7 U 1.3 230.3				
		i	49.1				
		e	56				
		i	13 25.9				
	ePP		15 16				
	e		16 00				
	ePPP		54				
	e		17 48				
	e		20 55				
	e		21 20				
	eS		44				
			cont.				
	eP'P'		41 12				
	e		17				
	e		31				
	eLQ	08	29.0				
	eLR	08	33.1				
	KJN	iP	08 13 00.6 U 1.2 340.6				
		i	59.2				
	iPP		15 43.8				
	ePPP		17 32				
	e		20 25				
	eS		22 27				
	e		40				
	SOD	iP	08 13 11.6				
		i	23.0				
		i	32.1				
	ePP		16 00				
	KEV	iP	08 13 23.0 1.2 151.1				
		i	37.0				
		i	43.9				
	e		14 01				
	e		15 14				
	ePP		16 14				
	ePPP		18 02				
	e		19 10				
	e		22 17				
	eS		23 12				
	e		21				
	eLQ	08	31.5				
	H:		08 01 33.8				
			1.6 S, 15.5 W, 33 km (R)				
			North of Ascension Island				
19	NUR	eP	10 43 44				
19	NUR	iPKP	11 40 49.3 D 0.9 55.0				
		e	41 26				
		ePKP	46				
	KJN	iPKP	11 40 42.6 D 0.8 33.8				
		ePKP	41 20				
	SOD	ePKP	11 40 38				
	KEV	iPKP	11 40 35.0 D				
	H:		11 22 14.7				
			12.6 S, 167.2 E, 218 km (R)				
			Santa Cruz Islands				
19	NUR	eP	19 36 02 0.8 14.7				
		e	37 06				
	KJN	eP	19 35 30				
		e	37 14				
	SOD	iP	19 35 18.5				
		e	36 22				
	H:		19 25 39				
			51.2 N, 159.2 E, 33 km (R)				
			Kamchatka				

October						October					
				T	A					T	A
19	NUR	iP	19 46	47.4							
		i		48.7							
	KJN	eP	19 46	22	1.0	15.3					
	SOD	iP	19 46	03.8							
		i		05.2							
	H: 19 36 25										
	51.2 N, 159.1 E, 34 km										
	Kamchatka										
19	NUR	iP	20 46	02.6	0.6	9.0					
	KJN	eP	20 45	38							
	SOD	iP	20 45	19.5							
	H: 20 35 40										
	51.2 N, 159.1 E, 33 km (R)										
	Kamchatka										
19	NUR	eP	21 44	43							
19	NUR	eP	23 11	20							
	SOD	eP	23 10	38							
20	NUR	iP	01 01	44.3 U	0.6	9.0					
		i		52.7							
		ePP	03	29							
		eS	08	12							
		eSS	11	27							
	KJN	iP	01 01	41.4 U	0.9	13.4					
		ePP	03	24							
	SOD	eP	01 01	55							
	KEV	eP	01 02	05	0.9	20.2					
		e		47							
		ePP	03	52							
		eS	08	45							
		eSS	12	10							
	H: 00 53 38.7										
	33.6 N, 78.5 E, 27 km										
	Kashmir-Tibet border										
20	NUR	iPKP	13 54	40.2 U	0.7	37.0					
	KJN	iPKP	13 54	32.9 U	0.8	26.1					
	SOD	iPKP	13 54	28.3 U							
	KEV	iPKP	13 54	25.0 U	0.7	14.2					
	H: 13 35 50.5										
	15.5 S, 167.7 E, 139 km (R)										
	New Hebrides Islands										
20	NUR	iP	14 28	49.6	0.8	16.2					
	SOD	eP	14 28	37							
20	NUR	eP	14 42	41							
20	NUR	eP	21 40	37							
21	NUR	eP	02 07	38							
	KJN	iP	02 07	22.6	0.8	12.3					
	SOD	iP	02 07	18.4							
	KEV	eP	02 07	10							
	H: 01 56 23										
	26.6 N, 125.2 E, 111 km										
	Northeast of Taiwan										
21	NUR	eP	16 21	42							
	KJN	eP	16 22	24	0.9	8.0					
		e		32							
	H: 16 17 02										
	39.6 N, 22.1 E, 33 km (R)										
	Greece										
21	NUR	eP	18 11	51							
	SOD	iP	18 11	50.0							
22	NUR	iP	03 13	26.2							
	KJN	iP	03 13	20.2							
		i		45.5							
		i		54.6							
		e		14 19							
	SOD	iP	03 13	27.7							
		i		33.3							
		i		52.3							
		e		14 03							
	KEV	iP	03 13	30.7	0.7	19.4					
		i		54.5							
		e		14 10							
	H: 03 03 23.5										
	23.1 N, 94.4 E, 68 km										
	Burma-India border										
22	NUR	eP	05 42	42							
	SOD	eP	05 43	56							
	H: 05 38 22.1										
	41.9 N, 23.2 E, 7 km										
	Greece-Bulgaria border										
22	NUR	iP	12 57	17.8	1.2	64.2					
		i		28.0							
		i		34.0							
	KJN	iP	12 56	52.2 U	1.4	56.7					
		i		57 05.6							
		e		33							
	SOD	iP	12 56	32.4							
		e		38							
		e		58 24							
	KEV	e(P)	12 56	26							
		i		44.9							
		e		57 10							
	H: 12 47 18.2										
	55.2 N, 162.0 E, 59 km (R)										
	Kamchatka										





October				T	A	October				T	A
24	KJN	eP	21 33 56			26	NUR	eP	19 36 53		
		eS	36 28					e	37 32		
		e	37 23				KJN	eP	19 37 36		
	SOD	eP	21 33 11				H:	19 31 27.5			
		eS	35 06					35.1 N, 27.0 E, 36 km			
	KEV	eP	21 32 43					Dodecanese Islands			
		eS	34 13								
25	SOD	eP	03 35 19			26	NUR	eP	20 21 47		
							KJN	iP	20 21 38.2 U	0.8	16.9
25	NUR	iP	10 14 53.7	1.0	34.0		SOD	iP	20 21 37.7		
		ePP	16 30				KEV	eP	20 21 36		
	KJN	iP	10 14 58.2	1.1	29.7		H:	20 09 36.0			
		ePP	16 40					13.5 N, 121.0 E, 51 km			
	SOD	iP	10 15 15.7					Mindoro, P.I.			
		ePP	16 49			26	NUR	eP	23 57 01	0.5	6.5
		e	17 52				KJN	iP	23 56 50.5	0.9	13.4
	KEV	eP	10 15 29								
	H:	10 06 58.1				27	NUR	eP	02 40 43		
		29.9 N, 68.9 E, 6 km					KJN	iP	02 40 28.8 D	1.0	12.0
		West Pakistan					SOD	iP	02 40 20.8 D		
25	NUR	iP	18 15 14.8 U	0.9	52.1		i	23.2			
	KJN	iP	18 14 55.0 U	0.9	83.9		KEV	iP	02 40 16.9 D	0.7	23.2
	SOD	iP	18 14 44.8 U				H:	02 27 40.7			
	H:	18 04 11.8						14.1 N, 145.3 E, 125 km			
		36.8 N, 138.2 E, 28 km						Mariana Islands			
		Honshu, Japan				27	NUR	iP	06 01 54.3 U		
25	SOD	eP	19 18 51				e	02 24			
							eS	04 51			
25	NUR	iPKP	23 34 43.6	0.8	17.3		e	05 10			
	KJN	iPKP	23 34 36.6 D	1.0	15.3		e	28 25			
	H:	23 16 00.2					e	37 02	1.0	21.6	
		14.6 S, 167.4 E, 179 km					e	18			
		New Hebrides Islands					KJN	iP	06 01 05.5 U		
25	SOD	eP	23 43 34				e	28 11			
							e	37 05			
26	NUR	eP	18 44 41				i	19.6			
		ePKP	48 01	0.9	42.0		SOD	iP	06 00 35.4 U		
		i	02.2				e	37 13			
		iPKS	51 24.4				e	25			
		e	36				KEV	iP	06 00 14.5 U		
	KJN	eP	18 44 47				e	45			
		iPKP	47 54.6 D	1.0	38.2		e	01 16			
		e	48 14				eS	54			
	SOD	ePKP	18 47 50				e	37 10			
	KEV	iPKP	18 47 48.0 D	1.0	44.0		H:	05 57 58.0			
	H:	18 28 54.1						73.4 N, 54.8 E, 0 km (R)			
		18.4 S, 167.6 E, 36 km						Novaya Zemlya			
		New Hebrides Islands				27	NUR	eP	09 30 45		
							e	31 28			

cont.



October

October

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28 NUR ePKP 22 31 01  
 ePKS 34 28  
 KJN ePKP 22 30 55  
 e 31 07  
 eSKP 34 16  
 SOD ePKP 22 30 52  
 KEV ePKP 22 30 46  
 ePP 32 36  
 eSS 49 34  
 H: 22 11 47.6  
 20.1 S, 168.8 E, 19 km  
 Loyalty Islands

ePcP 48 46  
 eS 50 47  
 e 53  
 e 51 50  
 eSS 52 16  
 H: 02 39 29.4  
 39.2 N, 21.2 E, 20 km  
 Greece

28 NUR ePKP 23 43 33  
 H: 23 24 14.5  
 22.5 S, 170.9 E, 25 km  
 Loyalty Islands

29 NUR eP 05 58 43  
 KJN eP 05 58 20  
 SOD eP 05 58 07  
 Moscow:  
 H: 05 47 49  
 41.1 N, 144.4 E  
 Kurile Islands

29 NUR iP 00 56 03.7 D 0.7 18.5  
 KJN iP 00 55 38.5 D 1.0 15.3  
 SOD iP 00 55 20.3 D  
 KEV eP 00 55 05  
 H: 00 45 40  
 51.1 N, 159.1 E, 33 km  
 Kamchatka

29 NUR eP 06 41 11  
 KJN iP 06 40 48.8 U 0.9 11.6  
 SOD eP 06 40 36  
 KEV eP 06 40 25  
 H: 06 30 22  
 41.8 N, 144.0 E, 32 km (R)  
 Hokkaido, Japan

29 NUR iP 02 44 17.8 D 1.2 59.8  
 i 21.3 1.0 191.0  
 eS 48 12  
 iPcP 15.0  
 i 20.2  
 e 50 46  
 iScP 51 54.8  
 iScS 55 36.2  
 eLQ 02 50.0  
 eLR 02 51.5  
 KJN iP 02 44 55.4 U 1.1 249.8  
 i 45 36.0  
 iS 49 20.0  
 e 43  
 e 50 07  
 iScP 52 04.5  
 iScS 55 51.3  
 SOD iP 02 45 24.2 D  
 iPP 46 10.9  
 e 47 41  
 eS 50 12  
 e 51 45  
 eScP 52 12  
 KEV iP 02 45 45.6 1.1 104.7  
 i 55.0  
 iPP 46 42.9  
 e 47 31  
 cont.

29 NUR iP 09 07 34.0 1.2 40.8  
 i 46.8  
 i 53.0  
 ePP 09 12  
 KJN eP 09 07 41  
 i 55.0  
 ePP 09 24  
 SOD iP 09 08 00.7  
 i 13.8  
 ePP 09 35  
 KEV iP 09 08 11.8 0.9 30.2  
 e 31  
 Moscow:  
 H: 08 59 36  
 27.5 N, 65.6 E  
 Pakistan  
 29 NUR eP 12 18 33 0.7 23.4  
 KJN eP 12 19 05  
 e 20 16  
 SOD eP 12 19 34  
 KEV iP 12 19 55.1  
 H: 12 13 06.0  
 34.8 N, 27.8 E, 59 km  
 Mediterranean Sea

October							October							
					T	A					T	A		
29	NUR	iP	14 43	29.4 U	1.0	36.3	30	NUR	iP	17 44	38.8			
		i		39.0					i	45 00	07			
		i	44	26.3					eS	48 35				
		ePP	45 54						i	49 42	2			
	KJN	iP	14 43	06.7 U	1.2	89.4		KJN	iP	17 44	58.4			
		i		16.5					e	47 10				
		ePP	45 25						eS	49 12				
	SOD	iP	14 42	54.4 D					e		24			
		i	43	04.2				SOD	eP	17 45	30			
		e		55					i		40.9			
	KEV	iP	14 42	43.1 D	0.9	37.0			e(S)	50 16				
		e	43	10				KEV	e	17 46	01			
	H:		14 32	41.2					e		33			
			41.8 N,	144.1 E,		41 km		H:		17 39	48			
			Hokkaido, Japan								42.6 N,	45.9 E,	33 km (R)	
			Eastern Caucasus											
29	NUR	iP	14 54	01.6 D			30	NUR	iP	19 15	27.5	0.9	9.2	
	KJN	iP	14 54	02.4 D	0.7	21.9		KJN	iP	19 15	07.5 U	0.8	15.4	
		i		04.8				SOD	iP	19 14	57.6 D			
		e	55 11					H:		19 04	18			
	SOD	iP	14 54	18.4						35.7 N,	140.4 E,	76 km		
	KEV	eP	14 54	27						Honshu, Japan				
	H:		14 46	57				30	NUR	iPKP	22 42	02.2	0.7	20.1
			36.7 N,	69.8 E,		73 km			KJN	ePKP	22 41	51		
			Hindu Kush						SOD	ePKP	22 41	45		
29	NUR	eP	17 55	53				H:		22 22	46.3			
	KJN	eP	17 56	30						31.3 S,	179.3 W,	213 km		
	H:		17 51	02						Kermadec Islands				
			38.9 N,	20.8 E,		33 km (R)		30	KJN	eP	23 56	33		
			Greece						SOD	eP	23 56	16		
30	NUR	eP	02 15	04										
		i		09.0	0.8	20.3								
		eScP	22 41											
	KJN	eP	02 15	43										
		i		46.0										
	SOD	eP	02 16	11										
	KEV	eP	02 16	33										
	H:		02 10	15										
			39.0 N,	21.8 E,		33 km (R)								
			Greece											
30	NUR	iP	05 16	07.2 U	1.0	18.7								
		e		19 46										
	KJN	eP	05 16	29										
	SOD	eP	05 16	50										
	H:		05 05	31.5										
			3.5 S,	30.0 E,		6 km								
			Lake Tanganyika											

February 17, 1967

Urmas Luosto  
Aili Huovila



21 MAR 1967

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Helsinki, Finland  
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November

					T	A
1	NUR	iP	07 11 29.0	U	1.0	168.3
	KJN	iP	07 11 06.6	U	0.6	161.0
		i	13.1			
	SOD	iP	07 10 53.7	U		
	KEV	iP	07 10 42.2			
		e	11 12			
	H: 07 01 00.4					
	43.2 N, 143.4 E, 127 km					
	Hokkaido, Japan					
1	NUR	eP	22 27 45			
	H: 22 22 27					
	35.1 N, 23.8 E, 70 km					
	Crete					
2	NUR	iP	01 06 19.0			
	KJN	eP	01 06 11			
2	NUR	iP	12 02 02.0		0.8	25.4
	KJN	iP	12 01 44.5	U	0.7	27.4
	SOD	iP	12 01 36.2	U		
	KEV	iP	12 01 28.2	U		
	H: 11 50 57					
	28.8 N, 139.3 E, 421 km					
	Bonin Islands					
2	NUR	eP	17 36 30			
	KJN	eP	17 36 08			
	H: 17 25 48					
	43.1 N, 145.5 E, 63 km					
	Hokkaido, Japan					
2	NUR	eP	21 43 16			
3	NUR	iPKP	03 48 04.0	U	0.5	25.8
	KJN	iPKP	03 47 56.8	U	0.7	21.9
	SOD	iPKP	03 47 52.3	U		
	KEV	ePKP	03 47 50			
	H: 03 29 16.3					
	15.1 S, 167.4 E, 153 km					
	New Hebrides Islands					
3	KJN	iP	11 49 04.5		1.0	16.4
	SOD	eP	11 48 57			
	H: 11 37 22.7					
	19.1 N, 67.9 W, 47 km					
	Mona Passage					
3	NUR	eP	14 55 11			
3	NUR	iP	16 36 11.4	D	0.9	65.6
		e	32			
		e	43			
		e	37 20			
	cont.					

November

					T	A
		eS	45 46			
		eScS	46 20			
		e	49 06			
		eSS	50 27			
		e	52 36			
		eLR	16 59.0			
	KJN	iP	16 36 14.5	D	0.9	84.8
		i	25.9			
		eScP	40 23			
	SOD	iP	16 36 07.6	D		
		i	27.5			
	KEV	iP	16 36 05.3	D	0.9	28.6
		i	15.8			
		e	38 27			
		e	41 56			
		eS	45 38			
		eScS	46 10			
		eSS	50 27			
		e	54 50			
	H: 16 24 31.0					
	19.2 N, 67.9 W, 22 km					
	Mona Passage					
3	KJN	eP	21 24 25		0.5	11.0
		e	25 20			
	SOD	eP	21 24 30			
	H: 21 11 14					
	7.6 S, 107.9 E, 15 km					
	Java					
4	NUR	eP	07 32 59			
	H: 07 21 30.8					
	28.4 N, 130.4 E, 33 km (R)					
	Ryukyu Islands					
4	NUR	eP	09 08 16			
	KJN	eP	09 08 09			
	SOD	eP	09 08 20			
	H: 09 00 54					
	39.9 N, 78.0 E, 33 km (R)					
	Southern Sinkiang, China					
4	NUR	ePKP	16 01 25			
		eSKP	04 14			
	KJN	ePKP	16 01 15			
		i	25.8			
		eSKP	04 04			
	SOD	ePKP	16 00 58			
		e	01 20			
	H: 15 43 09.0					
	25.9 S, 178.3 E, 620 km (R)					
	South of Fiji Islands					

November				T	A	November				T	A
5	NUR	ePS	02 42 08			6	NUR	iP	18 56 01.5		
		eSS	48 30				KJN	iP	18 56 43.1	0.9	17.9
		eSSS	52 40				SOD	eP	18 57 12		
	KEV	eSS	02 49 48				H:	18 51 44.1			
	H:	02 13 51.2					42.1 N, 19.0 E, 34 km				
		41.8 S, 80.1 E, 33 km (R)					Yugoslavia				
		Mid-Indian Rise									
5	NUR	eP	05 02 31			7	NUR	eP	00 52 42		
	SOD	eP	05 02 16				KJN	iP	00 52 31.2		
							SOD	eP	00 52 33		
							H:	00 43 00			
5	NUR	ePP	13 07 10				32.9 N, 104.0 E, 33 km (R)				
		ePKS	56				Szechwan, China				
		e	10 06								
		eSKSP	16 48			7	NUR	eP	04 16 23		
		e	18 22				KJN	eP	04 16 20		
		eSS	24 30				SOD	eP	04 16 34		
		eSSS	29 04				H:	04 08 12			
		eLQ	13 39.5				33.8 N, 80.7 E, 33 km (R)				
		eLR	13 43.0				Tibet				
	KJN	ePKP	13 04 22			7	NUR	eP	09 08 37		
	SOD	ePKP	13 04 21				i	56.1			
	KEV	ePS	13 15 46				KJN	iP	09 08 28.0 U	0.9	18.8
		e	19 24				epP	50			
		eSS	22 40				SOD	eP	09 08 24		
		e	25 42				e	43			
	H:	12 45 13.9					H:	08 55 50.5			
		15.3 S, 175.2 W, 38 km					7.1 N, 125.4 E, 83 km				
		Tonga Islands					Mindanao, P.I.				
5	NUR	iP	19 02 02.7 D	0.9	24.6	7	NUR	eP	12 55 39		
	KJN	iP	19 02 00.0 D								
	SOD	iP	19 02 09.5 D			7	NUR	iP	15 22 55.0	1.0	24.0
	KEV	iP	19 02 14.7	0.9	28.6						
	H:	18 53 04									
		28.3 N, 84.0 E, 33 km (R)									
		Nepal									
6	KJN	eP	01 36 07			7	NUR	eP	22 05 02		
	SOD	eP	01 36 18				KJN	eP	22 04 46		
	KEV	iP	01 36 25.3	1.0	20.0		SOD	iP	22 04 09.3		
	H:	01 28 53.7					KEV	eP	22 03 37		
		39.9 N, 78.1 E, 49 km									
		Southern Sinkiang, China				8	NUR	eP	01 19 36		
6	NUR	iP	08 34 50.0	1.0	29.4		KJN	eP	01 19 34		
	KJN	iP	08 34 50.0	1.0	15.3		SOD	eP	01 20 11		
	SOD	eP	08 34 37				e	52			
	KEV	eP	08 34 38			8	NUR	eP	03 20 16		
	H:	08 29 14					e	21 07			
		59.8 N, 30.0 W, 33 km (R)					KJN	iP	03 20 31.0 D	1.0	18.5
		North Atlantic Ocean					e	21 16			

cont.



November

November

				T	A					T	A
	SOD	iP	03 20 56.4			9	NUR	eP	14 20 34		
		e	21 41				KJN	iP	14 20 09.0 U	0.7	6.9
	KEV	eP	03 21 10					ePcP	46		
		e	22 31				H:	14 09 44.4			
	H:	03 14 10.1						51.9 N, 173.7 W,	47 km		
		36.1 N, 50.9 E,	23 km					Andreanof Islands			
		Iran				9	NUR	eP	15 13 51		
8	NUR	iP	11 46 31.4 U	0.9	13.8	9	NUR	eP	15 17 14		
		e	40				KJN	eP	15 17 52		
	KJN	eP	11 46 13				H:	15 12 27			
	SOD	eP	11 45 44					39.2 N, 20.6 E,	30 km		
	H:	11 35 57.0						Greece-Albania border			
		52.4 N, 173.0 E,	41 km			9	NUR	e(S)	17 07 50		
		Near Islands					KJN	e(S)	17 08 19		
8	KJN	eP	14 39 52			10	NUR	iPKP	03 21 07.7 U	0.9	32.7
	SOD	eP	14 39 57					ipPKP	38.6		
	H:	14 30 03					KJN	iPKP	03 21 12.0	0.9	26.8
		25.9 N, 96.6 E,	42 km					ipPKP	43.6		
		Burma						e	22 07		
8	NUR	iP	15 49 19.0 D	0.7	13.5			ePKKP	31 47		
	KJN	iP	15 49 16.6 D	0.8	16.9		SOD	iPKP	03 21 12.0 U		
	SOD	iP	15 49 22.8 D					ipPKP	43.3		
	H:	15 36 30					KEV	ePKP	03 21 12		
		4.8 S, 101.9 E,	33 km (R)					epPKP	45		
		Southern Sumatra					H:	03 02 32.5			
								31.9 S, 68.4 W,	113 km (R)		
								San Juan, Argentina			
9	NUR	eP	01 26 01			11	SOD	eP	09 01 51		
	KJN	iP	01 25 50.2	0.7	20.6	11	NUR	iP	15 41 54.6 U	1.0	100.0
9	NUR	eP	01 44 28					i	42 06.0		
		i	34.4	0.7	25.7			eS	50 56		
	KJN	iP	01 44 42.8					eSS	55 34		
		e	45 09				KJN	iP	15 41 30.3 U	1.1	75.6
	SOD	eP	01 45 16					i	41.5		
		e	38					i	42 18.5		
9	NUR	iP	11 37 46.7				SOD	eP	15 41 06		
		i	55.0					i	08.9		
		i	39 27.0					i	20.2		
	KJN	iP	11 37 30.5 U	1.4	89.1		KEV	iP	15 40 50.7	1.2	79.8
	SOD	iP	11 37 27.0 U					i	41 14.0		
	KEV	iP	11 37 19.8 U	1.0	28.7			ePP	42 56		
	H:	11 26 24.7						eS	48 50		
		26.9 N, 125.5 E,	39 km					eSS	52 50		
		Northeast of Taiwan					H:	15 31 04.2			
								52.3 N, 169.1 W,	38 km		
								Fox Islands			



November						November					
				T	A					T	A
11	NUR	iP	16 13 48.2	D	0.7	28.4					
		iPcP	14 26.7								
	KJN	iP	16 13 23.0	D	0.8	16.1					
		ePcP	14 11								
	SOD	eP	16 13 04								
	H: 16 03 38										
	50.3 N, 155.5 E, 145 km										
	Kurile Islands										
11	NUR	eP	16 19 53								
	SOD	eP	16 21 04								
		e	14								
	H: 16 16 13.7										
	45.6 N, 15.8 E, 19 km										
	Yugoslavia										
11	NUR	eP	18 46 01								
	H: 18 35 13										
	52.7 N, 169.4 W, 41 km										
	Fox Islands										
11	NUR	eP	19 03 40								
		e	45								
11	NUR	eP	19 29 06								
11	NUR	eP	22 17 47								
12	NUR	eP	08 36 41								
		i	47.8	0.8	20.2						
	SOD	eP	08 37 18								
	H: 08 28 23										
	23.4 N, 61.6 E, 33 km (R)										
	West Pakistan										
12	NUR	iP	12 12 52.0		1.0	18.0					
	KJN	iP	12 12 33.5		0.9	19.6					
	SOD	eP	12 12 27								
	KEV	iP	12 12 25.0		1.1	35.7					
	Moscow:										
	H: 12 01 49										
	33.4 N, 129.8 E										
	Japan										
12	NUR	iP	13 00 32.0	U	1.0	205.8					
		i	42.0								
		i	02 46.4								
		ePPP	04 38								
		eScP	05 14								
		eS	09 18								
	cont.										
		e	22								
		eScS	10 38								
		eSS	13 44								
		eLR	13 22.0								
	KJN	iP	13 00 10.4	U	1.0	261.6					
		i	19.5								
		i	01 10.2								
		eS	08 43								
		e	56								
	SOD	iP	12 59 57.2	U							
		i	13 00 07.8								
		ePP	02 18								
	KEV	iP	12 59 46.9	U	1.1	154.7					
		i	13 00 06.4								
		e	36								
		ePPP	03 22								
		eS	07 54								
		eSS	12 00								
	H: 12 49 43.6										
	41.8 N, 144.1 E, 33 km (R)										
	Hokkaido, Japan										
12	NUR	ePKP	16 14 36								
	H: 15 56 04.7										
	4.8 S, 134.2 E, 33 km (R)										
	West New Guinea										
12	NUR	eP	17 26 43								
	SOD	eP	17 26 10								
	H: 17 15 53										
	41.5 N, 144.3 E, 33 km (R)										
	Hokkaido, Japan										
12	NUR	iP	17 44 37.0		0.5	10.3					
	KJN	iP	17 44 13.5	U	0.8	10.0					
	SOD	eP	17 43 58								
	H: 17 33 52										
	45.1 N, 151.7 E, 33 km (R)										
	Kurile Islands										
12	NUR	ePKP	19 04 03		1.5	205.2					
		i	04.0								
		i	27.0								
		ePP	06 06								
		e	07 12								
		e	22								
		iSKP	28.0								
		e	08 26								
		e	09 14								
		e	10 43								
		eSKS	11 11								
	cont.										

November

November

		T	A			T	A
	e	12	54				
	ePKKP	13	37				
	ePS	15	58				
	eSKKP	17	15				
	ePPS		48				
	e	20	44				
	eSS	23	08				
	eSSS	28	10				
KJN	iPKP	19	03 58.3 U	0.9	125.0		
	i		04 05.4				
	i		30.5				
	ePP	06	01				
	eSKP	07	27				
	e		54				
	eSKS	11	02				
	e		23				
	iPKKP	13	43.0				
	e	14	04				
	eSKKP	17	29				
SOD	iPKP	19	03 53.2				
	i		56.2				
	i	04	15.7				
	e	09	24				
	ePKKP	13	49				
KEV	ePKP	19	03 50				
	i		52.6	0.7	95.5		
	i	04	07.0				
	ePP	05	18				
	e	08	05				
	eSKS	10	50				
	e	12	16				
	ePS	15	07				
	ePPS	16	24				
	eSS	21	17				
	eSSS	26	22				
	H: 18 45 01.0						
	15.6 S, 167.3 E, 40 km						
	New Hebrides Islands						
12	KJN	eP	23 15 30				
	SOD	eP	23 15 13				
	KEV	eP	23 15 03				
	H: 23 04 58.8						
	41.7 N, 144.2 E, 33 km (R)						
	Hokkaido, Japan						
13	NUR	iP	03 03 19.0 D	1.0	58.8		
	KJN	iP	03 03 25.5 U	1.1	122.9		
	i		44.5				
	SOD	iP	03 03 19.7 D				
	i		22.8				
	e		40				
	cont.						
	KEV	iP	03 03 20.0 D				
	H: 02 51 50.6						
	17.1 N, 61.9 W, 65 km (R)						
	Leeward Islands						
13	NUR	iP	03 07 17.0				
	KJN	eP	03 06 57				
	SOD	iP	03 06 42.0				
	KEV	eP	03 06 32				
	H: 02 56 30.2						
	41.4 N, 144.3 E, 63 km						
	Hokkaido, Japan						
13	NUR	eP	21 20 27				
	H: 21 10 04						
	53.7 N, 169.3 E, 33 km (R)						
	Komandorsky Islands						
14	NUR	eP	03 20 25				
	KJN	iP	03 20 22.5	0.9	12.5		
	SOD	iP	03 20 29.0				
	H: 03 08 31.3						
	2.0 N, 99.1 E, 181 km						
	Northern Sumatra						
15	NUR	iP	00 18 55.0 D	0.7	24.5		
	e		19 52				
	KJN	iP	00 18 30.3 U	0.9	22.3		
	SOD	iP	00 18 09.1 U				
	e		19 55				
	KEV	eP	00 17 55	0.8	14.4		
	e		18 16				
	H: 00 08 07						
	51.4 N, 179.9 W, 43 km						
	Andreanof Islands						
15	NUR	iP	16 29 58.0				
		iPcP	30 26.2				
	KJN	iP	16 29 33.7 U	0.8	13.8		
	SOD	eP	16 29 13				
	e		25				
	e		52				
	H: 16 19 07.4						
	51.2 N, 176.6 W, 48 km (R)						
	Andreanof Islands						
16	NUR	eP	02 11 29				
	KJN	eP	02 11 09				
	SOD	eP	02 10 46				
	KEV	eP	02 10 32				
	H: 02 00 35.9						
	51.3 N, 170.4 W, 33 km (R)						
	Fox Islands						

November								November											
				T					A					T					A
16	NUR	iP	20 54	42.0 U	0.8	13.0		18	NUR	iP	18 52	06.1	1.2	92.1					
	KJN	iP	20 54	17.5 U	1.0	21.8			i		22.8								
		e		27					e		54 37								
	SOD	iP	20 54	02.4					eS		55								
	H:		20 44	01.3					e		59 08								
			46.6 N, 153.7 E, 33 km (R)							eLR	18	55.5							
			Kurile Islands						KJN	iP	18	51 34.8							
16	NUR	iPKP	23 14	54.8 U	1.0	66.0			i		54.5								
	KJN	iPKP	23 14	44.5	0.7	11.0			eS		53 32								
	H:		22 55	10.9					i		43.4								
			33.5 S, 179.5 W, 33 km (R)							e		58 27							
			South of Kermadec Islands						SOD	eP	18	50 53							
16	NUR	iP	23 26	57.7 D	0.7	40.0			eS		52 25								
		iPcP		27 27.0					e		56 54								
	KJN	iP	23 26	33.9 U	0.7	27.4			KEV	eP	18	50 33							
		iPcP		27 11.5					e		51 05								
	SOD	iP	23 26	11.7 D					e		34								
	KEV	iP	23 25	55.1 D	0.8	21.6			eS		51								
	H:		23 16	09.1					e		55 49								
			52.6 N, 169.5 W, 33 km (R)							eLR	18	52.3							
			Fox Islands							H:		18 48 43.9							
												73.4 N, 6.8 E, 33 km (R)							
												Greenland Sea							
17	NUR	iP	19 37	47.7	0.9	18.5		19	NUR	iP	05 30	58.5 U	0.8	46.6					
		i		38 00.7					i		31 15.0								
	KJN	eP	19 37	24					KJN	iP	05 30	38.5 U	0.8	121.5					
	SOD	eP	19 37	08					i		53.8								
		e		29					SOD	iP	05 30	26.4 U							
	H:		19 27	05					e		47								
			46.2 N, 153.6 E, 33 km (R)							KEV	iP	05 30	17.0	1.0	72.0				
			Kurile Islands							i		23.2							
18	NUR	eSS	09 52	58					H:		05 19 56.1								
		eSSS		57 46							37.6 N, 141.3 E, 67 km								
	KEV	eSS	09 52	06							Honshu, Japan								
		eSSS		57 16					19	NUR	iP	07 18	04.3	1.5	95.8				
	H:		09 12	09.9						i		16.1							
			36.3 S, 100.7 W, 33 km (R)							i		19 03.2							
			Southern Pacific Ocean							eS		22 38							
18	KJN	iP	18 10	06.1					eLQ	07	24.5								
18	NUR	iP	18 11	16.2	1.2	41.9			KJN	eP	07 18	39							
	KJN	iP	18 10	44.0 D	1.1	118.8			ePcP		21 49								
		i		52.5					SOD	iP	07 19	06.3							
		i		11 07.3					KEV	eP	07 19	31							
	SOD	eP	18 10	03					e		24 49								
	KEV	eP	18 09	42					H:		07 12 39.7								
	H:		18 07	54.0							35.0 N, 23.5 E, 33 km								
			73.4 N, 6.8 E, 33 km (R)									Crete							
			Greenland Sea						19	NUR	eP	07 42	07						
										i		38.0							
												cont.							

November				T	A	November				T	A
	KJN	iP	07 41 45.6 U	0.9	22.3	20	NUR	eP	17 52 49		
		i	42 00.6								
	SOD	eP	07 41 33			20	NUR	eP	19 01 09		
		e	47				SOD	eP	19 00 57		
	H: 07 31 14										
	40.5 N, 142.7 E, 33 km (R)										
	Honshu, Japan										
19	NUR	iP	07 53 01.8 U			20	NUR	eP	22 52 32		
	KJN	iP	07 52 56.8 U	1.0	48.0		KJN	iP	22 52 17.7 U	0.8	20.8
	SOD	iP	07 53 04.1 U				SOD	iP	22 52 14.4		
	KEV	iP	07 53 07.0	1.0	46.0			e	24		
	H: 07 42 28.2						KEV	iP	22 52 10.5	0.7	12.9
	18.4 N, 95.3 E, 56 km						H: 22 41 13.1				
	Burma						24.5 N, 122.6 E, 95 km				
							Taiwan				
						21	KJN	eP	00 17 47		
								e	21 28		
19	NUR	iP	07 53 21.3			21	NUR	iP	00 41 58.0		
	KJN	iP	07 53 17.4								
	SOD	iP	07 53 25.5			21	NUR	eP	03 52 10		
19	NUR	eP	14 27 38			21	NUR	eP	11 24 54		
	KJN	iP	14 27 04.5 D	0.6	10.3		KJN	eP	11 24 48		
19	NUR	iP	16 49 28.0 U	0.7	18.9		SOD	eP	11 24 36		
		i	36.3				KEV	eP	11 24 31		
	KJN	iP	16 49 06.5				H: 11 12 02.4				
		i	13.5				18.8 N, 102.3 W, 87 km (R)				
	SOD	iP	16 48 40.8				Michoacan, Mexico				
		e	48								
	H: 16 39 03					21	NUR	iP	12 30 04.6	0.8	24.5
	56.9 N, 154.0 W, 33 km (R)							i	05.2		
	Kodiak Island							eS	38 34		
19	NUR	iP	19 12 42.1	0.5	15.5			eScS	39 50		
	KJN	eP	19 12 41				KJN	iP	12 29 41.8 D	0.9	25.0
	SOD	eP	19 12 57					i	53.0		
	H: 19 05 38							i	30 18.0		
	37.0 N, 71.4 E, 130 km						SOD	iP	12 29 25.0		
	Afghanistan-USSR border							i	34.6		
							H: 12 19 27.3				
20	NUR	iPcP	09 41 16.0				46.7 N, 152.5 E, 40 km (R)				
	KJN	iP	09 40 24.0 D	1.2	31.0		Kurile Islands				
		iPcP	41 01.0								
	SOD	eP	09 40 02			21	NUR	eP	19 29 10		
		ePcP	47				KJN	eP	19 28 51		
	KEV	eP	09 39 51				SOD	eP	19 28 41		
	H: 09 29 59.1						H: 19 18 31.9				
	51.4 N, 176.6 W, 54 km						36.3 N, 137.4 E, 252 km				
	Andreanof Islands						Honshu, Japan				

November

November

November						November							
					T	A					T	A	
22	NUR	iP	06 39	29.1 U	0.8	119.5	22	NUR	iP	16 05	35.0		
		iPcP	40 04.0						i		45.7		
		epP	41 07					KJN	eP	16 05	11		
		e	45 22						i		20.0		
		eS	47 17						H: 15 54 58.6				
		eScS	48 32						52.1 N, 172.7 E, 33 km (R)				
		esS	50 04						Near Islands				
		eSS	51 40										
	KJN	iP	06 39	05.7 U	1.0	152.6	22	NUR	eP	20 18	13		
		iPcP		50.5				KJN	eP	20 18	36		
		ipP	40	41.7									
		ePP	41	35			23	NUR	iPKP	02 38	13.0 U	1.0 22.0	
		epPP	43	05					i		16.2	1.2 108.3	
		eS	46	29					i		26.3		
	SOD	iP	06 38	50.8 U				KJN	ePKP	02 38	06	1.0 63.2	
		ePcP	39	44					i		09.1		
		e	41	07					i		20.7		
	KEV	iP	06 38	38.2 U	1.1	107.1		SOD	ePKP	02 38	02		
		i		44.5				KEV	ePKP	02 38	01	0.8 28.8	
		epP	40	08					H: 02 19 13.8				
		eS	45	40					14.9 S, 166.9 E, 48 km				
		eScS	47	36					New Hebrides Islands				
		H: 06 29 53.5											
		48.2 N, 146.7 E, 453 km (R)											
		Sea of Okhotsk											
22	NUR	ePKP	07 20	06			24	NUR	eP	01 03	44		
	KJN	iPKP	07 20	13.0 U	1.2	80.8	24	NUR	iP	07 04	04.0 U	0.7 31.0	
		i		18.5					i		10.7		
		i		38.2				KJN	iP	07 03	40.3 U	0.9 28.6	
		eSKP	23	40					i		47.0		
	SOD	iPKP	07 20	18.5					i		04 00.0		
		eSKP	23	41				SOD	iP	07 03	16.2 U		
		H: 07 01 11.1								i		22.8	
		57.9 S, 25.3 W, 38 km							KEV	iP	07 02	58.6 U	
		South Sandwich Islands								i		03 05.0	
									H: 06 53 37.1				
									56.5 N, 152.9 W, 33 km (R)				
									Kodiak Island				
22	NUR	iP	09 02	53.0 U	0.8	36.0	24	NUR	iPKP	07 51	32.0 U	0.8 102.2	
		i		03 03.0					i		35.8		
		eS		11 36					i		40.0		
	KJN	iP	09 02	27.1	0.9	17.0			i		50.0		
		e		04 22					i		52 03.3		
	SOD	eP	09 02	05				KJN	iPKP	07 51	20.0		
	KEV	eP	09 01	55					i		23.8		
		H: 08 52 18.2								i		32.5	0.8 23.8
		52.1 N, 172.7 E, 55 km								cont.			
		Near Islands											

November				November			
		T	A		T	A	
	SOD ePKP	07 51	18				
	KEV ePKP	07 51	17				
	i		23.6				
	H:	07 31	51.8				
		30.6 S, 177.9 W, 11 km					
	Kermadec Islands						
24	NUR iP	15 17	51.3	0.8	14.4		
	e		18 51				
	KJN eP	15 17	27				
	SOD eP	15 17	04				
	e		16				
	e		42				
	KEV eP	15 16	46				
	H:	15 07	24				
		56.5 N, 153.0 W, 33 km (R)					
	Kodiak Island						
24	NUR eSS	17 26	11				
	eSSS		30 42				
	H:	16 45	47				
		38.3 S, 92.1 W, 33 km (R)					
	West Chile Rise						
24	KJN eP	19 23	29				
	i		24 03.0				
	SOD eP	19 23	22				
	H:	19 10	53.8				
		17.2 N, 146.0 E, 88 km					
	Mariana Islands						
24	NUR iP	20 19	39.0 D	0.6	15.0		
	KJN eP	20 19	16.3 D	0.6	8.9		
	SOD eP	20 19	03				
	H:	20 09	08				
		43.8 N, 145.7 E, 124 km					
	Hokkaido, Japan						
25	NUR eP	12 56	25				
	KJN eP	12 56	34				
	SOD eP	12 56	31				
25	KJN eP	23 51	32				
	SOD eP	23 51	27				
26	NUR iP	03 28	04.2				
	i		33.8				
	e		29 19				
	eS		31 34				
	eLR	03 32.9					
	cont.						
	KJN eP	03 27	26				
	i		39.4				
	i		28 10.0				
	eS		30 09				
	e		31 14				
	SOD iP	03 26	41.1				
	eS		28 50				
	KEV iP	03 26	13.3	0.6	11.5		
	i		53.0				
	e		27 33				
	eS		54				
	eLQ	03 28.0					
	H:	03 23	44				
		78.4 N, 5.2 E, 33 km (R)					
	Svalbard						
26	NUR eP	05 36	23				
	e		45				
	KJN eP	05 36	03				
	SOD eP	05 35	54				
	H:	05 25	14.0				
		35.6 N, 140.1 E, 64 km					
	Honshu, Japan						
26	NUR eP	13 55	52				
	e		56 37				
	KJN eP	13 55	57				
	e		57 04				
	SOD eP	13 56	19				
	e		57 15				
	H:	13 49	30				
		37.7 N, 58.6 E, 29 km					
	Iran-USSR border						
27	NUR iP	01 12	07.3 U	0.8	11.5		
	SOD eP	01 12	57				
27	NUR iP	02 26	02.5	0.8	15.8		
27	NUR eP	03 06	10				
	KJN iP	03 05	26.2				
	SOD iP	03 04	42.0				
	i		47.3				
	KEV eP	03 04	13				
	i		18.3				
	i		34.7				
	eS		05 55				
	eLR	03 06.5					
	H:	03 02	01				
		77.0 N, 7.5 E, 33 km (R)					
	Svalbard						

November				November			
		T	A			T	A
27	NUR eP	04 20	45		eS	20 48	
	KJN eP	04 20	20		eSS	21 10	
	i		24.0		e	42	
	SOD eP	04 19	56		eLR	20 22.1	
	KEV eP	04 19	36		KJN iP	20 16 41.2 U	1.0 34.9
	H: 04 10 43				i	45.2	
	60.1 N, 146.2 W, 28 km				e	19 12	
	Southern Alaska				eS	23	
27	NUR iP	04 25	37.5 U		SOD iP	20 15 56.5	
	KJN eP	04 25	12		i	58.0	
	SOD iP	04 24	49.3 U		i	16 05.0	
	KEV eP	04 24	29		iS	18 08.3	
	H: 04 15 31				KEV iP	20 15 28.0	
	60.0 N, 146.4 W, 11 km				i	44.0	
	Gulf of Alaska				i	59.0	
27	NUR eP	12 58	37		i	16 07.6	
	KJN eP	12 58	12		eS	17 16	
	SOD eP	12 57	55		eLQ	20 17.5	
	H: 12 48 02				H: 20 13 01.5		
	48.1 N, 155.0 E, 28 km				78.5 N, 6.4 E, 33 km (R)		
	Kurile Islands				Svalbard		
27	KJN eP	13 53	35		28 KJN eP	00 49 01	
	epP		54 30		SOD eP	00 49 22	
	SOD eP	13 53	27		28 NUR ePS	07 58 25	
	epP		54 17		eSS	08 03 25	
	KEV iP	13 53	21.0		eSSS	07 08	
	H: 13 41 19.0				eLR	08 16.0	
	17.5 N, 145.4 E, 214 km				KJN eP	07 46 05	1.5 73.3
	Mariana Islands				SOD eP	07 46 09	
27	NUR eP	14 33	45	0.8 11.5	KEV eS	07 56 22	
	e		34 30		eSS	08 02 55	
	KJN eP	14 33	21		H: 07 32 53.4		
	SOD eP	14 32	53		6.6 N, 82.7 W, 33 km (R)		
	e		33 06		South of Panama		
	H: 14 23 42.0				28 SOD eP	19 40 52	
	60.3 N, 146.2 W, 31 km				H: 19 28 55		
	Southern Alaska				17.7 N, 145.6 E, 309 km		
27	KJN iP	15 52	17.4		Mariana Islands		
	SOD eP	15 51	29		29 NUR iP	17 27 22.3 D	0.9 20.2
27	NUR iP	20 17	21.0 U	1.2 256.5	e	32	
	i		29.5		KJN eP	17 27 02	
	i		36.8		SOD eP	17 26 47	
	i	18	30.0		H: 17 16 34		
	cont.				41.5 N, 144.2 E, 40 km		
					Hokkaido, Japan		

November										November											
					T	A										T	A				
29	NUR	iPKP	22 36	15.2 U	1.0	46.0					SOD	iP	13 02	49.7							
		i		17.7								e	03 14								
		ipPKP	37 00	00.9								eS	04 26								
		i		23.0								e	07 52								
		e	39 34								KEV	iP	13 02	27.0 D							
		ePS	48 46									eS	03 46								
		e	50 34									e	04 01								
		eSS	55 40								H:	13 00 40									
KJN	iPKP	22 36	07.0	1.0	21.8					73.4 N, 7.0 E, 33 km (R)											
	i		11.0							Greenland Sea											
	epPKP		54																		
	e	37 15																			
SOD	iPKP	22 36	06.3							30	NUR	iP	13 47	17.2 U 1.2 54.2							
KEV	iPKP	22 36	01.0								i		23.0								
	e		32																		
	epPKP	37 19																			
	ePS	46 46																			
	eSS	53 36																			
H: 22 17 29.9																					
14.7 S, 167.4 E, 161 km (R)																					
New Hebrides Islands																					
30	NUR	eP	00 42	14																	
		i		22.5																	
KJN	iP	00 41	54.2 U	0.8	20.0																
	i	42 06	06.6																		
SOD	eP	00 41	45																		
	e		57																		
H: 00 30 27.7																					
30.7 N, 141.9 E, 20 km																					
South of Honshu, Japan																					
30	NUR	iP	13 04	03.8 D	1.2	74.1															
		i		27.8																	
		e	07 12																		
		e	43																		
KJN	iP	13 03	28.2																		
	i		30.0																		
	eS	05 25																			
	i		37.0																		
	e	06 22																			
cont.																					

March 10, 1967  
Urmas Luosto  
Aili Huovila



December

T A

1 KJN iP 00 45 35.0  
i 39.8  
SOD eP 00 45 36  
H: 00 32 32  
0.1 N, 125.6 E, 123 km  
Molucca Passage

1 NUR eP 04 39 24 0.8 14.4  
KJN iP 04 39 01.0 U 0.7 17.8  
i 04.9  
SOD iP 04 38 36.2 U  
i 40.1  
e 39 19  
KEV iP 04 38 18.8 U 1.2 46.7  
H: 04 29 23.3  
60.1 N, 146.4 W, 38 km  
Southern Alaska

1 NUR iPKP 05 15 46.0 U 0.6 375.0  
i 53.6  
epPKP 16 21  
ePP 17 42  
e 22 21  
iSKS 45.0  
e 24 28  
eSP 27 26  
e 30 32  
e 32 34  
eSS 34 40  
e 37 22  
eSSS 39 24  
KJN ePKP 05 15 33  
i 39.7  
ipPKP 16 10.8  
e 18 34  
iSKP 19 10.2  
ePKS 16  
iSKS 22 34.5  
ePKKP 25 36  
eSKKP 29 28  
SOD iPKP 05 15 35.2  
eSKP 19 04  
ePKKP 25 42  
e 26 16  
KEV iPKP 05 15 32.0 0.6 128.0  
i 33.1  
ePP 16 53  
epPP 17 30  
eSKP 19 01  
iPKS 09.0  
eSKS 22 18  
e 23 32  
ePKKP 25 50  
cont.

December

T A

ePS 26 30  
ePPS 27 24  
e 30 16  
eSS 32 30  
eSSS 36 36  
H: 04 56 58.2  
14.0 S, 167.1 E, 132 km  
New Hebrides Islands

1 KJN iP 11 51 05.6 U 0.7 8.9  
H: 11 38 24.7  
6.2 N, 126.6 E, 111 km  
Mindanao, P.I.

1 NUR iP 19 06 48.0 D 0.6 30.0  
i 55.7  
epP 07 30  
ePP 09 12  
e 10 34  
KJN iP 19 06 26.0 D 0.7 35.6  
i 32.9  
ipP 07 05.0  
ePP 08 42  
SOD iP 19 06 14.3 D  
i 20.3  
ePP 08 26  
KEV iP 19 06 04.1  
i 10.0  
epP 44  
H: 18 56 23.1  
41.6 N, 139.6 E, 173 km (R)  
Hokkaido, Japan

2 NUR eP 03 15 07  
i 12.8 0.6 31.3  
i 35.0  
e 17 13  
KJN eP 03 15 22  
i 27.3  
ePP 16 58  
eS 21 27  
SOD eP 03 15 46  
i 52.3  
ePP 17 18  
KEV eP 03 16 01  
i 07.9  
e 38  
H: 03 07 54.0  
28.2 N, 53.2 E, 40 km  
Southern Iran

2 KJN eP 07 57 09  
SOD eP 07 57 07  
H: 07 43 51  
0.2 S, 125.2 E, 33 km (R)  
Molucca Sea

December

December

				T	A					T	A
2	KJN	iP	08 21 26.7	0.7	11.6	6	NUR	iP	02 38 01.0 D	0.5	17.2
2	NUR	eP	09 44 25				KJN	iP	02 38 02.7	0.9	13.4
	KJN	iP	09 44 15.0 U				SOD	eP	02 38 10		
	SOD	iP	09 44 14.0 D				H: 02 30 53				
	KEV	eP	09 44 11	0.8	10.1		36.2 N, 70.0 E, 58 km				
		i	16.3				Hindu Kush				
	H: 09 31 17.6					6	NUR	eP	04 34 23		
	3.2 N, 128.1 E, 92 km					6	SOD	ePKP	05 44 20		
	North of Halmahera						H: 05 25 07.2				
3	NUR	iPKP	14 31 48.4				41.9 S, 83.7 W, 33 km (R)				
		iSKP	34 48.0				West Chile Rise				
	KJN	ePKP	14 31 44			6	NUR	iP	07 29 12.3 U	0.8	28.8
		i	50.6	0.8	18.5			i	32.4		
		iSKP	34 37.7					e	30 08		
	SOD	ePKP	14 31 42				KJN	iP	07 28 46.9 D	1.0	27.3
		iSKP	34 29.3				SOD	iP	07 28 29.7 U		
	KEV	ePKP	14 31 42				KEV	iP	07 28 15.0	1.0	30.8
		eSKP	34 22				H: 07 18 40				
	H: 14 13 25.2						50.1 N, 159.8 E, 27 km				
	24.7 S, 179.9 E, 492 km (R)						Kurile Islands				
	South of Fiji Islands					6	NUR	eP	08 01 43		
4	NUR	eP	04 14 54				KJN	eP	08 01 17		
4	KJN	eP	16 35 13			6	NUR	eP	10 55 33		
	H: 16 24 28							i	41.2		
	38.7 N, 144.2 E, 33 km (R)						KJN	iP	10 55 11.4 D	0.8	16.1
	Honshu, Japan						SOD	iP	10 54 58.9		
4	NUR	eP	23 29 49				H: 10 45 02.0				
	SOD	eP	23 30 39				41.9 N, 141.1 E, 127 km				
	Hokkaido, Japan					7	NUR	iP	11 06 02.0 D	0.9	31.9
5	NUR	eP	00 00 08				KJN	iP	11 06 32.7		
5	NUR	eP	01 39 15				H: 11 01 15				
	SOD	eP	01 38 27				40.1 N, 35.7 E, 33 km (R)				
	Turkey					7	NUR	eP	17 12 40		
5	NUR	e(P)	07 34 24				KJN	iP	17 12 25.2	1.0	21.8
	KJN	eP	07 33 57				SOD	eP	17 12 18		
		e	34 07				H: 16 59 29.2				
	H: 07 23 05.0						11.9 N, 142.6 E, 33 km (R)				
	32.2 N, 131.8 E, 33 km (R)						South of Mariana Islands				
	Kyushu, Japan					7	NUR	iP	17 28 34.0 D	1.0	88.0
5	NUR	eP	17 11 56					i	43.6		
5	NUR	eP	22 42 43	0.8	8.6			i	51.1		
	KJN	eP	22 42 26					i	29 18.7		
	SOD	eP	22 42 18					i	51.3		
	H: 22 30 32.6							iPP	30 58.0		
	25.8 N, 142.7 E, 33 km (R)						cont.				
	Volcano, Islands										

December

December

					T	A
	KJN	iP	17 28	10.7 D	1.0	89.4
		i		18.7		
		i		28.8		
		iPP	30	37.9		
	SOD	iP	17 27	55.3		
		i		28 14.0		
	KEV	iP	17 27	43.6	1.0	67.7
		i		28 00.1		
	H: 17 17 42.0					
	44.3 N, 151.7 E, 26 km					
	Kurile Islands					
8	NUR	iP	00 06	08.0	1.0	34.0
		i		40.5		
	KJN	iP	00 06	10.9 U	1.0	60.0
		ipP		49.3		
	SOD	iP	00 06	04.4		
		epP		41		
	H: 23 54 35.9					
	18.3 N, 68.5 W, 141 km (R)					
	Mona Passage					
8	NUR	eP	02 15	06		
	SOD	iP	02 15	29.6		
	H: 02 07 07.4					
	29.3 N, 69.9 E, 37 km					
	West Pakistan					
8	NUR	iP	11 35	35.0	1.0	30.0
	KJN	iP	11 36	18.5 D	0.9	52.7
		i		30.7		
	SOD	eP	11 36	47		
	KEV	eP	11 37	22		
	H: 11 31 18.0					
	42.2 N, 18.9 E, 24 km					
	Yugoslavia					
8	NUR	iP	14 16	38.0		
	KJN	iP	14 16	16.7 D	0.6	23.3
	SOD	iP	14 16	04.8		
	H: 14 05 50					
	39.8 N, 141.4 E, 73 km					
	Honshu, Japan					
8	NUR	iP	15 13	01.0	0.7	15.5
		e		13		
	KJN	iP	15 12	34.1		
	SOD	eP	15 12	02		
	H: 15 02 59					
	56.1 N, 164.7 E, 33 km (R)					
	Komandorsky Islands					

					T	A
8	SOD	iP	18 18	42.5		
8	NUR	eP	18 49	35		
	SOD	eP	18 48	10		
8	KJN	eP	23 27	50		
	SOD	eP	23 27	23		
	H: 23 18 09					
	60.1 N, 146.5 W, 35 km					
	Southern Alaska					
9	NUR	iP	16 54	41.7 D	1.0	82.3
		i		49.3		
		i		56.5		
	KJN	iP	16 54	16.0 U	1.1	67.5
		i		26.5		
	SOD	iP	16 53	56.1		
	KEV	eP	16 53	40		
	H: 16 43 57.7					
	51.7 N, 174.6 E, 21 km					
	Near Islands					
10	NUR	eP	13 19	27		
		i		31.2	0.8	26.8
		ePP		22 58		
		eSKS		29 56		
		eSS		36 18		
	KJN	iP	13 19	24.1	1.0	21.8
		iPP		22 53.8		
	SOD	iP	13 19	12.6		
	KEV	iP	13 19	12.0 U	0.7	33.5
		ePP		22 20		
		e		25 40		
		eS		29 32		
		eSS		34 56		
	H: 13 06 32.6					
	14.3 N, 92.0 W, 70 km					
	Guatemala					
10	NUR	iP	13 20	18.0		
	KJN	iP	13 20	15.5		
	KEV	eP	13 19	52		
10	NUR	iP	17 13	09.0		
		i		16.7		
		i		33.4		
		i		50.0		
		i	15	53.6		
		iS	16	34.2		
		i		37.8		
		i	18	06.4		
		i		32.4		
	cont.					

December				T	A	December				T	A	
	KJN	iP	17 13 42.7 D	1.0	34.9	11	NUR	eP	20 12 22			
		i	14 13.5				KJN	iP	20 11 57.3 D	0.7	18.5	
		iS	17 52.0				SOD	iP	20 11 35.8			
	SOD	iP	17 14 12.7				KEV	iP	20 11 19.5 D	0.8	22.1	
		i	46.4									
		i	19 09.9			11	NUR	eP	20 21 29	1.5	114.0	
	KEV	eP	17 14 32					eSKS	32 08			
		i	15 15.5					ePS	33 32			
		eS	19 30				KJN	eP	20 21 16	0.7	15.1	
	H:	17 08 32.2					SOD	eP	20 21 10			
		41.0 N, 33.5 E, 13 km					KEV	iP	20 21 04.3			
		Turkey						eSKS	31 32			
							H:	20 08 22.3				
10	NUR	eSKS	18 33 14					13.4 N, 146.0 E, 50 km				
		ePS	36 20					Mariana Islands				
		eSS	42 06									
		e	30				12	SOD	eP	18 13 52		
	KEV	ePS	18 35 30					H:	18 00 54			
		eSS	40 54					12.6 N, 146.0 E, 33 km (R)				
		eSSS	44 46					South of Mariana Islands				
	H:	18 08 14.4					13	NUR	iP	12 28 06.1 U	1.0	107.8
		3.6 S, 145.4 E, 33 km (R)						ipP	33.7			
		New Guinea						e	47			
								ePP	29 30			
11	SOD	eP	02 17 08				KJN	iP	12 28 03.4 D	1.0	102.5	
	H:	02 07 12.1						ipP	32.7			
		53.6 N, 163.6 W, 47 km						e	47			
		Unimak Island						iPP	29 11.3			
								ePcP	30 17			
11	NUR	iP	03 13 16.8				SOD	iP	12 28 19.9 U			
	SOD	eP	03 14 22					epP	49			
	KEV	eP	03 14 31					ePP	29 44			
11	SOD	eP	16 44 45				KEV	iP	12 28 28.3 U	0.9	41.0	
		eS	46 37					i	29 14.4			
								ePPP	30 33			
								eSS	37 32			
11	NUR	iP	19 58 15.7 D	0.5	21.9		H:	12 21 02.3				
	KJN	iP	19 57 52.5 U	0.6	13.7			37.3 N, 71.9 E, 126 km				
		i	58 06.3					Afghanistan-USSR border				
	SOD	iP	19 57 39.8 D									
	KEV	iP	19 57 28.4	0.7	15.8	14	NUR	iP	03 54 20.7 D	1.2	46.2	
	H:	19 47 34.2						KJN	iP	03 53 54.5 U	1.1	41.9
		42.9 N, 144.6 E, 57 km							i	54 58.2		
		Hokkaido, Japan						SOD	iP	03 53 35.2		
									i	54 54.3		
11	KJN	eP	20 05 02				KEV	iP	03 53 19.0 D			
	SOD	eP	20 04 55					i	36.6			
	KEV	eP	20 04 49					e	54 27			
	H:	19 52 09.4					H:	03 44 01.9				
		13.4 N, 145.8 E, 59 km						52.9 N, 177.6 W, 243 km				
		Mariana Islands						Andreanof Islands				

December

December

					T	A
14	SOD	eP	06 53 49			
		e	52			
	KEV	eP	06 54 01			
	H:		06 42 24			
			11.0 N, 43.1 W, 33 km (R)			
			North Atlantic Ridge			
14	KJN	iP	11 15 10.0 D	1.0	38.2	
	SOD	iP	11 15 00.5			
	H:		11 04 25			
			36.2 N, 139.6 E, 72 km			
			Honshu, Japan			
14	KJN	iP	14 54 04.8 U	0.8	61.5	
		i	14.8			
		eS	57 27			
	SOD	iP	14 54 39.9 U			
		i	45.1			
		e	57 39			
	KEV	iP	14 55 02.9 D	1.2	122.6	
		i	12.9			
		i	56 28			
	H:		14 49 59.8			
			45.6 N, 26.4 E, 158 km			
			Rumania			
14	KJN	eP	15 46 24			
	SOD	eP	15 46 52			
14	KJN	eP	21 21 56			
		ePP	26 25			
		ePKKP	37 32			
	SOD	eP	21 21 50			
		ePP	26 22			
		ePKKP	37 28			
	KEV	eP	21 21 48			
		e	56			
		ePP	26 03			
		e	20			
		ePPP	28 32			
		eSKS	32 24			
		eS	33 16			
		ePS	35 02			
		eSS	40 46			
		e	41 56			
		eSSS	45 00			
		eLQ	21 52.0			
		eLR	21 56.1			
	H:		21 07 52.1			
			4.8 S, 143.9 E, 74 km			
			New Guinea			

					T	A
15	KJN	iP	02 18 06.9 U	1.0	54.5	
		ipP	32.0			
		ePcP	50			
		iScP	22 44.1			
	SOD	iP	02 18 13.8 U			
		epP	35			
	KEV	iP	02 18 17.2 U	0.8	43.2	
		ipP	41.5			
	H:		02 08 03.0			
			21.7 N, 94.5 E, 81 km			
			Burma			
16	SOD	eP	05 13 56			
		eS	15 47			
16	NUR	iP	21 00 56.0	1.3	79.8	
		ePP	02 50			
		i	03 15.8			
		eS	07 40			
		e	54			
		eScS	11 09			
		eSS	28			
	KJN	iP	21 00 54.0	1.6	442.8	
		ePP	02 49			
		eS	07 49			
	SOD	iP	21 01 05.7			
		i	19.6			
		ePP	02 51			
	KEV	iP	21 01 12.9 U	0.9	85.7	
		i	18.0			
		i	48.0			
		e	03 03			
		ePP	15			
		eS	08 18			
		e	12 10			
		e	30			
		e	13 50			
		e	14 14			
		eLQ	21 15.5			
	H:		20 52 13.5			
			29.6 N, 81.0 E, 9 km			
			Nepal			
16	NUR	eP	22 21 33			
	KJN	eP	22 21 30			
	SOD	eP	22 21 43			
	KEV	eP	22 21 49			
	H:		22 12 49.2			
			29.7 N, 81.0 E, 5 km			
			Nepal-India border			
17	NUR	iP	06 03 26.0 U	1.5	129.3	
		iS	06 45.0			

cont.

December				December					
		T	A		T	A			
KJN	iP	06 03	06.5	20	NUR	iP	01 07 07.1		
	i		09.7		KJN	iP	01 06 42.0 U 1.0 34.9		
	i	04	09.0		SOD	iP	01 06 15.7 D		
	eS	06 02			KEV	iP	01 05 56.1 D 0.7 23.8		
	e		24		H: 00 57 53.1				
SOD	iP	06 02	34.6		66.7 N, 148.7 W, 33 km (R)				
	i		43.1		Alaska				
	iS	05	10.2	20	SOD	iP	01 14 25.7		
KEV	iP	06 02	29.0	20	NUR	iPKP	12 44 22.8 0.8 41.1		
	i		40.0			iSKP	47 03.7		
	e	03 18				e	54 10		
	eS	05 04				ePS	55 08		
H: 05 59 10.2						ePKKP	27		
70.7 N, 14.0 W, 27 km						esPS	57 32		
Jan Mayen Island						eSS	13 00 04		
17	NUR	iPKP	20 36 19.0	1.1	28.0	KJN	iPKP	12 44 27.0 D 0.8 63.8	
	KJN	iPKP	20 36 08.9				ePKKP	55 12	
	i		20.6			i	21.0		
H: 20 16 58							epPKKP	57 25	
33.7 S, 179.9 W, 175 km						SOD	eP	12 40 44	
South of Kermadec Islands							iPKP	44 27.1 D	
18	NUR	iP	05 04 19.5 U 0.6 82.5				ePP	45 28	
	i		51.7				iSKP	47 08.3	
	i	05	07.0				ePKKP	55 12	
	i	10	34.0				i	20.3	
KJN	iP	05 04	06.9 U 0.6 111.0				epPKKP	57 15	
	i		18.0			KEV	iPKP	12 44 27.6 D	
	i		36.1				iPP	45 31.6	
SOD	iP	05 04	13.3 U			H: 12 26 55.0			
	i		47.1			26.1 S, 63.2 W, 589 km (R)			
	e	05	46			Santiago del Estero, Argentina			
KEV	iP	05 04	16.8 U 0.7 55.4			20	NUR	eP	13 19 56
	e		33				KJN	iP	13 19 41.1
	i		50.0				SOD	eP	13 19 33
	i	05	09.8				e	41	
H: 04 57 57.8						H: 13 07 47			
49.9 N, 77.7 E, 0 km (R)						25.5 N, 142.7 E, 33 km (R)			
Eastern Kazakh SSR						Volcano Islands			
18	NUR	iP	07 47 46.0			20	NUR	iP	15 41 56.0 U 1.0 121.0
	i		50.4				i	42 19.0	
H: 07 42 18.8							ePP	44 44	
35.1 N, 27.1 E, 33 km (R)						KJN	iP	15 41 42.1 U 1.0 147.2	
Dodecanese Islands							ePP	44 29	
20	NUR	iP	00 35 42.3			SOD	iP	15 41 23.4 U	
	KJN	eP	00 35 16	0.8	21.5		e	45	
	SOD	iP	00 34 50.0				ePP	43 53	
	KEV	eP	00 34 32			KEV	iP	15 41 10.9 U 1.1 71.4	
H: 00 26 27.8							i	28.5	
66.7 N, 148.7 W, 33 km (R)									
Alaska									

December				December			
				T	A	T	A
20	NUR	ePP	16 37 47				
	KJN	ePP	16 37 12				
	SOD	eP	16 33 02				
		ePP	37 07				
	KEV	ePP	16 36 53				
	H:		16 20 05.8				
			7.2 S, 126.1 E, 441 km				
			Banda Sea				
20	NUR	iP	18 51 53.4				
		i	52 01.0				
		i	46.3				
		eS	19 02 02				
		ePS	52				
	KJN	iP	18 51 42.2 U	0.8	37.7		
		i	50.2				
	SOD	iP	18 51 41.5				
		i	49.1				
	KEV	iP	18 51 38.9	0.8	21.6		
		i	45.8				
		eS	19 01 28				
	H:		18 39 40.3				
			14.3 N, 122.1 E, 37 km				
			Luzon, P.I.				
20	NUR	eP	22 55 31				
	H:		22 44 57				
			55.4 N, 155.0 W, 33 km (R)				
			South of Alaska				
21	NUR	eP	05 40 42				
	SOD	eP	05 39 58				
	H:		05 30 23				
			52.1 N, 159.5 E, 33 km (R)				
			Kamchatka				
21	SOD	eP	06 40 55				
	H:		06 29 05				
			25.4 N, 142.8 E, 33 km (R)				
			Volcano Islands				
21	NUR	iPKP	09 10 37.0	0.8	22.1		
		i	46.0	1.1	128.4		
		iPP	13 11.0				
		iSKP	50.3				
		iPKS	14 13.4				
		e	19 41				
		eSKSP	22 50				
	KJN	ePKP	09 10 32				
		i	39.6	1.2	177.2		
		ePP	12 53				
		iSKP	13 37.1				
		iPKS	14 01.5				
			cont.				
	SOD	iPKP	09 10 35.3				
		ePP	12 34				
	KEV	iPKP	09 10 31.7	1.2	171.0		
		eSKP	13 36				
	H:		08 52 00.2				
			20.0 S, 169.7 E, 245 km				
			New Hebrides Islands				
21	NUR	eP	11 50 58				
	KJN	iP	11 50 49.0 D				
	SOD	eP	11 50 51				
	H:		11 38 08				
			5.9 N, 126.1 E, 99 km				
			Mindanao, P.I.				
21	KJN	iP	22 19 38.2	1.0	25.1		
	SOD	eP	22 19 50				
	KEV	iP	22 19 55.7 U	0.5	29.0		
	H:		22 10 58.8				
			29.4 N, 81.0 E, 31 km				
			Nepal-India border				
22	SOD	eP	02 22 50				
	H:		02 12 55.2				
			54.1 N, 163.9 W, 33 km (R)				
			Unimak Island				
22	SOD	eP	02 30 01				
	H:		02 20 06				
			53.8 N, 163.8 W, 33 km (R)				
			Unimak Island				
22	NUR	eP	12 36 46				
	KJN	eP	12 36 48				
		e	37 35				
	Moscow:						
	H:		12 29 59				
			38.1 N, 65.9 E				
			Turkmen SSR				
22	NUR	iP	17 37 15.0	0.8	12.3		
	KJN	eP	17 36 52				
	SOD	eP	17 36 36				
	H:		17 26 32				
			43.9 N, 147.2 E, 38 km				
			Kurile Islands				
22	NUR	iP	19 34 31.5				
	KJN	eP	19 34 07				
		e	53				
			cont.				

December				December				
		T	A			T	A	
	SOD eP	19 33 45			24 NUR iP	22 38 57.0 U	0.7 21.6	
	e	52			i	39 03.6		
	H:	19 24 06.5			ipP	21.8		
		48.6 N, 154.3 E, 77 km (R)			isP	34.0		
		Kurile Islands			KJN iP	22 38 32.8	0.9 22.3	
23	KJN eSKP	01 31 54			i	38.6		
	H:	01 11 15.6			iPcP	39 26.0		
		17.9 S, 178.6 W, 575 km (R)			SOD iP	22 38 06.0		
		Fiji Islands			i	14.8		
23	SOD eP	14 43 45			ipP	33.2		
	H:	14 31 25			e	39 01		
		0.3 S, 97.1 E, 57 km			KEV iP	22 37 50.8		
		Southwest of Sumatra			i	38 11.8		
					H:	22 28 59.6		
23	NUR eP	16 04 58				59.9 N, 153.4 W, 113 km (R)		
	iPKP	08 52.4	1.0 33.6			Southern Alaska		
	i	09 30.9		25	NUR iP	05 51 44.7	1.0 29.4	
	ePP	48			KJN eP	05 52 01		
	eSKS	15 29			SOD eP	05 52 24		
	e	16 32			KEV eP	05 52 48		
	ePS	19 06			H:	05 42 45		
	iPKKP	43.0				14.1 N, 53.8 E, 33 km (R)		
	eSS	25 14				Arabian Sea		
	eSSS	29 50		25	NUR eP	17 14 03		
	eLR	16 46.0			KJN eP	17 14 03		
	KJN iP	16 04 45.0	1.4 89.1		i	04.8		
	i	05 09.8			SOD eP	17 14 14		
	ePP	09 10			KEV eP	17 14 24		
	e	11 35			H:	17 07 01		
	ePKKP	20 05				37.2 N, 70.1 E, 91 km		
	SOD iP	16 04 38.8				Afghanistan-USSR border		
	i	52.5			25	NUR iP	23 14 03.8	0.6 10.5
	e	05 03			i	17 12.0	1.1 29.9	
	e	08 54			KJN iP	23 13 39.0 U	0.8 11.5	
	ePP	09 13			SOD iP	23 13 18.2 U		
	ePKKP	19 54			H:	23 03 22.8		
	e	20 08				51.8 N, 176.1 E, 47 km		
	KEV eP	16 04 33				Rat Islands		
	e	08 20			26	NUR iP	01 35 04.0	1.0 18.9
	e	45			epP	34		
	eSKS	15 10			ePP	36 30		
	e	40			KJN iP	01 35 05.5	0.9 14.3	
	eSP	18 00			e	33		
	eSS	23 30			ePP	36 33		
	eSSS	28 00			SOD eP	01 35 21		
	H:	15 50 20.4			epP	55		
		7.1 S, 148.3 E, 43 km			H:	01 28 04.3		
		East New Guinea				35.9 N, 69.9 E, 180 km (R)		
24	KJN eP	06 12 57	1.1 28.4			Hindu Kush		
	H:	06 00 58.6						
		25.4 N, 142.6 E, 18 km						
		Volcano Islands						







## December

T A

 KEV eP 18 38 16  
 ePKP 41 44  
 e 42 10  
 ePP 43 04  
 ePPP 45 00  
 e 47 12  
 e 49 12  
 e 51 02  
 ePKKP 52 15  
 ePS 53 03  
 eSS 59 18

 H: 18 23 03.9  
 11.8 S, 166.5 E, 33 km (R)  
 Santa Cruz Islands

 31 NUR iP 18 48 14.7 1.2 42.8  
 KJN eP 18 47 53

 31 NUR iPKP 19 12 06.0  
 i 09.7 1.0 60.0  
 i 13 07.0  
 KJN ePKP 19 11 59  
 i 12 02.8  
 i 15.0

 SOD ePKP 19 11 57  
 KEV ePKP 19 11 54  
 H: 18 53 13  
 11.6 S, 165.9 E, 33 km (R)  
 Santa Cruz Islands

31 NUR iP 19 18 36.7

 31 NUR ePKP 19 57 26 0.9 33.6  
 i 27.4

 KJN iPKP 19 57 20.3 0.9 13.4  
 e 28

 SOD ePKP 19 57 16  
 H: 19 38 29.9  
 11.6 S, 166.0 E, 33 km (R)  
 Santa Cruz Islands

## December

T A

 31 NUR ePKP 21 18 40  
 i 19 04.7  
 KJN e 21 18 56

 H: 20 59 45  
 11.6 S, 166.0 E, 33 km (R)  
 Santa Cruz Islands

31 NUR eP 21 48 57

 31 NUR ePKP 22 34 05  
 i 26.0  
 i 35 13.0

 KJN ePKP 22 34 02  
 i 10.5  
 i 35 05.5

 ePKKP 44 35  
 SOD ePKP 22 33 57  
 e 34 12  
 ePKKP 44 30

 H: 22 15 14.0  
 11.3 S, 164.8 E, 33 km (R)  
 Santa Cruz Islands

 31 NUR iP 22 45 42.3  
 KJN eP 22 45 37

March 29, 1967

 M. T. Porkka  
 Aili Huovila