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INSTITUTE OF SEISMOLOGY
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SEISMOLOGICAL BULLETIN

1969

Helsinki, Finland

INSTITUTE OF SEISMOLOGY
UNIVERSITY OF HELSINKI

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Address:

Institute of Seismology
University of Helsinki
Et. Hesperiankatu 4
Helsinki 10
Finland

Stations:

Nurmijärvi	(NUR)	60°30'32"N	24°39'05"E
Kajaani	(KJN)	64.1° N	27.7° E
Oulu	(OUL)	65°05'07"N	25°53'47"E
Sodankylä	(SOD)	67°22'16"N	26°37'45"E
Kevo	(KEV)	69°45'19"N	27°00'24"E

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

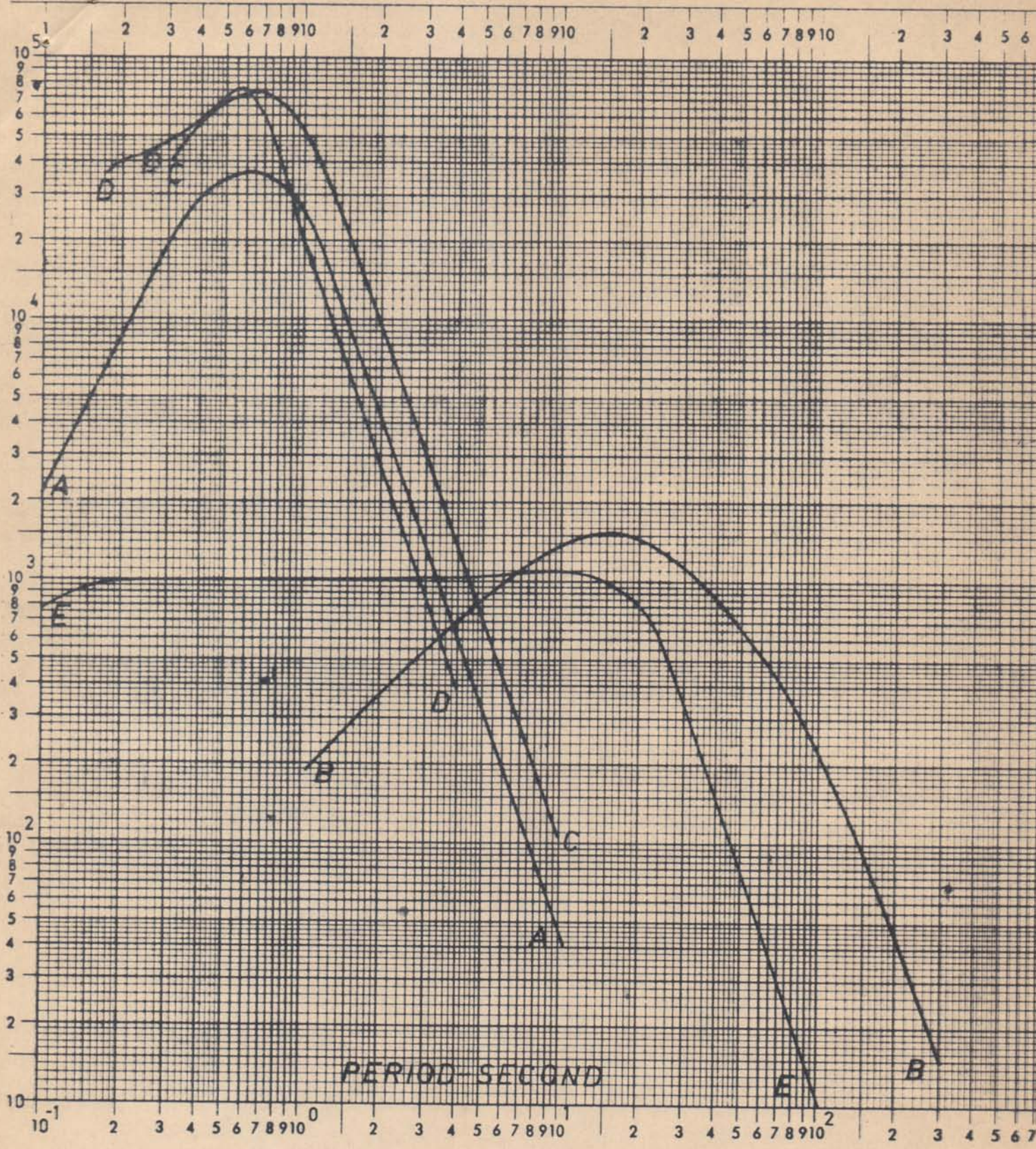
Direction of earth's movement: U = up, D = down

The maximal center-to-peak ground amplitudes (A) and the corresponding periods (T) in seconds are reported for the P phases and for the surface waves. The letter "u" following the amplitude value indicates that the amplitude is reported in microns. If no letter follows the amplitude value, the amplitude is reported in millimicrons.

The P phase amplitudes are measured from the short-period vertical records within the first five cycles. The surface wave amplitudes are measured from the long-period seismograms.

SEISMOGRAPHS

Station and Seismometers	Comp.	Period sec.		Damp.const.		Max. Magn.
		Seism.	Galv.	Seism.	Galv.	
NUR						
Press-Ewing	Z,N,E	15.0	100.0	1.0	1.0	1 500
Benioff	Z,N,E	1.0	0.75	0.67	1.0	37 000
KJN						
Benioff Portable	Z,N,E	1.0	0.75	0.67	1.0	74 000
OUL						
Willmore	Z	0.75	0.2	0.4	1.0	ca. 470 000
SOD						
Benioff	Z	0.9	0.2	0.46	1.0	77 000
Kirnos	Z,N,E	25.0	1.2	0.50	8.0	1 000
KEV						
Press-Ewing	Z,N,E	15.0	100.0	1.0	1.0	1 500
Benioff	Z,N,E	1.0	0.75	0.67	1.0	37 000



RESPONSE CURVES 1969

- | | | |
|-----|---------------------------|-------------|
| A-A | Short-period seismographs | NUR and KEV |
| B-B | Long-period seismographs | NUR and KEV |
| C-C | Benioff Z, N and E | KJN |
| D-D | Benioff Z | SOD |
| E-E | Kirnos Z, N and E | SOD |

January

				T	A
1	NUR	eP	00 15 20		
1	NUR	eP	00 43 45		
1	NUR	iP	01 22 07.7	1.0	30.0
	SOD	eP	01 22 23		
		e	23 02		
1	NUR	iP	05 04 29.6	0.7	19.4
		i	36.5		
	KJN	iP	05 04 06.1	0.7	16.4
	OUL	iP	05 03 58.9		
		ipP	04 10.5		
	SOD	iP	05 03 43.7 D		
		epP	55		
	KEV	iP	05 03 26.5	0.9	13.8
		i	40.8		
			H: 04 53 37.7		
			52.1 N, 170.0 W, depth N		
			Fox Islands		
1	OUL	ePKP ²	07 13 42		
	KEV	eSS	07 37 08		
		e	38 12		
		eSSS	43 24		
			H: 06 53 29.0		
			60.5 S, 150.6 E, depth N		
			West of Macquarie Island		
1	NUR	iP	09 17 54.1 U	0.9	124.3
		i	18 02.8		
		i	16.2		
	KJN	iP	09 17 28.6 U	0.9	45.5
		iPcP	18 07.1		
	OUL	iP	09 17 24.7		
		i	43.2		
	SOD	iP	09 17 09.0 U		
		i	31.3		
	KEV	iP	09 16 54.4		
			H: 09 07 04.3		
			51.2 N, 179.4 W, 34 km		
			Andreanof Islands		
1	KJN	eP	12 30 29		
			H: 12 19 27.8		
			29.3 N, 130.1 E, 36 km		
			Ryukyu Islands		
1	NUR	eP	14 46 18		
	KJN	eP	14 46 22		
	SOD	eP	14 46 08		

January

				T	A
1	OUL	eP	16 21 25		
		i	31.9		
			H: 16 12 02.2		
			14.2 N, 53.7 E, depth N		
			Arabian Sea		
1	NUR	iP	16 46 27.2 U	0.7	12.9
	KJN	iP	16 45 55.7		
1	NUR	iSKP	17 57 05.1		
			H: 17 35 56.2		
			24.9 S, 179.2 E, 657 km		
			South of Fiji Islands		
1	KJN	iP	18 58 53.0	1.1	17.6
		i	59 11.2		
	OUL	eP	18 58 56		
			H: 18 46 25.6		
			11.2 N, 126.5 E, depth N		
			Philippine Islands		
1	NUR	eP	21 46 44		
			H: 21 41 25.1		
			36.4 N, 23.0 E, 10 km		
			Southern Greece		
1	OUL	eP	23 46 51		
			H: 23 35 36.2		
			34.8 N, 92.6 W, 12 km		
			Arkansas		
2	KJN	eP	00 03 54		
	OUL	eP	00 03 57		
			H: 23 50 55.3		
			4.3 N, 125.5 E, depth N		
			Talau Islands		
2	KJN	iP	00 45 36.1		
	OUL	iP	00 45 30.4		
		i	34.3		
	SOD	iP	00 45 33.7		
			H: 00 36 11.7		
			30.5 N, 41.9 W, depth N		
			North Atlantic Ridge		
2	OUL	eP	01 14 25		
			H: 01 05 07.0		
			30.6 N, 42.0 W, depth N		
			North Atlantic Ridge		
2	NUR	iPKP ²	10 45 16.6	0.8	17.3
	KJN	iPKP	10 44 58.0 U	1.0	29.4
		ipPKP	45 40.4		
			cont.		

January

T A

OUL iPKP 10 44 59.2
i 45 06.6
SOD ePKP 10 44 54
i 45 01.6
KEV iPKP 10 44 54.1 U 1.2 40.9
H: 10 25 22.8
45.0 S, 167.6 E, 134 km
South Island, N.Z.

2 KJN eP 12 20 30
SOD iP 12 20 27.3
H: 12 13 49.0
47.5 N, 27.9 W, depth N
North Atlantic Ridge

2 NUR iP 14 17 09.5 U 0.9 28.6
KJN iP 14 16 43.6 0.9 29.5
i 17 26.4
OUL iP 14 16 39.1
SOD iP 14 16 24.0
i 17 27.8
KEV eP 14 16 08
H: 14 07 05.2
53.9 N, 160.6 E, 76 km (D)
Kamchatka

2 NUR eP 15 22 55
i 23 00.3
KJN eP 15 23 34
OUL eP 15 23 38
H: 15 17 33.9
35.5 N, 28.4 E, depth N
Eastern Mediterranean Sea

2 NUR ePKP 16 05 45
KJN iPKP 16 05 39.6
OUL iPKP 16 05 38.9
H: 15 47 55.4
12.9 S, 169.1 E, 635 km
Santa Cruz Islands

2 NUR iPKP 18 09 33.4 0.6 8.8
i 46.2
iSKP 12 58.8
KJN iPKP 18 09 40.2 0.7 10.3
i 10 46.8
OUL iPKP 18 09 42.0
i 49.6
eSKP 12 56
SOD iPKP 18 09 45.2 U
i 10 07.4
iSKP 12 56.8
cont.

January

T A

KEV iPKP 18 09 50.0
H: 17 50 46.6
56.0 S, 27.5 W, 81 km (D)
South Sandwich Islands

2 NUR iP 18 17 47.1 0.5 15.8
i 18 03.8
KJN iP 18 17 24.9 0.5 12.5
i 41.1
OUL iP 18 17 24.3
SOD iP 18 17 12.6
KEV iP 18 17 02.6
H: 18 07 07.9
42.0 N, 142.4 E, 70 km
Hokkaido, Japan

2 SOD eP 23 06 47

3 NUR iP 03 23 01.2 1.3 226.4
i 04.0
i 20.4
iPP 24 06.7
i 25 23.7
eS 28 16
KJN iP 03 23 10.8 U 1.0 63.2
i 13.8
iPP 24 13.8
eS 28 27
i 29 48.3
OUL iP 03 23 21.5
i 25.1
ePP 24 38
SOD iP 03 23 33.1 U
i 37.3
i 24 30.2
i 25 19.9
KEV iP 03 23 46.9 U 0.9 52.1
i 50.0
i 58.3
ePP 25 06
eS 29 32
H: 03 16 38.1
37.1 N, 57.9 E, 11 km
Iran-USSR border

3 KJN iP 05 20 38.6
H: 05 09 41.5
36.4 N, 143.1 E, depth N
Honshu, Japan

3 OUL eP 07 51 46
H: 07 41 19.7
51.2 N, 172.7 W, depth N
Andreanof Islands

January				T	A	January				T	A	
3	NUR	eP	11 42 46			SOD	eP	01 46 06				
3	NUR	iP	13 39 04.0 U	1.0	225.4	H:	01 32 56.8					
	KJN	iP	13 38 38.7	1.0	91.6		1.1 N, 125.9 E, depth N					
		i	42.4				Molucca Passage					
		i	55.2			5	KJN	eP	07 41 49			
		iPcP	39 13.7				i	56.4				
	OUL	iP	13 38 34.2				OUL	eP	07 41 53			
		i	40.0				i	42 03.5				
	SOD	iP	13 38 18.8 U				SOD	iP	07 41 51.6			
	KEV	iP	13 38 02.8	1.1	35.7		KEV	eS	07 52 24			
		i	12.1				H:	07 28 55.8				
		iPP	40 17.1				4.1 N, 125.6 E, 59 km					
		eS	46 00				Talau Islands					
		eSS	50 00			5	KJN	eP	10 05 43			
	H:	13 28 12.8					H:	09 56 41.1				
		51.2 N, 179.4 W, 29 km					28.0 N, 85.2 E, depth N					
		Andreanof Islands					Nepal					
3	KJN	iP	19 23 01.8			5	NUR	iP	13 15 20.3 U	0.5	19.4	
	OUL	eP	19 23 07				KJN	iP	13 14 56.5 U	0.7	12.3	
	H:	19 10 04.9					OUL	iP	13 14 54.9			
		6.3 S, 104.6 E, depth N					SOD	iP	13 14 42.3 U			
		Sunda Strait					KEV	iP	13 14 30.1	0.8	21.6	
4	KJN	iP	06 14 22.4	0.8	12.3		H:	13 05 48.8				
	i	31.0					48.4 N, 146.1 E, 466 km					
	SOD	eP	06 14 13				Sea of Okhotsk					
	H:	06 02 26.3				5	NUR	eP	13 41 40			
		15.5 N, 121.9 E, depth N					e	42 04				
		Luzon, P.I.					iPKP	45 21.4	0.8	119.9		
4	NUR	iP	13 17 30.0	0.7	13.9		i	24.8				
4	NUR	iP	16 17 13.1	0.9	29.5		ipPKP	36.3				
	KJN	iP	16 16 48.8 U	0.9	25.9		i	46 15.0				
	OUL	iP	16 16 41.3				ePP	31				
	SOD	iP	16 16 25.1 U				ePPP	49 04				
	KEV	iP	16 16 07.2	0.8	14.4		e	50 32				
	H:	16 06 58.9					eSKS	52 12				
		57.9 N, 153.9 W, 61 km					e	36				
		Kodiak Island					eS	54 00				
4	KJN	iP	22 50 27.1	1.0	32.7		ePKKP	55 59				
	i	41.5					i	56 07.7				
	OUL	iP	22 50 29.8				ePS	20				
	SOD	eP	22 50 29				ePPS	57 48				
	H:	22 36 47.9					eSS	14 02 32				
		6.8 S, 129.8 E, 107 km					e	05 24				
		Banda Sea					e	06 30				
5	NUR	eP	01 46 19				LZ		22	72.9u		
	KJN	iP	01 46 07.7				LN		22	38.9u		
	OUL	eP	01 46 10				LE		22	47.0u		
		cont.				5	KJN	eP	13 41 22			
							i	37.4				
							iPKP	45 16.0 U	1.0	54.5		
								cont.				

January

January

			T	Δ				T	Δ
	ipPKP	29.3			KEV eP	16 27 36			
	iPP	46 12.2			H: 16 14 30.4				
	i	35.4			1.6 N, 126.6 E, depth N				
	eSKS	52 01			Molucca Passage				
	e	17							
	eS	53 21			5 KJN iP	17 04 27.9	0.8	12.3	
	ipPKP	56 05.9			ePP	08 35			
	i	10.2			OUL eP	17 04 32			
OUL	eP	13 41 25			SOD eP	17 04 30			
	i	42.6			H: 16 50 42.8				
	e	45 04			8.9 S, 123.5 E, 27 km				
	ipPKP	15.0			Flores Island				
	ipPKP	29.7							
	iPP	46 17.4			5 OUL eP	19 01 13			
	ePKKP	55 57			SOD iP	19 01 13.1			
	e	56 11			KEV iP	19 01 13.8			
SOD	eP	13 41 12			H: 18 51 23.3				
	e	42			26.6 N, 96.7 E, 53 km				
	e	44 50			Burma				
	ipPKP	45 12.5							
	i	29.3			6 NUR iP	05 58 03.0 D	1.0	36.0	
	ePP	46 00			KJN iP	05 57 38.3	1.0	17.4	
	eSKS	51 52			i	49.1			
	ePS	55 42			OUL iP	05 57 31.5			
	ePKKP	59			SOD iP	05 57 16.2			
	i	56 18.4			i	26.5			
	i	39.1			KEV eP	05 56 59			
	eSS	14 02 04			i	57 09.2			
KEV	eP	13 41 08			H: 05 47 17.6				
	e	24			53.8 N, 163.5 W, 27 km				
	ipPKP	45 10.8			Unimak Island				
	i	30.2							
	ePP	48			6 KJN iP	06 59 16.1 D	1.0	17.4	
	e	46 08			OUL iP	06 59 17.3			
	i	48 10.8			SOD iP	06 59 10.5			
	e	49 28			KEV eP	06 59 06			
	eSKS	51 48			H: 06 46 18.2				
	e	52 20			11.8 N, 143.1 E, depth N				
	ePS	55 20			South of Mariana Islands				
	eSS	14 01 16							
	eSSS	05 48			6 NUR iP	07 08 58.0			
	eLR	14 19.1			KJN iP	07 08 41.1	0.8	13.8	
	H: 13 26 39.9				SOD iP	07 08 20.3			
	8.0 S, 158.9 E, 47 km								
	Solomon Islands				6 NUR iP	07 46 33.2	1.2	37.1	
5	NUR eP	16 27 50							
	i	57.0			6 NUR ePKP	12 47 30			
	KJN iP	16 27 38.9 D	0.7	8.2	iSKP	50 09.0			
	OUL iP	16 27 41.3			KJN iPKP	12 47 25.1			
	SOD eP	16 27 38			iSKP	49 58.0			
		cont.			OUL ePKP	12 47 22			
						cont.			

January

January

					T	Δ
	eSKP	49	56			
SOD	ePKP	12	47	26		
	iSKP	49	49.7			
H: 12 29 12.5						
22.5 S, 179.2 E, 586 km						
South of Fiji Islands						
6	NUR	iPKP	15	49	54.1 U	1.0 230.0
		i			56.3	
		i			50 27.0	
		i			51 13.3	
KJN	iPKP	15	49	44.4 U	1.1	43.2
		i			51.8	
OUL	iPKP	15	49	41.6		
		i			43.9	
SOD	ePKP	15	49	36		
KEV	ePKP	15	49	32		
H: 15 30 29.7						
30.2 S, 178.0 W, 137 km						
Kermadec Islands						
6	NUR	iPKP	15	57	54.1 U	0.8 187.2
		i			55.9	
		i			58 02.3	
		i			17.1	
		i			59 11.3	
	ePP				28	
	i	16	00	34.0		
	e			02 16		
	eSKS			05 00		
	e			06 28		
	ePS			09 16		
	ePPS			10 40		
	e			11 40		
	eSS			16 28		
	eSSS			20 28		
	eSKPP			22 01		
	eLR	16		36.5		
	LZ				22	60.3u
	LN				22	27.8u
	LE				22	41.4u
KJN	iPKP	15	57	46.9	1.0	116.6
	i			49.0		
	i			57.1		
	i			58 10.2		
	ePP			51		
	ePKKP	16	08	07		
OUL	iPKP	15	57	45.5		
	i			48.0		
SOD	iPKP	15	57	44.7 U		
	i			53.3		
	ePP			58 44		
	eSKKS	16	05	54		

cont.

					T	Δ
	ePKKP	08	10			
	ePS			34		
KEV	iPKP	15	57	41.8	1.0	38.0
	i			49.6		
	ePP			58 40		
	e	16	00	00		
	e			01 08		
	e			03 20		
	eSKS			04 36		
	e			05 16		
	eS			44		
	ePS			08 12		
	e			10 48		
	eSS			14 32		
	eSSS			19 00		
	eLR	16		33.0		
H: 15 39 00.9						
10.5 S, 164.5 E, 32 km						
Santa Cruz Islands						
6	NUR	ePKP	17	25	15	
	OUL	ePKP	17	25	02	
H: 17 06 15.8						
10.9 S, 164.4 E, depth N						
Santa Cruz Islands						
6	NUR	iPKP	17	52	32.8	1.0 32.0
		i			41.3	
KJN	iPKP	17	52	27.8		
OUL	iPKP	17	52	25.5		
SOD	ePKP	17	52	27		
H: 17 33 40.5						
10.7 S, 164.4 E, depth N						
Santa Cruz Islands						
6	NUR	iPKP	21	09	42.2 U	0.7 45.2
		i			56.3	
KJN	iPKP	21	09	29.9		
OUL	iPKP	21	09	31.6		
SOD	ePKP	21	09	24		
H: 20 50 24.6						
30.2 S, 178.2 W, 189 km						
Kermadec Islands						
6	NUR	iP	22	07	42.0	
KJN	eP			22 08 25		
	i			28.7		
	i			52.3		
OUL	eP			22 08 29		
SOD	iP			22 08 50.4		
H: 22 03 24.7						
44.1 N, 10.7 E, 7 km						
Northern Italy						

January				January			
		T	A			T	A
	OUL eP	16 22 25				ePPS	05 00 52
	H:	16 17 31.1				eSS	06 28
		44.6 N, 12.0 E, 11 km				H:	04 26 26.8
		Northern Italy					28.4 S, 177.0 W, 68 km
10	NUR iP	16 37 42.2					Kermadec Islands
	iS	41 05.8			11	NUR iPKP	05 07 11.7
	KJN iP	16 38 19.3	0.9	11.6		i	25.1
	i	42.3				KJN ePKP	05 07 07
	OUL iP	16 38 27.1				OUL ePKP	05 07 04
	i	52.3				H:	04 47 42.7
	eS	42 31					28.5 S, 176.8 W, 68 km
	SOD iP	16 38 47.5					Kermadec Islands
	i	39 13.0			11	NUR iPKP	05 22 23.8
	H:	16 33 14.5				i	33.0
		41.6 N, 32.6 E, 18 km				i	23 02.3
		Turkey				KJN e	05 22 25
10	NUR iPKP	17 28 37.8	0.8	8.5		OUL e	05 22 30
	OUL iPKP	17 28 30.3				H:	05 02 55.9
	H:	17 09 45.0					28.5 S, 176.7 W, 76 km
		10.7 S, 164.4 E, depth N					Kermadec Islands
		Santa Cruz Islands			11	NUR ePKP	06 45 47
10	NUR eP	23 22 59				eSKP	48 25
	KJN iP	23 23 18.0	1.0	21.8		KJN ePKP	06 45 37
	OUL iP	23 23 28.5				eSKP	48 12
	i	34.3				OUL ePKP	06 45 38
	SOD iP	23 23 45.2				eSKP	48 10
	H:	23 16 37.2				H:	06 27 29.0
		32.5 N, 48.7 E, 62 km					17.7 S, 178.8 W, 529 km
		Western Iran					Fiji Islands
11	NUR eP	02 43 52			11	NUR eP	10 26 48
11	NUR eP	03 39 49				KJN eP	10 27 27
11	NUR iPKP	04 45 55.0 U	1.0	131.3		H:	10 21 51.9
	i	56.8					38.4 N, 20.1 E, depth N
	i	46 08.4					Greece
	e	54 44			11	NUR iP	12 10 35.3
	e	58 06				i	36.7
	eSS	05 07 58				KJN iP	12 10 55.8 U
	e	09 40				OUL eP	12 10 56
	eSSS	13 20				SOD iP	12 11 08.4
	KJN ePKP	04 45 43				i	13.2
	i	51.5				H:	11 58 46.8
	OUL ePKP	04 45 47					10.2 S, 13.2 W, depth N
	i	56.6					Ascension Island
	SOD ePKP	04 45 46			11	NUR iP	23 13 20.8
	KEV ePP	04 48 20				KJN iP	23 13 09.8 D
	ePKS	49 24				OUL eP	23 13 09
	e	56 58				SOD eP	23 13 06
	e	58 24					
		cont.					

January

January

		T	A			T	A
11	KJN eP 23 58 34 SOD eP 23 58 25 H: 23 48 02.2 31.1 N, 138.2 E, 469 km South of Honshu, Japan			13	NUR iP 08 02 33.6 KJN eP 08 03 06 OUL iP 08 03 14.3 SOD iP 08 03 35.7 H: 07 57 07.0 34.7 N, 25.2 E, 47 km Crete		
12	NUR ePKP 09 26 16 H: 09 07 24.0 10.5 S, 164.3 E, 47 km Santa Cruz Islands			13	NUR iP 09 13 45.2 U 0.8 17.3 i 54.0 KJN iP 09 13 39.1 OUL iP 09 13 38.3 H: 08 55 03.9 8.0 S, 158.9 E, 48 km (D) Solomon Islands		
13	NUR iP 03 12 59.1 U 0.6 27.5 KJN ePKP 03 12 51 OUL iP 03 12 47.6 i 51.5 H: 02 53 22.3 30.5 S, 177.8 W, depth N Kermadec Islands			13	KJN eP 10 20 37 H: 10 08 23.6 12.6 N, 122.9 E, 24 km Luzon, P.I.		
13	NUR eP 05 49 31 i 33.8 KJN iP 05 49 21.5 U 0.8 20.8 OUL iP 05 49 24.5 SOD iP 05 49 21.6 U KEV iP 05 49 18.6 H: 05 37 30.0 13.7 N, 120.6 E, 121 km Mindoro, P.I.			13	KJN eP 10 51 26 OUL eP 10 51 36 H: 10 39 40.7 5.7 S, 68.3 E, depth N Chagos Archipelago		
13	NUR iP 05 51 34.7 0.8 20.2 i 52 19.8 KJN iP 05 52 08.2 iPcP 55 37.6 OUL iP 05 52 15.7 iPcP 55 39.0 SOD iP 05 52 37.5 ePcP 55 45 H: 05 46 41.1 38.3 N, 22.6 E, 51 km Greece			13	KJN iP 12 43 06.3 i 16.0 SOD eP 12 43 05 H: 12 31 30.7 19.3 N, 120.8 E, depth N Philippine Islands		
13	NUR e 06 57 16 eSS 07 14 48 KEV ePP 06 57 40 ePKS 58 50 e 07 04 50 ePS 07 44 e 14 40 eSS 15 08 e 17 32 H: 06 36 37.0 37.1 S, 73.6 W, depth N Central Chile			13	KJN e 18 06 40 eSg 45 OUL ePn 18 05 34 iSg 06 09.4 SOD ePg 18 05 07 eSg 17 KEV e 18 06 01 eSg 03 Helsinki: H: 18 04 54 67½ N, 25 E Northern Finland		
				14	NUR iP 16 13 04.3 U 0.7 23.2 KJN iP 16 12 43.6 U 0.8 53.0 OUL iP 16 12 43.0 SOD iP 16 12 32.7 U cont.		

January

January

				T	Δ					T	Δ	
	KEV	iP	16 12 22.7	0.8	25.0		SOD	eP	08 51 12			
			H: 16 02 00.7					i	17.7			
			37.5 N, 141.5 E, 60 km					iS	55 08.7			
			Honshu, Japan				KEV	iP	08 51 35.0	0.9	30.2	
								i	52.8			
14	NUR	i	21 43 57.7					i	52 07.0			
	KJN	ePKP	21 43 44				H:	08 46 29.4				
	SOD	ePKP	21 43 03					45.6 N, 26.4 E, 135 km (D)				
			H: 21 24 56.5					Rumania				
			31.6 S, 178.8 W, 395 km				15	NUR	eS	13 23 28		
			Kermadec Islands					eSSS	33 48			
14	NUR	iP	23 17 25.8	1.0	200.0		KJN	eP	13 12 21			
		i	32.0	0.9	428.4		SOD	iP	13 12 20.4			
		i	18 38.0					H:	12 59 06.7			
		e	19 20					3.2 S, 118.9 E, depth N				
		e	20 24					Celebes				
		ePcP	21 10				15	NUR	iP	19 41 57.1	0.8	14.4
		eS	36					KJN	iP	19 41 43.1	0.9	17.0
		LZ		20	35.3u			OUL	iP	19 41 35.3		
		LN		18	10.3u			SOD	iP	19 41 24.5		
		LE		20	26.4u			H:	19 30 00.0			
	KJN	iP	23 17 56.6	1.1	64.8			37.2 N, 116.2 W, 0 km				
	OUL	iP	23 18 06.0					Southern Nevada				
		i	13.4				15	KJN	iP	22 22 04.0	1.0	14.2
	SOD	iP	23 18 26.6					OUL	eP	22 22 06		
		i	37.2					SOD	iP	22 22 02.6		
		ePP	19 18					H:	22 51 40.0			
		iScP	25 13.8					7.2 S, 107.0 E, depth N				
	KEV	iP	23 18 48.0	1.0	49.2			Java				
		i	56.0				15	KJN	eP	23 04 48		
		i	19 24.2					H:	22 51 40.0			
		iPP	43.2					7.2 S, 107.0 E, depth N				
		ePPP	20 12					Java				
		eS	24 04				16	NUR	iP	07 26 29.0	0.8	20.2
		eSS	25 40					KJN	iP	07 26 26.4	0.8	15.4
		eLR	23 28.0					OUL	iP	07 26 32.5		
		LZ		18	25.7u			SOD	iP	07 26 34.3		
		LN		18	14.0u			H:	07 14 12.8			
		LE		18	13.3u			0.5 N, 98.7 E, depth N				
			H: 23 12 07.9					Northern Sumatra				
			36.2 N, 29.2 E, depth N									
			Turkey									
15	NUR	iP	08 49 51.0	1.0	90.0		16	NUR	iP	09 09 39.0		
		i	50 08.3									
		i	24.4									
		i	51 49.8				16	SOD	eP	10 00 40		
		iS	52 24.7									
		i	45.6									
	KJN	eS	08 53 47				16	KJN	eP	10 43 21		
		i	54 08.3					H:	10 30 12.1			
	OUL	iP	08 50 46.4					2.2 N, 126.6 E, depth N				
			cont.					Molucca Passage				

January				January			
	T	A		T	A		
16	KJN ePKP	11 25 55		17	NUR eP	08 37 28	
	H:	11 06 35.7			H:	08 26 54.8	
		23.6 S, 176.1 W, 45 km				47.7 N, 154.0 E, depth N	
		South of Fiji Islands				Kurile Islands	
16	KJN eP	14 52 48		17	NUR iP	21 12 20.2	0.9 13.4
	eS	54 51			KJN iP	21 12 09.8	0.9 28.6
	OUL eP	14 52 33			OUL iP	21 12 12.8	
	eS	54 27			SOD eP	21 12 09	
	SOD eP	14 52 03			i	21.8	
	eS	53 33			H:	20 59 35.7	
	KEV eP	14 51 34				8.3 N, 124.1 E, 41 km	
	eS	52 39				Mindanao, P.I.	
16	NUR eP	15 04 24		18	NUR iP	03 21 19.3 U	0.7 38.7
	OUL eP	15 03 55			ipPKP	55.3	
	SOD iP	15 03 41.1 U			e	23 31	
	H:	14 53 58.0			ePKS	24 54	
		50.6 N, 159.9 E, 50 km (G)			e	29 40	
		Kurile Islands			ePKKP	31 06	
16	NUR iP	15 32 11.2	0.7 19.4		ePS	33 32	
	i	20.6			eSS	39 28	
	KJN iP	15 31 53.3	0.6 22.6		eSSS	44 16	
	OUL iP	15 31 55.1			KJN iP	03 21 26.4 U	0.7 83.6
	SOD iP	15 31 48.5			iSKP	24 32.2	
	KEV eP	15 31 42			OUL iP	03 21 27.0	
	H:	15 20 42.6			epPKP	22 01	
		27.6 N, 129.2 E, 38 km			iSKP	24 33.1	
		Ryukyu Islands			SOD iP	03 21 30.9 U	
16	NUR eP	15 46 08			ipPKP	22 05.1	
	KJN iP	15 45 46.3	0.8 18.5		ePP	23 46	
	OUL iP	15 45 45.6			epPP	24 18	
	SOD iP	15 45 34.7			iSKP	40.9	
	H:	15 35 15.5			KEV iP	03 21 36.1 U	
		40.1 N, 142.3 E, 45 km (D)			ePP	23 58	
		Honshu, Japan			eSKP	24 49	
16	NUR iP	17 19 28.9			iPKS	55.6	
	KJN e	17 18 50			esPKS	25 32	
	ipP	19 16.8			e	30 36	
	OUL iP	17 18 44.9			eSP	34 08	
	ipP	19 18.0			eSPP	35 40	
	SOD eP	17 18 37			e	36 40	
	epP	19 12			eSS	41 20	
	KEV epP	17 19 05			e	43 40	
	H:	17 06 39.8			eSSS	46 28	
		20.8 N, 144.9 E, 165 km			H:	03 02 38.7	
		Mariana Islands				56.8 S, 26.8 W, 141 km (D)	
17	NUR eP	06 15 22		18	KJN iP	04 03 06.2	1.2 22.4
	KJN iP	06 15 41.0			OUL eP	04 03 09	
	SOD eP	06 16 21			SOD iP	04 03 07.8	
					H:	03 49 55.5	
						3.0 S, 118.9 E, depth N	
						Celebes	

January

January

January				January			
		T	A			T	A
18	OUL eP	04	09 01		ipP	12	21.9
	SOD iP	04	08 56.8		esP		44
	H: 03 55		43.8		iPP	13	27.0
	3.0 S, 118.9 E, depth N				ePPP	14	52
	Celebes				iS	18	57.0
					e	20	00
18	NUR iP	22	44 07.6		eScS		44
	OUL eP	22	44 30		e	21	20
	SOD iP	22	44 43.8		eP'P'	41	25
	KEV eP	22	44 57		H: 07 02 04.4		
					45.0 N, 143.2 E, 204 km		
					Hokkaido, Japan		
19	KJN eP	03	34 05				
	SOD eP	03	34 04				
	H: 03 22		29.0	19	NUR eP	07	39 21
	19.3 N, 121.2 E, depth N				KJN iP	07	39 12.0
	Philippine Islands				OUL iP	07	39 14.0
					SOD iP	07	39 11.0 U
19	NUR iP	07	12 13.7		KEV iP	07	39 08.4
	i		14.4		H: 07 26 05.9		
	i		40.8		1.9 N, 126.7 E, 39 km		
	epP	13	12		Molucca Passage		
	esP		34	19	KJN eP	17	32 25
	ePP	14	35		OUL eP	17	32 26
	epPP	15	16		SOD eP	17	32 24
	esPP		52		H: 17 19 23.1		
	esPPP	17	24		1.7 N, 127.1 E, 86 km		
	eS	20	24		Halmahera		
	eScS	21	28	19	NUR iP	18	15 11.2
	esS		39		KJN iP	18	14 48.4
	eSS	24	28		OUL eP	18	14 51
	eP'P'	40	57		SOD eP	18	14 38
	i	41	09.6		KEV iP	18	14 24.7
	KJN iP	07	11 50.8 U		H: 18 04 24.7		
	iPcP	12	33.5		41.1 N, 142.6 E, 55 km		
	i	16	59.0		Hokkaido, Japan		
	iS	19	42.5	19	NUR eP	19	06 24
	iScS	21	15.0		e	07	27
	eP'P'	40	52		iPKP	09	44.2
	e	41	10		i		49.2
	OUL iP	07	11 48.9		ipPKP	10	28.8
	iS	19	41.9		i		59.5
	iScS	21	15.1		ePP	11	38
	eP'P'	40	57		iSKP	13	05.2
	SOD iP	07	11 37.2 U		ePKS		26
	ePcP	12	28		eSKS	16	36
	esP	13	00		esSKS	17	26
	iS	19	19.5		e	18	20
	i		28.5		e		26
	eScS	21	12		eSP	21	24
	eP'P'	41	05		i	22	14.2
	i		23.4				cont.
	KEV iP	07	11 25.2				
	i		26.5				
			cont.				

January

January

			T	A		T	A
	eSKKP			51		ePS	50
	e	24		52		i	22 14.6
	eSS	28		44		e	23 04
KJN	epP	19	06	51		iSKKP	16.0
	iPKP	09		32.3		i	35.7
	i			37.7		eSS	27 02
	ipPKP	10		21.8		e	31 00
	iPP	11		18.8		eSSS	32 00
	ipPP			53.2		H: 18 50 52.1	
	iSKP	12		43.4		14.9 S, 167.2 E, 112 km	
	ePKS			57		New Hebrides Islands	
	iSKS	16		27.3	20	NUR iPKP	01 22 14.2
	esSKS	18		05		i	24.5
	e			15		H: 01 02 45.7	
	e	19		10		28.7 S, 176.8 W, 73 km	
	iPKKP			26.3		Kermadec Islands	
	i	22		31.2			
	iSKKP			55.2	20	NUR iP	04 18 25.0
OUL	eP	19	06	10		KJN iP	04 18 05.4 U
	epP			49		i	14.2
	ePKP	09		30		OUL iP	04 18 05.4
	i			36.7		SOD iP	04 17 56.8
	ipPKP	10		20.1		H: 04 07 56.8	
	ePKKP	19		26		35.5 N, 135.4 E, 354 km	
	e	22		14		Southern Honshu, Japan	
	iSKKP	23		04.6	20	NUR ePKP	05 05 05
SOD	e	19	06	24		H: 04 46 10.2	
	esP			45		10.2 S, 164.5 E, depth N	
	iPKP	09		33.3		Santa Cruz Islands	
	i			43.3	20	NUR iP	05 50 38.8
	epPKP	10		18		KJN iP	05 50 16.4
	ePP	11		18		OUL iP	05 50 07.6
	eSKS	16		22		SOD iP	05 49 52.5
	eSKKS	17		30		H: 05 40 12.8	
	eS	18		30		56.5 N, 152.6 W, 38 km	
	ePKKP	19		32		Kodiak Island	
	epPS	21		20			
	ePPS	22		36	0.9	139.4	20
	eSKKP	23		13		NUR iPKP	12 43 32.1
KEV	eP	19	06	08		i	39.3
	e			24		ePP	45 06
	iPKP	09		30.7		ePPP	47 32
	i			36.9		e	48 08
	ipPKP	10		14.5		eSKS	50 36
	iPP			51.0		e	52 04
	isPP	11		36.8		ePS	54 52
	eSKP	12		36		e	56 44
	ePPP	14		04		eSS	13 01 40
	eSKS	16		04		eSSS	06 04
	eSKKS	17		04			
	iPKKP	19		40.0			
	e	20		20			
				cont.			

cont.

January

January

					T	Δ
KJN	iPKP	12 43	24.7			
	i		32.3			
OUL	iPKP	12 43	24.1			
SOD	ePKP	12 43	20			
	e		34			
KEV	ePP	12 44	12			
	ePS		53 40			
	eSS	13 00	00			
	eSSS		04 28			
	eLR	13 18.5				
	LZ			22	6.3u	
	LN			20	2.1u	
	LE			22	2.6u	
H: 12 24 35.2						
10.3 S, 164.6 E, 4 km						
Santa Cruz Islands						
20	NUR	iP	14 30 23.7 U	1.2	698.3	
		iPcP	31 04.9			
		i	47.4			
		iPP	32 37.3			
		i	33 15.0			
		eS	38 36			
		e	43 04			
KJN	iP	14 29	57.0 U			
	i	30	15.0			
	iPcP		51.5			
	ePP	31	58			
OUL	iP	14 29	51.9			
SOD	iP	14 29	37.2 U			
	i		50.7			
	iPP	31	35.0			
KEV	iP	14 29	20.5 U	1.1	163.1	
	eS		36 32			
H: 14 20 11.5						
54.9 N, 166.0 E, 23 km						
Komandorsky Islands						
20	NUR	eP	23 21 21			
	OUL	eP	23 20 57			
	SOD	iP	23 20 47.7			
H: 23 10 16.6						
39.4 N, 144.7 E, depth N						
Honshu, Japan						
21	KJN	iP	00 42 39.2	0.8	15.4	
		e	45 35			
	SOD	iP	00 42 38.1			
		i	45 33.8			

					T	Δ
21	NUR	iP	02 00 07.8	1.3	69.9	
		ipP	26.0			
		ePP	03 49			
		eS	10 48			
		eSS	15 36			
KJN	iP	02 00	05.3 U	1.3	143.2	
	ipP		23.5			
	iS	10	45.0			
	ipS	11	11.0			
OUL	iP	02 00	10.3			
	ipP		28.5			
SOD	iP	02 00	11.3 U			
	ipP		29.2			
	e		41			
Moscow:						
H: 01 47 18						
4.4 S, 103.3 E						
Indonesia						
21	KJN	iP	02 01 10.5			
	OUL	eP	02 01 12			
H: 01 47 29.6						
7.3 S, 128.3 E, 91 km						
Banda Sea						
21	NUR	iP	04 25 46.2	0.8	19.7	
	KJN	eP	04 25 18			
21	NUR	iP	04 27 14.2	1.2	22.3	
		i	27.0			
	KJN	eP	04 26 53			
21	NUR	eP	07 22 49			
21	NUR	iP	08 06 08.6	1.1	23.3	
	SOD	eP	08 05 50			
21	NUR	eP	08 15 14			
		eS	22 52			
		eSS	26 36			
	KJN	e	08 15 27			
	OUL	iP	08 15 15.6			
	SOD	eP	08 15 20			
		i	26.2			
	KEV	eP	08 15 22			
		eS	23 18			
		eSS	27 08			
H: 08 05 40.1						
28.7 N, 43.6 W, depth N						
North Atlantic Ridge						

January				T	A	January				T	A
21	NUR	eP	14 44 09	0.7	20.2	22	NUR	iP	00 52 30.4 U	1.0	240.0
		i	11.0					i	36.7		
		i	41.8					iPcP	53 16.4		
		i	45 14.0					i	24.2		
	KJN	eP	14 44 09	1.0	48.0			e	55 19		
		i	10.9					eS	01 00 36		
		i	15.4					eSS	04 20		
		iPP	45 21.8				KJN	iP	00 52 03.2 U	1.0	172.2
	OUL	iP	14 44 19.2					iPP	54 06.2		
	SOD	eP	14 44 27				OUL	iP	00 51 58.5		
		ePP	45 50					i	52 05.3		
	KEV	eP	14 44 35				SOD	iP	00 51 43.3 U		
								iPcP	52 52.3		
			H: 14 37 15.1				KEV	iP	00 51 27.4 U	0.8	46.5
			38.3 N, 69.7 E, 52 km					i	45.0		
			Tadzhik SSR					eS	58 32		
								e	01 02 48		
21	OUL	ePKP	20 57 15								
			H: 20 38 00.7						H: 00 42 30.0		
			21.9 S, 169.9 E, 33 km						55.9 N, 163.0 E, depth N		
			Loyalty Islands						Kamchatka		
21	NUR	iP	21 13 13.6	0.8	14.4	22	NUR	iP	03 27 33.4 U	0.8	28.8
		i	19.4					i	41.5		
		eS	15 37				KJN	iP	03 27 06.2 U	0.8	24.6
		e	18 15					i	15.2		
	KJN	iP	21 12 33.2	0.5	8.8		OUL	iP	03 27 02.1		
		eS	14 27				SOD	iP	03 26 46.5 U		
		i	33.8					i	51.7		
	OUL	iP	21 12 17.4				KEV	iP	03 26 30.5	0.9	24.1
		eS	13 57								
	SOD	eP	21 11 50						H: 03 17 33.3		
		eS	13 12						55.9 N, 163.0 E, depth N		
	KEV	eP	21 11 24						Kamchatka		
		i	56.0			22	NUR	iP	04 04 31.7	0.9	28.6
		iS	12 25.2				KJN	iP	04 04 04.0 U	0.7	11.0
							OUL	iP	04 03 59.7		
			H: 21 09 55.3				SOD	iP	04 03 44.2 U		
			73.7 N, 13.7 E, 7 km				KEV	eP	04 03 28		
			Norwegian Sea					e	42		
									H: 03 54 29.9		
									55.9 N, 163.1 E, 25 km		
									Kamchatka		
21	NUR	iP	23 22 11.1 U	0.9	45.4	22	NUR	eP	04 23 18		
		i	21.0				KJN	eP	04 23 17		
		e	23 31						H: 04 16 11.9		
	KJN	iP	23 21 44.0 U	0.8	30.8				35.7 N, 70.0 E, 141 km		
		e	22 19						Hindu Kush		
	OUL	iP	23 21 39.6								
	SOD	iP	23 21 24.6								
		e	22 10								
	KEV	eP	23 21 08			22	NUR	iP	17 25 08.7	0.6	12.5
		i	25.5					e	28		
								ePP	27 20		
			H: 23 12 10.0					eS	33 36		
			55.9 N, 163.0 E, 23 km								
			Kamchatka								

cont.

January

T A

KEV ePKP 02 50 53
i 51 05.0
ePP 53 22
iSKP 33.4
iPKS 54 29.2
iSKS 57 18.1
e 59 16
e 03 00 40
e 03 20
eSKKP 25
e 09 48
eSS 56
e 12 12
esSS 13 36

H: 02 33 03.5
21.9 S, 179.6 W, 595 km (D)
Fiji Islands

24 NUR iP 03 27 25.8 0.9 16.4
KJN iP 03 27 09.2 0.9 17.9
OUL eP 03 27 06
SOD iP 03 26 58.0

24 NUR eP 05 20 34

24 NUR iP 17 59 12.0
KJN iP 17 59 00.9 U 0.7 4.8

24 NUR eP 19 55 16
KJN iP 19 54 58.8
OUL eP 19 54 59
SOD eP 19 54 52
KEV eP 19 54 46
H: 19 43 57.5
30.0 N, 130.0 E, depth N
Kyushu, Japan

25 NUR iP 05 32 37.9 1.2 35.4
i 48.7
e 34 13
e 35 40
ePP 36 32
eSKS 43 08
eS 44
ePS 44 56
KJN iP 05 32 28.8 U
i 35 32.8
iPP 36 11.0
e 40 04
eSKS 42 58
eS 43 32
ePKKP 49 38
OUL eP 05 32 31
i 32.6
cont.

January

T A

SOD iP 05 32 28.6
i 35.0
ePS 44 36
ePKKP 49 30
KEV iP 05 32 26.0 1.2 105.1
i 27.6
i 35.5
e 33 25
i 35 37.0
ePP 36 08
eSKS 42 48
eS 43 20
ePS 44 36
eSS 49 40

H: 05 19 17.1
0.8 N, 126.1 E, 24 km
Molucca Passage

25 NUR iPKP 11 25 35.0 1.0 26.7
i 49.0
KJN iPKP 11 25 23.2 U 1.0 17.4
i 36.2
OUL i 11 25 35.2

H: 11 05 50.6
32.5 S, 178.0 W, 14 km
South of Kermadec Islands

25 NUR iP 12 20 13.2 1.2 40.8
e 21 24
e 54
KJN iP 12 19 45.6 U 1.1 23.0
OUL iP 12 19 42.1
SOD iP 12 19 26.3

H: 12 10 13.3
55.9 N, 162.9 E, depth N
Kamchatka

25 NUR iP 13 25 56.8
KJN iP 13 25 52.5 0.8 16.1
OUL iP 13 25 57.1
SOD eP 13 25 56
H: 13 12 37.9
7.6 S, 109.0 E, 17 km
Java

25 NUR eP 16 02 47
KJN eP 16 02 21
OUL iP 16 02 13.5
epP 32
SOD iP 16 01 57.2
epP 02 15
H: 15 52 47.6
60.1 N, 151.9 W, 68 km (D)
Kenai Peninsula, Alaska

January				T	A	January				T	A
25	NUR	eP	21 03 01			26	NUR	iP	06 19 03.3	0.5	22.1
	KJN	eP	21 03 36				e	21 45			
	OUL	iP	21 03 45.1				KJN	iP	06 18 52.5 D	0.7	30.8
	SOD	eP	21 04 05				ipP	19 04.5			
25	NUR	iP	23 44 28.0				i	30.2			
	ipP		40.2				SOD	iP	06 18 51.5		
	e		46 58				ipP	19 03.0			
	eS		52 32				KEV	eP	06 18 49		
	KJN	eP	23 44 22				e	19 15			
	ipP		35.3				H: 06 06 05.9				
	ePP		46 34				6.6 N, 127.4 E, 50 km				
	OUL	eP	23 44 28				Philippine Islands				
	ipP		42.0			26	NUR	iP	10 06 16.0 U	0.9	42.4
	i		57.6				ipP		49.0		
	SOD	iP	23 44 29.8				KJN	iP	10 06 13.2	1.0	51.2
	ipP		43.8				ipP		46.0		
	KEV	eP	23 44 32				iPP		07 38.9		
	i		49.4				OUL	iP	10 06 21.8		
	eS		52 44				i		22.6		
	eSS		56 36				iPP		07 54.1		
	H: 23 34 28.4						SOD	iP	10 06 27.6		
	22.9 N, 92.3 E, 50 km (G)						KEV	iP	10 06 34.9	0.8	17.6
	India-East Pakistan border						H: 09 59 12.1				
26	NUR	ePKP	00 12 25				38.2 N, 73.8 E, 138 km				
	e		35				Tadzhik-Sinkiang border				
	KJN	ePKP	00 12 22			26	NUR	ePP	13 44 32		
	i		34.1				KJN	ePKP	13 42 51		
	OUL	ePKP	00 12 31				OUL	ePKP	13 42 52		
	e		43				SOD	ePKP	13 42 52		
	H: 23 52 42.4						H: 13 23 46.9				
	54.4 S, 143.8 E, depth N						56.3 S, 27.2 W, depth N				
	West of Macquarie Island						South Sandwich Islands				
26	NUR	iP	02 32 04.0			26	KJN	eP	14 32 36		
	i		29.4				H: 14 26 17.2				
	i		33 46.8				35.6 N, 6.0 E, 31 km				
	e		37 55				Algeria				
	KJN	eP	02 32 17			26	NUR	iP	15 15 35.4 U	1.1	122.7
	iPP		33 10.2				i		42.7		
	OUL	eP	02 32 27				e		17 12		
	SOD	iP	02 32 41.2				ePP		47		
	e		33 35				ePPP		19 04		
	KEV	iP	02 32 56.8	0.6	10.2		eS		23 45		
	e		33 33				KJN	iP	15 15 08.2 U	1.1	97.2
	iPP		34 10.0				ipP		18.7		
	H: 02 25 55.8						e		16 16		
	36.8 N, 54.5 E, 48 km						ePP		17 12		
	Iran						cont.				

January				T	A	January				T	A
	OUL	iP	15 15 03.9			26	NUR	iP	16 36 15.0 U	1.2	34.7
		i	24.0					i	24.8		
	SOD	iP	15 14 48.7 U				KJN	iP	16 35 48.2 U	0.9	13.4
		ipP	57.5					i	55.3		
	KEV	iP	15 14 32.3				OUL	iP	16 35 44.2		
		i	34.5	0.6	32.0			i	51.0		
		ipP	43.7				SOD	iP	16 35 28.4		
		ePP	16 32					e	36		
		ePPP	17 20				KEV	eP	16 35 12		
		eS	21 48				H:	16 26 13.7			
		e	26 00					55.9 N, 162.9 E, 19 km			
			H: 15 05 32.7					Kamchatka			
			55.8 N, 162.9 E, 16 km								
			Kamchatka								
26	NUR	eP	15 28 46			26	NUR	eP	16 52 04		
		e	56				KJN	iP	16 51 52.1		
	KJN	eP	15 28 18				OUL	eP	16 51 58		
	OUL	iP	15 28 14.7				SOD	eP	16 51 52		
	SOD	eP	15 27 59				H:	16 38 50.7			
			H: 15 18 45.5					1.9 N, 126.5 E, 87 km			
			55.9 N, 163.0 E, depth N					Molucca Passage			
			Kamchatka								
26	NUR	iP	15 51 08.7	0.9	23.6	26	NUR	iP	16 55 15.3 U	0.8	41.9
	KJN	iP	15 50 54.0 D	0.7	42.5		KJN	iP	16 54 48.3 D	0.9	35.7
		ipP	51 31.2				OUL	iP	16 54 43.8		
	OUL	iP	15 50 56.1				SOD	iP	16 54 28.2		
		epP	51 34				KEV	iP	16 54 11.9 D	0.8	14.7
	SOD	iP	15 50 51.2 D					i	33.1		
		ipP	51 29.0				H:	16 45 15.1			
	KEV	iP	15 50 47.0	0.9	32.7			56.0 N, 163.1 E, depth N			
			H: 15 39 58.5					Kamchatka			
			25.1 N, 122.6 E, 146 km								
			Taiwan								
26	NUR	eP	15 54 22			26	NUR	iP	16 58 54.7 U	1.0	46.8
	OUL	eP	15 53 55					i	59 02.9		
	H:	15 44 25.4					KJN	iP	16 58 27.3 U	1.0	39.2
		56.3 N, 162.2 E, depth N						i	38.9		
		Kamchatka					OUL	iP	16 58 23.0		
							SOD	iP	16 58 07.6 U		
							KEV	iP	16 57 51.2	0.8	33.6
								i	58 07.7		
							H:	16 48 52.7			
								55.9 N, 163.0 E, 21 km			
								Kamchatka			
26	NUR	eP	15 59 00	0.7	12.1	26	NUR	eP	21 22 27		
	KJN	iP	15 58 32.2 U	1.0	18.5			e	23 17		
	OUL	iP	15 58 28.4			27	NUR	eP	01 01 52		
	SOD	iP	15 58 13.2			27	NUR	iPKP	03 14 18.9	1.0	84.2
	H:	15 49 00.1						i	37.2		
		55.9 N, 162.9 E, depth N					KJN	ePKP	03 14 11		
		Kamchatka						i	39.4		
26	NUR	eP	16 02 56					i	15 06.5		
									cont.		

January

January

T A

T A

OUL ePKP 03 14 09
H: 02 54 40.2
30.6 S, 177.2 W, depth N
Kermadec Islands

SOD iPKP 10 19 53.0
i 56.8
iSKP 23 21.5
KEV iPKP 10 19 48.8
i 58.2

27 NUR iPKP 03 28 55.6 U 1.2 69.4
i 57.8
KJN iPKP 03 28 40.7
i 29 07.2
OUL ePKP 03 28 42
H: 03 09 16.0
30.6 S, 177.2 W, 24 km
Kermadec Islands

H: 10 01 05.7
30.9 S, 179.7 W, 300 km (G)
Kermadec Islands

27 OUL ePKP 10 24 43
H: 10 06 27.6
15.0 S, 177.5 W, 420 km (G)
Fiji Islands

27 NUR iP 06 44 21.4 0.9 25.1
i 45 20.7
i 43.0
eS 49 28
LZ 20 1.4u
LN 20 1.4u
LE 18 2.4u
KJN iP 06 43 47.2 D 1.0 52.3
ipP 55.0
OUL iP 06 43 40.3
ipP 48.0
i 44 12.9
SOD iP 06 43 20.9
i 26.3
i 44 50.4
i 47 52.1
KEV iP 06 43 00.0 U 0.8 58.8
i 06.8
i 44 05.8
eS 47 08
H: 06 37 57.6
80.8 N, 121.9 E, 37 km
East of Severnaya Zemlya

27 NUR eP 10 43 47
OUL eP 10 43 15
H: 10 33 46.3
55.8 N, 162.8 E, depth N
Kamchatka

27 NUR iP 11 06 37.0 0.8 16.6
i 07 18.2
KJN iP 11 06 36.4
i 07 17.5
OUL iP 11 06 45.0
i 07 25.0
SOD iP 11 06 52.4
H: 10 59 27.2
37.3 N, 71.5 E, 49 km
Afghanistan-USSR border

27 NUR eP 07 19 35
OUL eP 07 19 01
SOD eP 07 18 48
e 53
H: 07 09 34.0
56.1 N, 163.0 E, depth N
Kamchatka

27 KJN eP 12 40 42
OUL iP 12 40 34.2
i 44.2
SOD iP 12 40 35.3

27 NUR iP 13 28 41.7 U 1.0 38.2
i 29 22.3
e 44
ePP 32 28
ePPP 34 28
eSKS 39 12
ePS 41 12
eSS 46 00
e 47 32
eSSS 49 32

27 NUR iPKP 10 20 11.2 D 1.0 315.2
i 48.3
KJN iPKP 10 19 59.5 U 0.8 38.5
ePKS 23 41
OUL iP 10 19 57.9
i 20 00.2
iPP 23 13.1
cont.

LZ 18 11.6u
LN 18 3.1u
LE 18 6.5u
KJN iP 13 28 28.5 U 1.0 54.5
e 39
OUL iP 13 28 30.0
i 34.6
cont.

January				T	A	January				T	A
28	NUR	ePKP	11 47 49			29	NUR	iP	11 34 01.2		
		i	48 00.9				KJN	iP	11 33 46.1 U	0.5	8.8
		eSKP	50 38					i	51.6		
	KJN	iPKP	11 47 53.2				OUL	iP	11 33 48.8		
		eSKP	50 27				SOD	iP	11 33 43.7		
	OUL	iPKP	11 47 51.5					i	49.2		
		eSKP	50 27				H:	11 22 42.1			
	SOD	eSKP	11 50 19					24.6 N, 121.8 E, 77 km			
	H:	11 29 44.7						Taiwan			
		21.9 S, 179.7 W, 640 km (G)									
		Fiji Islands									
28	NUR	iP	13 23 36.5	1.0	15.7	29	NUR	iPKP	18 03 48.3	1.2	43.8
								e	04 22		
28	NUR	eP	17 31 54					ePP	06 33		
	SOD	eP	17 31 25					iPKS	07 19.5		
	H:	17 20 45.4						ePPP	08 36		
		35.5 N, 140.1 E, 67 km						ePPS	18 28		
		Honshu, Japan						eSS	24 20		
								e	26 20		
28	KJN	iP	19 43 24.2					eSSS	29 16		
		i	45.0				KJN	ePKP	18 03 40		
	OUL	eP	19 43 28				OUL	iPKP	18 03 38.6		
	H:	19 30 21.9					SOD	ePKP	18 03 35		
		7.7 S, 106.7 E, 80 km						e	44		
		Java					KEV	iPKP	18 03 31.1	1.2	73.0
								eSKP	06 38		
29	NUR	iP	00 44 05.0					eSS	22 24		
	OUL	eP	00 44 29				H:	17 44 31.1			
	SOD	eP	00 44 53					17.2 S, 171.6 W, depth N			
								Tonga Islands			
29	NUR	iP	04 55 41.7	0.8	19.1						
	OUL	iP	04 55 30.5								
29	NUR	eP	05 04 51			29	NUR	iPKP	19 49 06.1 U	0.7	30.4
							KJN	iPKP	19 48 59.4 U	0.8	20.8
29	NUR	iP	05 29 07.0 U	1.5	43.1		OUL	iPKP	19 48 58.7		
		i	14.1				SOD	ePKP	19 48 49		
	KJN	eP	05 28 41				H:	19 30 26.5			
		i	51.2					11.4 S, 166.4 E, 153 km			
	OUL	iP	05 28 36.5					Santa Cruz Islands			
	SOD	iP	05 28 17.1								
		i	32.2								
	H:	05 19 09.4				30	NUR	iP	02 46 37.7 U	0.9	45.4
		56.0 N, 163.1 E, depth N						i	45.0		
		Kamchatka					KJN	iP	02 46 27.8	0.9	59.8
								e	48		
29	NUR	iP	05 30 09.5				OUL	iP	02 46 31.5		
	OUL	iP	05 29 37.8				SOD	iP	02 46 27.6		
	SOD	eP	05 29 22				H:	02 33 34.1			
		i	34.0					4.1 N, 126.4 E, 68 km			
								Talau Islands			

January				T	A	January				T	A
30	NUR	iP	10 42 43.0	1.6	157.5	30	NUR	eP	15 11 57		
		i	45.8				KJN	iP	15 11 44.0		
		i	49.9				OUL	iP	15 11 35.8		
		i	43 08.8				H: 15 00 00.0				
		e	44 20				37.1 N, 116.0 W, 0 km				
		i	45 58.2				Southern Nevada				
		ePP	46 28								
		e	50 24								
		e	52 48			30	KJN	eP	16 52 49		
		eS	53 40				SOD	eP	16 52 49		
		ePKKP	11 00 23				H: 16 39 58.7				
		eSS	36				5.0 N, 127.1 E, 83 km				
	KJN	iP	10 42 32.0				Philippine Islands				
		i	33.5								
		eSKS	53 06								
		eS	25			30	NUR	iP	17 32 34.5		
		i	47.0					ePP	36 19		
		iSP	54 42.2					eS	43 28		
	OUL	iP	10 42 33.7				KJN	iP	17 32 27.0 D	0.8	20.0
		i	36.5					iPP	36 03.8		
		ePKKP	11 00 17				OUL	iP	17 32 29.0		
	SOD	iP	10 42 30.8				SOD	iP	17 32 26.0 D		
		i	32.9					ipP	42.1		
		i	36.3				KEV	iP	17 32 25.0		
		e	45 20					eSKS	43 00		
		ePP	46 32				H: 17 19 35.0				
		eS	53 20				4.9 N, 127.5 E, 72 km (D)				
		ePS	54 35				Talaud Islands				
		ePKKP	11 00 32								
	KEV	iP	10 42 29.4			30	NUR	iP	18 48 44.3	0.6	15.0
		i	43 06.2				KJN	iP	18 48 35.5 D	0.9	40.2
		ePP	46 16				OUL	iP	18 48 38.6		
		i	44.1					ipP	50 40.1		
		eS	53 12				SOD	iP	18 48 35.5		
		e	31					epP	50 33		
		e	56				KEV	iP	18 48 32.9		
		eSS	58 44				H: 18 36 37.3				
	H: 10 29 40.4						4.0 N, 123.0 E, 521 km				
	4.8 N, 127.4 E, 70 km (G)						Celebes Sea				
	Talaud Islands										
30	NUR	iP	12 51 30.3			30	NUR	iP	21 05 03.7 U	0.7	18.1
	KJN	iP	12 51 21.3	0.8	11.5		KJN	iP	21 04 40.5 U	0.7	15.1
	OUL	iP	12 51 24.4				OUL	iP	21 04 39.5		
	SOD	iP	12 51 19.4				SOD	iP	21 04 28.1		
	KEV	eP	12 51 16				KEV	iP	21 04 16.2		
	H: 12 38 26.6						H: 20 54 13.5				
	4.7 N, 127.7 E, 65 km (G)						42.8 N, 145.3 E, 8 km				
	Talaud Islands						Hokkaido, Japan				

January

January

				T	A					T	A
31	NUR	iP	00 57 24.0	1.4	69.7	31	KJN	eP	05 12 33		
		i	58 09.0					SOD	eP	05 12 30	
		i	01 00 36.2					H: 04 59 32.6			
		ePP	01 12					4.5 N, 128.1 E, depth N			
		ePPP	03 06					North of Halmahera			
		e	04 56								
		e	07 20			31	NUR	iP	09 09 52.5	1.0	20.0
		eSKS	56				KJN	iP	09 09 42.5	0.8	12.3
		eS	08 32				SOD	iP	09 09 41.1		
		eSS	14 16					i	10 15.0		
		e	15 50					H: 08 56 42.8			
		eSSS	18 40					4.3 N, 128.1 E, depth N			
		LZ		20	18.9u			North of Halmahera			
		LN		18	6.2u						
		LE		18	11.6u	31	SOD	iP	11 34 25.2		
KJN	iP	00 57 14.0		1.2	65.4			H: 11 21 26.7			
	i	28.0						4.2 N, 128.1 E, depth N			
	iPP	01 00 52.7						North of Halmahera			
	eSKS	07 43									
	eS	08 07				31	NUR	eP	14 01 34		
	e	32						i	45.0		
OUL	iP	00 57 16.3						iPP	05 21.1		
	i	24.0						eS	12 20		
SOD	iP	00 57 12.8 U						ePS	13 44		
	i	25.5					KJN	iP	14 01 24.7 D	0.7	8.9
	ePP	01 00 58					OUL	iP	14 01 26.2		
	eSKS	07 40					SOD	iP	14 01 23.0 U		
	eS	08 08						i	27.9		
	eSS	13 54						i	44.2		
KEV	iP	00 57 11.0		1.3	90.7		KEV	ePP	14 05 00		
	ePP	01 00 48						ePPP	06 48		
	eSKS	07 36						eS	12 10		
	eS	08 00						eSS	18 26		
	eSP	09 00						H: 13 48 22.2			
	eSS	14 00						4.3 N, 128.1 E, depth N			
	H: 00 44 13.3							North of Halmahera			
	4.2 N, 128.1 E, depth N					31	KJN	eP	14 05 58		
	North of Halmahera						SOD	iP	14 05 51.2 U		
								i	06 02.0		
31	NUR	iP	04 20 22.2 D	0.8	50.4		KEV	eS	14 16 40		
		iPcP	21 04.5				H: 13 52 52.5				
KJN	iP	04 19 56.0 D		0.9	84.8		4.3 N, 128.3 E, depth N				
		iPcP	20 49.9				North of Halmahera				
OUL	iP	04 19 52.6									
		iPcP	20 48.0								
SOD	iP	04 19 38.0				31	NUR	eP	14 45 36		
		iPcP	20 40.2				KJN	iP	14 46 08.7		
KEV	iP	04 19 22.0		0.8	19.1		OUL	iP	14 46 17.3		
		i	25.6				SOD	eP	14 46 38		
	H: 04 10 26.3						H: 14 40 03.8				
	53.5 N, 158.7 E, 145 km (G)						34.3 N, 26.3 E, 34 km				
	Kamchatka						Crete				

January

T A

31 NUR ePKP 15 18 08
i 19.2
iPKS 21 47.0
KJN iPKP 15 18 10.0
i 11.6
OUL iPKP 15 18 10.7
SOD iPKP 15 18 06.2 U
eSKP 21 24
KEV iPKP 15 18 02.0 U 0.7 26.4
H: 14 59 34.3
15.5 S, 175.0 W, 262 km (D)
Tonga Islands

31 NUR eP 15 39 21
KJN eP 15 39 56
H: 15 34 30.9
39.1 N, 20.2 E, depth N
Greece-Albania border

31 NUR eP 15 49 37
KJN iP 15 49 15.1 0.7 10.3
i 24.7
OUL iP 15 49 14.3
i 24.1
SOD eP 15 49 03
i 13.0
H: 15 38 38.8
39.7 N, 143.9 E, 47 km
Honshu, Japan

31 KJN e 20 20 16
OUL iP 20 20 21.5
SOD iP 20 20 10.8
H: 20 07 18.9
4.7 N, 127.4 E, 65 km (G)
Talaud Islands

31 NUR e 20 51 22
KJN eP 20 50 50
e 51 14
SOD eP 20 50 49
H: 20 37 50.5
4.4 N, 128.1 E, depth N
North of Halmahera

January

T A

31 NUR iP 22 35 51.0
KJN iP 22 35 34.3
OUL iP 22 35 34.6
KEV eP 22 35 19
H: 22 24 31.9
27.0 N, 140.5 E, 377 km
Bonin Islands

31 NUR iPKP 23 50 10.9 1.0 39.0
i 13.7 1.0 697.0
i 41.6
ipPKP 51 50.1
i 52 16.0
KJN iPKP 23 50 02.8 D
i 08.3
i 41.5
ePKS 53 43
OUL iPKP 23 50 01.7
SOD iPKP 23 49 56.0 U
i 50 01.1
KEV iPKP 23 49 49.0
i 59.4
iPP 52 54.0
H: 23 31 16.2
32.1 S, 179.6 E, 391 km (D)
South of Kermadec Islands

December 4, 1969

Urmas Luosto
Aili Huovila



PHASE DATA PUNCHED

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17 FEB 1970 Helsinki, Finland
Seism. Bull. 1969

February

February

	T	A		T	A
1	KJN	eP	03 47 40		
	OUL	eP	03 47 40		
	SOD	eP	03 47 31		
	H: 03 35 14.9				
	17.8 N, 145.9 E, 115 km				
	Mariana Islands				
1	KJN	ePKP	04 36 54		
	H: 04 18 45.0				
	21.7 S, 179.3 W, 616 km				
	Fiji Islands				
1	KJN	eP	07 37 33		
	SOD	eP	07 37 33		
	H: 07 24 34.4				
	4.1 N, 128.0 E, depth N				
	North of Halmahera				
1	NUR	iP	07 54 08.9	0.9	22.4
	KJN	iP	07 53 58.9 D	0.6	41.1
		i	54 11.1		
	OUL	iP	07 54 00.3		
	SOD	iP	07 53 57.0		
	KEV	iP	07 53 54.7		
	H: 07 41 22.8				
	9.2 N, 126.4 E, depth N				
	Mindanao, P.I.				
1	NUR	eP	14 48 26		
	OUL	eP	14 48 21		
	SOD	eP	14 48 13		
	H: 14 35 18.9				
	4.7 N, 127.6 E, depth N				
	Talaud Islands				
1	NUR	iP	16 32 25.2		
		eS	43 32		
	KJN	iP	16 32 15.0	1.0	29.4
	OUL	iP	16 32 17.8		
	SOD	iP	16 32 14.4		
		i	32.5		
	KEV	i	16 32 28.5		
		eS	43 04		
	H: 16 19 13.3				
	4.0 N, 128.1 E, depth N				
	North of Halmahera				
1	NUR	eP	16 40 41		
		e	49		
	KJN	eP	16 40 40		
	OUL	eP	16 40 40		
1	NUR	eP	17 07 00		
	cont.				
	SOD	eP	17 06 48		
	H: 16 53 48.8				
	3.8 N, 128.0 E, depth N				
	North of Halmahera				
1	KJN	iP	20 14 46.2 D	0.9	20.5
	H: 20 03 26.8				
	7.2 N, 34.0 W, depth N				
	Central Mid-Atlantic Ridge				
1	OUL	iP	22 24 12.1		
	H: 22 13 52.3				
	51.2 N, 179.1 E, 23 km				
	Rat Islands				
2	NUR	eP	00 30 39		
	KJN	iP	00 30 32.0		
	OUL	eP	00 30 32		
	SOD	eP	00 30 28		
	H: 00 17 29.1				
	3.9 N, 128.1 E, depth N				
	North of Halmahera				
2	NUR	iP	01 51 58.7		
		i	52 05.0		
		i	53 16.0		
		ePP	55 27		
	eSKS	02 02 24			
	eS	56			
	ePS	04 08			
	eSS	08 52			
	KJN	iP	01 51 46.9	1.0	27.3
		i	56.3		
		ePP	55 26		
	OUL	iP	01 51 50.1		
	SOD	iP	01 51 46.2		
		i	56.2		
	KEV	ePP	01 55 24		
	eSKS	02 02 12			
	eS	32			
	ePS	03 08			
	e	56			
	H: 01 38 44.2				
	3.9 N, 128.2 E, depth N				
	North of Halmahera				
2	NUR	eP	02 20 13		
	KJN	iP	02 20 03.1		
	OUL	eP	02 20 05		
	SOD	iP	02 20 01.6 D		
	H: 02 07 01.0				
	4.0 N, 128.3 E, depth N				
	North of Halmahera				

February

February

	T	A		T	A
2 NUR eP 02 47 21 KJN eP 02 47 11 SOD eP 02 47 11 H: 02 34 10.5 4.1 N, 128.3 E, depth N North of Halmahera				2 KJN eP 21 03 21 SOD iP 21 03 19.9 H: 20 50 21.3 4.3 N, 128.2 E, depth N North of Halmahera	
2 KJN iP 05 19 13.0 OUL iP 05 19 14.3 SOD eP 05 19 07				2 NUR eP 21 09 25 SOD eP 21 09 14 H: 20 56 14.6 3.9 N, 128.1 E, depth N North of Halmahera	
2 NUR eP 05 34 38 KJN iP 05 34 28.3 U 1.2 39.6 OUL eP 05 34 30 KEV eS 05 45 12 H: 05 21 26.2 3.9 N, 128.3 E, depth N North of Halmahera			3 NUR eP 03 16 54 KJN eP 03 16 47 SOD eP 03 16 43 H: 03 03 51.3 3.5 N, 128.3 E, 118 km North of Halmahera		
2 NUR eP 08 07 25 KJN eP 08 07 03 OUL eP 08 07 03 SOD eP 08 06 52 H: 07 56 39.9 41.3 N, 142.8 E, 62 km Hokkaido, Japan			3 OUL eP 03 56 05 H: 03 44 14.1 24.9 N, 141.3 E, 90 km (G) Volcano Islands		
2 SOD eP 09 58 32 H: 09 45 31.3 3.5 N, 128.1 E, 69 km North of Halmahera			3 NUR iP 04 00 55.0 KJN iP 04 00 44.8 0.7 10.3 OUL eP 04 00 46		
2 NUR eP 16 34 32 KJN eP 16 34 19 SOD eP 16 34 17 H: 16 21 15.4 3.8 N, 128.4 E, depth N North of Halmahera			3 OUL eP 04 42 41 SOD eP 04 42 38 H: 04 29 38.5 3.9 N, 128.2 E, depth N North of Halmahera		
2 NUR eP 17 01 59 OUL eP 17 01 52 SOD eP 17 01 45 H: 16 48 50.8 3.4 N, 128.3 E, 93 km North of Halmahera			3 NUR iP 06 48 11.0 i 21.8 KJN iP 06 47 46.7 OUL iP 06 47 40.6 i 56.6 SOD iP 06 47 23.7 H: 06 38 04.7 59.0 N, 152.5 W, 60 km Southern Alaska		
2 NUR eP 20 03 39			3 NUR iP 08 09 40.3 0.7 30.4 i 45.2 isP 10 28.3 ipPKP 12 13.6 iSKP 25.8 ePKS 13 22 epPP 14 52 eSKS 15 49 esPP 16 00 epPS 25 24		
2 NUR eS 20 16 52 KJN iP 20 06 41.0 1.0 21.8 i 53.3 OUL eP 20 06 47 H: 19 53 53.6 17.2 S, 66.5 E, depth N Mascarene Islands					

cont.

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T A

T A

	ePPS		26	00				
	esSP		27	08				
	eSS		30	24				
KJN	iPKP	08	09	30.2				
	i			38.2				
	epPKP		12	07				
	iSKP			15.5				
	iPP			24.6				
	iPKS		13	12.3				
	iSKS		15	44.7				
	eSKKP		21	06				
OUL	ePKP	08	09	31				
	i			34.1				
	i			41.2				
	epPKP		12	08				
	iSKP			15.9				
	i			26.0				
SOD	iPKP	08	09	33.3				
	e		10	10				
	epPKP		12	04				
	iSKP			08.3				
KEV	ePKP	08	09	24				
	i			30.1				
	ipPKP		12	00.2				
	iSKP			04.5				
	i			14.0				
	epPP		14	04				
	esPP		15	12				
	e		16	22				
	ePPS		24	24				
	eSS		29	08				
H: 07 51 25.4								
25.8 S, 178.1 E, 629 km (D)								
South of Fiji Islands								
3	NUR	iP	08	11 17.0				
	KJN	iP	08	11 25.9				
3	NUR	iPKP	08	32 01.0				
		isP		49.8				
		iSKP		34 45.5				
	KJN	ePKP	08	31 49				
		i		59.7				
		iSKP		34 35.2				
	OUL	iPKP	08	31 49.9				
		i		32 00.4				
		iSKP		34 35.8				
	SOD	iSKP	08	34 28.7				
H: 08 13 44.2								
25.6 S, 178.1 E, 610 km								
South of Fiji Islands								
3	NUR	iPKP	08	36 26.8	0.7	54.1		
		i		35.3				
				cont.				

	esP		37	13				
	iSKP		39	09.6				
	i			23.1				
	iPKS		40	09.3				
KJN	ePKP	08	36	18				
	i			25.2				
OUL	iPKP	08	36	16.9				
	i			17.7				
	i			24.5				
	iSKP		38	59.7				
	i		39	07.7				
SOD	iPKP	08	36	13.1				
	i			20.6				
	i			34.3				
	iSKP		38	53.2				
	i			57.1				
KEV	iPKP	08	36	11.8	0.6	25.6		
	i			18.5				
	iSKP		38	46.5				
H: 08 18 14.7								
25.7 S, 178.3 E, 654 km								
South of Fiji Islands								
3	NUR	eP	08	42 22				
	OUL	eP	08	42 00				
H: 08 31 35.8								
41.5 N, 142.6 E, 39 km								
Hokkaido, Japan								
3	NUR	eP	09	07 35				
	KJN	eP	09	07 09				
	OUL	eP	09	07 07				
		e		45				
	SOD	eP	09	06 52				
H: 08 57 06.8								
49.4 N, 155.6 E, depth N								
Kurile Islands								
3	NUR	eP	09	57 37				
		e		58				
		eS	10	07 24				
	KJN	iP	09	57 25.0	1.5	83.3		
		i		37.1				
	OUL	eP	09	57 30				
	SOD	eP	09	57 24				
		e		45				
H: 09 45 52.0								
19.2 N, 121.2 E, 57 km								
Philippine Islands								
3	NUR	eP	17	25 01				
	KJN	eP	17	24 51				
	SOD	iP	17	24 50.1				
H: 17 11 51.4								
4.3 N, 128.5 E, depth N								
North of Halmahera								

February

February

			T	A		T	A
SOD	eP	01 51 34			KJN	iPKP	11 46 48.7
	i	51.1				eSKP	49 22
	ePP	55 25			OUL	ePKP	11 46 48
KEV	eP	01 51 32				iSKP	49 22.1
	ePP	55 16			SOD	e	11 46 52
	ePPP	57 12				iSKP	49 13.2
	eSKS	02 02 00			H:	11 28 44.5	
	eS	28				19.8 S, 178.9 W, 623 km	
	ePPS	04 12				Fiji Islands	
	e	05 44			4	NUR	iP 15 17 13.5
	eSS	08 48				i	23.6
	eLR	02 22.5				KJN	iP 15 17 45.8
H:	01 38 26.2				5	KJN	eP 01 47 03
	0.6 S, 121.7 E, depth N					H:	01 34 05.4
	Northern Celebes						3.7 N, 128.3 E, 88 km
4	NUR	eP 04 24 19					North of Halmahera
	e	27 35			5	SOD	eP 07 41 17
	ePP	28 48			5	NUR	iP 09 25 42.0
	eSKS	34 52				e	30 23
	ePS	37 36				OUL	iP 09 26 21.4
	ePPS	38 24				SOD	eP 09 26 43
	iPKKP	40 25.5				H:	09 20 13.0
	eSS	43 20					34.5 N, 24.7 E, 56 km
	eLQ	04 53.5					Crete
KJN	eP	04 24 22			5	NUR	iP 10 02 37.0
	i	32.4				KJN	iP 10 02 19.0
	ePP	28 57				OUL	iP 10 02 20.2
	ePKKP	40 04				H:	09 50 31.7
OUL	eP	04 24 18					26.5 N, 141.8 E, depth N
	e	30					Bonin Islands
	ePP	28 44			5	NUR	eP 10 49 36
	iPKKP	40 07.0				eS	11 00 40
SOD	eP	04 24 15				eSS	06 50
	e	27				KJN	eP 10 49 30
	iPP	28 40.4				OUL	eP 10 49 27
	ePKKP	40 07				SOD	eP 10 49 24
KEV	eP	04 24 09				H:	10 36 24.6
	ePP	28 32					3.8 N, 128.6 E, 35 km
	eSKS	34 48					North of Halmahera
	ePS	37 36			5	KJN	iP 20 10 54.2
	eSS	43 00				OUL	eP 20 10 56
H:	04 10 13.3					SOD	eP 20 10 53
	8.2 S, 80.2 W, 16 km					H:	19 58 23.6
	Northern Peru						8.3 N, 123.4 E, 63 km
4	NUR	iP 09 05 51.0					Mindanao, P.I.
	e	08 03			5	NUR	iP 20 29 22.7
	SOD	eP 09 04 39					0.8 10.1
4	SOD	iP 09 11 49.0					cont.
4	NUR	iPKP 11 46 56.5					
	iSKP	49 34.3					
		cont.					

February				February			
		T	A			T	A
	KJN eP	20 29 42		6	NUR iP	14 52 37.1 U	0.7 21.9
	OUL eP	20 29 52			ipP	52.7	
	H: 20 23 52.1				iPcP	53 07.6	
	38.1 N, 45.3 E, depth N				KJN iP	14 52 12.7	0.6 13.7
	N.W. Iran-USSR border				OUL iP	14 52 05.9	
5	NUR iP	23 56 48.0	0.8 14.4		SOD iP	14 51 50.3 D	
	KJN eP	23 57 08			KEV iP	14 51 32.8 U	0.6 21.3
	OUL eP	23 57 05			H: 14 42 01.8		
	SOD iP	23 57 12.8			55.2 N, 160.4 W, depth N		
	H: 23 45 21.4				Alaska Peninsula		
	0.7 N, 29.7 W, depth N			6	NUR iP	16 28 26.0	
	Central Mid-Atlantic Ridge				H: 16 09 01.7		
6	NUR eP	04 41 14			24.7 S, 175.2 W, depth N		
	KJN eP	04 40 51			South of Tonga Islands		
	OUL iP	04 40 50.1		7	NUR iP	01 09 29.1	
	H: 04 30 31.1				e	10 41	
	42.3 N, 142.3 E, depth N				KJN iP	01 09 46.4	
	Hokkaido, Japan				OUL iP	01 09 56.4	
6	NUR iP	05 36 41.8			SOD eP	01 10 14	
	KJN eP	05 36 23			e	12 56	
	OUL iP	05 36 23.4			H: 01 03 06.5		
6	NUR iP	07 45 31.7	0.7 20.6		32.6 N, 48.1 E, 51 km		
	e	45			Western Iran		
	KJN iP	07 45 15.8 U	0.7 15.1	7	NUR eP	01 16 39	
	OUL iP	07 45 15.2			KJN eP	01 16 57	
	SOD iP	07 45 07.9 U			OUL iP	01 17 06.8	
	i	18.8			SOD eP	01 17 23	
	H: 07 33 00.5			7	KJN eP	05 07 25	
	21.8 N, 145.7 E, 56 km				OUL iP	05 07 23.7	
	Mariana Islands				SOD iP	05 07 25.2	
6	NUR iP	08 15 18.4	0.8 14.4		H: 04 54 10.1		
6	NUR iP	08 46 32.2			0.7 N, 125.8 E, 36 km		
	i	37.0			Molucca Passage		
	KJN iP	08 46 10.0		7	NUR i	06 27 25.0	
	OUL iP	08 46 08.5			iPKP	39.6	
	SOD iP	08 45 57.2			KJN ePKP	06 27 33	
	i	46 02.0			SOD ePKP	06 27 34	
	KEV eP	08 45 46			H: 06 08 50.4		
	H: 08 35 50.3				10.1 S, 165.9 E, 43 km		
	42.4 N, 142.4 E, depth N				Santa Cruz Islands		
	Hokkaido, Japan			7	OUL eP	06 29 06	
6	NUR iP	09 44 33.6	0.8 7.7		SOD eP	06 28 56	
	KJN iP	09 44 09.5			H: 06 15 50.7		
	OUL iP	09 44 04.4			0.7 N, 125.7 E, 41 km		
	H: 09 33 46.5				Molucca Passage		
	51.6 N, 176.2 W, 58 km			7	NUR iP	09 35 17.9	0.6 10.0
	Andreanof Islands						cont.

February

February

				T	A					T	A
	KJN	eP	09 35 10				KJN	iP	23 30 42.5	0.5	16.9
	SOD	iP	09 35 16.8				ePP	32 06			
	H: 09 25 38.8						OUL	iP	23 30 52.4		
	27.6 N, 94.0 E, depth N						SOD	iP	23 31 08.0		
	Eastern India						iPP	32 41.3			
7	NUR	iP	21 37 37.0	0.8	14.4		iPcP	33 11.2			
	i		47.9			8	KEV	iP	23 31 24.0	0.9	47.6
	KJN	iP	21 37 20.9	0.7	13.7		H: 23 23 34.9				
	OUL	iP	21 37 12.6				29.9 N, 51.0 E, 52 km				
	SOD	iP	21 37 01.3 U				Southern Iran				
	i		10.0								
	KEV	iP	21 36 48.0								
	H: 21 25 45.4										
	40.4 N, 124.5 W, 6 km										
	Northern California										
7	NUR	eP	22 26 51			9	SOD	eP	02 00 40		
	eS		28 32				H: 01 48 59.6				
	e		29 23				0.9 N, 25.6 W, depth N				
	KJN	eP	22 26 26				Central Mid-Atlantic Ridge				
	iS		27 51.4			9	NUR	eP	04 25 15		
	e		28 38				KJN	iP	04 25 06.0	0.8	9.2
	OUL	iP	22 26 09.9				OUL	iP	04 25 06.2		
	iS		27 21.6				SOD	iP	04 25 03.3		
	i		56.6				i		06.3		
	SOD	eP	22 26 02				H: 04 12 07.4				
	e		14				4.5 N, 128.3 E, 51 km				
	eS		27 09				North of Halmahera				
	e		40			9	NUR	iP	04 34 10.2		
	KEV	e	22 26 14			9	NUR	eP	14 40 11		
	iS		27 10.2				KJN	eP	14 40 00		
	e		50				OUL	eP	14 40 03		
8	KJN	eS	05 08 11				SOD	iP	14 39 59.6		
	e		41				H: 14 27 19.2				
	OUL	eP	05 05 11				5.7 N, 127.3 E, 136 km				
	eS		07 48				Philippine Islands				
	SOD	eP	05 04 41			9	NUR	iP	15 45 22.7		
	eS		06 55				KJN	iP	15 45 13.2	1.1	25.7
	KEV	eS	05 06 01				i		27.3		
8	NUR	ePKP	10 21 06				iPcP		47.5		
	H: 10 01 45.4						OUL	iP	15 45 18.3		
	27.9 S, 176.5 W, 118 km						SOD	iP	15 45 17.7		
	Kermadec Islands						H: 15 34 44.4				
8	KJN	eP	14 29 25				21.6 N, 101.3 E, depth N				
	SOD	iP	14 28 57.2				Burma-China border				
8	NUR	iP	23 30 24.7 U	0.6	12.5	9	NUR	iP	18 38 54.2 U	0.8	14.4
	i		38.7				i		58.7		
	iPcP		32 56.3				cont.				
	cont.						cont.				

February				February				
		T	A			T	A	
	KJN iP	18 39	19.4		10 NUR iP	18 12	53.7	
	SOD iP	18 39	37.6 U		KJN iP	18 12	41.4 U	
	i		42.1		OUL iP	18 12	46.4	
	KEV iP	18 39	52.0	1.1	28.0	SOD iP	18 12	45.0
	H: 18 29	04.0						
	5.5 N, 0.1 W, depth N				10 KJN iP	18 52	07.2	
	Northwest Africa							
9	NUR iP	23 11	37.4		10 NUR eP	20 28	34	
	i		49.0		KJN iP	20 27	57.5	
	eS	14 03			OUL eP	20 27	42	
	e		32		SOD iP	20 27	12.6	
	KJN eP	23 12	27		KEV eP	20 26	45	
	OUL eP	23 12	36		H: 20 23	57.5		
	H: 23 08	27.7			80.1 N, 5.7 E, 32 km			
	47.7 N, 18.1 E, depth N				Svalbard			
	Hungary				10 NUR iP	21 58	40.0	0.5
10	NUR eP	06 17	33		KJN iP	21 58	16.6	0.7
	OUL iP	06 17	05.1		OUL iP	21 58	14.6	
	H: 06 08	13.1			SOD iP	21 58	03.2	
	52.0 N, 152.1 E, 500 km				ePcP		48	
	Kurile Islands				KEV eP	21 57	49	
					H: 21 47	55.9		
					44.2 N, 148.5 E, depth N			
					Kurile Islands			
10	NUR iP	07 28	18.2	0.8	11.5	10 NUR eP	23 13	28
	KJN iP	07 28	15.5			iPKP	16 07.9	
	OUL iP	07 28	21.3			i	14.0	
	SOD iP	07 28	24.1			i	18 35.0	
	H: 07 16	12.9				iSKP	53.0	
	2.1 N, 96.8 E, depth N					i	19 37.1	
	Northern Sumatra					iPKS	52.0	
10	NUR iPKP	08 18	31.0			epPP	21 36	
	H: 07 59	42.2				e	22 20	
	14.9 S, 167.5 E, 141 km					eSKS	30	
	New Hebrides Islands					esPKS	23 24	
10	KJN iP	14 22	17.6			e	25 01	
	OUL eP	14 22	18			iSKKP	27 35.7	
	SOD eP	14 22	14			eSKSP	28 20	
	H: 14 09	17.4				iSP	45.7	
	3.7 N, 128.2 E, 78 km					ePSKS	29 20	
	North of Halmahera					epPS	31 31	
10	NUR iP	14 32	58.6			ePSP	48	
	ipP	33 18.0				e	33 54	
	KJN iP	14 32	50.2 U	0.7		e	34 55	
	i	33 31.7				eSS	36 40	
	OUL iP	14 32	52.7			eSSS	42 00	
	SOD iP	14 32	50.0			e	44 12	
	e	33 03				e	24 10 39	
	KEV eP	14 32	47		KJN iPKP	23 15	57.0	
	H: 14 19	52.3			i	16 01.7		
	2.7 N, 125.3 E, 57 km				iSKP	18 41.3		
	Talaud Islands				i	19 36.1		

cont.

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T A

T A

iPKS 42.3
i 21 46.3
iSKS 22 22.2
eSKKP 27 48
eSP 28 27
e 31 08
e 34 13
e 35 18
i 24 10 54.0
OUL iPKP 23 15 56.4
i 16 09.2
iSKP 18 39.4
iSKKP 27 50.4
eSP 28 22
SOD ePKP 23 15 49
i 56.0
i 16 05.0
iSKP 18 32.4
ePKS 19 34
ePPP 21 35
eSKS 22 16
esPKS 23 08
eSKKP 27 58
i 28 06.5
ePSKS 43
eSS 35 25
e 37 24
KEV eP 23 12 58
ePKP 15 52
i 16 02.2
i 17 07.0
iSKP 18 25.0
ipPKP 48.2
ePKS 19 26
e 20 30
e 21 28
ePPP 40
e 22 32
eSKKS 23 41
eSKSP 27 24
eSKKP 28 15
e 30 24
e 34 37
eSS 35 08
e 39 24
e 43 08

H: 22 58 05.8
22.7 S, 178.6 E, 673 km (G)
South of Fiji Islands

10 NUR eSKP 23 23 45
e 25 26
eSKKP 32 32

cont.

esPS 38 00
esSS 45 24
KJN iPKS 23 24 33.3
i 37.3
eSKS 27 10
iSKKP 32 42.2
i 48.2
eSP 33 24
OUL iPKP 23 20 52.9
eSKP 23 35
iSKKP 32 42.0
SOD iSKP 23 23 27.2
ePKS 24 27
ePPP 26 34
eSKKP 32 42
eSS 40 14
KEV eSKP 23 23 19
ePKS 24 11
epPP 25 38
eSKKS 28 28
esPS 37 00

H: 23 02 57.5
23.1 S, 178.8 E, 670 km
South of Fiji Islands

10 NUR iPKP 23 49 03.6
eSKP 51 38
e 52 22
KJN iPKP 23 48 56.6
iSKP 52 07.2
OUL iPKP 23 48 54.7
iSKP 52 04.6
SOD iSKP 23 51 56.8
KEV ePKP 23 48 40
e 46

11 NUR eP 04 43 59
KEV eP 04 42 26

11 NUR ePKP 11 13 45
KJN ePKP 11 13 38
eSKP 16 13

H: 10 55 15.4
19.3 S, 177.6 W, 424 km
Fiji Islands

11 NUR eP 13 43 12
KJN eP 13 43 06
OUL eP 13 43 07

H: 13 29 38.3
8.3 S, 118.8 E, 83 km
Sumbawa Island

February				February			
				T	A		
11	NUR	eP	21 37 28				
	KJN	iP	21 37 17.1				
11	NUR	iP	22 16 11.3 U	1.2	256.5		
		i	17.3				
		i	45.2				
		ePP	17 36				
		i	19 30.0				
		i	21 15.3				
		eS	22 00				
		iPcS	12.4				
		e	23 52				
	KJN	iP	22 16 03.1 U				
		i	21 14.0				
		iS	48.2				
	OUL	iP	22 16 11.3				
	SOD	iP	22 16 13.4				
		ePP	17 40				
		eS	22 10				
		eSS	24 46				
	KEV	iP	22 16 18.0 U	1.1	111.8		
		i	24.2				
		iPP	17 55.0				
		eS	22 12				
		eSS	24 48				
H: 22 08 54.7							
41.4 N, 79.2 E, depth N							
Kirgiz-Sinkiang border							
11	NUR	eP	22 29 20				
		e	32 12				
		ePP	33 32				
		eSKS	39 15				
		e	51				
		eS	40 20				
		e	45				
		eSP	42 00				
		e	43 16				
		iPKKP	45 20.3				
		eSS	47 20				
		e	49 44				
		e	55 40				
	KJN	eP	22 29 10				
		eSKS	39 02				
		e	38				
		eS	40 01				
		eSP	41 24				
		eSPP	42 27				
		ePKKP	45 30				
		e	55 55				
	OUL	iP	22 29 10.6				
		epP	31 02				
		ePP	33 25				
		iPKKP	45 30.1				
cont.							
	SOD	iP	22 29 12.0				
		epP	31 08				
		i	32 15.0				
		iPP	33 18.0				
		iPKKP	45 20.2				
		i	29.8				
	KEV	iP	22 29 10.0 U	0.8	187.5		
		i	28.8				
		i	32 16.6				
		eSKS	39 00				
		iSKKS	28.0				
		eS	40 00				
		e	41 08				
		e	42 04				
		ePS	56				
		e	44 16				
		eSS	47 00				
		esSS	49 44				
		LZ		20	31.8u		
		LN		20	8.6u		
		LE		20	18.2u		
H: 22 16 13.5							
6.7 S, 126.8 E, 450 km (G)							
Banda Sea							
11	NUR	eP	22 47 12				
	SOD	iP	22 47 23.0				
11	NUR	eP	22 51 19				
	KJN	eP	22 51 10	0.7	10.3		
	OUL	eP	22 51 18				
	SOD	iP	22 51 21.0				
12	NUR	iP	00 29 53.4	1.0	16.0		
		i	58.0				
		ePP	31 21				
	KJN	iP	00 29 49.0	0.8	19.2		
		i	30 06.2				
		ePPP	31 29				
	OUL	eP	00 29 53				
		i	58.1				
	SOD	eP	00 29 56				
		i	30 01.0				
	KEV	eP	00 30 05				
H: 00 22 37.4							
41.3 N, 79.3 E, depth N							
Kirgiz-Sinkiang border							
12	NUR	iP	08 47 37.0				
		i	48 06.2				
		eS	51 10				
	OUL	iP	08 48 22.4				
		i	28.9				
		i	47.1				
cont.							

February						February			
				T	A				
	KJN	eP	15 15 36				KJN	eP	05 06 22
	OUL	iP	15 15 42.1				SOD	eP	05 06 16
	SOD	eP	15 16 04				H: 04 53 28.0		
	H: 15 09 33.1						4.6 N, 127.5 E, 98 km		
	34.7 N, 22.6 E, depth N						Talaud Islands		
	Mediterranean Sea								
13	NUR	iP	15 30 51.0	0.6	10.0	14	KJN	eP	06 27 55
	KJN	eP	15 30 39				H: 06 14 38.8		
	OUL	iP	15 30 39.6				0.8 S, 126.7 E, depth N		
							Molucca Sea		
13	NUR	eP	15 43 01			14	NUR	iP	08 44 30.0
	KJN	eP	15 42 42				i		44.8
13	NUR	eP	17 45 03				KJN	iP	08 44 11.2
	i		06.9				OUL	iP	08 44 02.7
							i		17.5
13	NUR	iP	21 40 55.2 U	0.7	21.4		SOD	i	08 44 05.3
	KJN	eP	21 40 50				H: 08 33 36.0		
	OUL	iP	21 40 43.8				48.9 N, 123.1 W, depth N		
							Vancouver Island		
13	NUR	eP	22 24 28			14	NUR	iP	10 54 38.3
13	KJN	iP	22 30 12.7						1.0 11.8
	OUL	iP	22 30 22.8			14	NUR	iP	13 23 40.0
13	NUR	eP	23 47 30				KJN	iP	13 23 35.1
	KJN	iP	23 47 13.0				OUL	iP	13 23 28.6
	OUL	iP	23 47 12.6				i		35.3
	SOD	iP	23 47 05.0				iPP		26 55.7
	H: 23 36 18.7						i		27 02.1
	28.0 N, 139.7 E, 408 km						SOD	iP	13 23 22.7
	Bonin Islands						KEV	eP	13 23 18
14	NUR	ePS	01 08 08				eScS		34 00
	eSS		13 48				H: 13 10 36.9		
	eSSS		18 12				16.6 N, 99.1 W, 18 km (G)		
	KEV	ePS	01 07 42				Guerrero, Mexico		
	eSS		13 20			14	NUR	eP	13 40 12
	eSSS		17 20				i		23.0
	H: 00 40 31.3						KJN	iP	13 39 50.5
	8.3 S, 80.1 W, 22 km						i		40 00.3
	Northern Peru						OUL	eP	13 39 49
14	NUR	iPKP	03 23 21.0				i		58.7
	i		32.0				SOD	eP	13 39 42
	KJN	ePKP	03 23 15				e		46
	H: 03 04 04.1						H: 13 29 14.2		
	16.1 S, 173.0 W, depth N						39.3 N, 143.0 E, 60 km		
	Tonga Islands						Honshu, Japan		
14	NUR	iP	03 51 45.9			14	NUR	iP	16 50 58.4 U
14	NUR	eP	05 06 27				i		51 10.0
	cont.								0.7 23.9
						15	KJN	iSg	04 32 32.5
							OUL	iPg	04 31 43.5
							iSg		32 00.6
							cont.		

February

February

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SOD eSg 04 32 41
Helsinki:
H: 04 31 20
65.2 N, 22.9 E
Gulf of Bothnia

SOD eSKP 15 23 49
H: 15 03 12.3
26.0 S, 178.1 E, 680 km (G)
South of Fiji Islands

15 NUR iP 04 56 15.6

15 NUR ePKP 09 01 57
iSKP 04 48.5
KJN iPKP 09 01 53.2
iSKP 04 37.7
OUL iPKP 09 01 52.3
iSKP 04 36.3
SOD ePKP 09 01 47
iSKP 04 30.0
H: 08 43 34.4
24.1 S, 180.0 W, 550 km (G)
South of Fiji Islands

16 NUR iP 00 06 27.7
i 37.0
e 07 42
e 08 03
KJN iP 00 06 19.1
i 29.1
ePP 07 40
OUL eP 00 06 31
i 37.1
SOD eP 00 06 30
i 39.5
KEV eP 00 06 35
i 44.6
H: 23 59 10.6
41.5 N, 79.5 E, depth N
Kirgiz-Sinkiang border

15 NUR eP 11 28 56
e 29 19
KJN eP 11 29 02
OUL iP 11 28 54.0
SOD eP 11 28 54
H: 11 17 09.6
19.7 N, 71.4 W, depth N
Dominican Republic

16 NUR eP 04 26 19
i 34.2
e 27 33

16 KJN eP 06 40 21
H: 06 29 46.1
39.0 N, 142.8 E, depth N
Honshu, Japan

15 NUR iP KP 14 07 52.0 U 0.8 101.5
i 08 32.0
epPKP 43
KJN iP KP 14 07 45.1 U 0.9 83.0
ipPKP 08 35.1
OUL iP KP 14 07 44.6
i 52.8
ipPKP 08 37.5
iPKKP 17 38.8
SOD iP KP 14 07 41.1
iPKKP 17 47.8
KEV iP KP 14 07 37.0 U 0.9 39.4
H: 13 49 13.6
13.6 S, 167.2 E, 205 km (D)
New Hebrides Islands

16 KJN eP 07 05 55
Moscow:
H: 06 52 42
1.7 N, 126.2 E
Molucca Sea

16 NUR iP 15 10 34.3
KJN iP 15 10 32.0 0.7 5.5
OUL eP 15 10 41

15 NUR iP KP 15 21 23.0 0.9 16.4
i 31.0
KJN iP KP 15 21 21.0
iSKP 23 56.0
OUL ePKP 15 21 12
i 19.3
iSKP 23 54.2
i 24 01.9
cont.

16 NUR eP 15 21 28
KJN iP 15 21 37.6
H: 15 08 58.9
16.9 S, 67.0 E, depth N
Mid-Indian Rise

16 KJN eP 15 33 44
OUL eP 15 33 44
H: 15 20 19.1
10.0 S, 107.8 E, 33 km
South of Java

February						February							
				T	A								
				T	A								
	ePP		41			20	NUR	eP	11 17 17				
	eSKS	19	04				KJN	eP	11 17 05				
	eS		35				OUL	eP	11 17 07				
	e	20	10				SOD	eP	11 17 04				
	ePKKP	25	57				H: 11 04 08.0						
KEV	iP	10	08	33.6			3.5 N, 128.1 E, 73 km						
	i			39.7			North of Halmahera						
	i	09	07.0										
	ePP	12	20			20	NUR	eP	12 27 47				
	eSKS	19	00				KJN	eP	12 27 37	1.2		18.9	
	eS		20				SOD	iP	12 27 36.4				
	e	20	06				KEV	eP	12 27 32				
	eFS		58				H: 12 14 38.7						
	eSS	25	36				3.6 N, 127.9 E, 70 km						
	H: 09 55 33.8						Talaud Islands						
	3.5 N, 128.2 E, 33 km												
	North of Halmahera												
20	NUR	iP	10 43	31.0 U	1.1	86.2	20	NUR	eP	12 43 58			
	i		44	20.0				KJN	iP	12 43 46.0	1.0		15.3
	e		46	10				OUL	eP	12 43 49			
	e			48				SOD	iP	12 43 45.2			
	ePP		47	13				H: 12 30 48.3					
	eSKS		54	03				3.5 N, 128.2 E, 79 km					
	eS			36				North of Halmahera					
	e		55	01			20	SOD	eP	13 08 22			
	ePKKP	11	00	39				i		30.5			
	H: 12 55 29.6							3.6 N, 128.5 E, 56 km					
KJN	iP	10	43	20.5 U	1.2	141.0		North of Halmahera					
	i			24.6									
	i		45	11.9			20	SOD	eP	13 19 07			
	i		46	15.0				e		11			
	iPP			51.2				H: 13 06 11.1					
	eSKS		53	54				3.3 N, 128.1 E, 70 km					
	eS		54	28				North of Halmahera					
	ePKKP	11	00	42									
OUL	iP	10	43	23.7			20	KJN	ePKP	13 20 14			
	i		46	39.6				OUL	ePKP	13 20 14			
	ePKKP	11	00	44				H: 13 02 04.1					
SOD	iP	10	43	20.1 U				19.9 S, 177.7 W, 579 km					
	i		44	24.8				Fiji Islands					
	e		46	25									
	ePP		47	12			20	NUR	eP	13 42 15			
	ePKKP	11	00	43				KJN	iP	13 42 04.7			
KEV	iP	10	43	17.0 U	1.8	328.9		SOD	iP	13 42 02.9			
	i			25.0				H: 13 29 07.6					
	i		46	06.2				3.6 N, 128.1 E, 83 km					
	H: 10 30 22.1							North of Halmahera					
	3.5 N, 128.4 E, 77 km												
	North of Halmahera												
20	KJN	eP	11 06	24			20	NUR	eP	15 51 14			
	SOD	eP	11 06	22				eSKS		16 01 48			
	H: 10 53 21.8							eS		02 20			
	3.5 N, 128.0 E, 33 km							eSS		08 36			
	North of Halmahera							KJN	eP	15 51 06			

cont.

February

February

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iSb 58.2
iSg 01 07.5
KEV e 11 00 10
iSn 58.3
iSb 01 23.2

Helsinki:
H: 10 58 26
66.4 N, 14.0 E
Norway

21 NUR eP 15 43 36

21 NUR iP 18 44 40.6
e 45 14
KJN iP 18 45 19.8 0.9 21.4
OUL iP 18 45 26.8
SOD eP 18 45 47
H: 18 39 56.6
39.2 N, 22.0 E, 41 km
Greece

21 NUR iPKP 21 05 41.9 1.0 24.6
KJN iPKP 21 05 34.2 1.0 15.3
OUL iPKP 21 05 35.2
KEV iPKP 21 05 25.3
H: 20 46 27.1
16.1 S, 173.0 W, 38 km (D)
Tonga Islands

22 NUR eP 00 39 52
KJN eP 00 40 30
OUL eP 00 40 40

22 NUR iP 03 38 20.0 0.7 13.2

22 NUR eP 04 50 33
KJN eP 04 50 25
OUL eP 04 50 32
SOD eP 04 50 40

22 NUR eP 08 11 50
SOD eP 08 11 53

22 NUR iP 10 00 02.2 0.8 16.2
KJN iP 09 59 37.5
OUL iP 09 59 30.2
SOD iP 09 59 14.8
H: 09 49 40.2
56.8 N, 153.9 W, 66 km
Kodiak Island

22 NUR eP 18 06 56
KJN eP 18 06 46

cont.

OUL eP 18 06 48
SOD iP 18 06 45.3
H: 17 53 51.4
3.5 N, 128.2 E, 96 km
North of Halmahera

22 NUR eP 18 18 48
KJN eP 18 18 38
SOD eP 18 18 38
H: 18 05 37.3
3.6 N, 128.3 E, depth N
North of Halmahera

22 NUR ePKP 18 30 08
i 15.6
e 32 42
iSKP 33 41.0
i 54.6
KJN ePKP 18 30 02
i 08.9
i 18.9
iSKP 33 30.1
iPKS 41.2
OUL ePKP 18 29 59
i 30 07.5
i 17.5
eSKP 33 28
SOD ePKP 18 29 55
eSKP 33 23
KEV ePKP 18 30 00
H: 18 11 01.2
24.8 S, 177.0 W, 138 km (D)
South of Fiji Islands

22 NUR iP 20 46 44.2 0.8 10.3
KJN iP 20 46 37.3 1.0 10.9
OUL iP 20 46 43.9
SOD iP 20 46 44.9
H: 20 37 07.1
26.6 N, 92.4 E, 52 km
Eastern India

22 NUR eP 20 56 51

22 NUR eP 23 11 36
e 52
e 14 11
ePS 25 04
eSS 29 24
KJN iP 23 11 28.3 U 0.7 13.0
ePP 15 39
OUL iP 23 11 31.3
ePP 15 42

cont.

February						February			
				T	A				
SOD	iP	23 11 29.4	U			eSS	07 56		
	e	13 01				eSSS	11 26		
	ePP	15 36				H: 00 36 56.6			
KEV	eP	23 11 29				3.1 S, 118.9 E, 13 km			
		H: 22 58 44.0				Celebes			
		6.9 S, 124.9 E, 540 km (G)							
		Banda Sea				23 NUR	eP 01 11 14		
23	NUR	eP 00 50 18		1.2	52.6	23	KJN eP 01 26 28		
	i	53 26.0				OUL eP 01 26 32			
	e	57				SOD eP 01 26 30			
	ePP	54 20				H: 01 13 15.4			
	ePPP	56 12				3.3 S, 119.1 E, depth N			
	e	57 22				Celebes			
	e	59 04				23	NUR eP 01 30 27		
	eSKS	01 01 00				KJN eP 01 30 15			
	eS	28							
	ePS	03 00				23	KJN eP 02 21 17		
	e	04 28				OUL eP 02 21 19			
	ePKKP	07 21				H: 02 10 18.5			
	eSS	52				35.5 N, 139.6 E, 33 km			
	eSSS	11 36				Honshu, Japan			
	LZ			22	145.0u				
	LN			20	51.4u	23	NUR eP 02 30 25		
	LE			20	81.4u	ePP 34 04			
KJN	eP	00 50 11		1.3	69.4	KJN eP 02 30 10			
	i	31.5				e 33 57			
	i	45.0				SOD eP 02 30 12			
	i	53 33.5				H: 02 17 01.4			
	iPP	54 04.0				3.1 S, 118.8 E, depth N			
	eS	01 01 18				Celebes			
OUL	iP	00 50 15.0				23	KJN eP 03 04 12		
	i	20.5				OUL eP 03 04 16			
	e	49				H: 02 50 54.4			
	e	53 11				3.4 S, 119.1 E, 22 km			
	ePP	54 11				Celebes			
SOD	iP	00 50 12.0				23	NUR eP 06 17 09		
	i	20.1				ePP 21 04			
	iPP	54 04.2				ePPP 23 08			
	eSKS	01 00 46				eS 28 20			
	eS	01 17				ePPS 30 20			
	ePPS	03 00				eSS 34 28			
	eSS	07 52				eSSS 38 32			
KEV	iP	00 50 12.8				KJN iP 06 17 04.8	1.0	12.0	
	e	51 48				SOD iP 06 17 05.1			
	e	53 53				KEV eP 06 17 04			
	iPP	54 07.1				ePP 21 08			
	ePPP	55 56				e 22 04			
	e	57 24				eS 28 22			
	eSKS	01 00 36				H: 06 03 47.0			
	eS	01 12				3.4 S, 119.0 E, 7 km			
	ePS	02 50				Celebes			
	e	04 56							
		cont.							

February

February

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23 NUR eSn 11 21 27
iSg 22 29.0
KJN eSn 11 22 07
eSg 23 04
OUL eSg 11 22 38
SOD eSn 11 22 03
eSg 23 05

Uppsala:
H: 11 17 40
62.0 N, 6.3 E
Norway

23 NUR iP 12 17 11.3 U 0.8 16.2
KJN iP 12 17 03.0 0.7 6.2
OUL iP 12 17 02.5
i 06.4
SOD eP 12 16 56
KEV iP 12 16 52.6

23 NUR eP 12 52 29
KJN eP 12 52 13
OUL eP 12 52 15
SOD eP 12 52 05
H: 12 41 17.5
28.7 N, 128.1 E, 111 km
Ryukyu Islands

23 NUR iPKP 14 54 30.7 1.0 20.5
e 37
KJN ePKP 14 54 37
OUL iPKP 14 54 38.0
SOD ePKP 14 54 34
H: 14 35 29.9
60.4 S, 26.5 W, depth N
South Sandwich Islands

24 NUR iP 00 22 44.0 0.9 17.2
e 23 08
e 25 42
ePP 26 52
e 27 32
eSKS 33 12
eS 34 12
ePS 36 00
e 37 28
iPKKP 38 37.0
i 39 10.0
e 40 48
eSS 41 20
e 45 20
eSSS 46 44
KJN iP 00 22 33.4 U 1.2 58.5
i 23 01.6
cont.

iPP 26 44.3
eSKKS 33 57
eS 34 32
iPKKP 38 42.3
e 39 14
OUL iP 00 22 36.4
ePKKP 38 40
SOD iP 00 22 33.2
e 26 11
ePP 27 26
eS 33 54
iPKKP 38 43.4
eSS 41 00
KEV eP 00 22 32
i 23 07.0
i 35.2
iPP 26 42.0
eSKS 33 00
eS 52
eSP 35 36
e 36 36
e 39 44
eSS 40 56

H: 00 08 45.6
6.2 S, 131.0 E, 38 km
Tanimbar Islands

24 NUR eP 01 14 30 0.9 10.3
i 34.7
KJN iP 01 14 21.7
OUL iP 01 14 23.2
SOD iP 01 14 20.4
H: 01 01 10.9
1.7 N, 126.4 E, 16 km
Molucca Passage

24 NUR eP 04 31 19
ePP 35 01
ePPS 44 28
KJN eP 04 31 18
ePP 35 00
SOD eP 04 31 20
H: 04 18 03.7
3.2 S, 119.0 E, depth N
Celebes

24 NUR eP 11 51 48
eS 54 51
KJN eP 11 52 27
eS 56 04
OUL iP 11 52 39.4
SOD eP 11 53 05

February				T	A	February				T	A
	eSKKP	22	05			25	NUR	eP	14 18 33		
KEV	ePKP	04	10 29					i	37.3	1.1	23.8
	i		11 52.0					eS	29 12		
	iSKP	13	38.5					eSS	34 28		
	esSS	33	34			KJN	eP	14 18 52			
	H: 03 51 45.6						i	56.0	1.1	32.4	
	32.4 S, 180.0 E, 325 km					SOD	eP	14 19 02			
	South of Kermadec Islands					KEV	eS	14 30 20			
25	NUR	iP	07 51 48.2 U	1.5	70.1		eSS	36 28			
	i		52 13.6				H: 14 05 59.8				
	ePP		55 12				19.3 S, 12.1 W, depth N				
	eS	08	02 28				South Atlantic Ridge				
	ePS		03 32			25	NUR	iPKP	15 01 20.9	0.6	26.3
	eSS		08 08				KJN	iPKP	15 01 12.7	0.7	21.2
KJN	iP	07	51 45.9	1.1	55.4		OUL	iPKP	15 01 13.1		
	i		49.9				SOD	iPKP	15 01 09.0		
	i		52 10.0				KEV	iPKP	15 01 05.5	0.7	20.6
OUL	iP	07	51 39.7				H: 14 42 30.4				
	i		43.7				15.0 S, 167.4 E, 132 km (D)				
SOD	iP	07	51 36.1				New Hebrides Islands				
KEV	iP	07	51 31.8 U	1.1	97.6	25	NUR	eP	16 34 44		
	i		35.8				KJN	iP	16 34 03.0		
	e		57				OUL	iP	16 33 46.9		
	eS	08	01 54				i	49.6			
	eSS		07 32				eS	36 00			
	eSSS		11 10				SOD	iP	16 33 19.6		
	H: 07 39 00.6						eS	35 15			
	15.2 N, 87.5 W, 15 km (G)						KEV	eP	16 32 53		
	Honduras						eS	34 22			
25	NUR	iPKP	10 54 50.3				H: 16 30 50.4				
	KJN	ePKP	10 54 36				76.4 N, 10.4 E, depth N				
	OUL	iPKP	10 54 47.1				Svalbard				
	H: 10 35 26.3					25	NUR	iP	16 42 34.1		
	25.8 S, 176.3 W, 55 km (G)						KJN	eP	16 42 06		
	South of Fiji Islands						epP	21			
25	NUR	eP	13 17 22				OUL	iP	16 42 02.3		
	H: 13 04 45.8						H: 16 32 25.2				
	19.6 S, 12.2 W, depth N						53.9 N, 161.3 E, 53 km				
	South Atlantic Ridge						Kamchatka				
25	NUR	iP	13 48 18.2	0.9	16.8	26	NUR	iP	01 31 34.0		
	i		57.1				i	41.4	0.7	10.3	
	eS		51 38				e	34 35			
	e		52 48				e	35 53			
KJN	eP	13	48 51				KJN	iP	01 32 18.9		
OUL	iP	13	49 01.9				i	22.1	1.0	22.9	
SOD	eP	13	49 22				e	36 06			
	H: 13 43 51.1						OUL	iP	01 32 23.1		
	41.6 N, 32.3 E, 31 km						i	48.7			
	Turkey						eS	35 53			

cont.

February			T	A	February			T	A
	SOD	iP 01 32 46.8				OUL	iP 02 47 34.9		
	KEV	eP 01 33 04				e	03 18 13		
	H:	01 28 01.3				e	36		
		48.4 N, 9.1 E, 27 km				e	19 54		
		Germany				SOD	iP 02 47 48.7 U		
26	NUR	eP 01 43 10				e	03 18 07		
	eSKS	52 32				e	20 05		
	eS	53 08				KEV	iP 02 48 02.0 U		
	esS	57 12				H:	02 40 32.5		
	eSS	59 28					36.0 N, 10.6 W, 22 km		
	KJN	iP 01 43 02.7 U	0.6	12.3			North Atlantic Ocean		
	OUL	iP 01 43 05.7							
	SOD	eP 01 43 05							
	KEV	eS 01 52 44			28	NUR	iP 03 52 44.0		
	esS	56 52				OUL	iP 03 52 53.4		
	H:	01 31 18.1				i	53 23.9		
		4.3 N, 122.1 E, 636 km							
		Celebes Sea							
26	NUR	eP 12 41 00			28	NUR	eP 04 09 12		
	H:	12 35 47.8				i	24.4		
		36.6 N, 27.2 E, 27 km				KJN	iP 04 09 01.0		
		Dodecanese Islands				i	11.2		
26	NUR	iP 19 14 33.2	0.8	8.6		OUL	eP 04 09 14		
	KJN	iP 19 14 28.5	0.8	10.0		SOD	eP 04 09 01		
	OUL	iP 19 14 24.6				e	11		
						H:	03 56 37.6		
							11.8 N, 125.9 E, depth N		
							Samar, P.I.		
26	SOD	eP 23 00 50			28	NUR	iP 04 32 10.8 U	0.9	216.5
	H:	22 47 49.1				i	28.2		
		2.6 N, 128.9 E, 79 km				ePP	33 20		
		Halmahera				iPcP	34 54.7		
27	NUR	iP 16 35 31.0	0.7	5.0		KJN	iP 04 32 37.8 U	1.5	616.1
						eS	38 15		
27	NUR	iP 21 16 45.3	0.7	5.0		OUL	iP 04 32 37.2		
	e	17 05				i	33 00.4		
	KJN	iP 21 16 26.5	0.7	13.0		iPcP	35 02.6		
	OUL	iP 21 16 28.0				SOD	iP 04 32 50.3 U		
	i	47.1				i	33 01.5		
	SOD	eP 21 15 54				ePP	34 19		
28	NUR	iP 02 47 09.1 U	2.1	7128.0		KEV	iP 04 33 03.3 U	1.5	354.9
	ePcP	49 52				i	17.0		
	eS	52 22				H:	04 25 36.9		
	e	33					36.2 N, 10.5 W, depth N		
	e	03 18 25	1.4	60.2			North Atlantic Ocean		
	e	19 52							
	KJN	iP 02 47 36.0 U			28	NUR	eP 05 17 27		
	e	03 18 33				SOD	eP 05 17 47		
	e	19 56							
		cont.							

February

February

	T	A	
28	NUR	iP	10 06 26.5
	KJN	eP	10 06 53
		i	07 07.1
	OUL	iP	10 06 52.0
	SOD	iP	10 07 04.8
	H: 09 59 48.0		
	35.9 N, 10.8 W, 25 km		
	North Atlantic Ocean		
28	NUR	eSKS	13 42 18
		ePS	44 30
		e	45 45
		eSS	48 24
		eSSS	53 06
	H: 13 18 07.4		
	3.4 S, 119.0 E, 51 km		
	Celebes		
28	NUR	iP	13 57 27.2
	OUL	iP	13 56 58.1
	SOD	iP	13 56 43.6
	H: 13 47 11.7		
	51.7 N, 158.0 E, 58 km (D)		
	Kamchatka		
28	NUR	ePKP	17 07 57
	OUL	ePKP	17 07 52
	H: 16 48 53.2		
	16.8 S, 167.9 E, 48 km		
	New Hebrides Islands		
28	NUR	eP	19 37 09
		e	41 25
	cont.		

	T	A		T	A
	KJN	iP	19 37 23.1		
		e	42 08		
	OUL	iP	19 37 34.4		
28	NUR	iP	21 23 25.2		
	KJN	iP	21 23 00.8		
	OUL	eP	21 22 55		
28	NUR	iP	21 43 34.3	0.8	8.6
		e	59		
	KJN	eP	21 43 09		
	OUL	eP	21 43 04		
28	NUR	iP	21 47 33.0		
	KJN	eP	21 47 09		

February 6, 1970

Urmass Luosto
Aili Huovila

March				T	A	March				T	A	
2	NUR	eP	22 35 28			KJN	iP	09 06 07.4 D	0.9	82.2		
		i	32.2				ipP	29.7				
	KJN	iP	22 35 17.2	0.7	6.9	OUL	iP	09 06 09.8				
	OUL	eP	22 35 22				ipP	32.8				
	SOD	eP	22 35 17			SOD	iP	09 06 06.5 U				
			H: 22 23 17.4				ipP	28.6				
			12.9 N, 120.8 E, 80 km			KEV	eP	09 06 03				
			Mindoro, P.I.				ipP	25.3				
								H: 08 53 48.4				
2	KJN	eP	22 49 08					10.6 N, 125.3 E, 99 km				
	OUL	eP	22 49 10					Leyte, P.I.				
	SOD	eP	22 49 07			3	NUR	eP	14 10 56			
			H: 22 37 02.4				KJN	iP	14 10 57.8			
			12.9 N, 120.6 E, 46 km				OUL	eP	14 11 06			
			Mindoro, P.I.					H: 14 03 00.5				
3	NUR	iP	01 03 49.1 U	1.4	168.1			31.0 N, 71.8 E, depth N				
		i	04 00.2					West Pakistan				
		iPP	14.7			3	NUR	iP	14 59 52.0 U	0.8	54.7	
		eS	07 36				i	15 00 03.8				
		eLR	01 09.5				e	01 52				
	KJN	iP	01 04 27.0	1.7	410.0		ePPP	03 52				
		i	28.9				eS	08 14				
		eS	08 43				e	24				
	OUL	iP	01 04 37.4				eSS	12 32				
		i	45.4				eSSS	15 12				
		i	05 02.5				KJN	iP	14 59 25.9 U	0.8	50.0	
		eS	09 00				i	34.5				
	SOD	iP	01 04 59.4 U				ePP	15 01 34				
		eS	09 40				i	02 38.8				
		e	54				OUL	iP	14 59 22.8			
	KEV	eP	01 05 20				i	31.2				
		i	34.0				SOD	iP	14 59 08.0 U			
		ePP	06 12				i	19.8				
		eS	10 14				iPcP	15 00 09.7				
			H: 00 59 10.5				i	48.1				
			40.1 N, 27.4 E, 4 km				KEV	iP	14 58 53.1 U	0.7	27.1	
			Turkey				i	59 05.4				
							ePP	15 01 04				
3	NUR	iP	06 28 56.0 U	0.7	51.6		eS	06 20				
		i	58.8					H: 14 49 28.0				
	KJN	iP	06 28 53.5 U	0.8	25.4			51.6 N, 159.3 E, 12 km				
	OUL	iP	06 29 01.9					Kamchatka				
		i	07.3									
	SOD	iP	06 29 06.0 U			3	NUR	ePKP	16 49 32			
	KEV	iP	06 29 13.0	0.7	19.4			ePPS	17 04 16			
		i	21.8					eSS	10 02			
			H: 06 20 21.8					eSSS	15 00			
			30.2 N, 79.9 E, 20 km					KEV	eSS	17 08 00		
			Tibet-India border					e	10 56			
								eSSS	12 52			
3	NUR	iP	09 06 18.8 U	0.8	33.1			H: 16 30 13.8				
		ipP	40.8					16.9 S, 172.5 W, depth N				
			cont.					Samoa Islands				

March		T	A	March		T	A
3	NUR iP 17 09 45.0 H: 16 59 45.0 50.8 N, 154.3 E, 197 km Kurile Islands	0.9	16.8	5	NUR ePn 00 27 58 iSn 29 36.0 eSg 30 39 KJN iPn 00 27 34.5 iSn 28 54.2 iSg 29 52.3 OUL iPn 00 27 18.5 iSn 28 25.2 eSg 29 01 SOD ePn 00 27 11 eSn 28 11 iSg 45.5 KEV iSn 00 28 15.3 iSg 29 03.1 Uppsala: H: 00 25 50 67.4 N, 12.4 E Norway		
3	NUR eP 20 35 15 eSKS 45 40 eS 46 20 OUL eP 20 35 10 H: 20 22 07.3 3.6 N, 128.5 E, 72 km North of Halmahera			5	NUR eP 03 04 10 KJN iP 03 04 37.0 OUL iP 03 04 36.2 i 57.9 iPcP 06 59.0 SOD iP 03 04 49.8 H: 02 57 33.5 35.9 N, 10.8 W, depth N North Atlantic Ocean	1.0	16.0
4	NUR iP 01 52 29.9 U iPP 53 04.0 ePcP 56 10 KJN iP 01 53 00.1 OUL iP 01 53 09.1 ePcP 56 20 SOD iP 01 53 30.3 U i 54 19.3 ePcP 56 25 KEV iP 01 53 50.5 H: 01 47 25.5 37.0 N, 31.1 E, 109 km Turkey	1.2	99.8	5	NUR iP 09 03 59.2 i 04 10.6 KJN iP 09 03 48.0 U ipP 04 03.1 OUL iP 09 03 51.2 i 04 03.6 SOD eP 09 03 47 H: 08 51 20.6 9.9 N, 125.8 E, 66 km Mindanao, P.I.	0.7	14.2
4	NUR eP 02 12 08 H: 02 04 59.7 72.2 N, 74.6 W, depth N Baffin Island			5	NUR iP 11 23 40.0 KJN eP 11 23 36 OUL iP 11 23 45.4 SOD eP 11 23 49 KEV iP 11 23 55.4 H: 11 15 00.6 29.2 N, 81.1 E, 63 km Nepal	0.8	24.6
4	NUR eP 02 15 23 KJN eP 02 15 12			5	OUL iP 11 52 29.8		
4	NUR ePKP 03 37 26 KJN iPKP 03 37 34.0 OUL iPKP 03 37 34.4 H: 03 18 31.7 57.7 S, 25.3 W, depth N South Sandwich Islands	0.8	11.5				
4	NUR ePKP 06 41 41 iSKP 44 33.4 KJN iPKP 06 41 43.3 iSKP 44 23.0 OUL iPKP 06 41 42.1 eSKP 44 22 H: 06 23 22.8 23.8 S, 179.1 E, 534 km South of Fiji Islands						

March

March

March				T	A	March				T	A		
5	NUR	eP	14 05 14					eS	35 28				
		ePP	09 04					eSS	42 00				
		eSKS	15 45					KJN iP	16 24 13.0 U				
		eS	16 20					i	22.0				
		eSS	23 35					i	25 31.0				
		eSSS	27 40					OUL iP	16 24 14.2				
		LZ		22	7.4u			i	22.2				
		LN		20	2.1u			SOD iP	16 24 09.3				
		LE		20	3.6u			KEV eP	16 24 10				
	KJN	iP	14 05 03.8	1.1	31.1			H:	16 11 12.2				
		i	06.0						4.1 N, 128.4 E, 49 km				
		ePP	08 45						North of Halmahera				
		eSKS	15 31										
		eS	16 00										
	OUL	iP	14 05 06.0					5	NUR	iP	19 40 20.3 U	1.0	1220.0
	SOD	iP	14 05 02.3							i	37.5		
		ipP	15.9							ipP	41 05.2		
		i	22.2							isP	21.7		
		ePP	08 36							i	28.0		
	KEV	eP	14 04 59							iPP	48.0		
		i	05 25.4							isPP	42 45.0		
		ePP	08 36							eS	45 54		
		eSKS	15 30							ePcS	46 16		
		eS	44							esS	47 00		
		e	16 12							KJN iP	19 40 20.3 U		
		ePPS	17 14							ipP	41 03.4		
		e	18 56							isP	25.5		
		eSS	22 38							ePP	49		
		e	23 56							iPcP	42 31.5		
										iS	45 56.0		
										isS	47 12.0		
										OUL iP	19 40 30.4		
										eS	46 23		
										SOD iP	19 40 36.6 U		
										ipP	41 20.3		
										isP	42.0		
										ePP	42 09		
										esPP	43 12		
										i	44 12.3		
										i	45 31.0		
										eS	46 26		
										esS	47 36		
										e	49 11		
										KEV iP	19 40 45.7 U		
										ipP	41 28.6		
										iPP	42 24.0		
										iPcP	45.6		
										esPP	43 22		
										eS	46 36		
										esS	47 54		
										H:	19 33 23.0		
											36.4 N, 70.7 E, 208 km (D)		
											Hindu Kush		
5	NUR	eP	16 24 22										
		i	42.0										
		eSKS	34 52										

cont.

March				March					
		T	A			T	A		
5	NUR eP	22	44 57	6	NUR iP	07	14 49.2	0.7	9.0
	KJN eP	22	44 32		KJN eP	07	14 23		
	OUL iP	22	44 16.8		OUL iP	07	14 21.0		
			46 38.1		SOD iP	07	14 05.7		
	SOD eP	22	44 01		H:	07 04	26.5		
	H:	22 41	10.7			51.4 N, 159.4 E,	depth N		
		71.1 N, 5.6 W,	depth N			Kamchatka			
		Jan Mayen Island			6	NUR iP	07 53 37.0	1.0	14.0
6	KJN eP	01	12 24		KJN iP	07 53	25.0	0.8	30.0
	OUL iP	01	12 25.1				31.7		
			31.1		OUL iP	07 53	28.7		
	SOD eP	01	12 17				36.6		
	KEV eP	01	12 12		SOD iP	07 53	24.3		
	H:	00 59	46.2				53		
		18.0 N, 147.4 E,	depth N		H:	07 41	31.2		
		Mariana Islands				15.8 N, 121.8 E,	depth N		
6	NUR e	01	19 19			Luzon, P.I.			
	eS		30 14	6	NUR e	17	10 34		
	KJN eP	01	19 01		OUL eP	17	09 58		
	OUL eP	01	19 06		KEV e	17	09 33		
			15				10 48		
			20.9		H:	17 03	23.7		
	SOD eP	01	18 59			72.2 N, 74.4 W,	depth N		
	H:	01 06	01.2			Baffin Island			
		4.2 N, 128.3 E,	39 km		6	NUR iP	19 30 19.5 U	1.0	20.0
		North of Halmahera				iPP	31 29.3		
6	NUR iP	01	33 57.5		KJN iP	19 30	46.0 U	1.0	33.8
	KJN iP	01	33 47.0		OUL iP	19 30	46.9		
			55.6				33 25.4		
	OUL iP	01	33 50.0		SOD iP	19 30	58.7 U		
	SOD iP	01	33 46.2				31 06.6		
			54.7				32.0		
	H:	01 20	46.7			ePP	32 28		
		4.2 N, 128.3 E,	depth N		H:	19 23	44.1		
		North of Halmahera				36.0 N, 10.6 W,	depth N		
6	NUR eP	01	59 45			North Atlantic Ocean			
	KJN eP	01	59 35	6	NUR eP	20	32 39		
	SOD iP	01	59 32.0		KJN eP	20	32 56		
	H:	01 46	37.7		OUL eP	20	33 11		
		3.9 N, 128.2 E,	82 km				34		
		North of Halmahera			6	NUR eP	20 32 39		
6	NUR eP	03	39 05		KJN eP	20 32 56			
	KJN iP	03	38 56.5		OUL eP	20 33 11			
	OUL eP	03	39 03				34		
	SOD eP	03	38 54		7	NUR iPKP	02 03 15.2		
	H:	03 25	55.1			OUL ePKP	02 03 09		
		4.3 N, 128.4 E,	depth N			H:	01 44	26.7	
		North of Halmahera				17.8 S, 175.4 W,	264 km		
						Tonga Islands			

March							March						
					T	A					T	A	
7	NUR	iP	08 33	21.5	U	0.6	40.0	8	NUR	eP	03 42	35	
		i	34	01.0					KJN	eP	03 43	02	
		i		11.4					OUL	eP	03 43	03	
	KJN	iP	08 33	08.2	U	0.7	65.8		H:	03 35	59.9		
		i		35.0					35.9 N, 10.4 W, depth N				
	OUL	iP	08 33	17.4					North Atlantic Ocean				
		i	34	07.2				8	NUR	iP	10 30	35.4	
	SOD	iP	08 33	15.6	U				i		42.0	0.6	
		i		19.0					ipP	31	16.6	23.8	
		e		53					iPP	33	01.8		
	KEV	iP	08 33	18.6	U	0.5	23.8		eS	39	05		
		i		52.2					e		16		
		i	34	11.9					KJN	iP	10 30	13.7	
	H: 08 26 57.5								i		19.7	0.7	
	49.8 N, 78.1 E, 0 km (G)								ipP		56.2	21.9	
	Eastern Kazakh SSR								iPP	32	32.0		
								iS	38	25.0			
7	NUR	eP	09 34	34				OUL	iP	10 30	14.3		
	OUL	eP	09 34	44				i		21.5			
	H: 09 27 35.5								ipP		58.3		
	36.4 N, 71.0 E, 195 km								iPP	32	32.0		
	Afghanistan-USSR border								SOD	iP	10 30	02.0	
								i		09.7			
7	NUR	eP	20 36	40				ipP		44.6			
	H: 20 26 12.8								ePP	32	14		
	2.6 S, 29.2 E, 22 km								KEV	eP	10 29	50	
	Lake Tanganyika								H: 10 20 09.3				
7	NUR	eSg	21 35	36				41.3 N, 139.6 E, 169 km					
	KJN	eSg	21 36	53				Hokkaido, Japan					
	OUL	iSg	21 36	51.2				8	NUR	eP	11 43	35	
	Uppsala:								KJN	eP	11 43	20	
	H: 21 33 08								SOD	eP	11 43	14	
	60.3 N, 15.0 E								H: 11 30 18.5				
	Sweden								4.0 N, 128.3 E, 59 km				
7	NUR	eP	23 08	33				North of Halmahera					
	KJN	iP	23 08	25.0				8	NUR	eP	12 02	59	
	OUL	iP	23 08	27.1					KJN	eP	12 02	51	
		ipP		42.0					OUL	eP	12 02	55	
	SOD	iP	23 08	22.0					SOD	eP	12 02	49	
		ipP		36.8					H: 11 49 49.8				
	H: 22 55 31.5								3.8 N, 128.2 E, 54 km				
	5.0 N, 127.7 E, 67 km								North of Halmahera				
	Philippine Islands								8	NUR	eP	12 57	55
8	NUR	eP	01 26	45									
	KJN	iP	01 26	10.0					8	OUL	eP	14 05	24
	OUL	iP	01 25	58.1					SOD	eP	14 05	22	
		eS		28 12									
	SOD	eP	01 25	30					8	NUR	ePKP	18 27	49
	KEV	eP	01 26	17					i		28 00.2	0.9	
		e		22					H: 18 27 49				
									20.2				

cont.

March						March					
				T	A						
				T	A						
	KJN	iPKP	18 27 52.2 U	1.1	29.7	ePP	06 16				
	OUL	iPKP	18 27 52.9			i	26.0				
	H: 18 09 01.8					eSKS	12 50				
	15.6 S, 173.7 W, 154 km					eS	13 52				
	Tonga Islands					e	16 52				
8	NUR	eP	21 19 35			e	18 12				
	KJN	iP	21 19 20.0			e	20 20				
	OUL	iP	21 19 23.8			eSS	21 12				
	SOD	eP	21 19 21			e	22 28				
	H: 21 06 17.0					e	24 20				
	2.3 N, 126.5 E, 42 km					e	26 20				
	Molucca Passage					eLQ	14 32.0				
						eLR	14 36.5				
9	NUR	eP	02 24 45			KJN	eP	14 01 53			
	KJN	eP	02 24 37			i	57.2				
	OUL	iP	02 24 38.0			iPP	06 06.0				
9	NUR	iP	11 45 15.8	0.7	11.6	OUL	iP	14 01 59.0			
	KJN	iP	11 44 51.4	0.8	11.5	iPP	06 03.0				
	OUL	iP	11 44 49.7			SOD	eP	14 01 52			
		i	45 10.8			i	55.3				
	SOD	iP	11 44 36.9			ePP	06 04				
	H: 11 35 30.4					eSS	20 34				
	48.1 N, 148.3 E, 388 km					KEV	eP	14 01 46			
	Kurile Islands					e	51				
9	NUR	eP	12 23 09			ePP	06 00				
	KJN	iP	12 22 45.0			eSKS	12 32				
	OUL	iP	12 22 39.3			eS	13 16				
	H: 12 12 30.6					ePS	14 56				
	52.7 N, 170.4 W, 67 km					e	16 48				
	Fox Islands					e	17 36				
9	KJN	iP	13 15 18.0			e	18 52				
	OUL	iP	13 15 17.1			eSS	20 20				
	SOD	eP	13 15 33			e	23 12				
	H: 13 08 16.5					eSSS	24 00				
	36.2 N, 10.5 W, depth N					eLQ	14 30.5				
	North Atlantic Ocean					eLR	14 35.5				
9	NUR	eP	13 19 43			H: 13 47 59.4					
	KJN	iP	13 19 34.0 U	0.8	14.6	4.1 S, 135.5 E, 14 km					
	OUL	iP	13 19 36.5			West New Guinea					
		i	43.3			9	NUR	iP	14 38 00.3		
	SOD	iP	13 19 35.3			i	12.2				
	KEV	eP	13 19 33			KJN	iP	14 37 40.0 D	0.8	16.9	
	H: 13 06 26.7					i	54.4				
	1.5 N, 126.3 E, 38 km					OUL	iP	14 37 40.7			
	Molucca Passage					i	44.2				
9	NUR	eP	14 02 03			iPcP	59.2				
	cont.					e	39 41				
						SOD	iP	14 37 31.2			
						i	46.5				
						KEV	eP	14 37 22			
						H: 14 26 18.9					
						31.2 N, 141.5 E, depth N					
						South of Honshu, Japan					

March				March			
		T	A			T	A
12	NUR iP	14 59	13.9				
	KJN eP	14 59	42				
	OUL iP	14 59	52.0				
	SOD iP	15 00	12.1				
	H: 14 54 05.3						
	36.8 N, 31.3 E, 97 km						
	Turkey						
12	KJN eP	15 07	23				
	OUL iP	15 07	59.8				
12	NUR iP	17 50	48.4				
	KJN iP	17 51	04.0	0.7	8.9		
	OUL iP	17 51	14.0				
	SOD eP	17 51	28				
	KEV eP	17 51	46				
	H: 17 43 34.1						
	28.3 N, 53.1 E, 16 km						
	Southern Iran						
12	NUR iP	20 35	44.2				
	KJN eP	20 35	20				
	SOD eP	20 35	11				
	KEV eP	20 35	03				
	H: 20 24 01.5						
	31.3 N, 141.7 E, 55 km						
	South of Honshu, Japan						
12	OUL eP	20 50	07				
12	NUR iP	22 46	54.0	1.1	14.3		
	KJN iP	22 46	43.2	0.8	8.5		
		ipP	47 04.3				
	OUL iP	22 46	45.2				
		epP	47 06				
	H: 22 34 17.1						
	10.1 N, 125.8 E, 76 km						
	Leyte, P.I.						
12	KJN iP	22 50	48.3				
13	KJN iP	00 24	47.0	0.7	5.5		
	OUL eP	00 24	50				
	SOD eP	00 24	47				
	H: 00 11 39.1						
	1.5 N, 126.3 E, depth N						
	Molucca Passage						
13	NUR eP	05 39	59				
	KJN iP	05 39	46.8				
	OUL iP	05 39	57.8				
	KEV eP	05 39	39				
13	OUL iP	08 19	55.5				
	SOD eP	08 19	27				
13	KJN iP	17 24	15.0			0.8	6.9
	SOD eP	17 23	57				
13	NUR iP	18 53	15.8			0.9	13.4
		i	36.2				
		ePP	55 27				
		ePPP	56 40				
		eS	19 00 56				
		eSS	04 44				
	KJN iP	18 52	52.5				
	OUL iP	18 52	43.2				
		iPcP	54 09.6				
		ePP	48				
	SOD iP	18 52	27.0				
	KEV iP	18 52	10.8			0.8	18.7
		eS	58 52				
		eSS	19 02 20				
	H: 18 43 48.9						
	63.5 N, 129.0 W, depth N						
	Northwest Territories, Canada						
13	NUR iP	20 52	31.4 U			1.3	71.6
		ePP	56 49				
		eS	21 02 48				
		esPS	07 20				
	KJN iP	20 52	26.3 U			1.0	114.5
		ePP	56 20				
		iS	21 02 36.9				
	OUL iP	20 52	30.5				
	SOD iP	20 52	30.2				
		ePP	56 25				
	H: 20 40 12.5						
	5.5 S, 110.4 E, 502 km						
	Java Sea						
13	SOD iP	20 59	20.7				
13	NUR eP	22 33	49				
		eSKKS	45 08				
		ePS	47 16				
		eSSS	57 08				
	KJN iP	22 33	52.3				
	KEV eSKS	22 44	08				
		eS	32				
	H: 22 19 37.2						
	8.0 S, 80.1 W, 38 km (D)						
	Northern Peru						

March						March					
				T	A						
						T			A		
14	NUR	eP	04 35 27				eS	09 56			
			H: 04 24 45.9				eSP	10 54			
			42.2 N, 141.9 E, depth N				esPS	12 04			
			Hokkaido, Japan				eSS	15 32			
							esSS	16 44			
14	KJN	ePn	06 29 35				iPKKP	17 36.0			
		eSn	31 07				H: 08 47 16.3				
	OUL	ePn	06 29 17				12.9 N, 86.8 W, 178 km (D)				
		e	23				Nicaragua				
		eSn	30 39								
	SOD	ePn	06 28 54			14	KJN	eP	11 41 17		
		eSn	29 56				OUL	iP	11 41 18.4		
	KEV	e	06 28 27				KEV	eP	11 41 03		
		eSn	29 13								
		e	27			14	NUR	iPKP	14 17 44.6	0.9	28.6
14	NUR	iP	08 59 51.0	1.2	28.5		i	57.9			
		ipP	09 00 38.8				KJN	ePKP	14 17 34		
		iPP	03 24.4				H: 13 58 22.3				
		e	56				28.5 S, 176.7 W, 126 km				
		epPP	04 08				Kermadec Islands				
		ePPP	05 20			14	NUR	eP	16 44 56		
		e	07 12				KJN	eP	16 44 57		
		eSKS	10 00			14	KJN	eP	22 16 39		
		eS	16				OUL	iP	22 16 39.4		
		eSP	11 12				H: 22 02 58.6				
		esPS	12 40				7.0 S, 129.7 E, 116 km				
		eSS	16 28				Banda Sea				
		iPKKP	17 28.0			14	NUR	eP	23 03 54		
		esSS	36				KJN	eP	23 03 40		
	KJN	eP	08 59 50				H: 22 52 13.8				
		epP	09 00 34				20.4 N, 121.8 E, 70 km				
		iPP	03 23.1				Philippine Islands				
		ePKKP	17 28			15	NUR	iP	03 12 43.0		
	OUL	iP	08 59 45.3				i	44.7	0.5	26.4	
		i	50.0				KJN	iP	03 12 21.0	0.5	9.6
		ipP	09 00 29.4				OUL	iP	03 12 19.7		
		ePP	03 12				SOD	iP	03 12 06.6		
		iPKKP	17 31.2				KEV	eP	03 11 56		
	SOD	iP	08 59 40.9				H: 03 01 58.5				
		epP	09 00 25				42.9 N, 144.9 E, depth N				
		ePP	03 01				Hokkaido, Japan				
		epPP	50								
		eS	10 02			15	NUR	iP	04 30 48.0 U	0.5	11.9
		ePS	11 04				KJN	iP	04 30 23.0 U	0.7	10.3
		iPKKP	17 33.3				OUL	iP	04 30 20.4		
	KEV	eP	08 59 38				SOD	iP	04 30 07.7 U		
		ipP	09 00 20.9				H: 04 21 26.4				
		iPP	03 00.6				50.8 N, 150.1 E, 520 km				
		epPP	52				Northwest of Kurile Islands				
		ePPP	04 52								
		e	07 20								
			cont.								

March						March					
				T	A						
						T			A		
KEV	eP	16 04	36	1.3	58.0		iSKP	16 48.3			
	i		37.8				ePKS	17 44			
	ipP		49.3			KJN	ePKP 01	14 07			
	eS	13 00					iSKP	16 35.1			
	eScS	14 24					i	40.1			
	eSS	16 52					ePKS	17 31			
	LZ			18	6.2u	OUL	iPKP 01	14 06.0			
	LN			18	2.1u		iSKP	16 33.6			
	LE			18	3.8u	SOD	eSKP 01	16 25			
H: 15 54 17.2						H: 00 56 06.2					
38.5 N, 142.7 E, 40 km						17.7 S, 179.9 E, 614 km (D)					
Honshu, Japan						Fiji Islands					
16	NUR	iP	16 06	34.8		17	NUR	iPKP 01	20 03.2	0.8	11.5
								eSKP	22 36		
16	NUR	iP	16 08	42.0	0.7	23.2	KJN	iPKP 01	19 55.8	0.7	7.5
	KJN	iP	16 08	20.4	0.8	26.9		eSKP	22 23		
	OUL	iP	16 08	21.0			OUL	ePKP 01	19 54		
		ipP		34.6				eSKP	22 21		
	SOD	iP	16 08	10.0			KEV	ePKP 01	19 46		
		ipP		23.8			H: 01 01 55.6				
	KEV	iP	16 08	00.8			17.8 S, 180.0 E, 625 km (G)				
		ipP		14.6			Fiji Islands				
H: 15 57 39.7						17	NUR	ePKP 01	48 06		
38.5 N, 142.6 E, 46 km (D)								i	16.0		
Honshu, Japan								eSKP	50 50		
16	NUR	eP	17 07	58				ePKS	51 46		
	KJN	eP	17 07	36			KJN	iPKP 01	48 08.0	0.6	16.4
		i		45.4				eSKP	50 36		
	OUL	eP	17 07	34				ePKS	51 32		
		i		43.0			OUL	iPKP 01	48 06.5		
		i		55.2				eSKP	50 34		
	SOD	eP	17 07	28			SOD	ePKP 01	48 03		
	KEV	eP	17 07	20			KEV	iPKP 01	47 59.3		
H: 16 57 07.0						H: 01 30 07.3					
41.0 N, 143.1 E, 38 km						17.6 S, 179.8 E, 615 km (D)					
Hokkaido, Japan						Fiji Islands					
16	NUR	iP	23 11	12.4 D	0.9	30.2	17	KJN	eP	07 41	27
	KJN	iP	23 10	57.7 D	0.9	53.6		OUL	iP	07 41	33.0
		ipP		11 35.7			17	KJN	iP	17 15	55.3
	OUL	iP	23 11	01.1				OUL	iP	17 15	49.3
	SOD	iP	23 10	56.4 D			18	OUL	ePKP 01	52 45	
	KEV	iP	23 10	52.8	0.7	15.5	H: 01 33 43.0				
H: 22 59 47.9						17.6 S, 167.3 E, 19 km					
21.9 N, 121.6 E, 145 km (G)						New Hebrides Islands					
Taiwan						18	OUL	ePKP 02	44 48		
17	NUR	ePKP 01	14 09				H: 02 26 18.1				
		i		15.0			12.1 S, 166.9 E, 192 km				
				cont.			Santa Cruz Islands				

March				T	A	March				T	A
18	NUR	ePKP	03 44 50			18	KJN	iP	10 40 28.2		
		ePKS	48 19					OUL	eP	10 40 31	
		e	49 16					SOD	eP	10 40 26	
		eSS	04 05 00					H: 10 29 14.4			
	KJN	iPKP	03 44 48.2	1.1	16.2			23.9 N, 123.2 E, depth N			
		ePP	47 05					Southwestern Ryukyu Islands			
		ePKS	48 05								
	OUL	iPKP	03 44 47.0								
	SOD	ePKP	03 44 41			18	NUR	iP	16 27 28.3 D	1.0	140.0
	KEV	ePKP	03 44 41					ipP	41.0		
	H: 03 25 31.8							isP	51.7		
	21.4 S, 171.1 E, 15 km							i	28 09.0		
	Loyalty Islands							ePP	29 51		
								ePPP	31 20		
18	NUR	ePKP	03 52 13					eS	36 12		
		ePKS	55 43					e	38 52		
		eSS	04 12 20					eSS	40 44		
	KJN	ePKP	03 52 07				KJN	iP	16 27 04.9 D	1.3	245.2
		ePKS	55 25					ipP	17.6		
	OUL	iPKP	03 52 03.7					isP	28.1		
	KEV	ePKP	03 51 54					iPcP	38.9		
		e	54 56					iPP	29 27.3		
		ePPS	04 05 48					ePPP	31 02		
		eSS	11 00					eS	35 38		
	H: 03 32 50.8						OUL	iP	16 27 02.5		
	21.4 S, 170.9 E, depth N							ipP	15.2		
	Loyalty Islands							isP	25.5		
								i	28 20.3		
18	NUR	ePKP	04 00 48				SOD	iP	16 26 50.3		
		ePKS	04 16					ipP	27 03.0		
	KJN	ePKP	04 00 38					isP	13.6		
		i	50.6					ePcP	30		
	OUL	ePKP	04 00 32					ePP	29 08		
		i	41.7				KEV	iP	16 26 38.0 D	0.8	69.1
	SOD	ePKP	04 00 27					ipP	51.0		
	H: 03 41 22.7							isP	27 00.8		
	15.2 S, 173.5 W, 39 km							ePPP	30 12		
	Tonga Islands							eS	34 40		
								eSS	38 40		
								H: 16 16 39.6			
								44.1 N, 151.0 E, 44 km (D)			
								Kurile Islands			
18	KJN	eP	04 24 52								
	OUL	eP	04 24 56								
	SOD	eP	04 24 51								
	H: 04 17 34.6										
	36.0 N, 10.5 W, 23 km										
	North Atlantic Ocean										
18	NUR	iP	05 19 48.6	0.8	8.6	18	NUR	eP	19 55 57		
	KJN	iP	05 19 23.0					e	56 05		
		ePcP	20 12				KJN	iP	19 55 38.0	0.7	5.5
	OUL	iP	05 19 20.8					OUL	iP	19 55 29.4	
	SOD	iP	05 19 07.6						i	33.2	
	H: 05 09 09.6							SOD	iP	19 55 16.1	
	47.1 N, 153.9 E, 35 km (G)							H: 19 45 01.1			
	Kurile Islands							50.1 N, 129.7 W, depth N			
								Vancouver Island			

March						March						
				T	A					T	A	
18	NUR	iP	20 42 24.0	U	1.0	16.0	19	NUR	eP	06 42 57		
		eS	51 28					KJN	eP	06 42 45		
		eScS	52 24					OUL	iP	06 42 56.0		
		eSS	56 28					H: 06 30 09.1				
		eSSS	59 12					7.0 N, 126.5 E, 115 km (G)				
	KJN	iP	20 42 05.0	U	1.0	17.4		Mindanao, P.I.				
		i	10.0				19	NUR	eP	10 22 26		
	OUL	iP	20 41 56.3						i	34.7		
	SOD	iP	20 41 42.3				19	NUR	iP	14 10 29.8	0.9	43.7
	KEV	eS	20 49 35						i	34.6		
		e	50 12						iPcP	44.0		
	H: 20 31 27.3								ipP	11 10.0		
	50.1 N, 130.0 W, depth N								isP	23.2		
	Vancouver Island								i	12 14.2		
18	NUR	ePKP	22 54 48						ePP	13 12		
		eSKP	58 44						esPP	14 08		
	KJN	ePKP	22 54 43						ePPP	52		
		eSKP	58 32						e	15 50		
	OUL	iPKP	22 54 47.5						eS	19 36		
		i	51.2						eScS	20 16		
	SOD	eSKP	22 58 23						eSS	23 40		
	KEV	eSKP	22 58 04					KJN	iP	14 10 12.7	D 0.7	38.4
	H: 22 35 30.2								iPcP	36.9		
	24.0 S, 176.0 W, 68 km								ipP	52.2		
	South of Fiji Islands								isP	11 06.3		
18	NUR	eP	23 04 36						i	27.2		
	KJN	iP	23 04 18.3	U	0.8	17.7			iPPP	14 18.3		
	OUL	iP	23 04 19.7						eS	19 03		
	SOD	iP	23 04 12.0						eScS	53		
	H: 22 53 18.4							OUL	iP	14 10 14.4		
	30.2 N, 131.2 E, 56 km								i	24.2		
	Kyushu, Japan								iPcP	39.0		
18	NUR	iP	23 40 56.0		0.6	6.3			ipP	54.8		
		ePcP	41 37						iPPP	14 27.0		
		ePP	43 24						eS	19 10		
		ePcS	45 44					SOD	iP	14 10 07.6		
		e	50 08						iPcP	33.1		
	KJN	eP	23 40 30						ipP	48.3		
		ePcP	41 20						esP	11 05		
	OUL	iP	23 40 27.2						ePP	12 13		
	SOD	iP	23 40 13.2						eScS	19 47		
	H: 23 30 41.2							KEV	iP	14 10 02.0	0.7	25.8
	50.7 N, 156.7 E, 90 km (G)								ePcP	29		
	Kurile Islands								ipP	42.3		
									ePP	12 32		
									epPP	13 08		
19	NUR	eP	06 22 36						eS	18 42		
	KJN	iP	06 22 25.0		0.8	6.9			eScS	19 32		
	OUL	eP	06 22 34						eSS	23 04		
	H: 06 09 42.1								H: 13 59 22.7			
	7.1 N, 127.2 E, 55 km (G)								28.8 N, 128.2 E, 136 km			
	Philippine Islands								Ryukyu Islands			

March				March			
			T	A		T	A
	eSSS	52 00			20	NUR eP	18 23 58
	LZ		20	12.9u		KJN eP	18 23 45
	LN		18	3.1u		OUL eP	18 23 38
	LE		18	6.5u		H: 18 12 00.0	
KJN	iP	16 31 36.0 D				37.0 N, 116.0 W, 0 km	
	i	50.5				Southern Nevada	
	iPP	35 00.4			20	NUR iP	18 26 54.8 0.7 18.1
	i	37 22.5				KJN iP	18 26 30.0 0.8 19.2
	eSKS	41 59				OUL iP	18 26 25.1
	iS	42 07.8				i	37.5
	i	46.8				SOD iP	18 26 09.6
	iPKKP	49 34.3				KEV iP	18 25 53.5 U 0.8 21.6
OUL	iP	16 31 39.3				H: 18 16 06.4	
	i	51.1				51.6 N, 174.9 W, 59 km	
	iPKKP	49 33.8				Andreanof Islands	
SOD	iP	16 31 34.7 D			20	NUR eP	20 35 17
	i	39.2				KJN iP	20 35 07.3
	e	34 49				i	15.0
	eSKS	41 58			20	NUR eP	21 00 11
	eS	42 09				H: 20 46 55.9	
	iPKKP	49 34.4				27.5 S, 66.0 E, depth N	
KEV	iP	16 31 31.2 D 1.5 224.2				South Indian Ocean	
	i	36.0			20	NUR eP	21 48 19
	i	46.0				OUL iP	21 48 02.3
	i	32 36.5				SOD iP	21 47 52.7
	ePP	35 00			20	KJN eP	23 17 39
	e	38 10			20	NUR iP	23 51 31.2 U 1.2 39.9
	eS	41 53				eSKS	24 01 48
	ePS	43 10				eS	02 14
	e	44 00				KJN iP	23 51 20.2
	eSS	48 10				e	36
	ePKKP	49 36				OUL iP	23 51 23.2
	H: 16 18 56.4					SOD iP	23 51 19.6
	8.7 N, 127.3 E, depth N					KEV eS	24 01 44
	Philippine Islands					H: 23 38 40.6	
20	NUR iP	16 51 10.0 0.8 10.1				8.8 N, 127.3 E, depth N	
	KJN iP	16 50 52.5				Philippine Islands	
	OUL iP	16 50 54.7			21	NUR ePKP	02 00 07
20	NUR eP	16 53 56				e	17
	KJN iP	16 53 45.0 D 0.9 8.9				KJN ePKP	02 00 07
	OUL eP	16 53 49				H: 01 41 02.7	
20	NUR iP	17 20 35.5 0.8 10.1				20.3 S, 169.8 E, 96 km	
	KJN iP	17 20 24.2 0.8 13.1				New Hebrides Islands	
	OUL iP	17 20 26.7					
	SOD iP	17 20 23.2					
	H: 17 07 44.3						
	8.7 N, 127.3 E, depth N						
	Philippine Islands						

March						March						
				T	A					T	A	
	KJN	iP	04 24 36.5	U	1.2	34.4	21	NUR	eP	04 56 52		
	OUL	iP	04 24 29.4					KJN	eP	04 56 39		
	SOD	eP	04 24 19					OUL	iP	04 56 34.5		
	KEV	iP	04 24 08.2					SOD	eP	04 56 22		
	H: 04 12 26.8							H: 04 44 28.8				
	31.2 N, 114.2 W, depth N							31.0 N, 114.5 W, depth N				
	Gulf of California							Gulf of California				
21	NUR	eP	04 29 54				21	NUR	iP	04 59 26.0	0.9	10.1
	KJN	eP	04 29 42					KJN	iP	04 59 14.2		
	OUL	iP	04 29 35.2						i	18.0		
21	NUR	eP	04 34 15					OUL	iP	04 59 07.5		
	KJN	eP	04 34 03						i	11.4		
	OUL	eP	04 33 55					SOD	eP	04 58 55		
	H: 04 21 54.2							KEV	eP	04 58 45		
	31.3 N, 114.3 W, depth N							H: 04 47 04.4				
	Gulf of California							31.2 N, 114.2 W, depth N				
	Gulf of California							Gulf of California				
21	NUR	eP	04 34 37				21	NUR	eP	05 02 07		
	KJN	eP	04 34 24					OUL	eP	05 01 48		
	OUL	eP	04 34 17									
21	NUR	iP	04 34 49.5				21	NUR	eP	05 08 40		
	KJN	iP	04 34 36.3						i	42.2		
	OUL	iP	04 34 29.3						i	44.9	1.1	61.9
	SOD	eP	04 34 19						i	09 38.0		
21	NUR	iP	04 38 45.2	U	1.0	22.0		KJN	eP	05 08 28		
		e	55						i	30.5		
	KJN	iP	04 38 33.3	U					i	33.0	1.3	104.2
	OUL	iP	04 38 25.8						e	09 08		
	SOD	iP	04 38 16.6					OUL	iP	05 08 20.3		
	KEV	eP	04 38 05						i	23.5		
	H: 04 26 24.0								i	25.5		
	31.2 N, 114.4 W, depth N							SOD	eP	05 08 11		
	Gulf of California								i	13.6		
									i	15.8		
21	NUR	eP	04 40 05					KEV	eP	05 08 02		
	OUL	eP	04 39 44						i	04.8	1.4	106.6
21	NUR	eP	04 42 23						eS	17 44		
									eSS	22 20		
								H: 04 56 20.3				
								31.2 N, 114.2 W, depth N				
								Gulf of California				
21	NUR	eP	04 44 17				21	NUR	iP	05 10 35.9		
								KJN	iP	05 10 23.9		
								OUL	iP	05 10 17.3		
21	NUR	eP	04 51 05				21	NUR	eP	05 12 14		
	KJN	iP	04 50 53.5									
	OUL	eP	04 50 46									
	H: 04 38 45.0											
	31.3 N, 114.2 W, depth N											
	Gulf of California											
							21	NUR	eP	05 12 37		
								KJN	iP	05 12 25.3		
								OUL	iP	05 12 19.0		

March				March				
			T	A			T	A
21	NUR eP	05 20 54				OUL iP	06 11 20.2	
	KJN eP	05 20 42				SOD eP	06 11 10	
	OUL iP	05 20 35.2				KEV eP	06 10 58	
						H: 05 59 19.1		
21	NUR iP	05 26 49.0	1.0	12.0		31.4 N, 114.2 W, depth N		
	KJN iP	05 26 34.0				Gulf of California		
	OUL iP	05 26 29.0						
	KEV eP	05 26 01			21	NUR iP	06 17 39.1	0.9 10.1
	H: 05 14 23.5					KJN iP	06 17 27.5	
	31.1 N, 114.5 W, depth N					i	29.6	
	Gulf of California					i	43.0	
						OUL iP	06 17 19.9	
21	NUR eP	05 39 28				i	22.5	
	OUL iP	05 39 10.0				SOD eP	06 17 10	
	H: 05 27 07.3					H: 06 05 16.8		
	31.1 N, 114.4 W, depth N					31.3 N, 114.0 W, 19 km		
	Gulf of California					Gulf of California		
21	NUR iP	05 41 49.0	1.0	10.0	21	NUR eP	06 21 56	
	KJN iP	05 41 37.0	1.1	8.1		KJN eP	06 21 44	
	OUL iP	05 41 30.3				OUL iP	06 21 37.3	
21	NUR eP	05 43 53			21	NUR eP	06 37 55	
	KJN eP	05 43 39				KJN iP	06 37 44.0	
	OUL iP	05 43 34.0				OUL iP	06 37 36.6	
	KEV eP	05 43 14				H: 06 25 34.2		
	H: 05 31 30.3					31.2 N, 114.0 W, depth N		
	31.1 N, 113.9 W, depth N					Gulf of California		
	Gulf of California				21	NUR iP	06 46 48.9	1.0 30.0
21	NUR iP	05 44 39.2				eS	57 06	
	KJN iP	05 44 27.0				eSS	07 02 48	
	OUL iP	05 44 20.1				eSSS	05 40	
21	NUR eP	05 52 18				KJN iP	06 46 36.5	1.2 48.2
	KJN iP	05 52 08.5	1.2	29.2		OUL iP	06 46 28.5	
	OUL iP	05 52 01.9				i	38.8	
	SOD eP	05 51 52				SOD iP	06 46 19.3	
	H: 05 39 56.4					KEV iP	06 46 08.2	
	31.4 N, 114.3 W, 29 km					eS	55 50	
	Gulf of California					eSS	07 00 52	
						H: 06 34 22.2		
21	NUR iP	06 03 04.0				31.1 N, 114.3 W, 4 km		
	KJN eP	06 02 52				Gulf of California		
	OUL iP	06 02 44.5			21	NUR iP	06 53 02.8	0.5 11.9
	SOD eP	06 02 38				KJN iP	06 52 40.0	0.6 8.9
	H: 05 50 43.8					OUL iP	06 52 38.7	
	31.3 N, 114.3 W, depth N					SOD iP	06 52 27.1 D	
	Gulf of California					KEV iP	06 52 15.0	
21	NUR iP	06 11 39.0	1.0	14.0		H: 06 42 20.4		
	KJN iP	06 11 27.0	1.0	16.4		43.4 N, 145.0 E, depth N		
						Hokkaido, Japan		

cont.

March						March					
			T	A			T	A			
21	NUR	eP	10 13 57			KJN	eP	12 36 11			
	KJN	eP	10 13 46			OUL	iP	12 36 04.5			
	OUL	iP	10 13 36.6			H:	12 24 00.1				
			H: 10 01 35.5			31.2 N, 114.2 W, 14 km					
			31.3 N, 114.0 W, depth N			Gulf of California					
			Gulf of California								
21	NUR	iP	10 22 36.2	1.0	32.0	21	KJN	eP	13 22 24		
		eS	32 56				H:	13 10 10.9			
	KJN	iP	10 22 24.0	1.3	82.5	31.5 N, 114.0 W, depth N					
	OUL	iP	10 22 17.4			Gulf of California					
	SOD	iP	10 22 07.6			21	NUR	eP	14 41 57		
	KEV	iP	10 21 55.9	0.9	20.2		KJN	iP	14 41 43.3	0.7	6.9
		eS	31 36				OUL	iP	14 41 35.9		
			H: 10 10 10.7				SOD	eP	14 41 25		
			31.2 N, 114.3 W, 5 km				H:	14 30 00.0			
			Gulf of California				37.1 N, 116.1 W, 0 km				
			Gulf of California				Southern Nevada				
21	NUR	iP	10 36 46.5	1.0	28.0	21	NUR	eP	15 14 36		
	KJN	iP	10 36 35.5	0.9	27.7		KJN	eP	15 14 20		
	OUL	iP	10 36 38.8				H:	15 02 13.6			
		i	47.8			31.1 N, 114.2 W, depth N					
	SOD	eP	10 36 34			Gulf of California					
			H: 10 23 53.0			21	NUR	iP	16 10 08.0	1.0	18.0
			8.5 N, 127.3 E, depth N				KJN	iP	16 09 56.2	1.1	23.0
			Philippine Islands				OUL	iP	16 09 49.9		
21	NUR	eP	11 10 28				SOD	eP	16 09 38		
			H: 10 58 08.1				KEV	iP	16 09 28.3		
			31.3 N, 114.0 W, depth N				H:	15 57 42.0			
			Gulf of California				31.2 N, 114.3 W, 2 km				
			Gulf of California				Gulf of California				
21	NUR	eP	12 15 40			21	NUR	eP	16 42 02		
		ePcP	16 18				KJN	eP	16 41 49		
	KJN	eP	12 15 15				OUL	eP	16 41 42		
		iPcP	16 05.0				H:	16 29 40.4			
	OUL	iP	12 15 13.0			31.3 N, 114.1 W, depth N					
		iPcP	55.7			Gulf of California					
	SOD	eP	12 14 58			21	NUR	eP	17 27 20		
	KEV	eP	12 14 51								
			H: 12 05 16.3			21	NUR	eP	18 08 10		
			49.6 N, 155.6 E, 50 km (G)				KJN	eP	18 07 57		
			Kurile Islands				H:	17 55 47.2			
			Kurile Islands			31.3 N, 114.1 W, depth N					
			Kurile Islands			Gulf of California					
21	NUR	eP	12 32 16			21	NUR	eP	18 12 44		
	OUL	eP	12 31 56				KJN	eP	18 12 30		
			H: 12 19 54.0				cont.				
			31.2 N, 114.0 W, depth N				cont.				
			Gulf of California				cont.				
			Gulf of California				cont.				
21	NUR	eP	12 36 24				cont.				
			cont.				cont.				

March						March					
				T	A					T	A
	KEV	iP	07 37 20.8 D	1.0	44.0	22	NUR	eP	14 33 53		
		eS	47 04				KJN	eP	14 33 12		
	H:		07 25 35.6				OUL	iP	14 33 04.1		
			31.4 N, 114.1 W, depth N				SOD	iP	14 32 41.0		
			Gulf of California				KEV	eP	14 32 18		
22	NUR	iP	10 48 55.8	1.0	10.0	22	NUR	ePKP	15 43 26		
								e	59 14		
22	NUR	eP	11 32 49					eSS	16 03 32		
	OUL	eP	11 32 30				KJN	iPKP	15 43 19.8	1.0	13.1
	H:		11 20 29.2				OUL	iPKP	15 43 18.6		
			31.4 N, 114.1 W, depth N				H:		15 24 14.5		
			Gulf of California						15.3 S, 176.3 W, depth N		
									Fiji Islands		
22	NUR	e	12 32 40			22	NUR	eP	17 44 28		
	OUL	ePKP	12 32 32					e	47 49		
	H:		12 13 15.8					ePP	48 16		
			15.1 S, 173.9 W, 46 km					eS	55 30		
			Tonga Islands					eSS	18 02 04		
22	NUR	eP	13 02 55					eSSS	05 48		
	KJN	iP	13 02 44.2	0.6	6.9		KJN	iP	17 44 16.8		
	OUL	iP	13 02 44.8				OUL	iP	17 44 22.8		
	KEV	eP	13 02 15					ePP	48 11		
22	NUR	iP	13 46 52.3 U	0.8	17.3		SOD	eP	17 44 18		
		e	47 38					e	47 22		
	KJN	iP	13 46 28.5	0.7	13.0		KEV	eSKS	17 55 16		
		i	47 17.0					ePS	57 16		
	OUL	iP	13 46 26.3					eSS	18 01 32		
		i	36.5				H:		17 31 07.0		
	SOD	iP	13 46 15.7 U						0.7 S, 122.5 E, 42 km		
	KEV	iP	13 46 04.0						Northern Celebes		
		e	47 08			22	NUR	iP	18 05 45.0	1.0	20.0
	H:		13 36 06.1				KJN	iP	18 06 19.5	1.0	14.2
			43.4 N, 147.4 E, 40 km (G)					e	38		
			Kurile Islands				OUL	iP	18 06 29.4		
22	NUR	ePKP	13 50 22					i	07 44.8		
		ePKS	53 54				H:		18 00 54.5		
		ePPS	14 04 16						39.1 N, 28.6 E, depth N		
		eSS	10 36						Turkey		
	OUL	ePKP	13 50 09			22	NUR	iP	18 35 24.0		
	H:		13 31 07.8				KJN	eP	18 35 12		
			16.5 S, 177.5 W, depth N				OUL	iP	18 35 04.9		
			Fiji Islands				H:		18 23 02.1		
22	NUR	eP	14 16 16						31.5 N, 114.2 W, 18 km		
	KJN	iP	14 16 06.0						Gulf of California		
		i	19.0			23	NUR	iP	00 20 37.4	1.1	11.9
22	SOD	iP	14 32 20.4				KJN	eP	00 21 10		

cont.

March				March			
			T	A		T	A
	OUL	iP	00 21 20.9				
	H:	00 15 45.6					
	39.2 N, 28.5 E, depth N Turkey						
23	NUR	eP	00 59 37				
	KJN	iP	00 59 26.0	0.7	8.2		
	OUL	iP	00 59 30.8				
23	NUR	eP	01 14 57				
23	NUR	iPKP	02 26 14.0				
		iSKP	29 10.7				
	KJN	ePKP	02 26 04				
		i	13.0				
		iSKP	29 00.0				
		ePKS	46				
	OUL	iPKP	02 26 03.2				
		i	14.1				
		i	22.0				
		iSKP	28 58.6				
	SOD	ePKP	02 26 05				
		eSKP	28 52				
	H:	02 07 52.6					
	24.8 S, 179.8 E, 550 km (G) South of Fiji Islands						
23	NUR	iP	03 55 46.1				
	KJN	eP	03 56 22				
		e	30				
	OUL	eP	03 56 31				
23	KJN	eP	04 30 12				
	OUL	iP	04 30 20.7				
	H:	04 21 31.4					
	24.4 N, 68.7 E, 15 km India-West Pakistan border						
23	NUR	eP	11 25 02				
	OUL	eP	11 24 43				
	H:	11 12 42.0					
	31.4 N, 114.1 W, depth N Gulf of California						
23	NUR	e	11 44 51				
	OUL	iP	11 44 34.5				
	H:	11 32 22.4					
	31.4 N, 115.0 W, depth N Baja California						
23	NUR	eP	11 59 49				
	KJN	eP	11 59 36				
	cont.						
	OUL	iP	11 59 29.6				
	SOD	eP	11 59 20				
	H:	11 47 29.1					
	31.4 N, 114.1 W, depth N Gulf of California						
23	NUR	eP	12 01 54				
	KJN	eP	12 01 35				
	OUL	iP	12 01 33.8				
23	NUR	iP	12 02 37.7			0.9	15.1
		eSKS	13 10				
		ePS	14 20				
		e	16 20				
		eSS	19 12				
		e	22 00				
	KJN	iP	12 02 40.0				
	OUL	iP	12 02 35.0				
	SOD	iP	12 02 32.8				
	KEV	eP	12 02 31				
		eS	13 12				
		eSSS	22 52				
	H:	11 49 35.6					
	6.2 N, 77.8 W, 24 km Colombia						
23	NUR	eP	12 12 20				
	KJN	iP	12 12 38.8				
	SOD	iP	12 12 46.6				
	H:	12 01 01.5					
	0.9 N, 26.0 W, depth N Central Mid-Atlantic Ridge						
23	NUR	eP	14 02 29				
	KJN	eP	14 02 13				
	OUL	iP	14 02 17.8				
	SOD	eP	14 02 09				
23	NUR	iP	15 51 27.3			1.0	24.0
	KJN	iP	15 51 14.0			1.0	17.4
	OUL	iP	15 51 06.7				
	SOD	eP	15 50 56				
	KEV	eP	15 50 48				
	H:	15 39 01.1					
	31.5 N, 114.1 W, 16 km Gulf of California						
23	NUR	eP	15 53 10				
	OUL	eP	15 52 50				
23	NUR	eP	17 17 35				
	KJN	eP	17 17 27				
		i	34.8				
	OUL	iP	17 17 36.7				

March		T	A	March		T	A
	OUL ePKP 04 51 30 H: 04 33 23.2 16.8 S, 69.8 W, 175 km Peru-Bolivia border				KJN iP 14 24 13.9 U i 25.5 iPP 58.8 OUL iP 14 24 22.5 SOD iP 14 24 43.9 ePcP 27 55 KEV iP 14 25 05.6 ePP 26 01 H: 14 18 50.8 39.2 N, 28.4 E, 23 km Turkey	1.1	48.6
25	NUR iPKP 07 28 59.4 i 29 09.6 OUL iPKP 07 28 57.0 H: 07 09 23.3 30.2 S, 177.3 W, 40 km Kermadec Islands	0.7 0.9	19.4 38.6			1.0	38.0
25	NUR iP 13 25 59.5 i 26 02.1 KJN iP 13 26 34.5 i 38.3 OUL iP 13 26 42.9 i 46.0 SOD iP 13 27 04.4 H: 13 21 10.4 39.0 N, 28.5 E, 23 km Turkey	1.0 1.1	52.0 70.2	25	OUL eP 14 27 06 SOD eP 14 41 40 NUR eP 14 45 16 OUL eP 14 46 00 H: 14 40 19.9 38.5 N, 29.3 E, 25 km Turkey		
25	NUR iP 13 26 20.7 D i 23.5 e 27 00 eS 30 12 KJN iP 13 26 55.5 i 27 08.9 iS 31 17.0 OUL iP 13 27 04.0 iPP 44.4 eS 31 45 e 32 01 SOD iP 13 27 25.7 eS 32 12 KEV iP 13 27 47.1 U i 28 11.8 i 34.0 e 32 36 eS 48 e 33 36 eLR 13 35.0 H: 13 21 32.4 39.2 N, 28.4 E, 23 km Turkey	1.2	342.0	25	NUR eP 15 24 20 NUR eP 15 54 44 OUL eP 15 54 42 NUR iP 16 18 17.0 i 19 11.0 KJN iP 16 18 51.4 OUL iP 16 19 00.8 SOD eP 16 19 21 H: 16 13 27.2 39.1 N, 28.3 E, 17 km Turkey	1.0	13.1
				25	NUR eP 19 05 59 SOD eP 19 07 28 NUR eP 01 31 51 NUR eP 03 36 13 i 32.5 eS 40 10 KJN iP 03 36 49.0 OUL iP 03 36 56.3 H: 03 31 24.2 39.1 N, 28.4 E, 23 km Turkey	1.1	14.9
25	NUR iP 14 23 38.8 i 42.7 eS 27 36 cont.	0.7	19.4	26	NUR ePKP 04 47 39 H: 04 29 08.6 6.4 S, 154.9 E, 88 km Solomon Islands		

March				March					
		T	A			T	A		
26	NUR ePKP	09 43	51	26	NUR iP	17 49	52.0 D	0.9	25.2
	KJN ePKP	09 43	42		i	50	04.3		
	H: 09 24	19.8			KJN ePKP	17 49	40		
	24.6 S, 176.2 W,	50 km (G)			i	50	11.5		
	South of Fiji Islands				OUL iP	17 49	40.5		
26	OUL iP	11 13	09.3		e	52			
	H: 11 04	06.3			H: 17 30	11.4			
	65.6 N, 150.0 W,	32 km			33.1 S, 178.9 W,	47 km			
	Alaska				South of Kermadec Islands				
26	NUR eP	12 07	47	26	NUR eP	18 57	44		
	e		55		KJN iP	18 57	33.7	0.6	7.5
	eS	12 43			i		45.7		
	KJN eP	12 08	04		OUL iP	18 57	32.5		
	i	13 38.5		26	NUR eP	19 35	02		
	OUL eP	12 08	00		KJN eP	19 34	51	0.9	14.3
	e		52		OUL eP	19 34	53		
	ePP	09 04			e	35 03			
	SOD eP	12 08	17		H: 19 22	09.0			
	Moscow:				8.6 N, 127.6 E,	31 km			
	H: 12 01	50.0			Philippine Islands				
	39.5 N, 54.4 E			26	NUR iP	19 43	46.7		
	Turkmen SSR				i		49.0		
26	NUR eP	13 30	33		KJN iP	19 43	35.9	0.8	6.9
					i		39.1		
26	NUR eP	15 39	45		OUL eP	19 43	42		
	i		51.0		H: 19 30	54.1			
	i	40 22.2			8.8 N, 127.5 E,	21 km			
	eS	49 44			Philippine Islands				
	eSP	50 22		26	NUR i(P)	21 02	47.8		
	eSS	55 20			i		52.1		
	eSSS	58 20			KJN e(P)	21 02	39		
	KJN iP	15 39	32.5	1.0	12.0	i	55.6		
	i		38.9		OUL eP	21 02	25		
	OUL iP	15 39	41.7		e		34		
	i	40 05.2			H: 20 50	02.9			
	SOD eP	15 39	32		27.1 N, 112.1 W,	depth N			
	KEV eS	15 49	12		Baja California				
	eSS	54 40		27	NUR iP	03 30	04.0	0.6	8.8
	H: 15 27	40.6			KJN iP	03 29	56.8	0.7	8.2
	16.2 N, 122.2 E,	36 km			OUL iP	03 29	55.8		
	Luzon, P.I.				H: 03 11	32.8			
26	NUR eP	16 15	47		12.3 S, 167.0 E,	246 km			
					Santa Cruz Islands				
26	NUR eP	17 19	04	27	NUR eP	04 59	38		
	H: 17 13	35.7			e	05 02	41		
	35.2 N, 27.7 E,	depth N			ePP	03 36			
	Dodecanese Islands				eS	10 40			

cont.

March			T	A	March			T	A
KJN	eP	04 59 31			SOD	eP	11 26 43		
	i	35.2			KEV	eP	11 26 53		
	i	05 02 23.4			H:	11 19 29.3			
OUL	eP	04 59 29				39.0 N, 71.9 E, 37 km			
SOD	iP	04 59 26.3				Tadzhik SSR			
	i	30.0							
	e	05 02 23			27	NUR	iP	12 54 43.0 U	
KEV	ePP	05 03 08				i	47.1		
	eS	10 20				e	56 10		
	ePS	11 00				ePP	58 36		
	ePPS	12 10				ePPP	13 00 26		
H:	04 46 26.1					e	04 36		
	3.9 N, 128.5 E, depth N					eSKS	05 24		
	North of Halmahera					eS	44		
27	NUR	iP	05 36 18.6	0.7	5.3	e	06 12		
27	NUR	iP	06 22 34.0	1.0	26.0	ePS	07 00		
	eSS	36 36				ePKKP	11 55		
KJN	iP	06 22 14.6 U	1.5	66.6		eSS	12 04		
OUL	eP	06 22 15				eSSS	15 24		
SOD	eP	06 22 05				eLQ	13 20.0		
KEV	eP	06 21 56			KJN	iP	12 54 32.4 U	1.0	54.5
H:	06 10 50.6					i	48.6		
	31.0 N, 141.6 E, 28 km					iPP	58 09.5		
	South of Honshu, Japan					iPPP	13 00 18.4		
27	NUR	iP	06 22 07.9			eSKS	05 00		
	e	23 45				iS	19.2		
OUL	iP	06 22 44.6				ePS	06 33		
SOD	eP	06 23 10			OUL	iP	12 54 35.2		
H:	06 15 29.9					i	49.9		
	27.5 N, 33.9 E, depth N					ePP	58 26		
	United Arab Republic					eSKS	13 05 10		
27	NUR	iP	08 35 15.5			ePKKP	12 08		
KJN	iP	08 35 00.7	0.6	18.5	SOD	iP	12 54 31.6 U		
OUL	iP	08 35 00.6				iPP	58 11.7		
SOD	iP	08 34 53.7				eSKS	13 04 58		
H:	08 23 13.6					eS	05 20		
	19.5 N, 144.6 E, 383 km					ePS	58		
	Mariana Islands					ePPS	06 54		
27	NUR	iP	11 26 30.0			eSS	11 34		
	ipP	42.6			KEV	iP	12 54 29.2	0.9	37.0
	eS	32 15				i	35.0		
KJN	iP	11 26 27.7	0.8	8.5		e	55 48		
	i	42.7				e	57 24		
	iPP	27 39.0				ePP	58 08		
OUL	iP	11 26 36.9				e	59 22		
	i	42.8				e	13 04 12		
	cont.					eSKS	50		
						eS	05 16		
						ePS	40		
						e	07 16		
						cont.			

March				March			
		T	A		T	A	
	eSS	11 00			eS	02 00 00	
	LZ		22	50.0u	H: 01 48 30.4		
	LN		22	16.3u	38.6 N, 28.4 E, 9 km		
	LE		21	28.8u	Turkey		
	H: 12 41 35.9						
	4.8 N, 127.5 E, 32 km						
	Talau Islands						
27	NUR eP	13 09 43			28	NUR eP	02 26 47
	KJN eP	13 09 27				KJN eP	02 26 34
	SOD iP	13 09 10.1				H: 02 14 24.9	
						31.0 N, 114.0 W, depth N	
						Gulf of California	
27	NUR eP	18 11 47			28	NUR iP	03 18 29.8
	i	51.5				ipP	50.0
	KJN iP	18 12 23.1	1.1	13.5		KJN iP	03 18 10.7 D
	H: 18 07 00.3					epP	30
	39.1 N, 28.5 E, 29 km					OUL iP	03 18 09.8
	Turkey					ipP	29.9
						SOD iP	03 18 01.1
27	NUR iP	19 44 44.6				ipP	20.5
	i	58.1				H: 03 07 09.6	
	iPP	46 04.5				33.3 N, 140.3 E, 78 km (D)	
	KJN iP	19 44 42.8	0.7	5.3		South of Honshu, Japan	
	OUL iP	19 44 51.9			28	NUR iP	05 45 12.8
	SOD iP	19 44 57.6				KJN eP	05 45 47
	H: 19 37 44.1					OUL eP	05 45 52
	39.0 N, 71.8 E, depth N					H: 05 40 10.0	
	Tadzhik SSR					38.2 N, 29.0 E, 3 km	
						Turkey	
27	NUR eP	21 00 21			28	NUR iP	09 36 24.0
	H: 20 47 24.5					e	37 10
	16.2 N, 146.1 E, 66 km (D)					KJN iP	09 36 08.8
	Mariana Islands					ipP	48.5
28	NUR ePKP	01 39 00				OUL iP	09 36 08.1
	OUL ePKP	01 38 51				ipP	48.4
	H: 01 19 43.7					SOD iP	09 36 00.7
	21.8 S, 169.8 E, depth N					epP	40
	Loyalty Islands					KEV iP	09 35 53.6
						ipP	36 33.0
28	NUR iP	01 53 26.0				H: 09 24 15.8	
	i	30.0				22.6 N, 142.9 E, 169 km	
	eS	57 26				Volcano Islands	
	KJN iP	01 54 01.9 D			28	NUR iP	10 07 04.2
	OUL iP	01 54 09.2				i	07.3
	SOD iP	01 54 31.2				eS	11 08
	ePcP	57 41				KJN iP	10 07 39.0 U
	eS	59 20				e	12 13
	KEV iP	01 54 53.7 U	1.0	150.0		OUL iP	10 07 47.4
	i	55 29.3				SOD iP	10 08 09.0
	iPP	56.0					
	e	57 00					
		cont.					cont.

March						March					
				T	A					T	A
	KEV	iP	10 08 30.3	1.0	42.0	29	KJN	iP	01 54 14.0	1.0	19.6
		eS	13 40				OUL	eP	01 54 30		
							SOD	eP	01 54 45		
	H: 10 02 16.7										
	39.1 N, 28.4 E, depth N										
	Turkey										
28	NUR	eP	10 40 40			29	KJN	eP	04 04 42		
							SOD	eP	04 04 46		
28	NUR	iP	10 56 29.5			29	NUR	eP	07 13 32		
							KJN	iP	07 13 11.3 D	0.9	13.4
							OUL	iP	07 13 14.2		
28	SOD	eP	12 41 21				SOD	eP	07 13 09		
							KEV	eP	07 13 06		
28	NUR	iP	15 32 03.4	0.9	10.1	29	NUR	iP	09 24 46.6 U	2.0	623.4
		eS	42 20				i		50.8		
		eSS	47 50				i		25 03.0		
		eSSS	50 44				ePcP		26 03		
	KJN	iP	15 31 52.0	0.9	9.8		ePP		48		
	OUL	iP	15 31 43.8				ePPP		27 40		
	SOD	eP	15 31 35				e		29 48		
	KEV	eP	15 31 21				eS		32 00		
		eScS	41 20				e		34 20		
		eSS	46 10				eSS		35 40		
	H: 15 19 40.4						KJN	iP	09 25 08.0 U	1.9	717.9
	31.5 N, 114.3 W, depth N						i		25.5		
	Gulf of California						i		38.0		
28	KJN	eP	22 18 39				iS		32 41.0		
	OUL	eP	22 18 52				e		33 05		
						OUL	iP	09 25 16.2			
							i		19.1		
28	NUR	eP	23 01 55				i		33.3		
		eS	06 48				SOD	iP	09 25 31.1		
	KJN	eP	23 01 56	0.8	12.3		e		29 10		
	OUL	iP	23 01 47.1				eS		33 26		
	SOD	eP	23 01 46				eSS		37 16		
	H: 22 55 59.1						KEV	iP	09 25 48.1 U	1.7	318.2
	57.8 N, 32.7 W, depth N						e		26 49		
	North Atlantic Ocean						ePPP		29 24		
							eS		33 56		
29	NUR	iP	01 48 01.6	0.7	16.4		eScS		35 36		
		i	12.0				eSS		37 48		
		iS	51 35.6				H: 09 15 54.1				
		i	51.3				12.0 N, 41.2 E, depth N				
	KJN	eP	01 48 37				Ethiopia				
		i	47.5			29	NUR	iP	11 13 45.9	1.5	114.0
		eS	52 37				i		57.9		
	OUL	eP	01 48 43				i		14 14.2		
		i	47.6				i		25.5		
	SOD	eP	01 49 03				eS		20 56		
	H: 01 43 39.0						KJN	iP	11 14 06.8	1.3	169.3
	40.0 N, 15.2 E, 310 km						i		19.4		
	Southern Italy								cont.		

March				March			
				T	A		
		iPcP	15 13.8			ePP	14 00 23
OUL	iP	11 14	14.9			e	03 43
	i		26.8			e	06 00
	i		54.5			eS	16
SOD	iP	11 14	30.9			eSS	10 12
KEV	iP	11 14	46.9	1.5	186.8	KJN	iP 13 58 43.8 U 1.2 135.9
	ePPP	18 24					iPcP 59 37.8
	eS	22 57					iPP 14 00 51.7
H: 11 04 47.9							ePPP 02 11
12.0 N, 41.3 E, 4 km						OUL	iP 13 58 52.2
Ethiopia							i 59.0
29	NUR	iP	11 16 23.0	1.0	29.4		iPcP 59 42.7
		ePcP	17 45				iPP 14 01 03.3
		ePP	18 24			SOD	iP 13 59 04.5 U
		eS	23 36				i 11.0
KJN	iP	11 16	43.8 D 1.3 102.0				i 18.0
		iPcP	17 56.0				iPcP 49.8
OUL	iP	11 16	51.8				iPP 14 01 16.1
SOD	iP	11 17	08.1 U			KEV	iP 13 59 17.5 U 0.9 112.6
KEV	iP	11 17	24.2 U 1.0 30.0				i 24.5
		ePPP	21 00				i 14 01 06.4
		eS	25 35				eS 07 44
		eSS	29 12			H: 13 48 57.6	
H: 11 07 30.0						10.4 N, 56.8 E, depth N	
12.0 N, 41.2 E, depth N						Carlsberg Ridge	
Ethiopia						29	NUR eP 15 46 34
29	NUR	ePKP	12 53 26				KJN eP 15 46 24
	KJN	ePKP	12 53 19				OUL eP 15 46 29
H: 12 34 03.3							SOD eP 15 46 25
20.9 S, 174.1 W, 35 km						29	NUR eP 18 39 35
Tonga Islands							KJN eP 18 39 57
29	NUR	iP	13 17 09.2	1.1	41.9		e 40 04 0.8 9.2
		i	13.2				OUL eP 18 40 11
		ePS	24 32			H: 18 30 42.2	
KJN	iP	13 17	30.2 D 1.1 68.9			12.0 N, 41.4 E, depth N	
		ePcP	18 40			Ethiopia	
OUL	iP	13 17	38.9			29	NUR iP 21 42 15.0
	i		42.5				KJN iP 21 42 25.8 1.1 18.9
SOD	iP	13 17	54.2				OUL eP 21 42 31
KEV	iP	13 18	10.9	1.0	50.0		KEV eP 21 42 55
		eS	26 28			30	NUR eP 02 41 17
H: 13 08 11.4							KJN i 02 41 39.0
11.9 N, 41.5 E, 4 km							SOD eP 02 41 41
Ethiopia						H: 02 29 56.5	
29	NUR	iP	13 58 30.0 U 1.1 118.8			0.6 N, 26.0 W, depth N	
		i	36.6			Central Mid-Atlantic Ridge	
		iPcP	59 29.5			30	NUR eP 03 04 51
			cont.				cont.

March

March

			T	Δ	
	KJN e	03 05 16			
	SOD e	03 05 14			
	H: 02 53 41.1				
	8.1 N, 38.8 W, depth N				
	Central Mid-Atlantic Ridge				
30	NUR eP	05 01 15			
	OUL eP	05 01 03			
30	NUR eP	07 24 08			
	KJN iP	07 23 58.2			
	OUL eP	07 24 06			
	SOD e	07 24 06			
	i	07.8			
	H: 07 11 04.3				
	4.5 N, 128.0 E, 70 km (G)				
	North of Halmahera				
30	NUR iP	08 08 17.0	1.4	28.1	
	ipP	26.2			
	ePP	11 58			
	eS	19 08			
	ePPS	20 56			
	eSS	25 10			
	KJN iP	08 08 06.0	1.3	32.6	
	ipP	17.0			
	e	11 30			
	iS	18 58.0			
	OUL eP	08 08 08			
	i	18.9			
	ePP	11 45			
	SOD iP	08 08 04.7			
	ipP	15.8			
	KEV eP	08 08 04			
	e	11 20			
	eS	18 56			
	eSP	20 10			
	eSS	24 54			
	H: 07 55 07.5				
	4.4 N, 128.0 E, depth N				
	North of Halmahera				
30	NUR eP	21 10 05			
	KJN eP	21 09 52			
	OUL iP	21 09 55.4			
	SOD iP	21 09 52.3			
	H: 20 56 59.2				
	4.7 N, 127.6 E, 61 km				
	Talaud Islands				
31	NUR iP	01 53 35.0	0.8	8.6	

			T	Δ	
31	NUR ePKP	03 25 22			
	ePP	27 40			
	OUL iPKP	03 25 02.5			
	H: 03 06 31.8				
	14.8 S, 167.4 E, 140 km				
	New Hebrides Islands				
31	NUR eP	07 22 29			
	i	32.0 D	1.1	428.4	
	i	37.9			
	ePP	23 28			
	e	26 32			
	e	27 04			
	eS	44			
	KJN eP	07 22 57			
	i	59.5 D			
	iPP	24 24.3			
	iS	28 43.0			
	e	59			
	OUL iP	07 23 06.4			
	i	09.3			
	SOD iP	07 23 25.6			
	i	28.3 D			
	ePP	24 52			
	ePcS	29 17			
	eS	32			
	KEV eP	07 23 45			
	i	47.8 D	1.1	345.1	
	iPP	25 24.0			
	e	27 12			
	ePcS	29 30			
	eS	30 08			
	H: 07 15 54.4				
	27.7 N, 34.0 E, depth N				
	Red Sea				
31	OUL eP	07 56 37			
	SOD eP	07 56 56			
31	NUR eP	09 07 42			
	i	46.0			
	KJN eP	09 08 13	1.2	25.8	
	OUL iP	09 08 22.3			
	SOD eP	09 08 42			
	KEV eP	09 09 03			
	H: 09 01 12.7				
	28.4 N, 34.4 E, depth N				
	United Arab Republic				
31	NUR eP	09 10 01			
	SOD eP	09 10 57			

March				T	A	March				T	A
31	NUR	iP	09 45 45.7	0.7	9.0	KJN	iP	19 35 10.7 D	0.7	26.7	
							i	14.4			
31	NUR	eP	11 36 38				i	36 08.2			
	KJN	iP	11 37 06.5	1.0	16.4		ipP	47.3			
	OUL	iP	11 37 15.2				isP	37 16.0			
		i	21.1				iS	43 09.5			
	SOD	iP	11 37 34.3				iScS	44 20.8			
	KEV	eP	11 37 53				eP'P'	20 03 47			
	H:		11 29 59.5				e	04 10			
			27.6 N, 34.1 E, 24 km			OUL	iP	19 35 11.0			
			Red Sea				ipP	36 46.7			
							iS	43 08.2			
31	NUR	eP	12 37 06				eP'P'	20 03 50			
	KJN	iP	12 37 37.4				e	04 08			
	OUL	eP	12 37 46			SOD	iP	19 35 01.4			
	SOD	eP	12 38 10				i	05.3			
	KEV	eP	12 38 24				ipP	36 31.0			
							esP	37 12			
31	NUR	eSg	17 03 13				ePPP	38 56			
	KJN	ePn	17 00 44				eS	42 53			
		e	51				eScS	44 11			
		eSn	01 20				esS	45 24			
		i	28.6				eSS	46 54			
	OUL	iPn	17 00 51.8				eSSS	49 28			
		i	01 00.2				eP'P'	20 03 56			
		eSn	33				e	04 18			
		i	44.8			KEV	iP	19 34 52.2	0.6	17.5	
	SOD	ePb	17 01 02				i	56.3 D	1.0	1020.0	
		e	49				i	35 18.4			
		eSb	51				epP	36 18			
	KEV	eSg	17 02 36				esP	37 04			
							ePPP	38 36			
31	NUR	iP	19 35 30.7	0.5	19.8		esPP	39 14			
		i	34.7 D	1.0	980.0		iS	42 36.0			
		iPcP	57.6				e	43 20			
		ipP	36 58.5				eScS	44 00			
		i	37 10.9				esS	45 00			
		esP	40				eSS	46 32			
		i	38 41.6				eP'P'	20 04 01			
		esPP	40 04				e	17			
		epPPP	44				H:	19 25 27.2			
		e	41 40					38.3 N, 134.6 E, 417 km (D)			
		iS	43 47.5					Sea of Japan			
		iScS	44 44.1								
		esS	46 16								
		e	47 32								
		eSS	48 00								
		eSSS	51 40			31	OUL	eP	20 32 28		
		eP'P'	20 03 54				H:	20 20 25.0			
		e	04 02					23.2 N, 142.7 E, depth N			
			cont.					Volcano Islands			

March

				T	A
31	NUR	iP	20 37 08.0	1.0	14.0
	KJN	iP	20 36 49.5	0.7	9.6
	OUL	iP	20 36 49.8		
	SOD	iP	20 36 40.7		
	KEV	iP	20 36 32.5		
	H: 20 25 38.1				
	31.0 N, 140.6 E, 100 km (G)				
	South of Honshu, Japan				
31	KJN	eP	21 08 46		
	OUL	eP	21 08 56		
	SOD	eP	21 09 15		
31	NUR	iP	21 51 10.0	0.8	9.9
	KJN	iP	21 51 37.4 U	0.8	13.1
		i	43.0		
		e	52 45		
	OUL	iP	21 51 46.5		
		iPcP	54 02.6		
	SOD	iP	21 52 05.8		
	KEV	eP	21 52 24		
	H: 21 44 27.3				
	27.5 N, 34.0 E, 6 km				
	Red Sea				

March

				T	A
31	NUR	iP	22 47 26.0		
	KJN	iP	22 47 53.2 U	0.8	10.0
		i	58.8		
	OUL	iP	22 48 02.8		
	SOD	iP	22 48 21.6		
	KEV	eP	22 48 41		
	H: 22 40 47.0				
	27.4 N, 34.1 E, depth N				
	Red Sea				
31	NUR	eP	23 10 50		
	KJN	eP	23 10 20		
	OUL	eP	23 10 15		
	H: 23 00 08.0				
	51.9 N, 178.0 W, 84 km				
	Andreanof Islands				

March 13, 1969

Urmas Luosto
Aili Huovila

*none of the indicated
(1 was in APRIL)*

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April					April				
			T	A			T	A	
1	NUR	ePKP	00 20 56		1	NUR	iP	20 42 12.0	0.7 15.5
		eSKP	23 45				ipP	24.8	
	KJN	ePKP	00 20 49			KJN	iP	20 42 09.3 U	0.6 19.2
		eSKP	23 34				ipP	22.0	
	H: 00 02 26.5					OUL	iP	20 42 15.2	
	25.2 S, 179.7 E, 550 km						ipP	28.2	
	Fiji Islands					SOD	iP	20 42 16.7	
1	NUR	iP	04 15 11.0			KEV	iP	20 42 20.0	1.0 32.0
		i	13.4			H: 20 29 42.0			
		e	16 19			1.7 S, 100.0 E, depth N			
		eS	18 48			Southern Sumatra			
		e	19 04		1	NUR	eP	20 58 54	
	KJN	iP	04 15 02.3	0.8 32.3			i	59 00.3	
		eS	18 39			KJN	iP	20 58 33.0	0.6 11.6
		e	19 09			OUL	iP	20 58 28.5	
	OUL	iP	04 14 49.4				iPcP	59 33.5	
	SOD	eP	04 14 37			SOD	eP	20 58 12	
		i	45.4			KEV	eP	20 57 57	
	KEV	iP	04 14 41.0	0.8 17.3		H: 20 48 55.8			
		e	15 52			56.6 N, 163.8 E, 30 km			
	H: 04 10 45.8					Kamchatka			
	66.4 N, 17.7 W, depth N				1	NUR	e	21 32 59	
	Iceland					OUL	iP	21 32 38.7	
1	KJN	eP	05 13 22				i	52.7	
	SOD	eP	05 13 11			H: 21 19 53.6			
	H: 05 02 35.2					12.7 N, 88.2 W, 71 km			
	37.3 N, 141.4 E, depth N					Central America			
	Honshu, Japan				1	NUR	iP	21 43 38.3 U	0.6 16.3
1	NUR	iP	05 56 05.0			KJN	iP	21 43 13.7	
	KJN	iP	05 56 05.6	0.7 6.2		OUL	iP	21 43 07.1	
		e	57 13			SOD	iP	21 42 51.3 U	
	OUL	iP	05 56 15.1			KEV	iP	21 42 34.3	0.7 15.5
	SOD	iP	05 56 21.7			H: 21 33 10.0			
	KEV	iP	05 56 30.9			55.8 N, 161.3 W, 58 km			
	H: 05 49 07.5					Alaska Peninsula			
	36.3 N, 70.8 E, 212 km				2	NUR	ePKP	00 42 30	
	Hindu Kush						iSKP	45 03.0	
1	KJN	eP	07 37 40			KJN	ePKP	00 42 22	
	OUL	eP	07 38 05				iSKP	44 50.6	
1	NUR	iP	16 44 11.3 D	1.0 18.0		OUL	ePKP	00 42 20	
	OUL	iP	16 44 26.0				eSKP	44 47	
	SOD	eP	16 44 35			SOD	eSKP	00 44 43	
		i	40.2			H: 00 24 14.8			
	H: 16 36 23.4					20.7 S, 178.7 W, 600 km (G)			
	30.0 N, 67.4 E, 20 km					Fiji Islands			
	West Pakistan				2	NUR	iP	01 42 38.0 D	0.9 117.6
							i	53.0	
						cont.			

April

April

			T	A
	iS	46 22.5		
	i	44.0		
KJN	iP	01 43 12.5 D		
	i	32.4		
	i	48 40.0		
	i	49 02.8		
OUL	iP	01 43 18.6		
	i	45.7		
	i	56.9		
	iPcP	46 34.0		
	iS	47 34.4		
SOD	iP	01 43 39.2 U		
	epP	44 25		
KEV	iP	01 43 59.0	0.7	15.5
	i	44 10.0		
H: 01 38 01.9				
39.0 N, 15.3 E, 258 km				
Southern Italy				
2	NUR	iP 05 02 29.1		
	eS	06 36		
KJN	iP	05 03 05.2	0.9	11.6
	i	20.7		
OUL	iP	05 03 13.0		
	i	22.6		
SOD	eP	05 03 34		
H: 04 57 29.5				
38.0 N, 20.2 E, depth N				
Greece				
2	NUR	iP 07 37 17.0	0.7	16.8
KJN	iP	07 37 12.5 U	0.8	33.1
OUL	iP	07 37 17.3		
H: 07 24 06.4				
8.0 S, 110.4 E, 105 km				
Java				
2	NUR	eP 12 48 00		
KJN	eP	12 47 59		
OUL	iP	12 48 04.9		
SOD	iP	12 48 07.2		
H: 12 36 38.2				
8.7 N, 93.9 E, depth N				
Nicobar Islands				
2	NUR	eP 19 42 44		
	i	52.9	1.0	17.6
KJN	iP	19 42 34.3	0.7	10.3
OUL	eP	19 42 42		
SOD	eP	19 42 33		
H: 19 30 27.3				
13.3 N, 121.2 E, 13 km				
Mindoro, P.I.				

			T	A
2	KJN	iP 20 32 30.1		
	OUL	iP 20 32 39.4		
2	NUR	iPKP 20 43 08.2	0.9	13.1
	KJN	ePKP 20 43 01		
	OUL	iPKP 20 43 00.4		
H: 20 24 45.2				
15.8 S, 176.6 W, 462 km				
Fiji Islands				
2	NUR	iP 21 49 36.0		
	KJN	iP 21 49 26.0		
H: 21 36 41.4				
5.9 N, 125.9 E, 70 km				
Mindanao, P.I.				
3	NUR	iP 00 10 22.9		
	iPP	11 51.0		
	KJN	iP 00 10 21.4		
	OUL	iP 00 10 31.2		
	SOD	iP 00 10 36.7		
H: 00 03 20.9				
37.1 N, 71.8 E, 155 km				
Afghanistan-USSR border				
3	NUR	eP 00 39 51		
	KJN	eP 00 39 32		
	OUL	iP 00 39 33.0		
H: 00 28 40.9				
33.8 N, 139.7 E, 137 km				
Honshu, Japan				
3	NUR	eP 03 00 08		
	i	14.9		
	KJN	eP 03 00 01		
	i	05.2	0.8	9.2
	OUL	iP 03 00 13.4		
H: 02 52 50.9				
41.2 N, 79.2 E, 40 km				
Kirgiz-Sinkiang border				
3	KJN	eP 04 02 12		
	OUL	iP 04 02 20.7		
3	NUR	eP 04 05 53		
	e	06 08		
	KJN	iP 04 06 29.0		
	OUL	iP 04 06 38.7		
	i	45.2		

April

T A

3 OUL iP 05 11 30.6

3 NUR iPKP 09 50 22.7 D 0.9 39.4
KJN iPKP 09 50 10.1
OUL iPKP 09 50 10.0
i 16.7
H: 09 31 20.7
30.9 S, 179.8 W, 317 km
Kermadec Islands

3 NUR eP 16 56 35
KJN iP 16 56 28.4 0.8 9.2
OUL eP 16 56 17
SOD eP 16 56 10
H: 16 52 08.1
66.3 N, 17.6 W, 27 km
Iceland

3 NUR eP 19 33 52
KJN iP 19 33 40.5
OUL eP 19 33 46
SOD iP 19 33 40.5
KEV eP 19 33 37
H: 19 20 46.7
3.8 N, 128.1 E, 80 km
North of Halmahera

3 NUR eP 20 12 53
KJN iP 20 13 21.0 0.8 6.2
OUL iP 20 13 30.0
H: 20 06 13.5
27.4 N, 34.0 E, depth N
Red Sea

3 NUR iP 22 16 54.4 U 0.9 43.7
i 59.1
e 17 20
eS 20 40
eSS 21 00
eLR 22 22.4
KJN iP 22 17 34.7 U 0.8 36.1
i 36.5
i 18 15.7
e 21 33
eS 49
e 22 06
OUL iP 22 17 41.7 U
i 57.7
SOD iP 22 18 03.1
i 13.2
i 51.2
eS 22 44
cont.

April

T A

KEV eP 22 18 25
i 34.0
ePP 19 12
eS 23 32
e 52
eLR 22 26.8
H: 22 12 23.8
40.7 N, 19.9 E, depth N
Albania

3 NUR eP 23 49 43
KJN eP 23 50 22
OUL eP 23 50 30
H: 23 45 09.9
40.6 N, 19.9 E, depth N
Albania

3 NUR eP 23 53 46
i 49.4
KJN iP 23 53 35.8 1.2 27.5
i 53.1
OUL iP 23 53 38.3
SOD eP 23 53 34
H: 23 40 55.3
8.6 N, 127.2 E, depth N
Philippine Islands

4 NUR iP 00 02 11.5 U 1.0 12.0
KJN iP 00 02 01.0 0.8 12.3
OUL eP 00 02 04
SOD e 00 02 08
H: 23 49 19.5
8.6 N, 127.3 E, depth N
Philippine Islands

4 NUR eP 04 25 22
KJN eP 04 26 03
OUL iP 04 26 09.6
H: 04 20 46.8
40.6 N, 19.8 E, depth N
Albania

4 KJN eP 06 50 05
OUL iP 06 50 10.5

4 NUR iP 08 56 02.2 D 0.8 112.3
i 14.9
eS 09 04 50
eSS 09 20
OUL iP 08 55 32.5
i 45.4
eP'P' 09 24 48
SOD iP 08 55 13.3
i 18.0
i 29.4
cont.



April

April

				T	A	
	KEV	iP	08 55 03.0 D	1.0	34.0	
		i	11.8			
		eS	09 03 00			
	H: 08 45 18.7					
	51.2 N, 173.7 E, depth N					
	Near Islands					
4	NUR	eP	12 25 25			
		i	30.4			
	KJN	eP	12 25 51			
		i	58.0			
	OUL	iP	12 26 01.3			
		i	07.9			
	SOD	iP	12 26 20.4			
		i	26.9			
	H: 12 18 47.2					
	27.7 N, 34.1 E, depth N					
	Red Sea					
4	NUR	eP	12 45 48			
	KJN	eP	12 45 47			
	OUL	iP	12 45 50.8			
		i	46 06.0			
4	NUR	eP	14 07 30			
		i	39.7	1.2	28.5	
	KJN	iP	14 07 15.7			
		i	25.0			
	OUL	iP	14 07 19.6			
		i	28.1			
	SOD	iP	14 07 14.2			
		i	23.8			
	H: 13 56 03.2					
	22.9 N, 120.0 E, 46 km					
	Taiwan					
4	NUR	iP	16 29 04.0	1.0	16.0	
		eSKS	39 36			
		e	40 00			
		ePS	52			
		eSS	45 52			
	KJN	iP	16 28 55.3			
	OUL	iP	16 28 48.2			
	SOD	eP	16 28 41			
	KEV	eP	16 28 31	0.8	21.6	
		eSKS	38 52			
	H: 16 16 17.2					
	24.4 N, 109.8 W, 31 km					
	Gulf of California					
4	NUR	eP	22 11 09			
4	NUR	iP	23 07 35.9 U	0.8	90.2	
		ipP	44.0			
	cont.					

				T	A	
		ePcP	08 16			
	KJN	iP	23 07 08.9 U	1.1	85.1	
		ipP	17.3			
	OUL	iP	23 07 04.4			
		ipP	12.4			
		i	40.7			
		ePcP	57			
	SOD	iP	23 06 49.2 U			
		ePcP	07 49			
	H: 22 57 16.8					
	54.5 N, 169.4 E, 27 km (D)					
	Komandorsky Islands					
5	NUR	iP	02 27 24.0			
		i	27.0			
		i	39.0			
		ePP	29 28			
		eS	34 36			
	KJN	iP	02 27 45.2			
		i	49.0			
	OUL	iP	02 27 52.9			
		i	56.7			
	SOD	eP	02 28 09			
		e	12			
	KEV	eP	02 28 26			
		ePPP	32 00			
		eS	36 32			
		e	40 32			
	H: 02 18 29.9					
	12.2 N, 41.2 E, 17 km					
	Ethiopia					
5	NUR	eP	03 57 29			
	KJN	iP	03 57 20.0	0.7	20.6	
	OUL	iP	03 57 22.8			
	SOD	iP	03 57 19.9			
	H: 03 44 36.7					
	3.4 N, 125.4 E, 150 km					
	Talaud Islands					
5	NUR	eP	04 17 22			
	KJN	eP	04 17 14			
	OUL	iP	04 17 13.9			
	SOD	iP	04 17 10.2			
	H: 04 04 10.8					
	3.4 N, 128.2 E, 55 km					
	North of Halmahera					
5	NUR	iP	04 18 53.9			
	KJN	eP	04 18 40			
	OUL	iP	04 18 45.8			
5	NUR	iPKP ²	07 13 28.4	1.1	23.3	
		i	14 18.2			
	cont.					

April				April			
		T	A			T	A
	SOD eP	23 58 13		13	NUR iP	05 50 20.0	0.5 11.9
	H:	23 45 04.4			KJN eP	05 50 24	
		1.3 N, 126.4 E, 53 km			OUL iP	05 50 59.4	
		Molucca Passage			H:	05 45 43.2	
12	NUR eP	10 03 39				38.8 N, 14.8 E, 274 km	
	KJN iP	10 03 14.5				Sicily	
	SOD eP	10 03 08		13	NUR iP	05 54 10.0	
12	NUR iP	10 58 01.4	0.5 16.2		KJN iP	05 53 57.6	0.7 19.2
	KJN iP	10 57 50.7			OUL iP	05 54 00.1	
	OUL iP	10 57 52.8			SOD iP	05 53 56.2	
	SOD iP	10 57 49.7			KEV iP	05 53 52.6	0.7 10.3
	KEV eP	10 57 50			H:	05 42 22.1	
	H:	10 45 16.9				19.3 N, 120.8 E, 35 km	
		10.2 N, 126.3 E, 11 km				Philippine Islands	
		Philippine Islands		13	NUR ePKP	07 32 35	
12	NUR iP	20 42 12.0	0.6 75.0		eSKP	35 15	
	i	22.3			H:	07 14 26.4	
	i	35.1				17.3 S, 179.3 W, 616 km	
	eS	44 52				Fiji Islands	
	KJN iP	20 42 57.9	0.8 13.8	13	NUR ePKP	07 52 09	
	i	43 02.2			eSKP	54 52	
	iS	46 25.1			H:	07 33 49.4	
	OUL iP	20 43 09.4				20.9 S, 178.8 W, 579 km	
	eS	46 48				Fiji Islands	
	SOD iP	20 43 37.3		13	KJN iP	10 38 05.7	0.6 6.9
	i	42.0			OUL iP	10 38 04.9	
	iS	47 33.1		13	NUR eP	13 23 56	
	KEV iP	20 44 01.8	1.3 146.6		e	24 06	
	i	08.7			KJN eP	13 23 39	
	eS	48 20			OUL eP	13 23 40	
	H:	20 38 39.6			SOD iP	13 23 34.9	
		45.3 N, 25.0 E, 8 km			H:	13 12 37.1	
		Rumania				29.3 N, 129.5 E, 41 km	
						Ryukyu Islands	
12	NUR iP	22 25 12.4		13	NUR iP	15 34 47.3	0.6 18.8
	KJN iP	22 25 13.0			i	51.3	
	OUL eP	22 25 23			i	35 07.3	
	H:	22 18 09.7			iPP	36 55.7	
		36.2 N, 69.7 E, 119 km			eS	42 48	
		Hindu Kush			eScS	44 36	
12	NUR eP	23 12 36			eSS	46 40	
	i	41.0			KJN iP	15 34 48.0	0.7 10.3
	KJN iP	23 12 56.4			i	52.9	
	i	13 09.2			OUL iP	15 34 56.8	
	H:	23 07 31.9			i	35 00.4	
		40.5 N, 43.0 E, depth N			SOD iP	15 35 01.3	
		Turkey-USSR border			i	05.5	
13	NUR eP	01 38 14	0.8 10.1			cont.	

April				T	A	April				T	A	
	KEV	iP	15 35 08.8	0.7	16.8		SOD	iP	23 46 45.7			
		i	12.9					ipP	47 29.0			
		ePPP	39 05					ePP	50 54			
		eS	43 29					epPP	51 36			
		eSS	47 32					eS	58 20			
	H: 15 24 55.6							ePPS	24 00 54			
	17.9 N, 80.6 E, depth N							ePKKP	03 01			
	India						KEV	iP	23 46 43.2			
13	NUR	eP	16 21 50					i	45.4			
	KJN	iP	16 22 17.8	0.8	13.1			ePP	50 55			
	OUL	iP	16 22 27.2					epPP	51 30			
	SOD	iP	16 22 46.4					eS	58 18			
	KEV	eP	16 23 05					e	59 04			
	H: 16 15 11.3							ePPS	24 00 48			
	27.6 N, 33.8 E, 16 km							e	01 28			
	United Arab Republic							esSS	06 02			
	H: 23 33 15.4							6.1 S, 129.9 E, 152 km				
	27.6 N, 33.8 E, 16 km							Banda Sea				
	United Arab Republic											
13	KJN	iP	17 37 19.0 D	1.0	22.9		14	KJN	ePKP	00 03 52		
	OUL	eP	17 37 26						eSKP	06 24		
	H: 17 24 17.3							OUL	ePKP	00 03 44		
	7.8 S, 111.4 E, 169 km								iSKP	06 22.4		
	Java											
13	NUR	iP	19 42 37.7				14	NUR	iP	05 16 32.7		
		i	44 27.0						i	36.4		
13	NUR	iP	23 46 55.6	0.8	15.8				iPP	52.2		
		i	50 04.0					KJN	iP	05 17 10.0		
		i	31.9						i	12.0		
		ePP	51 10					OUL	iP	05 17 18.1		
		e	55					SOD	iP	05 17 39.0		
		epPP	52 04					KEV	iP	05 18 00.6		
		e	56 08					H: 05 11 45.8				
		eS	58 24					39.1 N, 21.8 E, depth N				
		esS	59 36					Greece				
		ePS	24 00 24				14	NUR	iP	07 12 49.3	0.6	8.8
		ePPS	01 04						ipP	13 11.0		
		e	02 06					KJN	iP	07 12 46.0		
		iPKKP	54.8						i	49.6		
		e	05 08						ipP	13 07.5		
		eSS	44						i	11.9		
		esSS	06 32					OUL	iP	07 12 51.2		
KJN	iP	23 46 46.2	1.0	86.1					ipP	13 12.2		
	ipP	47 33.0						SOD	iP	07 12 52.4		
	esP	48 00							i	55.7		
	iPP	50 53.2						H: 07 00 01.7				
	epPP	51 38						5.2 S, 104.3 E, 102 km				
	iPKKP	24 03 00.5						Southern Sumatra				
OUL	iP	23 46 48.8					14	NUR	iP	13 20 41.7	0.5	17.2
	i	50.8							i	46.0		
	ePP	51 01						cont.				
	ePKKP	24 02 58						cont.				

April

April

				T	A					T	A
		esSS	47 40					eSS	56 00		
		e	52 08					eSSS	02 00 00		
KJN	iP	22 27	23.8	D	1.0	87.2		eLQ	02 06.2		
	i		30.0					H:	01 22 47.5		
	ipP	29	31.0						3.5 S, 151.0 E, 39 km		
	iSKS	37	00.3						New Ireland		
	iS		43.6								
OUL	iP	22 27	27.7				16	NUR	iP	04 59	35.9 D 1.0 22.0
	i		37.1						i		52.2
	ipP	29	36.6						i	05 00	08.3
	i	31	38.0						eS		03 56
	ePKKP	44	26					KJN	eP	05 00	06
SOD	eP	22 27	27						i		11.6
KEV	iP	22 27	27.6		1.0	52.0			i	01	18.1
	i		37.0						eS		04 48
	ipP	29	24.2					OUL	iP	05 00	15.2
	eSKS	37	06						iPcP		03 19.0
	eS		44					SOD	eP	05 00	35
	eSP	39	10						iPcP		03 24.8
	esPS	42	48					KEV	eS	05 06	24
	esSS	47	52						H:	04 54 06.3	
	e	51	28							35.2 N, 27.9 E, 8 km	
										Dodecanese Islands	
		H:	22 15 09.6					16	NUR	eP	05 39 27
			5.9 S, 113.2 E, 575 km						KJN	eP	05 39 09
			Java Sea						OUL	iP	05 39 10.3
16	NUR	iPKP	01 41 24.0								
		ePP	52								
		ePPP	44 02					16	NUR	eP	08 19 35
		e	34						KJN	iP	08 20 04.8
		eSKS	47 56						OUL	eP	08 20 15
		eSKKS	48 54						H:	08 12 54.6	
		ePS	50 56							27.6 N, 34.0 E, depth N	
		e	53 00							Red Sea	
		eSS	57 20					16	NUR	iPKP	12 38 24.5 U 0.9 112.6
		eSSS	02 00 56							ePP	40 04
		eLQ	02 08.1							eSKSP	49 48
KJN	eP	01 37	07		1.2	27.5				eSPP	51 12
	ePKP	41	18							eSS	56 52
	iPP		29.7					KJN	iPKP	12 38 17.5 U 0.9 68.8	
	ePKKP	52	17					OUL	iPKP	12 38 17.1	
OUL	eP	01 37	06					SOD	iPKP	12 38 13.8	
	iPP	41	32.6					KEV	iPKP	12 38 10.0 0.9 38.6	
	ePKKP	52	32						ePS	49 16	
SOD	eP	01 37	04						H:	12 19 40.1	
	iPP	41	24.0							13.6 S, 166.9 E, 153 km	
	eSKS	47	38							New Hebrides Islands	
KEV	eP	01 36	56					16	NUR	iPKP	12 38 57.0
	ePP	41	12						KJN	ePKP	12 38 49
	eSKS	47	32						OUL	iPKP	12 38 49.2
	ePS	50	06						H:	12 20 08.8	
	e		26							13.5 S, 166.3 E, 137 km	
	e	53	00							New Hebrides Islands	

cont.

April						April					
				T	A						
				T	A						
16	KJN	iP	13 19 51.6			KJN	iP	01 00 31.8	0.7	6.2	
	OUL	iP	13 19 51.7				eS	05 19			
16	KJN	eP	22 50 42			OUL	iP	01 00 41.1			
	OUL	iP	22 50 40.8				iS	05 35.9			
	H: 22 40 22.1					SOD	iP	01 01 01.3			
	44.4 N, 149.4 E, depth N					KEV	eS	01 06 44			
	Kurile Islands					H: 00 54 35.7					
16	NUR	iP	23 01 03.5	1.0	56.0	35.1 N, 27.7 E, 54 km					
		eS	05 24			Dodecanese Islands					
		e	36			17	NUR	eP	01 13 50		
	KJN	iP	23 01 34.0	1.0	13.1	17	NUR	eP	02 42 55		
		i	40.4				KJN	iP	02 42 36.5		
		eS	06 18				OUL	iP	02 42 37.6		
	OUL	iP	23 01 42.5			17	NUR	eP	03 29 21		
		iPcP	04 46.7				OUL	iP	03 29 30.2		
	SOD	iP	23 02 02.6				SOD	eP	03 29 37		
	KEV	iP	23 02 27.0			H: 03 21 16.4					
		ePP	03 38			30.1 N, 69.9 E, 7 km					
		eS	07 58			West Pakistan					
	H: 22 55 37.2					17	NUR	iP	05 07 15.8	0.7	21.9
	35.3 N, 27.9 E, 25 km						i	16.7			
	Dodecanese Islands						i	20.7			
16	NUR	iP	23 26 27.3	1.0	44.0		eS	16 14			
		ipP	38.4			KJN	iP	05 06 54.0	1.0	77.4	
		i	50.1				i	55.1			
		eS	30 50				i	59.5			
		e	31 04			OUL	iP	05 06 53.4			
		e	20				i	58.9			
		iScP	33 40.0			SOD	iP	05 06 42.3			
		e	34 27				i	43.3			
	KJN	iP	23 27 00.5				i	47.8			
		i	07.8			KEV	eP	05 06 33			
		iS	31 48.6				eS	14 52			
	OUL	iP	23 27 07.5				e	16 08			
		i	08.9				eSS	18 48			
		iPcP	30 12.2			H: 04 56 15.9					
	SOD	iP	23 27 28.4			39.5 N, 143.4 E, 33 km					
		iPP	28 43.0			Honshu, Japan					
	KEV	iP	23 27 54.0	1.0	36.0	17	NUR	eP	05 41 52		
		i	28 11.0				KJN	iP	05 41 36.5		
	H: 23 21 04.9						OUL	iP	05 41 40.2		
	35.4 N, 27.8 E, 45 km					17	NUR	eP	08 07 42		
	Dodecanese Islands						e	47			
17	NUR	iP	00 13 39.6			KJN	iP	08 08 09.6	1.0	20.7	
	OUL	iP	00 13 08.7				i	14.2			
17	NUR	eP	00 28 34			OUL	iP	08 08 19.0			
17	NUR	iP	01 00 00.2	0.7	10.3		i	24.0			
		eS	04 24			cont.					
		e	36								

April						April					
				T	A						
				T	A						
19	NUR	iP	00 59 22.9			SOD	iP	08 58 16.4			
	KJN	iP	00 59 07.9				i	31.2			
		i	14.0			KEV	eP	08 58 21			
	OUL	eP	00 59 11				i	33.0			
	SOD	eP	00 59 05				eSKS	09 08 40			
							eS	09 04			
19	NUR	iP	01 34 24.0	0.9	15.1	H:	08 45 16.0				
	KJN	iP	01 34 03.0	1.0	16.4		6.2 S, 103.9 E, 40 km				
		i	28.9				Southwest of Sumatra				
	OUL	iP	01 34 02.4								
		i	15.8								
	SOD	eP	01 33 51			19	NUR	iP	15 28 56.3	0.7	11.6
		i	34 05.0				isP	29 16.4			
	H:	01 23 20.2					KJN	iP	15 28 34.4 U	0.7	21.9
		37.9 N, 141.9 E, 45 km (G)					isP	55.0			
		Honshu, Japan					OUL	iP	15 28 33.6 U		
							isP	53.3			
19	NUR	iSKP	06 28 49.2				SOD	iP	15 28 22.6 U		
	KJN	ePKP	06 26 05				epP	36			
		iSKP	28 36.5				esP	42			
	OUL	eSKP	06 28 34				KEV	iP	15 28 11.9	0.6	12.5
	H:	06 08 02.6					H:	15 18 09.6			
		17.7 S, 178.7 W, 605 km (G)						40.7 N, 142.1 E, 65 km			
		Fiji Islands						Honshu, Japan			
19	NUR	eP	07 31 33			19	NUR	iP	19 36 18.2	1.0	30.0
	KJN	eP	07 31 12				i	23.2			
	SOD	eP	07 31 02				i	37 39.8			
	H:	07 20 20.8					eS	44 24			
		35.5 N, 140.1 E, 40 km (G)					KJN	iP	19 35 54.0 U	1.0	45.8
		Honshu, Japan					i	59.0			
							OUL	iP	19 35 45.7		
19	NUR	eP	08 26 09				SOD	iP	19 35 29.6 U		
		i	14.3				i	34.0			
	KJN	iP	08 26 17.3	0.8	6.9		KEV	iP	19 35 11.7 U	0.8	40.3
		i	20.2				eS	42 20			
	SOD	eP	08 26 14				H:	19 26 17.3			
	KEV	eP	08 26 17	0.8	11.5			60.3 N, 146.0 W, 21 km			
	H:	08 16 06.5						Southern Alaska			
		25.2 N, 46.7 W, depth N									
		North Atlantic Ridge									
19	NUR	iP	08 58 13.3	1.5	84.1	19	NUR	eP	19 48 48		
		i	27.0				KJN	eP	19 49 06		
		i	09 00 26.0				OUL	iP	19 49 16.6		
		ePP	01 45				i	22.7			
		eSKS	08 40				SOD	eP	19 49 33		
		eS	09 00								
		e	32								
		eSS	15 00								
	KJN	iP	08 58 10.8 U	1.5	163.2	19	NUR	eP	22 19 07		
		i	25.0				i	11.0			
		e	59 15				KJN	iP	22 18 52.4		
		iS	09 09 07.8				i	58.3			
		e	22				OUL	iP	22 18 54.9		
			cont.				i	19 01.1			
							SOD	iP	22 18 48.9		
							i	55.0			
								cont.			

April

April

April				T	A	April				T	A	
KEV	eP	22 18 44				KEV	eP	02 31 40				
	i	50.6					ePP	35 00				
H:		22 07 46.8					eSKS	42 00				
		25.5 N, 123.2 E, 61 km					eS	14				
		Northeast of Taiwan					e	40				
19	NUR	eP	22 31 42				eSS	47 44				
							eSSS	50 52				
20	NUR	iP	01 25 46.3	0.7	9.0	H:		02 19 07.1				
	OUL	eP	01 25 34					14.1 N, 91.0 W, 82 km				
								Guatemala				
20	NUR	eP	16 09 51			21	NUR	iP	07 30 37.0 U	1.4	164.0	
	SOD	iP	16 10 12.3				i	38.2				
							i	45.8				
20	NUR	eP	16 18 44				i	31 13.8				
	e	50					ePP	33 16				
	KJN	eP	16 19 02				ePPP	35 01				
	e	21					eS	39 48				
	OUL	eP	16 19 05				e	40 00				
	e	19					eScS	28				
	H:		16 12 01.5				e	42 24				
			36.0 N, 10.4 W, 29 km				eSS	44 36				
			North Atlantic Ocean				eSSS	47 48				
20	NUR	ePKP	20 43 58				LZ			18	69.8u	
	iSKP	46 50.0					LN			18	30.4u	
	KJN	iPKP	20 43 54.9				LE			20	32.8u	
	iSKP	46 39.5				KJN	iP	07 30 18.4 U	1.8	389.2		
	OUL	iPKP	20 43 53.4				i	28.0				
	eSKP	46 38					i	50.5				
	H:		20 25 18.2				iPP	32 50.0				
			24.5 S, 179.9 W, 374 km				eScP	34 43				
			Fiji Islands				eP'P'	58 47				
21	NUR	iP	02 31 58.5			OUL	iP	07 30 19.3				
	epP	32 16					ePP	32 44				
	ePP	35 28				SOD	iP	07 30 12.7				
	epPP	48					e	52				
	eSKS	42 22					iPP	32 37.1				
	esS	43 14					ePPP	34 22				
	ePS	44 00					eS	38 58				
	eSS	48 35					eSS	43 22				
	e	48					eSSS	46 14				
	e	49 52					eSSS	46 14				
	e	56 04					eP'P'	58 44				
	KJN	iP	02 31 54.7	1.0	13.1	KEV	iP	07 30 05.3	1.1	145.2		
	iPP	35 24.8					ePP	32 29				
	OUL	iP	02 31 49.2				ePPP	34 06				
	iPP	35 17.0					eS	38 47				
	SOD	iP	02 31 44.5				eSS	43 06				
	esP	32 14					eSSS	45 58				
	ePP	35 09					eLR	07 49.5				
	eS	42 10				H:		07 19 27.5				
	ePS	43 26						32.2 N, 131.9 E, 41 km (D)				
	eSS	48 00						Kyushu, Japan				
						21	KJN	eP	16 20 01			
							OUL	iP	16 20 05.7			
												cont.

cont.

April				April			
		T	A		T	A	
	SOD eP	16 19 57		21 NUR	iP	22 31 20.0	0.9 10.1
	H:	16 07 00.2			i	26.2	1.2 51.3
		2.4 N, 127.0 E, 97 km			i	35.5	1.1 142.8
		Molucca Passage			i	42.2	
21	NUR eP	16 47 41			eS	34 24	
	OUL eP	16 47 28			e	32	
21	NUR iP	17 23 49.0	0.8 14.4	KJN iP	22 30 48.2	1.0 337.9	
	KJN eP	17 23 47			i	55.0	
	OUL iP	17 23 36.5			eS	32 56	
	SOD eP	17 23 34			i	33 43.5	
	KEV iP	17 23 31.0 U	1.0 24.0		eT	38 02	
	e	27 52		OUL iP	22 30 31.1		
	H:	17 18 34.2			iS	32 23.3	
		61.9 N, 26.7 W, depth N			eT	37 32	
		Iceland		SOD iP	22 30 05.3		
21	NUR iP	18 11 14.2	0.8 8.6		i	09.2	
	KJN iP	18 11 23.1	0.7 13.7		i	38.6	
	SOD iP	18 11 38.1			iS	31 45.0	
	H:	17 58 56.9			i	32 05.6	
		14.4 S, 66.5 E, depth N			eT	37 16	
		Mid-Indian Rise		KEV iP	22 29 39.8	1.0 114.0	
21	NUR eP	18 37 50			i	43.3	
	i	58.0			iS	30 09.8	
	OUL eP	18 37 45				58.4	
	KEV eP	18 37 42			H:	22 27 59.5	
21	NUR iP	20 41 26.3				74.2 N, 9.7 E, depth N	
	i	29.9				Greenland Sea	
	i	42 20.3		22	NUR iSg	00 19 07.0	
	eS	45 18			KJN ePg	00 18 23	
	KJN iP	20 42 03.2 D	1.1 48.6		eSb	56	
	i	06.3			eSg	19 01	
	OUL eP	20 42 11			OUL eSn	00 18 44	
	i	24.2			eSb	50	
	SOD eP	20 42 32			iSg	53.2	
	i	54.2			SOD eSg	00 19 53	
	KEV eP	20 42 56			Helsinki:		
	eS	48 00			H:	00 17 27	
	H:	20 36 43.3				63.2 N, 21.4 E	
		39.5 N, 25.2 E, depth N				Finland	
		Aegean Sea		22	OUL eP	00 42 07	
21	NUR eP	21 02 59			SOD eP	00 42 02	
	i	03 07.9	1.0 18.0		H:	00 29 25.0	
	KJN eP	21 03 30				14.1 N, 91.0 W, 89 km	
	i	41.3				Guatemala	
	OUL eP	21 03 40		22	NUR eP	01 27 05	
	H:	20 57 39.6			KJN eP	01 26 18	
		36.4 N, 28.6 E, 36 km			i	21.0	
		Dodecanese Islands			eS	28 24	
						cont.	

April

April

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T A

OUL eP 01 26 10
 eS 27 56
 e 28 27
 SOD eP 01 25 38
 eS 26 59
 KEV eP 01 25 14
 iS 26 23.0

22 NUR ePP 05 00 06
 ePPS 12 18
 eSS 18 08
 KEV eSKP 05 00 44
 ePPS 11 30
 e 12 40
 eSS 16 30
 eSSS 22 10

H: 04 38 03.0
 26.7 S, 114.2 W, depth N
 Easter Island

22 KJN iP 06 02 50.0
 OUL iP 06 02 53.0
 SOD eP 06 02 47
 KEV eP 06 02 43
 H: 05 51 36.9
 24.3 N, 122.5 E, 30 km
 Taiwan

22 NUR ePKP 06 51 12
 i 22.2
 ePP 54 00
 ePKS 53
 e 07 01 00
 ePPS 06 12
 eSS 11 36
 KJN ePKP 06 51 15
 i 20.3
 ePP 53 49
 iPKS 54 50.7
 OUL ePKP 06 51 10
 e 17
 ePP 53 47
 SOD ePKP 06 51 10
 ePP 53 35
 ePKS 54 44
 KEV ePKP 06 51 12
 ePP 53 28
 iPKS 54 38.5
 eSKKS 07 00 24
 eSKSP 03 16
 ePPS 05 17
 e 06 24
 eSS 11 00

cont.

eSSS 16 00
 e 52
 e 19 40
 H: 06 31 57.5
 26.8 S, 114.1 W, depth N
 Easter Island

22 NUR iP KP 07 56 47.9 0.7 7.7
 KJN iP KP 07 56 39.0 0.9 8.0
 OUL iP KP 07 56 38.4
 SOD ePKP 07 56 34
 KEV ePKP 07 56 27
 H: 07 37 51.2
 15.4 S, 174.1 W, 164 km
 Tonga Islands

22 NUR iP 08 22 19.0 U 0.8 57.6
 e 24 54
 KJN iP 08 21 57.1 U 0.8 84.6
 i 22 05.2
 e 24 40
 eS 30 34
 OUL iP 08 21 56.2 U
 i 22 03.9
 SOD iP 08 21 45.3 U
 i 22 02.6
 e 24 30
 KEV iP 08 21 35.0 U 0.8 41.8
 i 43.6
 H: 08 11 21.6
 39.8 N, 143.0 E, 36 km
 Honshu, Japan

22 NUR eP 09 16 58
 KJN eP 09 16 52
 OUL eP 09 16 59
 SOD eP 09 17 01
 KEV eP 09 17 03
 H: 09 06 58.5
 23.2 N, 92.7 E, 39 km
 India-East Pakistan border

22 NUR eP 10 20 56
 OUL iP 10 20 25.0
 SOD eP 10 20 09
 H: 10 10 36.3
 57.0 N, 154.0 W, 67 km
 Kodiak Island

22 KJN iP 15 07 28.0
 i 48.0
 SOD eP 15 07 27

April				T	A	April				T	A	
22	NUR	eP	15 58 01			23	NUR	iP	13 43 58.8			
	KJN	eP	15 58 40				KJN	iP	13 44 26.0	0.8	20.0	
								i	32.0			
22	NUR	eP	18 10 15				OUL	iP	13 44 35.5			
	KJN	iP	18 10 05.0					i	41.4			
		i	31.6					iPcP	46 52.4			
								i	58.5			
22	NUR	eP	22 09 06				SOD	iP	13 44 54.7	U		
	KJN	iP	22 09 30.0	0.7	95.9			ePcP	47 05			
	OUL	iP	22 09 37.8				KEV	iP	13 45 14.0	U	0.8 10.1	
	SOD	iP	22 09 53.2					i	19.5			
	KEV	iP	22 10 08.0									
			H: 21 59 11.0						H: 13 37 21.0			
			1.9 N, 31.5 E, 28 km						27.6 N, 33.9 E, 28 km (D)			
			Uganda						United Arab Republic			
22	NUR	iP	22 43 57.7	D	1.1	142.8	23	NUR	iF	21 03 31.9		
		i	44 06.5					ipP	42.9			
		iPcP	45 04.1					KJN	iP	21 03 07.8	0.7	5.5
		ePP	46 04					OUL	iP	21 03 02.0		
		eS	51 30						i	04.0		
		eScS	53 40						ipP	12.2		
		e	55 44					SOD	eP	21 02 46		
	KJN	iP	22 44 10.1	D	1.2	134.2		KEV	eP	21 02 30		
		ePcP	45 12						epP	42		
	OUL	iP	22 44 18.8	D						H: 20 52 38.0		
		i	27.8							52.2 N, 167.1 W, depth N		
	SOD	iP	22 44 31.0	D						Fox Islands		
		ePcP	45 20									
	KEV	iP	22 44 44.2	D	1.1	107.4	23	NUR	eP	21 24 29		
		i	53.4					KJN	eP	21 24 57		
		iPP	47 02.4							H: 21 19 28.6		
		ePPP	48 24							38.6 N, 32.0 E, depth N		
		eS	52 56							Turkey		
		eScS	54 36									
		eSS	57 00									
		eSSS	59 28									
			H: 22 34 38.4									
			13.0 N, 58.2 E, 33 km									
			Arabian Sea									
22	NUR	eP	23 17 02				24	KJN	eP	02 24 10		
	KJN	iP	23 16 50.0					SOD	eP	02 23 58		
		i	51.5							H: 02 13 48.5		
	OUL	iP	23 16 54.3							41.3 N, 142.3 E, 58 km		
		i	17 06.6							Hokkaido, Japan		
	SOD	iP	23 16 51.0									
			H: 23 04 29.0									
			11.1 N, 124.6 E, 42 km									
			Leyte, P.I.									
23	KJN	iP	08 32 42.0	0.7	8.9			NUR	iP	02 29 18.9		
	OUL	iP	08 32 49.3						ipP	49.0		
	SOD	eP	08 32 58					KJN	iP	02 28 54.3	0.8	6.2
									ipP	29 25.0		
								OUL	iP	02 28 48.5		
									ipP	29 18.8		
								SOD	eP	02 28 34		
									ipP	29 03.4		
								KEV	iP	02 28 18.2	0.8	10.1
									ipP	47.5		
										H: 02 18 44.3		
										52.8 N, 172.5 W, 135 km		
										Andreanof Islands		

April				T	A	April				T	A
24	NUR	eP	02 54 33	0.7	5.5	24	NUR	iP	14 51 02.9	0.9	25.2
	KJN	iP	02 55 09.0				i	04.9			
	OUL	eP	02 55 17				i	28.2			
	SOD	eP	02 55 35				eS	55 16			
24	NUR	iP	03 51 50.0	0.7	4.8	KJN	eP	14 51 34			
	KJN	iP	03 51 24.0				i	40.0			
	OUL	iP	03 51 21.2				i	52 01.5			
	SOD	iP	03 51 06.3				OUL	iP	14 51 43.0		
	KEV	eP	03 50 53				i	55.2			
24	NUR	ePKP	06 43 55			SOD	eP	14 52 03			
		e	44 04			i	18.4				
		eSKP	46 48			KEV	i	14 52 38.3			
	KJN	ePKP	06 43 55			e	59 04				
		eSKP	46 35			H:	14 45 48.0				
	OUL	ePKP	06 43 55				36.4 N, 28.7 E, 48 km				
	H:	06 25 42.0					Dodecanese Islands				
		20.4 S, 178.3 W, 540 km (G)				24	NUR	eP	16 40 24		
		Fiji Islands									
24	NUR	eP	07 34 15			24	NUR	eP	22 54 34		
24	NUR	ePKP	07 45 08				KJN	iP	22 54 22.2		
		i	16.9				OUL	eP	22 54 27		
		e	48 23				SOD	eP	22 54 23		
		eSKP	30				H:	22 41 57.5			
		iPKS	50.0					10.1 N, 125.9 E, 81 km			
	KJN	iPKP	07 45 08.1	0.7	9.6			Leyte, P.I.			
		iSKP	48 17.3			25	NUR	ePKP	01 50 35		
		iPKS	37.8					iSKP	53 26.8		
	OUL	iPKP	07 45 07.6				KJN	iPKP	01 50 39.5		
	SOD	ePKP	07 44 55					iSKP	53 15.4		
		i	45 03.2					i	20.3		
		eSKP	48 09				OUL	iPKP	01 50 38.8		
	KEV	iPKP	07 45 00.3					eSKP	53 18		
	H:	07 26 20.4					SOD	ePKP	01 50 38		
		21.2 S, 177.0 W, 250 km (G)						eSKP	53 07		
		Fiji Islands					KEV	eSKP	01 53 00		
							H:	01 32 22.9			
								22.2 S, 179.5 W, 542 km			
								Fiji Islands			
24	NUR	iP	08 57 02.8 U	0.8	20.2	25	SOD	eP	03 30 43		
		epP	09								
	KJN	iP	08 56 38.0	0.8	11.5	25	NUR	iP	03 40 38.0	0.7	7.7
	OUL	iP	08 56 30.6				KJN	iP	03 40 17.5 U	0.9	10.7
	SOD	iP	08 56 14.6					ipP	33.0		
		ipP	21.7				OUL	iP	03 40 18.3		
	KEV	iP	08 55 57.4					epP	33		
	H:	08 46 35.1					SOD	eP	03 40 06		
		56.7 N, 151.9 W, 22 km					H:	03 29 28.9			
		Kodiak Island						35.9 N, 139.9 E, 60 km			
								Honshu, Japan			
24	NUR	eP	11 04 28			25	NUR	eP	03 47 24		
	KJN	eP	11 04 10					i	51 21.0		
	OUL	iP	11 04 16.3								
	SOD	eP	11 04 10								

April

April

T A

T A

KJN eSKS 57 54
 eS 58 24
 iP 03 47 24.0 0.9 9.8
 i 32.4
 ePP 50 57
 OUL eP 03 47 20
 i 27.8
 ePP 50 55
 SOD eP 03 47 16
 ePP 50 42
 KEV eP 03 47 15
 i 21.5 1.3 58.0
 ePP 50 45
 eSKS 57 40
 eS 58 00
 e 04 01 00
 eSS 04 04

H: 03 34 17.7
 7.5 N, 82.1 W, 25 km (G)
 South of Panama

25 NUR eP 05 04 50
 KJN iP 05 04 49.0 0.8 5.4
 OUL eP 05 04 55
 SOD eP 05 04 56
 KEV eP 05 05 02
 H: 04 52 58.4
 5.0 N, 97.9 E, depth N
 Northern Sumatra

25 NUR iP 07 44 28.9 1.1 23.8
 ePP 46 14
 KJN iP 07 44 31.3 U 0.5 10.3
 iPP 46 20.2
 OUL iP 07 44 41.1
 iPP 46 30.4
 SOD iP 07 44 48.6
 i 45 01.2
 iPP 46 37.4
 KEV iP 07 44 58.5
 e 45 11
 ePS 51 52
 eSS 55 12

H: 07 36 36.2
 30.8 N, 70.3 E, 23 km
 West Pakistan

25 NUR iP 09 24 03.0 U 0.8 24.5
 ipP 19.5
 KJN iP 09 23 38.7 0.8 6.9
 ipP 53.8
 OUL iP 09 23 33.1
 ipP 47.0
 cont.

SOD iP 09 23 15.6
 ipP 30.3
 KEV iP 09 22 58.0 0.8 17.3
 ipP 23 12.0
 H: 09 13 40.6
 56.6 N, 156.7 W, 64 km
 Alaska Peninsula

25 NUR ePKP 13 35 27
 iSKP 38 24.5
 KJN iPKP 13 35 27.0
 iSKP 38 14.0
 OUL iPKP 13 35 26.9
 iSKP 38 13.6
 H: 13 16 58.9
 24.9 S, 179.8 E, 459 km
 Fiji Islands

25 NUR iP 13 38 14.0
 KJN iP 13 38 04.3 0.6 11.6
 OUL iP 13 38 07.7
 SOD iP 13 38 03.9
 KEV eP 13 38 01
 H: 13 26 30.9
 7.3 N, 123.7 E, 660 km
 Mindanao, P.I.

25 NUR eSn 14 38 37
 KJN iPn 14 35 49.1
 eSn 37 16
 e 58
 OUL ePn 14 35 32
 iSn 36 48.2
 SOD ePn 14 35 05
 e 15
 eSn 36 00
 KEV ePn 14 34 39
 iPg 47.0
 e 55
 iSn 35 15.1
 eSg 29

25 KJN epP 16 59 32
 OUL eP 16 59 15
 ipP 29.8
 H: 16 46 31.5
 13.3 N, 89.2 W, 70 km
 El Salvador

25 NUR e 21 33 35
 KJN eP 21 33 20
 i 26.4
 OUL iP 21 33 23.4
 i 30.3
 cont.

April				April			
			T	A		T	A
	SOD	eP	21 33 23			eSKS	24 48
		e	27			ePS	28 44
	H:		21 20 22.7			ePPS	30 24
			1.3 N, 120.4 E, 27 km			H:	05 58 49.0
			Northern Celebes				30.6 S, 71.4 W, 23 km
							Central Chile
25	NUR	iP	21 46 20.2	0.7	9.0		
	KJN	iP	21 45 58.7	0.8	26.1	26	NUR
		ipP	46 08.3				iPKP
	OUL	iP	21 45 58.1				ePP
		ipP	46 08.5				ePKKP
	SOD	iP	21 45 46.7				ePS
		ipP	57.2			KJN	iPKP
	KEV	iP	21 45 36.0	0.8	10.1		i
	H:		21 35 23.8				iPP
			39.7 N, 143.2 E, 50 km				iPKP
			Honshu, Japan			OUL	i
							iPP
						SOD	iPKP
							e
26	NUR	iP	04 02 11.6	0.5	9.2		ePP
	KJN	iP	04 02 11.2	0.6	6.2		ePS
		e	03 38			KEV	ePP
	OUL	iP	04 02 21.4				ePS
	SOD	eP	04 02 28				e
	KEV	iP	04 02 37.7				ePPS
							H:
							06 02 49.0
							30.6 S, 71.5 W, depth N
							Central Chile
26	NUR	eP	05 30 45			26	NUR
	KJN	iP	05 30 30.3				iP
		e	40				i
	OUL	iP	05 30 31.5				eP
		i	40.9				i
	SOD	iP	05 30 23.8				iP
		epP	48				
	KEV	iP	05 30 16.9	0.7	10.3		
	H:		05 18 02.0				
			18.1 N, 146.3 E, 99 km				
			Mariana Islands				
26	NUR	ePKP	06 17 36				
		i	42.0				
		ePP	18 52				
		ePKKP	27 55				
		ePS	28 40				
	KJN	iPKP	06 17 40.2				
		i	45.9				
		ePP	19 05				
	OUL	ePKP	06 17 39				
		ePP	19 08				
	SOD	ePKP	06 17 39				
		i	45.2				
		ePP	19 10				
		ePS	28 45				
	KEV	ePP	06 19 08				
		e	20 28				
		ePPP	21 36				
			cont.				

April				T	A	April				T	A	
26	NUR	iP	11 36 21.0	0.7	14.2	SOD	iP	01 50 16.8				
	KJN	iP	11 36 18.2	1.0	22.9		i	27.2				
	OUL	iP	11 36 23.9			KEV	eP	01 50 16				
	SOD	iP	11 36 24.9				e	27				
	H: 11 23 43.7						eSKS	02 00 40				
	3.9 S, 102.8 E, 110 km						eS	01 10				
	Southern Sumatra						eSS	07 24				
26	KJN	iP	12 16 21.7			H: 01 37 14.5						
						0.9 N, 120.1 E, 12 km						
						Northern Celebes						
26	NUR	iP	19 19 22.3	0.6	6.3	27	NUR	iP	11 03 41.0			
	KJN	iP	19 19 05.0 U	0.5	5.9		i	45.2				
	OUL	iP	19 19 07.3				eS	08 02				
	H: 19 07 57.9						KJN	eP	11 04 09			
	28.5 N, 129.3 E, 35 km						i	29.0				
	Ryukyu Islands						OUL	iP	11 04 23.7			
26	NUR	iP	20 29 39.9	0.6	6.3		SOD	eP	11 04 41			
		epP	30 07			H: 10 58 22.0						
	KJN	iP	20 29 37.1 U			36.5 N, 28.4 E, 15 km						
		ipP	30 04.2			Dodecanese Islands						
	OUL	iP	20 29 42.5 U			27	NUR	iPKP	13 18 01.5	0.9	13.4	
		ipP	30 10.2				i	21.9				
	SOD	iP	20 29 43.2				KJN	iPKP	13 18 08.9 U	1.0	50.1	
		ipP	30 10.8				i	14.0				
	KEV	iP	20 29 45.0				i	23.5				
		ipP	30 12.5				iSKP	21 36.0				
	H: 20 17 10.2						OUL	ePKP	13 18 08			
	3.0 S, 102.3 E, 127 km						i	09.6				
	Southern Sumatra						i	29.1				
26	NUR	iP	20 48 35.8	0.8	10.1		SOD	iPKP	13 18 13.8			
26	NUR	iP	20 55 44.0 D	0.8	15.8			ePP	20 36			
	KJN	iP	20 55 32.0					eSKP	21 33			
	OUL	iP	20 55 33.6				KEV	ePKP	13 18 23			
								ePKS	21 40			
26	NUR	iP	22 21 58.1	0.9	8.4	H: 12 59 07.3						
	KJN	iP	22 21 33.9			57.7 S, 25.4 W, 42 km						
	OUL	iP	22 21 27.8			South Sandwich Islands						
	H: 22 11 09.9					27	SOD	eP	17 42 20			
	52.7 N, 168.7 W, 31 km					H: 17 33 00.7						
	Fox Islands					57.9 N, 152.4 W, 25 km						
						Kodiak Island						
27	NUR	eP	01 50 24			28	NUR	eP	00 59 33			
		e	34					eSKS	01 10 00			
		eSKS	02 00 50					ePS	11 44			
		ePS	02 33					eSS	16 20			
		eSS	07 35				KJN	iP	00 59 17.2			
	KJN	eP	01 50 15	1.1	23.0		i	24.5				
		i	23.8				OUL	iP	00 59 18.4			
		i	38.0				SOD	iP	00 59 12.0			
		ePP	54 00				KEV	eP	00 59 06			
	OUL	iP	01 50 18.6					eSKS	01 09 28			
		i	29.1			cont.						
	cont.					cont.						

April						April									
						T	A							T	A
	KEV	iP	23 32	21.2 U	0.8	43.2	29	NUR	eP	20 53	13				
		i		32.0				KJN	iP	20 52	57.5				
		i	33	37.4				OUL	iP	20 52	59.7				
		eS	41	54											
		eSS	46	36											
	H: 23 20 42.9							29	NUR	iP	21 28	49.5	0.7	20.6	
	33.4 N, 116.4 W, 20 km									ePPP	32	52			
	Southern California									eS	37	44			
										eScS	38	40			
29	NUR	eP	00 21	40						eSS	42	08			
								KJN	iP	21 28	26.2				
29	NUR	iP	04 44	37.0 U	0.7	18.1		OUL	iP	21 28	23.3				
		iPP	45	51.2				SOD	iP	21 28	09.5				
		ePPP	46	08					i		48.0				
		eS	50	16				KEV	iP	21 27	56.5				
		eSS	52	52					ePPP	31	24				
	KJN	iP	04 44	53.3 U					eS	35	48				
		i	46	08.3					eScS	37	46				
		iPP		23.0					eSS	40	04				
		eS	50	48				H: 21 18 09.3							
	OUL	iP	04 45	04.0 U				46.5 N, 153.1 E, depth N							
		i		22.4				Kurile Islands							
	SOD	iP	04 45	18.7 U											
		e	46	42				30	KJN	e	11 06	26			
		ePP		51						eSn		47			
	KEV	iP	04 45	34.9 U	1.0	196.0				iSg		49.5			
		iPP	47	12.8					OUL	iPn	11 06	21.4			
		i	48	04.0						iSn		41.4			
		eS	51	36					SOD	e	11 06	27			
		eSS	54	48						eSg		50			
	H: 04 37 40.7														
	29.6 N, 51.5 E, 36 km														
	Southern Iran														
29	NUR	iP	09 42	27.0				30	NUR	eP	15 17	35			
		i		54.8					KJN	eP	15 17	27			
	OUL	eP	09 42	36					OUL	eP	15 17	22			
		e	43	04						i		27.3			
	H: 09 35 25.1								H: 15 04 35.1						
	35.7 N, 70.2 E, 189 km								19.1 N, 104.3 W, 36 km						
	Hindu Kush								Jalisco, Mexico						
29	NUR	iP	20 05	01.0	0.7	7.7	30	KJN	eP	16 46	08				
	KJN	iP	20 05	23.1	1.0	8.7		OUL	eP	16 46	14				
	SOD	eP	20 05	42					i		20.6				
	H: 19 54 45.5								SOD	eP	16 46	17			
	0.8 S, 30.7 E, depth N								H: 16 34 44.9						
	Uganda								8.2 N, 93.0 E, depth N						
								Nicobar Islands							

April

April

				T	A
30	NUR	iP	17 11 57.3	1.0	24.0
	KJN	iP	17 11 43.3 U	0.8	19.2
	OUL	iP	17 11 35.8 U		
	SOD	iP	17 11 24.8		
	KEV	iP	17 11 12.0		
	H: 17 00 00.0				
	37.1 N, 116.0 W, 0 km				
	Southern Nevada				
30	NUR	iP	20 25 22.2	1.1	80.9
		i	32.8		
		eS	29 16		
		eSS	42		
		eLR	20 30.5		
	KJN	iP	20 25 58.0	1.0	81.8
		i	59.2		
		i	27 18.9		
		eS	30 22		
		e	44		
	OUL	iP	20 26 06.3		
		i	07.6		
	SOD	iP	20 26 28.0		
		eS	31 12		
	KEV	iP	20 26 51.2	1.0	20.0
		i	27 32.0		
		i	28 18.2		
	cont.				

				T	A
		eS	31 52		
		e	32 32		
		eLR	20 34.5		
	H: 20 20 31.8				
	39.2 N, 28.6 E, 9 km				
	Turkey				

30	NUR	eP	21 44 18		
	KJN	eP	21 44 04		
	H: 21 31 25.2				
	7.5 N, 124.9 E, 34 km				
	Mindanao, P.I.				

April 9, 1970
Urmes Luosto
Aili Huovila

May	T	A	May	T	A
1 KJN iPg 00 35 39.1 iSg 53.0 OUL iSg 00 35 51.2			1 NUR iP 11 31 26.8 KJN iP 11 31 00.4 OUL iP 11 30 57.2 i 31 08.9 SOD eP 11 30 42 KEV eP 11 30 28 H: 11 21 07.5 52.3 N, 160.7 E, depth N Kamchatka	1.0	8.7
1 NUR eP 02 15 49 KJN eP 02 16 03 i 14.0			1 NUR iP 12 05 07.0 esP 06 25 eS 15 48 ePS 17 08 KJN iP 12 04 57.3 ipP 05 45.9 iPKKP 22 39.0 OUL iP 12 05 00.3 i 01.8 iPKKP 22 36.7 SOD iP 12 04 56.9 epP 05 46 iPKKP 22 38.2 KEV iP 12 04 54.7 eS 15 04 H: 11 52 30.1 5.1 N, 125.2 E, 230 km Mindanao, P.I.	0.6	18.8
1 NUR eSS 03 29 24 eSSS 34 40 SOD ePKP 03 05 03 KEV eSS 03 29 16 eSSS 34 16 H: 02 45 05.0 50.0 S, 114.3 W, depth N Easter Island Cordillera			1 KJN iP 12 48 24.6 SOD eP 12 48 25 H: 12 35 30.2 1.6 N, 123.1 E, 85 km Northern Celebes		
1 NUR iP 03 31 18.0 KJN iP 03 31 14.0 OUL ePKP 03 31 13 H: 03 11 58.3 21.0 S, 174.6 W, depth N Tonga Islands	0.7	5.5	1 KJN ePKP 13 36 20 OUL ePKP 13 36 18 H: 13 18 12.2 18.0 S, 178.4 W, 554 km Fiji Islands		
1 NUR iP 04 07 01.0 i 08.2 e 08 00 KJN iP 04 06 53.0 i 08 01.0 OUL iP 04 07 00.6 i 08.1 SOD eP 04 07 03 KEV eP 04 07 07 i 08 37.8 H: 04 00 08.7 44.0 N, 77.9 E, 53 km Eastern Kazakh SSR	0.7	8.9	1 KJN eP 16 47 53 OUL eP 16 47 57 SOD eP 16 47 56 H: 16 34 58.9 1.3 N, 120.5 E, 62 km Northern Celebes		
1 NUR ePKP 05 25 17 KJN ePKP 05 25 12 H: 05 05 55.8 21.4 S, 174.6 W, 32 km Tonga Islands			1 NUR iP 18 07 37.7 i 57.0 e 11 28 eS 12 06 e 24	1.0	40.0
1 NUR iP 09 19 51.3 KJN iP 09 19 27.1 OUL iP 09 19 20.6 ePcP 20 05 SOD iP 09 19 05.2 KEV iP 09 18 48.0 H: 09 09 14.3 55.0 N, 156.7 W, depth N South of Alaska	0.7	6.5			
	0.6	13.8			

cont.

May				May					
		T	A		T	A			
	SOD eP	05 18 51		3	NUR eP	03 30 57			
	i	53.5			KJN iP	03 31 28.0			
	H: 05 05 16.8				OUL iP	03 31 37.2			
	6.6 S, 129.6 E, 133 km				i	49.5			
	Banda Sea				SOD eP	03 31 57			
2	NUR iP	18 43 47.0	1.1	28.6	KEV eP	03 32 19			
	i	52.9			H: 03 25 33.3				
	eS	48 20			35.3 N, 27.9 E, 45 km				
	KJN iP	18 44 19.0			Dodecanese Islands				
	i	24.8		3	KJN iP	07 33 37.0			
	OUL iP	18 44 27.4			OUL iP	07 33 37.4			
	i	33.5			H: 07 21 18.9				
	SOD eP	18 44 48			19.1 N, 145.4 E, 132 km				
	KEV eP	18 45 12			Mariana Islands				
	i	17.8		3	NUR eP	10 14 17			
	H: 18 38 13.0				KJN eP	10 14 07			
	34.3 N, 26.2 E, 21 km				OUL eP	10 14 07			
	Crete								
2	NUR iP	20 51 00.5		3	NUR ePKP	13 11 53			
	epP	15			KJN ePKP	13 11 45			
	KJN iP	20 50 38.5			OUL ePKP	13 11 40			
	OUL iP	20 50 38.0			H: 12 53 25.5				
	ipP	52.5			23.5 S, 180.0 E, 543 km				
	SOD iP	20 50 26.2			South of Fiji Islands				
	epP	41		3	NUR eP	19 00 56			
	KEV iP	20 50 16.0			KJN eP	19 00 32			
	ipP	30.7			OUL iP	19 00 26.4			
	H: 20 40 11.3				H: 18 50 09.6				
	40.9 N, 143.0 E, 54 km				52.4 N, 171.2 W, 51 km				
	Honshu, Japan				Fox Islands				
2	NUR iP	22 21 21.0	0.9	16.8	3	NUR eP	20 36 38		
	i	32.7				KJN eP	20 37 08		
	KJN eP	22 21 09				OUL iP	20 37 17.1		
	OUL eP	22 21 25				H: 20 31 13.6			
2	NUR iP	22 56 35.0	0.8	15.8		35.2 N, 27.8 E, 44 km			
	ipP	48.9				Dodecanese Islands			
	KJN iP	22 56 13.7 U			3	NUR eP	21 31 50		
	ipP	26.8				KJN eP	21 31 26		
	ePP	58 32				OUL iP	21 31 21.2		
	OUL iP	22 56 13.4 U				SOD eP	21 31 05		
	ipP	25.6				H: 21 21 02.1			
	ePP	58 31				51.8 N, 173.8 W, 57 km			
	SOD iP	22 56 01.9 U				Andreasof Islands			
	ipP	14.4			4	NUR iP	03 29 12.5	0.7	11.6
	KEV iP	22 55 51.7	0.8	18.7		KJN iP	03 29 12.5	0.7	5.5
	ipP	56 04.6				epP	38		
	H: 22 45 44.0								
	40.1 N, 142.3 E, 60 km								
	Honshu, Japan								

cont.

May		T	A	May		T	A
5	NUR ePKP 01 51 28			SOD ePKIKP05 37 02			
	KJN ePKP 01 51 19			i 14.6			
	iPKP ² 35.0	1.1	14.9	iPKP ² 22.3			
	OUL ePKP 01 51 29			KEV iPcP 05 37 12.0			
	ePKP 37			H: 05 17 16.6			
	SOD ePKP 01 51 24			58.1 S, 148.4 E, depth N			
	ePKP 37			West of Macquarie Island			
	KEV ePKP 01 51 25						
	H: 01 31 31.4			5 NUR iP 05 40 58.3 U 1.3 361.5			
	58.2 S, 149.3 E, depth N			iP 41 10.0			
	West of Macquarie Island			iPP 42 15.6			
5	NUR iPcP 02 28 52.5			iPcP 43 40.2			
	i 29 01.2			iPcP 53.5			
	e 39 20			isPcP 59.6			
	KJN ePKP 02 28 40			eS 46 12			
	iPKP ² 52.0			e 54			
	OUL ePKP 02 28 45			LZ 20 5.0u			
	iPKP ² 54.2			LN 22 1.9u			
	SOD ePKP 02 28 44			LE 22 2.6u			
	iPKP ² 52.5			KJN iP 05 41 25.1 U 1.1 220.1			
	KEV iPcP 02 28 54.7			i 35.0			
	e 29 12			iPP 42 47.1			
	H: 02 08 57.2			isPcP 44 08.2			
	57.8 S, 147.6 E, depth N			OUL iP 05 41 24.5 U			
	West of Macquarie Island			iPcP 43 49.0			
5	NUR iP 02 54 31.9 1.1 21.4			ipPcP 44 02.6			
	ePP 56 32			isPcP 08.3			
	eS 03 01 44			SOD iP 05 41 38.4 U			
	eSS 05 20			i 42 00.6			
	KJN iP 02 54 52.8 1.2 39.6			ePcP 43 54			
	i 55.4			eS 47 24			
	OUL iP 02 55 01.2			KEV iP 05 41 51.8 U 1.0 68.0			
	SOD iP 02 55 16.2			i 42 11.2			
	KEV iP 02 55 30.7			ePP 43 32			
	i 32.6			ePcP 59			
	ePPP 59 04			isPcP 44 18.3			
	eS 03 03 40			eS 47 48			
	H: 02 45 38.9			H: 05 34 23.5			
	11.9 N, 41.3 E, 35 km			36.0 N, 10.4 W, 29 km			
	Ethiopia			North Atlantic Ocean			
5	NUR iPcP 05 37 13.5 1.0 24.0			5 NUR eP 10 00 53			
	iPKP ² 23.0			KJN eP 10 00 37			
	KJN ePKP 05 37 10			OUL iP 10 00 38.1			
	i 12.6			SOD eP 10 00 32			
	iPKP ² 21.8			KEV eP 10 00 24			
	OUL iPcP 05 37 11.6			H: 09 49 26.9			
	i 15.8			28.1 N, 130.0 E, 42 km			
	ePKP ² 25			Ryukyu Islands			
	cont.			5 KJN eP 10 26 57			
				cont.			

May				May			
		T	A			T	A
	SOD eP	10 26 48		5	NUR iP	21 51 59.6	1.1 111.9
	H:	10 15 43.8			i	52 02.4	1.2 253.7
		32.6 N, 141.5 E, depth N			e	54 44	
		South of Honshu, Japan			eS	55 36	
5	NUR e	14 12 04			eLR	21 56.6	
	ePPP	14 52		KJN iP	21 51 50.0 U	1.1 294.3	
	eSKS	18 20		i	52 04.6		
	eSKKS	19 44		eS	55 13		
	ePS	22 32		e	31		
	eSS	29 08		OUL iP	21 51 35.8		
	eSSS	33 40		i	37.6		
KJN	ePKP	14 11 29		e	55 28		
OUL	ePKP	14 11 28		SOD iP	21 51 27.3		
SOD	ePKP	14 11 29		i	32.4		
KEV	e	14 12 24		i	42.2		
	eSKS	18 24		eS	54 44		
	ePS	22 48		KEV iP	21 51 22.0		
	eSS	29 40		i	24.5	1.1 361.8	
	e	32 40		i	52.1		
	eSSS	34 16		eS	54 28		
	H:	13 52 39.6		e	38		
		30.8 S, 71.8 W, 38 km		eLR	21 55.2		
		Central Chile		H:	21 47 31.7		
5	NUR eP	14 24 43			66.8 N, 18.2 W, depth N		
	KJN eP	14 25 14			Iceland		
	SOD eP	14 25 43		5	KJN eP	23 43 45	
	H:	14 19 14.6			SOD eP	23 43 27	
		34.7 N, 23.5 E, 64 km			H:	23 39 26.5	
		Crete				66.7 N, 18.2 W, depth N	
						Iceland	
5	NUR iP	15 10 21.5	0.5 18.5	6	KJN eP	01 00 22	
	KJN iP	15 09 59.6	0.8 12.3		OUL iP	01 00 34.4	
	OUL iP	15 09 58.9		6	KJN eP	08 05 36	
	SOD iP	15 09 47.7			SOD eP	08 05 01	
	KEV eP	15 09 36		6	KJN eP	22 11 04	
	H:	14 59 39.1		6	NUR eP	22 24 45	
		40.9 N, 142.0 E, 97 km			KJN eP	22 25 19	
		Honshu, Japan			OUL iP	22 25 25.2	
5	NUR iP	17 59 38.2	0.6 13.8		SOD eP	22 25 44	
	KJN iP	17 59 14.2	0.6 8.9		H:	22 19 19.0	
	OUL iP	17 59 13.0 U				35.2 N, 27.7 E, 34 km	
	e	18 01 03				Dodecanese Islands	
	SOD iP	17 59 00.4 U		6	NUR eP	22 39 26	
	e	18 00 56			e	29	
	KEV iP	17 58 47.7	0.6 7.5		KJN eP	22 40 01	
	H:	17 50 00.8			H:	22 34 38.3	
		48.1 N, 146.8 E, 434 km				39.2 N, 28.2 E, 25 km	
		Sea of Okhotsk				Turkey	
5	KJN eP	18 35 09					

May				May			
		T	A			T	A
	OUL iP	02 58	59.3		10 KJN iP	03 53	30.5
	i	59	09.4		OUL iP	03 53	34.7
	SOD eP	02 58	45		H: 03 40	26.9	
	H: 02 48	03.1			7.8 S, 108.0 E, 90 km		
	35.5 N, 140.1 E,	50 km			Java		
	Honshu, Japan						
8	NUR eP	21 02	50		10 NUR iP	09 34	37.0
	H: 20 52	04.0			i	40.7	
	44.0 N, 149.2 E,	depth N			KJN iP	09 35	02.4
	Kurile Islands				i	05.0	0.9 13.4
9	KJN eP	02 22	12		OUL iP	09 35	11.9
	OUL eP	02 22	14		i	14.5	
	H: 02 10	21.0			ePP	36 47	
	14.7 N, 119.6 E,	64 km			ePcP	37 31	
	Luzon, P.I.				SOD iP	09 35	31.0
					KEV iP	09 35	50.2
					eS	42 12	1.1 19.0
9	NUR iP	07 14	41.0	0.9 13.4	H: 09 27	57.0	
	KJN eP	07 15	18		27.5 N, 34.2 E,	depth N	
	i	19.4			Red Sea		
	i	30.0					
	OUL iP	07 15	24.3		10 NUR iPKP	12 25	37.8
	i	26.6			i	42.5	0.8 57.6
	i	33.8			KJN iPKP	12 25	26.8
	H: 07 09	43.6			OUL iPKP	12 25	26.8
	38.4 N, 20.4 E,	13 km			i	30.9	0.7 5.5
	Greece				SOD ePKP	12 25	29
9	NUR iP	17 10	11.8	0.5 17.2	H: 12 06	27.3	
	KJN iP	17 09	47.0	0.8 11.5	28.1 S, 178.1 W,	196 km	
	OUL iP	17 09	44.3		Kermadec Islands		
	SOD eP	17 09	31		10 KJN ePn	12 29	41
	H: 16 59	34.0			eSn	30 16	
	47.7 N, 155.6 E,	depth N			OUL ePn	12 29	51
	Kurile Islands				i	56.2	
9	OUL eP	19 37	09		eSn	30 31	
	H: 19 26	58.0			e	42	
	53.4 N, 166.8 W,	66 km			Helsinki:		
	Fox Islands				66 N, 34 E		
9	NUR eP	22 01	10		Northwestern Russia		
10	KEV eSKS	01 57	10		10 NUR iP	13 08	16.0
	ePS	58 40			i	30.1	0.8 17.3
	H: 01 33	27.6			eS	16 52	
	19.4 N, 155.1 W,	11 km			KJN iP	13 07	52.3
	Hawaii				OUL iP	13 07	45.0
					SOD iP	13 07	29.6
10	KJN eP	02 17	56		i	34.8	
	OUL eP	02 17	33		KEV iP	13 07	12.0
	SOD eP	02 17	12		ePS	15 08	
					H: 12 57	47.8	
					56.4 N, 153.6 W,	depth N	
					Kodiak Island		

10 KJN ePn 12 29 41
eSn 30 16
OUL ePn 12 29 51
i 56.2
eSn 30 31
e 42
Helsinki:
66 N, 34 E
Northwestern Russia

10D 12H. 29M (08)

May						May			
			T	A				T	A
10	KJN eP	13 38 18			11	NUR eP	10 53 18		
	OUL iP	13 38 16.8				KJN iP	10 52 54.8		
	H:	13 31 15.2				OUL iP	10 52 52.8		
		36.1 N, 10.8 W, depth N				SOD eP	10 52 40		
		North Atlantic Ocean				H:	10 42 46.6		
10	NUR iPKP	20 25 01.1	0.9	13.4			45.0 N, 148.6 E, 112 km		
	KJN ePKP	20 24 58					Kurile Islands		
	OUL ePKP	20 24 50			11	NUR iP	12 22 43.7	0.8	11.5
	H:	20 05 30.7				KJN iP	12 22 28.7	0.8	21.5
		27.8 S, 177.0 W, 34 km				OUL iP	12 22 29.0		
		Kermadec Islands					epP	23 07	
10	NUR iP	21 15 03.6				SOD iP	12 22 22.1		
	KJN iP	21 15 42.5	0.8	5.4		KEV iP	12 22 15.2 U	0.7	19.4
	OUL iP	21 15 49.4				H:	12 10 04.9		
	i	55.9					17.8 N, 145.9 E, 135 km		
	SOD eP	21 16 10					Mariana Islands		
	H:	21 10 37.0			11	NUR eP	13 23 43		
		41.3 N, 20.3 E, 42 km				KJN eP	13 23 42		
		Albania				OUL iP	13 23 54.1		
11	NUR iP	00 27 48.2	1.1	42.8		H:	13 16 32.7		
	i	54.7					36.2 N, 71.3 E, 110 km		
	eS	35 10					Afghanistan-USSR border		
	KJN iP	00 28 02.8	1.0	12.0	11	NUR ePKP	13 28 35		
	i	08.0				KJN iPKP	13 28 42.8		
	OUL iP	00 28 11.1				OUL iPKP	13 28 43.4		
	i	18.4				SOD ePKP	13 28 47		
	ePP	30 12				H:	13 09 42.5		
	SOD eP	00 28 23					56.3 S, 25.7 W, 35 km		
	H:	00 18 41.9					South Sandwich Islands		
		14.3 N, 56.7 E, 32 km			11	NUR ePKP	14 36 30		
		Arabian Sea				KJN iPKP	14 36 30.2	1.0	13.1
11	NUR eP	00 47 53				OUL iPKP	14 36 27.4		
	OUL iP	00 48 32.2				i	43.1		
	H:	00 42 28.8				KEV ePKS	14 39 40		
		35.2 N, 27.8 E, 55 km				H:	14 17 11.9		
		Dodecanese Islands					21.8 S, 175.1 W, depth N		
11	NUR iPKP	00 58 47.6 U	0.7	32.3			Tonga Islands		
	i	51.1			11	NUR eP	15 37 33		
	e	59 06				H:	15 32 02.1		
	KJN iPKP	00 58 35.7					35.5 N, 28.7 E, depth N		
	i	47.2					Eastern Mediterranean Sea		
	OUL iPKP	00 58 36.9 U			11	NUR eP	16 28 39		
	i	46.7				H:	16 23 08.8		
	H:	00 39 11.7					35.2 N, 27.8 E, 29 km		
		30.4 S, 177.9 W, 35 km					Dodecanese Islands		
		Kermadec Islands							

May						May				
				T	A					
						T			A	
11	NUR	iP	18 58 39.0	0.7	10.3	OUL	iP	19 16 56.7		
	KJN	eP	18 59 13				i	17 09.6		
	OUL	iP	18 59 20.8				ePP	18 35		
		e	42			SOD	eP	19 17 09		
	SOD	eP	18 59 31			H:	19 09 09.0			
						27.8 N, 56.5 E, 50 km				
11	NUR	iP	20 12 00.4 U	0.6	10.0	12	NUR	eP	19 23 38	
	KJN	iP	20 11 51.6 U	0.8	13.1		H:	19 18 08.3		
	OUL	iP	20 11 51.1 U				34.5 N, 24.1 E, 21 km			
		i	59.2				Crete			
	SOD	iP	20 11 45.3			13	NUR	iP	04 06 00.7	
12	KJN	ePKP	01 50 03				KJN	iP	04 05 40.6	0.5
	H:	01 31 03.1					OUL	iP	04 05 39.9	5.9
	57.7 S, 25.3 W, 52 km						SOD	iP	04 05 30.8	
	South Sandwich Islands						H:	03 54 52.8		
12	NUR	ePKP	07 43 58				35.8 N, 140.1 E, 72 km			
	KJN	iPKP	07 43 50.4				Honshu, Japan			
	H:	07 25 16.4				13	KJN	eP	06 13 20	
	16.0 S, 175.1 W, 302 km						e	25		
	Tonga Islands						OUL	eP	06 13 24	
12	NUR	eP	12 28 58				SOD	eP	06 13 18	
	KJN	eP	12 29 16				H:	06 00 07.4		
	e	30 07					1.3 N, 126.3 E, 13 km			
	OUL	iP	12 29 27.7				Molucca Passage			
	H:	12 22 45.3				13	OUL	iPKP	10 03 56.1	
	35.5 N, 52.5 E, 29 km						H:	09 45 13.1		
	Iran						15.3 S, 167.6 E, 123 km			
12	NUR	eP	16 42 20				New Hebrides Islands			
	H:	16 37 24.6				13	NUR	iP	10 11 28.8	0.8
	37.7 N, 22.7 E, 86 km						i	12 12.0		13.0
	Southern Greece						KJN	iP	10 11 26.9 U	0.7
12	NUR	eP	17 29 19				e	12 24		16.4
	H:	17 16 28.1					OUL	iP	10 11 35.9 U	
	22.2 S, 12.1 W, depth N						SOD	eP	10 11 42	
	South Atlantic Ridge						H:	10 04 38.6		
12	NUR	iP	19 04 15.0	0.7	6.5		39.9 N, 70.9 E, depth N			
	KJN	iP	19 03 54.8	0.7	8.2		Tadzhik SSR			
	OUL	iP	19 03 54.6			13	KJN	ePKP	11 48 15	
	SOD	iP	19 03 45.6				OUL	ePKP	11 48 15	
	H:	18 53 01.0					H:	11 29 35.0		
	35.0 N, 139.8 E, 52 km						14.8 S, 167.4 E, 142 km			
	Honshu, Japan						New Hebrides Islands			
12	NUR	iP	19 16 33.7	0.8	8.6	13	NUR	iP	14 29 45.4	
	KJN	eP	19 16 45				cont.			
	ePP	18 20					cont.			

May		T	A	May		T	A
	OUL eP	08 18 42			KJN iP	19 43 20.0 U	1.0 512.3
	H: 08 12 38.0				i	46 37.2	
	35.2 N, 27.7 E, 29 km				i	47 34.5	
	Dodecanese Islands				eS	51 49	
14	NUR iP	10 10 39.1	0.7	34.8	eScS	53 15	
	eS	15 04			eP'P'	20 12 13	
	e	16			i	24.0	
	KJN iP	10 11 10.8 D	0.8	16.9	OUL iP	19 43 14.9 U	
	i	32.0			iPP	45 35.6	
	eS	15 58			iS	51 41.9	
	OUL iP	10 11 18.8 D			eP'P'	20 12 13	
	iPcP	14 24.2			i	18.3	
	i	29.5			SOD iP	19 43 00.2 U	
	eS	16 09			i	06.0	
	SOD iP	10 11 40.3 D			eS	51 06	
	KEV iP	10 12 01.8			ePS	36	
	eS	17 28			eScS	52 44	
	H: 10 05 15.8				iP'P'	20 12 19.7	
	35.3 N, 27.8 E, 34 km				i	24.3	
	Dodecanese Islands				KEV iP	19 42 44.0 U	1.0 198.0
14	NUR iP	13 51 03.0	0.7	9.0	ePP	45 00	
	KJN eP	13 50 39			e	47 56	
	OUL iP	13 50 31.6			eS	50 40	
	i	42.1			ePS	51 04	
	SOD eP	13 50 16			eSS	54 12	
	e	26			e	58 08	
	H: 13 40 22.8				iP'P'	20 12 30.4	
	54.8 N, 150.1 W, 21 km				H: 19 32 54.2		
	South of Alaska				51.3 N, 179.9 W, 21 km		
					Andreanof Islands		
14	NUR eSKS	14 12 40			14 OUL iP	19 56 42.1	
	ePS	14 04			14 NUR eP	20 18 29	
	eSS	19 16			OUL iP	20 17 59.0	
	eSSS	22 52			H: 20 07 36.8		
	KEV ePS	14 13 32			50.9 N, 179.7 E, depth N		
	eSS	18 28			Rat Islands		
	H: 13 49 03.1				14 NUR iP	20 21 31.3 D	1.0 54.0
	11.5 N, 86.2 W, 62 km				i	46.7	
	Nicaragua				KJN iP	20 21 06.1 D	1.0 32.7
14	NUR iP	19 43 45.0 U	1.0	1270.0	OUL iP	20 21 01.0	
	i	54.8			SOD iP	20 20 46.2 D	
	ePP	46 24			KEV iP	20 20 30.0	0.8 13.0
	ePPP	48 00			H: 20 10 39.3		
	e	49 08			51.3 N, 179.9 W, 15 km		
	eS	52 36			Andreanof Islands		
	iScS	53 43.8			14 NUR eP	20 44 55	
	eSS	56 56			KJN iP	20 44 32.0	1.1 21.6
	eP'P'	20 12 15			OUL iP	20 44 31.3	
	eLR	20 03.5			i	44.5	
	cont.				cont.		

May				May				
		T	A			T	A	
	SOD	iP	20 44 19.4					
	H:		20 34 09.7	15	NUR	eP	02 33 38	
			43.3 N, 146.5 E, depth N		KJN	eP	02 33 13	
			Kurile Islands		OUL	iP	02 33 08.5	
14	KJN	iP	21 00 41.8	15	NUR	iP	03 40 18.0	
	OUL	iP	21 00 40.7		KJN	eP	03 39 53	
14	NUR	eP	22 57 19		OUL	iP	03 39 51.2	
	KJN	eP	22 56 55		SOD	eP	03 39 38	
	OUL	iP	22 56 50.0		H:		03 29 40.9	
	H:		22 46 31.0				47.0 N, 152.8 E, 37 km	
			51.5 N, 179.7 W, 37 km				Kurile Islands	
			Andreanof Islands	15	NUR	iP	08 05 06.7	
14	KJN	eP	23 50 59			eS	15 04	
	OUL	iP	23 51 02.9			e	16 04	
	SOD	eP	23 50 57			eSS	21 00	
15	NUR	iP	00 02 21.6		KJN	iP	08 04 54.3 U	
		e	33			i	05 14.7	
	KJN	iP	00 02 56.5	1.0	10.9	OUL	iP	08 04 57.1
	OUL	eP	00 03 05				i	05 15.4
	H:		23 57 34.8		SOD	iP	08 04 53.3	
			39.2 N, 28.4 E, 39 km		KEV	iP	08 04 50.0	
			Turkey		H:		07 53 03.8	
							16.1 N, 121.9 E, 57 km	
							Luzon, P.I.	
15	NUR	eP	02 07 22	15	NUR	eP	09 46 43	
		e	27		OUL	eP	09 46 14	
		eS	16 32		H:		09 35 56.3	
		eScS	17 16				51.7 N, 179.9 W, 38 km	
		eSS	21 06				Andreanof Islands	
	KJN	eP	02 07 02	15	NUR	eP	12 11 20	
	OUL	eP	02 06 59			e	23	
	SOD	eP	02 06 52			eS	15 44	
	KEV	eS	02 15 20		KJN	iP	12 11 50.0	
		eSS	19 30			eS	16 38	
		eSSS	23 20		OUL	iP	12 11 58.5	
	H:		01 56 08.8			i	13 10.7	
			34.9 N, 140.0 E, 60 km			iPcP	15 03.8	
			Honshu, Japan			iS	16 54.0	
15	NUR	iP	02 32 29.7	0.8	8.6	SOD	eP	12 12 19
	KJN	iP	02 32 04.5			KEV	iP	12 12 42.0
	OUL	iP	02 32 00.1			H:		12 05 55.5
		i	17.7					35.4 N, 27.8 E, 32 km
		e	48					Dodecanese Islands
	SOD	eP	02 31 44	15	OUL	eP	13 14 00	
	H:		02 21 40.6		H:		13 08 10.7	
			51.3 N, 179.9 W, 33 km				37.6 N, 35.3 E, 41 km	
			Andreanof Islands				Turkey	

May				May			
		T	A			T	A
15	KJN eP	13 37	33			eS	21 04 32
	OUL iP	13 38	11.9			ePS	05 04
						e	44
15	NUR eP	14 00	36			H:	20 43 33.4
	KJN eP	14 01	06				16.8 N, 61.3 W, 50 km
	OUL iP	14 01	15.1				Leeward Islands
	SOD eP	14 01	36				
	H:	13 55	13.0				
		35.2 N,	27.7 E,				
		Dodecanese Islands					
15	NUR iP	17 39	42.8			15 NUR eSKS	23 01 12
	KJN eP	17 39	18			eSP	03 36
	OUL iP	17 39	16.7			KJN iP	22 51 08.0
	SOD eP	17 39	05			ipP	52 44.5
	H:	17 28	54.0			ePP	55 05
		43.4 N,	147.4 E,			OUL iP	22 51 11.7
		depth N				ipP	52 47.7
		Kurile Islands				SOD iP	22 52 45.5
						eSKS	23 01 08
						KEV eSKS	23 01 08
						eSP	03 24
						esPS	06 06
15	NUR iP	20 47	14.0 U	1.1	61.9	H:	22 38 23.2
	i		28.0				7.2 S, 120.3 E, 463 km
	ePP	48 40					Flores Sea
	i		55.2				
	eS	53 16				16 NUR iP	04 09 21.7 U
	KJN iP	20 47	15.1 U	1.0	24.0	i	56.5
	i		33.5			i	10 08.8
	iPP	48 45.0				KJN iP	04 09 08.5 U
	OUL iP	20 47	24.5			i	40.0
	SOD iP	20 47	31.7			OUL iP	04 09 15.8
	e	48 56				e	50
	ePP	49 16				SOD iP	04 09 16.2 U
	KEV iP	20 47	41.4	1.1	75.6	e	53
	ePP	49 24				KEV iP	04 09 19.0 U
	H:	20 39	45.8			i	55.2
		34.6 N,	70.9 E,			i	10 14.1
		22 km				H:	04 02 57.1
		Afghanistan					49.8 N, 78.1 E, 0 km (G)
							Eastern Kazakh SSR
15	NUR iP	20 55	04.0	0.7	28.4		
	ipP		13.2				
	i		46.0			16 NUR iP	05 14 57.7
	eS	21 04	28			KJN iP	05 15 30.2
	eSS	09 48				OUL iP	05 15 39.0
	eSSS	12 28				SOD eP	05 15 56
	KJN iP	20 55	08.9 U	1.0	64.3	i	16 06.8
	ipP		20.0			H:	05 09 32.7
	OUL iP	20 55	03.9				34.9 N, 24.4 E, 33 km
	epP		13				Crete
	SOD iP	20 55	04.0				
	ipP		15.3			16 NUR iP	07 07 19.2 U
	eS	21 04	32			KJN iP	07 07 00.2 U
	KEV iP	20 55	04.8	0.7	46.2	ipP	08 28.0
	ipP		15.2			OUL iP	07 07 00.3
	i		36.2			ipP	08 28.8
			cont.				cont.

May						May			
			T	A			T	A	
	SOD	iP	07 06 52.1 U			SOD	iP	16 31 13.1	
	KEV	iP	07 06 44.4 U	0.8	30.2		epP	27	
			H: 06 56 38.9				isP	33.8	
			32.9 N, 136.7 E, 405 km					H: 16 18 46.8	
			Southeast of Shikoku, Japan					0.5 S, 99.4 E, 50 km	
								Southern Sumatra	
16	NUR	iPKP	07 22 50.5	1.0	78.0	17	KJN	eP	11 05 59
		i	56.7				SOD	eP	11 05 36
	KJN	ePKP	07 22 37			17	NUR	eP	15 42 26
		i	46.4				KJN	iP	15 42 01.2
		ePP	25 41				OUL	iP	15 41 56.4
		iPKS	26 21.0				SOD	eP	15 41 42
	OUL	iPKP	07 22 39.3				KEV	eP	15 41 25
		i	53.6					H: 15 31 46.5	
	KEV	ePKP	07 22 19					51.8 N, 176.5 E, 55 km	
		ePP	25 16					Rat Islands	
		ePKS	26 12			17	KJN	eP	18 17 54
			H: 07 03 22.2				OUL	iP	18 17 47.3
			27.5 S, 176.6 W, 50 km (G)				SOD	eP	18 17 32
			Kermadec Islands			18	KJN	eP	00 16 03
16	NUR	iP	07 31 46.9	0.7	19.4		OUL	iP	00 15 58.3
		i	54.0					H: 00 05 41.7	
		i	32 47.3					51.5 N, 175.8 E, depth N	
		eS	35 36					Rat Islands	
	KJN	iP	07 32 24.0	0.9	51.8	18	KJN	ePKP	00 34 16
	OUL	iP	07 32 30.5				OUL	ePKP	00 34 12
		i	31.9				KEV	eSS	00 50 36
		i	35 10.4					eSSS	54 20
		iPcP	57.2					H: 00 15 31.5	
	SOD	iP	07 32 53.3 U					9.0 S, 158.4 E, 16 km	
		ePcP	36 04					Solomon Islands	
	KEV	iP	07 33 14.5 U	0.9	28.6	18	NUR	eP	00 49 07
			H: 07 26 58.7				KJN	iP	00 48 41.6
			39.2 N, 21.8 E, 20 km				OUL	iP	00 48 37.1
			Greece				SOD	eP	00 48 21
								H: 00 38 28.3	
16	KJN	eP	15 49 41					52.1 N, 173.7 E, 34 km	
		eS	51 38					Near Islands	
	OUL	eP	15 49 24			18	KJN	iP	03 17 08.8
		iS	51 08.9				OUL	iP	03 17 19.5
	SOD	eP	15 48 57				SOD	eP	03 17 34
		eS	50 25			18	NUR	iP	08 54 06.7 U
	KEV	eP	15 48 32					i	12.0
		eS	49 33					i	55 02.8
								cont.	
16	NUR	iP	16 31 08.3					cont.	
	KJN	iP	16 31 06.1 U	0.8	9.2	18	NUR	iP	08 54 06.7 U
		i	24.5					i	12.0
	OUL	iP	16 31 11.4					i	55 02.8
		ipP	27.3					cont.	
			cont.						

May				May							
		T	A		T	A					
	eS	09 02 12		18	NUR	iP	21 07 07.7 U	0.9	20.2		
	eScS	03 52				e	19				
	e	05 24				ePS	16 16				
	eSS	06 12			KJN	iP	21 06 45.4 U	0.7	13.0		
	e	40			OUL	iP	21 06 44.7 U				
OUL	iP	08 53 35.0 U			SOD	iP	21 06 33.4				
	i	39.3			KEV	iP	21 06 22.3 U	0.9	13.4		
	i	54 00.4				e	39				
SOD	iP	08 53 18.3 U			H:	20 56 22.4					
	i	23.4				41.4 N, 142.4 E, 52 km					
	i	27.2				Hokkaido, Japan					
KEV	iP	08 53 00.6 U	1.0	112.0							
	i	05.8			18	KJN	eP	23 09 16			
	ePP	54 56				OUL	iP	23 09 15.7			
	ePcS	58 14				SOD	eP	23 09 06			
	eS	09 00 08				H:	22 58 05.4				
	eScS	02 50					33.0 N, 141.4 E, 41 km				
	H:	08 44 03.6					Honshu, Japan				
		60.3 N, 146.0 W, 6 km			19	NUR	iP	02 42 06.0			
		Southern Alaska				KJN	eP	02 41 48			
18	KJN	eP	09 58 33			SOD	eP	02 41 39			
	OUL	eP	09 58 36								
	SOD	eP	09 58 32			19	KJN	ePKP	05 56 38		
	H:	09 45 34.0					e	47			
		2.3 N, 128.7 E, 113 km					H:	05 37 21.9			
		Halmahera						21.1 S, 174.6 W, depth N			
								Tonga Islands			
18	NUR	iP	10 57 02.2			19	NUR	iP	08 54 19.2	0.6	7.5
	KJN	eP	10 56 39				KJN	iP	08 54 17.5	0.7	4.1
	OUL	iP	10 56 36.5				OUL	iP	08 54 26.5		
	SOD	eP	10 56 24								
	H:	10 46 16.4				19	NUR	iP	10 08 55.7	0.8	18.7
		44.0 N, 149.5 E, 50 km (G)					KJN	iP	10 08 55.2	0.7	11.0
		Kurile Islands					OUL	iP	10 09 04.4		
								ipP	37.7		
18	NUR	iP	13 42 36.4	1.0	26.0		SOD	iP	10 09 11.2		
	KJN	iP	13 42 45.0	1.0	10.9		KEV	iP	10 09 19.7	0.7	9.0
	OUL	eP	13 42 50				H:	10 01 47.8			
	SOD	eP	13 42 56					36.1 N, 71.3 E, 141 km			
	H:	13 29 55.4						Afghanistan-USSR border			
		19.5 S, 66.0 E, depth N				19	NUR	iP	18 19 33.3	0.8	13.0
		Mascarene Islands						i	40.0		
								eS	23 52		
18	NUR	iPKP	14 03 25.3				KJN	eP	18 20 01		
	KJN	iPKP	14 03 18.9	0.7	6.9			i	10.0		
	OUL	iPKP	14 03 19.1					e	21 14		
	SOD	ePKP	14 03 15				OUL	eP	18 20 10		
	KEV	ePKP	14 03 11				KEV	e	18 21 40		
	H:	13 44 35.5					H:	18 14 24.0			
		15.6 S, 167.6 E, 131 km						37.8 N, 35.1 E, 34 km			
		New Hebrides Islands						Turkey			

May					May										
			T	A			T	A							
20	NUR	iPKP	01 20	56.8	0.8	54.7	21	KJN	ePKP	02 29 25					
	KJN	iPKP	01 20	44.6					H:	02 09 56.6					
		i		52.0						33.1 S, 179.9 E, 33 km					
	OUL	iPKP	01 20	45.4						South of Kermadec Islands					
		i		50.5											
	SOD	ePKP	01 20	38			21	NUR	iP	03 09 25.0	0.9	26.9			
		H:	01 01 15.9						eS	19 44					
			30.7 S, 177.8 W, 9 km						ePS	21 00					
			Kermadec Islands						eSS	25 30					
20	KJN	iP	02 50	11.0	0.7	6.9		KJN	iP	03 09 13.2 U	1.0	30.5			
	SOD	eP	02 50	12					i	33.1					
20	NUR	ePKP ²	03 29 20					OUL	iP	03 09 15.7					
	KJN	ePKP ²	03 29 20						e	27					
	OUL	iPKP ²	03 29 14.7					SOD	iP	03 09 11.6					
	SOD	ePKP ²	03 29 10						i	22.1					
		H:	03 08 21.2						eS	19 28					
			54.6 S, 130.9 W, depth N					KEV	iP	03 09 08.9					
			South Pacific Cordillera						e	20					
									eS	19 20					
20	SOD	eP	03 55 56						H:	02 56 49.2					
		H:	03 43 13.1							11.7 N, 125.8 E, 26 km					
			3.0 N, 128.6 E, 217 km							Samar, P.I.					
			North of Halmahera					21	KJN	eP	06 47 17				
20	KJN	eP	06 46 37						OUL	iP	06 47 26.5				
	OUL	eP	06 46 36							Moscow:					
	SOD	eP	06 46 25							H:	06 40 17				
		H:	06 35 57.7								38.2 N, 69.5 E				
			38.6 N, 141.5 E, 41 km								Tadzhik SSR				
			Honshu, Japan												
20	NUR	iP	14 32 33.8 U	0.5	23.8			21	NUR	iP	15 38 53.0 U	0.7	74.8		
	KJN	iP	14 32 11.8 U	0.8	14.6				KJN	iP	15 38 53.2 U	0.8	62.3		
	OUL	iP	14 32 10.3 U							epP	39 36				
	SOD	eP	14 32 00							ePP	40 23				
		H:	14 21 49.3						OUL	iP	15 39 02.5 U				
			41.0 N, 141.9 E, 71 km							ePcP	41 10				
			Hokkaido, Japan						SOD	iP	15 39 09.7				
20	NUR	iP	15 10 26.6	0.7	23.2				KEV	iP	15 39 18.8 U	0.8	70.5		
		i	35.2							H:	15 31 59.9				
	KJN	iP	15 10 03.9								36.4 N, 70.2 E, 229 km				
		i	13.1								Hindu Kush				
	OUL	iP	15 10 02.0												
		i	11.0					21	KJN	eP	19 59 22				
	SOD	iP	15 09 49.0							eS	20 01 03				
		i	51.0							OUL	eP	19 59 05			
	KEV	iP	15 09 37.9	0.8	7.2						eS	20 00 34			
		H:	14 59 38.9							SOD	eP	19 58 40			
			43.4 N, 147.5 E, 25 km (G)								eS	59 50			
			Kurile Islands							KEV	eP	19 58 17			
											eS	59 08			
											e	21			

May				T	A	May				T	A	
21	NUR	iP	21 56 06.4 U	0.7	21.9	OUL	ePKP	16 29 09				
		ipP	19.7					H: 16 10 22.8				
	KJN	iP	21 55 43.1 U	0.8	16.1			12.2 S, 165.7 E, 38 km				
		ipP	55.5					Santa Cruz Islands				
	OUL	iP	21 55 40.9			22	NUR	iP	19 14 21.2	0.9	16.8	
		ipP	53.8									
	SOD	iP	21 55 28.6 U			22	NUR	eP	21 04 31			
		ipP	41.3				KJN	iP	21 04 04.1	0.7	4.1	
	KEV	eP	21 55 16				OUL	iP	21 04 00.0			
			H: 21 45 19.2					H: 20 54 16.3				
			44.0 N, 149.6 E, 40 km (G)					53.2 N, 162.6 E, 54 km				
			Kurile Islands					Kamchatka				
22	NUR	eP	05 22 24			22	NUR	iP	21 45 51.3 D	1.0	38.0	
	KJN	iP	05 21 55.8	0.7	9.6		KJN	iP	21 45 33.8 D	0.9	18.8	
	OUL	eP	05 21 38				OUL	iP	21 45 34.4			
	SOD	eP	05 21 17				SOD	iP	21 45 26.3 D			
22	NUR	iP	09 47 49.6	0.8	11.5		KEV	iP	21 45 18.3 D	0.9	20.2	
		i	57.7					H: 21 34 34.6				
	KJN	iP	09 47 28.2 U	0.9	14.3			27.4 N, 140.1 E, 395 km				
		i	36.5					Bonin Islands				
	OUL	iP	09 47 26.8			22	NUR	iP	22 43 21.0	0.9	16.8	
		i	35.2				KJN	iP	22 43 18.0	0.9	14.3	
	SOD	iP	09 47 16.6					i	46.6			
		i	25.2				OUL	eP	22 43 23			
			H: 09 36 42.9					epP	41			
			38.3 N, 143.0 E, depth N				SOD	eP	22 43 24			
			Honshu, Japan					H: 22 30 29.8				
22	NUR	iP	09 49 50.0					5.7 S, 103.2 E, 68 km				
	KJN	iP	09 49 10.3					Southern Sumatra				
	OUL	iP	09 48 54.9			22	NUR	eP	22 51 37			
		i	49 00.2									
	SOD	iP	09 48 27.1			23	NUR	iP	00 16 08.1	0.8	11.5	
22	NUR	eP	11 51 55				KJN	iP	00 16 47.3	1.0	8.7	
	KJN	iP	11 51 34.8 U	0.6	17.8			i	53.5			
	OUL	iP	11 51 34.4				OUL	eP	00 16 42			
	SOD	eP	11 51 24				SOD	iP	00 16 46.1			
			H: 11 40 49.6				KEV	iP	00 16 49.0	1.0	12.0	
			36.6 N, 140.4 E, 66 km					H: 00 06 51.3				
			Honshu, Japan					26.6 N, 44.6 W, depth N				
22	KJN	ePKP	12 39 37					North Atlantic Ridge				
	OUL	ePKP	12 39 36			23	KJN	eP	04 48 39			
			H: 12 21 24.0					H: 04 35 59.3				
			23.5 S, 179.9 W, 589 km					6.6 N, 126.6 E, 129 km				
			South of Fiji Islands					Mindanao, P.I.				
22	NUR	ePKP	16 29 16			23	NUR	iP	13 15 24.0 D	0.7	32.3	
			cont.					i	32.7			
								cont.				

May				May			
		T	A		T	A	
	ePP	17	44				
	eS	24	16				
	eSS	28	32				
KJN	iP	13 15	00.2 D	0.9	25.9		
	i		34.0				
OUL	iP	13 14	53.4 D				
SOD	iP	13 14	37.8 D				
	i		48.0				
	i	15	16.8				
KEV	iP	13 14	21.1 D	0.8	50.4		
	ePP	16	28				
	eS	22	18				
	e		48				
	eSS	26	00				
	H: 13 04 36.6						
	53.4 N, 160.2 W, 32 km (D)						
	South of Alaska						
23	NUR	iPKHKP	14 49 30.0				
		i	32.7				
KJN	iPKP	14 49	21.4				
		i	27.3				
OUL	iPKP	14 49	21.8				
		i	27.5				
SOD	ePKP	14 49	16				
KEV	iPKP	14 49	12				
		i	13.1				
	H: 14 29 43.1						
	39.7 S, 175.6 E, 70 km						
	North Island, N.Z.						
23	SOD	iP	15 56 51.2				
23	KJN	iP	16 02 18.0				
	SOD	eP	16 02 10				
	H: 15 50 42.5						
	29.4 N, 142.2 E, 43 km						
	South of Honshu, Japan						
23	NUR	iP	16 24 12.4	0.8	8.6		
	KJN	iP	16 24 01.4	0.7	11.6		
	OUL	eP	16 24 04				
	SOD	eP	16 23 59				
	H: 16 11 21.4						
	7.4 N, 126.8 E, 66 km						
	Mindanao, P.I.						
23	NUR	iP	17 19 34.7	0.6	16.3		
	KJN	iP	17 19 32.0	0.6	11.0		
	OUL	iP	17 19 37.8				
	SOD	iP	17 19 40.3				
	cont.						
	KEV	iP	17 19 41.6				
	H: 17 07 42.2						
	3.7 N, 95.7 E, 47 km (D)						
	Northern Sumatra						
23	NUR	ePn	18 41 50				
		eSn	42 53				
		e	43 12				
		eSb	17				
		iSg	21.6				
KJN	iPn	18 40	59.3				
		iSn	41 22.4				
OUL	iPg	18 40	44.5				
SOD	iPg	18 40	51.7				
		iSg	41 09.8				
KEV	ePb	18 41	32				
		ePg	35				
		eSn	42 09				
		iSb	19.0				
	Helsinki:						
	H: 18 40 26						
	66.0 N, 27.5 E						
	Northern Finland						
23	NUR	iPKP	22 13 05.4	0.8	14.4		
	KJN	iPKP	22 12 58.0	0.8	9.2		
	OUL	iPKP	22 12 57.3				
	H: 21 54 21.5						
	14.6 S, 167.4 E, 177 km						
	New Hebrides Islands						
24	NUR	eP	02 37 17				
	KJN	iP	02 36 52.5				
	OUL	iP	02 36 47.8				
	H: 02 26 35.6						
	51.7 N, 174.7 E, 42 km						
	Near Islands						
24	NUR	eP	02 57 46				
24	KJN	eP	03 43 51				
	H: 03 30 53.8						
	4.0 N, 127.9 E, 84 km						
	Talaud Islands						
24	KJN	iP	06 06 17.1	0.7	8.2		
		i	07 08.2				
	OUL	iP	06 06 26.4				
	BCIS:						
	H: 05 59 12						
	28.0 N, 34.0 E						
	Red Sea						

May		T	A	May		T	A
	SOD eP	09 40 15			OUL iP	16 37 54.0	
	KEV eP	09 40 13			SOD iP	16 37 38.4	
	H: 09 27 03.8				KEV iP	16 37 21.3	
	0.2 S, 125.0 E, depth N				H: 16 28 25.7		
	Molucca Sea				60.4 N, 140.7 W, 2 km		
27	NUR eP	11 58 43			27	NUR iP	21 03 20.0
	KJN iP	11 58 27.9	0.5	5.1		KJN eP	21 02 56
	OUL iP	11 58 28.5				OUL eP	21 02 54
	SOD iP	11 58 21.6				SOD eP	21 02 43
	KEV iP	11 58 13.9	0.6	17.9		H: 20 52 34.1	
	H: 11 46 46.1					44.5 N, 148.6 E, 18 km	
	21.7 N, 143.0 E, 309 km					Kurile Islands	
	Mariana Islands						
27	NUR iP	12 37 47.0	1.1	19.0	27	NUR iP	21 51 45.0
	i	58.7				KJN iP	21 51 31.0
	eSS	56 44				SOD eP	21 51 30
	e	59 40			27	NUR eP	21 53 43
	eSSS	13 01 08				KJN eP	21 52 56
	KJN ePKP	12 37 52				SOD eP	21 52 09
	i	38 07.0			28	NUR eP	02 05 25
	iSKP	41 18.0				KJN iP	02 05 52.5
	e	29				OUL iP	02 06 02.1
	OUL iP	12 37 54.5				SOD eP	02 06 20
	i	38 05.3			28	KJN iP	03 27 03.1
	iSKP	41 19.0				OUL iP	03 26 42.8
	SOD ePKP	12 37 57			28	NUR eP	03 33 05
	eSKP	41 28				KJN iP	03 32 31.3
	KEV ePP	12 41 32				OUL iP	03 32 17.2
	H: 12 18 45.6					SOD eP	03 31 52
	59.9 S, 26.5 W, 19 km (D)					KEV iP	03 31 29.8
	South Sandwich Islands				28	NUR eP	03 38 55
27	NUR eP	14 26 57	0.9	8.4		KJN eP	03 38 21
	KJN iP	14 26 43.5 U	0.8	10.8		i	22.8
	OUL iP	14 26 35.6				eS	40 27
	SOD iP	14 26 25.1				eT	45 02
	H: 14 15 00.0					OUL iP	03 38 04.9
	37.1 N, 116.0 W, 0 km					i	08.9
	Southern Nevada					eT	44 30
27	NUR iP	15 20 18.0	0.8	20.2		SOD eP	03 37 41
	i	27.4				eS	39 25
	KJN iP	15 20 11.0 U	0.7	6.9		KEV iP	03 37 19.0
	OUL iP	15 20 10.6 U				eS	38 29
	H: 15 01 21.9					H: 03 35 34.7	
	10.7 S, 164.4 E, 8 km					73.8 N, 10.1 E, depth N	
	Santa Cruz Islands					Norwegian Sea	
27	NUR iP	16 38 26.8 U	0.9	21.8			
	KJN iP	16 38 03.2	0.7	6.9			
	cont.						

May						May			
				T	A				
28	NUR	iP	03 53	40.0	U	1.2	51.3	iPP	47 20.5
		i		51.0		1.0	106.5	i	27.7
	KJN	iP	03 53	29.0	U	1.2	98.0	eSKS	53 44
		i		39.0				e	54 11
	OUL	iP	03 53	32.0				eS	28
		i		41.9				ePS	55 48
	SOD	iP	03 53	27.0				eSS	14 00 48
		i		37.7				KJN eP	13 43 27
	KEV	eP	03 53	24				ipP	44 06.3
		i		34.2				iPP	47 25.0
		i		38.3				i	35.3
	H: 03 41 01.8							iSKS	53 50.0
	11.8 N, 125.8 E, 6 km							ePKKP	14 00 09
	Samar, P.I.							e	28
								OUL iP	13 43 23.8
28	NUR	iP	04 00	39.8				i	44.7
		i		56.0				ipP	44 02.2
		i	01	12.0				ePP	47 10
		eS	04	04				SOD eP	13 43 22
		eTmax	08	25				ePP	47 09
	KJN	iP	04 00	04.8	0.9	26.8		KEV eP	13 43 22
		i		42.5				ePP	46 34
		eS	02	17				e	47 14
		i	03	23.9				iSKS	53 43.8
		iTmax	07	10.5				ePS	55 53
	OUL	iP	03 59	47.8				H: 13 30 08.9	
		i		50.5				2.1 S, 76.9 W, 177 km (D)	
		eTmax	04 06	23				Peru-Ecuador border	
	SOD	eP	03 59	24				28 NUR eP	17 23 44
		e	04 00	02				KJN eP	17 23 20
		eTmax	05	27				SOD eP	17 23 07
	KEV	iP	03 59	04.0				H: 17 13 14.8	
	H: 03 57 19.4							44.8 N, 147.3 E, 101 km	
	73.5 N, 8.2 E, depth N							Kurile Islands	
	Greenland Sea								
28	KJN	eP	13 22	02				28 KJN iP	18 53 52.6
	H: 13 08 10.0							OUL iP	18 53 56.1
	10.9 S, 118.4 E, 17 km							SOD eP	18 53 52
	South of Sumbawa Island								
28	NUR	iP	13 38	19.2	1.1	23.8		28 KJN eP	20 02 58
	KJN	iP	13 37	59.0	0.7	6.9		SOD eP	20 02 50
		i		38 07.8				H: 19 52 22.6	
	OUL	iP	13 38	10.6				32.6 N, 138.4 E, 295 km	
	SOD	eP	13 37	57				South of Honshu, Japan	
		i		38 06.6					
28	NUR	iP	13 43	24.2	1.2	28.5		28 NUR iP	21 58 48.3
		i		37.0				KJN eP	21 59 23
		i	46	43.7				SOD eP	21 59 52
	cont.							H: 21 53 55.6	
								38.8 N, 21.7 E, 21 km	
								Greece	

May				T	A	May				T	A
28	NUR	iP	22 36 28.1	0.6	10.0	29	KJN	iP	13 28 28.8		
	KJN	iP	22 36 06.4	0.6	12.3		SOD	eP	13 28 17		
	OUL	iP	22 36 06.0								
	SOD	iP	22 35 54.7			29	NUR	eP	13 57 02		
	H:		22 25 33.2				KJN	iP	13 56 40.5	0.7	8.9
			40.3 N, 142.0 E, 18 km				OUL	iP	13 56 39.8		
			Honshu, Japan				SOD	iP	13 56 28.6		
							H:		13 46 01.1		
29	KJN	eP	01 00 01						39.9 N, 143.2 E, 10 km		
	i		10.4						Honshu, Japan		
29	NUR	iP	03 06 24.5			29	OUL	iP	15 28 16.6		
	KJN	eP	03 06 22				SOD	eP	15 28 25		
	OUL	eP	03 06 33								
29	KJN	iP	06 53 55.0	0.7	11.0	29	NUR	iPKP	16 36 35.7		
	OUL	iP	06 53 59.8					iSKP	39 46.0		
29	NUR	eSKP	07 40 08				KJN	ePKP	16 36 23		
	H:		07 17 26.8					iSKP	39 36.3		
			15.0 S, 173.3 W, 33 km				OUL	iPKP	16 36 31.4		
			Tonga Islands					iSKP	39 35.5		
							H:		16 17 35.1		
29	KJN	eP	08 51 38						29.4 S, 178.8 W, 306 km		
	SOD	eP	08 51 30						Kermadec Islands		
	KEV	eP	08 51 24			29	NUR	ePKP	17 11 51		
	H:		08 38 46.8				KJN	iPKP	17 11 46.4		
			15.7 N, 147.3 E, 14 km				H:		16 52 32.1		
			Mariana Islands						19.9 S, 174.7 W, depth N		
									Tonga Islands		
29	NUR	iPKP	10 41 01.7			29	NUR	iP	19 17 09.0		
	KJN	ePKP	10 40 54	1.2	12.0						
	OUL	ePKP	10 40 54			29	NUR	eP	20 38 27		
	H:		10 22 38.0					iPP	42 00.8		
			20.3 S, 177.7 W, 510 km (G)				KJN	eP	20 38 24		
			Fiji Islands					epP	39 19		
29	KJN	ePKP	11 40 52					iPP	41 56.0		
	H:		11 22 35.0				OUL	iP	20 38 19.0		
			20.2 S, 177.7 W, 510 km (G)					epP	39 14		
			Fiji Islands					ePP	41 47		
29	NUR	iP	13 09 50.1				SOD	eP	20 38 14		
	i		52.3					ePP	41 38		
	i		12 25.6				KEV	ipP	20 39 03.3		
	KJN	iP	13 09 39.1	0.9	8.9		H:		20 25 56.2		
	i		10 05.0						14.7 N, 90.6 W, 218 km		
									Guatemala		
29	NUR	eP	13 27 18			30	NUR	iP	01 10 06.1		
	KJN	iP	13 26 56.5	1.0	16.4						
	OUL	eP	13 26 56								
	SOD	eP	13 26 45			30	OUL	ePKP	10 12 02		
	H:		13 16 20.3				H:		09 53 24.2		
			39.8 N, 143.2 E, depth N						16.1 S, 168.1 E, 184 km		
			Honshu, Japan						New Hebrides Islands		

May			T	A	May			T	A
30	NUR	ePKP	15 34 30			eSKS	49 06		
	KJN	ePKP	15 34 21	1.0	17.4	e	52 00		
		iSKP	37 02.2			eSS	17 03 35		
	OUL	ePKP	15 34 19			e	05 22		
		iSKP	37 01.0			H:	16 22 47.8		
	KEV	ePKP	15 34 13				32.3 S, 178.1 W, depth N		
		H:	15 16 10.6				South of Kermadec Islands		
			21.1 S, 178.8 W, 583 km						
			Fiji Islands						
30	KJN	iPKP	15 56 38.0			30	NUR	eP	17 01 26
	OUL	iPKP	15 56 37.0				KJN	eP	17 01 15
		H:	15 38 55.0			30	NUR	eP	17 49 06
			12.7 S, 168.9 E, 652 km				i	27.2	
			Santa Cruz Islands				KJN	eP	17 48 55
30	NUR	iPKP	16 15 19.0 U	1.2	209.4	30	NUR	eP	20 46 13
		i	38.3				KJN	eP	20 45 48
		iPP	18 49.0			30	KJN	eP	23 33 17
	KJN	iPKP	16 15 06.9 U	1.4	183.6		OUL	eP	23 33 20
		i	19.2				H:	23 19 37.7	
		i	16 04.8					7.0 S, 129.8 E, 104 km	
		i	14.7					Banda Sea	
		iPP	18 28.8			30	NUR	iP	23 42 31.0
		iSKP	51.8				KJN	iP	23 42 18.3
	OUL	iPKP	16 15 07.0 U					0.9	16.4
		i	14.8					0.8	4.6
		iSKP	18 51.3			30	NUR	ePKP	23 53 05
	SOD	ePKP	16 15 01				i	18.8	0.8
		eSKP	18 44				KJN	iPKP	23 52 53.0
	KEV	ePKP	16 14 56				OUL	ePKP	23 52 59
		ePP	17 56				H:	23 33 23.1	
		iSKP	18 41.0					32.0 S, 178.5 W, depth N	
		e	24 40					South of Kermadec Islands	
		ePPS	30 30			31	NUR	iPKP	00 24 36.2
		eSS	36 20				i	50.0	0.7
		H:	15 55 37.1				KJN	iPKP	00 24 23.4
			32.2 S, 178.1 W, 34 km				OUL	ePKP	00 24 20
			South of Kermadec Islands				H:	00 04 56.4	
30	NUR	iPKP	16 42 29.2	0.7	60.3			31.6 S, 178.2 W, 32 km	
		i	33.4					Kermadec Islands	
		iPP	45 54.0			31	KJN	eP	02 44 32
	KJN	iPKP	16 42 16.5 U	1.5	199.8				
	OUL	iPKP	16 42 17.8 U			31	NUR	iP	05 08 18.4 U
		i	23.0				e	53	0.5
	SOD	ePKP	16 42 11				i	09 06.5	24.5
		ePP	45 14						
	KEV	ePKP	16 42 12				KJN	iP	05 08 05.5 U
		i	15.6				e	34	0.5
		ePP	45 12					cont.	30.9
		e	48						
		e	48 10						
			cont.						

May

May

T A

T A

OUL iP 05 08 12.5
e 59
iPcP 11 11.5
SOD iP 05 08 13.0 U
i 09 03.7
KEV iP 05 08 15.9 0.6 18.0
H: 05 01 56.6
50.0 N, 77.7 E, 0 km (G)
Eastern Kazakh SSR

31 NUR eP 11 02 49
i 57.0

31 KJN iP 11 20 36.5
OUL eP 11 20 31
H: 11 07 17.1
1.8 S, 77.7 W, 172 km
Ecuador

31 NUR eSn 14 05 59
e 06 16
KJN ePn 14 04 16
eSn 05 22
i 52.0
iSg 54.9
OUL ePn 14 04 01
ePg 17
e 32
eSn 56
i 05 18.0
SOD ePn 14 04 01
eSn 57
i 05 20.2
KEV eSn 14 05 17
eSb 42
Helsinki:
H: 14 02 46
66.4 N, 14.2 E
Northern Norway

31 NUR eP 21 46 47
i 56.0
KJN eP 21 46 34
OUL eP 21 46 37

31 NUR eP 22 06 48
i 50.6
ipP 07 16.8
iPP 08 10.2
KJN iP 22 06 47.4 0.6 4.1
ipP 07 17.4
isP 32.9
i 08 07.0
cont.

iPP 16.0
OUL iP 22 06 56.3
ipP 07 26.5
isP 41.8
iPP 08 24.8
SOD iP 22 07 06.3
ePP 08 35
KEV iP 22 07 12.1
i 16.5
iPP 08 52.0

H: 21 59 41.9
36.3 N, 70.9 E, 134 km
Hindu Kush

31 KJN ePKP 22 28 29
H: 22 09 19.5
16.0 S, 173.0 W, depth N
Tonga Islands

31 NUR ePKP 22 43 50
ePP 46 16
ePKS 47 18
e 54 40
eSS 23 04 00
KJN ePKP 22 43 42
e 53
ePKS 47 08
OUL ePKP 22 43 41
e 53
KEV ePP 22 45 20
e 50
ePS 55 20
ePPS 56 40
eSS 23 02 16

H: 22 24 32.0
16.0 S, 172.9 W, 15 km
Samoa Islands

31 NUR iP 22 55 20.5 0.8 14.1
KJN eP 22 55 03
OUL eP 22 55 04

May 11, 1970
Urmas Luosto
Aili Huovila

date indicated

P60

22 JUN 1970

Helsinki, Finland
Seism. Bull. 1969

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June								June							
				T	A					T	A				
1	NUR	iPKP	00 14 12.0 U	1.0	16.4	1	NUR	eP	02 18 18						
		ePKKP	25 01				KJN	iP	02 18 07.8 U	0.7	8.9				
	KJN	eP	00 10 05					i	16.0						
		ePKP	14 06				OUL	iP	02 18 10.3						
		e	36				SOD	iP	02 18 06.6						
		ePKKP	25 12					i	15.0						
		i	23.0				KEV	eP	02 18 09						
	OUL	iP	00 10 04.9												
		iPKP	14 06.6				1	KJN	eP	08 45 00					
		iPKKP	25 09.7					i	05.7						
		i	21.9					OUL	iP	08 45 07.6					
	SOD	ePKP	00 14 05					SOD	iP	08 45 08.7					
		e	26					KEV	eP	08 45 10					
		ePKKP	25 14					H:	08 35 22.1						
	KEV	eSKS	00 19 54						25.8 N, 91.8 E, 20 km (D)						
		eSP	23 00						India-East Pakistan border						
		H:	23 56 21.6												
			4.9 S, 154.2 E, 403 km (D)												
			Solomon Islands												
1	NUR	iP	00 34 07.2	0.7	17.6	1	KJN	eP	10 42 35						
		i	19.5												
	KJN	iP	00 33 56.0	1.0	18.5	1	NUR	iP	12 44 15.7	0.6	18.3				
		i	34 08.7					i	30.0						
	OUL	eP	00 33 56				KJN	iP	12 44 25.1	1.1	10.8				
	SOD	eP	00 33 53					iPP	46 04.0						
1	NUR	eP	01 11 28				OUL	iP	12 44 35.3						
	KJN	iP	01 11 06.0 D	0.5	10.3		SOD	iP	12 44 46.9						
	OUL	iP	01 11 04.9 D					i	45 07.0						
	SOD	iP	01 10 53.8				KEV	eP	12 45 01						
								e	15						
		H:	01 01 20.8					H:	12 36 30.2						
			44.0 N, 139.0 E, 192 km						26.7 N, 60.6 E, 50 km (G)						
			Eastern Sea of Japan						Southern Iran						
1	NUR	eP	02 00 24			1	NUR	eP	14 02 16						
	KJN	eP	02 00 03					eSKS	12 40						
1	NUR	iPKP	02 06 28.8	1.1	28.0			eS	13 24						
		i	30.5				KJN	iP	14 02 06.0	0.8	6.2				
	KJN	iPKP	02 06 17.3	0.9	7.1			i	25.3						
	OUL	ePKP	02 06 13				OUL	iP	14 02 08.4						
		H:	01 47 02.2					i	10.3						
			32.3 S, 178.2 W, 173 km				SOD	eP	14 02 05						
			South of Kermadec Islands				KEV	eP	14 02 02						
1	NUR	iP	02 09 09.8					eSKS	12 32						
	KJN	iP	02 08 52.8 D	0.6	5.5			eS	13 10						
	OUL	iP	02 08 53.0					ePS	14 18						
	SOD	iP	02 08 45.3					H:	13 49 06.8						
		H:	01 58 03.4						3.3 N, 126.6 E, 46 km (D)						
			27.5 N, 139.8 E, 482 km (D)						Talau Islands						
			Bonin Islands				1	NUR	ePPS	19 18 20					
								e	19 04						

cont.

June						June					
				T	A						
				T	A						
	KEV	eSS	23 14			2	NUR	iP	07 39 18.9	0.7	7.6
		eS	19 15 20					OUL	iP	07 38 47.6	
		ePS	16 48					SOD	ePcP	07 39 27	
		eSS	22 24					H:	07 28 48.2		
		H:	18 50 54.0						53.1 N, 172.6 E, depth N		
			8.7 N, 102.6 W, depth N						Near Islands		
			Off coast of Mexico								
1	NUR	iPKP	20 12 56.5			2	NUR	eP	08 32 16		
		ePKS	17 30					H:	08 21 46.1		
	KJN	iPKP	20 12 43.4	1.2	46.4				52.9 N, 171.5 E, depth N		
		i	54.1						Near Islands		
		ePP	16 22			2	NUR	iP	09 58 04.9		
	OUL	ePKP	20 12 43					i	08.6		
		i	45.6					ePP	10 00 20		
		ePP	16 24					ePPP	01 44		
	SOD	ePKP	20 12 39					eS	06 18		
		i	14 27.8					e	35		
		H:	19 53 12.4					eScS	08 00		
			31.7 S, 178.2 W, 17 km					eSS	10 20		
			Kermadec Islands				KJN	iP	09 57 41.0	0.7	7.5
1	NUR	eP	23 23 56					i	50.7		
		i	27 05.5				OUL	iP	09 57 32.6		
	KJN	iP	23 24 46.7					i	34.2		
		eS	28 22					ePcP	58 34		
	SOD	eP	23 25 16				SOD	iP	09 57 16.6		
		e	29 38				KEV	iP	09 56 59.8		
		H:	23 20 30.7					eS	10 04 16		
			47.1 N, 14.3 E, depth N					eScS	06 52		
			Austria					H:	09 47 59.4		
									59.5 N, 144.7 W, depth N		
									Gulf of Alaska		
2	NUR	eP	01 59 47			2	KJN	eP	10 06 28		
	KJN	eP	01 59 26								
	OUL	eP	01 59 27								
	SOD	eP	01 59 10								
		H:	01 49 03.7								
			41.3 N, 142.6 E, 79 km								
			Hokkaido, Japan								
2	NUR	iP	04 01 01.0			2	NUR	iP	18 00 02.7	0.5	14.2
		iS	03 51.0				KJN	iP	18 00 02.1 U	0.6	11.0
	KJN	eP	04 01 48				OUL	iP	18 00 10.8		
		eS	05 19				SOD	iP	18 00 18.2		
	SOD	eP	04 02 16				KEV	iP	18 00 26.6		
		H:	03 57 30.1					H:	17 53 04.5		
			47.0 N, 14.3 E, 29 km						36.3 N, 71.2 E, 228 km		
			Austria						Afghanistan-USSR border		
2	NUR	iP	04 10 52.0			2	NUR	eP	18 39 12		
	KJN	iP	04 10 40.7	1.1	13.5		KJN	iP	18 39 08.9	0.8	6.9
								e	15		
							OUL	iP	18 39 13.7		
								i	30.9		
							SOD	eP	18 39 14		
								H:	18 26 25.8		
									4.8 S, 102.7 E, 62 km		
									Southern Sumatra		



June				June			
		T	A		T	A	
4	KJN iP	19 49	47.7				
	OUL iP	19 49	47.4				
	SOD eP	19 49	39				
	H: 19 38 12.6						
	29.0 N, 142.4 E, depth N						
	South of Honshu, Japan						
4	NUR e	20 29	44				
	eS		39 40				
	KJN iP	20 29	25.3				
	OUL eP	20 29	23				
	i		36.8				
	SOD eP	20 29	24				
	H: 20 17 25.6						
	15.2 N, 122.3 E, 29 km						
	Philippine Islands						
4	NUR iP	20 46	15.0				
	KJN iP	20 46	28.1 U	1.3		23.9	
	OUL iP	20 46	24.0 U				
	SOD iP	20 46	29.5				
	KEV iP	20 46	34.3 U	0.7		12.9	
	H: 20 35 10.1						
	11.9 N, 43.8 W, depth N						
	North Atlantic Ridge						
5	KJN ePKP	00 41	54				
	H: 00 22 45.9						
	16.2 S, 172.9 W, depth N						
	Samoa Islands						
5	NUR iP	06 07	24.0	0.4		26.1	
	i		24.7				
	KJN iP	06 07	23.0	0.7		10.3	
	OUL iP	06 07	33.1				
	SOD iP	06 07	39.6				
	KEV eP	06 07	47				
	H: 06 00 28.5						
	36.7 N, 71.2 E, 232 km						
	Afghanistan-USSR border						
5	NUR e	10 57	42				
	KJN eP	10 57	30				
	i		39.0				
	e		57				
	OUL iP	10 57	38.0				
	i		44.1				
	SOD eP	10 57	38				
	i		46.4				
	KEV i	10 57	49.0				
	H: 10 45 43.5						
	4.9 N, 96.3 E, depth N						
	Northern Sumatra						
5	KJN eP	11 13	33				
	OUL eP	11 13	35				
	H: 10 59 59.1						
	7.1 S, 129.1 E, 156 km						
	Banda Sea						
5	KJN ePKP	16 06	42				
	H: 15 48 10.4						
	17.2 S, 176.9 W, 324 km						
	Fiji Islands						
5	NUR eSKS	17 43	48				
	KJN iP	17 33	17.0	1.1		13.5	
	iPP		37 02.4				
	OUL iP	17 33	19.3				
	SOD eP	17 33	18				
	H: 17 20 16.4						
	1.9 N, 127.4 E, 97 km						
	Halmahera						
5	NUR iP	20 51	03.2	1.3		23.3	
	eS	21 00	00				
	eSS		04 16				
	KJN iP	20 51	17.5 U	1.3		43.4	
	iPcP		41.2				
	OUL iP	20 51	15.4 U				
	i		22.1				
	SOD eP	20 51	19				
	i		30.1				
	KEV iP	20 51	25.8				
	eS	21 00	52				
	ePS		01 16				
	H: 20 39 58.9						
	10.7 N, 41.0 W, depth N						
	North Atlantic Ridge						
5	NUR eP	21 08	32				
	KJN iP	21 08	20.2				
	OUL eP	21 08	23				
	SOD eP	21 08	21				
	H: 20 55 34.4						
	6.3 N, 126.3 E, 42 km						
	Mindanao, P.I.						
5	NUR eP	22 22	12				
	KJN eP	22 22	17				
5	NUR eP	23 20	26	0.6		6.1	
	KJN eP	23 20	50				
	OUL iP	23 20	59.1				
	i		21 03.9				
	SOD eP	23 21	20				
	H: 23 15 33.7						
	41.1 N, 41.5 E, depth N						
	Turkey-USSR border						

June							June						
					T	A					T	A	
6	NUR	iP	00 19 16.0		0.9	8.2	6	OUL	iPKP	13 46 03.8			
	KJN	eP	00 19 31							H: 13 27 15.5			
										14.8 S, 167.9 E, 88 km			
										New Hebrides Islands			
6	NUR	iPKP	00 29 50.0 U		0.7	26.5	6	KJN	eP	16 28 56			
	KJN	iPKP	00 29 40.1		0.7	13.7		OUL	eP	16 28 49			
	OUL	iPKP	00 29 39.1							H: 16 16 01.7			
		i	42.4							12.5 N, 88.0 W, 48 km			
	SOD	iPKP	00 29 33.6							Central America			
			H: 00 10 05.2										
			35.2 S, 179.9 W, 29 km										
			East of North Island, N.Z.										
6	NUR	eP	04 13 58				6	NUR	eP	16 45 57			
		i	14 06.0										
		e	17 43										
	KJN	iP	04 13 32.0				6	NUR	eSKS	22 50 24			
	OUL	iP	04 13 17.4						e	51 16			
	SOD	iP	04 13 02.6						ePS	53 48			
			H: 04 10 09.5							H: 22 25 37.3			
			71.1 N, 5.5 W, 11 km							22.6 S, 68.4 W, 125 km (D)			
			Jan Mayen Island							Northern Chile			
6	NUR	iP	04 29 43.5 U		1.0	33.3	7	KEV	iPKP	04 22 34.3	0.8	18.7	
		i	50.3							H: 04 03 01.1			
		eS	38 16							61.4 S, 62.3 W, depth N			
	KJN	iP	04 29 19.2 U		0.9	16.1				Drake Passage			
		i	26.1				7	NUR	iPKP	05 43 57.4 U	1.0	51.0	
	OUL	iP	04 29 12.0 U						i	44 10.3			
		i	19.0					KJN	iPKP	05 43 47.3 U	1.0	39.2	
	SOD	iP	04 28 56.0 U						i	58.5			
	KEV	e	04 29 14					SOD	iPKP	05 43 40.7			
			H: 04 19 15.2						i	52.1			
			56.6 N, 152.5 W, 16 km							H: 05 24 11.0			
			Kodiak Island							35.4 S, 179.9 W, 46 km			
										East of North Island, N.Z.			
6	NUR	iPKP	05 47 39.3		0.8	12.7	7	NUR	eP	07 12 31	1.0	9.8	
	KJN	ePKP	05 47 27					KJN	eP	07 12 51			
			H: 05 27 56.7										
			32.1 S, 177.8 W, 19 km										
			South of Kermadec Islands										
6	KJN	iP	06 59 02.8		0.8	16.9	7	NUR	iP	14 08 57.3	0.9	36.1	
	OUL	eP	06 58 46					KJN	iP	14 08 48.0	0.8	27.7	
								OUL	iP	14 08 47.6			
								SOD	iP	14 08 41.4			
6	NUR	iP	07 09 59.6 U				7	NUR	iP	15 36 10.8			
	KJN	iP	07 09 36.2 U		0.5	14.7			i	19.5	1.0	27.4	
	OUL	iP	07 09 34.2 U						iS	40 19.0			
	SOD	eP	07 09 22					KJN	eP	15 36 51	0.8	13.1	
			H: 07 00 08.6						eS	41 33			
			46.1 N, 143.1 E, 326 km						e	42 10			
			Sakhalin Island					OUL	eP	15 36 51			
6	KJN	eP	08 31 21						i	37 00.9			
									i	05.7			
										cont.			

June			T	A	June			T	A		
SOD	eP	15 37 18			OUL	iP	06 19 06.0				
KEV	eS	15 42 44				i	15.4				
H: 15 31 12.4					SOD					iP	06 18 51.0
38.0 N, 20.1 E, 39 km					H: 06 09 01.6						
Greece					52.3 N, 173.3 E, 54 km						
					Near Islands						
7	NUR	eP	16 03 00			8	KJN	iP	12 23 12.0		
7	NUR	iP	20 10 56.5				SOD	iP	12 23 10.9		
	KJN	eP	20 11 12			H: 12 10 16.8					
7	NUR	iP	22 34 02.1	0.8	9.9	4.2 N, 128.3 E, 76 km					
					North of Halmahera						
7	NUR	iP	22 58 03.7 U	1.1	118.8	8	NUR	eP	14 31 00		
		iPcP	32.0				KJN	eP	14 30 59		
		ePS	23 07 20			e 31 52					
		eSS	11 32			8	NUR	iP	14 59 39.5 U	0.8	38.1
	KJN	iP	22 57 39.0 U	1.1	67.5			iPcP	15 00 22.0		
		iPcP	58 17.0			e 03 48					
	OUL	iP	22 57 32.8 U			eS 07 52					
		iPcP	58 14.1			e 12 20					
	SOD	iP	22 57 17.9			KJN	iP	14 59 13.0 U	0.8	36.1	
		iPcP	58 04.0			i 31.1					
	KEV	iP	22 57 01.2	1.0	26.0			iPcP	15 00 07.0		
		iPcP	54.5			i 42.3					
H: 22 47 15.4					e 03 14						
52.5 N, 169.1 W, 42 km					OUL					iP	14 59 09.6 U
Fox Islands											
8	NUR	eP	01 13 31					iPcP	15 00 05.4		
		e	45				SOD	iP	14 58 54.3 U		
8	NUR	eP	04 33 10					iPcP	59 57.3		
	OUL	eP	04 33 02				KEV	iP	14 58 38.9	0.7	23.2
8	KJN	iP	05 13 10.0			iPcP 59 49.8					
	OUL	eP	05 13 17			H: 14 49 31.6					
	SOD	eP	05 13 09			53.3 N, 159.7 E, 60 km (D)					
H: 05 01 43.2					Kamchatka						
19.7 N, 121.6 E, 102 km											
Philippine Islands											
8	NUR	eP	05 40 38			8	KJN	ePKP	15 11 18		
8	NUR	eP	05 58 29	1.0	11.8		SOD	ePKP	15 11 19		
	KJN	eP	05 58 17			H: 14 52 17.9					
8	NUR	iP	06 07 36.0	1.1	16.3	36.5 S, 73.6 W, 30 km (D)					
	KJN	eP	06 07 23			Central Chile					
8	NUR	iP	06 19 36.1 U	0.8	16.9	8	KJN	eP	15 19 24		
		i	21 42.1			8	NUR	eP	17 03 27		
	KJN	iP	06 19 10.0	0.8	4.6		KJN	eP	17 03 51		
cont.					H: 16 52 39.8						
					6.1 S, 30.8 E, depth N						
					Lake Tanganyika						
8	NUR	iP	18 35 52.0			8	NUR	iP	18 35 52.0		
	KJN	iP	18 35 31.4	1.0	7.6		KJN	iP	18 35 31.4		
					cont.						

June				June			
		T	A			T	A
	SOD eP	18 35	19		KJN eP	07 05	18
	H: 18 25	17.6			i		27.2
	41.3 N, 141.8 E,		135 km		OUL iP	07 05	19.0
	Hokkaido, Japan				SOD eP	07 05	14
8	NUR iPKP	21 58	49.2		KEV eSKS	07 15	48
	i		58.1		ePS		18 24
	iSKP	22 01	53.1		eSS		24 00
	KJN ePKP	21 58	39		H: 06 51	16.1	
	i		50.3	0.5	3.2 S, 142.9 E,		17 km
	epPKP	22 00	35		New Guinea		
	iSKP	01	43.4		9 NUR iP	07 11	26.3
	OUL ePKP	21 58	39		KJN iP	07 11	22.5
	i		49.0		OUL eP	07 11	33
	epPKP	22 00	36		Moscow:		
	iSKP	01	42.0		H: 07 04	34	
	SOD ePKP	21 58	35		39.7 N, 70.8 E		
	eSKP	22 01	31		Tien Shan		
	i		35.1		9 KJN iP	08 47	41.2
	KEV iSKP	22 01	29.9		OUL iP	08 47	44.1
	H: 21 40	13.4			SOD iP	08 47	39.6
	25.3 S, 179.6 W,		412 km		9 NUR iP	09 04	24.2
	South of Fiji Islands				KJN eP	09 04	12
9	NUR eP	00 39	19		H: 08 53	30.8	
	SOD eP	00 39	19		47.9 N, 114.3 W,		5 km
9	NUR eP	02 06	24		Montana		
	i		31.4		9 NUR eP	09 47	07
	KJN eP	02 06	10		e		15
	OUL eP	02 06	13		KJN iP	09 47	30.7
	SOD iP	02 06	08.8		i		36.5
	H: 01 55	00.4			OUL eP	09 47	37
	23.7 N, 120.9 E,		46 km		SOD eP	09 47	43
	Taiwan				i		49.3
9	NUR eP	02 33	31		KEV i	09 48	00.5
	i		34.1		H: 09 35	38.2	
	KJN iP	02 33	12.2	0.8	7.0 S, 12.7 W,		depth N
	OUL eP	02 33	12		Ascension Island		
	SOD iP	02 33	03.5 U		9 NUR iP	19 00	00.7
	KEV iP	02 32	55.4	1.2	KJN iP	18 59	50.3
	H: 02 21	57.7			OUL eP	18 59	57
	31.6 N, 139.8 E,		41 km		SOD eP	18 59	57
	South of Honshu, Japan				H: 18 52	26.3	
9	NUR eP	07 05	31		42.0 N, 84.6 E,		36 km
	eSKS		16 10		Northern Sinkiang, China		
	eS		17 26		9 NUR iPKP	19 58	00.5
	ePS		19 12		KJN iPKP	19 57	53.0
	ePPS		20 08				cont.
	e		23 30				
	eSS		25 05				
			cont.				

June				June			
		T	A		T	A	
	OUL	iPKP	19 57 53.0				
	H:		19 39 07.7				
			11.9 S, 165.7 E, 54 km				
			Santa Cruz Islands				
9	NUR	ePKP	22 12 22				
		i	30.0				
		i	14 14.0				
		ePP	15 28				
		ePKS	16 08				
		e	25 10				
		eSS	34 32				
	KJN	ePKP	22 12 14				
		i	22.6	0.8		13.1	
		i	14 02.5	0.5		13.2	
		i	06.2				
		ePKS	15 55				
	OUL	ePKP	22 12 15				
		i	21.3				
		e	14 05				
	SOD	iPKP	22 12 17.4				
		i	14 01.6				
	KEV	iPKP	22 12 14.5				
		ePP	14 28				
		ePKS	15 36				
		eSKKS	21 12				
		eSKSP	24 40				
		ePPS	26 40				
		eSS	32 44				
		e	34 28				
		eSSS	36 28				
	H:		21 53 01.8				
			23.5 S, 175.0 W, depth N				
			Tonga Islands				
9	KJN	eP	22 16 13				
	OUL	eP	22 16 14				
	SOD	eP	22 16 06				
9	NUR	iP	23 20 27.3 U	0.8		29.6	
	KJN	iP	23 20 03.3	0.9		14.3	
		e	29				
	OUL	iP	23 20 01.2				
	SOD	eP	23 19 49				
	KEV	iP	23 19 37.0	0.8		7.2	
	H:		23 09 43.6				
			44.0 N, 148.9 E, 50 km (D)				
			Kurile Islands				
9	KJN	eP	23 43 22				
	SOD	eP	23 43 25				
10	NUR	eP	03 54 06				
			cont.				
	KJN	eP	03 53 54				
	SOD	eP	03 53 39				
	H:		03 41 32.7				
			31.6 N, 116.2 W, 0 km				
			Baja California				
10	NUR	iP	09 55 57.1				
	KJN	iP	09 55 34.0	0.6		8.2	
	OUL	iP	09 55 32.6				
	SOD	iP	09 55 20.7				
	H:		09 45 19.0				
			43.2 N, 146.0 E, 103 km				
			Kurile Islands				
10	NUR	eSS	13 37 24				
	H:		13 04 02.4				
			2.5 N, 101.6 W, depth N				
			East Central Pacific Ocean				
10	NUR	iP	17 27 49.0				
		eS	38 24				
	KJN	eP	17 27 34	0.6		17.1	
		i	38.7				
	OUL	eP	17 27 40				
		i	46.7				
	SOD	eP	17 27 34				
		i	38.4				
	KEV	iP	17 27 35.0	0.7		11.6	
		eS	37 40				
		eSS	42 20				
	H:		17 15 29.4				
			13.2 N, 121.4 E, 37 km				
			Mindoro, P.I.				
10	NUR	iP	22 59 10.0				
		iS	23 04 44.9				
		e	05 54				
		e	07 10				
	KJN	iP	22 59 10.0 U	1.5		772.6	
		ipP	52.8				
		isP	23 00 16.5				
		i	07 07.7				
	OUL	iP	22 59 18.7 U				
		ipP	59.4				
		isP	23 00 23.9				
		i	41.0				
	SOD	iP	22 59 25.3 U				
		iPP	23 00 56.7				
	KEV	iP	22 59 35.2 U	0.9		122.6	
		i	23 00 26.1				
		iPP	01 10.5				
		esPP	02 08				
		eS	05 28				
			cont.				

June				June							
			T	A		T	A				
	esS	06 40			KJN	iP	01 14 44.1	1.0	16.4		
	eSS	08 24				i	15 08.0				
	H:	22 52 12.1			SOD	iP	01 14 20.3				
		36.4 N, 70.7 E, 203 km (D)				i	24.1				
		Hindu Kush			KEV	eP	01 14 04				
						e	26				
10	NUR	iP	23 37 49.0			H:	01 05 01.3				
		i	38 06.8				59.6 N, 144.8 W, 12 km				
		ipP	35.7				Gulf of Alaska				
		eS	43 22								
	KJN	iP	23 37 50.0	1.0	191.8	11	KJN	iPKP	03 55 24.2	0.7	4.1
		ipP	38 33.0				OUL	ePKP	03 55 24		
		isP	56.2				SOD	iPKP	03 55 28.6		
		iPcP	40 07.3				H:	03 36 22.0			
	OUL	iP	23 37 59.0					55.2 S, 30.2 W, 34 km			
		i	38 36.2					South Sandwich Islands			
		ipP	45.0								
		i	39 28.0			11	NUR	iP	05 00 32.5		
		iPcP	40 11.0				KJN	iP	05 00 30.4 D	0.8	25.4
	SOD	iP	23 38 06.5					e	01 37		
		ipP	49.3				OUL	iP	05 00 35.2		
		esP	39 13					i	57.1		
		iPP	36.4				SOD	iP	05 00 37.8 D		
	KEV	iP	23 38 15.0	0.9	129.4			i	45.9		
		epP	58				KEV	iP	05 00 40.2	0.7	16.8
		esP	39 20				H:	04 48 20.3			
		ePcP	40 13					1.1 N, 98.8 E, 53 km			
		eS	44 08					Northern Sumatra			
		eSS	47 16								
	H:	23 30 53.7				11	NUR	eP	07 02 11		
		36.3 N, 70.4 E, 213 km					KJN	iP	07 02 36.0		
		Hindu Kush					SOD	eP	07 02 49		
								e	56		
10	KJN	iP	23 38 15.0				H:	06 51 10.9			
								2.5 S, 12.2 W, depth N			
								North of Ascension Island			
11	NUR	iP	01 08 18.3								
		ePP	10 32								
		ePPP	12 04			11	NUR	eP	09 02 07		
		eS	16 28				KJN	eP	09 01 58		
		eScS	18 08				OUL	eP	09 01 54		
	KJN	iP	01 07 54.2 D	1.0	32.7		SOD	eP	09 01 48		
		i	08 06.4								
	SOD	iP	01 07 30.3 U			11	KJN	iP	12 30 06.2 U	0.6	7.5
		i	35.6				SOD	eP	12 30 04		
							KEV	eP	12 30 03		
	KEV	iP	01 07 12.2	1.0	26.0		H:	12 17 57.0			
		i	21.3					13.1 N, 121.0 E, 23 km			
		ePP	09 04					Mindoro, P.I.			
		eS	14 28								
	H:	00 58 10.1				11	NUR	iP	15 22 23.6 D	0.9	62.2
		59.6 N, 144.8 W, 5 km						iS	31 33.0		
		Gulf of Alaska					KJN	iP	15 22 06.3 D	1.1	81.0
							OUL	iP	15 22 06.8 D		
11	NUR	iP	01 15 08.0					i	12.9		
		i	13.0					cont.			
			cont.								

June			T	A	June			T	A		
SOD	iP	15 21 58.8 D			12	NUR	eP	09 59 44			
KEV	iP	15 21 51.9 D	1.1	66.6		KJN	eP	10 00 22			
H: 15 11 17.4											
27.4 N, 139.9 E, 500 km											
Bonin Islands											
12	NUR	iP	00 32 19.0	1.0	18.0	12	KJN	iP	12 35 18.0	0.8	7.7
							i	24.8			
12	NUR	iP	00 51 24.0	0.7	14.2		SOD	iP	12 35 17.7		
			36.0				H: 12 23 44.6				
	KJN	iP	00 51 14.1 U	0.8	19.2		19.3 N, 120.9 E, 49 km				
			26.0				Philippine Islands				
	OUL	iP	00 51 13.0			12	NUR	iP	13 04 38.3	0.9	11.8
			25.2				KJN	iP	13 04 28.0 U	0.8	16.1
	SOD	iP	00 51 08.1				OUL	eP	13 04 29		
			19.0				SOD	eP	13 04 26		
12	NUR	iP	02 21 30.2				KEV	eP	13 04 23		
							H: 12 51 57.7				
12	NUR	iP	04 27 00.8	0.7	12.9	12	KJN	eP	14 11 44		
	KJN	iP	04 26 42.1	0.8	7.7		SOD	eP	14 11 26		
	SOD	iP	04 26 34.1				H: 14 00 00.0				
	H: 04 16 09.8						37.0 N, 116.0 W, 0 km				
	32.2 N, 138.4 E, 374 km						Southern Nevada				
	South of Honshu, Japan										
12	NUR	iP	07 52 21.2 U	0.7	19.4	12	NUR	eSb	14 34 55		
			31.0				KJN	ePn	14 32 32		
		ePP	54 50					i	38.7		
			58.9					iSn	56.0		
		ePPP	56 24					i	33 00.3		
		eS	08 01 20				SOD	ePn	14 32 33		
		eSS	05 43					i	41.0		
	KJN	iP	07 51 59.4	1.0	39.2			eSn	58		
			08.0					e	33 00		
			22.0				KEV	iSb	14 34 03.7		
		ePP	54 17				Helsinki:				
	OUL	iP	07 51 58.3 U				H: 14 31 57				
			07.8				65.8 N, 30.3 E				
		iPcP	30.2				Northwest Russia				
	SOD	iP	07 51 47.7 U			12	NUR	iP	15 19 02.7	1.1	176.1
			57.1					i	03.6		
	KEV	iP	07 51 37.1					i	11.5		
			46.3					e	50		
			15.0					e	22 52		
		ePP	53 52					eS	23 26		
		ePPP	55 16					e	44		
		eS	59 56					e	24 44		
		eScS	08 01 16					iScS	29 56.1		
		e	03 12				KJN	iP	15 19 34.8 U	1.0	201.7
		eSS	56					i	36.0		
	H: 07 41 25.1							iPcP	22 41.5		
	40.3 N, 143.7 E, depth N							eS	24 25		
	Honshu, Japan							iScS	30 12.0		

cont.

June						June							
				T	A								
				T	A								
SOD	iP	15 20	03.8			OUL	iPKP	20 47	35.9				
	i		05.4			SOD	iPKP	20 47	40.7				
	i		34.7				e		55				
	iPP	21	18.5			KEV	ePKP	20 47	46				
	iPcP	22	49.6				eSKP	51	10				
	eS	25	12				e		32				
	e		48			H: 20 28 31.9							
	eSS	27	22			56.5 S, 25.3 W, 9 km							
KEV	iP	15 20	25.7 U	1.1	204.7	South Sandwich Islands							
	iPP	21	47.0			13	NUR	iP	01 28	45.0	0.8	11.5	
	e	22	20				KJN	iP	01 29	16.7	0.8	9.2	
	eS	25	52					iPP	30	10.1			
	e	26	24				OUL	iP	01 29	25.3			
	eSS	28	04				SOD	iP	01 29	46.5			
	eLR	15 30	5.5				KEV	eP	01 30	09			
H: 15 13 31.1						H: 01 23 13.8							
34.4 N, 25.1 E, 25 km (D)						34.3 N, 25.1 E, 38 km							
Crete						Crete							
12	NUR	iP	18 06	01.1									
	KJN	iP	18 06	33.1	0.8	11.5	13	NUR	iP	02 31	34.0		
	OUL	eP	18 06	41									
	SOD	eP	18 07	02			13	NUR	eP	07 34	59		
H: 18 00 29.6								KJN	eP	07 35	29		
34.2 N, 25.2 E, 56 km								OUL	iP	07 35	37.3		
Crete								SOD	eP	07 35	59		
12	NUR	iP	18 20	07.0	0.9	11.8	13	NUR	iP	08 58	52.8 U	0.8	34.6
	KJN	eP	18 20	25				i		57.2			
	OUL	eP	18 20	27				iPcP	59	30.5			
H: 18 10 16.7								ePPP	09 02	54			
8.2 N, 58.3 E, depth N								eS	07	20			
Carlsberg Ridge								ePPS		50			
		eScS	08	40				eSS	12	00			
12	NUR	iP	19 10	36.0	1.1	30.9		e	14	40			
	eS	20	05					eP'P'	27	50			
	eSS	24	48					eLR	09	17.5			
	KJN	iP	19 10	21.6	1.1	43.2		LZ			20	39.3u	
	i		42.4					LN			20	19.6u	
	OUL	iP	19 10	24.2				LE			22	13.0u	
	SOD	iP	19 10	19.4 D				KJN	iP	08 58	27.0 U	1.2	74.0
	KEV	iP	19 10	14.7	0.8	17.3		i	59	00.0			
	eS	19	24					iPcP		15.0			
	eSS	24	08					i	09 00	28.0			
H: 18 59 08.1								i	01	04.0			
24.0 N, 122.4 E, depth N								i	02	23.7			
Taiwan								i	03	39.0			
		eP'P'	27	46				eP'P'	27	46			
		e	28	04				e	28	04			
12	KJN	iP	19 34	27.0			OUL	iP	08 58	24.0 U			
	OUL	eP	19 34	29				e	09 03	42			
	SOD	eP	19 34	23				eP'P'	27	43			
								e	51				
12	KJN	iPKP	20 47	36.1	0.9	9.8	cont.						

June						June			
				T	A				
	SOD	iP	08 58 10.2 U				SOD	eP	20 23 42
		i	12.2				KEV	eP	20 23 33
		e	09 03 28						
		eS	06 04			13	NUR	eP	22 16 51
		eP'P'	27 57					e	17 03
	KEV	iP	08 57 57.0 U	1.2	42.8		KJN	eP	22 16 40
		i	58 04.1					e	53
		iPcP	58.0				OUL	eP	22 16 45
		iPP	09 00 08.4				SOD	iP	22 16 39.7
		ePPP	01 24					i	51.9
		eS	05 44				H: 22 03 47.8		
		e	06 12				3.9 N, 127.7 E, 94 km		
		e	10 28				Talaud Islands		
		eP'P'	28 03						
	H: 08 48 29.5					14	NUR	iP	00 33 59.5
	49.4 N, 155.5 E, 64 km (D)							i	34 04.0
	Kurile Islands						KJN	iP	00 33 35.5
								i	46.0
13	NUR	iP	13 54 19.7				OUL	iP	00 33 29.7
	KJN	eP	13 54 17				SOD	iP	00 33 14.5
	SOD	eP	13 53 42				KEV	iP	00 33 01.0
								eS	41 02
13	NUR	iP	15 33 09.1				H: 00 23 11.4		
	KJN	iP	15 32 46.3				51.3 N, 179.7 W, 38 km		
	SOD	iP	15 32 33.8				Andreanof Islands		
	H: 15 23 08.3								
	44.4 N, 140.4 E, 259 km					14	NUR	eP	01 04 55
	Eastern Sea of Japan						KJN	eP	01 05 26
13	NUR	eP	16 28 40	1.0	14.0		SOD	eP	01 05 56
	KJN	iP	16 28 26.0	1.2	37.8		H: 00 59 22.4		
	OUL	eP	16 28 28				34.2 N, 25.0 E, depth N		
	SOD	iP	16 28 25.4				Crete		
	KEV	eP	16 28 26						
13	SOD	eP	17 50 43			14	NUR	iP	03 37 46.8
							KJN	iP	03 37 36.9
13	KJN	eP	18 13 32					i	47.0
							OUL	eP	03 37 42
13	NUR	ePKP	18 52 47				SOD	iP	03 37 42.0
		eSKP	55 25					ePcP	38 51
	KJN	ePKP	18 52 40				KEV	iP	03 37 44.0
		eSKP	55 13				H: 03 28 29.6		
	OUL	ePKP	18 52 37				31.7 N, 94.6 E, depth N		
	H: 18 34 31.1						Tibet		
	20.7 S, 178.6 W, 600 km					14	NUR	iPKP	03 41 36.0 U
	Fiji Islands							ipPKP	52.6
13	NUR	eP	19 47 19					iPP	42 49.2
	KJN	eP	19 48 04					ePS	52 36
	SOD	eP	19 48 24					eSS	58 40
							KJN	iPKP	03 41 29.8
								ipPKP	47.0
13	NUR	eP	20 25 13					iPP	42 26.0
	KJN	eP	20 24 23				OUL	iPKP	03 41 29.5
								i	41.1
							cont.		

June						June					
				T	A						
				T	A						
		ipPKP	45.8			SOD	iP	13 54	01.3		
SOD	ePKP	03 41	25				e		59 47		
	e		39			KEV	iP	13 54	21.4	1.0	38.0
KEV	epFKP	03 41	41				e		55 20		
	ePP		42 00				H:	13 47	24.2		
	eSKS		48 00					34.3 N, 25.1 E, 9 km			
	ePS		51 40					Crete			
	ePPS		52 48			14	NUR	iP	13 58	45.6	
	eSS		57 20				OUL	eP	13 59	26	
	H:	03 22	56.8			14	NUR	eP	14 38	28	
		7.9 S, 159.0 E, 62 km (D)					KJN	iP	14 39	00.4	0.8
		Solomon Islands					OUL	eP	14 39	08	7.7
14	NUR	iP	03 52	35.3	0.9	15.1	SOD	iP	14 39	29.4	
	KJN	iP	03 52	25.7	U	0.8	30.8	H:	14 32	56.3	
		i		35.0				34.3 N, 25.1 E, 36 km			
	OUL	eP	03 52	28				Crete			
	SOD	iP	03 52	25.0							
	H:	03 39	45.4				14	NUR	iP	17 49	58.0
		7.1 N, 124.0 E, depth N						eS		54 08	0.7
		Mindanao, P.I.						KJN	iP	17 50	19.3
14	NUR	eP	05 59	42				i		21.0	0.8
	KJN	eP	06 00	24				iPP		51.2	23.1
14	NUR	eP	08 23	39				eS		54 40	
	KJN	eP	08 23	18				OUL	iP	17 50	31.9
	H:	08 12	29.7					SOD	iP	17 50	51.6
		35.9 N, 140.2 E, 57 km						KEV	eP	17 51	06
		Honshu, Japan						i		44.0	
14	KJN	iP	09 37	52.0				eS		56 04	
	OUL	iP	09 37	53.7				H:	17 45	01.8	
	H:	09 24	15.4					41.4 N, 43.2 E, 26 km			
		2.2 S, 137.8 E, 113 km						Turkey-USSR border			
		West New Guinea					14	NUR	iP	22 04	08.2
14	NUR	ipPKP	10 49	24.3	0.9	28.6		KJN	iP	22 03	50.0
		i		52 13.5				OUL	iP	22 03	50.1
	KJN	ipPKP	10 49	13.1	U	1.0		SOD	iP	22 03	41.2
		e		40				H:	21 52	26.7	
	OUL	ePKP	10 49	11				29.4 N, 141.4 E, 100 km			
	H:	10 30	32.4					South of Honshu, Japan			
		32.1 S, 179.4 E, 424 km					14	NUR	iP	22 33	59.8
		South of Kermadec Islands						KJN	eP	22 33	58
14	NUR	iP	13 52	59.0				OUL	eP	22 33	58
		i		54 20.0				SOD	eP	22 33	59
		eS		57 36				KEV	eP	22 34	04
	KJN	iP	13 53	31.9	0.9	50.0	14	NUR	eP	23 58	22
		iPP		54 31.8			15	NUR	eSKS	03 58	30
	OUL	iP	13 53	39.3	U			KEV	eSKS	03 58	07
		ePP		54 37				H:	03 34	58.7	
				cont.				15.9 N, 95.5 W, 57 km			
								Oaxaca, Mexico			

June						June			
				T	A				
15	NUR	iP	06 04 15.0			OUL	iP	15 59 34.7	
	KJN	iP	06 04 46.3	0.9	11.6	SOD	eP	15 59 26	
	SOD	iP	06 05 16.3				e	33	
	KEV	eP	06 05 40			H:	15 45 53.3		
	H: 05 58 41.8					4.9 S, 125.7 E, 38 km			
	34.3 N, 25.2 E, 24 km					Banda Sea			
	Crete								
15	NUR	iP	17 09 20.0 U	1.0	72.0	16	NUR	iP	16 11 22.0
		ipP	33.5					i	25.0
		iPP	12 46.0					iS	15 28.4
		eS	20 00			KJN	iP	16 11 57.6	
	KJN	iP	17 09 17.7 U	0.9	63.4			e	12 03
		ipP	30.7					e	16 45
		ePP	12 50			OUL	eP	16 12 07	
		eS	19 53			SOD	eP	16 12 26	
		e	20 10			H:	16 06 25.5		
	SOD	iP	17 09 23.4 U			38.2 N, 20.1 E, 42 km			
		ipP	37.1			Greece			
	KEV	iP	17 09 25.5 U	1.0	42.0	17	NUR	iPKP	01 07 37.0 U
		ipP	39.4					i	39.8
		e	12 41			KJN	ePKP	01 07 25	
		eS	20 12			H:	00 47 59.0		
	H: 16 56 32.0					30.8 S, 178.0 W, 27 km			
	4.7 S, 102.2 E, 38 km (D)					Kermadec Islands			
	Southern Sumatra								
15	NUR	eP	22 05 45			17	NUR	eP	03 28 51
	KJN	eP	22 05 20				KJN	eP	03 29 23
	OUL	eP	22 05 18			17	NUR	eP	05 23 42
	SOD	e	22 05 05					eS	27 48
	H: 21 55 39.2					KJN	eP	05 24 21	
	59.5 N, 145.2 W, 32 km							i	29.5
	Gulf of Alaska					SOD	eP	05 24 45	
						H:	05 18 46.5		
16	NUR	eP	04 58 26			38.5 N, 20.2 E, depth N			
	KJN	eP	04 59 04			Greece			
16	NUR	iP	07 54 57.3			17	NUR	eP	05 44 29
	KJN	eP	07 55 43				KJN	eP	05 44 36
		e	48				SOD	eP	05 44 29
	OUL	eP	07 55 50			H:	05 32 57.2		
16	NUR	eP	15 20 23			19.0 N, 66.5 W, 54 km			
	KJN	e	15 21 12			Puerto Rico			
	BCIS:					17	SOD	eP	07 18 46
	H: 15 15 26					17	NUR	iP	19 38 54.2
	38.0 N, 20.3 E							ipP	39 43.6
	Ionian Sea							ePP	42 24
16	NUR	e	15 59 41					ePP	43 00
	KJN	iP	15 59 27.1	0.7	4.8			iSKS	48 55.5
		i	32.0					iS	49 10.0
			cont.						cont.

June			T	A	June			T	A		
KJN	epS	50 08			18	NUR	ePKP ²	00 18 02			
	ePS	48				iPKP ²		45.1			
	e	54 12				e	31 04				
	iPKKP	56 40.6				eSKSP	32 20				
	iP	19 38 38.0 U				eSS	41 40				
	i	43.0				KJN	ePKP	00 18 03			
	ipP	39 27.9				i	06.0				
	iSKS	48 35.2				OUL	ePKP	00 18 04			
	esS	50 12				e	27				
	iPKKP	56 48.6				SOD	ePKP	00 17 56			
OUL	eSKPP'	20 07 52			i	18 05.4					
	iP	19 38 38.3 U			ePP	22 08					
	ipP	39 29.9			e	48					
	i	43 50.3			KEV	ePKP	00 17 56				
	eSKS	48 35			i	18 03.0					
	iPKKP	56 48.1			i	11.0					
	SOD	iP	19 38 31.1 U			i	25.0				
	ipP	39 21.1			e	38 26					
	eSKS	48 26			eSS	41 14					
	epS	49 26			eSSS	47 00					
SOD	iPKKP	56 50.3			H: 23 58 10.1						
	eSKPP'	20 07 58			52.6 S, 159.7 E, depth N						
	KEV	iP	19 38 24.1	0.7	232.2	Macquarie Islands					
	ipP	39 16.0			18	NUR	iP	00 41 26.5	0.8	7.2	
	e	42 08				KJN	iP	00 41 05.3	0.7	8.2	
	e	44 16				OUL	iP	00 41 03.9			
	iS	48 15.2				H: 00 30 42.8					
	epS	49 05				40.9 N, 139.3 E, 30 km					
	e	40				Honshu, Japan					
	iPKKP	56 55.0				18	NUR	eP	01 48 51	1.1	52.4
H: 19 26 28.9							i	53.2			
19.0 N, 145.5 E, 206 km (D)							KJN	iP	01 48 29.7		
Mariana Islands							OUL	iP	01 48 20.6		
17	NUR	iP	23 29 29.8	0.7	122.6		i	29.3			
	eS	33 12			SOD		eP	01 48 03			
	KJN	iP	23 29 49.4	0.7	157.6		KEV	iP	01 47 48.0	1.0	18.0
	i	51.8			i		55.5				
	iS	34 03.7			H: 01 38 46.4						
	iSS	46.0			59.5 N, 145.0 W, depth N						
	OUL	iP	23 30 01.3			Gulf of Alaska					
	e	34 56			18	NUR	eP	02 18 31			
	SOD	iP	23 30 17.9								
	i	30.7				18	NUR	eP	02 32 47		
eS	34 52			KJN			iP	02 33 28.4	0.8	10.0	
KEV	iP	23 30 37.8					OUL	iP	02 33 28.6		
i	45.0						SOD	eP	02 33 21		
i	58.0			18			NUR	eP	03 07 59		
eS	35 22						KJN	eP	03 07 36		
e	54						OUL	eP	03 07 32		
H: 23 24 41.7								H: 02 57 48.1			
43.2 N, 45.3 E, 6 km							59.5 N, 145.2 W, depth N				
Eastern Caucasus							Gulf of Alaska				
18	NUR	eP	00 01 46								



June						June					
				T	A						
				T	A						
		iPKS	58 19.8			19	NUR	iP	21 44 08.0 D	0.9	42.0
OUL		iPKP	13 54 50.8					eS	52 58		
		i	53.7				KJN	iP	21 43 43.2		
		iSKP	57 29.7				OUL	iP	21 43 37.0 D		
SOD		ePKP	13 54 47				SOD	iP	21 43 22.1		
		i	50.1				KEV	iP	21 43 05.1	0.8	15.8
		ePP	57 16				H:	21 33 16.6			
KEV		iPKP	13 54 46.0 U	1.0	36.0			52.7 N, 167.8 W, 14 km			
		H:	13 36 45.9					Fox Islands			
			18.0 S, 178.3 W, 545 km (G)								
			Fiji Islands								
19	NUR	eP	15 30 26			20	KJN	eSg	00 01 38		
19	NUR	eP	17 35 55				OUL	ePg	00 00 12		
	SOD	iP	17 36 30.7					e	49		
19	NUR	iP	18 25 50.1					iSg	01 00.1		
	KJN	eP	18 25 52				SOD	eSn	00 00 23		
	OUL	eP	18 25 58					eSg	34		
	H:	18 18 59.8					KEV	e	00 00 49		
		38.5 N, 71.0 E, 117 km						Uppsala:			
		Afghanistan-USSR border						H:	23 59 09		
19	NUR	iP	19 06 57.8 U	0.8	21.6			67.5 N, 19.8 E			
		iPcP	07 40.1					Swedish Lapland			
	KJN	iP	19 06 31.0			20	NUR	iP	02 48 37.4 D	1.4	159.9
		iPcP	07 23.0					ipP	50.0		
	OUL	iP	19 06 27.3 U					iPcP	49 07.5		
		iPcP	07 22.8					iS	57 26.0		
	SOD	iP	19 06 12.6					eScS	58 28		
		iPcP	07 15.0					eSS	03 02 00		
	KEV	iP	19 05 57.4					eP'P'	17 07		
		iPcP	07 07.0				KJN	iP	02 48 13.2		
	H:	18 56 46.9						ipP	26.0		
		53.3 N, 159.9 E, 41 km						iPP	50 38.8		
		Kamchatka						eS	56 42		
19	NUR	iP	20 35 41.4 U	0.6	20.0			ePS	54		
		iPcP	36 13.0					eP'P'	03 17 11		
	KJN	iP	20 35 17.0				OUL	iP	02 48 06.9 D		
		e	46					ipP	18.7		
	OUL	iP	20 35 10.4 U					eS	56 29		
	SOD	iP	20 34 54.8					eP'P'	03 17 16		
		e	35 13				SOD	iP	02 47 51.9 D		
	KEV	iP	20 34 37.6	0.9	20.2			ipP	48 04.1		
		e	35 08					eS	56 01		
	H:	20 24 59.6						eP'P'	03 17 03		
		54.2 N, 164.0 W, 25 km					KEV	iP	02 47 34.7 D	1.1	171.4
		Unimak Island						i	38.0		
19	NUR	eP	20 38 22	0.9	10.1			ipP	47.0		
	KJN	iP	20 38 20.2					i	48 06.2		
	OUL	eP	20 38 18					ePP	49 52		
	SOD	iP	20 38 27.6					eS	55 28		
								e	56		
								eSS	59 40		
								H:	02 37 51.5		
								53.2 N, 162.4 W, 44 km (D)			
								South of Alaska			

June				June			
			T	A		T	A
20	NUR	eP	03 11 48			KEV	iP 15 47 52.3 U 0.7 62.0
	OUL	iP	03 11 46.7				isP 48 12.7
	SOD	iP	03 11 47.0				iPcP 37.4
	H: 03 00 23.5						ePP 50 00
	20.0 N, 64.2 W, depth N						eS 56 08
	North Atlantic Ocean						H: 15 37 50.2
20	NUR	iP	06 52 02.0	1.0	68.0		40.8 N, 142.1 E, 67 km (D)
		ipP	22.1				Honshu, Japan
		eS	07 01 00			20	NUR eP 16 32 18
		eScS	48				KJN iP 16 31 55.0
		eSS	05 12				OUL eP 16 31 48
	KJN	iP	06 51 41.0				SOD eP 16 31 29
		epP	52 01				KEV eP 16 31 16
		ePP	54 03			20	NUR eP 17 32 28
		iS	07 00 19.3				KJN iP 17 32 21.5
	OUL	eP	06 51 40				SOD iP 17 32 29.3
		i	45.9			20	NUR eP 17 34 30
		ipP	52 00.1				KJN eP 17 34 46
		ePP	53 56				OUL eP 17 34 58
	SOD	iP	06 51 30.0 U				SOD eP 17 35 12
		ipP	50.7			20	KJN iP 17 52 03.2
		ePP	53 52				OUL eP 17 51 59
	KEV	iP	06 51 19.8	0.7	23.8		SOD eP 17 51 58
		ipP	40.9				H: 17 40 36.3
		eS	59 40				19.9 N, 64.4 W, 51 km
		eSS	07 03 36				Virgin Islands
	H: 06 41 06.2						
	38.6 N, 141.8 E, 86 km (D)						
	Honshu, Japan						
20	SOD	eP	06 57 01			20	NUR eP 18 52 43
	H: 06 44 00.7						i 53 06.5
	2.6 N, 128.5 E, 77 km						KJN eP 18 52 46
	Halmahera					20	KJN eP 19 31 08
20	NUR	iP	15 48 36.0 U	0.8	83.5	20	NUR iPcP 21 12 31.2
		i	45.0				i 38.2
		ipP	51.5				KJN ePKP 21 12 23
		isP	56.0				OUL iPcP 21 12 22.0
		ePP	51 01				i 36.9
		eS	57 24				SOD ePKP 21 12 18
		eSS	16 01 36				H: 20 52 47.6
	KJN	iP	15 48 14.2 U	0.8	194.6		38.0 S, 177.4 E, 40 km
		ipP	30.1				North Island, N.Z.
		isP	35.0			20	NUR iP 21 30 31.8
		iPP	50 33.8				KJN iP 21 30 11.2
		eS	56 43				SOD eP 21 30 01
	OUL	iP	15 48 13.5 U				H: 21 19 27.2
		isP	33.3				37.0 N, 141.2 E, 73 km
		ePP	50 31				Honshu, Japan
	SOD	iP	15 48 02.4 U				
		ipP	17.1				
		iPcP	44.2				
	cont.						

June				June			
				T	A		
20	NUR	eP	21 55 25				
		i	27.6				
	KJN	iP	21 56 03.5				
20	KJN	eP	22 25 44				
21	NUR	eP	04 35 22				
	KJN	eP	04 35 14	0.8	6.2		
	SOD	eP	04 35 11				
	H: 04 22 20.8						
	5.0 N, 127.8 E, 77 km						
	Philippine Islands						
21	KJN	eP	05 43 31				
		eS	46 08				
	OUL	eP	05 43 15				
		eS	45 39				
		e	46 17				
	SOD	eP	05 42 43				
	Uppsala:						
	Jan Mayen						
21	NUR	iP	06 49 13.3 U	0.8	41.8		
		epP	30				
	KJN	iP	06 49 02.6 U	0.9	120.6		
		i	16.2				
		e	51 45				
		ePP	52 17				
	OUL	iP	06 49 04.6 U				
	SOD	iP	06 49 01.4				
		ipP	20.1				
	KEV	iP	06 48 58.0 U	1.0	48.0		
		eScS	57 32				
		e	07 03 00				
	H: 06 36 43.1						
	11.3 N, 125.3 E, 73 km						
	Samar, P.I.						
21	NUR	eP	07 02 15				
	KJN	iP	07 02 08.7				
		i	26.0				
	OUL	eP	07 02 15				
	SOD	iP	07 02 15.7				
		i	32.0				
	KEV	eP	07 02 23				
		i	36.3				
21	NUR	iP	07 59 49.0	1.2	51.3		
	KJN	iP	07 59 32.2				
		i	37.5				
	OUL	eP	07 59 37				
		i	40.3				
	SOD	iP	07 59 31.4				
		i	36.6				
	cont.						
	KEV	iP	07 59 29.5			0.8	14.4
		i	33.9				
	H: 07 47 24.4						
	13.3 N, 122.8 E, 23 km						
	Luzon, P.I.						
21	SOD	iP	14 11 14.1				
21	NUR	iP	15 24 22.0 U			1.0	112.0
		epP	26 22				
		ePP	28 14				
		eS	34 30				
		eSP	35 44				
		e	37 44				
		esPS	39 16				
		ePKKP	41 33				
	KJN	iP	15 24 15.8			1.2	299.3
		i	17.5				
		ipP	26 20.1				
		ePP	28 06				
		eSKS	34 12				
		eS	24				
	OUL	iP	15 24 19.7				
		i	21.0				
		ipP	26 23.4				
	SOD	iP	15 24 21.1 U				
		ipP	26 24.0				
	KEV	iP	15 24 22.0 U				
		ePP	28 20				
		eS	34 32				
		eSP	35 56				
		e	37 52				
		esPS	39 24				
		esSS	44 16				
	H: 15 12 10.0						
	5.5 S, 109.6 E, 561 km (D)						
	Java Sea						
21	NUR	eP	15 44 57				
	KJN	iP	15 45 28.9				
	OUL	eP	15 45 42				
	SOD	eP	15 46 02				
21	NUR	eP	16 22 40				
	KJN	iP	16 23 18.5				
	OUL	eP	16 23 26				
21	NUR	iP	16 42 37.0			0.7	24.5
		eS	48 36				
	KJN	iP	16 42 49.0			1.0	19.6
		ePP	44 25				
		ePPP	45				
		ePcS	48 30				
		eS	56				
	cont.						



June						June					
				T	A			T	A		
OUL	iP	16 42	58.5 U			eS	49 12				
	eS	49 23				eSS	52 36				
SOD	iP	16 43	12.2 U			e	53 08				
	e	45 06				H: 01 33	24.1				
KEV	iP	16 43	25.9 U	1.0	84.0	30.6 N, 79.4 E, 19 km Tibet-India border					
	i	48.1									
	eS	50 04									
H: 16 35 08.3						22	NUR	iP	02 44 26.0 D	0.9	55.4
27.4 N, 57.5 E, 65 km								ePP	46 44		
Southern Iran								ePPP	48 22		
21	NUR	e	17 17 31					eS	53 04		
	KJN	iP	17 17 12.0					eSS	57 08		
	OUL	eP	17 17 15			KJN	iP	02 44 01.4 D			
	SOD	iP	17 17 11.6				iPcP	46.4			
	KEV	eP	17 17 12				iPP	46 20.6			
H: 17 05 17.4							eS	52 18			
14.9 N, 119.6 E, 33 km						OUL	iP	02 43 57.9 D			
Luzon, P.I.						SOD	iP	02 43 45.1 D			
							eS	51 46			
21	NUR	eP	17 41 01			KEV	iP	02 43 30.5 D	1.2	57.0	
	KJN	iP	17 40 55.0				e	44 19			
	OUL	eP	17 41 03				ePPP	47 00			
	SOD	eP	17 41 05				eS	51 16			
	KEV	eP	17 41 11				e	56 00			
H: 17 32 56.6						H: 02 33 52.8					
35.6 N, 81.9 E, depth N						49.2 N, 158.5 E, depth N					
Southern Sinkiang, China						Kurile Islands					
21	KJN	eP	22 44 52			22	KJN	eP	05 13 28	1.0	8.7
	OUL	eP	22 44 46				OUL	eP	05 13 18		
H: 22 33 24.7						H: 05 07 08.8					
19.8 N, 64.4 W, 50 km						55.6 N, 35.2 W, depth N					
Virgin Islands						North Atlantic Ocean					
21	KJN	iP	23 36 53.0	0.7	3.4	22	KJN	eP	05 24 43		
	e	37 02					OUL	iP	05 24 33.8		
	OUL	eP	23 36 51			H: 05 13 39.6					
	SOD	eP	23 36 53			51.6 N, 173.1 E, depth N					
	KEV	eP	23 36 50			Near Islands					
22	NUR	iP	01 41 53.1	0.7	42.6	22	NUR	iPKP	06 32 05.5	0.9	40.3
	eS	48 40					i	18.0			
	eSS	51 46					KJN	iPKP	06 31 54.2 U	1.0	27.3
	KJN	iP	01 41 50.6 U	0.9	38.4		i	32 06.3			
	i	42 00.1					OUL	ePKP	06 31 52		
	eS	48 37				H: 06 12 24.0					
	OUL	iP	01 41 58.0 U			32.0 S, 177.9 W, depth N					
	i	42 07.7				South of Kermadec Islands					
	ePP	43 47			22	NUR	eP	08 03 20			
	SOD	iP	01 42 03.4				KJN	eP	08 02 54		
	i	14.2					OUL	eP	08 02 47		
	KEV	iP	01 42 10.3	0.8	25.9		SOD	iP	08 02 31.3		
	i	20.0				H: 07 53 28.5					
		cont.				61.7 N, 141.4 W, depth N					
						Southern Alaska					

June				T	A	June				T	A
22	NUR	iP	10 31 48.8	0.7	9.0	KJN	iP	14 42 42.3 U	0.9	17.9	
	KJN	iP	10 31 24.2	0.7	5.5		ipP	43 19.7			
	OUL	iP	10 31 17.2			OUL	iP	14 42 35.9 U			
	KEV	eP	10 31 19				ipP	43 12.4			
22	NUR	iP	10 56 09.5			SOD	iP	14 42 31.7			
		i	26.5				epP	43 08			
		e	58 26			KEV	iP	14 42 26.4			
	ePPP	11 00 32					eSKS	52 36			
	eS	04 52					e	53 24			
	e	05 08					H:	14 30 10.7			
	eSS	09 20						16.9 N, 93.6 W, 151 km			
	eP'P'	24 37						Chiapas, Mexico			
	LZ			20	4.6u	22	NUR	iP	16 09 02.0	0.7	19.4
	LN			20	2.9u		KJN	iP	16 08 37.7 U	0.6	10.3
	LE			20	1.1u		OUL	iP	16 08 32.3 U		
KJN	iP	10 55 44.3 U					SOD	iP	16 08 17.3		
	i	56 02.8					KEV	eP	16 08 01		
	iPcP	23.5						H:	15 58 17.9		
	iFP	58 09.3							51.6 N, 180.0 W, 57 km		
	iS	11 04 12.0							Andreanof Islands		
	eScS	05 31				22	KJN	iP	18 52 27.8		
	eP'P'	24 38						epP	55		
	i	49.8					SOD	eP	18 52 21		
OUL	iP	10 55 38.9 U					KEV	eP	18 52 16		
	i	57.6						H:	18 40 09.5		
	eP'P'	11 24 43							19.0 N, 145.5 E, 134 km		
SOD	iP	10 55 24.7							Mariana Islands		
	ePS	11 03 48				23	KJN	eP	00 05 03		
	eP'P'	24 47					OUL	eP	00 04 53		
KEV	iP	10 55 08.6 U	1.1	285.6				H:	23 58 43.3		
	i	24.3							55.6 N, 35.2 W, depth N		
	i	52.4							North Atlantic Ocean		
	ePP	57 20				23	NUR	ePKP	00 37 44		
	ePPP	58 42						ePP	41 44		
	eS	11 03 00					KJN	iPKP	00 37 50.6 U	0.8	10.8
	ePPS	32						e	57		
	e	06 36						e	43 16		
	eSS	07 00					OUL	iPKP	00 37 51.9 U		
	e	09 40						e	43 25		
	eP'P'	24 56					SOD	iPKP	00 37 50.2		
	H:	10 45 24.5					KEV	ePKP	00 37 40		
		51.5 N, 179.9 W, 56 km						i	48.0 U	0.8	28.8
		Andreanof Islands						e	39 04		
22	SOD	ePKP	11 06 57					ePP	41 24		
		H:	10 47 52.2					eSKSP	51 40		
			55.3 S, 29.4 W, 36 km					eSS	01 00 36		
			South Sandwich Islands					H:	00 17 56.5		
22	NUR	iP	14 42 46.6 U	0.8	15.8				49.3 S, 164.2 E, 27 km		
		ipP	43 23.1						Auckland Islands		
		eSKS	53 00								

cont.

June						June			
			T	A				T	A
23	KJN eP	01 32 41							
	SOD eP	01 32 21							
	H: 01 21 16.5								
	41.8 N, 125.8 W, depth N								
	Northern California								
23	KJN iP	01 48 41.0	0.8	4.6					
	OUL eP	01 48 26							
	SOD iP	01 47 58.7							
	KEV iP	01 47 29.4							
	e	49 25							
23	NUR eP	02 06 16							
	KJN iP	02 06 13.9	0.9	7.1					
	e	07 25							
	SOD eP	02 06 28							
	KEV eP	02 06 37							
	Moscow:								
	H: 01 59 14								
	38.2 N, 72.9 E, 140 km								
	Pamir								
23	KJN eP	03 24 57							
	SOD eP	03 24 49							
	H: 03 13 29.3								
	30.5 N, 142.1 E, 19 km								
	South of Honshu, Japan								
23	NUR iP	06 08 14.0	0.9	25.2					
	ipP	22.2							
	isP	26.0							
	KJN iP	06 07 53.1 U	0.6	41.1					
	isP	08 05.3							
	OUL iP	06 07 53.3 U							
	isP	08 05.1							
	SOD iP	06 07 42.3 U							
	isP	50.6							
	KEV iP	06 07 32.5 U	0.8	24.5					
	H: 05 57 06.9								
	37.4 N, 141.5 E, depth N								
	Honshu, Japan								
23	KJN eP	07 04 23							
23	NUR eP	07 21 30							
	i	34.0	1.3	58.0					
	ePP	25 15							
	eSKS	32 04							
	eSS	38 30							
	KJN eP	07 21 24	0.9	11.6					
	i	27.2							
	e	24 42							
	cont.								
	OUL iP	07 21 18.0							
	i	21.0							
	e	23 42							
	ePP	24 45							
	SOD iP	07 21 11.4							
	ePP	24 35							
	KEV eP	07 21 04							
	i	11.0							
	e	24 08							
	eSKS	31 28							
	eScS	40							
	eSS	36 44							
	H: 07 08 27.7								
	18.4 N, 104.5 W, 36 km								
	Jalisco, Mexico								
23	NUR iP	08 05 52.6							
	KJN iP	08 06 14.0	0.8	6.2					
	SOD eP	08 06 25							
	KEV eP	08 06 35							
	H: 07 54 46.4								
	0.9 S, 17.5 W, depth N								
	North of Ascension Island								
23	NUR iP	11 18 23.1	0.8	8.6					
	KJN iP	11 18 11.9 D	0.6	17.8					
	OUL iP	11 18 15.0							
	SOD iP	11 18 10.9 D							
	KEV iP	11 18 08.7							
	H: 11 06 37.8								
	15.7 N, 120.7 E, 198 km								
	Luzon, P.I.								
23	NUR iP	18 07 42.0							
	KJN eP	18 07 21							
23	KJN eP	22 31 48	0.9	6.3					
24	NUR eP	00 47 51							
	iPP	51 28.8							
	KJN eP	00 47 51							
	ePP	51 27							
	SOD eP	00 47 43							
	KEV eP	00 47 42							
	ePP	51 05							
	eSKS	58 12							
	e	58							
	eSS	01 04 28							
	H: 00 35 05.5								
	11.7 N, 85.7 W, 100 km (G)								
	Nicaragua								
24	KJN iP	01 30 47.5	0.7	4.8					
	cont.								

June				T	A	June				T	A	
	SOD	iP	01 30 35.7			24	NUR	iP	19 32 47.5	0.9	11.8	
	H: 01 20 06.5						25	NUR	iP	00 21 03.3	1.2	28.5
	39.2 N, 143.0 E, 21 km							ipP	14.1			
	Honshu, Japan							eS	31 10			
24	NUR	iP	01 32 06.6	0.7	19.4		KJN	iP	00 20 55.1	0.8	36.1	
	KJN	iP	01 31 47.8 D	0.6	11.6			ipP	21 05.9			
	SOD	iP	01 31 39.8				SOD	iP	00 20 55.2			
	KEV	iP	01 31 32.2	1.0	14.0			ipP	21 05.2			
	H: 01 21 12.1						KEV	iP	00 20 52.3			
	31.3 N, 138.3 E, 387 km							i	21 02.8			
	South of Honshu, Japan							eS	30 48			
								H: 00 08 55.3				
								13.5 N, 120.3 E, 53 km				
								Mindoro, P.I.				
24	NUR	eS	03 55 44			25	KJN	eP	02 58 41			
		ipKKP	58 39.7					e	03 01 09			
	KJN	iP	03 43 23.7				OUL	eP	02 58 24			
		ePKP	47 29					e	03 00 44			
		ePP	53				SOD	eP	02 58 05			
		ipKKP	58 48.6					e	03 00 24			
	SOD	iP	03 43 18.7			25	NUR	eP	04 49 53			
		ePP	47 41					i	58.3			
		ePKKP	58 49				KJN	iP	04 49 49.5	0.7	6.2	
	KEV	iP	03 43 13.6				OUL	iP	04 49 57.1			
		ePP	47 36				SOD	eP	04 50 00			
		eS	54 52				KEV	eP	04 50 04			
		ePS	56 42				H: 04 42 40.6					
		ipKKP	58 53.0				41.4 N, 79.4 E, 35 km					
		eSS	04 02 28				Kirgiz-Sinkiang border					
		eSSS	06 14									
	H: 03 29 17.3						25	NUR	eP	06 17 04	1.0	18.0
	5.8 S, 146.8 E, 113 km							KJN	eP	06 17 41		
	East New Guinea							OUL	eP	06 17 49		
								SOD	eP	06 18 10		
24	NUR	eP	11 10 31					H: 06 11 50.8				
	KJN	eP	11 10 16					35.9 N, 27.5 E, 38 km				
		i	20.0					Dodecanese Islands				
		eS	20 20				25	NUR	eP	07 36 39	1.2	28.5
	OUL	eP	11 10 22					eS	46 24			
	SOD	eP	11 10 13					ePS	47 16			
		i	19.5					eSS	51 16			
	KEV	iP	11 10 12.6					e	52 25			
		i	16.0					KJN	eP	07 36 38		
		eS	20 12						i	37 16.2		
		eSS	25 08					OUL	eP	07 36 44		
	H: 10 58 07.3							SOD	iP	07 36 46.2		
	13.3 N, 123.0 E, 42 km							KEV	eP	07 36 53		
	Luzon, P.I.								i	37 48.1		
									eS	46 44		
24	NUR	eP	13 29 26					H: 07 24 49.4				
	KJN	eP	13 30 08					4.5 N, 96.7 E, depth N				
	H: 13 25 20.3							Northern Sumatra				
	44.9 N, 10.2 E, 45 km											
	Northern Italy											
24	NUR	iP	17 21 56.1	0.7	10.3							

June				June			
		T	A			T	A
	SOD ePKP	08 00	12				
	i		02 46.7				
	KEV iPKP	08 00	08.4				
	H:	07 41	22.2				
	14.7 S, 167.7 E, 39 km						
	New Hebrides Islands						
27	NUR eP	08 07	49				
	i		52.8				
	KJN iP	08 07	37.8	0.7	4.1		
	OUL eP	08 07	41				
	KEV iP	08 07	34.0				
	H:	07 54	41.1				
	4.4 N, 126.7 E, depth N						
	Talaud Islands						
27	KJN iP	09 13	32.3	1.2	17.2		
	i		38.1				
	H:	09 00	32.7				
	21.0 S, 11.6 W, depth N						
	South Atlantic Ridge						
27	NUR eP	12 24	26				
27	NUR iP	14 53	44.7				
	KJN eP	14 53	22				
	SOD eP	14 53	15				
27	NUR ePKP	15 30	38	1.2	20.0		
	i		39.0				
	KJN iPKP	15 30	37.8	1.0	12.0		
	OUL iPKP	15 30	40.2				
	SOD iPKP	15 30	40.7				
	KEV iPKP	15 30	40.8	1.0	12.0		
	H:	15 11	05.4				
	53.0 S, 140.4 E, 41 km						
	West of Macquarie Island						
27	NUR ePKP	15 49	15				
	i		26.0				
	KJN iPKP	15 49	18.8	0.6	17.8		
	OUL iPKP	15 49	17.0				
	SOD ePKP	15 49	13				
	KEV iPKP	15 49	10.2	0.8	10.1		
	H:	15 31	07.8				
	19.9 S, 178.3 W, 562 km						
	Fiji Islands						
27	NUR iP	16 19	38.6	0.6	7.5		
	KJN iP	16 19	14.2	0.6	5.5		
	OUL eP	16 19	07				
27	NUR eP	20 15	01				
	SOD eP	20 15	21				
27	KJN eSg	21 27	19				
	OUL iSg	21 26	39.3				
	SOD eSg	21 26	15				
27	NUR iP	21 40	34.3	0.5	9.2		
	KJN iP	21 40	13.7	0.7	11.6		
	i		25.5				
	OUL iP	21 40	13.0				
	SOD iP	21 40	02.6				
	KEV eP	21 39	53				
28	KJN eP	04 18	58				
	SOD eP	04 18	39				
	H:	04 07	26.7				
	40.3 N, 124.4 W, 39 km						
	Northern California						
28	NUR eP	04 47	36				
	i		44.0				
	eSKS		58 10				
	ePS		59 40				
	KJN iP	04 47	35.0	0.7	6.2		
	i		41.8				
	ePP		51 07				
	OUL eP	04 47	30				
	SOD eP	04 47	27				
	ePP		50 53				
	KEV iP	04 47	21.7				
	ePP		50 44				
	eSKS		57 48				
	ePS		59 02				
	H:	04 34	42.6				
	12.8 N, 89.2 W, 69 km						
	Central America						
28	NUR iP	08 32	17.1 U	0.6	10.0		
	i		34 30.2				
	KJN iP	08 32	14.4 U	0.6	18.5		
	e		34 04				
	SOD iP	08 32	19.6				
	KEV eP	08 32	21				
	H:	08 19	25.3				
	5.8 S, 104.6 E, 91 km						
	Southern Sumatra						
28	NUR iP	14 35	03.0	1.1	33.3		
	i		07.3				
	i		22.5				
	KJN iP	14 34	51.6 U	1.0	26.2		
	i		57.0				
	SOD iP	14 34	51.2				
	KEV iP	14 34	48.3	0.9	15.1		
	H:	14 22	15.0				
	6.7 N, 126.6 E, 114 km						
	Mindanao, P.I.						

June			June		
	T	A		T	A
29	NUR	ePKP ₂	17 29 13		
		ePKP ₂	57		
		e	40 33		
		eSKSP	44 03		
		e	47		
		e	47 15		
		eSS	53 59		
		e	54 53		
		eSSS	18 00 39		
	KJN	ePKP ₂	17 29 10		
		iPKP ₂	57.7		
		ePP	33 52		
	OUL	ePKP ₂	17 29 11		
		iPKP ₂	30 01.1		
	SOD	ePKP ₂	17 29 56		
	KEV	ePKP	17 29 15		
		e	31 38		
		ePP	33 36		
		e	37 46		
		e	47 24		
		eSS	54 00		
		eSSS	18 00 24		
	H: 17 09 13.9				
	62.8 S, 166.3 E, depth N				
	Balleny Islands				
29	KJN	ePKP ₂	18 22 34		
	H: 18 01 51.7				
	62.7 S, 166.4 E, 41 km				
	Balleny Islands				
29	NUR	eP	19 59 59	1.0	12.3
	SOD	eP	19 59 41		
30	KJN	ePn	00 54 45		
		eSn	57 10		
	OUL	e	00 54 56		
		eSn	56 39		
	SOD	ePn	00 53 59		
		e	55 29		
		eSn	50		
	KEV	eSn	00 54 47		
		i	55 03.0		
30	NUR	iP	09 01 31.0	0.9	20.6
	KJN	iP	09 01 24.3	0.7	10.3
		i	41.0		
	OUL	iP	09 01 30.2		
	SOD	iP	09 01 31.9 U		
	KEV	iP	09 01 35.4	0.7	11.6
	H: 08 51 56.7				
	26.9 N, 92.6 E, 64 km				
	Eastern India				
30	NUR	eP	09 50 06		
	H: 09 39 27.2				
	45.6 N, 151.2 E, 48 km				
	Kurile Islands				
30	NUR	iP	14 18 01.0	0.6	9.0
30	NUR	iP	16 33 13.5		
	KJN	iP	16 33 14.4	0.6	7.5
	SOD	iP	16 33 30.4		
	KEV	eP	16 33 40		
30	NUR	iP	18 47 49.8	0.9	11.8
	KJN	iP	18 47 55.2 U	1.8	94.5
	OUL	iP	18 47 48.9		
	SOD	iP	18 47 48.8 U		
		i	56.8		
	H: 18 36 24.2				
	20.0 N, 64.1 W, 17 km				
	North Atlantic Ocean				
30	NUR	ePS	20 31 32		
	H: 20 03 23.6				
	16.1 S, 73.8 W, 66 km				
	Near coast of Peru				

June 9, 1970

 Urmas Luosto
Aili Huovila



~~Quantities to be punched~~
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July				T	A	July				T	A
1	NUR	eP	06 08 07			2	NUR	iP	02 09 59.0		
	KJN	iP	06 08 21.9 U	0.9	9.8		KJN	eP	02 10 36		
	OUL	iP	06 08 32.0								
	SOD	iP	06 08 45.7			2	KJN	eP	08 08 11		
	H: 06 00 55.3						H: 08 02 59.4				
	28.2 N, 55.4 E, 95 km						42.3 N, 12.2 E, depth N				
	Southern Iran						Central Italy				
1	KJN	iP	12 12 17.0			2	NUR	iP	10 10 28.8		
	SOD	eP	12 11 58				i		32.0	0.8	10.1
	H: 12 00 45.6						eS		19 10		
	40.3 N, 124.3 W, 26 km						KJN	iP	10 10 21.6	0.9	13.4
	Northern California						i		24.3		
1	NUR	iP	15 17 06.0				iPcP		11 01.1		
1	NUR	eP	16 29 16				OUL	iP	10 10 29.9		
	e		24				SOD	iP	10 10 29.5		
1	NUR	eP	16 56 21				H: 09 59 53.4				
	KJN	iP	16 56 46.6				20.7 N, 99.4 E, depth N				
	OUL	iP	16 56 55.8				Burma				
	SOD	iP	16 57 15.8			2	NUR	iP	10 36 14.0		
1	NUR	ePKP	18 41 37				KJN	iP	10 36 47.7		
	KJN	iPKP	18 41 30.0	0.7	5.5		ePP		37 23		
	OUL	iPKP	18 41 29.5				OUL	iP	10 36 57.9		
	SOD	ePKP	18 41 24				SOD	eP	10 37 18		
	H: 18 22 52.8						H: 10 31 22.0				
	15.9 S, 175.1 W, 263 km						39.7 N, 16.7 E, depth N				
	Tonga Islands						Southern Italy				
2	NUR	eP	00 21 56			2	NUR	iP	12 24 21.0		
	i		22 01.2				KJN	eP	12 23 58		
	i		06.2				OUL	eP	12 23 54		
	KJN	iP	00 22 17.0	1.0	12.0		SOD	eP	12 23 44		
	iPP		25 19.8				H: 12 13 47.3				
	OUL	eP	00 22 24				43.9 N, 145.8 E, 102 km				
	SOD	eP	00 22 29				Hokkaido, Japan				
	i		35.1			2	KJN	eP	16 10 33		
	H: 00 10 27.6						H: 15 58 01.2				
	6.8 S, 11.6 W, depth N						16.7 S, 66.7 E, depth N				
	Ascension Island						Mid-Indian Rise				
2	NUR	eP	00 39 48			2	NUR	eP	17 44 49		
	KJN	iP	00 40 05.8			2	NUR	iPKP	17 46 51.5	1.0	26.0
	i		18.9				i		56.8		
	SOD	eP	00 40 17				i		47 06.2		
	H: 00 28 13.4						KJN	ePKP	17 46 49		
	7.1 S, 12.0 W, depth N						i		55.3		
	Ascension Island						OUL	ePKP	17 46 48		
2	NUR	iP	01 08 21.7				i		57.2		
							H: 17 27 15.7				
							28.3 S, 176.5 W, 8 km				
							Kermadec Islands				

July				July						
		T	A			T	A			
4	NUR eP	18 08	59	5	KJN iP	01 57	40.4	1.1	18.9	
					i		47.8			
4	NUR ePKP	18 23	32		SOD iP	01 57	39.3			
	i		47.2		ePKKP	02 14	05			
	KJN ePKP	18 23	21		KEV eSS	02 15	48			
	H: 18 03	55.5			H: 01 44	01.1				
	32.3 S, 178.3 W,	88 km			3.8 S, 131.5 E,	depth N				
	South of Kermadec	Islands			West New Guinea					
4	NUR e	22 30	47	5	NUR ePKP	06 27	01			
	eSn	32 07			i		08.6			
	iSg		46.5		KJN iP	06 27	01.2 U	0.8	22.3	
	KJN ePn	22 30	08		SOD ePKP	06 26	55			
	eSn	31 02			H: 06 08	42.4				
	eSb		21		21.2 S, 178.8 W,	500 km (G)				
	SOD ePb	22 29	42		Fiji Islands					
	eSb	30 16								
	KEV ePb	22 29	55	5	NUR eP	11 25	32	0.9	13.4	
	e	30 35			KJN iP	11 25	15.3	0.7	11.0	
	iSb		41.4		i		18.0	0.8	31.5	
	Uppsala:				SOD iP	11 25	11.0			
	H: 22 28	52			KEV iP	11 25	03.2	1.0	24.0	
	67.7 N, 19.2 E				H: 11 12	43.6				
	Swedish Lapland				18.6 N, 147.0 E,	57 km				
					Mariana Islands					
4	NUR iP	23 14	03.0	5	NUR iP	11 44	46.8			
	iPKP ²		22.0		SOD iP	11 44	00.0			
	i		26.2		KEV iP	11 43	43.7			
	e	15 17			H: 11 33	58.9				
	eSS	37 14			53.7 N, 162.2 W,	depth N				
	e	38 20			South of Alaska					
	eSSS	42 24								
	KJN ePKP	23 14	04	5	NUR iP	15 32	53.3			
	e		12		KJN eP	15 32	25			
	e	16 30			SOD iP	15 32	07.5			
	SOD ePKP	23 14	06		H: 15 22	45.2				
	i		11.0		54.0 N, 160.4 E,	48 km				
	KEV iP	23 14	10.6	0.9	16.8	Kamchatka				
	eSS	37 10								
	e	38 04								
	eSSS	42 26								
	H: 22 54	18.0								
	55.9 S, 147.2 E,	depth N								
	West of Macquarie	Island								
5	NUR iP	01 51	51.2	5	KJN iP	17 08	46.8	0.6	8.2	
	KJN iP	01 51	42.0		SOD iP	17 08	51.7			
	SOD ePKP	01 51	35		H: 16 55	45.6				
	H: 01 32	50.8			7.6 S, 108.0 E,	102 km				
	19.3 S, 175.9 W,	187 km			Java					
	Tonga Islands									
					6	NUR ePKP	11 08	53		
						iSKP	11 50.0			
						KJN ePKP	11 08	55		
						iSKP	11 40.3			
						OUL eSKP	11 11	39		

cont.

July				July			
		T	A			T	A
	SOD	iSKP	11 11 32.9				
	H:		10 50 30.5				
			25.4 S, 179.6 E, 522 km				
			South of Fiji Islands				
6	NUR	eP	11 47 22				
	KJN	iP	11 47 08.2 U	0.8	12.3		
	OUL	eP	11 47 10				
	SOD	iP	11 47 03.0				
	H:		11 35 52.7				
			26.7 N, 128.7 E, 37 km				
			Ryukyu Islands				
6	KJN	ePKP	14 47 27				
		e	48				
	H:		14 28 21.9				
			15.3 S, 173.1 W, depth N				
			Tonga Islands				
6	NUR	iPKP	14 50 30.0	0.7	14.2		
		i	31.0				
		i	50.0				
	KJN	iPKP	14 50 23.1	0.6	11.6		
		i	42.4				
	OUL	ePKP	14 50 21				
	SOD	ePKP	14 50 13				
		e	37				
	KEV	iPKP	14 50 13.0				
	H:		14 31 16.7				
			15.3 S, 173.4 W, depth N				
			Tonga Islands				
6	KJN	iP	15 06 49.8	0.8	7.7		
		e	07 18				
6	KJN	iP	15 24 41.8				
6	NUR	ePKP	21 04 31				
		i	44.9				
		i	55.3				
	KJN	iPKP	21 04 21.6				
	H:		20 44 52.1				
			32.2 S, 178.1 W, depth N				
			South of Kermadec Islands				
6	NUR	iP	21 20 27.9				
7	NUR	iP	01 47 40.0				
	KJN	iP	01 47 22.1	0.5	5.9		
7	KJN	iP	03 51 00.5	0.8	10.0		
			cont.				
	OUL	eP	03 51 04				
	SOD	iP	03 51 01.3				
	KEV	eP	03 50 58				
	H:		03 37 54.8				
			1.8 N, 126.4 E, 42 km				
			Molucca Passage				
7	KJN	iP	04 48 44.3				
7	NUR	iP	04 56 14.2	1.2	108.3		
		eSKS	05 06 40				
		eS	07 10				
		ePS	08 12				
	KJN	iP	04 55 59.4 D	1.0	58.9		
		iPP	59 23.2				
		iS	05 06 34.0				
	OUL	iP	04 55 58.6				
		ePP	59 23				
	SOD	iP	04 55 52.3 D				
	KEV	iP	04 55 45.7	1.4	172.2		
		eS	05 06 06				
		ePS	07 04				
	H:		04 43 15.4				
			16.5 N, 147.3 E, 38 km				
			Mariana Islands				
7	KJN	iP	07 15 58.0				
	SOD	eP	07 15 26				
7	KJN	iP	09 08 05.0				
	SOD	iP	09 07 53.8				
7	KJN	eP	09 33 29				
		e	34 49				
7	NUR	iP	09 56 14.5	0.9	16.8		
	KJN	iP	09 56 03.3				
7	NUR	eP	18 17 01				
	KJN	iP	18 17 39.5	0.7	4.8		
	OUL	eP	18 17 47				
	SOD	eP	18 18 09				
	H:		18 12 23.5				
			40.6 N, 19.8 E, 2 km				
			Albania				
7	NUR	iP	21 53 58.0				
	KJN	iP	21 53 35.8	0.4	8.0		
	OUL	eP	21 53 35				
	SOD	iP	21 53 23.4				
7	NUR	iP	21 57 38.5	0.7	11.6		
	KJN	eP	21 57 27				
	OUL	eP	21 57 26				

July						July			
				T	A				
7	NUR	eP	23 08 06			8	KJN	iP	07 48 32.0
8	KJN	iP	02 41 36.8	0.9	7.1	8	NUR	eP	08 08 06
	OUL	eP	02 41 22				KJN	iP	08 07 56.9
	SOD	eP	02 40 58				i		08 07.1
	H: 02 36 59.9						OUL	iP	08 07 56.0
	82.9 N, 6.0 W, depth N					8	NUR	iP	08 14 20.2 U
	North of Svalbard						eS		18 29
8	NUR	iP	04 19 58.0				e		19 55
	i		20 02.0	0.9	21.8		eLQ		08 20.1
	e		22 59			KJN	iP	08 14 56.0 U	1.2 134.2
	eSKS		30 27				iPP		15 41.0
	eS		59				iS		19 42.8
KJN	iP	04 19 47.8 U		0.6	20.6		i		20 09.0
	i		53.7			OUL	iP	08 15 03.0 U	
	iPP		23 24.4			SOD	iP	08 15 24.4 U	
	iS		30 46.2				i		35.0
	iPKKP		37 05.2				e		16 10
OUL	iP	04 19 50.2				KEV	iP	08 15 45.0 U	1.2 51.3
	i		53.4				i		16 38.7
SOD	iP	04 19 47.2					eS		20 56
	eS		30 48				eLQ		08 23.5
KEV	iP	04 19 44.7		0.8	14.4	H: 08 09 17.5			
	eSKS		30 06			37.6 N, 20.3 E, depth N			
	eS		42			Ionian Sea			
H: 04 06 39.7						8	NUR	ePKP	11 38 45
2.1 N, 126.6 E, 16 km							KJN	iPKP	11 38 34.9
Molucca Passage							OUL	ePKP	11 38 34
8	KJN	eP	07 10 56				SOD	iPKP	11 38 28.4
8	NUR	iPKP	07 30 10.0	0.6	18.8	H: 11 19 14.4			
	i		22.1			36.0 S, 178.2 E, 170 km			
KJN	iPKP	07 29 59.3				North Island, N.Z.			
	i		30 12.0			8	NUR	iP	13 11 34.0
	i		31 11.3				KJN	iP	13 11 16.0
OUL	iPKP	07 29 58.1				8	NUR	eP	16 55 05
	i		30 45.1				KJN	eP	16 54 40
SOD	ePKP	07 29 53					OUL	iP	16 54 32.4
KEV	ePKP	07 29 54					SOD	iP	16 54 17.5
	e		30 00				KEV	eP	16 54 01
	ePP		33 26			H: 16 44 25.8			
	e		39 48			54.3 N, 163.8 W, 53 km			
	eSS		51 24			Unimak Island			
H: 07 10 33.5						8	NUR	eP	17 18 30
34.1 S, 179.2 W, 110 km							KJN	iP	17 18 08.8 D
South of Kermadec Islands							OUL	eP	17 18 07
8	SOD	e	07 37 38			H: 17 08 44.7			
	e		38 18			43.5 N, 135.6 E, 334 km			
	eSKP		41 02			Eastern Russia			
H: 07 19 03.0									
56.3 S, 27.6 W, 175 km									
South Sandwich Islands									

July						July					
			T	A			T	A			
8	KJN	eP	18 57 02			KJN	iPKP	05 49 21.7 U	0.9	25.9	
	OUL	eP	18 57 05				i	43.0			
	H: 18 43 57.4						SOD	ePKP	05 49 16		
	1.4 N, 126.2 E, 57 km						H: 05 29 46.9				
	Molucca Passage						34.1 S, 178.8 W, depth N				
							South of Kermadec Islands				
8	NUR	iP	19 41 52.8			9	NUR	iP	06 29 16.1	0.6	11.3
	KJN	iP	19 41 51.0				KJN	iP	06 28 53.7	0.7	8.9
	OUL	eP	19 41 59				OUL	eP	06 28 52		
	SOD	eP	19 42 04				SOD	iP	06 28 40.6		
9	NUR	iP	02 06 23.1 U	1.0	118.0		H: 06 19 01.3				
		eS	15 07				44.3 N, 141.0 E, 145 km				
		eScS	16 19				Hokkaido, Japan				
	KJN	iP	02 05 58.1 U	1.1	82.4	9	NUR	eP	08 23 06		
		iPP	08 14.0				KJN	iP	08 22 41.9		
	OUL	iP	02 05 52.7 U				OUL	eP	08 22 40		
	SOD	iP	02 05 38.6				H: 08 12 21.1				
	KEV	iP	02 05 21.9				44.4 N, 149.6 E, 37 km				
		ePPP	08 56				Kurile Islands				
		eS	13 10			9	NUR	eP	10 37 23		
	H: 01 55 39.8						KJN	eP	10 37 12		
	51.6 N, 174.8 E, 22 km										
	Near Islands										
9	NUR	eP	02 41 47			9	KJN	iP	15 57 23.2	0.7	12.3
	KJN	iP	02 41 36.3	0.8	7.7		OUL	iP	15 57 25.1		
		i	47.9				SOD	iP	15 57 20.8		
							H: 15 46 37.5				
9	NUR	iPKP	03 22 42.2	1.4	82.0		25.3 N, 122.1 E, 213 km				
		i	56.5				Taiwan				
		e	23 18			9	NUR	eP	17 32 30		
		e	33 07				KJN	iP	17 33 09.0		
	KJN	iPKP	03 22 33.8 U	0.7	54.8		OUL	eP	17 33 15		
		i	42.4					i	22.4		
		eSKP	26 06				SOD	eP	17 33 39		
	OUL	iPKP	03 22 31.4				H: 17 27 55.9				
		i	49.5				40.6 N, 19.8 E, depth N				
		iSKP	26 15.2				Albania				
	KEV	ePP	03 25 24			9	KJN	iP	20 50 42.0	0.7	6.9
		eSKP	26 08								
		e	32 18			9	NUR	eP	21 45 16	0.9	13.4
	H: 03 02 58.0						KJN	eP	21 45 06		
	34.2 S, 178.9 W, 37 km						SOD	eP	21 45 38		
	South of Kermadec Islands										
9	NUR	eP	04 36 06	0.5	10.6	9	KJN	eP	23 06 01		
		i	07.0					iPP	09 39.0		
	KJN	iP	04 35 56.5	0.7	12.3		OUL	ePP	23 09 46		
		i	36 07.6				SOD	ePP	23 09 45		
	OUL	eP	04 35 54				H: 22 52 11.5				
9	NUR	iPKP	05 49 32.0 U	1.0	28.0		8.8 S, 124.0 E, 34 km				
							Timor				

July				July			
			T	A		T	A
10	NUR	eP	01 55 50			11	NUR iP 09 06 28.0 0.6 8.8
10	KJN	iP	04 44 14.9				KJN iP 09 06 05.4 0.4 8.9
			H: 04 31 20.8				OUL iP 09 06 03.9
			6.1 S, 104.8 E, 56 km				SOD iP 09 05 53.1
			Sunda Strait				H: 08 55 56.7
10	NUR	iP	11 58 10.2	0.6	6.3		42.5 N, 143.0 E, 88 km
	KJN	iP	11 57 47.9				Hokkaido, Japan
	SOD	eP	11 57 35			11	NUR iP 09 11 44.9 0.9 8.4
		epP	56				
			H: 11 47 31.2			12	NUR iP 00 24 28.6
			41.9 N, 142.2 E, 82 km				KJN eP 00 25 03
			Hokkaido, Japan				OUL eP 00 25 09
10	NUR	iP	19 23 47.3				SOD iP 00 25 32.0
	KJN	iP	19 23 25.0				H: 00 19 39.0
	OUL	iP	19 23 20.0				38.9 N, 21.7 E, 45 km
	SOD	iP	19 23 06.2				Greece
			H: 19 13 20.9			12	NUR iP 03 09 39.8 0.6 32.5
			49.3 N, 155.3 E, 33 km				i 41.0
			Kurile Islands				i 56.1
10	NUR	eP	19 31 53				iS 12 39.5
	KJN	eP	19 32 03				KJN iP 03 10 13.9 0.7 12.3
10	NUR	eP	22 31 25				i 26.8
		eS	34 43				iS 13 40.6
	KJN	eP	22 32 01				OUL iP 03 10 27.4
		eS	36 04				iS 14 09.2
	OUL	eP	22 32 14				SOD iP 03 10 49.2
	SOD	eP	22 32 28				i 54.2
		eS	36 51				eS 15 04
11	KJN	eP	01 19 04	0.9	7.1		KEV iP 03 11 11.0
	OUL	eP	01 19 05				i 31.2
	SOD	iP	01 19 10.6				H: 03 05 44.6
11	NUR	eSKS	06 20 50				44.8 N, 37.1 E, 39 km
		ePS	22 20				Western Caucasus
	KEV	eS	06 20 20			12	NUR iP 05 25 58.1
		eSS	26 40				KJN iP 05 25 47.9 U 0.7 8.9
			H: 05 57 12.6				OUL iP 05 25 51.5
			10.2 N, 85.5 W, 30 km				SOD iP 05 25 47.0
			Costa Rica				H: 05 13 12.3
11	NUR	eP	08 04 03				6.2 N, 126.1 E, 142 km
		eSKS	14 42				Mindanao, P.I.
		ePS	16 16			12	NUR iP 06 08 55.2 0.8 10.1
	KJN	eP	08 04 03				KJN iP 06 09 02.3 U 1.2 29.2
	SOD	eP	08 03 53				i 10.6
			H: 07 51 04.0				OUL iP 06 09 09.3
			10.3 N, 85.4 W, depth N				i 17.9
			Costa Rica				SOD iP 06 09 16.9
							KEV iP 06 09 26.0 1.0 24.0
							H: 05 57 11.1
							6.0 S, 71.4 E, depth N
							Chagos Archipelago

July

July

T A

T A

12 NUR iSKP 06 13 50.4
 KJN iPKP 06 11 05.7
 iSKP 13 43.1
 OUL ePKP 06 11 03
 SOD iSKP 06 13 35.1
 H: 05 52 48.7
 22.8 S, 179.5 W, 559 km
 South of Fiji Islands

12 KJN eP 07 59 45

12 NUR iP 13 11 20.5 U 0.8 187.2
 i 35.0
 ePP 13 44
 ePPP 15 26
 eS 20 08
 eScS 21 18
 eSS 24 20
 eSSS 27 28
 KJN iP 13 10 56.5 U 0.7 72.6
 i 11 06.8
 OUL iP 13 10 53.8 U
 iPcP 11 35.5
 SOD iP 13 10 40.8
 i 42.3
 iPcP 11 32.2
 ePPP 14 15
 ePS 19 00
 KEV eS 13 18 20
 eScS 20 04
 H: 13 00 36.9
 46.5 N, 153.3 E, 12 km
 Kurile Islands

12 NUR iPKP 13 35 13.0
 i 21.0
 i 29.7
 i 33.5
 iSKP 38 14.7
 i 27.6
 KJN iPKP 13 35 02.6
 i 13.2 0.5 22.1
 i 20.5
 iPKP 37 52.1
 i 38 01.0
 iSKP 04.2
 i 11.9
 iPKS 54.0
 OUL iPKP 13 35 02.7
 i 12.3
 i 24.7
 e 37 51
 cont.

iSKP 59.0
 i 38 02.7
 i 09.7
 SOD ePKP 13 35 07
 i 20.6
 iPKP 37 44.9
 iSKP 56.9
 KEV iPKP 13 34 57.9
 i 35 15.5
 i 37 47.9
 iSKP 50.9
 H: 13 16 55.4
 26.1 S, 178.3 E, 603 km
 South of Fiji Islands

12 NUR eP 15 21 28
 KJN eP 15 21 01
 OUL iP 15 21 01.2
 SOD iP 15 20 49.0
 H: 15 10 47.1
 46.3 N, 153.1 E, depth N
 Kurile Islands

12 NUR iP 19 27 30.8 U 1.1 45.2
 i 40.0
 ePP 30 04
 ePPP 31 40
 eS 36 30
 eScS 37 32
 eSS 40 56
 e 44 12
 KJN iP 19 27 09.3 U 1.2 127.3
 i 17.6
 ePP 29 30
 eS 35 44
 OUL iP 19 27 08.0 U
 i 16.8
 iPP 29 30.5
 SOD iP 19 26 56.9 U
 i 27 08.7
 ePP 29 12
 eScS 36 50
 KEV iP 19 26 46.8 1.0 40.0
 i 55.0
 ePP 28 56
 ePPP 30 24
 eS 35 08
 eScS 36 36
 eSS 39 06
 H: 19 16 31.6
 39.7 N, 143.5 E, depth N
 Honshu, Japan

July				July				
		T	A			T	A	
13	NUR eP	00 22 22						
	KJN iP	00 21 58.0						
	OUL eP	00 21 51						
	H:	00 11 35.9						
	53.2 N, 167.5 W, 36 km							
	Fox Islands							
13	NUR iP	03 15 22.9	0.8	11.5	14	NUR iP	18 15 32.7	
	KJN iP	03 15 01.1						
	OUL eP	03 15 00						
	SOD iP	03 14 49.0			14	NUR iP	20 12 29.8	
	KEV eP	03 14 39				KJN iP	20 12 07.2	
	H:	03 04 26.2				iPcP	37.4	
	39.5 N, 143.5 E, 56 km					OUL iP	20 12 06.2	
	Honshu, Japan					SOD iP	20 11 55.4	
						i	12 17.1	
						H:	20 01 35.0	
						40.1 N, 143.5 E, 47 km		
						Honshu, Japan		
13	NUR iP	05 52 13.0			15	NUR iP	01 03 27.7	
	KJN iP	05 51 50.4				KJN eP	01 03 06	
	SOD iP	05 51 36.3				OUL iP	01 02 55.8	
	H:	05 41 25.5				H:	00 53 13.5	
	43.3 N, 147.4 E, depth N					57.5 N, 154.9 W, 73 km		
	Kurile Islands					Kodiak Island		
13	KJN iP	23 39 29.4	0.6	13.7	15	NUR iP	04 30 00.8	
	OUL eP	23 39 31				KJN ePKP	04 29 52	
	SOD eP	23 39 28				OUL ePKP	04 29 51	
	H:	23 26 57.4				H:	04 11 49.2	
	9.8 N, 126.7 E, 62 km					19.7 S, 178.4 W, 646 km		
	Mindanao, P.I.					Fiji Islands		
14	NUR eP	00 01 50			15	NUR eP	06 30 06	
	SOD eP	00 01 07				KJN eP	06 29 46	
14	KJN iP	05 57 20.4	0.7	8.2	15	NUR eP	07 30 38	
	H:	05 44 43.8				KJN eP	07 30 07	
	6.8 N, 73.0 W, 155 km					15	OUL eP	15 32 20
	Northern Colombia						H:	15 20 40.5
14	NUR eP	11 43 49				15.1 N, 60.5 W, 31 km		
	SOD eP	11 43 09				Leeward Islands		
	H:	11 33 22.6			15	SOD eP	16 43 59	
	47.4 N, 152.8 E, 91 km					H:	16 33 28.9	
	Kurile Islands					3.5 N, 31.4 E, 30 km		
14	SOD eP	14 25 49				Uganda		
	H:	14 15 40.3			15	NUR iP	21 32 08.2	
	44.1 N, 149.5 E, 37 km					i	11.3	
	Kurile Islands					cont.		
14	NUR iP	16 06 52.8	1.0	21.7	15	NUR iP	21 32 08.2	
	KJN iP	16 06 31.7				i	11.3	
	i	39.0				cont.		
	cont.							

July		T	A	July		T	A
KJN	ePKP	21	32	03			
OUL	ePKP	21	31	56			
H: 21 12 33.0							
30.4 S, 178.0 W, 40 km							
Kermadec Islands							
16	NUR	eP	05	00	37		
	i				45.0		
	eS		11	28			
	OUL	eP	05	00	29		
	i				40.2		
	SOD	iP	05	00	25.7		
	KEV	e	05	00	28		
H: 04 47 37.2							
5.3 N, 126.8 E, 75 km (G)							
Mindanao, P.I.							
16	NUR	iP	08	27	06.0	U	1.1 90.4
	iPcP				46.9		
	ePP		29	28			
	i		31	34.4			
	iS		35	25.0			
	e		36	16			
	iScS				51.0		
	i		37	14.0			
	eSS		39	40			
	eSSS		42	12			
	eLQ	08	43.5				
KJN	iP	08	26	40.8			
	iPcP		27	25.2			
	iS		34	35.4			
	eP'P'		56	08			
OUL	iP	08	26	36.1	U		
	eP'P'		56	22			
	e		31				
SOD	iP	08	26	22.0			
	ePcP		27	21			
	eS		34	02			
	eScS		36	06			
KEV	iP	08	26	07.8	0.7	23.2	
	i			17.8			
	iPcP		27	12.4			
	ePP		28	00			
	eS		33	30			
	e		34	44			
	eScS		35	50			
	eLR	08	42.5				
H: 08 16 53.3							
52.2 N, 159.0 E, 69 km (D)							
Kamchatka							
16	NUR	iPKP	12	57	54.0		
	e				58 32		
	eSKS	13	04	32			
	ePS		08	16			
	eSS		14	12			
KJN	ePKP	12	57	40			
	ePP		58	28			
KEV	eSKS	13	04	08			
	ePS		07	04			
H: 12 39 26.2							
4.7 S, 153.1 E, 85 km (G)							
New Ireland							
16	KJN	iP	13	07	05.7	0.7	6.2
	OUL	iP	13	07	05.3		
H: 12 54 16.7							
13.0 N, 144.9 E, 92 km							
Mariana Islands							
16	NUR	iP	15	06	57.0	U	1.0 38.0
	i				07 14.0		
	i				16.9		
KJN	iP	15	06	43.8	U	1.0	40.3
OUL	iP	15	06	34.4	U		
SOD	eP	15	06	24			
KEV	eP	15	06	11			
H: 14 55 00.0							
37.1 N, 116.1 W, 0 km							
Southern Nevada							
16	NUR	eP	17	26	55		
	SOD	eP	17	26	46		
16	NUR	eP	19	41	56		
16	NUR	ePKP	23	18	06		
	e				12		
KJN	ePKP	23	18	15	0.9	5.4	
	i				25.4	1.1	25.7
	eSKP		21	33			
	ePKS			50			
OUL	ePKP	23	18	15			
	i				26.9		
	eSKP		21	35			
SOD	iPKP	23	18	23.0			
H: 22 59 09.3							
59.2 S, 25.3 W, depth N							
South Sandwich Islands							
17	NUR	iP	01	15	35.0	0.9	13.4
	KJN	iP	01	15	09.4		
	OUL	eP	01	15	04		
	SOD	eP	01	14	50		

July							July							
				T	A					T	A			
17	NUR	iP	04 14 25.3	U	0.6	28.8	17	NUR	eP	23 06 09				
	KJN	iP	04 14 00.4	U	0.6	15.8		KJN	eP	23 06 50				
	OUL	iP	04 13 54.8	U										
	SOD	iP	04 13 40.5				17	NUR	iP	23 21 03.2	0.7	5.2		
	KEV	eP	04 13 21					i	21.8					
	H: 04 03 36.4							KJN	iP	23 21 10.9	0.8	3.8		
	51.4 N, 179.9 W, 34 km													
	Andreanof Islands						18	NUR	iP	00 10 06.5				
17	NUR	ePKP	09 37 14					KJN	iP	00 10 18.8	1.0	16.4		
	KJN	ePKP	09 37 06					i	25.1					
	H: 09 18 17.8							OUL	iP	00 10 13.0	U			
	20.9 S, 178.2 W, 190 km							i	18.9					
	Fiji Islands							SOD	iP	00 10 16.7				
								i	22.9					
								H: 00 00 47.4						
17	NUR	iP	10 57 16.9					29.7 N, 42.9 W, depth N						
	KJN	iP	10 57 05.2	0.8	3.8			North Atlantic Ridge						
17	NUR	eP	14 10 50				18	NUR	iP	00 56 08.0	0.6	12.5		
	KJN	iP	14 10 39.2					KJN	iP	00 55 57.5				
	OUL	eP	14 10 39					OUL	eP	00 55 57				
	SOD	eP	14 10 49					SOD	eP	00 55 30				
17	NUR	eP	21 01 10				18	NUR	iP	01 02 42.0	0.5	10.6		
	KJN	iP	21 00 46.4	0.8	7.7			KJN	iP	01 02 36.0				
		iPeP	01 57.5											
	OUL	iP	21 00 38.2				18	KJN	eP	04 22 10				
	SOD	iP	21 00 20.9					H: 04 08 36.4						
	H: 20 51 37.5							6.4 S, 130.0 E, 145 km						
	64.1 N, 147.6 W, 31 km							Banda Sea						
	Central Alaska						18	NUR	eP	04 53 34				
17	KJN	eP	21 04 14					KJN	eP	04 53 38				
	OUL	eP	21 04 05					OUL	eP	04 53 43				
	SOD	eP	21 03 48				18	NUR	iP	05 34 50.3	U	1.1	169.0	
	H: 20 55 04.3							i	55.5	1.1	635.5			
	64.0 N, 147.3 W, 20 km							i	35 00.2	1.1	778.3			
	Central Alaska							e	50					
17	OUL	eP	22 12 38					ePP	37 10					
	SOD	eP	22 12 22					eS	43 10					
	H: 22 03 36.7							KJN	iP	05 34 31.7	U	1.0	172.2	
	64.0 N, 147.5 W, 12 km							i	36.0					
	Central Alaska							i	41.5					
17	NUR	iPKP	22 43 04.7	0.7	76.8			eS	42 33					
	KJN	iPKP	22 42 52.8	0.8	6.2			OUL	iP	05 34 34.8				
		i	43 01.3					ePP	36 39					
	OUL	ePKP	22 42 53					SOD	iP	05 34 26.7	U			
		i	54.8					i	30.0					
	H: 22 23 55.5							i	36.9					
	28.9 S, 178.8 W, 227 km							i	48.6					
	Kermadec Islands							ePP	36 42					
								cont.						

July				July				
			T	A			T	A
	ePPP	37	57					
	eS	42	23					
	H: 05 24 48.0							
	38.3 N, 119.4 E, depth N							
	Northeastern China							
18	NUR	iP	07	51	21.2	0.8	17.3	
	KJN	iP	07	51	03.4	0.7	4.8	
	OUL	eP	07	51	04			
	SOD	eP	07	50	58			
	H: 07 41 20.5							
	38.7 N, 119.4 E, depth N							
	Northeastern China							
18	NUR	eP	12	35	04			
18	KJN	eP	13	14	07			
18	NUR	iP	13	18	47.4	0.8	13.0	
	KJN	iP	13	18	30.7	0.8	3.5	
		i			34.5			
	OUL	iP	13	18	36.7			
	SOD	eP	13	18	33			
	H: 13 10 31.9							
	43.3 N, 97.1 E, depth N							
	Mongolia							
18	NUR	iP	13	43	52.0			
		i			59.7			
		i			44 14.6			
		eS			52 08			
	KJN	iP	13	43	32.2	0.7	8.2	
		i			40.8			
		i			53.2			
	OUL	eP	13	43	36			
		i			43.4			
	SOD	eP	13	43	29			
		i			37.4			
	H: 13 33 48.4							
	38.1 N, 119.4 E, 32 km							
	Northeastern China							
18	NUR	iPKP	14	32	54.7 U	0.8	28.8	
		ipPKP			33 08.3			
	KJN	iPKP	14	33	01.8	1.1	24.3	
		epPKP			16			
		iSKP			36 26.0			
		iPKS			39.5			
	SOD	iPKP	14	33	05.3			
		ipPKP			20.8			
		iSKP			36 36.1			
	H: 14 13 55.4							
	60.5 S, 26.0 W, 40 km							
	South Sandwich Islands							
18	KJN	iP	18	46	16.9 U			
18	NUR	iP	21	05	45.5			
		i			51.8			
	KJN	iP	21	06	33.1			
19	NUR	iP	02	02	10.3	0.7	15.5	
	KJN	iP	02	01	51.0	1.0	17.4	
		i			55.8			
	OUL	iP	02	01	54.0			
	SOD	iP	02	01	46.2			
	H: 01 52 09.4							
	38.9 N, 119.4 E, depth N							
	Northeastern China							
19	NUR	iPP	05	13	36.3			
		i			40.0			
		e			14 16			
		eS			21 12			
		eSS			28 48			
		LZ					20	14.3u
		LN					19	2.1u
		LE					20	9.3u
	KJN	eP	05	09	27			
		e			44			
		ePKP			13 18		1.2	27.5
		ePP			49			
		ePKKP			24 41			
	OUL	eP	05	09	22			
		e			12 41			
		iPP			13 42.6			
		ePKKP			24 38			
	SOD	ePKP	05	13	19			
		ePP			35			
		eS			21 26			
		ePS			23 20			
		ePKKP			24 36			
	H: 04 54 54.1							
	17.3 S, 72.5 W, 54 km (D)							
	Peru							
19	NUR	iPKP	05	29	44.6			
		i			54.8	0.8	21.6	
	KJN	ePKP	05	29	39			
		i			47.1			
		iPKS			33 17.0			
	OUL	ePKP	05	29	38			
		i			47.2			
	SOD	iPKP	05	29	42.2			
	H: 05 11 43.4							
	21.5 S, 179.5 W, 659 km							
	Fiji Islands							

July		T	A	July		T	A
KEV	ePKP 12 33 22 i 23.8	0.6	16.3	OUL	eP 22 45 16 SOD eP 22 45 27		
H: 12 13 43.4 60.0 S, 65.3 W, depth N Drake Passage				H: 22 37 29.6 28.2 N, 57.3 E, 57 km Southern Iran			
20	NUR iP 13 34 30.4			20	NUR iP 23 53 12.5		
20	NUR iP 15 56 54.5 iS 16 01 01.4	0.8	31.7		KJN iP 23 53 01.0 U i 07.0	0.7	4.8
	KJN iP 15 57 31.2 i 47.8	0.6	9.6		OUL eP 23 53 06		
	OUL iP 15 57 38.6 i 54.8				SOD iP 23 53 03.6		
	SOD iP 15 57 59.8 U				KEV eP 23 53 03		
	KEV eP 15 58 21			21	NUR iP 00 04 33.4	0.8	11.5
	H: 15 51 54.1				KJN iP 00 04 14.0		
	37.9 N, 20.2 E, 19 km Ionian Sea				OUL eP 00 04 16		
					SOD eP 00 04 12		
					H: 23 54 31.2		
					38.4 N, 119.3 E, depth N Northeastern China		
20	NUR eP 16 18 22			21	NUR ePKP 02 41 25		
	KJN iP 16 18 02.3				KJN ePKP 02 41 12		
	OUL eP 16 18 02				H: 02 22 06.4		
20	KJN iP 16 52 38.3	0.9	7.1		19.2 S, 176.5 W, depth N Fiji Islands		
20	NUR ePKP 20 09 05			21	NUR iP 05 01 53.2	0.7	10.3
	ePKS 12 40				KJN iP 05 01 42.8		
	KJN ePKP 20 08 54			21	NUR iP 06 13 44.3		
	i 09 04.2			21	NUR iP 06 25 03.0	0.9	80.6
	OUL ePKP 20 08 57				KJN iP 06 24 50.7	0.7	7.5
	i 09 03.6				i 57.3		
	KEV ePKP 20 08 24				OUL iP 06 24 50.4		
	H: 19 49 42.0				i 57.0		
	19.2 S, 176.4 W, 20 km (G) Fiji Islands			21	NUR iP 06 57 09.8		
20	NUR iPKP 20 23 29.6 U	1.0	44.0		e 59 18		
	epPKP 24 24			21	KJN ePKP 07 20 28		
	iSKP 26 33.0				H: 07 01 07.9		
	KJN iPKP 20 23 22.9 U	1.0	30.5		17.6 S, 173.1 W, depth N Tonga Islands		
	epPKP 24 18			21	KJN eP 07 20 55		
	OUL iPKP 20 23 22.2 U				OUL eP 07 20 47		
	epPKP 24 20				i 58.3		
	SOD ePKP 20 23 18				SOD eP 07 20 50		
	KEV iPKP 20 23 15.2	1.1	30.9		H: 07 10 18.3		
	H: 20 04 46.7				21.0 N, 45.7 W, 22 km (D) North Atlantic Ridge		
	15.6 S, 167.8 E, 196 km New Hebrides Islands						
20	NUR eP 22 44 54						
	KJN eP 22 45 04						

cont.

July

July

T A

T A

KJN epPKP 15 30
 KJN ePKP 20 14 32
 i 40.9
 ipPKP 15 23.5
 iSKP 18 29.0
 OUL ePKP 20 14 39
 i 43.4
 epPKP 15 22
 SOD ePKP 20 14 38
 KEV ePKP 20 14 34
 H: 19 55 37.0
 26.1 S, 177.5 W, 180 km (G)
 South of Fiji Islands
 22 NUR eP 21 43 43
 22 NUR ePKP 23 40 37
 iSKP 43 16.0
 KJN iPKP 23 40 30.8 0.8 8.5
 OUL ePKP 23 40 29
 SOD ePKP 23 40 26
 H: 23 22 26.7
 18.9 S, 178.7 W, 562 km
 Fiji Islands
 23 NUR ePKP 00 24 34
 KJN ePKP 00 24 27
 H: 00 05 23.3
 19.2 S, 169.8 E, depth N
 New Hebrides Islands
 23 NUR eP 01 27 54
 KJN iP 01 27 34.5 1.1 9.5
 OUL eP 01 27 35
 SOD iP 01 27 25.7
 H: 01 16 16.4
 31.8 N, 141.7 E, 32 km
 South of Honshu, Japan
 23 NUR iP 02 53 22.2 U 0.5 30.4
 i 37.6
 i 54 11.1
 i 17.9
 KJN iP 02 53 08.8 U 0.6 63.0
 i 42.8
 i 59.0
 OUL iP 02 53 16.4
 SOD iP 02 53 16.3 U
 KEV iP 02 53 19.6 0.6 27.5
 i 38.4
 i 54 09.0
 H: 02 46 58.1
 49.9 N, 78.3 E, 0 km (G)
 Eastern Kazakh SSR

23 SOD eP 04 39 24
 H: 04 27 03.6
 17.7 N, 95.0 W, 148 km
 Oaxaca, Mexico
 23 NUR iPKP 08 20 08.6 0.7 11.6
 i 15.4 0.9 21.8
 iSKP 23 01.1
 ePKS 51
 KJN iPKP 08 20 08.3 U 0.7 19.9
 iSKP 22 49.6
 ePKS 23 40
 OUL iPKP 08 20 07.3
 iSKP 22 49.4
 SOD ePKP 08 19 58
 iSKP 22 42.3
 H: 08 01 50.6
 23.7 S, 179.2 E, 545 km
 South of Fiji Islands
 23 KJN eP 11 36 47
 23 NUR iP 13 25 40.9 U 0.9 31.9
 ipP 49.0
 isP 53.3
 ePP 28 12
 eS 34 44
 ePS 35 10
 eSS 39 24
 KJN iP 13 25 19.9 U 1.1 98.6
 isP 32.1
 iPP 27 43.0
 ePS 34 28
 OUL iP 13 25 19.9 U
 isP 31.4
 iPP 27 51.8
 SOD iP 13 25 08.8 U
 isP 20.5
 KEV iP 13 24 58.9 U 1.1 52.4
 isP 25 11.2
 eS 33 26
 eScS 34 48
 eSS 37 26
 H: 13 14 35.1
 37.3 N, 141.5 E, 53 km
 Honshu, Japan
 23 NUR eP 14 10 49
 23 NUR iP 16 38 16.3 0.6 8.8
 KJN iP 16 37 58.3 0.8 7.7
 OUL eP 16 37 59
 SOD iP 16 37 50.6
 cont.

July			T	A	July			T	A
	KEV	iP 16 37 42.9	0.8	11.5		eSKS	24 14		
		H: 16 27 29.4				eS	25 30		
		30.5 N, 137.6 E, 487 km				ePS	27 06		
		South of Honshu, Japan				eSS	32 44		
						H: 02 59 21.0			
23	NUR	iP 17 46 43.7				11.9 S, 75.1 W, 1 km			
	KJN	eP 17 46 57				Peru			
	OUL	iP 17 47 14.3							
23	KJN	eP 22 40 24			24	KJN	eP 04 22 03		
						OUL	iP 04 21 53.0		
						SOD	iP 04 21 31.0		
23	NUR	eP 23 47 09			24	SOD	eP 04 36 28		
	KJN	eP 23 46 56			24	NUR	eP 05 16 51		
24	NUR	eP 00 46 19				KJN	eP 05 16 32		
	KJN	iP 00 47 00.8				i	36.0		
24	KJN	iP 01 07 06.0				e	19 32		
		i 20.0				OUL	eP 05 16 40		
	OUL	eP 01 07 04				i	42.9		
		e 14				SOD	eP 05 16 32		
	SOD	eP 01 06 43				KEV	eP 05 16 34		
	KEV	eP 01 06 29				H: 05 03 26.7			
		H: 00 56 35.6				1.6 N, 126.5 E, 41 km			
		51.3 N, 173.1 W, 44 km				Molucca Passage			
		Andreanof Islands			24	NUR	eP 09 14 39		
24	NUR	iP 01 36 44.2	0.7	9.0	24	NUR	ePP 13 00 17		
	KJN	iP 01 36 20.1	1.0	8.7		eSKS	06 32		
	OUL	iP 01 36 18.5				eS	07 44		
	SOD	iP 01 36 04.7				ePS	09 36		
		H: 01 26 01.0				ePPS	10 34		
		45.6 N, 152.1 E, 30 km (G)				eSS	14 34		
		Kurile Islands				KJN	ePP 13 00 23		
24	NUR	iPKP 02 46 48.9	0.9	20.2		KEV	ePP 13 01 26		
	KJN	iPKP 02 46 37.7	0.9	10.7		eS	09 12		
	OUL	ePKP 02 46 38				ePS	11 00		
		H: 02 27 32.8				eSPP	12 00		
		32.6 S, 180.0 E, 223 km				eSS	17 12		
		South of Kermadec Islands				eSSS	21 42		
						H: 12 41 40.2			
24	NUR	ePP 03 17 49				45.4 S, 35.0 E, depth N			
		eSKS 24 08				Prince Edward Islands			
		eS 25 30			24	NUR	ePKP 14 41 57		
		ePS 26 52				KJN	ePKP 14 41 51		
		eSS 32 46				H: 14 23 18.0			
KJN	eP	03 13 35				15.3 S, 175.2 W, 310 km			
		e 16 58				Tonga Islands			
		iPP 18 05.3			24	NUR	eP 15 07 39		
OUL	ePP	03 17 45				KJN	iP 15 07 16.7		
KEV	ePP	03 17 48							
	ePPP	20 12							
		cont.							

July		T	A	July		T	A		
	SOD iP 15 07 04.0 H: 14 56 57.7 41.7 N, 142.5 E, 70 km Hokkaido, Japan			25	NUR iPKP 06 24 11.2 ePP 58 iSKS 29 55.7 e 30 58 eSP 33 26 ePS 34 40 iPKKP 35 11.9 i 21.8 esSP 37 23 esSS 42 47 KJN eP 06 20 29 ePKP 24 15 i 54.8 iPP 25 12.4 i 26 08.7 iSKS 30 05.0 i 31 12.8 ePKKP 35 04 i 12.1 OUL iPKP 06 24 14.0 i 38.1 ePP 58 ePKKP 35 04 i 13.1 SOD iPKP 06 24 16.0 iPP 25 13.6 i 26 57.6 eSKS 30 06 e 31 14 eSP 33 48 iPKKP 35 02.0 i 11.2 KEV ePKP 06 24 28 e 49 ePP 25 16 eSKS 30 08 e 31 16 eSP 33 56 e 34 58 ePKKP 35 02 e 10 esSS 43 52 H: 06 06 42.4 25.6 S, 63.3 W, 579 km (D) Salta, Argentina	0.7	9.0	0.8	6.2
24	NUR eP 16 29 33 KJN eP 16 29 08 ePcP 58 OUL iP 16 29 06.8 SOD iP 16 28 51.7 H: 16 19 07.4 49.5 N, 155.7 E, depth N Kurile Islands								
24	NUR eP 23 26 42 KJN iP 23 27 14.5 ePP 28 16 OUL iP 23 27 22.2 SOD iP 23 27 43.6 H: 23 21 17.2 34.9 N, 26.0 E, 41 km Crete	0.9	8.0						
24	NUR eP 23 39 29 KJN eP 23 39 53 H: 23 33 59.5 35.0 N, 26.5 E, 101 km Crete								
25	NUR iP 01 10 53.4 KJN iP 01 10 35.9 D OUL iP 01 10 36.4 SOD iP 01 10 27.9 D KEV iP 01 10 20.6 H: 00 59 47.7 28.2 N, 139.8 E, 462 km Bonin Islands	0.8 0.6 0.7	20.2 12.3 12.9						
25	NUR eP 04 43 29 KJN iP 04 43 05.1 OUL iP 04 42 57.1 SOD iP 04 42 40.9 H: 04 33 17.5 58.4 N, 152.3 W, 56 km Kodiak Island	1.0	12.0						
25	NUR iP 04 50 55.6 KJN iP 04 50 42.0 OUL eP 04 50 44 SOD eP 04 50 42 H: 04 37 35.9 0.2 S, 125.1 E, 82 km Molucca Sea			25	NUR eP 09 17 15 KJN iP 09 16 48.8 OUL iP 09 16 44.2 SOD iP 09 16 29.1 H: 09 07 03.2 53.7 N, 161.2 E, depth N Kamchatka				

July				July			
		T	A			T	A
26	NUR	iP	15 24 25.3				
		iPcP	56.9				
	KJN	eP	15 24 00				
	OUL	eP	15 23 55				
	H: 15 13 41.7						
	51.6 N, 175.3 E, 36 km						
	Rat Islands						
26	NUR	iP	15 42 51.1				
		iPcP	43 19.1				
	KJN	iP	15 42 26.8				
	OUL	iP	15 42 20.7				
		i	24.5				
		iPcP	43 01.7				
	SOD	eP	15 42 06				
		iPcP	52.4				
	H: 15 32 10.0						
	53.3 N, 167.1 W, 69 km						
	Fox Islands						
26	KJN	eP	16 29 41				
26	NUR	ePKP	17 36 10				
	KJN	iPKP	17 36 16.0	1.0	8.7		
		i	23.0				
	OUL	iPKP	17 36 16.3				
		i	23.6				
		i	31.7				
	SOD	iPKP	17 36 19.7				
	H: 17 17 16.2						
	56.4 S, 25.9 W, 38 km						
	South Sandwich Islands						
26	NUR	iP	21 08 02.0	0.8	17.3		
	KJN	iP	21 07 53.2 U	1.1	64.8		
		i	08 05.0				
	OUL	iP	21 07 52.6				
		i	08 04.2				
	SOD	eP	21 07 54				
26	KJN	eP	21 46 40				
27	NUR	iPKP	02 33 32.3	0.7	25.8		
		iPKS	36 58.0				
	KJN	iPKP	02 33 27.7	0.9	27.7		
		i	42.1				
		e	36 40				
		iSKP	49.0				
	OUL	iPKP	02 33 27.1				
		iSKP	36 49.9				
	SOD	iPKP	02 33 23.1				
	KEV	iPKP	02 33 20.4	0.9	23.5		
	H: 02 14 28.1						
	19.4 S, 168.8 E, 70 km						
	New Hebrides Islands						
27	KJN	eP	07 52 19				
		i	26.0				
27	NUR	iP	09 04 49.3	0.7	15.5		
		i	05 06.4				
		eS	07 23				
		i	42.5				
		e	08 31				
	KJN	iP	09 05 32.6	0.5	9.6		
		i	57.8				
		iS	08 50.9				
		e	09 12				
	OUL	eP	09 05 42				
		i	46.1				
		i	06 01.6				
	SOD	eP	09 06 09				
		i	12.7				
		e	10 25				
	KEV	i	09 06 43.8	0.6	10.0		
	H: 09 01 28.1						
	45.7 N, 26.4 E, 163 km						
	Rumania						
27	NUR	iP	10 33 52.4	0.6	3.8		
	KJN	iP	10 33 27.2	0.8	7.7		
	OUL	iP	10 33 25.9				
	SOD	iP	10 33 13.3 D				
	H: 10 23 02.7						
	43.8 N, 148.9 E, depth N						
	Kurile Islands						
27	NUR	iP	11 13 18.1	0.8	5.8		
	KJN	iP	11 12 54.5	1.0	7.6		
	SOD	eP	11 12 42				
	H: 11 02 27.8						
	40.9 N, 142.3 E, 43 km						
	Honshu, Japan						
27	KJN	iP	13 49 52.3				
	SOD	iP	13 49 41.7				
		e	51				
27	NUR	eP	17 23 16				
27	NUR	iP	19 37 23.1 D	0.7	19.4		
	KJN	iP	19 36 57.3 D	1.0	16.4		
		i	37 06.8				
	OUL	iP	19 36 49.6				
	SOD	iP	19 36 33.5				
	KEV	iP	19 36 16.3 U	1.1	16.7		
	H: 19 27 03.9						
	57.6 N, 153.6 W, 51 km						
	Kodiak Island						

July				T	A	July				T	A
	KEV	iP	15 49 42.2	1.2	25.7		SOD	iP	12 20 37.8		
	H:		15 37 56.2				KEV	iP	12 20 34.6		
			24.1 N, 142.7 E, depth N								
			Volcano Islands								
29	KJN	iP	00 46 07.6			29	NUR	iP	16 57 41.7		
	SOD	eP	00 45 59				KJN	iP	16 57 25.0	0.6	5.5
	KEV	eP	00 45 56				OUL	iP	16 57 26.7		
	H:		00 33 02.4				SOD	iP	16 57 18.5		
			8.0 N, 82.9 W, depth N			30	KJN	iP	00 43 56.2		
			Panama-Costa Rica border				SOD	iP	00 43 55.3		
29	NUR	iP	00 52 06.7	1.0	12.0	30	NUR	eP	01 26 05		
	KJN	iP	00 52 11.7	1.3	30.4		KJN	iP	01 25 49.3		
		i	19.8			30	KJN	ePKP	01 47 43		
	OUL	iP	00 52 05.4				OUL	ePKP	01 47 42		
		i	14.4				H:		01 29 11.8		
	SOD	iP	00 52 05.1						13.1 S, 166.9 E, 193 km		
	KEV	iP	00 52 04.1	0.8	8.6				New Hebrides Islands		
	H:		00 40 42.5			30	NUR	iP	03 36 04.8 D	0.9	18.5
			19.9 N, 64.1 W, 32 km				i	12.2			
			Virgin Islands				KJN	iP	03 35 48.0 D	0.9	34.8
29	KJN	eP	02 09 26				i	56.8			
		e	13 31				OUL	iP	03 35 48.9		
	SOD	eP	02 09 23				i	56.9			
	KEV	eSS	02 28 26				SOD	iP	03 35 41.0 D		
	H:		01 55 20.4				KEV	iP	03 35 33.4	1.1	45.2
			3.4 S, 144.8 E, 6 km				i	42.0			
			New Guinea				H:		03 23 37.6		
29	NUR	iP	03 34 06.9						22.4 N, 142.8 E, 20 km (G)		
	KJN	iP	03 33 47.6	0.7	4.1				Volcano Islands		
	SOD	iP	03 33 38.0			30	NUR	eP	04 30 42	1.0	16.0
	KEV	iP	03 33 29.1				i	54.8			
29	NUR	iPKP	06 43 11.3 U	0.9	245.3		eS	40 32			
		ipPKP	46.5				KJN	iP	04 30 23.6 U	1.1	31.1
		e	50 05				i	30.6			
	KJN	iPKP	06 43 04.6 U	0.8	40.0		OUL	iP	04 30 23.9 U		
		ipPKP	38.0				i	35.6			
	OUL	iPKP	06 43 04.2 U				SOD	iP	04 30 15.1 U		
		ipPKP	38.4				i	26.1			
	SOD	iPKP	06 43 00.7				KEV	iP	04 30 06.7	0.9	28.6
	KEV	iPKP	06 42 57.8 U	0.7	31.0		i	18.0			
		ipPKP	43 32.0				eS	39 26			
	H:		06 24 21.6				H:		04 18 44.5		
			14.8 S, 167.2 E, 124 km (D)						28.5 N, 142.6 E, depth N		
			New Hebrides Islands						Bonin Islands		
29	NUR	eP	12 20 50			30	KJN	eP	05 12 56		
	KJN	iP	12 20 38.7 U	0.8	18.5		SOD	eP	05 12 58		
	OUL	iP	12 20 41.6			30	NUR	iP	10 15 03.3	0.9	8.4
			cont.						cont.		

July			July			July		
	T	A		T	A		T	A
	KJN eP	10 14 38				eS	42 38	
	OUL eP	10 14 33				e	43 28	
	KEV eP	10 14 02				eSS	47 08	
	H:	10 04 17.8				eP'P'	12 02 00	
		53.0 N, 170.2 W, 35 km (G)				KJN iP	11 33 17.6 D	
		Fox Islands				ePP	35 42	
30	NUR iP	12 58 08.9	0.6	6.3		eP'P'	12 02 21	
	KJN iP	12 57 45.9	0.6	4.1	OUL iP	11 33 16.3		
	OUL iP	12 57 45.0			iP'P'	12 02 32.4		
	H:	12 47 24.5			i	37.8		
		42.7 N, 144.2 E, 33 km			SOD eP	11 33 01		
		Hokkaido, Japan			KEV iP	11 32 43.4		
					i	50.2		
					eS	40 40		
30	NUR eP	15 26 57	1.0	12.0	H:	11 23 01.2		
	KJN eP	15 26 34				53.0 N, 170.1 W, 37 km		
	H:	15 16 29.1				Fox Islands		
		52.5 N, 172.2 E, 58 km						
		Near Islands			31	NUR eP	12 16 13	1.0 8.0
30	NUR iP	17 19 53.5	0.7	5.2		KJN eP	12 15 40	
	i	20 09.3				OUL iP	12 15 39.2	
	KJN eP	17 19 23				H:	12 06 44.5	
	H:	17 09 50.3					64.9 N, 151.2 W, depth N	
		55.5 N, 164.0 E, depth N					Central Alaska	
		Komandorsky Islands			31	NUR iSKP	13 49 00.3	
31	NUR ePKP	00 11 36				KJN iPKP	13 46 06.2	
	e	53				iSKP	48 50.1	
	KJN ePKP	00 11 36				OUL iPKP	13 46 05.2	
	OUL ePKP	00 11 40				iSKP	48 48.2	
	H:	23 52 31.7				H:	13 27 43.6	
		23.6 S, 177.0 W, 137 km					25.6 S, 179.4 E, 552 km	
		South of Fiji Islands					South of Fiji Islands	
31	NUR eP	02 48 24	0.9	5.0	31	NUR ePKP	20 38 39	
	KJN iP	02 48 15.4 U	0.9	11.6		KJN ePKP	20 38 32	
	OUL eP	02 48 20				OUL ePKP	20 38 32	
	SOD eP	02 48 15				H:	20 19 31.4	
	H:	02 34 59.5					19.3 S, 168.7 E, 52 km	
		0.1 S, 127.1 E, depth N					New Hebrides Islands	
		Halmahera						
31	KJN i(P)	11 04 32.0						
	OUL e(P)	11 04 28						
	H:	10 52 01.2						
		27.1 N, 111.3 W, 30 km						
		Gulf of California						
31	NUR iP	11 33 46.0 D	1.0	38.0				
	ePPP	37 56						
		cont.						

September 10, 1970

Urmas Luosto
Aili Huovila



No local epicenters

August							August							
					T	A						T	A	
1	NUR	iPKP	03 29	00.2	0.7	6.5	OUL	iP	23 54	00.1				
	KJN	iPKP	03 28	53.0				iPcP		41.6				
		H:	03 10	29.9			SOD	iP	23 53	46.5				
			12.4 S,	167.1 E,				i		51.0				
				247 km				i	54	09.2				
				Santa Cruz Islands				ePcP		33				
1	NUR	iP	08 33	53.0	0.8	7.2		eS	24 02	06				
1	NUR	iP	10 34	09.4				eScS	03	35				
	KJN	iP	10 33	58.7			KEV	eSS	06	16				
		i	34	10.2				eP	23 53	35				
1	NUR	eP	12 07	06				i	54	11.0				
1	NUR	ePKP	12 24	34				iPcP		25.2				
		i		46.0	0.8	24.5		e	56	22				
		epPKP	25 29					ePPP	57	22				
		iSKP	28 00.9					eS	24 01	28				
		i		11.8				e	02	00				
	KJN	iPKP	12 24	33.2 U	0.8	15.4		eScS	03	40				
		i		39.0				H:	23 43	44.9				
		iSKP	27 50.0						45.6 N,	150.9 E,				
		ePKS	28 04							38 km				
	OUL	iPKP	12 24	32.2 U						Kurile Islands				
		eSKP	27 49				1	NUR	iP	23 55	39.0			
	SOD	ePKP	12 24	27					eS	24 04	19			
		i		35.0					eScS	05	48			
		eSKP	27 42				2	NUR	iP	00 45	02.0	0.5	15.8	
		H:	12 05	34.6					iPcP		36.5			
			23.4 S,	177.5 W,				KJN	iP	00 44	38.2	0.7	11.6	
				189 km (D)					ePcP		45 22			
				South of Fiji Islands				OUL	iP	00 44	36.0			
1	NUR	eP	13 18	17					iPcP	45	20.3			
	KJN	e	13 18	30				SOD	iP	00 44	22.7			
	OUL	iP	13 18	17.4					ePcP	45	07			
		i		29.6				KEV	eP	00 44	12			
	SOD	eP	13 18	18					i		42.2			
		H:	13 06	49.1					e		55			
			18.8 N,	64.4 W,					H:	00 34	16.9			
				47 km						45.3 N,	151.1 E,			
				Virgin Islands							21 km			
											Kurile Islands			
1	NUR	iP	23 54	26.6	0.7	16.8	2	NUR	iP	00 49	33.0			
		iPcP		56.0					KJN	iP	00 49	22.6		
		e		58 38					OUL	eP	00 49	25		
		e	24 00	10					SOD	iP	00 49	21.7		
		eS	03 06						H:	00 36	55.5			
		ePS		28						6.3 N,	126.7 E,			
		eScS	04 32								223 km			
		eSS	07 38								Mindanao, P.I.			
	KJN	iP	23 54	01.0	1.2	77.4	2	NUR	iP	01 24	18.0			
		iPcP		42.9					H:	01 13	34.8			
				cont.						45.2 N,	150.9 E,			
											depth N			
											Kurile Islands			

August

T A

August

T A

2 NUR eP 02 50 48
KJN eP 02 50 27
H: 02 40 04.9
45.2 N, 150.9 E, depth N
Kurile Islands

2 NUR iP 04 56 43.3 D 0.6 10.0
e 55
KJN iP 04 56 40.3 0.7 46.6
i 52.0
eS 05 07 24
OUL iP 04 56 45.0
i 55.3
SOD eP 04 56 46
KEV eP 04 56 48
H: 04 43 50.9
5.6 S, 104.5 E, 79 km
Southern Sumatra

2 KJN eP 04 58 11

2 NUR eP 05 08 31
KJN eP 05 09 10
SOD eP 05 09 17

2 NUR iP 06 14 53.0
KJN eP 06 14 28
SOD eP 06 14 14
H: 06 04 08.5
45.2 N, 150.9 E, depth N
Kurile Islands

2 NUR eP 10 28 37
KJN eP 10 28 13
H: 10 17 54.1
45.3 N, 151.0 E, 38 km
Kurile Islands

2 KJN eP 13 13 36
SOD eP 13 14 15

2 KJN eP 14 18 21
KEV eP 14 18 08
H: 14 05 34.4
15.3 N, 147.2 E, 55 km
Mariana Islands

2 NUR iP 17 49 19.6 0.8 34.6
KJN iP 17 48 52.5 1.0 19.6
iPcP 49 53.0
OUL iP 17 48 48.9
ePcP 49 51

cont.

SOD eP 17 48 33
iPcP 49 42.9
KEV eP 17 48 18
H: 17 39 21.9
56.2 N, 162.4 E, depth N
Kamchatka

2 KJN eP 20 26 12
i 28.7
SOD eP 20 26 16
KEV ePS 20 38 32
eSS 43 54
H: 20 12 44.4
2.6 S, 126.6 E, 28 km (D)
Ceram Sea

3 NUR i 00 40 22.9
iPKP 41 01.0 0.8 27.4
ePP 38
ePPP 44 00
eSKS 47 37
eSKKS 48 34
ePS 51 06
eSPP 52 22
eSS 57 36
KJN eP 00 36 48 0.9 12.5
i 39 59.0
iPKP 40 54.8
ePP 41 19
eSKS 47 25
ePKKP 52 07
OUL iP 00 36 48.9
i 39 56.9
iPKP 40 55.1
ePP 41 23
ePKKP 52 04
SOD eP 00 36 42
i 39 42.5
ePKP 40 53
ePP 41 14
eSKS 47 18
e 39
ePKKP 52 08
KEV iP 00 36 36.0
e 39 31
ePP 41 00
ePPP 43 06
eSKS 47 14
ePS 50 08
ePPS 58
eSS 55 54
H: 00 22 32.0
4.2 S, 153.0 E, 65 km
New Ireland

August

August

August							August							
					T	A						T	A	
3	NUR	iP	04 31	04.2 U	0.7	43.9	4	NUR	ePKP	01 37	12			
	KJN	iP	04 30	49.2 U	0.9	74.1			eSKP		39 56			
	OUL	iP	04 30	52.3 U				KJN	ePKP	01 37	03			
	SOD	iP	04 30	46.6 U					eSKP		39 46			
	KEV	iP	04 30	41.7 U				SOD	eSKP	01 39	38			
	H: 04 19 41.4							H: 01 18 49.4						
	24.9 N, 123.2 E, 62 km							23.6 S, 179.7 E, 590 km						
	Southwestern Ryukyu Islands							South of Fiji Islands						
3	NUR	iP	07 58	58.2	0.7	68.4	4	NUR	eP	02 11	31			
		i		59 11.0	0.6	46.3		KJN	iP	02 11	29.1	0.9	4.5	
		e	08 00	33				OUL	eP	02 11	35			
		eS		07 46				SOD	eP	02 11	36			
		eScS		08 48				KEV	eP	02 11	40			
	KJN	iP	07 58	34.3 U	0.8	46.9		H: 01 59 17.4						
		i		46.4				0.4 N, 98.7 E, 67 km						
	OUL	iP	07 58	31.7				Northern Sumatra						
		i		32.6										
		i		45.0				4	NUR	eP	03 05	30		
	SOD	iP	07 58	19.2				KJN	iP	03 05	25.9	0.7	4.8	
		i		32.7				SOD	eP	03 05	28			
	KEV	iP	07 58	06.9	0.8	43.2		H: 02 53 02.0						
		i		19.9				7.1 S, 117.2 E, 599 km						
		ePP	08 00	22				Bali Sea						
		eS		06 04				4	NUR	ePKP	03 15	05		
		e		46				KJN	ePKP	03 15	04			
		eScS		07 56				OUL	ePKP	03 15	04			
		eSS		10 14				H: 02 56 11.9						
	H: 07 48 11.4							23.9 S, 177.4 W, 263 km						
	45.4 N, 151.8 E, 13 km							South of Fiji Islands						
	Kurile Islands													
3	SOD	eP	11 06	11			4	NUR	iP	10 34	16.9 U	1.1	92.8	
	H: 10 57 09.7								i		36.0			
	60.0 N, 153.5 W, 135 km								ePPP		38 28			
	Southern Alaska								eS		43 06			
3	NUR	eP	23 57	48					eSS		47 36			
	KJN	iP	23 58	15.6	0.7	6.9			eSSS		50 44			
	OUL	iP	23 58	25.0				KJN	iP	10 33	51.6 U	1.2	68.8	
		i		31.0					i		34 10.7			
	SOD	iP	23 58	43.7					eS		42 19			
	KEV	eP	23 59	03					eP'P'	11 02	54			
	H: 23 51 10.2							OUL	iP	10 33	46.8			
	27.6 N, 33.9 E, depth N								i		34 05.6			
	United Arab Republic								iPcP		31.6			
									eP'P'	11 02	50			
4	KJN	eP	00 32	06	0.7	4.1		SOD	iP	10 33	31.3 U			
	OUL	iP	00 32	11.2					e		49			
	SOD	iP	00 32	12.2					eP'P'	11 02	55			
	KEV	eP	00 32	15				KEV	iP	10 33	16.0	1.2	25.7	
								cont.						

August

August

			T	A	
	ePP	35	28		
	ePPP	36	40		
	eS	41	08		
	ePS		28		
	eSS	45	10		
	H: 10 23 28.9				
	51.4 N, 179.6 W, 41 km				
	Andreanof Islands				
4	KJN eP	13	55	33	
	SOD eP	13	55	33	
	H: 13 47 00.7				
	35.7 N, 36.7 W, depth N				
	North Atlantic Ridge				
4	NUR iP	15	15	15.1	
	epPKP	16	10		
	e		44		
	KJN ePKP	15	15	11	
	OUL ePKP	15	15	10	
	H: 14 56 03.8				
	30.0 S, 178.7 W, 207 km				
	Kermadec Islands				
4	NUR iP	17	32	08.9	1.0 22.0
	i			20.2	
	i	33	25.9		
	epP	34	04		
	i			30.2	
	i	35	21.8		
	iPP	36	20.7		
	e	38	26		
	e	39	04		
	iSKS	41	55.0		
	i	42	30.8		
	iS		52.7		
	iSP	44	27.0		
	iPKKP	48	23.1		
	e	50	06		
	eP'P'	56	30		
	e	58	36		
KJN	iP	17	32	01.0 U	1.0 152.6
	i			19.9	
	i	33	22.7		
	ipP			56.9	
	e	35	08		
	ePP	36	08		
	iSKS	41	46.5		
	i	42	17.8		
	eS		35		
	iPKKP	48	29.8		
	eP'P'	56	34		
	i	58	45.1		
	cont.				

				T	A
	OUL iP	17	32	03.4 U	
	i			12.5	
	i	33	27.6		
	ipP			59.7	
	isP	34	51.4		
	i	35	40.0		
	ePP	36	07		
	iS	42	41.4		
	iSP	44	10.5		
	iPKKP	48	27.4		
	iP'P'	56	40.7		
SOD	iP	17	32	01.7 U	
	ipP	33	55.0		
	e	35	14		
	eSKS	41	46		
	iPKKP	48	28.7		
	eP'P'	56	38		
KEV	eP	17	32	00	
	epP	33	54		
	esPP	38	42		
	eSKS	41	46		
	eS	42	32		
	eSP	43	50		
	e	45	28		
	e	48	00		
	eSS	49	34		
	e	53	00		
	H: 17 19 19.6				
	5.7 S, 125.3 E, 521 km				
	Banda Sea				
4	NUR eSKS	22	15	40	
	ePS		19	24	
	KJN ePKP	22	08	46	
	SOD ePKP	22	08	45	
	KEV ePS	22	19	42	
	H: 21 50 02.3				
	26.9 S, 70.9 W, depth N				
	Northern Chile				
5	NUR iP	02	26	27.0 U	1.2 39.9
	i			34.3	
	i			41.4	
	i			58.0	
	ePP	30	26		
	e	33	48		
	iSKS	37	09.7		
	iS		47.1		
	ePS	39	02		
	ePKKP	43	26		
	i	44	09.0		
	eSS		50		
	i	48	03.9		
	cont.				

August

August

				T	A
KJN	iP'P'	51	35.7		
	iP	02	26	17.8	U
	i			24.4	
	i			31.5	
	e	34	46		
	eSKS	36	56		
	eS	37	19		
	e		30		
	iPKKP	43	35.3		
	iP'P'	51	46.3		
OUL	iP	02	26	20.3	U
	i			29.1	
	iPKKP	43	29.6		
	iP'P'	51	50.1		
SOD	iP	02	26	17.4	U
	i			27.1	
	ePP	30	12		
	eSKS	36	54		
	e	37	28		
	ePKKP	43	32		
	eP'P'	51	43		
KEV	iP	02	26	15.4	U 1.7 156.0
	i			22.1	
	i			29.8	
	ePP	30	08		
	e	36	08		
	eSKS		52		
	e	37	25		
	ePS	38	24		
	ePKKP	43	33		
	eSS		36		
H: 02 13 09.6					
1.3 N, 126.2 E, 34 km					
Molucca Passage					
5	KJN	eP	02	57	39
	SOD	eP	02	57	34
5	KJN	eP	02	59	29
	SOD	eP	02	59	27
5	KJN	eP	03	18	14
5	NUR	eP	03	34	12
	KJN	iP	03	33	59.5 0.7 6.2
	OUL	eP	03	34	02
	SOD	iP	03	33	58.8
	KEV	eP	03	33	56 0.7 5.2
H: 03 20 52.4					
1.2 N, 126.3 E, 47 km					
Molucca Passage					

				T	A
5	NUR	e	07	04	57
	KJN	eP	07	04	41
	OUL	eP	07	04	43
	SOD	eP	07	04	41
	KEV	eP	07	04	38
		eSKS		15	08
		eSS		21	54
H: 06 51 32.8					
1.3 N, 126.3 E, 37 km					
Molucca Passage					
5	KJN	eP	09	33	27
	SOD	eP	09	33	27
H: 09 20 18.8					
1.3 N, 126.3 E, depth N					
Molucca Passage					
5	NUR	eP	13	16	44
		eSKS		27	18
		eS			56
		ePS		29	12
		ePPS			56
		eSS		35	16
	KJN	iP	13	16	34.3
	OUL	eP	13	16	37
	SOD	eP	13	16	33
	KEV	eP	13	16	32
		eS		27	28
		eSS		33	30
H: 13 03 23.3					
1.3 N, 126.4 E, 18 km					
Molucca Passage					
5	NUR	eP	16	47	02
		e		50	30
		ePKP			55
		ePP		51	44
		e		52	54
		eSKS		57	32
		e			54
		ePS	17	01	04
		ePKKP		02	07
		eSS		07	30
		eSSS		11	46
	KJN	iP	16	46	48.2 0.7 7.5
		ePP		51	25
		i			38.8
		ePKKP	17	02	06
	OUL	eP	16	46	49
		i			51.4
cont.					

August

August

			T	A
	ePKP	50 57		
	i	51 48.6		
	ePKKP	17 02 08		
	i	26.8		
SOD	eP	16 46 42		
	ePP	51 11		
	ePKKP	17 01 58		
	H:	16 32 25.8		
		5.2 S, 153.8 E, 69 km		
		New Ireland		
5	NUR	iPKP	18 03 10.5	
	KJN	iPKP	18 03 02.7	
	OUL	iPKP	18 03 02.3	
	H:	17 44 01.1		
		20.6 S, 169.4 E, 66 km		
		New Hebrides Islands		
5	NUR	iP	18 29 54.6	0.9 38.6
	KJN	iP	18 29 35.6 U	0.8 5.4
	OUL	iP	18 29 35.9	
	SOD	iP	18 29 26.8 U	
	H:	18 18 19.6		
		29.9 N, 140.8 E, 124 km		
		South of Honshu, Japan		
5	NUR	iP	18 45 27.3	0.7 9.0
		ipP	54.5	
		isP	46 07.9	
	KJN	iP	18 45 06.4 U	0.7 34.2
		epP	34	
	OUL	eP	18 45 06	
		ipP	33.3	
	SOD	iP	18 44 55.9	
		epP	45 23	
	H:	18 34 33.3		
		37.5 N, 140.6 E, 130 km		
		Honshu, Japan		
5	KJN	eP	21 41 43	
	SOD	eP	21 41 42	
	H:	21 28 31.9		
		1.2 N, 126.3 E, 18 km		
		Molucca Passage		
6	NUR	iP	00 22 25.4	0.7 12.9
	KJN	iP	00 22 15.0	0.9 29.5
	OUL	iP	00 22 14.2	
6	NUR	eP	00 48 36	
	KJN	eP	00 48 09	
	OUL	eP	00 48 00	

cont.

			T	A
	SOD	eP	00 47 44	
	H:	00 38 42.8		
		61.4 N, 150.7 W, 53 km		
		Southern Alaska		
6	NUR	iP	08 52 00.3	
	OUL	eP	08 51 40	
	SOD	iP	08 51 31.7	
	H:	08 40 32.2		
		32.5 N, 140.6 E, 67 km		
		South of Honshu, Japan		
6	NUR	eP	09 02 21	
	KJN	eP	09 02 02	
	SOD	eP	09 01 52	
	H:	08 50 53.3		
		32.5 N, 140.6 E, 67 km		
		South of Honshu, Japan		
6	SOD	eP	14 51 06	
6	KJN	iPKP	15 18 22.6	
	OUL	ePKP	15 18 23	
	H:	14 59 23.7		
		58.0 S, 25.4 W, 65 km (D)		
		South Sandwich Islands		
6	NUR	eP	15 52 59	
		ePP	55 34	
		eS	16 02 08	
		eSS	06 30	
	KJN	eP	15 53 11	1.4 24.3
	OUL	iP	15 53 09.1	
	SOD	iP	15 53 14.3	
	KEV	iP	15 53 19.0	0.9 26.9
		i	22.1	
		eS	16 02 44	
		ePS	03 12	
		e	04 58	
		eSS	07 28	
	H:	15 41 50.4		
		10.8 N, 43.2 W, depth N		
		North Atlantic Ridge		
7	NUR	iP	02 02 09.9	
		eS	05 41	
	KJN	eP	02 02 40	
		eS	06 45	
	OUL	eP	02 02 56	
	SOD	e	02 03 21	
	H:	01 57 34.7		
		41.5 N, 36.8 E, depth N		
		Turkey		

August

August

				T	A					T	A	
7	NUR	ePP	02 08 42			8	NUR	iP	06 37 55.2 U	0.6	580.0	
		ePS	18 16					ipP	38 37.5			
		eSS	24 28					esP	58			
		eSSS	28 26					ePP	39 22			
	OUL	ePKP	02 07 53					isPP	40 19.6			
	KEV	ePP	02 08 04					iS	43 31.6			
		esPP	42					esS	44 44			
		eSKS	14 04				KJN	iP	06 37 55.2 U	0.9	501.9	
		e	50					ipP	38 36.0			
		eSP	17 06					iS	43 31.8			
		ePPS	18 32					OUL	iP	06 38 04.9 U		
		eSS	22 44					ipP	43.8			
	H: 01 49 33.2							SOD	iP	06 38 11.8 U		
	5.3 S, 154.1 E, 116 km							epP	53			
	Solomon Islands							ePP	39 38			
								ePPP	40 35			
7	NUR	iP	06 56 21.4	0.7	7.7			eS	44 00			
	KJN	iP	06 55 55.4	0.8	10.0			esS	45 11			
	OUL	iP	06 55 51.8					KEV	iP	06 38 20.4 U	0.8	432.0
	SOD	iP	06 55 36.5					i	42.1			
	KEV	eP	06 55 21	0.8	8.6			ipP	39 01.7			
	H: 06 46 08.3							esP	22			
	52.2 N, 158.9 E, 69 km (D)							ePP	56			
	Kamchatka							epPP	40 30			
								ePPP	40			
7	NUR	ePKP	09 51 22					e	44 10			
	KJN	ePKP	09 51 14					eS	17			
	OUL	ePKP	09 51 14					esS	45 38			
	SOD	ePKP	09 51 10					eSS	47 22			
	H: 09 33 09.1							H: 06 30 57.1				
	20.6 S, 178.6 W, 630 km							36.4 N, 70.9 E, 198 km (D)				
	Fiji Islands							Hindu Kush				
7	NUR	eP	15 42 26			8	NUR	eP	08 44 22			
		ePcP	59									
	KJN	iP	15 42 02.9	0.9	8.0							
	OUL	iP	15 42 00.8			8	NUR	eP	11 13 20			
	SOD	iP	15 41 48.7				KJN	eP	11 12 47			
		ePcP	42 36				OUL	eP	11 12 34			
	KEV	eP	15 41 35				SOD	eP	11 12 14			
	H: 15 32 02.5						KEV	eP	11 11 56			
	45.2 N, 148.3 E, 152 km											
	Kurile Islands											
8	NUR	eP	05 14 51			8	NUR	eSKKS	11 34 32			
	KJN	eP	05 14 41	0.8	6.2			eS	35 26			
	OUL	eP	05 14 43					ePS	37 08			
	SOD	eP	05 14 41					eSS	43 06			
	H: 05 02 01.5							eSSS	47 08			
	7.2 N, 125.7 E, 52 km							KJN	ePKP	11 26 54		
	Mindanao, P.I.							ePP	28 00			
								i	06.8			
								cont.				

August				August			
			T	A		T	A
	OUL	iP	23 04	16.4 U			
		iPcP		56.6			
	SOD	iP	23 04	04.8			
		ePcP		49			
	KEV	eP	23 03	51			
		iPcP	04	43.0			
	H: 22 54 00.4						
	44.0 N, 148.3 E, 59 km						
	Kurile Islands						
11	NUR	eP	23 07	54			
	KJN	eP	23 07	30			
	OUL	eP	23 07	29			
		i		35.3			
	SOD	eP	23 07	17			
		i		27.0			
11	NUR	iP	23 08	15.7	0.8	18.5	
	KJN	iP	23 07	52.6			
	OUL	iP	23 07	50.7 U			
	SOD	iP	23 07	39.5			
	KEV	iP	23 07	27.7	0.7	9.0	
11	NUR	iP	23 09	45.2	0.8	28.8	
	KJN	iP	23 09	21.8	0.8	22.3	
	OUL	iP	23 09	20.4			
		i		31.1			
	SOD	iP	23 09	08.9			
		i		19.7			
	KEV	iP	23 08	57.0	0.7	11.6	
		i	09	08.9			
11	NUR	eP	23 10	40			
	KJN	eP	23 10	17			
	OUL	eP	23 10	19			
		i		29.4			
	SOD	eP	23 10	04			
	KEV	eP	23 09	53			
11	NUR	eP	23 11	45			
	OUL	eP	23 11	20			
	SOD	eP	23 11	08			
11	NUR	iP	23 13	42.5	0.9	90.7	
	KJN	iP	23 13	20.0	0.8	78.4	
	OUL	iP	23 13	17.6 U			
	SOD	iP	23 13	05.5			
		ePcP		48			
	KEV	iP	23 12	52.8	0.9	67.2	
	H: 23 02 53.8						
	43.1 N, 147.8 E, depth N						
	Kurile Islands						
11	NUR	iP	23 23	00.3			
	KJN	eP	23 22	37	0.8	8.5	
		e		47			
	OUL	iP	23 22	36.0			
		i		46.0			
	SOD	eP	23 22	24			
11	NUR	eP	23 25	38	1.0	24.0	
	KJN	eP	23 25	15			
	OUL	iP	23 25	13.7			
		i		23.4			
	SOD	iP	23 25	02.0			
		e		11			
	H: 23 14 51.1						
	43.4 N, 147.6 E, depth N						
	Kurile Islands						
11	NUR	iP	23 27	33.8	0.5	11.9	
		i		45.0			
	KJN	iP	23 27	10.5	0.6	9.6	
	OUL	iP	23 27	08.5			
		i		20.1			
	SOD	iP	23 26	56.5			
		i		27 18.9			
	KEV	eP	23 26	45			
	H: 23 16 46.3						
	43.0 N, 146.4 E, depth N						
	Kurile Islands						
11	NUR	iP	23 29	35.0			
	KJN	eP	23 29	11			
	OUL	iP	23 29	10.0			
	SOD	eP	23 28	57			
11	NUR	iP	23 29	49.0	1.1	57.1	
	KJN	eP	23 29	25			
	OUL	iP	23 29	23.6 U			
		iPcP		30 00.2			
	SOD	iP	23 29	10.6 U			
	KEV	iP	23 28	59.0			
	H: 23 19 00.2						
	43.4 N, 148.3 E, depth N						
	Kurile Islands						
11	NUR	iP	23 32	30.0			
		ePcP		59			
	KJN	iP	23 32	07.0			
		i		18.2			
	OUL	iP	23 32	04.7			
		iPcP		44.0			

cont.

August					August				
			T	A			T	A	
	SOD	iP	23 31	53.1		SOD	eP	23 49 40	
		i	32	04.6		KEV	iP	23 49 28.5	
	KEV	iP	23 31	44.0		H:	23 39 29.0		
		i		52.7			42.9 N, 146.7 E, depth N		
	H:	23 21	43.1				Hokkaido, Japan		
			43.4 N, 147.5 E, depth N						
			Kurile Islands		11	NUR	iP	23 52 48.7	
11	NUR	eP	23 35 21	0.8 18.7		KJN	iP	23 52 24.5	
	KJN	eP	23 34 58			OUL	iP	23 52 22.7 U	
	OUL	iP	23 34 57.4			SOD	iP	23 52 10.9	
		i	35 06.8				ePcP	55	
	SOD	eP	23 34 43			KEV	iP	23 51 58.6	
	KEV	eP	23 34 33			H:	23 42 03.5		
	H:	23 24	31.3				43.7 N, 147.8 E, 43 km		
			43.0 N, 147.3 E, depth N				Kurile Islands		
			Kurile Islands		11	NUR	iP	23 58 56.0	
11	NUR	iP	23 40 51.1			KJN	iP	23 58 33.0	
	KJN	eP	23 40 26			OUL	iP	23 58 30.8	
	OUL	eP	23 40 26			SOD	eP	23 58 18	
	SOD	eP	23 40 14			KEV	iP	23 58 06.1	
11	NUR	iP	23 44 56.8	0.9 50.4	11	NUR	eP	23 59 35	
	KJN	iP	23 44 33.0	0.8 30.8		KJN	iP	23 59 11.9	
	OUL	iP	23 44 30.9			OUL	iP	23 59 09.5 U	
	SOD	iP	23 44 18.0			SOD	eP	23 58 56	
	KEV	eP	23 44 05	0.9 23.5		H:	23 48 48.9		
	H:	23 34	08.4				43.7 N, 147.9 E, depth N		
			43.3 N, 148.0 E, 32 km				Kurile Islands		
			Kurile Islands		11	NUR	iP	23 59 54.0	
11	NUR	iP	23 46 56.0 U	0.7 18.1		OUL	iP	23 59 29.2	
		i	47 05.0			SOD	eP	23 59 17	
		i	41.5				e	29	
	KJN	iP	23 46 32.3	0.8 11.5		KEV	iP	23 59 05.0	
		i	42.0				i	16.9	
	OUL	iP	23 46 30.6		12	NUR	iP	00 02 48.3	
		i	40.1			KJN	eP	00 02 25	
		ePcP	47 11			OUL	eP	00 02 23	
	SOD	iP	23 46 18.9			SOD	eP	00 02 11	
		i	28.5		12	NUR	eP	00 03 47	
		ePcP	47 05			KJN	eP	00 03 25	
	KEV	iP	23 46 06.7	0.8 11.5		OUL	eP	00 03 22	
		i	16.1			SOD	iP	00 03 12.0	
	H:	23 36	15.0		12	NUR	eP	00 06 12	
			44.5 N, 147.4 E, depth N				eSKS	16 46	
			Kurile Islands				eS	17 20	
11	NUR	iP	23 50 16.6	0.9 26.9	12	NUR	eP	00 06 12	
	KJN	iP	23 49 52.0	0.9 17.9			eSKS	16 46	
	OUL	iP	23 49 52.5				eS	17 20	
			cont.					cont.	

August				August							
			T	A			T	A			
KJN	eP	00 06 01			12	NUR	eP	00 40 15	0.9	11.8	
	iSKS	16 36.0				KJN	eP	00 39 51	0.8	7.7	
	iS	17 04.0				OUL	iP	00 39 50.3			
	ePKKP	23 20				SOD	iP	00 39 38.8			
OUL	iP	00 06 04.8				KEV	eP	00 39 26			
	eSKS	16 40				H: 00 29 29.5					
	iS	17 14.8				43.7 N, 147.2 E, depth N					
	ePKKP	23 19				Kurile Islands					
SOD	iP	00 06 02.0			12	NUR	iP	00 50 10.7			
	iPKKP	23 24.0				KJN	iP	00 49 47.3	0.9	6.3	
KEV	iP	00 06 00.8				OUL	eP	00 49 45			
	eSKS	16 32									
	eS	17 01									
H: 23 52 56.9											
1.7 N, 126.5 E, 34 km											
Molucca Passage											
12	NUR	eP	00 18 37			12	NUR	eP	00 51 52	0.6	8.8
	OUL	iP	00 18 12.4				KJN	iP	00 51 28.9	0.6	6.9
	SOD	eP	00 18 01				OUL	iP	00 51 27.2		
12	NUR	iP	00 22 08.8				SOD	iP	00 51 15.5		
	KJN	eP	00 21 46				KEV	eP	00 51 03		
	SOD	iP	00 21 32.4			12	NUR	eP	01 00 45		
12	NUR	eP	00 26 13	0.9	26.9		KJN	iP	01 00 34.5	0.7	6.9
	KJN	eP	00 25 49	0.6	12.3			e	01 01 27		
	OUL	iP	00 25 48.7				OUL	eP	01 00 38		
	SOD	eP	00 25 34					i	41.4		
		i	48.0				SOD	eP	01 00 34		
	KEV	iP	00 25 24.2				KEV	eP	01 00 32		
H: 00 15 28.4							H: 00 47 30.3				
43.7 N, 147.7 E, 29 km							1.8 N, 126.2 E, 54 km				
Kurile Islands							Molucca Passage				
12	OUL	eP	00 28 19			12	NUR	eP	01 02 15		
12	NUR	iP	00 29 52.9				KJN	eP	01 02 09	1.0	13.1
	KJN	iP	00 29 30.2				OUL	iP	01 02 18.0		
	OUL	eP	00 29 27					i	24.6		
	SOD	eP	00 29 17				SOD	eP	01 02 20		
H: 00 19 09.3							KEV	iP	01 02 25.4		
43.1 N, 146.7 E, 63 km							H: 00 53 45.0				
Kurile Islands							32.3 N, 83.0 E, 39 km				
12	NUR	iP	00 36 29.0	0.8	40.3		Tibet				
	KJN	iP	00 36 05.8 U	0.8	36.1	12	NUR	iP	01 04 23.2	0.9	60.5
	OUL	iP	00 36 03.2 U					e	34		
	SOD	iP	00 35 50.5				KJN	iP	01 04 00.6	1.0	45.8
	KEV	iP	00 35 38.4	0.5	11.9			i	11.2		
		iPcP	36 28.0				OUL	iP	01 03 58.5		
H: 00 25 45.4								i	04 09.4		
44.5 N, 148.7 E, 36 km							SOD	iP	01 03 46.0		
Kurile Islands							KEV	eP	01 03 34		
						H: 00 53 36.0					
						43.4 N, 147.3 E, 30 km					
						Kurile Islands					

August						August						
				T	A					T	A	
12	NUR	iP	01 06 17.6	0.7	15.5	KJN	iP	01 38 49.8	1.0	21.8		
		e	27			OUL	iP	01 38 47.4				
	KJN	iP	01 05 55.4	0.5	11.0	SOD	iP	01 38 34.9				
	OUL	iP	01 05 53.6			KEV	eP	01 38 22				
		i	06 02.8			H: 01 28 22.0						
	SOD	iP	01 05 40.5			43.0 N, 147.7 E, depth N						
	KEV	eP	01 05 28			Kurile Islands						
12	NUR	eP	01 13 53	1.1	28.6	12	NUR	iP	01 45 43.2			
		i	14 04.0			KJN	iP	01 45 19.9				
	KJN	iP	01 13 30.2	1.1	24.3	OUL	eP	01 45 18				
	OUL	iP	01 13 28.4			SOD	eP	01 45 06				
		i	39.6			H: 01 34 57.4						
	SOD	iP	01 13 16.7			43.6 N, 147.5 E, depth N						
		e	26			Kurile Islands						
	KEV	eP	01 13 05			12	NUR	iP	01 53 34.8	0.8	13.0	
	H: 01 03 07.3					KJN	iP	01 53 11.6				
	43.5 N, 147.2 E, depth N					OUL	iP	01 53 09.9				
	Kurile Islands					SOD	eP	01 52 58				
12	NUR	iP	01 14 12.8			12	NUR	iP	01 55 11.2	0.8	14.4	
		i	24.0			KJN	iP	01 55 10.0	0.7	12.3		
	KJN	iP	01 13 50.3			OUL	iP	01 55 15.4				
		i	14 00.7			SOD	eP	01 55 18				
	OUL	iP	01 13 47.4			12	NUR	iP	02 05 24.0	0.7	9.0	
		i	59.2					i	35.5			
	SOD	iP	01 13 36.0			KJN	iP	02 05 00.9	0.6	6.9		
		i	46.8			OUL	iP	02 04 59.0				
	KEV	iP	01 13 24.0	1.0	28.0	SOD	iP	02 04 46.6 U				
12	NUR	eP	01 21 00			H: 01 54 34.9						
	KJN	eP	01 20 36			43.5 N, 148.0 E, depth N						
	OUL	eP	01 20 34			Kurile Islands						
12	NUR	iP	01 23 10.0	0.9	10.1	12	NUR	eP	02 06 43	0.7	9.0	
		e	20			KJN	eP	02 06 20				
	KJN	iP	01 22 46.8	0.9	8.0	OUL	eP	02 06 18				
	OUL	iP	01 22 44.5			SOD	eP	02 06 03				
	SOD	eP	01 22 32			H: 01 55 56.0						
	H: 01 12 24.7					43.7 N, 148.3 E, depth N						
	44.0 N, 148.1 E, depth N					Kurile Islands						
12	NUR	iP	01 23 37.0			12	NUR	iP	02 17 30.1	0.9	10.1	
	OUL	iP	01 23 11.9			KJN	eP	02 17 06				
12	NUR	eP	01 29 15			OUL	iP	02 17 05.4				
	KJN	eP	01 28 52			SOD	eP	02 16 52				
	OUL	eP	01 28 49			KEV	eP	02 16 40				
	SOD	iP	01 28 37.6			H: 02 06 41.7						
12	NUR	eP	01 39 12	0.9	20.2	43.3 N, 147.4 E, depth N						
	cont.					Kurile Islands						

August				August			
		T	A			T	A
12	NUR eP 02 30 08 KJN eP 02 29 44 OUL eP 02 29 42 H: 02 19 21.8 43.8 N, 148.4 E, 38 km Kurile Islands			12	NUR iP 03 01 47.0 KJN eP 03 01 23 OUL eP 03 01 21 SOD eP 03 01 09		
12	NUR eP 02 35 05 KJN iP 02 34 55.9 OUL iP 02 35 00.6 SOD eP 02 34 57 KEV eP 02 34 53 H: 02 21 53.0 1.7 N, 126.3 E, 67 km Molucca Passage	0.8	5.4	12	NUR iP 03 04 22.7 KJN eP 03 03 59 OUL eP 03 03 57 SOD iP 03 03 45.8		
12	NUR eP 02 42 03 KJN eP 02 41 39 OUL iP 02 41 37.0			12	NUR eP 03 16 17 KJN eP 03 15 53		
12	NUR eP 02 41 56 KJN eP 02 41 46 OUL iP 02 41 54.4 SOD eP 02 41 48 H: 02 28 42.1 1.7 N, 126.5 E, 52 km Molucca Passage			12	NUR eP 03 19 51 KJN eP 03 19 26 OUL iP 03 19 26.4 SOD eP 03 19 14 H: 03 09 08.7 44.6 N, 148.5 E, depth N Kurile Islands		
12	NUR eP 02 45 30 KJN iP 02 45 07.8 OUL eP 02 45 05 SOD eP 02 44 53 H: 02 34 42.1 43.0 N, 147.2 E, depth N Kurile Islands			12	NUR eP 03 29 30 H: 03 18 45.7 44.7 N, 148.2 E, depth N Kurile Islands		
12	NUR iP 02 47 37.6 KJN eP 02 47 14 OUL iP 02 47 11.9 i 22.0 SOD iP 02 46 59.3 KEV eP 02 46 48 H: 02 36 51.5 43.9 N, 148.3 E, depth N Kurile Islands	0.6	18.8	12	KJN iP 03 29 36.0 OUL iP 03 29 34.0 SOD eP 03 29 21 KEV eP 03 29 08		
12	NUR eP 02 55 40 KJN eP 02 55 14 SOD eP 02 55 02 H: 02 44 47.8 42.7 N, 147.4 E, depth N Hokkaido, Japan	0.7	20.6	12	NUR eP 03 41 09 KJN eP 03 40 46 H: 03 30 22.5 43.6 N, 148.1 E, depth N Kurile Islands		
				12	NUR iP 03 44 26.6 e 36 KJN iP 03 44 03.8 U i 13.9 i 34.0 OUL iP 03 44 02.0 i 12.4 SOD iP 03 43 49.4 U i 44 01.0 KEV iP 03 43 38.0 i 49.0	1.1	83.3
						0.8	30.8
						0.7	14.2
					H: 03 33 37.2 43.1 N, 147.6 E, depth N Kurile Islands		

August						August					
				T	A					T	A
12	NUR	iP	05 25	14.2							
	KJN	eP	05 24	51							
	OUL	eP	05 24	49							
12	NUR	eP	05 30	34							
	KJN	eP	05 30	10							
	OUL	eP	05 30	08							
12	NUR	eP	05 35	17							
	KJN	eP	05 34	54							
	SOD	eP	05 34	40							
12	NUR	eP	05 58	06							
	KJN	eP	05 57	43							
	OUL	eP	05 57	40							
	SOD	eP	05 57	28							
	H: 05 47		16.9								
	43.2 N, 147.2 E, depth N										
	Kurile Islands										
12	NUR	iP	06 04	15.3	1.0	164.0					
		eS	13	04							
	KJN	eP	06 03	51	0.8	112.3					
		i	54.7								
		eS	12	18							
	OUL	iP	06 03	49.9							
	SOD	iP	06 03	36.6							
		i	45.0								
	KEV	eP	06 03	26	0.6	25.0					
	H: 05 53		28.2								
	43.7 N, 148.5 E, depth N										
	Kurile Islands										
12	NUR	iP	06 11	03.8							
	KJN	eP	06 10	40							
	OUL	iP	06 10	38.4							
	SOD	iP	06 10	27.1							
	H: 06 00		16.4								
	43.2 N, 147.3 E, depth N										
	Kurile Islands										
12	NUR	eP	06 41	45							
	KJN	eP	06 41	22							
	OUL	eP	06 41	20							
	SOD	iP	06 41	09.0							
	H: 06 30		53.6								
	42.8 N, 146.3 E, 13 km										
	Hokkaido, Japan										
12	NUR	iP	06 49	37.7 D	0.9	67.2					
	KJN	iP	06 49	14.1	0.6	26.0					
			cont.								
	OUL	iP	06 49	12.4 D							
		i		21.0							
		ePcP		47							
	SOD	eP	06 49	00							
	KEV	eP	06 48	48	0.8	18.7					
	H: 06 38		49.0								
	43.1 N, 147.5 E, depth N										
	Kurile Islands										
12	NUR	eP	06 53	44							
	KJN	eP	06 53	21							
	OUL	eP	06 53	18							
	SOD	eP	06 53	07							
	H: 06 42		55.5								
	43.1 N, 147.0 E, depth N										
	Kurile Islands										
12	NUR	eP	07 00	18							
	KJN	eP	06 59	55							
	OUL	eP	06 59	53							
	SOD	iP	06 59	42.2							
	H: 06 49		30.3								
	42.9 N, 146.7 E, depth N										
	Hokkaido, Japan										
12	NUR	eP	07 08	23							
	KJN	eP	07 08	03							
12	NUR	eP	07 13	34							
	KJN	eP	07 13	13							
	OUL	eP	07 13	10							
	SOD	eP	07 12	59							
12	NUR	iP	07 14	34.0	1.0	30.0					
	KJN	iP	07 14	11.0	1.0	20.7					
	OUL	iP	07 14	08.7							
	SOD	iP	07 13	56.3							
	KEV	eP	07 13	44							
	H: 07 03		45.2								
	43.2 N, 147.6 E, depth N										
	Kurile Islands										
12	NUR	iP	07 17	43.1 U	0.9	20.2					
		i		54.9							
	KJN	iP	07 17	19.7	0.8	13.1					
		i		32.0							
	OUL	iP	07 17	18.1 U							
		i		30.0							
	SOD	iP	07 17	06.2 U							
	KEV	iP	07 16	54.1	0.8	13.0					

August							August							
				T	A					T	A			
12	NUR	iP	07 21 27.2	0.5	31.7	12	NUR	eP	08 52 37					
		i	38.2					H:	08 41 50.0					
	KJN	iP	07 21 04.0	0.5	19.1				43.7 N, 148.4 E, 33 km					
		ePcP	44						Kurile Islands					
	OUL	iP	07 21 02.4											
	SOD	iP	07 20 50.1											
	KEV	iP	07 20 38.0											
		H:	07 10 41.4											
			43.7 N, 147.9 E, depth N											
			Kurile Islands											
12	NUR	eP	07 48 55			12	NUR	eP	09 26 38					
	KJN	iP	07 48 32.8	0.8	9.2		KJN	eP	09 26 15					
	OUL	iP	07 48 29.6				OUL	iP	09 26 13.3					
	SOD	eP	07 48 17				SOD	eP	09 26 01					
		H:	07 38 10.7											
			43.9 N, 147.7 E, depth N											
			Kurile Islands											
12	NUR	eP	07 51 50			12	NUR	iP	09 31 57.2	0.8	10.1			
	KJN	eP	07 51 27				KJN	eP	09 31 34					
	OUL	eP	07 51 25				OUL	iP	09 31 32.1					
	SOD	eP	07 51 14				SOD	eP	09 31 20					
		H:	07 41 00.4					H:	09 21 07.8					
			42.9 N, 147.0 E, depth N						43.1 N, 147.3 E, 32 km					
			Hokkaido, Japan						Kurile Islands					
12	NUR	eP	08 02 10			12	NUR	iP	09 34 26.8					
	KJN	eP	08 01 47				OUL	eP	09 33 59					
	OUL	eP	08 01 44											
12	NUR	iP	08 05 37.7	0.9	25.2	12	NUR	iP	09 36 27.0 U	1.1	140.4			
	KJN	iP	08 05 14.0	0.7	14.4			i	39.5					
	OUL	iP	08 05 12.5 U					eS	45 16					
	SOD	iP	08 05 00.4					eSS	49 48					
		H:	07 54 51.0					KJN	iP	09 36 04.9	1.0	85.0		
			42.6 N, 146.6 E, 62 km					OUL	iP	09 36 03.4				
			Hokkaido, Japan						i	14.4				
12	NUR	iP	08 13 42.8	0.8	7.2			SOD	iP	09 35 50.7 U				
	KJN	iP	08 13 19.1	0.7	6.2			KEV	iP	09 35 38.6 U	0.8	20.2		
	OUL	iP	08 13 16.6						iPcP	36 28.1				
	SOD	eP	08 13 04						H:	09 25 38.7				
		ePcP	45							43.1 N, 147.6 E, depth N				
										Kurile Islands				
12	NUR	eP	08 15 43			12	NUR	iP	09 44 29.0 U	1.2	142.5			
	KJN	iP	08 15 19.6	0.7	6.2			i	45 08.2					
	OUL	iP	08 15 18.2					KJN	iP	09 44 05.3 U	1.0	55.6		
	SOD	iP	08 15 05.4					OUL	iP	09 44 03.3 U				
		H:	08 04 58.5						i	11.7				
			43.8 N, 148.5 E, 50 km						iPcP	43.1				
			Kurile Islands						SOD	iP	09 43 51.3 U			
										i	44 01.4			
										ePcP	36			
											cont.			

August				T	A	August				T	A
	KEV	iP	09 43 39.1	0.7	12.9	12	NUR	iP	11 32 07.3	1.2	131.1
		ePcP	44 30					i	09.2		
	H:		09 33 43.2					eS	40 53		
			43.6 N, 147.5 E, 34 km (D)					e	41 36		
			Kurile Islands					eSS	45 24		
12	NUR	eP	09 49 19				KJN	iP	11 31 44.0 U	1.0	92.7
								eS	40 08		
12	NUR	iP	10 02 30.6				OUL	iP	11 31 42.4		
	KJN	eP	10 02 07	0.8	6.9			i	53.4		
	OUL	iP	10 02 05.3				SOD	iP	11 31 30.8 U		
	SOD	iP	10 01 53.2					i	33.9		
	H:		09 51 43.2					ePPP	35 24		
			43.5 N, 147.3 E, depth N					ePS	39 56		
			Kurile Islands				KEV	iP	11 31 18.0	1.2	42.8
12	NUR	iP	10 05 23.5					iPcP	32 10.9		
	KJN	iP	10 05 00.7					ePPP	35 00		
	OUL	eP	10 04 58					eS	39 20		
	SOD	iP	10 04 47.1				H:		11 21 21.6		
	H:		09 54 34.6						43.9 N, 148.7 E, 29 km		
			43.0 N, 147.5 E, depth N						Kurile Islands		
			Kurile Islands			12	NUR	iP	11 38 59.7		
12	NUR	eP	10 33 32				OUL	iP	11 38 34.4		
		i	34 11.2								
	KJN	eP	10 33 08	0.8	7.7	12	NUR	iP	11 43 16.6 U	0.9	47.0
		e	46					i	26.0		
	OUL	eP	10 33 05				KJN	iP	11 42 53.7 U	1.0	39.2
		e	43					i	43 05.0		
		i	45.6				OUL	iP	11 42 51.5 U		
	SOD	iP	10 32 54.7					i	43 02.5		
		i	33 37.7				SOD	iP	11 42 39.3		
	H:		10 22 41.2					i	50.3		
			43.0 N, 147.5 E, depth N				KEV	iP	11 42 28.2	0.8	21.6
			Kurile Islands				H:		11 32 24.3		
12	NUR	iP	10 39 08.8						43.2 N, 147.6 E, 10 km		
									Kurile Islands		
12	NUR	iP	10 50 37.2			12	NUR	iP	11 44 48.8	0.8	18.7
	KJN	eP	10 50 14				KJN	eP	11 44 25	0.6	13.7
	OUL	eP	10 50 12					i	37.8		
12	NUR	iP	11 21 56.0				OUL	iP	11 44 23.2 U		
	KJN	iP	11 21 38.5				SOD	iP	11 44 11.2		
	OUL	eP	11 21 38				H:		11 34 02.0		
12	NUR	iP	11 22 40.2						44.0 N, 149.0 E, depth N		
	KJN	iP	11 22 17.2						Kurile Islands		
	OUL	iP	11 22 15.7								
	SOD	iP	11 22 03.5								
12	NUR	eP	11 27 18			12	NUR	eP	11 49 02		
	OUL	eP	11 26 51				H:		11 38 19.6		
									43.7 N, 146.0 E, depth N		
									Kurile Islands		

August						August					
				T	A						
12	NUR	eP	11 59 21			12	NUR	iP	12 42 37.7	1.0	50.0
			H: 11 48 34.3					i	48.1		
			43.7 N, 148.1 E, 38 km				KJN	eP	12 42 14		
			Kurile Islands					i	25.3		
12	NUR	eP	12 02 26				OUL	iP	12 42 13.1		
		i	47.5					i	23.4		
12	NUR	iP	12 04 36.5				SOD	iP	12 42 00.4		
			H: 11 53 49.6				KEV	iP	12 41 48.8		
			43.7 N, 148.3 E, depth N						H: 12 31 48.2		
			Kurile Islands						42.9 N, 147.8 E, 40 km		
									Hokkaido, Japan		
12	NUR	iP	12 07 39.0	0.9	11.8	12	NUR	iP	12 49 40.0		
	KJN	eP	12 07 15			12	NUR	iP	12 55 23.6		
		i	17.0				KJN	eP	12 55 01		
	OUL	iP	12 07 13.8				SOD	eP	12 54 47		
	SOD	eP	12 07 01						H: 12 44 37.4		
			H: 11 56 54.9						43.2 N, 147.5 E, depth N		
			43.9 N, 147.7 E, depth N						Kurile Islands		
			Kurile Islands			12	NUR	eP	13 08 55		
12	NUR	eP	12 14 03				KJN	iP	13 08 43.6	0.7	8.2
	KJN	eP	12 13 39				OUL	iP	13 08 46.4		
	OUL	eP	12 13 39					i	57.4		
	SOD	eP	12 13 27				SOD	iP	13 08 43.2		
			H: 12 03 13.5						H: 12 55 40.5		
			42.9 N, 147.3 E, 39 km						1.7 N, 126.2 E, 67 km		
			Hokkaido, Japan						Molucca Passage		
12	NUR	iP	12 17 53.9			12	NUR	iP	13 13 08.8		
	KJN	iP	12 17 29.5								
	OUL	iP	12 17 27.8								
	SOD	iP	12 17 16.3			12	NUR	iP	13 23 15.0		
12	NUR	iP	12 34 35.3	0.9	20.2		KJN	eP	13 22 51		
		eSKS	45 08				OUL	iP	13 22 49.6		
		eS	41				SOD	eP	13 22 37		
	KJN	iP	12 34 26.0	0.7	24.7				H: 13 12 26.0		
		ePP	38 03						43.4 N, 148.0 E, depth N		
		eSKS	44 54						Kurile Islands		
		eS	45 27								
		ePKKP	51 35			12	NUR	iP	13 27 25.1	0.6	26.3
	OUL	iP	12 34 28.7	U			KJN	iP	13 27 01.2		
		ePKKP	51 44				OUL	iP	13 26 59.7		
	SOD	iP	12 34 25.8	U				i	27 10.6		
		i	29.6				SOD	iP	13 26 47.3		
	KEV	eP	12 34 23				KEV	eP	13 26 35		
			H: 12 21 19.0						H: 13 16 35.5		
			1.7 N, 126.3 E, 30 km						43.5 N, 148.4 E, 33 km		
			Molucca Passage						Kurile Islands		

August				T	A	August				T	A
12	NUR	iP	13 28 55.4	0.9	52.1	12	NUR	eP	14 49 32		
	KJN	eP	13 28 31	1.1	54.0			e	41		
		i	43.0					H:	14 38 43.5		
	OUL	iP	13 28 29.5						43.4 N, 147.1 E, depth N		
	SOD	eP	13 28 18						Kurile Islands		
	KEV	iP	13 28 05.1	0.6	18.8	12	NUR	iP	15 11 14.4		
	H:		13 18 08.2				KJN	eP	15 10 51		
			43.5 N, 148.0 E, depth N				OUL	eP	15 10 48		
			Kurile Islands				SOD	eP	15 10 37		
							H:		15 00 26.1		
12	NUR	eP	13 34 01						43.8 N, 148.8 E, depth N		
	KJN	eP	13 33 39						Kurile Islands		
12	NUR	iP	13 35 50.4			12	NUR	iP	15 21 10.5		
	KJN	eP	13 35 24								
	OUL	eP	13 35 25			12	NUR	iP	15 23 10.0		
	i		38.0				i		23.7		
12	NUR	iP	13 37 16.6				KJN	eP	15 22 47		
	KJN	eP	13 36 53				i		59.2		
	OUL	iP	13 36 51.4				OUL	i	15 22 58.4		
	SOD	iP	13 36 38.8				SOD	eP	15 22 33		
12	NUR	eP	13 55 27				i		47.8		
	KJN	eP	13 55 05				H:		15 12 22.1		
	OUL	eP	13 55 03						43.2 N, 147.5 E, depth N		
	SOD	eP	13 54 51						Kurile Islands		
	H:		13 44 41.5			12	NUR	iP	15 36 41.3		
			43.7 N, 147.5 E, depth N				KJN	eP	15 36 18	0.7	7.5
			Kurile Islands				OUL	iP	15 36 17.4		
12	NUR	iP	14 30 25.1				i		28.6		
	KJN	eP	14 30 02				SOD	iP	15 36 04.3		
	OUL	eP	14 30 00				H:		15 25 53.3		
	H:		14 19 37.0						43.3 N, 147.6 E, depth N		
			43.6 N, 148.1 E, depth N						Kurile Islands		
			Kurile Islands			12	NUR	iP	15 38 45.1		
12	NUR	iP	14 38 39.2				KJN	eP	15 38 21	0.9	35.7
	i		50.0				OUL	iP	15 38 19.8		
	KJN	iP	14 38 16.1				i		20.7		
	OUL	iP	14 38 14.6				iPcP		56.6		
	SOD	iP	14 38 02.7				SOD	iP	15 38 07.2		
12	NUR	iP	14 43 49.8	0.7	6.5		H:		15 28 01.4		
	KJN	eP	14 43 27						44.5 N, 149.0 E, depth N		
	OUL	eP	14 43 24						Kurile Islands		
	H:		14 33 03.1			12	NUR	iP	15 52 27.2		
			43.7 N, 148.3 E, depth N								
			Kurile Islands			12	NUR	eP	16 00 12		
12	NUR	iP	14 48 25.2				KJN	eP	15 59 49	0.6	4.8
							OUL	iP	15 59 47.6		
							SOD	iP	15 59 35.8		

August							August							
					T	A						T	A	
12	NUR	eP	16 00	41	0.9	21.8	KJN	eP	17 54	54				
	KJN	iP	16 00	17.8	0.9	23.2	OUL	eP	17 54	51				
	OUL	iP	16 00	16.7 U			SOD	eP	17 54	40				
		i		22.1										
	SOD	iP	16 00	04.3			12	NUR	eP	17 56	15			
	Moscow:							KJN	eP	17 55	51			
	H: 15 49 55													
	44.0 N, 148.9 E							12	NUR	eP	17 57	14		
	Kurile Islands							KJN	eP	17 57	39			
12	NUR	eP	16 40	57			12	KJN	iP	18 29	38.0	0.7	5.5	
	KJN	iP	16 40	34.5				OUL	iP	18 29	34.1			
	OUL	eP	16 40	32										
	SOD	iP	16 40	20.8			12	NUR	iP	19 00	38.9			
	H: 16 30 12.3							KJN	iP	19 00	15.3			
	43.6 N, 146.9 E, depth N							OUL	eP	19 00	14			
	Kurile Islands							SOD	iP	19 00	02.4			
								KEV	eP	18 59	50			
12	NUR	iP	16 54	23.2			12	NUR	iP	19 28	57.0			
	KJN	iP	16 54	01.6				KJN	eP	19 28	33			
	OUL	eP	16 53	59				OUL	eP	19 28	32			
	H: 16 43 36.8							SOD	iP	19 28	19.3			
	43.7 N, 147.9 E, 24 km							H: 19 18 10.8						
	Kurile Islands							44.1 N, 148.7 E, depth N						
							Kurile Islands							
12	NUR	iP	17 00	46.5			12	NUR	iP	19 31	27.0			
	KJN	eP	17 00	23				KJN	iP	19 31	04.7			
	SOD	eP	17 00	10				OUL	eP	19 31	03			
12	NUR	eP	17 11	13				SOD	eP	19 30	51			
	KJN	eP	17 10	49				H: 19 20 38.3						
	H: 17 00 27.9							43.0 N, 146.7 E, 25 km						
	43.9 N, 148.1 E, depth N							Kurile Islands						
	Kurile Islands													
12	NUR	iP	17 19	25.2	0.9	11.8	12	NUR	eP	19 31	59			
	KJN	eP	17 19	02	0.9	8.9		OUL	eP	19 31	34			
	OUL	iP	17 18	59.3				SOD	eP	19 31	22			
	SOD	eP	17 18	47			12	NUR	iP	19 33	47.6			
	H: 17 08 37.3													
	43.5 N, 148.2 E, depth N							12	NUR	iP	20 24	19.4		
	Kurile Islands							KJN	eP	20 23	56			
								OUL	eP	20 23	54			
12	NUR	eP	17 45	52				SOD	eP	20 23	42			
	KJN	iP	17 45	29.5			12	NUR	iP	20 29	30.2			
	OUL	eP	17 45	27				KJN	iP	20 29	07.7			
	SOD	iP	17 45	15.4				OUL	iP	20 29	06.1			
	H: 17 35 04.2							SOD	iP	20 28	54.3			
	43.4 N, 147.5 E, depth N							H: 20 18 40.9						
	Kurile Islands							43.1 N, 147.6 E, depth N						
12	NUR	eP	17 55	15			Kurile Islands							
	cont.													

August

August

August				T	A	August				T	A
13	NUR	iP	00 29 19.3			13	KJN	eP	02 40 22		
	KJN	eP	00 28 57				OUL	eP	02 40 24		
	OUL	eP	00 28 55				SOD	eP	02 40 21		
	SOD	eP	00 28 47				H: 02 27 14.4				
	H: 00 18 33.5						1.7 N, 126.4 E, depth N				
	42.9 N, 147.4 E, 57 km						Molucca Passage				
	Hokkaido, Japan					13	NUR	iP	03 40 00.4	D	0.7
13	NUR	eP	01 03 51					eS	48 45		23.2
	KJN	eP	01 03 27				KJN	iP	03 39 37.0		0.8
	OUL	eP	01 03 25				OUL	iP	03 39 35.3		16.1
13	NUR	iP	01 07 43.4				SOD	iP	03 39 22.5		
	KJN	eP	01 07 20				KEV	iP	03 39 11.0		0.7
	SOD	eP	01 07 07					eS	47 12		12.9
13	NUR	iP	01 13 01.8					eSS	51 32		
	KJN	eP	01 12 38					e	53 44		
	OUL	eP	01 12 36				H: 03 29 14.1				
	H: 01 02 15.1						43.5 N, 147.4 E, depth N				
	43.8 N, 148.5 E, 39 km						Kurile Islands				
	Kurile Islands					13	NUR	iP	03 58 00.3		
13	NUR	iP	01 48 17.0				KJN	eP	03 57 37		
	SOD	eP	01 47 38				OUL	iP	03 57 36.0		
	H: 01 37 29.1						SOD	iP	03 57 23.7		
	43.0 N, 147.7 E, depth N						H: 03 47 14.2				
	Kurile Islands						43.8 N, 148.5 E, depth N				
	Kurile Islands						Kurile Islands				
13	NUR	eP	02 08 39			13	NUR	iP	04 01 43.0		
	H: 01 57 49.6						KJN	eP	04 01 20		
	43.2 N, 148.0 E, depth N						OUL	eP	04 01 19		
	Kurile Islands						SOD	iP	04 01 06.7		
	Kurile Islands						H: 03 50 54.4				
	Kurile Islands						43.1 N, 147.1 E, depth N				
	Kurile Islands						Kurile Islands				
13	NUR	iP	02 17 53.8			13	NUR	iP	04 03 48.9		
		eS	26 36				KJN	eP	04 03 25		
		eSS	31 08				OUL	eP	04 03 24		
	KJN	iP	02 17 30.9	1.0	24.0		SOD	eP	04 03 11		
		i	42.1			13	NUR	iP	04 10 56.9		0.8
	OUL	iP	02 17 28.9				KJN	iP	04 11 34.2		0.9
		i	40.6				OUL	eP	04 11 40		9.8
	SOD	iP	02 17 17.0					i	42.6		
	KEV	eP	02 17 05					iPP	12 27.9		
		eS	25 10				SOD	eP	04 12 03		
		eSS	29 18				H: 04 06 03.8				
	H: 02 07 07.3						38.6 N, 21.7 E, depth N				
	43.8 N, 148.7 E, 35 km						Greece				
	Kurile Islands					13	NUR	iP	04 23 41.3		
13	NUR	iP	02 38 52.9				KJN	eP	04 23 19		
	EJN	eP	02 38 29				cont.				
	H: 02 28 06.1										
	43.8 N, 148.5 E, depth N										
	Kurile Islands										

August				August			
	T	A		T	A		
SOD eP	09 30	43		13 NUR eP	14 39	32	
H: 09 20	34.0			KJN eP	14 39	09	
43.9 N, 148.4 E, depth N				OUL eP	14 39	06	
Kurile Islands				SOD eP	14 38	53	
13 NUR iP	09 38	55.4		i	39 08.0		
KJN eP	09 38	33		H: 14 28	46.5		
OUL eP	09 38	31		44.1 N, 148.5 E, depth N			
H: 09 28	08.6			Kurile Islands			
43.5 N, 147.3 E, depth N				13 NUR iP	14 40	10.0	0.8
Kurile Islands				KJN iP	14 39	45.6 U	0.7
13 NUR eP	10 18	01		OUL iP	14 39	37.9 U	8.2
H: 10 07	13.9			e	40 03		
43.6 N, 147.5 E, depth N				SOD iP	14 39	21.6 U	
Kurile Islands				i	45.0		
13 NUR eP	11 51	42		KEV iP	14 39	03.4	0.7
13 NUR iP	12 23	57.6	0.8	H: 14 30	14.6		12.9
KJN iP	12 23	34.5 U	0.7	60.1 N, 151.8 W, 69 km			
i	46.3			Kenai Peninsula, Alaska			
OUL iP	12 23	32.3 U		13 NUR eP	15 09	29	
SOD iP	12 23	20.3		KJN eP	15 09	06	
i	29.1			H: 14 58	44.2		
H: 12 13	07.0			44.0 N, 148.0 E, depth N			
43.2 N, 147.9 E, 14 km				Kurile Islands			
Kurile Islands				13 NUR eP	15 24	13	
13 NUR iP	12 39	30.8		13 KJN eP	15 31	50	
KJN eP	12 39	08		13 NUR eP	16 23	20	
OUL eP	12 39	06		KJN eP	16 23	02	0.7
13 NUR iP	12 41	36.2	0.8	OUL iP	16 22	53.4	6.9
KJN iP	12 41	12.5	0.8	SOD iP	16 22	40.0	
iPcP	50.0			H: 16 12	16.9		
OUL iP	12 41	11.2 U		48.5 N, 126.5 W, depth N			
ePcP	47			Vancouver Island			
SOD iP	12 40	58.6		13 NUR iP	17 18	02.3	1.1
KEV iP	12 40	47.2	1.0	eS	26 52		52.4
H: 12 30	48.3			KJN iP	17 17	39.3 U	1.2
43.3 N, 147.8 E, depth N				i	52.1		44.7
Kurile Islands				OUL iP	17 17	37.9	
13 NUR iP	13 48	03.3		i	55.5		
i	13.8			SOD iP	17 17	25.9	
KJN iP	13 47	40.0	0.7	KEV eP	17 17	13	
OUL iP	13 47	38.7	4.8	eS	25 20		
SOD iP	13 47	26.7		eScS	26 52		
13 NUR iP	14 33	49.0		H: 17 07	13.8		
KJN eP	14 33	26		42.8 N, 146.6 E, depth N			
OUL eP	14 33	24		Hokkaido, Japan			

August						August						
				T	A							
13	NUR	iP	17 26 49.5			13	NUR	eP	23 07 51	0.5	58.1	
	KJN	eP	17 26 26					i	52.2			
	OUL	eP	17 26 25					ePPP	12 00			
	SOD	eP	17 26 12					eS	16 32			
	H: 17 16 01.0							eSS	21 12			
	43.7 N, 148.4 E, depth N						KJN	iP	23 07 28.3	0.5	29.4	
	Kurile Islands							i	35.5			
13	KJN	iP	18 08 05.0				OUL	iP	23 07 26.6			
		i	52.4				SOD	iP	23 07 15.0			
	OUL	eP	18 08 08					eS	15 13			
	SOD	iP	18 08 02.2					eScS	17 02			
13	NUR	iP	18 19 46.1 U				KEV	eP	23 07 02	0.6	20.0	
	KJN	iP	18 19 22.5 U	1.0	20.7			iPcP	52.1			
	OUL	iP	18 19 20.6 U					i	08 36.0			
	SOD	eP	18 19 09					ePPP	10 44			
	H: 18 09 01.6							eS	15 00			
	44.2 N, 149.0 E, 40 km							eScS	16 54			
	Kurile Islands							eSS	19 08			
								e	24			
								H: 22 57 07.4				
								44.0 N, 148.1 E, depth N				
								Kurile Islands				
13	NUR	eP	19 44 20	0.5	11.9		13	NUR	eP	23 23 42		
	KJN	iP	19 43 58.1	0.7	5.5			KJN	eP	23 23 18		
	OUL	eP	19 43 55					OUL	eP	23 23 17		
		i	56.4					SOD	eP	23 23 05		
		i	44 14.9					H: 23 12 57.9				
	SOD	eP	19 43 43					43.9 N, 148.5 E, 40 km				
	KEV	eP	19 43 31					Kurile Islands				
		e	42					14	NUR	eP	00 23 23	
	H: 19 33 41.2								KJN	eP	00 22 59	
	43.9 N, 147.8 E, 73 km								OUL	eP	00 22 58	
	Kurile Islands								SOD	iP	00 22 45.3	
13	NUR	iP	20 20 03.4					H: 00 12 31.5				
	KJN	eP	20 19 41					42.9 N, 147.2 E, depth N				
	OUL	eP	20 19 38					Hokkaido, Japan				
	H: 20 09 15.8							14	NUR	iP	00 29 01.8	
	43.6 N, 148.1 E, 33 km								KJN	iP	00 28 46.0	
	Kurile Islands								OUL	iP	00 28 46.5 U	
13	NUR	eP	21 23 38						SOD	iP	00 28 38.8	
	KJN	eP	21 23 14					H: 00 17 01.7				
	OUL	iP	21 23 15.6					22.6 N, 141.9 E, 228 km				
	SOD	iP	21 23 03.3					Volcano Islands				
	H: 21 12 50.8							14	NUR	eP	00 42 51	
	43.6 N, 148.4 E, depth N								KJN	eP	00 42 40	
	Kurile Islands								i	45.2		
13	NUR	iP	22 52 54.1	0.5	13.2				OUL	iP	00 42 43.0	
	KJN	iP	22 52 30.1 U						i	48.2		
	OUL	iP	22 52 28.7 U						ePP	46 27		
	H: 22 42 07.9											
	44.2 N, 149.2 E, 32 km											
	Kurile Islands										cont.	

August				August					
		T	A			T	A		
	SOD iP	00 42	40.7		14 NUR iP	04 58	40.0	0.8	18.7
	i		46.0		KJN iP	04 58	17.0	0.6	13.7
	KEV eP	00 42	40		OUL iP	04 58	15.3		
	H:	00 29	32.3		i		23.2		
	1.6 N, 126.3 E, depth N				SOD iP	04 58	02.8 U		
	Molucca Passage				KEV eP	04 57	51		
					H:	04 47	54.3		
14	NUR iP	01 55	07.0		43.3 N, 147.8 E, 48 km				
	KJN eP	01 54	44		Kurile Islands				
	OUL eP	01 54	42		14	SOD eP	05 19	57	
	H:	01 44	20.9			H:	05 09	51.4	
	43.9 N, 148.1 E, depth N					43.2 N, 147.5 E, depth N			
	Kurile Islands					Kurile Islands			
14	NUR eP	01 58	13		14	NUR eP	05 52	17	
	KJN iP	01 57	50.0			KJN iP	05 51	54.1	1.0
	OUL eP	01 57	48			OUL iP	05 51	52.2	10.9
	H:	01 47	25.9			SOD iP	05 51	40.4	
	43.6 N, 148.6 E, depth N					H:	05 41	29.1	
	Kurile Islands					43.2 N, 147.8 E, depth N			
14	NUR iP	03 18	18.6	0.7	11.6	Kurile Islands			
	KJN iP	03 17	55.1			14	NUR iP	06 17	28.7
	i	18	07.5				KJN iP	06 17	05.2 U
	OUL iP	03 17	54.1				e	25	0.8
	i	18	05.6				OUL iP	06 17	03.2 U
	SOD iP	03 17	41.1				SOD iP	06 16	51.2
	i		51.4				H:	06 06	39.9
	KEV eP	03 17	30	0.8	11.5		43.6 N, 149.0 E, depth N		
	H:	03 07	29.5				Kurile Islands		
	43.0 N, 147.5 E, depth N					14	NUR eP	09 10	38
	Kurile Islands						KJN iP	09 10	15.2 U
14	NUR iP	03 33	36.0				OUL iP	09 10	13.1 U
	KJN eP	03 33	12				SOD eP	09 10	01
	OUL eP	03 33	10				KEV eP	09 09	50
	SOD eP	03 32	59				H:	08 59	49.6
	H:	03 22	48.6				43.1 N, 147.5 E, depth N		
	44.0 N, 149.0 E, depth N						Kurile Islands		
	Kurile Islands					14	NUR eP	11 14	51
14	NUR eP	03 48	32				OUL eP	11 14	50
	KJN eP	03 48	12				SOD iP	11 14	38.2
	OUL eP	03 48	09			14	NUR ePKP	11 16	44
	SOD eP	03 47	56				eSKS	23	50
	H:	03 37	45.6				eSS	33	36
	43.8 N, 148.0 E, depth N						KEV eSKS	11 23	04
	Kurile Islands						ePS	25	52
14	NUR eP	04 21	38				eSS	31	48
	OUL eP	04 21	13				H:	10 58	01.7
	SOD eP	04 21	01				5.4 S, 152.0 E, depth N		
	H:	04 10	52.1				New Britain		
	43.9 N, 147.8 E, depth N								
	Kurile Islands								

August				August			
	T	A		T	A		
14	NUR	eP	12 02 00				
	KJN	eP	12 01 37				
	OUL	eP	12 01 35				
		i	43.2				
	SOD	iP	12 01 23.7				
	H:		11 51 12.5				
			43.1 N, 147.5 E, depth N				
			Kurile Islands				
14	NUR	eP	12 27 02				
		e	12				
	KJN	eP	12 26 39				
	OUL	eP	12 26 36				
	SOD	eP	12 26 27				
	H:		12 16 14.6				
			43.4 N, 148.2 E, depth N				
			Kurile Islands				
14	NUR	eP	12 49 23				
14	NUR	iP	13 28 13.9				
	KJN	iP	13 27 51.0				
	OUL	eP	13 27 49				
	SOD	iP	13 27 37.7				
14	NUR	iP	13 42 33.1				
	KJN	iP	13 42 10.2 U	0.7	15.1		
	OUL	iP	13 42 08.1 U				
	SOD	iP	13 41 56.5				
	KEV	iP	13 41 45.1	0.7	14.2		
	H:		13 31 43.9				
			42.8 N, 147.1 E, depth N				
			Hokkaido, Japan				
14	NUR	iP	14 29 50.0 U	0.7	237.4		
		i	55.8	1.0	760.0		
		i	30 08.0	0.7	268.3		
		i	36.2	0.9	319.2		
		e	32 34				
		iS	38 37.8				
		i	39 22.6				
		i	40 15.7				
		eSS	43 04				
		eP'P'	58 23				
	KJN	iP	14 29 26.5 U	0.6	322.0		
		i	30 12.6				
		iS	37 55.6				
		eP'P'	58 19				
	OUL	iP	14 29 24.7 U				
		ePP	31 52				
		eP'P'	58 24				
			cont.				
	SOD	iP	14 29 12.8 U				
		i	19.5				
		i	45.1				
		iPcP	57.8				
		eS	37 28				
		eP'P'	58 21				
	KEV	iP	14 29 01.2	0.7	129.0		
		i	08.7				
		iPcP	48.0				
		ePPP	32 44				
		e	34 24				
		eS	37 10				
		e	44				
		eP'P'	58 26				
	H:		14 19 01.6				
			43.1 N, 147.5 E, depth N				
			Kurile Islands				
14	NUR	iP	14 49 07.5				
	KJN	eP	14 48 44				
	OUL	iP	14 48 43.0				
		i	56.6				
	SOD	eP	14 48 26				
		i	31.4				
		i	43.5				
	H:		14 38 16.4				
			43.0 N, 147.9 E, 15 km				
			Kurile Islands				
14	NUR	eP	15 10 25				
	KJN	iP	15 10 02.9				
	OUL	iP	15 10 00.9 D				
	SOD	iP	15 09 48.8				
	KEV	eP	15 09 37				
14	NUR	eP	15 19 12				
	KJN	iP	15 18 48.9				
	OUL	eP	15 18 47				
	SOD	iP	15 18 35.7				
14	NUR	iP	15 22 12.0				
	KJN	iP	15 21 49.4				
	OUL	eP	15 21 47				
	SOD	iP	15 21 35.3				
14	NUR	eP	15 24 39				
	KJN	iP	15 24 16.0	0.7	12.3		
	OUL	iP	15 24 14.6				
	SOD	iP	15 24 01.7				
			cont.				

August				August					
		T	A		T	A			
	KEV eP	15 23	50				OUL iP	17 09 03.6	
	H:	15 13	49.8				i	16.3	
	43.0 N, 147.6 E, depth N						SOD iP	17 08 51.7	
	Kurile Islands						KEV iP	17 08 39.8	
							H:	16 58 40.1	
14	NUR iP	15 30	18.4				43.1 N, 147.6 E, depth N		
	KJN iP	15 29	55.1	0.6		8.2	Kurile Islands		
	OUL iP	15 29	53.1						
	SOD iP	15 29	41.3				14	NUR iP	17 16 40.2 U
	H:	15 19	34.7					KJN iP	17 16 16.9
	44.1 N, 147.8 E, depth N							OUL iP	17 16 15.1
	Kurile Islands							SOD iP	17 16 03.1
								KEV iP	17 15 51.2
14	NUR eP	15 38	30					H:	17 05 51.8
	KJN iP	15 38	08.0					43.0 N, 147.6 E, depth N	
	OUL eP	15 38	06					Kurile Islands	
	SOD eP	15 37	53						
	H:	15 27	53.2				14	NUR eP	17 23 41
	43.6 N, 147.6 E, 106 km							KJN eP	17 23 19
	Kurile Islands							OUL eP	17 23 17
								SOD eP	17 23 05
14	NUR iP	15 49	07.1	0.7		9.0		H:	17 12 58.7
	KJN eP	15 48	44					44.0 N, 147.9 E, depth N	
	i	49	18.1					Kurile Islands	
	OUL iP	15 48	42.2				14	OUL eP	17 32 51
	SOD iP	15 48	29.8						
	KEV iP	15 48	19.1						
	H:	15 38	18.2				14	NUR iP	18 02 08.0
	43.0 N, 147.7 E, depth N							KJN iP	18 01 44.8
	Kurile Islands							OUL iP	18 01 42.8
								SOD iP	18 01 30.8
14	NUR iP	15 54	52.8					KEV eP	18 01 19
	KJN eP	15 54	30					H:	17 51 18.5
	OUL eP	15 54	28					42.9 N, 147.7 E, depth N	
	SOD iP	15 54	16.0					Hokkaido, Japan	
	KEV eP	15 54	05						
							14	NUR iP	18 32 24.9
14	OUL eP	15 55	52					KJN iP	18 32 02.2 U
								OUL iP	18 31 59.9
14	NUR eP	16 38	23					SOD iP	18 31 48.8
	KJN eP	16 38	00					KEV eP	18 31 36
	OUL eP	16 37	58					H:	18 21 36.5
	SOD eP	16 37	46					43.0 N, 147.6 E, depth N	
	KEV eP	16 37	32					Kurile Islands	
	H:	16 27	37.8				14	NUR iP	18 57 29.4
	43.9 N, 148.4 E, depth N							KJN iP	18 57 05.9
	Kurile Islands							OUL iP	18 57 04.1
								SOD eP	18 56 52
14	KJN eP	16 59	43					KEV eP	18 56 40
								H:	18 46 40.4
14	NUR eP	17 09	28	0.5		13.2		43.3 N, 147.5 E, depth N	
	KJN iP	17 09	05.3	0.8		23.1		Kurile Islands	

cont.

August				T	A	August				T	A	
14	KJN	eP	19 16 31			OUL	eP	23 07 42				
							i	51.5				
14	NUR	iP	20 26 29.3	0.6	21.3	SOD	eP	23 07 30				
	KJN	iP	20 26 06.2	0.7	11.0		e	39				
	OUL	iP	20 26 04.6			KEV	eP	23 07 23				
	SOD	eP	20 25 52									
	KEV	eP	20 25 40			14	NUR	iP	23 16 53.8			
	H: 20 15 41.8						KJN	iP	23 16 30.9			
	42.9 N, 147.5 E, 46 km						OUL	eP	23 16 28			
	Hokkaido, Japan						SOD	eP	23 16 16			
14	NUR	eP	21 21 43			14	NUR	iP	23 58 56.0 U	1.0	60.0	
	KJN	iP	21 21 19.5				i	59 08.5				
	OUL	iP	21 21 17.8				eS	24 07 20				
	SOD	iP	21 21 05.8				KJN	iP	23 58 30.0 U	0.9	76.8	
	H: 21 10 56.2						i	41.8				
	43.5 N, 148.1 E, depth N						OUL	iP	23 58 25.5 U			
	Kurile Islands						i	37.5				
14	NUR	iP	21 45 51.5				SOD	iP	23 58 11.6			
	KJN	iP	21 45 28.5				i	23.0				
	OUL	eP	21 45 27				i	41.0				
	SOD	eP	21 45 15				KEV	iP	23 57 56.8	1.0	20.0	
							i	58 22.2				
							H: 23 48 36.0					
							52.2 N, 160.5 E, depth N					
							Kamchatka					
14	NUR	eP	21 55 48			15	NUR	iP	00 54 08.0			
		eS	59 40				OUL	eP	00 53 43			
	KJN	iP	21 56 26.0									
		e	35									
	OUL	iP	21 56 34.6			15	NUR	iP	01 18 04 8			
	SOD	eP	21 56 52				KJN	iP	01 17 41 8			
	H: 21 51 04.1						OUL	iP	01 17 39.4			
	39.6 N, 27.8 E, 21 km						SOD	iP	01 17 27.4			
	Turkey						H: 01 07 15.8					
14	NUR	iP	22 03 32.0				43.1 N, 147.4 E, depth N					
							Kurile Islands					
14	NUR	iP	22 23 08.2	0.5	19.8							
		i	21.9									
		eSS	36 36			15	NUR	eSKS	04 02 52			
	KJN	iP	22 22 45.2	0.6	14.4			eSS	12 08			
	OUL	iP	22 22 41.8				KEV	ePP	03 56 04			
		i	43.0					eSS	04 11 08			
	SOD	iP	22 22 30.2				H: 03 37 52.8					
	KEV	eP	22 22 16				3.5 S, 144.4 E, 22 km					
		eS	30 24				New Guinea					
		eSS	34 40			15	NUR	iP	04 42 50.0 U	1.1	338.0	
	H: 22 12 22.0						i	43 02.2				
	43.9 N, 148.6 E, depth N						eS	51 39				
	Kurile Islands						eScS	52 49				
14	NUR	iP	23 08 14.2				eSS	56 13				
							cont.					

August				August			
			T	A		T	A
	SOD	eP	09 58 06			15	KJN eP 12 18 12
	KEV	eP	09 57 54			15	NUR iPKP 12 38 41.8 0.6 37.8
	H:		09 48 00.1				KJN iPKP 12 38 31.8 0.7 17.1
			43.9 N, 147.5 E, depth N				OUL iPKP 12 38 31.6
			Kurile Islands				SOD iPKP 12 38 25.7
15	NUR	iP	10 13 08.5				H: 12 18 57.9
		i	22.2				35.2 S, 179.8 E, 46 km
		i	32.0				North Island, N.Z.
		eS	22 00			15	NUR iP 14 20 42.8
	KJN	eP	10 12 44	1.1	41.9		e 22 04
		e	54				KJN iP 14 20 19.1 U 0.6 8.2
	OUL	iP	10 12 43.3				OUL iP 14 20 17.4
		i	57.9				SOD iP 14 20 05.0
	SOD	eP	10 12 30				KEV eP 14 19 53
		i	45.3				H: 14 09 53.1
	KEV	iP	10 12 20.2	1.0	20.0		43.3 N, 147.5 E, 25 km
	H:		10 02 17.9				Kurile Islands
			43.1 N, 148.3 E, depth N				
			Kurile Islands			15	NUR iP 17 07 07.9
15	NUR	iP	10 22 13.6				KJN iP 17 06 44.9 0.6 3.4
	KJN	eP	10 21 50				OUL iP 17 06 42.6
	SOD	eP	10 21 36				H: 16 56 18.8
		i	50.5				43.1 N, 147.7 E, depth N
							Kurile Islands
15	NUR	eP	10 44 47			15	NUR iP 17 11 35.7
	KJN	eP	10 44 25				KJN iP 17 11 12.2 0.8 6.2
	SOD	eP	10 44 10				OUL iP 17 11 10.2
	H:		10 34 11.6				SOD eP 17 10 57
			43.6 N, 148.1 E, 111 km				H: 17 01 02.7
			Kurile Islands				43.7 N, 147.8 E, 147 km
15	NUR	iP	11 40 39.6	0.6	12.3		Kurile Islands
	KJN	iP	11 40 16.9			15	NUR ePKP 19 22 38
	OUL	iP	11 40 14.4 U				iSKP 25 23.3
		i	23.2				KJN ePKP 19 22 31
	SOD	iP	11 40 02.7				iSKP 25 12.5
		i	10.9				OUL iPKP 19 22 29.6
	KEV	iP	11 39 50.4				iSKP 25 11.8
	H:		11 29 53.1				SOD eSKP 19 24 58
			43.2 N, 147.8 E, 43 km				H: 19 04 09.5
			Kurile Islands				23.5 S, 180.0 W, 518 km
15	NUR	iP	11 58 25.0				South of Fiji Islands
	KJN	iP	11 58 02.0			15	NUR iP 20 17 04.7
	OUL	iP	11 57 59.6				KJN iP 20 16 41.5 U 0.8 12.3
	SOD	iP	11 57 47.4				OUL iP 20 16 39.5
	KEV	eP	11 57 37				SOD iP 20 16 27.1
	H:		11 47 35.6				cont.
			43.2 N, 147.3 E, depth N				
			Kurile Islands				



August

August

T A

T A

SOD iSn 04 11 41.7
i 59.4
iSg 12 13.3

Uppsala:

H: 04 09 20

66.7 N, 13.6 E

Nordland, Norway

16 KJN eP 06 21 14
OUL iP 06 20 58.0
SOD eP 06 20 43

16 OUL eP 06 34 52

16 NUR iP 08 58 37.0 U 0.6 40.0
KJN iP 08 58 13.0 U 0.8 26.1
OUL iP 08 58 11.5
SOD eP 08 57 59
KEV iP 08 57 49.1 0.8 17.3

H: 08 47 51.0

43.2 N, 147.6 E, 48 km (D)

Kurile Islands

16 NUR eP 09 13 58
KJN eP 09 13 35
OUL iP 09 13 33.3
SOD iP 09 13 21.1
KEV eP 09 13 11
H: 09 03 13.9
43.9 N, 148.5 E, 40 km (G)
Kurile Islands

16 OUL eP 09 20 19
i 26.7
SOD iP 09 19 29.5

16 NUR eP 10 13 39
KJN eP 10 13 16
i 24.8
OUL eP 10 13 14
SOD iP 10 13 02.5
i 15.4

H: 10 02 57.3

43.9 N, 147.7 E, 61 km

Kurile Islands

16 NUR eP 12 51 53
KJN eP 12 52 06
i 20.5
OUL eP 12 52 18

16 KJN iP 12 54 28.2
cont.

OUL eP 12 54 25

SOD eP 12 54 13

H: 12 44 07.8

44.0 N, 148.2 E, 45 km (G)

Kurile Islands

16 OUL eP 13 23 03

16 NUR iP 15 26 17.2 U 1.0 317.9
i 29.7

eS 35 00

eSS 39 32

KJN iP 15 25 53.6 U 0.9 260.8

eS 34 26

OUL iP 15 25 52.2 U

SOD iP 15 25 39.0

i 45.9

KEV iP 15 25 28.1 1.0 220.0

iPcP 26 16.0

ePPP 29 04

eS 33 36

H: 15 15 32.7

43.3 N, 147.6 E, 60 km (G)

Kurile Islands

16 NUR eP 17 24 29 1.1 276.5

e 32 55

eSS 37 34

KJN iP 17 24 06.3 0.7 124.7

OUL iP 17 24 04.5

SOD iP 17 23 51.7

i 54.1

i 24 04.5

KEV iP 17 23 40.4 0.9 122.6

i 41.9

eS 31 48

H: 17 13 44.0

43.2 N, 147.7 E, 53 km (D)

Kurile Islands

16 OUL eP 21 11 04

16 NUR eP 21 45 07

KJN eP 21 44 43

16 NUR eP 22 31 43

KJN iP 22 31 19.5

OUL iP 22 31 18.4

SOD eP 22 31 05

KEV eP 22 30 52

16 NUR eP 22 50 55

cont.

August				August			
		T	A			T	A
	KJN eP	22 50	42	17	NUR iP	11 50	24.8
	OUL iP	22 50	43.4		KJN iP	11 50	01.0 0.6 6.9
16	NUR iP	23 36	11.8		OUL iP	11 49	59.6
	KJN eP	23 35	48		SOD iP	11 49	47.3
	OUL eP	23 35	46	17	NUR iP	12 05	21.2 U 0.8 434.7
17	NUR eP	00 44	03		epP	50	
	OUL eP	00 43	53		eS	13 50	
17	KJN iP	01 17	06.0		KJN iP	12 04	59.0 U 0.9 303.6
17	KJN eP	01 48	18		ipP	05 29.8	
	OUL eP	01 48	16		eScP	09 28	
17	NUR eP	03 21	49		iS	13 08.2	
17	NUR iP	06 03	07.0 0.6 10.7		iScS	14 35.0	
	KJN iP	06 02	44.0		OUL iP	12 04	58.3 U
	SOD iP	06 02	29.5		iPP	07 12.2	
	H: 05 52	21.2			SOD iP	12 04	46.8 U
	43.4 N, 147.5 E, 48 km (D)				epP	05 17	
	Kurile Islands				KEV iP	12 04	35.8 U
					eS	12 28	
17	NUR eP	08 35	48		H: 11 54	54.9	
	OUL iP	08 35	16.4		42.7 N, 141.4 E, 130 km (D)		
	SOD eP	08 34	49		Hokkaido, Japan		
	KEV iP	08 34	44.9	17	NUR eP	12 45	00
	H: 08 25	08.1			KJN iP	12 44	50.3 0.6 6.2
	54.2 N, 164.3 W, 50 km				OUL eP	12 44	52
	Unimak Island				SOD eP	12 44	50
17	NUR iP	10 29	05.2 0.7 8.6		H: 12 31	46.9	
	KJN iP	10 28	59.0 0.6 6.2		2.5 N, 126.7 E, 40 km		
	OUL iP	10 28	59.3		Molucca Passage		
	H: 10 10	29.8		17	KJN iP	13 23	09.5
	7.0 S, 155.6 E, 66 km			17	NUR eP	13 58	04
	Solomon Islands				KJN eP	13 58	04
17	NUR iP	11 47	31.7 U 0.6 16.7	17	NUR ePKP	14 16	56
	eS	56 18			KJN ePKP	14 16	48
	eScS	57 30			OUL iP	14 16	47.6
	KJN iP	11 47	08.5 0.7 14.4		H: 13 58	08.8	
	i	20.0			18.6 S, 169.1 E, 214 km		
	OUL iP	11 47	07.1 U		New Hebrides Islands		
	i	18.5		17	NUR eP	14 59	55
	SOD iP	11 46	54.4	17	KJN iP	15 03	13.1
	i	47 07.8		17	KJN iP	15 15	40.6
	KEV iP	11 46	43.0 0.9 15.5		H: 15 02	41.3	
	H: 11 36	45.3			1.3 N, 122.6 E, 42 km		
	43.4 N, 148.0 E, 50 km (D)				Northern Celebes		
	Kurile Islands						



August						August						
				T	A					T	A	
17	NUR	eP	15 30 54	0.8	6.9	17	NUR	eP	20 27 41			
	KJN	iP	15 30 43.8	0.9	7.1			i	54.8			
	OUL	eP	15 30 46					ePP	31 02			
	SOD	eP	15 30 43					eS	38 20			
	H: 15 18 07.6							eSS	44 02			
	7.9 N, 126.7 E, 75 km (G)						KJN	iP	20 27 32.1	1.3	62.9	
	Mindanao, P.I.							i	47.8	1.4	261.9	
								i	38 17.9			
17	NUR	ePKP	16 25 54			17	OUL	iP	20 27 24.9 U			
	KJN	ePKP	16 25 46					i	38.2			
	OUL	iPKP	16 25 45.2					ePP	30 45			
	H: 16 07 43.7						SOD	iP	20 27 17.6			
	18.0 S, 178.5 W, 610 km (G)							i	30.0			
	Fiji Islands							eS	37 32			
							KEV	iP	20 27 09.1			
17	NUR	eP	17 41 07					ePP	30 14			
								e	33 28			
17	NUR	eP	18 17 08					eS	37 12			
	KJN	eP	18 17 45					eSS	42 12			
								e	30			
17	NUR	iP	18 19 56.0				H: 20 14 58.9					
	KJN	eP	18 19 33				25.0 N, 109.5 W, depth N					
		e	46				Gulf of California					
	OUL	eP	18 19 31									
		e	44			17	NUR	iP	20 40 08.0 U	0.9	27.4	
	SOD	eP	18 19 19				KJN	iP	20 39 59.5 U	1.1	50.0	
	H: 18 09 11.5							i	40 06.0			
	43.5 N, 147.5 E, 45 km (D)							OUL	iP	20 39 52.3 U		
	Kurile Islands							i	59.4			
								e	43 01			
17	NUR	eP	20 25 52				SOD	iP	20 39 44.7 U			
		i	53.9				KEV	iP	20 39 35.0	0.9	27.5	
		ePP	29 22				H: 20 27 25.2					
		eSKS	36 16				25.4 N, 109.2 W, 18 km (D)					
		eS	32				Gulf of California					
		eSS	42 12			17	NUR	eP	20 57 56			
	KJN	iP	20 25 39.0				KJN	iP	20 57 46.5			
		i	45.4	1.0	82.8		OUL	iP	20 57 49.2			
		eS	36 05				H: 20 44 39.2					
	OUL	eP	20 25 31				1.9 N, 126.5 E, 25 km					
		i	37.3				Molucca Passage					
	SOD	iP	20 25 27.8									
		i	39.1			17	NUR	eP	22 33 24			
		eS	35 42				KJN	eP	22 33 15	1.1	14.9	
	KEV	iP	20 25 21.2	0.9	56.8		OUL	eP	22 33 08			
		i	44.5					i	18.2			
		e	31 48				SOD	eP	22 33 01			
		eS	35 20				H: 22 20 42.4					
		eSS	40 44				25.1 N, 109.7 W, depth N					
	H: 20 13 08.2						Gulf of California					
	25.3 N, 109.2 W, depth N											
	Gulf of California											



August				T	A	August				T	A
18	NUR	iP	00 19 31.8			18	NUR	ePKP ₂	03 15 25		
	KJN	eP	00 19 08					ePKP ₂	16 16		
	OUL	iP	00 19 07.2				KJN	ePKP ₂	03 16 20		
	SOD	iP	00 18 54.7				H:	02 55 31.1			
18	NUR	iP	00 21 15.4	0.6	8.5			56.0 S, 122.7 W, depth N			
	KJN	eP	00 20 52					Easter Island Cordillera			
	OUL	iP	00 20 50.8			18	NUR	eP	03 34 38		
	SOD	iP	00 20 38.5				i	46.0			
	H:	00 10 29.4					ePP	38 02			
		43.7 N, 147.8 E, depth N					eS	45 14			
		Kurile Islands					KJN	iP	03 34 29.3	1.0	21.8
18	NUR	ePKP ₂	01 24 03				i	35.3	1.5	139.9	
		ePKP ₂	53				OUL	iP	03 34 21.6		
		eSKKS	35 22				i	23.2			
		eSKSP	39 04				ePP	37 34			
		e	42 02				SOD	iP	03 34 14.7		
		eSS	48 56				KEV	eP	03 34 05		
	KJN	ePKP ₂	01 24 56				H:	03 21 54.0			
	i		25 05.2					24.9 N, 109.0 W, 22 km			
	OUL	ePKP ₂	01 24 56					Gulf of California			
	KEV	eSKSP	01 39 06			18	KJN	eP	03 58 18		
	e		41 36				OUL	eP	03 58 09		
	e		42 00				i	13.2			
	H:	01 04 04.7					SOD	eP	03 58 02		
		56.0 S, 123.4 W, depth N					H:	03 45 45.0			
		Easter Island Cordillera						25.2 N, 108.9 W, depth N			
18	NUR	eP	01 52 07					Gulf of California			
	KJN	eP	01 52 00			18	NUR	eP	04 07 32		
	OUL	iP	01 51 51.6				i	41.0			
	i		52 00.4				ePP	10 54			
	SOD	eP	01 51 44				KJN	eP	04 07 23		
	H:	01 39 24.4					i	32.8	1.2	98.0	
		24.8 N, 109.2 W, depth N					OUL	iP	04 07 17.7		
		Gulf of California					i	25.7			
18	NUR	eP	02 42 09				ePP	10 36			
	KJN	eP	02 42 01				SOD	eP	04 07 10		
	i		06.8				i	18.3			
	OUL	iP	02 41 52.9				KEV	eP	04 07 03		
	i		59.4				i	08.9			
	SOD	eP	02 41 42				H:	03 54 49.8			
	H:	02 29 25.5						24.8 N, 109.1 W, depth N			
		24.6 N, 109.1 W, 29 km						Gulf of California			
		Gulf of California				18	KJN	iP	04 17 41.0		
18	NUR	eP	03 10 32				H:	04 04 37.4			
	KJN	eP	03 10 19					7.5 N, 80.6 W, 33 km			
	OUL	eP	03 10 16					Panama			
	H:	02 57 43.0				18	NUR	eP	04 45 23		
		25.2 N, 109.8 W, depth N					KJN	iP	04 45 13.5	0.9	10.7
		Gulf of California						cont.			

August						August							
				T	A								
				T	A								
	SOD	eP	04 44 59				eS	13 28					
	H:	04 32 37.9					eSS	18 44					
		24.6 N, 109.2 W, depth N					H:	07 51 06.9					
		Gulf of California						24.8 N, 109.1 W, 29 km					
								Gulf of California					
18	NUR	iP	05 37 09.6	0.8	14.1	18	SOD	eP	09 38 20				
	KJN	eP	05 36 48	0.6	15.1								
		i	50.0										
	OUL	iP	05 36 49.6			18	NUR	iP	11 00 30.2	0.8	14.1		
		i	37 05.8				KJN	iP	11 00 07.1 U	0.8	10.0		
	SOD	iP	05 36 40.2				OUL	iP	11 00 05.1 U				
	H:	05 25 48.8					SOD	iP	10 59 53.2				
		34.2 N, 140.7 E, 46 km					H:	10 49 44.1					
		Honshu, Japan						43.6 N, 147.9 E, depth N					
								Kurile Islands					
18	NUR	eP	05 47 32			18	NUR	iP	11 54 15.0	0.8	28.2		
	KJN	eP	05 47 09					i	16.1				
	OUL	eP	05 47 07					eS	12 03 00				
								eScS	04 12				
18	NUR	iP	07 02 00.0					eSS	07 36				
	KJN	eP	07 01 37				KJN	eP	11 53 52	1.2	84.3		
	OUL	eP	07 01 34					i	54 05.0				
	SOD	iP	07 01 23.6					OUL	iP	11 53 50.6 U			
	H:	06 51 19.2						SOD	iP	11 53 38.3			
		44.0 N, 148.3 E, 60 km (G)						KEV	eP	11 53 26			
		Kurile Islands						eS	12 01 30				
								eSS	05 40				
18	NUR	iPKP	07 56 29.4	1.0	27.4		H:	11 43 30.5					
		ipPKP	57 06.0					43.8 N, 148.6 E, 39 km					
	KJN	iPKP	07 56 22.5	0.8	12.3			Kurile Islands					
		ipPKP	58.8										
	OUL	iPKP	07 56 22.2			18	KJN	eP	12 15 33				
		ipPKP	58.0					OUL	eP	12 15 31			
	KEV	ePKP	07 56 15					SOD	eP	12 15 19			
	H:	07 37 41.4											
		14.8 S, 167.3 E, 140 km											
		New Hebrides Islands											
18	NUR	eP	08 03 52			18	NUR	eP	13 58 15				
		i	59.0					KJN	eP	13 57 53			
		eSKS	14 20					OUL	eP	13 57 51			
		eS	36					SOD	eP	13 57 39			
		eSS	20 16					H:	13 47 28.7				
	KJN	eP	08 03 41						43.4 N, 147.1 E, depth N				
		e	48						Kurile Islands				
		i	04 15.2										
	OUL	iP	08 03 34.4			18	NUR	iPKP	14 29 16.5 U	0.7	244.4		
		i	42.3					i	20.0				
	SOD	eP	08 03 25					epPKP	37				
		i	34.5					KJN	ePKP	14 29 05	0.8	10.8	
	KEV	eP	08 03 18						i	13.0	0.6	18.5	
		e	23						OUL	iPKP	14 29 05.0		
			cont.							i	11.2		
											cont.		

August

				T	A
	SOD	ePKP	14 28 56		
		i	29 07.6		
	KEV	iPKP	14 28 55.3		
	H: 14 09 45.9				
	29.1 S, 177.6 W, 60 km				
	Kermadec Islands				
18	NUR	iP	15 05 47.0	1.0	15.7
		i	54.8		
	KJN	iP	15 05 51.2	0.9	11.6
		i	58.8	0.8	7.7
	OUL	eP	15 06 01		
		i	08.8		
	SOD	eP	15 06 10		
		i	17.8		
	H: 14 57 57.1				
	29.9 N, 67.5 E, 15 km				
	West Pakistan				
18	NUR	eP	16 40 15		
	SOD	eP	16 39 38		
	H: 18 29 34.0				
	44.5 N, 148.1 E, depth N				
	Kurile Islands				
18	NUR	eP	17 15 10		
18	NUR	iP	17 27 49.4	0.6	10.7
	KJN	iP	17 27 46.6	0.5	16.9
	OUL	iP	17 27 50.6		
	SOD	iP	17 27 52.7		
	KEV	iP	17 27 54.0	0.9	10.1
	H: 17 15 24.7				
	2.4 S, 102.2 E, 142 km				
	Southern Sumatra				
18	NUR	eP	18 40 10		
	KJN	eP	18 39 47		
	SOD	eP	18 39 33		
	H: 18 29 27.6				
	44.0 N, 148.4 E, 50 km (G)				
	Kurile Islands				
18	NUR	eP	21 45 50		
	KJN	eP	21 45 27		
	OUL	eP	21 45 25		
	SOD	eP	21 45 12		
19	NUR	eP	00 09 04		
	KJN	iP	00 08 41.3		
	OUL	iP	00 08 39.0		
	SOD	eP	00 08 27		

August

				T	A
19	NUR	eP	00 12 16		
	KJN	eP	00 11 54		
	SOD	eP	00 11 40		
19	NUR	eP	00 16 05		
	KJN	eP	00 16 21	0.5	18.4
		i	22.0		
	OUL	eP	00 16 35		
19	NUR	ePKP	01 23 36		
		i	45.0		
		iSKP	26 22.0		
	KJN	ePKP	01 23 36		
		iSKP	26 11.2		
	OUL	iPKP	01 23 35.3		
	SOD	iSKP	01 26 02.2		
	H: 01 05 29.9				
	21.8 S, 179.7 W, 649 km				
	Fiji Islands				
19	NUR	iP	01 52 08.5		
		i	15.0	1.0	47.8
		eSKS	02 02 38		
		eS	03 04		
		eSS	09 00		
	KJN	iP	01 52 05.5	1.1	33.8
		i	12.5	0.9	134.0
	OUL	iP	01 52 09.1		
		i	16.4		
	SOD	eP	01 52 11		
		i	17.5		
	KEV	eP	01 52 12		
		i	19.0		
		eSKS	02 02 40		
		ePS	04 24		
	H: 01 39 08.3				
	6.1 S, 105.3 E, 50 km				
	Sunda Strait				
19	NUR	eP	02 30 22		
		i	31.3	1.0	28.7
	KJN	iP	02 29 46.2		
		i	49.0	0.7	14.4
		eS	31 50		
		eTmax	37 14		
	OUL	iP	02 29 29.8		
		e	31 50		
		eTmax	36 34		
	SOD	eP	02 29 03		
	cont.				



August					August					
			T	A			T	A		
	eS	30 38				eSS	12 04			
	e	34 14				H: 08 49 54.8				
	eTmax	35 42				43.8 N, 148.2 E, 39 km (D)				
KEV	eP	02 28 40				Kurile Islands				
	eS	29 45								
	H: 02 26 55.4				19	NUR	iP	09 05 19.7	0.9	23.0
	74.4 N, 10.1 E, depth N					KJN	eP	09 04 56		
	Norwegian Sea					SOD	eP	09 04 41		
19	NUR	eP	04 07 50			19	NUR	eP	09 40 59	
	KJN	eP	04 07 27				KJN	eP	09 40 35	
	OUL	e	04 07 37				SOD	eP	09 40 21	
	SOD	eP	04 07 15				H: 09 30 13.5			
							43.6 N, 148.2 E, 45 km			
							Kurile Islands			
19	NUR	eP	07 14 35			19	KJN	eP	10 12 56	
	KJN	eP	07 14 11				SOD	eP	10 12 42	
	SOD	eP	07 13 57							
19	NUR	iP	07 21 36.0			19	NUR	iP	10 29 35.3	
	KJN	iP	07 21 12.6	U	0.6	6.2	KJN	eP	10 29 12	
	SOD	iP	07 20 58.8				SOD	eP	10 28 55	
	KEV	eP	07 20 48				H: 10 18 50.7			
							43.8 N, 148.1 E, 45 km (G)			
							Kurile Islands			
19	NUR	eSKP	08 15 07			19	KJN	eP	10 34 53	
	KJN	ePKP	09 12 13				SOD	eP	10 34 38	
		eSKP	14 55							
	SOD	eSKP	08 14 45			19	NUR	iP	12 17 44.0	
	H: 07 53 59.3						KJN	iP	12 17 20.2	U
	20.4 S, 177.8 W, 549 km						SOD	eP	12 17 07	
	Fiji Islands						KEV	eP	12 16 53	
19	NUR	iP	09 00 39.5	D	0.7	90.7	H: 12 06 59.6			
	i		51.8				44.1 N, 148.8 E, 43 km (D)			
	ePP		03 08				Kurile Islands			
	ePPP		04 40			19	NUR	eP	15 10 59	
	e		05 12				KJN	eP	15 10 37	
	eS		09 29				H: 15 00 16.8			
	e		10 02				43.6 N, 148.1 E, 64 km			
	eSS		14 08				Kurile Islands			
KJN	iP	09 00 16.0	D	0.8	89.2	19	NUR	ePKP	17 47 42	
	i		28.8				H: 17 29 28.1			
	ePcP		56				23.2 S, 66.7 W, 164 km			
SOD	iP	09 00 01.9					Jujuy, Argentina			
	ePcP		46			19	KJN	eP	19 23 37	
	e		04 03							
	eS		08 14			19	NUR	iP	23 47 20.0	1.0
KEV	iP	08 59 50.2		0.9	42.0		i		33.0	14.0
	i	09 00 30.8							cont.	
	e		01 00							
	ePP		02 04							
	e		03 40							
	eS		07 48							
	e		08 20							
			cont.							

August				T	A	August				T	A
21	NUR	eP	08 02 13			21	NUR	eP	13 57 38		
	KJN	iP	08 01 50.5 D	0.5	8.8		KJN	eP	13 57 11		
	OUL	iP	08 01 48.3 D				OUL	eP	13 57 07		
	SOD	iP	08 01 36.4				H:	13 47 35.7			
	H:	07 51 30.2					54.1 N, 160.6 E, 75 km (G)				
	43.8 N, 147.1 E, 39 km (D)						Kamchatka				
	Kurile Islands					21	NUR	eP	14 38 46	0.7	16.8
21	NUR	eP	08 04 30				i	48.2			
							eS	49 40			
21	NUR	eP	09 56 18				eSS	55 28			
	KJN	eP	09 55 55				eSSS	59 12			
	OUL	iP	09 55 53.2			KJN	iP	14 38 39.8	0.9	16.1	
							i	50.0			
21	NUR	eP	10 17 10			OUL	eP	14 38 30			
		e	20				i	32.9			
	KJN	iP	10 16 49.3	0.7	6.9	SOD	iP	14 38 22.4			
		i	57.9				i	25.4			
	OUL	iP	10 16 48.2			KEV	iP	14 38 16.4	0.7	14.2	
		i	57.0				eS	48 28			
	H:	10 06 42.7					eSS	53 32			
	40.9 N, 140.0 E, 176 km						H:	14 25 51.5			
	Honshu, Japan						23.2 N, 110.6 W, 15 km				
							Baja California				
21	KJN	iP	13 32 44.0	0.6	7.5	21	NUR	eP	17 22 46		
		i	58.4				KJN	eP	17 22 38		
	OUL	eP	13 32 44				OUL	iP	17 22 31.2		
		i	57.7				SOD	iP	17 22 23.5		
	H:	13 21 56.6									
	36.3 N, 140.8 E, 67 km					21	NUR	eP	17 25 34		
	Honshu, Japan						i	43.0			
21	NUR	iP	13 34 46.9	0.5	35.6		KJN	iP	17 25 12.0 D	0.9	9.8
		i	57.0	0.9	42.0			i	21.4	0.7	11.0
		e	41 14				OUL	iP	17 25 10.6		
		eS	43 32					i	20.4		
		eSS	48 16				H:	17 14 30.1			
	KJN	iP	13 34 23.1	0.6	17.8		39.4 N, 144.6 E, depth N				
		i	24.2				Honshu, Japan				
		i	36.2	0.7	26.0						
	OUL	iP	13 34 21.3			21	OUL	eP	17 27 16		
		i	31.0					i	17.3		
		ePcP	35 03					e	26		
	SOD	iP	13 34 09.6 U			21	NUR	ePKP	19 40 57		
		i	19.7				H:	19 22 20.9			
	KEV	iP	13 33 57.1				18.1 S, 177.7 W, 385 km (G)				
		i	34 08.1				Fiji Islands				
		eS	42 00			21	NUR	eP	20 37 41		
		eSS	46 28				KJN	eP	20 37 19		
	H:	13 24 01.9									
	43.6 N, 148.1 E, 44 km (D)										
	Kurile Islands										

cont.



August

				T	A	
	OUL	eP	20 37 12			
	H:		20 26 55.6			
			52.8 N, 169.8 W, 44 km			
			Fox Islands			
21	NUR	eP	21 22 39			
		eS	33 36			
	KJN	eP	21 22 29			
	OUL	iP	21 22 23.8			
		i	27.2			
	SOD	iP	21 22 16.1			
	KEV	iP	21 22 06.2	1.2	42.8	
	H:		21 09 45.6			
			22.9 N, 110.8 W, depth N			
			Baja California			
22	KJN	eP	02 03 03			
22	NUR	eP	04 51 13			
		eS	05 00 04			
	KJN	iP	04 50 50.2 U	1.0	44.7	
		i	51 03.4			
	OUL	iP	04 50 49.0			
	SOD	iP	04 50 36.5 U			
		i	49.7			
	KEV	iP	04 50 25.0	0.8	14.4	
		eS	58 36			
		eScS	05 00 12			
	H:		04 40 26.1			
			43.1 N, 148.3 E, 60 km (G)			
			Kurile Islands			
22	NUR	eP	05 41 04			
	KJN	eP	05 40 41			
	OUL	eP	05 40 40			
	SOD	eP	05 40 26			
	H:		05 30 19.2			
			43.6 N, 147.6 E, 50 km (G)			
			Kurile Islands			
22	NUR	iP	07 23 11.8	0.6	17.1	
	KJN	iP	07 22 48.7	0.5	12.5	
	OUL	iP	07 22 47.4			
	SOD	iP	07 22 34.9			
	H:		07 12 30.9			
			43.8 N, 146.9 E, 59 km (D)			
			Kurile Islands			
22	NUR	ePKP	07 59 32			
		iSKP	08 02 14.0			
			cont.			

August

				T	A	
	KJN	ePKP	07 59 25			
		i	27.0	0.5	16.2	
		iSKP	08 02 02.8			
	OUL	iPKP	07 59 25.6			
		iSKP	08 02 01.5			
	H:		07 41 17.3			
			20.9 S, 178.7 W, 592 km (D)			
			Fiji Islands			
22	NUR	eP	10 17 31			
		i	37.0	0.8	26.8	
		eS	28 22			
		ePS	29 24			
		eSS	34 14			
		eSSS	37 52			
	KJN	iP	10 17 24.6	1.0	13.1	
		i	29.2	0.8	10.8	
	OUL	iP	10 17 15.7			
	SOD	iP	10 17 08.3			
	H:		10 04 36.4			
			23.3 N, 110.4 W, 11 km			
			Baja California			
22	NUR	e	10 34 50			
	KJN	i	10 35 13.5			
	SOD	eP	10 35 17			
	H:		10 23 14.9			
			6.8 S, 12.2 W, depth N			
			Ascension Island			
22	KEV	ePS	16 13 24			
		e	14 32			
	H:		15 45 04.7			
			7.6 S, 156.0 E, 80 km			
			Solomon Islands			
22	NUR	ePKP	17 53 19	0.9	23.0	
	KJN	iPKP	17 53 11.0			
		i	12.8	0.6	15.1	
	OUL	iPKP	17 53 11.2			
	SOD	iPKP	17 53 06.8			
	KEV	iPKP	17 53 02.4	0.7	15.5	
	H:		17 34 20.1			
			16.1 S, 174.1 W, 152 km (D)			
			Tonga Islands			
22	KJN	iP	19 47 17.9 U	0.7	11.0	
	SOD	eP	19 46 53			
	H:		19 40 56.1			
			76.9 N, 130.8 E, depth N			
			Laptev Sea			

August				T	A	August				T	A
22	NUR	iP	23 40 31.6	0.8	8.5	23	NUR	eP	04 00 30		
	KJN	eP	23 40 10				KJN	iP	04 00 08.8 D	0.9	9.8
	OUL	eP	23 40 06					i	23.2		
23	NUR	ePKP	00 13 17				OUL	eP	04 00 07		
	KJN	ePKP	00 13 11				SOD	eP	03 59 57		
	OUL	ePKP	00 13 10				H:	03 49 30.0			
	KEV	ePKP	00 13 04					39.7 N, 144.3 E, 45 km (G)			
	H:	23 54 11.9						Honshu, Japan			
		18.4 S, 168.4 E, 41 km				23	NUR	eP	05 18 04		
		New Hebrides Islands					KJN	eP	05 17 42		
23	NUR	eP	00 25 01				H:	05 07 02.2			
	KJN	iP	00 24 21.0	0.9	13.4			39.2 N, 144.8 E, depth N			
	OUL	eP	00 24 07					Honshu, Japan			
	SOD	iP	00 23 39.2			23	KJN	iP	06 50 03.4 D	1.2	68.8
	KEV	eP	00 23 09					i	15.3		
23	NUR	eP	02 12 52				OUL	iP	06 50 02.5 D		
	KJN	eP	02 12 30					i	14.3		
	OUL	iP	02 12 26.3				SOD	iP	06 49 51.4 D		
	SOD	iP	02 12 15.1					i	50 03.7		
	H:	02 02 05.8					KEV	iP	06 49 41.0	0.8	10.1
		43.5 N, 147.3 E, depth N						i	53.0		
		Kurile Islands						eS	58 00		
23	NUR	eP	02 48 38					eSS	07 02 04		
	KJN	iP	02 48 15.7	0.6	6.9		H:	06 39 24.5			
	OUL	iP	02 48 13.9					39.8 N, 144.2 E, 33 km			
	SOD	iP	02 48 02.0					Honshu, Japan			
	KEV	eP	02 47 50			23	KJN	iP	06 58 11.0	0.8	11.5
23	NUR	iP	03 05 20.0	0.9	14.8			i	22.1		
		i	31.0					i	59 14.0		
	KJN	iP	03 04 58.3	0.9	23.2		OUL	iP	06 58 09.8		
		i	05 09.5					i	20.2		
	OUL	iP	03 04 57.4 U				SOD	eP	06 57 57		
		i	05 08.6				KEV	eP	06 57 45		
	SOD	iP	03 04 46.5				H:	06 47 49.7			
		i	57.7					44.0 N, 148.2 E, 35 km (G)			
	H:	02 54 18.9						Kurile Islands			
		39.7 N, 144.3 E, 37 km (D)				23	NUR	eP	09 36 24		
		Honshu, Japan					KJN	iP	09 36 02.3		
23	NUR	eP	03 18 35				H:	09 25 22.0			
	KJN	eP	03 18 11					39.7 N, 144.3 E, 36 km (D)			
								Honshu, Japan			
23	NUR	ePKP	03 44 43			23	NUR	iP	13 38 25.8		
	OUL	ePKP	03 44 35				KJN	iP	13 38 02.9	0.5	7.4
	H:	03 25 56.4					OUL	iP	13 38 00.3 U		
		11.6 S, 166.5 E, 101 km					SOD	iP	13 37 48.3		
		Santa Cruz Islands						cont.			

August

August

August				T	A	August				T	A	
	KEV	eP	13 37 36			KEV	iP	03 43 54.1	0.7	10.3		
	H:		13 27 42.2			H:		03 33 58.6				
			43.7 N, 147.6 E, 51 km					43.4 N, 147.4 E, 60 km (G)				
			Kurile Islands					Kurile Islands				
25	NUR	eP	14 26 34			24	KJN	eP	05 00 51			
		e	39				H:	04 50 11.5				
								40.0 N, 144.2 E, depth N				
								Honshu, Japan				
23	NUR	eP	15 03 46			24	NUR	eP	09 57 13			
	KJN	eP	15 03 23				KJN	iP	09 56 49.6	1.0	7.6	
	OUL	iP	15 03 21.6				OUL	iP	09 56 45.5			
	SOD	eP	15 03 10									
	KEV	eP	15 02 57			24	NUR	eSS	10 16 00			
	H:		14 53 01.5					eSSS	20 58			
			43.4 N, 147.7 E, 60 km (G)				H:	09 31 26.2				
			Kurile Islands					61.3 S, 154.2 E, 15 km				
								Balleny Islands				
23	NUR	eP	19 23 05			24	NUR	iP	11 01 18.5			
	KJN	iP	19 23 14.0				KJN	iP	11 00 57.2	0.6	13.0	
		ePP	24 35					i	01 07.8	0.7	8.9	
	OUL	iP	19 23 25.4				OUL	iP	11 00 55.9			
	SOD	iP	19 23 37.3					i	01 04.9			
	KEV	iP	19 23 50.6	0.9	18.5		SOD	iP	11 00 45.2			
	H:		19 16 17.7				KEV	eP	11 00 32			
			33.9 N, 58.9 E, 32 km				H:	10 50 17.8				
			Iran					39.7 N, 144.3 E, depth N				
								Honshu, Japan				
23	NUR	iP	20 07 48.0	0.5	14.2	24	NUR	eP	13 01 01			
		ipP	08 00.1				KJN	eP	13 00 37	0.6	2.7	
	KJN	iP	20 07 26.2	0.5	9.6		OUL	iP	13 00 35.8			
		ipP	38.4				SOD	eP	13 00 23			
	OUL	iP	20 07 25.4	D			KEV	eP	13 00 11			
		ipP	36.4									
	SOD	iP	20 07 14.3			24	NUR	eP	13 20 26			
		ipP	26.5				KJN	iP	13 20 04.7	U	1.0	13 1
	KEV	ipP	20 07 15.8					i	30.3			
	H:		19 56 47.0				OUL	iP	13 20 03.2			
			39.7 N, 144.3 E, 35 km (G)				SOD	eP	13 19 50			
			Honshu, Japan				H:	13 09 25.7				
								39.8 N, 144.2 E, 35 km (G)				
								Honshu, Japan				
23	NUR	eP	21 29 27			24	NUR	iP	14 19 29.5			
	KJN	iP	21 29 03.0				KJN	iP	14 19 06.5			
	OUL	iP	21 29 01.6				OUL	iP	14 19 05.0			
	SOD	iP	21 28 50.2					i	08.2			
	H:		21 18 39.4					cont.				
			43.4 N, 147.6 E, depth N									
			Kurile Islands									
24	NUR	iP	03 44 43.0	0.9	26.2	24	NUR	iP	14 19 29.5			
	KJN	iP	03 44 19.4	U	0.7	20.6	KJN	iP	14 19 06.5			
	OUL	iP	03 44 17.9	U			OUL	iP	14 19 05.0			
	SOD	iP	03 44 05.9					i	08.2			
			cont.					cont.				

August				August			
		T	A			T	A
	SOD eP	14 18 53		25	NUR eP	01 17 22	
	H: 14 08 43.5				i	32.0	1.0 23.5
	43.4 N, 147.2 E, 35 km (G)				KJN iP	01 16 59.6	0.8 17.7
	Kurile Islands				i	17 10.2	0.9 39.3
24	NUR eP	15 13 47			OUL iP	01 16 59.5	
	OUL iP	15 13 18.4			i	17 09.5	
	H: 15 03 36.3				SOD eP	01 16 48	
	54.8 N, 165.4 E, depth N				e	58	
	Komandorsky Islands				H: 01 06 20.1		
					39.7 N, 144.4 E, 35 km (G)		
					Honshu, Japan		
24	NUR eP	18 37 04		25	NUR eP	01 23 07	
	KJN iP	18 36 42.3 U	0.7 3.4		i	17.0	
	OUL eP	18 36 41			KJN iP	01 22 45.8	0.8 14.6
24	NUR eP	20 38 14			i	55.5	0.9 20.5
24	NUR iP	22 14 04.8	0.7 26.5		OUL iP	01 22 45.5	
	i	20.0			i	54.3	
	eS	23 10			SOD eP	01 22 34	
	KJN iP	22 13 43.0 D	0.6 52.7		H: 01 12 05.1		
	i	54.2			39.6 N, 144.5 E, 35 km (G)		
	i	14 30.0			Honshu, Japan		
	OUL iP	22 13 41.7 D		25	NUR eP	07 05 33	
	i	54.6			i	38.0	
	iPcP	14 15.6			KJN eP	07 05 10	
	SOD iP	22 13 30.4			SOD eP	07 04 56	
	KEV eP	22 13 20			H: 06 54 45.7		
	i	53.0			43.1 N, 146.6 E, depth N		
	eS	21 44			Kurile Islands		
	eScS	23 10		25	KJN eP	11 56 04	
	eSS	25 40			i	14.8	1.0 12.0
	H: 22 03 03.8				H: 11 45 25.3		
	39.8 N, 144.3 E, 32 km				39.8 N, 144.4 E, 35 km (G)		
	Honshu, Japan				Honshu, Japan		
24	NUR iP	23 12 29.0		25	KJN eP	13 24 43	
	KJN iP	23 12 07.2 U	1.0 13.1		H: 13 12 55.4		
	i	18.0			16.0 N, 121.2 E, 102 km		
	OUL eP	23 12 06			Luzon, P.I.		
	H: 23 01 28.6			25	NUR eP	14 14 56	
	39.8 N, 144.2 E, depth N				KJN eP	14 14 33	
	Honshu, Japan				i	43.2	
24	NUR eP	23 53 40			OUL eP	14 14 34	
	i	49.5			SOD eP	14 14 19	
	KJN iP	23 53 18.3	0.7 6.9		H: 14 04 10.3		
	i	28.0			43.6 N, 146.8 E, depth N		
	OUL eP	23 53 16			Kurile Islands		
	i	26.8		25	NUR eP	15 28 36	
	SOD e	23 53 15			KJN iP	15 28 12.6	
	H: 23 42 38.3				cont.		
	39.7 N, 144.4 E, depth N						
	Honshu, Japan						

August

August

August				T	A	August				T	A
	OUL	iP	15 28 11.6			25	NUR	iP	20 52 29.0 U	0.7	17.6
	SOD	iP	15 27 59.2					i	39.9		
25	KJN	eP	17 14 28				KJN	iP	20 52 07.3 U	0.7	19.9
		e	15 02					i	17.9		
	OUL	eP	17 14 24				OUL	iP	20 52 06.4 U		
	H:		17 02 55.3					i	16.4		
			17.1 N, 61.5 W, 65 km				SOD	iP	20 51 55.2		
			Leeward Islands				H:		20 41 27.0		
25	NUR	eP	17 24 07						39.5 N, 144.4 E, depth N		
	KJN	iP	17 23 46.5	0.8	6.9	25	NUR	iP	20 53 45.5	0.6	8.5
		i	57.7					i	56.4		
	OUL	iP	17 23 45.3				KJN	iP	20 53 23.4	0.6	10.3
	SOD	eP	17 23 34					i	34.9	0.7	7.5
	H:		17 13 07.7				OUL	iP	20 53 22.8		
			39.8 N, 144.3 E, 35 km (G)					i	33.8		
			Honshu, Japan				SOD	iP	20 53 11.6		
25	NUR	eP	18 18 13					i	23.0		
	KJN	eP	18 17 50			25	NUR	eSKS	21 56 04		
	OUL	eP	18 17 46					eSS	22 04 04		
	SOD	eP	18 17 36				KJN	eP	21 45 24		
	H:		18 07 31.1				OUL	eP	21 45 29		
			43.9 N, 148.4 E, 65 km (G)					i	57.4		
			Kurile Islands				SOD	eP	21 45 26		
25	NUR	eP	18 34 31				KEV	iP	21 45 26.0		
		i	41.0					eSKS	55 52		
	KJN	eP	18 34 09					e	57 16		
		e	19	0.8	5.4			eSS	22 02 40		
	OUL	e	18 34 17				H:		21 32 13.5		
	SOD	e	18 34 07						0.4 N, 126.0 E, depth N		
	H:		18 23 29.0						Molucca Passage		
			39.6 N, 144.5 E, 35 km (G)			26	NUR	iP	02 19 57.1	0.8	24.0
			Honshu, Japan					i	20 00.8	0.9	23.0
25	KJN	eP	20 18 12					eS	23 31		
25	NUR	iP	20 34 45.0				KJN	iP	02 20 38.0 U	0.9	62.5
		i	56.0				OUL	iP	02 20 45.5		
	KJN	eP	20 34 23	1.0	10.9		SOD	iP	02 21 07.2		
		e	34	0.7	4.8			i	32.6		
	OUL	iP	20 34 22.2				KEV	iP	02 21 29.3	0.9	13.4
		i	33.2					e	26 40		
	SOD	eP	20 34 11				H:		02 15 38.8		
	H:		20 23 43.7						41.8 N, 20.1 E, 42 km		
			39.6 N, 144.2 E, depth N						Albania		
			Honshu, Japan			26	NUR	eP	03 30 33		
25	KJN	eP	20 51 52					i	36.0	0.7	10.1
									cont.		

August

				T	A					
	KJN	iP	03 30	31.6	0.8	4.6				
		i		34.5	0.8	10.0				
	OUL	eP	03 30	41						
		i		43.7						
	SOD	eP	03 30	47						
	H: 03 23 19.2									
	37.1 N, 72.7 E, 65 km									
	Tadzhik SSR									
26	NUR	eP	12 31	33						
26	OUL	iP	16 40	58.7						
26	NUR	iPKP	17 16	33.0	0.9	13.4				
		e		48						
		ePS	26	56						
		ePPS	28	06						
		eSS	33	00						
	KJN	ePKP	17 16	27						
	OUL	eP	17 12	22						
		i		34.8						
		iPKP	16	26.8						
		ePKKP	27	31						
	SOD	eP	17 12	18						
		ePKP	16	24						
		ePKKP	27	36						
	KEV	iPKP	17 16	22.0						
		eSKS	22	48						
		ePS	25	50						
		e	27	12						
		eSS	31	44						
		eSSS	35	26						
	H: 16 58 02.3									
	5.8 S, 151.2 E, 59 km									
	New Britain									
26	OUL	eP	20 47	35						
26	NUR	iP	20 53	53.1	0.7	12.9				
		i		54 04.8						
	KJN	eP	20 53	30						
	OUL	iP	20 53	28.2						
		i		40.0						
	SOD	iP	20 53	15.8						
	KEV	iP	20 53	04.0						
	H: 20 43 04.1									
	43.5 N, 147.7 E, 21 km									
	Kurile Islands									
26	NUR	eP	21 20	09						
	KJN	iP	21 20	08.8						
	OUL	eP	21 20	17						
	SOD	iP	21 20	24.4						
	KEV	eP	21 20	32						

August

				T	A					
26	NUR	eP	22 45	20						
	KJN	iP	22 45	09.0						
		i		16.5						
	OUL	eP	22 44	55						
	SOD	eP	22 44	49						
	KEV	eP	22 44	44						
	H: 22 40 47.9									
	66.5 N, 17.9 W, 3 km									
	Iceland									
26	NUR	eP	22 51	50	1.2	28.5				
		i		52.9						
		i		52 12.4						
	KJN	iP	22 51	42.5						
		i		52 03.2						
	OUL	iP	22 51	28.2						
	SOD	eP	22 51	21						
		i		25.0						
	KEV	iP	22 51	19.5	0.9	23.5				
	H: 22 47 25.9									
	66.3 N, 17.7 W, depth N									
	Iceland									
26	NUR	iP	23 50	07.7						
		i		18.8						
	KJN	iP	23 49	46.0						
		i		57.0						
	OUL	eP	23 49	44						
		i		55.4						
	SOD	eP	23 49	34						
	KEV	eP	23 49	15						
	H: 23 39 06.4									
	39.8 N, 144.3 E, 35 km (G)									
	Honshu, Japan									
26	KJN	eP	23 53	26						
	OUL	eP	23 53	12						
	SOD	eP	23 53	04						
	H: 23 49 08.8									
	66.4 N, 18.3 W, depth N									
	Iceland									
27	NUR	iP	00 21	03.5	0.7	15.5				
	KJN	eP	00 20	41						
	OUL	iP	00 20	38.4						
	SOD	eP	00 20	26						
	H: 00 10 16.9									
	43.6 N, 147.5 E, depth N									
	Kurile Islands									
27	NUR	iP	01 21	14.0	0.7	31.0				
		eS		30 04						
		eSS		34 40						

cont.

August						August						
				T	A							
	KJN	iP	01 20 51.5			27	NUR	iP	03 37 00.5 U	0.9	52.1	
	OUL	iP	01 20 48.1					eS	45 48			
		i	49.4				KJN	eP	03 36 37			
		i	56.6				OUL	iP	03 36 34.9			
	SOD	eP	01 20 36				SOD	iP	03 36 23.0			
		i	37.8				KEV	iP	03 36 10.7	0.7	18.1	
	KEV	iP	01 20 24.4	0.6	10.0			eS	44 16			
		eS	28 30					eSS	48 36			
		eScS	30 10					H:	03 26 16.1			
		eSS	32 32						43.7 N, 147.6 E, 50 km (G)			
		H:	01 10 30.1						Kurile Islands			
			43.6 N, 147.5 E, 60 km (G)				27	NUR	iP	03 37 41.0		
			Kurile Islands					KJN	iP	03 37 18.0		
27	NUR	iP	01 23 39.5 U	0.7	27.1			OUL	iP	03 37 16.0		
								SOD	iP	03 37 04.3		
	OUL	iP	01 23 14.2				27	NUR	iP	03 43 22.3 U	0.6	25.0
	SOD	iP	01 23 02.2					i	32.0			
	KEV	iP	01 22 49.9					KJN	iP	03 42 58.9		
		H:	01 12 55.2					i	43 10.7			
			43.4 N, 147.7 E, 60 km (G)					OUL	iP	03 42 57.0		
			Kurile Islands					i	43 09.0			
27	NUR	eP	01 27 58					SOD	eP	03 42 45		
	OUL	eP	01 27 33					KEV	iP	03 42 32.8		
	SOD	eP	01 27 21					H:	03 32 37.7			
27	NUR	iP	01 28 37.0						43.7 N, 147.4 E, 50 km (G)			
	KJN	eP	01 28 13						Kurile Islands			
	OUL	eP	01 28 11				27	OUL	iPKP	04 16 54.5		
	e		29					epPKP	17 17			
	SOD	iP	01 28 00.0					SOD	ePKP	04 16 58		
	KEV	eP	01 27 47					H:	03 57 59.0			
27	NUR	iP	01 39 20.9	0.7	15.5				57.4 S, 26.3 W, 97 km (D)			
	KJN	eP	01 38 57						South Sandwich Islands			
	OUL	iP	01 38 55.1				27	OUL	eP	05 02 36		
	SOD	eP	01 38 43					H:	04 53 13.6			
	KEV	eP	01 38 31						60.1 N, 153.0 W, 107 km			
		H:	01 28 34.1						Southern Alaska			
			43.6 N, 147.6 E, depth N				27	NUR	eP	10 28 42		
			Kurile Islands									
27	NUR	eP	02 40 37				27	NUR	iP	10 56 28.1		
	OUL	eP	02 40 12					KJN	eP	10 56 05	0.4	7.1
	SOD	eP	02 40 00					OUL	iP	10 56 02.8		
27	NUR	iP	02 42 05.0	0.7	16.8			SOD	eP	10 55 51		
		i	07.1									
	KJN	eP	02 41 43				27	NUR	eP	12 17 07		
	OUL	iP	02 41 41.1					KJN	iP	12 16 58.6	0.8	24.6
	SOD	iP	02 41 29.0					OUL	iP	12 16 45.9		
		H:	02 31 20.7					SOD	eP	12 16 38		
			43.7 N, 147.5 E, 40 km (G)					i	41.3			
			Kurile Islands						cont.			

August

August

OUL eP 11 28 25

Moscow:

H: 11 22 43

41.0 N, 48.9 E

Caucasus

28 NUR eP 12 45 53

28 KJN eP 13 17 07

OUL eP 13 17 09

H: 13 06 09.5

26.8 N, 126.5 E, 127 km

Ryukyu Islands

28 NUR iPKP 14 13 53.2 0.7 24.5

i 56.9

i 14 08.3

i 22.0

ePP 17 44

e 24 12

eSKSP 27 45

eSS 36 16

KJN ePKP 14 13 41 0.9 10.7

i 56.8 1.2 70.5

i 14 11.0

OUL ePKP 14 13 44

i 14 18.4

SOD ePKP 14 13 42

KEV ePKP 14 13 36

e 14 04

ePP 16 28

eSS 34 48

H: 13 54 11.0

31.5 S, 177.9 W, 29 km

Kermadec Islands

28 NUR iP 14 33 20.0 0.8 8.6

28 NUR eP 15 04 34

KJN eP 15 04 10

OUL eP 15 04 09

SOD eP 15 03 56

28 NUR iP 15 27 41.9 0.9 16.8

e 52

KEV eP 15 27 15

28 NUR eP 15 55 33

KJN eP 15 55 10

SOD iP 15 54 57.3

28 NUR eP 16 26 33

cont.

KJN eP 16 26 09

OUL eP 16 26 08

SOD eP 16 25 56

H: 16 15 47.2

43.7 N, 147.7 E, depth N

Kurile Islands

28 NUR ePKP 17 09 39 1.5 144.8

e 50

eSKS 17 24

eSKSP 23 52

KJN iPKP 17 09 27.0 D 1.6 173.3

e 36

OUL ePKP 17 09 27

SOD ePKP 17 09 22

KEV ePKP 17 09 21

e 17 24

H: 16 49 56.8

31.7 S, 177.8 W, 23 km

Kermadec Islands

28 NUR eP 18 52 52

28 KJN iP 19 56 33.6 0.9 8.9

OUL iP 19 56 38.9

28 NUR iP 21 46 09.1 0.8 25.9

ePcS 50 44

eS 55 00

eScS 56 08

eSS 59 28

KJN iP 21 45 45.8 0.9 22.3

i 58.1 0.8 19.2

OUL iP 21 45 43.8

i 56.0

SOD iP 21 45 31.4

i 46.2

KEV iP 21 45 19.5 0.9 20.2

ePPP 48 44

eS 53 28

eScS 55 06

eSS 57 24

H: 21 35 23.4

43.5 N, 147.7 E, 52 km

Kurile Islands

28 NUR eP 22 19 35

OUL eP 22 19 10

28 NUR eP 23 13 47

i 14 00.1 0.8 11.5

KJN eP 23 13 45

cont.

August

August

August				T	A	August				T	A
	OUL	eP	05 59 44				OUL	eP	07 32 31		
	SOD	eP	05 59 32				SOD	eP	07 32 19		
		i	48.0				KEV	eP	07 32 09		
	KEV	eP	05 59 20				H: 07 22 10.9				
							43.6 N, 147.7 E, 45 km (G)				
30	NUR	iP	07 03 20.8	0.9	30.2		Kurile Islands				
		eS	12 12								
	KJN	iP	07 02 57.6 U	0.6	15.8	30	NUR	eP	07 38 52		
		i	03 03.6				KJN	iP	07 38 28.8		
	OUL	iP	07 02 55.0				OUL	eP	07 38 27		
		i	03 01.0				SOD	eP	07 38 15		
	SOD	iP	07 02 43.6								
	KEV	iP	07 02 31.1	0.9	15.1	30	NUR	iP	07 52 29.5	0.9	38.6
		ePcP	03 20					i	41.2		
		eS	10 40				KJN	eP	07 52 05	0.7	27.4
		eSS	14 48					i	06.5		
								i	17.2		
	H: 06 52 34.7						OUL	iP	07 52 04.0		
	43.6 N, 147.9 E, 38 km						SOD	iP	07 51 52.2		
	Kurile Islands						KEV	iP	07 51 40.1	0.8	18.7
30	NUR	iP	07 22 26.0	0.8	168.5		H: 07 41 43.4				
		i	27.5				43.7 N, 147.9 E, depth N				
		i	38.0				Kurile Islands				
		iPcP	56.5								
		ePPP	26 28			30	NUR	iP	07 53 29.5		
		eS	31 12				KJN	iP	07 53 05.8	0.5	11.0
		eScS	32 28				OUL	iP	07 53 03.5		
		eSS	36 00					iPcP	40.0		
	KJN	iP	07 22 02.2	0.8	123.0		SOD	iP	07 52 52.0		
		i	03.7				KEV	eP	07 52 41		
		i	16.5								
		i	23 12.1			30	NUR	eP	08 05 12	0.6	38.8
	OUL	eP	07 22 00					i	13.7		
		i	01.5					i	24.1		
	SOD	iP	07 21 47.8				KJN	eP	08 04 49	0.7	27.4
		i	49.9					i	50.8		
		iPcP	22 17.8					i	55.7		
	KEV	iP	07 21 35.8	0.7	52.8			iPcP	05 28.7		
		i	36.2				OUL	eP	08 04 47		
		ePcP	22 28					i	48.3		
		ePPP	25 14					i	53.0		
		eS	29 48				SOD	eP	08 04 36		
		eScS	31 28					i	39.7		
		e	34 00				KEV	iP	08 04 24.0		
		eSSS	36 20				H: 07 54 29.5				
		eLQ	07 38.0				43.4 N, 146.5 E, 43 km				
	H: 07 11 39.5						Kurile Islands				
	43.7 N, 147.8 E, depth N					30	NUR	eP	08 38 52	0.8	54.7
	Kurile Islands							i	53.4		
30	NUR	iP	07 32 56.0					i	39 03.0		
	KJN	iP	07 32 33.0	0.9	9.8			eSS	52 20		
			cont.						cont.		

August

				T	A
KJN	iP	08 38 29.0		0.9	45.5
OUL	iP	08 38 27.4			
SOD	iP	08 38 15.6			
	i	26.0			
	i	39 02.8			
KEV	iP	08 38 03.2			
	eS	46 20			
	eScS	48 00			
	eSS	50 08			
H: 08 28 06.5					
43.6 N, 147.8 E, depth N					
Kurile Islands					
30	NUR	iP	08 40 40.8		
30	NUR	eP	08 42 01		
	KJN	eP	08 41 36		
	OUL	eP	08 41 35		
	SOD	eP	08 41 23		
	KEV	eP	08 41 11		
30	NUR	eP	08 48 06	0.6	12.5
	i	07.5			
	KJN	eP	08 47 43		
	OUL	iP	08 47 41.6		
	SOD	eP	08 47 29		
	KEV	iP	08 47 16.8		
H: 08 37 21.0					
43.8 N, 148.0 E, depth N					
Kurile Islands					
30	NUR	iP	08 55 50.1		
	KJN	iP	08 55 26.5		
	OUL	iP	08 55 25.0		
	SOD	eP	08 55 13		
	KEV	eP	08 55 01		
30	NUR	iP	08 58 52.0	0.6	11.3
	KJN	iP	08 58 28.5 U	0.6	9.6
	OUL	iP	08 58 26.9 U		
	SOD	iP	08 58 15.0		
	KEV	iP	08 58 02.5		
H: 08 48 08.2					
44.0 N, 147.9 E, 40 km (G)					
Kurile Islands					
30	OUL	eP	08 58 57		
30	NUR	iP	10 12 47.0	0.9	18.5
	KJN	iP	10 12 23.0	0.7	11.0
	OUL	iP	10 12 21.8		
	SOD	iP	10 12 09.2		
	i	21.8			
cont.					

August

				T	A
			ePcP		53
	KEV	eP	10 11 57		
H: 10 02 01.6					
43.9 N, 148.0 E, 39 km (D)					
Kurile Islands					
30	NUR	eP	10 22 27		
	KJN	eP	10 22 04		
	OUL	eP	10 22 02		
	SOD	eP	10 21 49		
	KEV	eP	10 21 37		
30	NUR	eP	11 36 50		
	KJN	iP	11 36 26.8		
	OUL	eP	11 36 25		
	e		41		
	SOD	eP	11 36 12		
30	KJN	eP	13 05 59		
	OUL	eP	13 06 00		
	SOD	eP	13 05 54		
	iPKKP		21 21.5		
	KEV	eP	13 05 49		
H: 12 51 57.9					
5.7 S, 148.3 E, 167 km					
New Britain					
30	NUR	iP	13 45 05.1	0.8	10.1
	i		26.5		
30	NUR	iP	18 51 39.0		
	KJN	iP	18 51 15.7 D	0.6	7.5
	i		27.0		
	OUL	eP	18 51 13		
	SOD	eP	18 51 01		
	KEV	eP	18 50 49		
H: 18 40 52.1					
43.8 N, 147.9 E, 25 km (G)					
Kurile Islands					
30	NUR	eP	19 51 29		
	KJN	eP	19 51 12		
	OUL	eP	19 51 10		
	SOD	eP	19 51 04		
H: 19 40 32.2					
28.7 N, 140.0 E, 527 km					
Bonin Islands					
31	NUR	eP	01 11 06	1.0	16.0
	KJN	eP	01 10 44		
	OUL	eP	01 10 41		



August						August							
				T	A								
						T			A				
31	KJN	eP	04 21 01			31	NUR	eP	17 05 32				
	OUL	eP	04 20 59					i	43.0	0.9	11.8		
	SOD	eP	04 21 04										
	H: 04 07 48.2						31	SOD	iP	17 35 35.0			
	1.1 N, 126.0 E, 19 km												
	Molucca Passage						31	NUR	iP	17 39 35.5			
								KJN	eP	17 39 25			
31	NUR	iPKP	11 11 43.5										
		iSKP	14 49.2				31	NUR	iPKP	20 17 25.0	0.8	10.1	
		ePKS	15 06						iSKP	20 46.0			
	OUL	ePKP	11 11 36					KJN	ePKP	20 17 19			
	H: 10 52 55.3							OUL	ePKP	20 17 18			
	18.8 S, 169.0 E, 207 km							SOD	ePKP	20 17 14			
	New Hebrides Islands							H: 19 58 17.4					
31	SOD	eP	11 53 08					18.2 S, 168.1 E, 32 km					
								New Hebrides Islands					
31	NUR	eP	11 55 14	1.0	14.0								
	KJN	iP	11 55 03.0	1.1	37.8								
		i	07.8										
	OUL	eP	11 55 05				31	NUR	iP	22 27 46.0	0.8	11.5	
	SOD	eP	11 55 02					KJN	eP	22 27 23			
	H: 11 42 42.3							OUL	iP	22 27 22.4			
	11.8 N, 125.9 E, 52 km							SOD	iP	22 27 10.4			
	Samar, P.I.							H: 22 17 04.7					
								43.4 N, 146.7 E, 59 km					
								Kurile Islands					
31	NUR	eP	12 19 34										
	KJN	eP	12 18 57				31	OUL	eP	23 59 18			
	OUL	eP	12 18 41					SOD	eP	23 59 12			
	SOD	eP	12 18 12					KEV	eS	24 09 40			
								H: 23 46 33.4					
31	NUR	iP	13 17 52.2 U					17.7 N, 101.5 W, 72 km					
		epP	18 07					Guerrero, Mexico					
		eS	28 12										
		eSS	34 08										
	KJN	iP	13 17 50.0 U	0.7	28.8								
		ipP	18 08.9										
		eS	28 24										
		e	53										
	OUL	iP	13 17 54.6 U										
		ipP	18 12.1										
	SOD	iP	13 17 56.0 U										
		ipP	18 13.2										
	KEV	iP	13 17 58.0 U	0.9	37.0								
		ipP	18 15.6										
	H: 13 05 08.6												
	4.5 S, 102.3 E, 64 km (D)												
	Southern Sumatra												

October 23, 1970

Urmas Luosto
Aili Huovila

September						September				
				T	A					
	ePKKP	16 02				2	NUR eP	08 53 28		
	i	05.4					SOD eP	08 52 51		
OUL	iPKP	04 05 31.5					H: 08 42 38.9			
	epPKP	06 19					43.1 N, 147.2 E, depth N			
	ePKKP	16 05					Kurile Islands			
	i	08.2				2	KJN eP	11 53 40		
SOD	ePKP	04 05 33					SOD eP	11 53 50		
	ePKKP	16 05					e	56		
KEV	e	04 13 28					H: 11 41 46.0			
	eSP	16 00					7.1 S, 13.1 W, 32 km			
	eSS	22 40					Ascension Island			
	H: 03 47 09.1					2	NUR eP	12 47 54		
	27.7 S, 66.5 W, 174 km (D)						OUL iP	12 47 36.2		
	Catamarca, Argentina						H: 12 37 05.9			
2	NUR	iP	05 03 38.9	0.6	23.8		29.8 N, 137.3 E, 486 km			
	i		45.2				South of Honshu, Japan			
	i		59.0			2	KJN iP	12 51 38.0	0.6	8.2
	i	06 10.2					i	47.0		
	iS		32.1				OUL eP	12 51 40		
	i	08 25.0					SOD eP	12 51 39		
KJN	iP	05 03 27.8	0.5	107.3			H: 12 38 36.7			
	i		39.0				2.9 N, 126.7 E, 47 km			
	iS	06 05.8					Molucca Passage			
	i	07 45.5				2	NUR iP	13 37 16.5		
OUL	iP	05 03 39.4					eS	43 04		
	i		46.9				KJN eP	13 37 28		
	iS	06 34.9					ePP	38 57		
SOD	eP	05 03 46					OUL eP	13 37 38		
	i		54.0				SOD eP	13 37 51		
KEV	iP	05 03 59.4					H: 13 30 03.5			
	i	04 02.0					30.2 N, 57.7 E, 20 km			
	iS	07 10.0					Iran			
	e	09 26				2	NUR iP	15 30 50.7	0.4	13.4
	H: 04 59 57.4						KJN iP	15 30 27.1	0.6	8.9
	57.4 N, 54.9 E, 0 km (G)						OUL iP	15 30 25.4		
	Western Russia						SOD eP	15 30 13		
2	NUR	eP	07 34 11	0.7	12.9		KEV eP	15 30 01		
	KJN	iP	07 33 53.3 D	0.6	25.3		H: 15 20 02.8			
	OUL	iP	07 33 54.3				43.4 N, 147.3 E, depth N			
	SOD	iP	07 33 46.9				Kurile Islands			
	KEV	eP	07 33 41	0.9	10.1	2	NUR iP	18 12 03.0	0.7	24.5
	H: 07 22 49.4						i	05.5		
	30.3 N, 131.0 E, 15 km						KJN iP	18 11 52.2	0.7	34.3
	Kyushu, Japan						OUL iP	18 11 51.0		
2	OUL	iP	08 46 39.8				cont.			
	H: 08 36 31.6									
	51.8 N, 176.6 E, 62 km									
	Hat Islands									

September

September

		T	A			T	A
	SOD ePKP 18 11 52 H: 17 52 37.5 33.2 S, 179.8 E, 162 km South of Kermadec Islands			3	NUR eP 16 31 59 i 32 12.0 eS 41 32 e 43 04 eSS 46 22 eSSS 50 00		
2	NUR eP 19 35 53 i 36 01.7 KJN eP 19 35 57			KJN iP 16 31 40.3 ePP 34 11 OUL iP 16 31 41.8 SOD eP 16 31 30 i 34.2 eS 40 48 KEV eP 16 31 23 eS 40 22 eSS 44 55 H: 16 20 21.5 31.5 N, 140.2 E, 16 km South of Honshu, Japan	1.8	300.2	
2	NUR ePKP 20 46 41 i 48.8 KJN ePKP 20 46 36 OUL iPKP 20 46 32.5 H: 20 27 01.1 30.5 S, 178.0 W, 16 km Kermadec Islands	0.8	25.9				
2	SOD iPKP 20 58 44.8 H: 20 39 39.9 55.6 S, 26.9 W, depth N South Sandwich Islands			3	SOD eP 21 45 25 H: 21 35 15.2 42.5 N, 147.0 E, 69 km Hokkaido, Japan		
3	NUR eP 01 45 07 KJN iP 01 44 58.5 OUL eP 01 45 00 SOD iP 01 44 55.7 H: 01 32 00.8 4.4 N, 128.4 E, 58 km North of Halmahera	0.9	10.1				
				3	NUR eP 22 12 20 i 33.1 KJN eP 22 11 57 OUL eP 22 11 54 SOD eP 22 11 43 H: 22 01 31.4 43.1 N, 147.5 E, depth N Kurile Islands	0.8	8.5
3	NUR eP 05 08 37 KJN iP 05 08 35.0 U OUL iP 05 08 40.5 U SOD iP 05 08 42.5 KEV eP 05 08 46 H: 04 56 25.2 1.5 N, 98.0 E, 22 km (D) Northern Sumatra	0.8	9.2	3	NUR iP 22 20 20.6 KJN eP 22 20 02 iPcP 30.5 OUL eP 22 20 04 SOD eP 22 19 55 KEV iP 22 19 48.5 H: 22 09 23.1 32.9 N, 131.2 E, 98 km Kyushu, Japan		
3	NUR ePKP 05 33 15 i 27.9 KJN ePKP 05 33 07 SOD ePKP 05 32 58 H: 05 13 47.7 31.9 S, 178.0 W, 141 km Kermadec Islands	0.9	16.8	3	KJN iP 23 45 55.8 OUL iP 23 46 06.3 SOD eP 23 46 18 H: 23 39 03.0 34.3 N, 58.3 E, depth N Iran	1.0	10.9
3	NUR iP 07 07 24.2 KJN iP 07 07 00.7 OUL iP 07 06 59.4 SOD eP 07 06 47 H: 06 56 36.6 43.4 N, 147.5 E, depth N Kurile Islands	0.7	5.2	3	NUR eP 23 49 09 SOD eP 23 49 42		



September

September

September				September			
	T	A		T	A		
5	NUR eP	15 56 24		KEV eP	22 17 00		
	KJN eP	15 56 04		e	26		
	H:	15 44 57.1		H:	22 06 16.9		
		31.1 N, 140.6 E, 143 km			29.0 N, 128.9 E, 107 km		
		South of Honshu, Japan			East China Sea		
5	NUR eP	17 15 16		6	NUR eP	01 19 08	
	e	29		KJN eP	01 18 58		
	H:	17 04 14.5		i	19 26.8		
		37.2 N, 142.0 E, 56 km		SOD eP	01 19 02		
		Honshu, Japan		H:	01 06 00.2		
					3.2 N, 126.5 E, 63 km		
					Talaud Islands		
5	NUR eP	17 58 51		6	NUR eP	07 54 14	0.5 32.3
	eS	18 03 00		i	15.0		
	KJN eP	17 59 17		e	30		
	OUL eP	17 59 27		ePPP	58 28		
	SOD e	18 00 15		eS	08 02 56		
	H:	17 53 49.3		eScS	04 24		
		38.9 N, 37.1 E, 53 km		eSS	07 52		
		Turkey		eSSS	10 18		
5	KJN ePKP	20 07 52		KJN iP	07 53 51.4	0.5 41.2	
	H:	19 49 36.7		i	59.0		
		15.8 S, 176.7 W, 458 km		OUL iP	07 53 49.5		
		Fiji Islands		SOD iP	07 53 36.3		
				i	37.4		
5	NUR eP	20 22 48		KEV eP	07 53 25	0.7 16.8	
	KJN eP	20 22 25		i	27.5		
	SOD eP	20 22 12		ePcP	54 16		
	H:	20 12 01.3		ePPP	56 56		
		43.6 N, 146.9 E, depth N		eS	08 01 20		
		Kurile Islands		eScS	03 12		
				eSS	05 32		
5	NUR iP	21 19 59.2		H:	07 43 29.8		
	KJN iP	21 19 56.2			43.7 N, 147.3 E, depth N		
					Kurile Islands		
5	NUR ePKP	21 20 22		6	NUR iP	11 51 59.0	0.5 12.9
	i	24.2	0.5 10.3	iPcP	52 36.5		
	KJN ePKP	21 20 12		e	53 08		
	OUL ePKP	21 20 14		e	12 01 24		
	SOD ePKP	21 20 08		KJN iP	11 51 33.1	1.0 41.4	
	H:	21 00 55.1		i	35.5		
		30.6 S, 178.3 W, 100 km (G)		iPcP	52 21.6		
		Kermadec Islands		ePP	53 56		
5	NUR eP	22 17 28	0.6 6.1	OUL iP	11 51 32.0		
	i	46.3		SOD iP	11 51 18.0		
	KJN iP	22 17 11.4	0.6 12.3	epP	59		
	OUL iP	22 17 14.0		KEV iP	11 51 04.2	0.8 15.8	
	i	36.5		H:	11 41 50.6		
	SOD eP	22 17 05			49.5 N, 153.3 E, 170 km		
	i	29.3			Kurile Islands		
		cont.					

September

September

		T	A		
6	NUR iP	14 37	12.6 U	1.1	386.8
	i		37.5		
	i	38	00.0		
	iPP		13.0		
	iPcP	39	56.8		
	eS	42	28		
	eSS	44	36		
KJN	iP	14 37	39.0 U	0.7	56.9
	iPP	39	01.3		
OUL	iP	14 37	37.6 U		
	iPP	39	02.9		
SOD	iP	14 37	51.0 U		
	ePP	39	16		
	eS	43	36		
KEV	iP	14 38	03.2 U	1.0	380.0
	i		11.2		
	i		46.1		
	ePP	39	28		
	eS	43	56		
H: 14 30 39.5					
36.9 N, 11.9 W, depth N					
North Atlantic Ocean					
6	NUR ePKP	15 08	43		
	ePPS	20	26		
	eSS	26	24		
	eSSS	30	20		
KJN	iPKP	15 08	37.0		
	i		44.0		
OUL	ePKP	15 08	38		
SOD	ePKP	15 08	35		
KEV	ePKP	15 08	32		
	ePS	18	40		
	eSS	24	48		
	eSSS	28	48		
H: 14 49 55.9					
8.8 S, 157.8 E, 15 km					
Solomon Islands					
6	NUR iP	16 28	52.5	1.0	29.4
KJN	eP	16 28	34	0.9	29.5
	i		35.5		
OUL	eP	16 28	35		
SOD	iP	16 28	26.3		
KEV	iP	16 28	18.1	1.4	65.6
H: 16 17 15.5					
30.0 N, 140.6 E, 89 km					
South of Honshu, Japan					
6	NUR iPcP	17 26	50.5	1.0	13.7
	ePPS	39	20		
	eSS	44	28		
cont.					

		T	A		
KJN	ePKP	17 26	43		
OUL	ePKP	17 26	44		
H: 17 08 03.2					
8.9 S, 157.9 E, 10 km					
Solomon Islands					
6	NUR eP	19 09	26		
KJN	eP	19 09	03		
SOD	e	19 09	03		
H: 18 58 39.1					
43.3 N, 146.7 E, depth N					
Kurile Islands					
6	NUR iP	20 35	48.3	1.0	17.6
	i		36 04.4		
	i		18.0		
	eS	40	06		
KJN	iP	20 36	19.6 U	0.8	25.9
	ipP		38.7		
	ePcP	39	44		
OUL	iP	20 36	29.4		
	ipP		48.5		
SOD	eP	20 36	50		
	i	37	06.1		
KEV	iP	20 37	11.0	0.9	16.8
	ipP		29.0		
H: 20 30 39.6					
36.8 N, 28.4 E, 67 km					
Dodecanese Islands					
6	NUR iPcP	22 28	15.6		
KJN	iPKP	22 28	08.4		
OUL	iPKP	22 28	08.1		
SOD	ePKP	22 28	04		
H: 22 09 30.6					
18.7 S, 169.2 E, 233 km					
New Hebrides Islands					
7	NUR iP	00 34	40.8 U	0.9	29.5
	i		49.5		
	ePS	44	12		
KJN	iP	00 34	22.0 U	0.5	76.6
	i		30.4		
OUL	iP	00 34	23.6		
SOD	iP	00 34	14.8 U		
KEV	iP	00 34	07.0 U	0.9	48.7
H: 00 23 44.8					
33.6 N, 131.5 E, 91 km (D)					
Kyushu, Japan					
7	NUR iP	05 13	41.6		
KJN	iP	05 13	31.4		
cont.					



September				September			
		T	A		T	A	
	OUL eP	05 13 35					
	SOD iP	05 13 30.2					
	H:	05 00 46.1					
	2.8 N, 128.6 E, 217 km						
	Halmahera						
7	NUR iP	06 51 27.4	0.6	9.8			
	KJN iP	06 51 05.0					
	OUL eP	06 51 03					
	SOD iP	06 50 51.0 U					
	H:	06 40 38.4					
	43.1 N, 147.7 E, depth N						
	Kurile Islands						
7	NUR ePKP	08 58 55					
	OUL ePKP	08 58 49					
	H:	08 40 34.3					
	6.6 S, 155.8 E, 173 km						
	Solomon Islands						
7	NUR eP	12 44 34					
	KJN iP	12 44 16.0					
	i	25.5					
	H:	12 33 51.1					
	43.0 N, 146.8 E, depth N						
	Kurile Islands						
7	KJN eP	13 59 35					
	H:	13 48 20.3					
	30.5 N, 141.0 E, 97 km						
	South of Honshu, Japan						
7	NUR eP	17 58 41					
7	NUR iP	18 54 25.5 D	0.5	17.2			
	KJN iP	18 54 02.8 D	0.5	18.4			
	i	14.0					
	OUL iP	18 54 01.3					
	i	12.7					
	SOD eP	18 53 49					
	H:	18 43 37.8					
	43.4 N, 148.1 E, depth N						
	Kurile Islands						
7	NUR eP	20 14 53					
	KJN iP	20 14 30.0	0.5	7.4			
	OUL eP	20 14 28					
	SOD eP	20 14 16					
	H:	20 04 11.2					
	43.4 N, 147.5 E, 84 km						
	Kurile Islands						
8	NUR eP	02 48 48					
	cont.						
	KJN iP	02 48 24.5	0.7	6.2			
	OUL eP	02 48 23					
	SOD eP	02 48 11					
	KEV eP	02 47 59					
	H:	02 37 59.2					
	43.1 N, 147.3 E, depth N						
	Kurile Islands						
8	NUR iP	05 03 38.9	0.6	26.3			
	i	49.0					
	i	59.8					
	e	06 08					
	eS	32					
	i	08 25.0					
	KJN iP	05 03 28.2 U	0.4	120.6			
	i	36.8					
	eS	06 06					
	e	07 48					
	OUL iP	05 03 39.7					
	i	47.6					
	eS	06 35					
	SOD eP	05 03 47					
	i	54.4					
	e	05 44					
	iS	06 52.6					
	KEV iP	05 03 59.2					
	e	06 32					
	eS	07 08					
	e	09 22					
	H:	04 59 56.1					
	57.4 N, 55.1 E, 0 km (G)						
	Ural Mountains						
8	NUR iPKP	13 04 07.0	0.8	14.4			
	i	09.8					
	eSS	20 36					
	eSSS	25 24					
	KJN iP	12 59 58.3	1.0	12.0			
	iPKP	13 04 01.9	0.7	8.9			
	i	03.7					
	ePP	23					
	OUL eP	13 00 00					
	iPKP	04 01.6					
	SOD eP	12 59 52					
	KEV eSKS	13 10 28					
	ePS	13 28					
	eSS	19 20					
	eSSS	23 40					
	H:	12 45 34.6					
	5.1 S, 153.4 E, 47 km						
	New Ireland						

September						September				
				T	A			T	A	
8	NUR	iP	14 50 35.0			9	KJN	eP	06 11 20	
							OUL	eP	06 11 20	
8	NUR	ePKP	18 11 13			9	KJN	iP	07 49 48.5	0.5 8.8
	KJN	ePKP	18 11 05				OUL	eP	07 49 55	
	OUL	ePKP	18 11 04				SOD	eP	07 49 48	
	SOD	ePKP	18 11 00				KEV	eP	07 49 45	
	H:		17 52 26.5				H:		07 37 37.6	
			14.9 S, 167.4 E 152 km						12.7 N, 123.0 E, 45 km	
			New Hebrides Islands						Luzon, P.I.	
8	NUR	iP	21 08 24.0	0.6	10.0	9	NUR	eP	16 57 09	
		i	35.6				KJN	eP	16 57 32	
	KJN	iP	21 08 01.0	0.6	9.6		H:		16 46 44.0	
		i	12.2						2.6 S, 24.7 E, depth N	
	OUL	eP	21 07 59						Republic of the Congo	
		i	08 11.0			10	NUR	eP	00 03 22	
	SOD	iP	21 07 47.0				H:		23 52 33.4	
		i	59.5						42.9 N, 147.2 E, depth N	
	KEV	iP	21 07 35.2	0.7	10.3				Hokkaido, Japan	
	H:		20 57 36.7			10	NUR	eP	03 14 13	
			43.6 N, 147.9 E, depth N				KJN	eP	03 14 33	
			Kurile Islands			10	NUR	eP	07 57 39	
9	NUR	eP	03 35 34				i	47.5		
	KJN	eP	03 35 10				KJN	eP	07 57 18	0.8 10.0
	H:		03 25 03.5				i	32.0		
			47.3 N, 153.1 E, 78 km				OUL	iP	07 57 15.7	
			Kurile Islands				SOD	eP	07 57 03	
9	NUR	eP	05 26 42	1.0	22.0		KEV	iP	07 56 52.8	
		i	48.0	1.0	154.0		e	57 36		
		ePP	29 12				H:		07 46 57.9	
		eS	35 58						44.0 N, 148.1 E, 54 km	
		eSS	40 16						Kurile Islands	
		eLQ	05 45.0			10	NUR	eP	12 19 09	1.4 274.7
	KJN	iP	05 26 23.0	0.6	8.2		i	15.1		
		i	28.2	1.0	169.0		ePP	41		
	OUL	eP	05 26 21				i	21 20.1		
		i	29.5				eS	23 37		
	SOD	eP	05 26 14				eLR	12 25.5		
		i	19.3				KJN	iP	12 19 31.0 U	1.0 74.1
		i	32.4				eS	24 10		
	KEV	eP	05 26 06	0.6	12.5		OUL	iP	12 19 42.0	
		i	11.0	1.0	90.0		SOD	iP	12 20 00.7	
		eS	34 36				i	05.1		
		e	35 36				i	34.3		
		eSS	38 32				ePP	21 05		
		eSSS	41 32				eS	25 08		
	LZ			18	35.9u		KEV	iP	12 20 19.7	
	LN			18	17.8u				cont.	
	LE			18	22.9u					
	H:		05 15 37.7							
			35.7 N, 137.0 E, 29 km							
			Honshu, Japan							

September

September

				T	A					T	A
	iPP		21 21.3			11	NUR	eP	06 31 56	0.6	6.3
	e		25 44				KJN	iP	06 31 35.7	0.6	13.7
	e		26 22				OUL	iP	06 31 35.0		
	H: 12 14 00.4						SOD	iP	06 31 24.3		
	39.2 N, 41.4 E, 50 km										
	Turkey					11	NUR	eP	09 11 59		
10	NUR	eP	16 49 21				KJN	eP	09 11 34		
10	NUR	eP	21 11 32	1.0	12.0		OUL	iP	09 11 27.8		
	KJN	iP	21 11 19.0	1.2	25.8		H: 09 01 16.4				
	OUL	eP	21 11 11				53.9 N, 164.5 W, depth N				
	SOD	eP	21 11 01				Unimak Island				
	KEV	iP	21 10 49.5	0.5	7.9	11	KJN	eP	19 36 08		
	H: 21 00 00.1						H: 19 23 01.5				
	39.4 N, 107.9 W, 0 km						1.2 N, 126.3 E, 51 km				
	Colorado						Molucca Passage				
11	NUR	iP	03 28 35.0	0.9	40.3	12	NUR	iP	02 26 13.0		
	i		44.6				KJN	eP	02 25 51		
	eS		38 08				OUL	eP	02 25 49		
	eSS		43 20				SOD	eP	02 25 37		
	eSSS		46 34				H: 02 15 32.1				
	KJN	iP	03 28 18.7 U	0.9	44.7		43.4 N, 146.4 E, 62 km				
	i		28.4				Kurile Islands				
	OUL	iP	03 28 21.2 U			12	KJN	ePKP	02 36 53		
	i		31.4				OUL	ePKP	02 36 50		
	SOD	iP	03 28 14.3 U				H: 02 18 48.6				
	i		23.0				17.9 S, 178.5 W, 597 km				
	KEV	iP	03 28 07.9	0.8	37.4		Fiji Islands				
	i		18.2			12	NUR	eP	03 27 33		
	eS		37 20				KJN	eP	03 27 02		
	eSS		42 12				KEV	eP	03 26 38		
	H: 03 17 00.1					12	NUR	ePKP	03 33 45		
	26.1 N, 128.5 E, 25 km						i		51.0		
	Ryukyu Islands						eSKP		37 14		
11	NUR	iP	04 08 21.4				ePKS		22		
	e		58				KJN	iPKP	03 33 43.6 U	0.8	13.1
	iPP		09 23.3				eSKP		37 02		
	KJN	iP	04 08 09.0	0.5	14.7		OUL	ePKP	03 33 41		
	OUL	iP	04 08 16.8				SOD	ePKP	03 33 40		
	SOD	iP	04 08 16.0				KEV	iPKP	03 33 34.6	0.9	37.0
	i		54.0				H: 03 14 44.9				
	KEV	iP	04 08 18.4				18.6 S, 174.9 W, 134 km				
	e		09 17				Tonga Islands				
	H: 04 01 57.1					12	NUR	iP	05 15 00.5 D	0.7	34.8
	49.7 N, 78.1 E, 0 km (G)						ipP		42.8		
	Eastern Kazakh SSR						esP		16 05		
11	KJN	eP	06 31 14				ePP		29		
	H: 06 20 39.8						eS		20 34		
	38.2 N, 141.7 E, 94 km						cont.				
	Honshu, Japan										

September

September

T A

T A

KJN iP 05 15 00.5 D 0.7 32.9
epP 43
OUL iP 05 15 10.1 D
ipP 51.5
i 16 14.9
SOD iP 05 15 16.4 D
epP 58
iPP 16 47.2
KEV iP 05 15 25.2 0.7 29.7
ePP 16 58
H: 05 08 01.6
36.4 N, 70.9 E, 198 km
Hindu Kush

12 NUR iP 07 26 39.0 U 0.9 75.6
KJN iP 07 26 14.2 U 1.0 39.2
OUL iP 07 26 09.4
SOD eP 07 25 54
H: 07 15 50.0
51.3 N, 179.2 W, 44 km
Andreanof Islands

12 NUR iP 07 53 33.0 D 0.8 36.0
KJN iP 07 53 07.7 1.1 29.7
OUL iP 07 53 02.9 D
SOD e 07 52 59
KEV eP 07 52 28
e 46
H: 07 42 43.7
51.1 N, 179.1 W, 48 km
Andreanof Islands

12 NUR eP 08 10 36
OUL eP 08 10 06
H: 07 59 47.5
51.2 N, 179.2 W, 43 km
Andreanof Islands

12 NUR iP 08 11 05.9 U 0.9 89.0
i 25.5
ePPP 15 08
eS 19 54
KJN iP 08 10 41.2 U 0.9 28.6
iPcP 11 16.0
OUL iP 08 10 36.1 U
SOD eP 08 10 21
KEV eP 08 10 06
ePP 12 16
ePS 18 24
eSS 22 08
H: 08 00 16.8
51.1 N, 179.3 W, 49 km
Andreanof Islands

12 NUR iP 08 16 57.5 1.0 46.0
e 17 12
KJN iP 08 16 33.0 1.0 20.7
OUL iP 08 16 27.7
SOD eP 08 16 12
H: 08 06 08.8
51.1 N, 179.2 W, 55 km
Andreanof Islands

12 NUR eP 08 18 31 1.0 14.0
KJN eP 08 18 05
OUL iP 08 18 00.6

12 NUR iP 08 20 13.5 U 1.0 120.0
KJN iP 08 19 48.9 1.0 41.4
e 21 50
OUL iP 08 19 43.7 U
SOD iP 08 19 28.7 U
KEV iP 08 19 14.6 1.0 26.0
H: 08 09 24.4
51.1 N, 179.2 W, 46 km
Andreanof Islands

12 NUR eP 08 55 30
KJN eP 08 55 06
OUL eP 08 55 01
H: 08 44 42.2
51.2 N, 179.1 W, 48 km
Andreanof Islands

12 NUR iP 09 07 56.0 U 1.2 592.8
e 09 50
iPP 10 33.0
ePPP 12 10
iS 16 55.3
ePS 17 30
eSS 21 00
eSSS 24 20
eP'P' 36 23
eLR 09 29.0

LZ 20 75.0u
LN 18 47.9u
LE 20 26.8u

KJN iP 09 07 30.6 U 1.2 313.0
iPcP 08 10.0
iPP 10 00.2
iScP 12 12.0
eS 16 05
eScS 17 24
eP'P' 36 29
i 35.3
OUL iP 09 07 26.2 U
cont.

September				September			
	T	A			T	A	
SOD eP	01 25 20						
H:	01 15 22.8						
	47.0 N, 153.6 E, depth N						
	Kurile Islands						
14 NUR iP	06 22 43.5			14 NUR iP	14 53 30.0		
	i 56.0				i 41.0		
	eS 31 40				ePP 55 02		
	eSS 36 02				eS 59 20		
KJN iP	06 22 20.8	0.7	8.2	KJN iP	14 53 25.3	0.9	26.8
OUL eP	06 22 19				i 37.9		
SOD iP	06 22 06.7				iPP 54 56.0		
KEV eS	06 30 02				e 59 19		
H:	06 11 55.8			OUL eP	14 53 35		
	43.5 N, 147.7 E, depth N				i 56 04.6		
	Kurile Islands			SOD iP	14 53 40.0		
14 KJN eP	10 15 12				i 50.3		
H:	10 02 20.2				e 55 21		
	6.3 N, 125.3 E, 35 km				e 56 05		
	Mindanao, P.I.			KEV iP	14 53 47.6		
14 NUR iP	11 00 36.2				i 54 10.0		
KJN eP	11 00 11	0.9	13.4		eS 59 56		
OUL eP	11 00 07				eSS 15 02 28		
SOD eP	10 59 51			H:	14 46 21.1		
H:	10 49 46.7				39.6 N, 74.9 E, depth N		
	51.2 N, 179.2 W, 42 km				Southern Sinkiang		
	Andreanof Islands			14 NUR iP	16 22 33.5 U		
14 KJN iP	12 26 49.9 U	0.9	14.3		iPP 23 56.4		
	i 58.0				i 24 01.1		
Moscow:					eS 28 16		
H:	12 19 11			KJN iP	16 22 29.0 U	0.8	59.2
	54.0 N, 109.3 E, 15 km				iPP 23 49.0		
	Baikal				iPcP 24 53.1		
14 NUR iP	12 59 57.8	0.7	42.2		iS 28 13.1		
	i 13 00 10.1			OUL iP	16 22 38.1 U		
KJN iP	12 59 34.2	0.8	52.3		iPcP 24 55.4		
	i 46.8			SOD iP	16 22 42.3		
	ePcP 13 00 13				e 23 05		
OUL iP	12 59 32.5				ePP 24 12		
	i 45.2				e 22		
SOD iP	12 59 20.0				iPcP 58.2		
KEV iP	12 59 08.0	0.8	25.9	KEV iP	16 22 49.5	0.7	33.5
H:	12 49 12.2				ePP 24 24		
	43.5 N, 147.6 E, 53 km				eS 28 40		
	Kurile Islands				eSS 31 20		
14 KJN ePKP	14 46 07			H:	16 15 24.8		
H:	14 27 55.1				39.7 N, 74.9 E, depth N		
	22.1 S, 179.7 W, 600 km (G)				Southern Sinkiang		
	South of Fiji Islands			14 KJN eP	22 04 05		
				14 NUR eP	23 14 24		
				KJN eP	23 14 04		
				OUL eP	23 14 03		
				SOD eP	23 13 48		

cont.

September

September

				T	A					T	A
	KJN	iP	18 57 58.3	1.3	62.9	16	KJN	eP	13 49 41		
		e	58 13					i	43.5		
		iPcP	40.0				OUL	eP	13 49 38		
	OUL	iP	18 57 57.0				SOD	eP	13 49 38		
	SOD	eP	18 57 44				KEV	eP	13 49 37		
		iPcP	58 30.0				H:	13 37 15.3			
	KEV	iP	18 57 31.6	0.7	18.1		10.2 N, 66.8 W, 11 km				
		e	58 11				Venezuela				
		eSS	19 09 46								
	H: 18 47 41.3					16	KJN	iP	14 12 05.4	0.9	8.0
	45.5 N, 151.6 E, 44 km						SOD	eP	14 11 26		
	Kurile Islands										
16	NUR	eP	00 29 07			16	NUR	eP	14 38 30		
	KJN	eP	00 29 41				KJN	iP	14 38 26.0	0.8	6.2
	OUL	eP	00 29 50				OUL	iP	14 38 19.8		
	SOD	eP	00 30 10				SOD	eP	14 38 14		
	H: 00 23 32.5						KEV	iP	14 38 09.5	0.7	10.6
	34.4 N, 28.1 E, 6 km						H: 14 25 42.3				
	Eastern Mediterranean Sea						15.5 N, 93.1 W, 104 km				
							Chiapas, Mexico				
16	NUR	iP	01 27 53.0	0.8	14.4	16	NUR	iP	14 41 56.3 U	1.1	149.9
		i	55.8				KJN	iP	14 41 42.2 U	1.1	218.7
		eS	36 42					iPP	44 29.0		
		eScS	37 50				OUL	iP	14 41 34.7 U		
	KJN	iP	01 27 29.2	1.1	21.6		SOD	iP	14 41 23.8 U		
		i	31.7					iPP	43 54.9		
		iPcP	28 11.0				KEV	iP	14 41 11.3 U	1.1	83.0
	OUL	iP	01 27 27.4					i	43 25.0		
	SOD	eP	01 27 14					ePP	43		
	KEV	iP	01 27 02.4	0.9	15.5			iPPP	45 29.2		
		eS	34 58					e	48 36		
		eScS	36 54					iP'P'	15 09 13.1		
	H: 01 17 14.6						H: 14 30 00.0				
	45.6 N, 151.6 E, 60 km (G)						37.3 N, 116.5 W, 0 km				
	Kurile Islands						Nevada				
16	NUR	eP	02 33 18			16	KJN	ePKP	15 54 07	0.7	5.5
	KJN	eP	02 32 56					i	11.0		
	SOD	eP	02 32 41				H: 15 34 15.2				
	H: 02 22 36.4						61.6 S, 154.0 E, 31 km				
	45.7 N, 151.6 E, depth N						Balleny Islands				
	Kurile Islands										
16	NUR	iP	08 11 54.0	0.7	31.0	16	NUR	eP	21 26 38		
	KJN	iP	08 11 37.1	0.8	26.9		KJN	iP	21 26 33.5	0.7	9.6
		ipP	58.8					i	35.4		
	OUL	iP	08 11 39.5					e	47		
		ipP	12 00.7					iPP	28 05.8		
	SOD	iP	08 11 33.0				OUL	iP	21 26 42.6		
		ipP	55.6					ePcP	28 59		
	H: 08 00 35.8						SOD	iP	21 26 46.5		
	27.2 N, 127.3 E, 94 km							i	49.0		
	Ryukyu Islands						cont.				



September

September

T A

T A

KEV iP 21 26 53.6
H: 21 19 26.5
39.8 N, 75.1 E, 19 km
Southern Sinkiang, China

16 KJN eP 22 53 51
OUL eP 22 53 42
i 54 03.9
SOD eP 22 53 26
ipP 54.1
H: 22 44 23.2
60.3 N, 153.0 W, 110 km (G)
Southern Alaska

17 OUL ePKP 01 42 59
H: 01 23 54.1
59.0 S, 24.8 W, 33 km (D)
South Sandwich Islands

17 NUR eP 02 25 34
KJN iP 02 25 07.5 0.8 7.7
OUL eP 02 25 04
SOD eP 02 24 49
H: 02 15 20.1
53.1 N, 160.1 E, 22 km
Kamchatka

17 KJN eSg 09 39 03
OUL ePn 09 38 17
eSn 40
eSg 43
SOD eSg 09 39 24
Helsinki:
H: 09 37 43
65 N, 21 E,
Eastern Sweden

17 NUR eP 18 12 09
OUL eP 18 12 03
SOD eP 18 12 00

17 NUR iP 18 52 04.0 1.4 192.7
i 10.1 0.8 113.8
ePP 54 44
ePPP 56 24
eS 19 01 17
ePS 40
eScS 52
eSS 06 12
eSSS 09 04
KJN iP 18 51 46.5 U 1.9 961.5
ePP 54 15
eS 19 00 41
cont.

ePS 01 05
iScS 39.9
OUL iP 18 51 48.0 U
SOD iP 18 51 39.3 U
i 45.9
iPP 54 07.5
eS 19 00 30
e 01 12
KEV iP 18 51 32.5 U 1.0 100.0
i 38.4 0.7 89.0
i 52 22.5
ePP 53 56
ePPP 55 36
eS 19 00 16
ePS 40
ePPS 56
e 01 08
eSS 04 54
eSSS 07 56
eLR 19 11.5
LZ 20 71.8u
LN 18 21.9u
LE 20 41.8u
H: 18 40 45.8
31.1 N, 131.3 E, 8 km
Kyushu, Japan

17 NUR iP 19 02 25.0 0.9 21.8
i 35.1 1.0 60.0
i 54.3
KJN iP 19 02 06.0 1.4 118.8
i 16.0
OUL iP 19 02 07.4
i 18.1
SOD iP 19 01 59.2
i 02 10.1
KEV iP 19 01 51.8 0.8 23.0
i 02 02.5 0.9 57.1
H: 18 51 07.8
31.2 N, 131.4 E, 23 km
Kyushu, Japan

18 NUR eP 01 52 11
KJN eP 01 51 49
SOD iP 01 51 34.8

18 NUR ePKP 05 26 02
i 08.0
eSKP 28 55
KJN iPKP 05 26 00.5
iSKP 28 44.3
OUL ePKP 05 26 00
eSKP 28 43
cont.

September

September

				T	A					T	A
SOD eSKP 05 28 37								esSP 30			
KEV ePKP 05 25 37								eSS 58 50			
H: 05 07 36.1								H: 01 29 37.4			
25.3 S, 179.6 E, 525 km (G)								6.1 N, 125.4 E, 95 km			
South of Fiji Islands								Mindanao, P.I.			
18	NUR	eP	12 03 20	0.8	11.5	19	NUR	iP	12 22 25.2		
		e	30				KJN	eP	12 22 02	0.9	10.7
	KJN	iP	12 02 59.1	0.7	11.0		OUL	eP	12 22 01		
		i	03 09.9				SOD	eP	12 21 47		
	OUL	iP	12 02 57.6				H: 12 11 37.9				
		i	03 08.0				43.7 N, 147.9 E, depth N				
	SOD	iP	12 02 45.3				Kurile Islands				
		i	03 40.2								
	KEV	eP	12 02 33			19	NUR	ePKP	14 47 56	1.1	30.3
	H: 11 52 37.6						KJN	iPKP	14 47 47.3	1.0	43.6
	43.3 N, 146.9 E, 50 km						OUL	iPKP	14 47 46.7		
	Kurile Islands						H: 14 28 13.1				
							34.4 S, 179.0 W, 46 km				
							South of Kermadec Islands				
19	NUR	eP	01 42 26			19	NUR	iP	20 50 53.3		
		epP	50				KJN	eP	20 50 28		
		i	43 13.0				OUL	iP	20 50 26.4		
		iPP	46 06.0				SOD	iP	20 50 12.3		
		eSKS	52 43				H: 20 40 34.3				
		iS	53 08.9				48.2 N, 153.4 E, 140 km (G)				
		esS	50				Kurile Islands				
		eSS	59 20								
		eSSS	02 02 48			19	NUR	iP	21 04 53.0		
		e	04 18				KJN	iP	21 04 43.9 U	0.7	13.7
	KJN	iP	01 42 16.1	0.7	10.3		OUL	iP	21 04 46.5		
		i	45.2				SOD	iP	21 04 42.7		
		iSKS	52 32.9				H: 20 53 05.1				
		iS	48.1				7.4 N, 123.8 E, 602 km				
		e	53 44				Mindanao, P.I.				
	OUL	eP	01 42 20			20	NUR	iP	01 02 44.0	1.4	40.1
		epP	48				KJN	eP	01 02 43		
	SOD	eP	01 42 15					i	45.6		
		epP	40				OUL	eP	01 02 36		
		e	43 11				SOD	eP	01 02 34		
		eSKS	52 30				KEV	eP	01 02 25		
		eS	46					eS	07 06		
		esS	53 28				H: 00 56 51.3				
		ePKKP	02 00 03				58.1 N, 32.2 W, depth N				
	KEV	eP	01 42 12				North Atlantic Ocean				
		i	41.6			20	NUR	iP	01 13 28.2		
		i	43 00.3					i	34.4		
		iPP	45 37.5				cont.				
		eSKS	52 24								
		eS	40								
		esS	53 16								
		ePS	54 00								

cont.

September

September

			T	A
KJN	iP	01 13 31.0		
OUL	eP	01 13 21		
KEV	eP	01 13 19		
	eS	18 04		
H: 01 07 38.4				
58.2 N, 32.1 W, depth N				
North Atlantic Ocean				
20	NUR	eP 01 16 20	1.0	12.0
	KJN	iP 01 16 20.1		
	OUL	eP 01 16 11		
20	NUR	iP 01 18 55.8	1.2	44.7
	KJN	iP 01 18 57.5		
	OUL	eP 01 18 48		
	SOD	eP 01 18 46		
H: 01 13 04.6				
58.1 N, 32.1 W, depth N				
North Atlantic Ocean				
20	KJN	eP 03 30 21		
H: 03 24 28.8				
58.3 N, 32.3 W, depth N				
North Atlantic Ocean				
20	KJN	eP 04 56 43		
	OUL	eP 04 56 51		
	SOD	eP 04 56 57		
H: 04 48 45.5				
29.7 N, 68.6 E, 40 km				
West Pakistan				
20	NUR	iP 05 14 50.5	0.8	134.0
		e 15 28		
		e 18 00		
		e 19 00		
		eS 32		
	KJN	eP 05 14 47	1.5	486.2
		i 52.5		
		iPP 15 37.6		
		eS 19 44		
	OUL	iP 05 14 39.8		
		i 43.4		
	SOD	iP 05 14 40.7		
		ePP 15 20		
		eS 19 26		
	KEV	eP 05 14 36	1.2	139.5
		i 39.7		
		ePP 15 18		
		eS 19 16		
		eLR 05 20.5		
H: 05 08 57.6				
58.3 N, 32.2 W, depth N				
North Atlantic Ocean				

			T	A
20	NUR	ePKP 10 37 54		
		i 38 04.2		
	KJN	iPKP 10 37 43.6		
		i 55.2	0.8	12.3
H: 10 18 05.9				
35.0 S, 179.2 W, depth N				
North Island, N.Z.				
20	NUR	ePKP 12 58 34		
		i 47.0		
	KJN	iPKP 12 58 25.0		
		i 37.2	0.9	16.1
	OUL	iPKP 12 58 25.9		
H: 12 38 48.4				
34.9 S, 179.0 W, 37 km				
South of Kermadec Islands				
20	NUR	iP 14 14 52.3	0.5	19.4
		ePP 16 05		
	KJN	iP 14 14 51.2	0.7	39.0
		i 56.6		
		e 15 54		
	OUL	iP 14 15 01.2		
	SOD	iP 14 15 08.1		
	KEV	iP 14 15 16.5		
H: 14 07 57.8				
38.4 N, 69.8 E, 52 km				
Tadzhik SSR				
20	NUR	ePP 15 45 08		
		eSKS 51 32		
		e 52 16		
		ePS 54 30		
		eSS 16 00 08		
		eSSS 04 12		
	OUL	iP 15 40 37.9		
	SOD	ePP 15 44 41		
	KEV	eP 15 40 24		
		ePP 44 32		
		eSKS 51 08		
		eS 52		
		ePS 53 44		
		eSS 59 10		
		eSSS 16 02 40		
H: 15 26 41.5				
1.8 N, 101.0 W, depth N				
East Central Pacific Ocean				
20	NUR	eP 22 32 04		
21	NUR	iPKP 07 30 45.0	1.0	32.5
	KJN	iPKP 07 30 38.0	1.4	89.1
	OUL	ePKP 07 30 36		

cont.



September				September						
		T	A		T	A				
	SOD iPKP	07 30	32.2		ePPP	03 00				
	KEV iPKP	07 30	28.1		eS	08 00				
	E: 07 11	53.6			ePS	44				
	17.5 S, 174.7 W, 235 km (G)				eSS	13 04				
	Tonga Islands			KJN iP	01 58	08.2	1.1 23.0			
21	NUR eP	19 17	01		ePP	02 01	11			
	KJN eP	19 17	02		OUL eP	01 58	14			
	OUL eP	19 17	12		i	23.7				
	e	19		SOD iP	01 58	16.6				
	H: 19 09	53.6		eS	02 08	12				
	36.0 N, 69.3 E, 72 km			KEV iP	01 58	22.5	1.2 51.3			
	Hindu Kush			e	59 52					
21	NUR iPKP	21 35	08.4	0.9	31.4					
	i	15.8			ePP	02 01	24			
	KJN iPKP	21 34	57.1	0.7	4.1					
	OUL ePKP	21 34	56		ePPP	03 28				
	H: 21 15	40.2			eS	08 20				
	31.8 S, 178.5 W, 117 km				e	11 08				
	Kermadec Islands				eSS	14 00				
					eSSS	17 00				
					H: 01 46	13.5				
					2.9 N, 95.9 E, depth N					
					Northern Sumatra					
21	NUR eP	21 41	21		22	NUR iP	02 46	30.3	1.0	32.9
	e	40				i	40.0			
	KJN iP	21 41	18.4	0.9	11.6	KJN eP	02 46	06		
	i	27.0				i	07.2	1.0	22.9	
	e	42 17				i	12.7			
	OUL iP	21 41	25.3			OUL iP	02 46	05.1		
	SOD iP	21 41	27.4			SOD iP	02 45	52.7		
	i	33.9				KEV iP	02 45	39.6		
	H: 21 29	21.7				H: 02 35	44.4			
	2.7 N, 95.8 E, depth N					43.6 N, 147.5 E, 42 km (D)				
	Northern Sumatra					Kurile Islands				
21	NUR eP	21 46	11		22	NUR eP	02 51	13		
	KJN iP	21 46	03.3			SOD eP	02 50	36		
	OUL eP	21 46	10			H: 02 40	27.0			
	SOD iP	21 46	11.4			43.3 N, 147.4 E, 40 km (G)				
	H: 21 34	06.7				Kurile Islands				
	2.7 N, 95.9 E, depth N									
	Northern Sumatra					22	NUR eP	04 04	35	
							i	53.0		
22	NUR iP	01 51	57.5				eS	14 24		
	KJN iP	01 52	06.5	0.9	28.6		ePS	15 04		
	OUL eP	01 52	14				eSS	19 40		
	SOD eP	01 52	26			KJN iP	04 04	32.8	1.5	83.3
	H: 01 40	20.8				i	53.4			
	5.6 S, 68.1 E, 14 km					ePP	07 28			
	Chagos Archipelago					OUL eP	04 04	38		
						SOD iP	04 04	42.0		
22	NUR iP	01 58	11.2	1.0	22.0	i	48.8			
	i	20.0				KEV iP	04 04	52.7	0.8	15.8
	ePP	02 01	12			ePP	07 52			
	cont.					cont.				

September

September

September				T	A	September				T	A	
	KEV	e	12 20 19				eS	07 31				
	H:		12 00 37.3				i	46.3				
			37.7 S, 179.7 E, depth N				i	09 25.5				
			North Island, N.Z.				KJN	iP 07 04 29.6	0.6	185.0		
25	NUR	ePKP	14 21 09	0.8	7.4		i	05 02.0				
	H:		14 02 21.8				i	08 39.5				
			12.6 S, 166.8 E, 101 km				OUL	iP 07 04 43.9				
			Santa Cruz Islands				e	09 11				
							e	50				
25	NUR	iP	21 44 11.0	0.8	19.1		SOD	iP 07 05 03.5 U				
	KJN	iP	21 43 47.9	0.6	15.1		i	05.8				
	OUL	eP	21 43 43				i	09 15.5				
	SOD	iP	21 43 26.3				e	42				
	KEV	eP	21 43 10				KEV	iP 07 05 23.6 U	0.7	92.9		
	H:		21 33 16.9				i	38.0				
			52.2 N, 169.4 W, 5 km				i	45.4				
			Fox Islands				i	06 09.3				
							e	10 08				
							e	31				
25	NUR	eP	23 20 17				H:	06 59 55.8				
	KJN	eP	23 20 04					45.9 N, 42.5 E, 0 km (G)				
	OUL	iP	23 20 09.2					Southwestern Russia				
	SOD	eP	23 20 06									
	KEV	eP	23 20 11				26	KJN	iP 08 39 12.9			
	H:		23 10 37.6					OUL	iP 08 39 15.7			
			32.5 N, 102.2 E, depth N					SOD	eP 08 39 13			
			Szechwan, China					i	15.1			
								H:	08 26 34.4			
26	NUR	iP	01 20 34.1	0.9	21.1			1.0 N, 123.8 E, 257 km				
	KJN	iP	01 20 10.3	0.6	11.6			Northern Celebes				
	OUL	iP	01 20 04.0									
	SOD	iP	01 19 49.1				26	KJN	ePKP 20 46 43			
	H:		01 09 40.3					H:	20 27 44.7			
			52.3 N, 169.3 W, 8 km					22.3 S, 171.1 E, 120 km				
			Fox Islands					Loyalty Islands				
26	NUR	eP	05 02 53	0.9	31.7		26	NUR	eP 20 59 53			
	i		56.0					OUL	eP 20 59 22			
	i		03 09.8					H:	20 49 06.0			
	eS		09 35					52.9 N, 167.0 W, 32 km				
	KJN	iP	05 03 19.8 U	0.8	27.7			Fox Islands				
	i		30.9									
	OUL	eP	05 03 25				27	NUR	iP 04 12 57.0	0.7	15.8	
	SOD	iP	05 03 43.4					KJN	iP 04 12 33.8	0.3	42.5	
	i		52.3					i	35.2			
	KEV	eP	05 04 01					OUL	iP 04 12 32.2			
	eS		11 38					SOD	iP 04 12 19.7			
	H:		04 54 35.7					i	21.6			
			16.4 N, 41.0 E, 25 km					KEV	eP 04 12 10			
			Red Sea					H:	04 02 16.3			
26	NUR	iP	07 04 05.7 U	1.4	1556.6			43.9 N, 147.0 E, 47 km (D)				
	i		09.1					Kurile Islands				
	i		39.9									
	i		54.9					27	NUR	iPKP 09 23 20.7	1.0	31.4
			cont.					e	32	0.9	48.2	
									cont.			

September						September					
				T	A						
						T			A		
28	NUR	eP	22 59 40	0.4	38.4	29	NUR	iP	18 09 26.3	1.2	134.0
		i	42.0				KJN	iP	18 09 03.1	0.9	53.6
		i	23 00 00.5				OUL	iP	18 09 01.2		
		eS	04 20					i	12.5		
		e	46				SOD	iP	18 08 48.8		
	KJN	eP	23 00 12					i	09 07.0		
		i	46.5				KEV	iP	18 08 36.9	0.7	21.9
		ePcP	03 12				H: 17 58 38.8				
	OUL	iP	23 00 20.7				43.4 N, 147.7 E, 32 km				
		i	22.7				Kurile Islands				
	SOD	iP	23 00 42.2			29	NUR	iP	18 10 45.8	1.0	38.0
		i	50.8				KJN	eP	18 10 21		
		e	02 04				OUL	iP	18 10 19.9		
	KEV	iP	23 01 04.9				SOD	eP	18 10 06		
		i	11.6			29	NUR	eP	18 14 26		
		i	33.0				KJN	iP	18 14 03.0		
		ePP	02 26				OUL	eP	18 13 57		
		eS	06 44				SOD	eP	18 13 47		
		ePcS	07 10				H: 18 03 39.6				
		e	08 28				43.5 N, 147.3 E, depth N				
	H: 22 54 06.6						Kurile Islands				
	34.3 N, 25.1 E, 19 km										
	Crete										
29	NUR	ePn	10 30 07	0.8	13.0	29	NUR	iP	20 07 41.7	0.6	22.5
		i	16.0				KJN	iP	20 07 34.1 U	0.8	18.5
		i	29.0				OUL	eP	20 07 40		
		i	51.6					iPcP	08 26.9		
		iSn	31 48.0				SOD	iP	20 07 41.2 U		
		i	32 39.0				KEV	iP	20 07 43.3	0.7	21.9
		i	33 00.8				H: 19 57 50.3				
	KJN	iPn	10 30 03.5	0.5	16.9		24.8 N, 95.3 E, 119 km				
		i	08.4	0.6	43.2		Burma				
		eSn	31 42			29	NUR	eP	20 16 48		
		e	46					eSKS	27 28		
		e	32 31					eS	28 00		
	OUL	iPn	10 29 49.2					ePS	29 08		
		eSn	31 20					eSS	34 08		
	SOD	iPn	10 29 53.2					eSSS	37 40		
		iSn	31 21.0					LZ		20	21.1u
		i	30.8					LN		20	10.0u
	KEV	ePn	10 30 05					LE		19	13.0u
		iSn	31 42.1				KJN	eP	20 17 05		
		i	55.9				KEV	ePP	20 21 40		
		i	32 54.6					e	27 00		
	H: 10 27 49.1							eSKS	28 08		
	65.1 N, 6.6 E, 6 km							eS	29 20		
	Norwegian Sea							ePS	30 48		
29	KJN	eP	16 33 37					ePPS	31 40		
	SOD	eP	16 33 37					eSS	36 16		
	H: 16 20 00.4										
	7.2 S, 128.8 E, 145 km (G)										
	Banda Sea										

cont.



September

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eSSS 40 16

eLQ 20 47.6

LZ 22 19.2u

LN 22 10.4u

LE 20 12.9u

H: 20 03 32.8

32.9 S, 19.7 E, depth N

Republic of South Africa

30 SOD eP 02 46 22

H: 02 39 45.2

34.2 N, 25.2 E, 14 km

Crete

30 NUR ePKP 03 30 55

H: 03 11 38.2

31.6 S, 179.1 W, 208 km

Kermadec Islands

30 NUR ePKP 04 30 56 1.1 204.7

i 58.0

KJN iPKP 04 30 46.5 0.9 81.3

i 59.0

e 32 37

OUL iPKP 04 30 45.7

SOD ePKP 04 30 44

KEV ePKP 04 30 42

H: 04 11 16.1

31.9 S, 177.9 W, depth N

Kermadec Islands

30 NUR iPKP 05 36 38.8

KJN ePKP 05 36 27

OUL ePKP 05 36 24

H: 05 16 57.7

31.8 S, 177.9 W, depth N

Kermadec Islands

30 NUR eP 15 06 18

KJN iP 15 06 15.6

OUL eP 15 06 20

SOD eP 15 06 22

H: 14 53 38.1

2.8 S, 102.2 E, depth N

Southern Sumatra

30 NUR ePKP 18 11 21 1.2 111.2

i 25.8 1.1 271.3

i 35.5 1.0 192.0

ePP 14 44

eSKKS 21 40

eSKSP 25 28

e 26 56

eSS 33 50

e 34 51

e 35 15

eSSS 39 32

e 40 12

e 41 24

KJN iPKP 18 11 10.3 0.9 11.6

e 12 1.2 80.8

ePP 14 41

OUL ePKP 18 11 10

SOD ePKP 18 10 59

i 11 09.3

KEV ePKP 18 11 00

i 07.4

e 13 32

ePP 14 24

ePKS 15 08

eSKSP 24 08

eSPP 26 16

eSS 32 24

H: 17 51 41.8

31.9 S, 178.0 W, depth N

Kermadec Islands

30 NUR eP 18 34 34

30 KJN iP 18 37 31.0 0.7 7.5

H: 18 26 12.1

30.3 N, 140.9 E, 82 km (D)

South of Honshu, Japan

30 NUR eP 18 50 56

30 NUR iP 19 17 48.9 0.7 16.8

i 58.0

KJN iP 19 17 37.3 0.7 8.9

30 SOD eP 23 00 46

H: 22 49 51.0

43.6 N, 127.3 W, depth N

Oregon

September				September							
				T	A					T	A
30	NUR	e	23 23 37						KEV	i	23 23 39.0
	KJN	eP	23 23 17						H:	23 13 28.8	
		i	30.4	1.0	13.1				25.6 N, 94.7 E, 20 km		
	SOD	eP	23 23 26						Burma-India border		
		i	39.4								
			cont.								

November 6, 1970

Urmas Luosto
Aili Huovila

plc

7 DEC 1970

October

October

					T	A
1	NUR	iPKP	00 17 17.0	U	0.9	50.4
		i	32.5			
		i	40.0		1.0	66.0
	KJN	iPKP	00 17 06.3	U	0.9	23.2
		e	19 21			
	OUL	ePKP	00 17 06			
	H: 23 57 36.4					
	32.2 S, 177.6 W, 37 km					
	South of Kermadec Islands					
1	NUR	iP	04 09 22.0	U	0.6	15.0
		i	10 01.5			
		i	14.2			
	KJN	iP	04 09 08.7	U	0.7	32.9
		i	42.8			
	OUL	iP	04 09 16.3			
	SOD	iP	04 09 16.2	U		
		i	50.0			
		i	10 11.8			
	KEV	iP	04 09 18.7		0.6	16.3
		i	50.0			
		i	10 14.6			
	H: 04 02 57.6					
	49.8 N, 78.2 E, 0 km (G)					
	Eastern Kazakh SSR					
1	NUR	ePKP	04 41 46			
		i	52.5			
	KJN	e	04 41 42			
	H: 04 22 06.5					
	31.4 S, 177.6 W, 68 km					
	Kermadec Islands					
1	NUR	ePKP	05 24 07			
		ePS	33 20			
	KJN	eP	05 20 06			
		ePKP	23 51			
		ePP	24 21			
	SOD	eP	05 19 59			
		eSKS	30 44			
		ePS	33 30			
		eSS	39 12			
	KEV	eP	05 19 56			
		ePS	33 32			
		eSS	39 04			
	H: 05 05 43.2					
	11.9 S, 75.1 W, 4 km					
	Peru					
1	NUR	iPKP	06 45 04.0		0.6	7.5
	KJN	iPKP	06 44 56.2			
	cont.					

					T	A
	OUL	iPKP	06 44 55.9			
	H: 06 26 44.8					
	11.8 S, 167.5 E, 345 km					
	Santa Cruz Islands					
1	KJN	iP	17 21 57.2	U	1.0	20.7
		i	22 12.2			
	OUL	eP	17 21 49			
	SOD	iP	17 21 36.1			
	H: 17 11 11.3					
	48.5 N, 126.5 W, 23 km					
	Vancouver Island					
1	NUR	eP	17 24 35			
		ePP	28 35			
		eSKS	35 07			
		eS	36 07			
		ePS	37 27			
		ePPS	38 17			
		eSS	42 31			
		e	43 31			
		eSSS	46 39			
		eLR	17 57.5			
	KJN	eP	17 24 36			
		ePP	28 37			
	SOD	eP	17 24 22			
		ePP	28 30			
		eSKS	35 06			
		ePS	37 22			
	KEV	eP	17 24 26			
		e	27 50			
		ePP	28 16			
		eSKS	35 00			
		eS	44			
		ePS	37 12			
		eSS	42 04			
		eSSS	46 00			
		eLR	17 56.5			
	H: 17 10 56.5					
	0.8 N, 85.0 W, depth N					
	Ecuador					
1	KJN	iP	17 57 51.5		0.8	16.1
	OUL	eP	17 57 52			
	SOD	iP	17 58 02.6			
	KEV	eP	17 58 12			
	H: 17 46 29.4					
	0.0 N, 17.4 W, depth N					
	North of Ascension Island					

October

October

				T	A					T	A	
1	NUR	iPKP	18 57 51.0	0.9	23.5	KJN	iP	22 55 08.2 U	0.6	69.9		
		i	58 05.2				ePP	56 33				
	KJN	iPKP	18 57 40.8	0.9	14.3	OUL	iP	22 55 17.2 U				
			H: 18 38 23.1				ePP	56 46				
			32.0 S, 178.0 W, 144 km			SOD	iP	22 55 24.3 U				
			South of Kermadec Islands				iPP	56 56.1				
1	KJN	ePKP	20 12 25			KEV	iP	22 55 32.9 U	0.7	49.0		
		i	35.5				ePP	57 14				
		ePKS	15 54					H: 22 48 12.8				
	SOD	ePKP	20 12 28					36.5 N, 70.9 E, 230 km				
		e	40					Hindu Kush				
	KEV	eSKP	20 16 20			2	NUR	ePKP	04 18 28			
		eSS	32 52					i	36.9	0.5	13.2	
		e	33 40					iSKP	21 14.7			
		eSSS	37 32				KJN	iPKP	04 18 27.2	0.6	18.5	
			H: 19 53 15.7					i	29.0			
			60.8 S, 19.7 W, depth N					iSKP	21 03.5			
			Southwestern Atlantic Ocean					ePKS	57			
1	NUR	eP	20 38 47	1.2	59.9	OUL	iPKP	04 18 26.5				
	KJN	iP	20 39 07.3	1.1	60.8		eSKP	21 02				
		i	09.4			SOD	ePKP	04 18 22				
	OUL	iP	20 39 17.7				iSKP	20 55.3				
		i	20.1			KEV	iPKP	04 18 18.7				
	SOD	eP	20 39 37				iSKP	20 47.3				
		i	40 09.1					H: 04 00 17.7				
	KEV	eP	20 39 57					21.8 S, 179.4 W, 599 km (D)				
			H: 20 33 39.3					Fiji Islands				
			39.2 N, 40.5 E, 39 km			2	NUR	eP	05 08 48	0.8	13.0	
			Turkey				KJN	iP	05 08 32.8	0.8	12.3	
1	NUR	ePKP	20 49 52	1.1	35.7		OUL	iP	05 08 24.0			
		i	50 03.1				SOD	eP	05 08 12			
	KJN	ePKP	20 49 48				KEV	iP	05 08 00.4	0.8	11.5	
	OUL	iPKP	20 49 48.6					e	16			
	SOD	ePKP	20 49 30					H: 04 56 45.5				
	KEV	ePKP	20 49 37					38.5 N, 122.7 W, 2 km				
			H: 20 30 22.5					Northern California				
			27.3 S, 176.5 W, depth N			2	KJN	eP	06 31 41			
			Kermadec Islands				OUL	eP	06 31 33			
1	NUR	iP	20 58 43.4				SOD	eP	06 31 20			
	KJN	iP	20 58 24.9	0.5	8.8		KEV	eP	06 31 08			
	OUL	iP	20 58 24.9					eS	40 06			
	SOD	iP	20 58 15.7					H: 06 19 56.0				
			H: 20 47 00.6					38.5 N, 122.7 W, 2 km				
			31.3 N, 142.6 E, 27 km					Northern California				
			South of Honshu, Japan			2	NUR	iP	22 16 48.0 U	1.0	294.0	
1	NUR	iP	22 55 08.1 U	0.8	89.3			ePPP	20 49			
		iPP	56 37.4					eP'P'	45 10			
			cont.					i	22.9			
								cont.				

October		T	A	October		T	A
	OUL iP 23 16 39.9				KJN iP 21 59 11.6	1.3	108.5
	SOD iP 23 16 30.4				i 20.6		
	H: 23 05 26.7				OUL iP 21 59 15.0		
	32.5 N, 141.2 E, 43 km				SOD iP 21 59 12.5		
	South of Honshu, Japan				i 20.8		
6	KJN eP 00 58 49				H: 21 46 32.7		
	H: 00 47 25.5				7.2 N, 123.7 E, depth N		
	7.4 N, 35.6 W, depth N				Mindanao, P.I.		
	Central Mid-Atlantic Ridge			7	NUR iP 04 00 53.2	0.7	6.5
6	NUR eP 09 36 28				epP 01 07		
6	NUR iPKP 10 21 14.8	0.8	14.4		KJN iP 04 00 50.4	0.7	12.3
	i 19.0				ipP 01 06.9		
	KJN ePKP 10 21 09				OUL iP 04 00 55.4		
	i 16.0				ipP 01 10.2		
	OUL ePKP 10 21 09				SOD eP 04 00 56		
	H: 10 01 40.1				H: 03 47 51.8		
	30.3 S, 177.9 W, 35 km				6.1 S, 104.2 E, 15 km		
	Kermadec Islands				Sunda Strait		
6	NUR iP 13 00 08.0 U	1.0	182.0	7	NUR iP 05 14 00.3	1.1	38.1
	i 25.5				i 03.5		
	eS 10 00				i 32.8		
	KJN iP 12 59 56.7 U	1.0	296.5		eS 17 52		
	i 13 00 08.1				e 18 09		
	e 02 43				KJN iP 05 14 35.2	0.9	69.7
	OUL iP 12 59 59.7 U				eS 18 58		
	SOD iP 12 59 56.3 U				e 19 15		
	i 13 00 12.3				OUL iP 05 14 44.0		
	KEV iP 12 59 53.4 U	0.9	62.2		SOD iP 05 15 05.6		
	i 58.8				KEV iP 05 15 27.2		
	i 13 00 14.0				i 16 21.2		
	eS 09 36				eS 20 36		
	eSS 14 40				H: 05 09 11.3		
	H: 12 48 05.0				39.2 N, 28.4 E, 14 km (D)		
	15.0 N, 120.1 E, 59 km				Turkey		
	Luzon, P.I.			7	NUR iP 13 44 03.8		
6	NUR eP 17 26 07				KJN iP 13 43 41.3		
	KJN eP 17 26 28				OUL eP 13 43 41		
6	NUR eP 20 31 28				H: 13 33 29.7		
	OUL eP 20 31 04				42.4 N, 143.2 E, 121 km		
	H: 20 20 42.9				Hokkaido, Japan		
	43.8 N, 148.2 E, depth N			7	NUR eP 14 45 07		
	Kurile Islands				i 11.1		
6	NUR eP 21 59 21				KJN eP 14 45 29		
	i 31.0				OUL eP 14 45 38		
	cont.				H: 14 39 28.6		
					36.6 N, 43.6 E, 44 km		
					Iraq		

October

7 NUR eP 18 53 48
KJN eP 18 54 24
OUL eP 18 54 29
H: 18 49 02.2
39.2 N, 28.7 E, 39 km
Turkey

7 NUR iP 22 23 27.3 0.7 15.5
KJN iP 22 23 02.3 0.8 10.0
OUL iP 22 22 57.3
SOD iP 22 22 42.5
H: 22 12 39.1
51.2 N, 179.6 W, 45 km
Andreanof Islands

8 KJN eP 02 33 06
H: 02 19 27.6
10.1 S, 117.5 E, depth N
South of Sumbawa Island

8 NUR eP 04 19 22
KJN iP 04 19 03.0
i 14.7
OUL iP 04 19 02.8
SOD eP 04 18 53
i 19 05.2
H: 04 07 36.4
31.1 N, 142.3 E, 14 km
South of Honshu, Japan

8 NUR eP 06 45 26 0.8 8.6
KJN iP 06 45 09.7 1.0 22.9
OUL iP 06 45 10.9
SOD eP 06 45 04
H: 06 32 08.9
12.0 N, 143.7 E, 9 km
South of Mariana Islands

8 NUR iP 14 41 57.2 0.9 21.8
KJN iP 14 41 43.3 1.0 34.9
OUL iP 14 41 34.8
SOD iP 14 41 24.3
H: 14 30 00.0
37.3 N, 116.4 W, 0 km
Southern Nevada

8 NUR ePKP 15 59 48
KJN ePKP 15 59 40
OUL ePKP 15 59 38
H: 15 41 33.4
21.3 S, 179.5 W, 639 km
Fiji Islands

October

8 KJN eP 18 43 10
Moscow:
H: 18 36 09
38.8 N, 72.6 E
Pamir

8 NUR ePKP 22 17 40 1.2 39.9
i 47.2 1.2 71.3
KJN ePKP 22 17 40
i 45.0 1.5 113.2
OUL iPKP 22 17 41.5
SOD iPKP 22 17 41.8
i 45.3
KEV e 22 17 46
H: 21 57 51.9
55.8 S, 147.4 E, depth N
West of Macquarie Island

9 KJN eP 07 56 35
SOD eP 07 56 14
i 18.8
H: 07 45 16.3
43.7 N, 127.4 W, 10 km
Off coast of Oregon

9 NUR iP 08 10 33.9 0.7 56.8
i 35.0
i 46.2
KJN iP 08 10 09.2 0.6 46.6
i 10.6
i 24.6
OUL iP 08 10 02.8
SOD iP 08 09 48.0
i 49.1
KEV iP 08 09 32.2 0.7 23.2
H: 07 59 41.3
52.3 N, 169.5 W, 22 km
Fox Islands

9 KJN eP 12 25 30
H: 12 15 03.3
40.1 N, 139.3 E, depth N
Honshu, Japan

9 NUR iP 14 18 28.1 0.7 21.9
e 39
KJN iP 14 18 04.4 0.8 16.9
i 15.9
OUL iP 14 18 02.3
cont.

T A

T A

T A

1.2 39.9

1.2 71.3

1.5 113.2

0.7 56.8

0.6 46.6

0.7 23.2

0.7 21.9

0.8 16.9

October				October			
		T	A			T	A
	SOD	iP	14 17 50.6				
	H: 14 07 40.7						
	43.5 N, 147.5 E, 30 km						
	Kurile Islands						
9	KJN	iP	17 26 38.4	0.4	9.8		
	OUL	eP	17 26 39				
	SOD	eP	17 26 36				
	H: 17 14 08.0						
	9.7 N, 126.1 E, 58 km						
	Mindanao, P.I.						
9	KJN	iP	19 57 32.2				
	OUL	eP	19 57 32				
	H: 19 45 25.0						
	19.0 N, 145.4 E, 229 km						
	Mariana Islands						
10	NUR	iP	00 07 56.8				
	KJN	iP	00 07 33.6	0.9	7.1		
	OUL	eP	00 07 30				
	SOD	eP	00 07 22				
	H: 23 57 10.7						
	44.0 N, 148.6 E, depth N						
	Kurile Islands						
10	NUR	iP	00 24 27.9 U	0.5	17.6		
	KJN	iP	00 24 04.2 U				
	OUL	iP	00 24 02.3				
	SOD	iP	00 23 50.6				
	H: 00 13 42.3						
	44.0 N, 149.0 E, 43 km						
	Kurile Islands						
10	KJN	iP	06 49 01.1				
	OUL	iP	06 49 00.0				
	H: 06 38 18.8						
	38.3 N, 140.6 E, 10 km						
	Honshu, Japan						
10	KJN	iP	17 21 05.1	0.8	10.8		
	OUL	eP	17 21 06				
	H: 17 09 57.5						
	29.3 N, 130.3 E, 15 km						
	Ryukyu Islands						
10	NUR	iP	17 56 35.9				
	KJN	eP	17 56 13				
	OUL	iP	17 56 10.8				
	H: 17 45 49.9						
	42.7 N, 147.0 E, 63 km						
	Hokkaido, Japan						
10	NUR	eP	22 55 12				
	KJN	iP	22 55 09.8				
	OUL	iP	22 55 14.5				
	SOD	iP	22 55 16.6				
	H: 22 42 19.5						
	6.0 S, 101.9 E, depth N						
	Southwest of Sumatra						
11	NUR	ePKP	11 31 59				
	KJN	iPKP	11 31 55.6				
	H: 11 12 34.9						
	27.0 S, 176.5 W, 83 km						
	Kermadec Islands						
12	NUR	eP	03 44 14				
	KJN	iP	03 44 05.6 U	0.8	35.4		
	OUL	iP	03 44 08.7				
	SOD	iP	03 44 05.3				
	KEV	iP	03 44 04.3	0.8	14.4		
	H: 03 31 12.8						
	0.1 N, 123.7 E, 166 km						
	Northern Celebes						
12	NUR	ePn	05 21 27				
		e	35				
		eSn	23 06				
		iSg	24 14.2				
	KJN	ePn	05 21 20				
		i	24.9				
		eSn	22 59				
		i	23 04.6				
		iSg	47.3				
	OUL	ePn	05 21 06				
		i	12.7				
		eSn	22 39				
		iSg	23 23.0				
		i	43.9				
	SOD	ePn	05 21 11				
		eSn	22 46				
		e	59				
	Uppsala:						
	H: 05 19 11						
	65.0 N, 7.5 E						
	Norwegian Sea						
12	NUR	eP	10 01 31				
		e	42				
	KJN	iP	10 01 08.8				

October				T	A	October				T	A
12	NUR	iP	13 38 58.9 U	0.7	79.2	13	NUR	eP	01 46 43		
		i	39 01.5								
		iPP	20.0								
		iPPP	27.8			13	NUR	eP	01 54 31		
		eS	42 43				KJN	eP	01 55 09		
		i	49.0								
		e	43 35								
	KJN	iP	13 39 37.6 U	0.9	102.7	13	NUR	ePKP	07 14 33		
	OUL	iP	13 39 44.7 U				i		44.2	0.7	38.3
	SOD	iP	13 40 05.3				i		48.5	0.9	114.8
	KEV	iP	13 40 27.1				ipPKP		15 53.9		
		i	55.8				i		16 57.5		
	H: 13 34 15.8						ePP		17 10		
	39.7 N, 20.4 E, 14 km						iSKP		49.4		
	Greece-Albania border						i		58.0		
							ipPP		18 06.5		
							iPKS		13.0		
12	NUR	eP	16 17 53				esPKS		19 16		
	KJN	eP	16 17 47				eSKS		21 35		
	OUL	eP	16 17 52				e		25 00		
	H: 16 05 37.5						eSKKP		27 33		
	5.9 S, 112.0 E, 595 km						eSPP		28 28		
	Java Sea						e		30 16		
							e		31 24		
							eSS		34 25		
							e		36 44		
							eSSS		39 14		
						KJN	ePKP	07 14 31			
							i		38.3	0.7	21.9
							i		43.0		
							ipPKP		15 46.4		
							iPP		16 44.0		
							iSKP		17 35.3		
							isPP		18 02.8		
							i		19.6		
							isSKS		23 15.5		
							eSKKP		27 35		
							i		47.1		
						OUL	iPKP	07 14 37.4			
							iSKP		17 35.1		
							eSKKP		27 39		
						SOD	ePKP	07 14 31			
							i		36.3		
							iPP		16 28.7		
							esPP		17 40		
							eSKKP		27 41		
							eSS		33 14		
						KEV	iPKP	07 14 30.8		0.7	37.0
							i		33.8		
							ePP		16 20		
							ePKS		17 40		
							e		24 06		
							ePS		25 54		
							e		30 00		
	H: 01 02 28.5										
	39.9 N, 20.6 E, 8 km										
	Greece-Albania border										

cont.

October				October			
	T	A		T	A		
eSS	32	52		KEV	iP	07 02 22.8 U	
e	35	00		e		03 26	
eSSS	37	20		eS		04 04	
H: 06 56 01.6				H: 07 00 06.2			
18.9 S, 169.3 E, 246 km				73.4 N, 54.8 E, 0 km (G)			
New Hebrides Islands				Novaya Zemlya			
13 KJN eP 22 24 25				14 NUR eP 10 38 39	0.9	6.9	
H: 22 12 11.8				KJN eP 10 38 07			
9.8 N, 62.4 W, 55 km							
Venezuela				14 NUR iPKP 19 16 14.5	0.7	19.4	
				i		19.5	
				i		30.9	
13 KJN eP 23 20 29				KJN ePKP 19 16 03			
				i		09.6	0.7 7.5
14 NUR iPKP 00 52 10.2	0.7	9.2		OUL iPKP 19 16 03.9			
KJN iPKP 00 52 03.9				SOD ePKP 19 16 03			
OUL iPKP 00 52 02.6				H: 18 56 38.9			
H: 00 33 00.6				30.6 S, 178.1 W, 44 km			
21.9 S, 170.5 E, 79 km				Kermadec Islands			
Loyalty Islands							
14 NUR eP 02 40 19				14 NUR iP 20 49 24.6 U	0.6	16.3	
KJN iP 02 39 57.5				e		50	
OUL iP 02 39 56.4				KJN iP 20 49 04.3	0.6	26.0	
SOD iP 02 39 45.3				OUL iP 20 49 04.7 U			
H: 02 29 26.5				SOD iP 20 48 55.6 U			
40.4 N, 143.3 E, 54 km				KEV iP 20 48 46.4 U	0.8	33.1	
Honshu, Japan				H: 20 39 11.6			
				37.9 N, 135.1 E, 371 km			
14 NUR ePKP 04 23 13				Sea of Japan			
epPKP 53							
KJN ePKP 04 23 09				14 NUR iP 22 56 58.7 D	0.6	21.3	
OUL ePKP 04 23 04				i		57 07.0	
H: 04 03 55.1				KJN iP 22 56 34.7 D	0.5	16.2	
27.3 S, 176.6 W, 132 km				OUL iP 22 56 28.1 D			
Kermadec Islands				i		37.2	
				SOD iP 22 56 12.8 D			
14 NUR eP 04 27 21				KEV iP 22 55 55.5	0.6	20.0	
				i		56 05.0	
14 NUR iP 07 04 02.9	1.0	1055.8		H: 22 46 04.8			
i 03.8				52.6 N, 162.7 W, 15 km			
i 05 29.5				South of Alaska			
iS 07 04.3							
i 24.2				14 NUR eP 23 16 40			
KJN iP 07 03 13.6 U	0.5	586.5		KJN eP 23 16 15			
i 14.5				OUL iP 23 16 09.7			
eS 05 36				SOD eP 23 15 55			
OUL iP 07 03 08.2				KEV eP 23 15 38			
SOD iP 07 02 43.7 U				H: 23 05 56.6			
i 45.2				52.4 N, 171.5 W, 80 km			
iS 04 37.3				Fox Islands			
e 44							
cont.				15 SOD eP 00 02 26			

October				T	A	October				T	A	
15	NUR	ePKP	00 18 51			KJN	iP	21 21 52.0	0.9	8.9		
		i	58.0					H: 21 08 55.9				
		e	19 49					5.7 S, 105.7 E, 55 km				
	KJN	ePKP	00 18 50					Sunda Strait				
			H: 23 59 26.0									
			27.0 S, 176.5 W, 61 km			16	NUR	iP	12 15 12.5			
			Kermadec Islands				KJN	iP	12 15 10.0	0.8	9.2	
15	NUR	iPKP	01 27 41.4	0.6	8.8		OUL	iP	12 15 14.7			
		i	46.8				SOD	eP	12 15 16			
	KJN	iPKP	01 27 37.2					H: 12 02 38.1				
		i	39.5	0.7	8.9			4.3 S, 102.8 E, 153 km				
	OUL	iPKP	01 27 30.2					Southern Sumatra				
	SOD	ePKP	01 27 32			16	KJN	ePKP	21 04 24			
	KEV	ePKP	01 27 33					H: 20 45 09.8				
			H: 01 08 14.9					19.7 S, 174.6 W, depth N				
			27.2 S, 176.5 W, 58 km					Tonga Islands				
			Kermadec Islands			16	KJN	iP	21 10 02.2			
15	OUL	eP	04 07 34				OUL	eP	21 09 51			
	SOD	eP	04 07 34					ipP	10 15.7			
		e	08 11				SOD	iP	21 09 34.5			
			H: 03 56 06.6					ipP	58.0			
			19.3 N, 65.4 W, 50 km					H: 21 00 46.5				
			Puerto Rico					62.5 N, 151.3 W, 94 km				
								Central Alaska				
15	NUR	eP	05 54 34			16	NUR	eP	23 00 17			
	KJN	iP	05 54 23.9	0.7	9.6		KJN	eP	23 00 58			
		i	33.0									
	OUL	iP	05 54 26.5									
	SOD	eP	05 54 23			16	NUR	eP	23 11 06			
	KEV	eP	05 54 20				KJN	iP	23 10 51.2			
			H: 05 41 25.5					H: 23 02 07.3				
			4.2 N, 126.3 E, 22 km					38.7 N, 101.4 E, depth N				
			Talau Islands					Kansu, China				
15	NUR	ePKP	07 16 10			17	NUR	iP	01 35 07.6 D	0.7	365.1	
	KJN	iPKP	07 16 03.1					i	08.5			
	OUL	iPKP	07 16 02.5					i	33.1			
			H: 06 58 21.0					epP	42			
			13.0 S, 169.3 E, 656 km					i	37 00.4			
			New Hebrides Islands					ePP	10			
15	KJN	eP	12 06 58					epPP	52			
	OUL	eP	12 06 52					ePPP	38 50			
	SOD	eP	12 06 48					eS	43 04			
			H: 11 54 13.9					esS	44 10			
			14.3 N, 91.0 W, 105 km					eScS	44			
			Guatemala					e	45 44			
15	NUR	eP	21 21 53					eSS	47 16			
			cont.						cont.			

October						October						
					T	A				T	A	
	KEV	iP	01 24	05.0 U	1.4	164.0	19	KJN	eP	06 30 28		
		ipP		24.1					H:	06 18 01.8		
		isP		34.0						10.1 N, 126.1 E, 70 km		
		ePP		26 16						Philippine Islands		
		eS		32 12			19	NUR	eP	07 47 54		
		eSS		36 14				KJN	iP	07 47 31.3	0.8	4.6
	H:		01 13	59.7								
				39.3 N, 141.4 E, 107 km								
				Honshu, Japan			19	NUR	eP	09 16 02		
18	NUR	iP	01 25	30.0				KJN	eP	09 15 37		
	KJN	iP	01 25	07.9				OUL	eP	09 15 32		
	OUL	eP	01 25	08				H:		09 05 13.2		
										51.3 N, 178.5 W, 41 km		
										Andreanof Islands		
18	KJN	eP	06 15	09			19	NUR	iP	12 38 33.8 U	0.7	19.8
	H:		06 02	04.4					i	40.0		
				2.3 N, 127.7 E, 56 km					i	50.7		
				Molucca Passage					eS	49 14		
18	NUR	iP	06 49	36.0	1.0	18.5			e	54		
	KJN	iP	06 49	24.0				KJN	iP	12 38 23.1	0.7	23.1
18	NUR	iP	06 57	04.1					i	27.8		
	KJN	iP	06 57	03.8				OUL	eP	12 38 26		
	OUL	iP	06 57	14.0					e	40		
	SOD	eP	06 57	17				SOD	eP	12 38 22		
18	NUR	iP	08 54	37.2 U	1.0	280.9		KEV	eP	12 38 20		
		i		46.0	1.1	178.1			eS	48 48		
		ePP		57 04				H:		12 25 45.1		
		ePPP		58 46						7.7 N, 126.0 E, 60 km		
		eS	09 03	08						Mindanao, P.I.		
		eScS		04 44			19	NUR	iP	12 40 17.6	0.7	13.2
		eSS		07 36				KJN	iP	12 39 56.6	0.9	26.8
	KJN	iPcP	08 54	54.1				OUL	iP	12 39 56.5		
		ePP		56 31				SOD	eP	12 39 46		
	OUL	iP	08 54	06.3 U				H:		12 29 27.1		
		e		15						39.7 N, 139.3 E, depth N		
		ePcP		53						Honshu, Japan		
	SOD	iP	08 53	51.0 U			20	NUR	iP	04 21 04.7	0.6	17.9
		iPcP		54 43.1				KJN	iP	04 20 41.9		
	KEV	iP	08 53	35.0	1.1	85.7		OUL	iP	04 20 40.0		
		i		42.0				SOD	eP	04 20 27		
		ePS	09 01	24				H:		04 10 26.6		
		eSS		05 12						42.7 N, 145.3 E, 118 km		
	H:		08 44	00.0						Hokkaido, Japan		
				52.5 N, 173.5 E, 24 km (D)			20	KJN	iP	06 46 33.9 U	0.6	15.1
				Near Islands				OUL	eP	06 46 37		
18	KJN	eP	10 25	44				SOD	eP	06 46 34		
	H:		10 14	37.4				H:		06 34 35.4		
				24.6 N, 122.2 E, 52 km						2.7 N, 122.2 E, 560 km		
				Taiwan						Celebes Sea		

October						October							
					T	A				T	A		
21	NUR	iP	21 04	35.8 U	1.0	364.9	22	KJN	eP	09 25	33		
		i		46.3				OUL	eP	09 25	30		
		i		57.9				H: 09 15 48.3					
		e	06 25					52.6 N, 158.9 E, 63 km (D)					
		eS	13 28					Kamchatka					
		e	14 08				22	NUR	eSKS	10 46	52		
		eSS	18 00						ePS	50 16			
	KJN	iP	21 04	11.0 U	0.9	121.4			eSS	56 08			
		iPcP		54.4				H: 10 21 52.1					
	OUL	iP	21 04	05.2 U				18.1 S, 71.5 W, 23 km					
	SOD	iP	21 03	50.1				Northern Chile					
		i		51.8			22	NUR	iP	12 22	12.0	0.9	141.0
	KEV	iP	21 03	35.8					i		13.0		
	H: 20 53 47.5								i		23.8		
	51.3 N, 179.2 W, 48 km								iPcP		44.8		
	Andreanof Islands							KJN	iP	12 21	48.1 U	0.8	69.2
22	NUR	eP	02 42	58					i	22 00	2		
	KJN	iP	02 42	50.0					e		36		
	H: 02 33 21.2							OUL	iP	12 21	41.8		
	29.1 N, 95.8 E, 33 km								i		53.9		
	India-China border								i	22 34	2		
22	NUR	iP	03 21	22.0 D	0.9	36.1		SOD	iP	12 21	26.8		
		i		32.6					i		38.6		
	KJN	iP	03 20	57.7	0.8	11.5		KEV	iP	12 21	10.0	0.8	54.4
	OUL	iP	03 20	51.7 D					i		21.5		
	SOD	eP	03 20	36				H: 12 11 21.3					
	H: 03 10 30.0							52.2 N, 169.5 W, depth N					
	52.3 N, 169.4 W, 24 km							Fox Islands					
	Fox Islands						22	NUR	iP	13 04	20.1 U	0.8	111.7
22	NUR	eP	05 37	00					ipP		41.1		
	KJN	iP	05 36	39.8					i		56.0		
	H: 05 25 51.3								e	05 51			
	35.6 N, 140.0 E, 75 km							KJN	iP	13 04	26.2 U	1.0	175.5
	Honshu, Japan								ipP		48.0		
22	NUR	iPKP	06 16	41.2					e	06 08			
	KJN	ePKP	06 16	35				OUL	iP	13 04	21.4		
	H: 05 58 48.8								ipP		41.0		
	4.9 S, 154.2 E, 390 km							SOD	iP	13 04	21.8		
	Solomon Islands							KEV	iP	13 04	22.2	0.9	39.6
22	NUR	iPKP	07 30	36.5	0.8	16.1			i		38.5		
	KJN	ePKP	07 30	30				H: 12 52 22.0					
	H: 07 12 07.7							10.9 N, 62.6 W, 79 km					
	4.8 S, 152.5 E, 71 km							Venezuela					
	New Britain						22	NUR	iP	23 03	50.0	1.3	115.2
22	KJN	eP	07 49	30					eS	14 02			
	H: 07 38 46.2								eSS	19 28			
	39.1 N, 142.8 E, depth N								eSSS	22 48			
	Honshu, Japan							KJN	iP	23 03	35.9 U	1.6	292.6
									i		40.0		
								cont.					

October

T A

OUL iP 23 03 28.0
 i 41.2
 SOD iP 23 03 17.2
 KEV iP 23 03 04.6 1.6 184.6
 i 07.9
 eS 12 40
 ePS 13 12
 eSS 17 28
 eSSS 20 40
 H: 22 51 33.5
 34.8 N, 121.3 W, 15 km (G)
 California

23 KJN ePKP 01 58 13
 OUL ePKP 01 58 15
 SOD ePKP 01 58 17
 H: 01 39 22.1
 56.2 S, 27.3 W, 95 km
 South Sandwich Islands

23 NUR iP 02 17 29.0
 KJN eP 02 18 04
 i 40.0
 OUL eP 02 18 10
 SOD iP 02 18 29.5
 H: 02 12 53.4
 39.0 N, 15.0 E, 273 km
 Southern Italy

23 NUR ePKP 03 11 57
 KJN ePKP 03 11 52
 OUL ePKP 03 11 48
 i 51.7
 SOD ePKP 03 11 46
 KEV ePKP 03 11 46
 H: 02 52 54.7
 14.9 S, 166.8 E, 28 km
 New Hebrides Islands

23 NUR eP 10 32 16
 KJN eP 10 32 02 0.5 16.2
 OUL iP 10 32 02.7
 SOD iP 10 31 55.3
 KEV iP 10 31 48.2 0.5 17.2
 H: 10 20 10.0
 18.9 N, 144.9 E, 375 km
 Mariana Islands

24 NUR iPKP 00 45 24.4
 i 31.8 0.8 18.7
 i 46 14.5
 iSKP 48 12.3
 cont.

October

T A

KJN iPKP 00 45 22.2 0.7 15.1
 i 24.0
 eSKP 48 02
 OUL iPKP 00 45 23.3
 eSKP 48 01
 SOD ePKP 00 45 18
 iSKP 47 54.7
 KEV iPKP 00 45 15.0
 H: 00 27 08.8
 25.2 S, 178.4 E, 620 km (G)
 South of Fiji Islands

24 NUR iP 00 57 05.1 U 1.0 134.0
 i 17.2
 eS 01 06 06
 KJN iP 00 56 40.5 0.9 67.9
 i 50.0
 OUL iP 00 56 34.3
 SOD iP 00 56 19.0
 i 25.2
 KEV iP 00 56 02.0 0.9 43.7
 i 14.2
 H: 00 46 14.6
 52.5 N, 168.6 W, depth N
 Fox Islands

24 NUR iP 08 41 37.8 1.0 34.0
 eS 51 50
 eSS 57 20
 KJN iP 08 41 21.9 0.9 27.7
 i 23.7
 OUL iP 08 41 15.2
 i 22.4
 SOD eP 08 41 04
 i 06.5
 i 11.5
 KEV iP 08 40 54.0 0.8 24.5
 H: 08 29 12.1
 33.3 N, 119.2 W, 10 km
 Southern California

24 KJN iP 10 22 03.2
 H: 10 12 41.8
 11.9 N, 44.9 E, 25 km
 Western Gulf of Aden

24 KJN iP 11 46 56.2
 H: 11 34 43.6
 19.4 N, 145.6 E, 157 km
 Mariana Islands

24 KJN iP 20 38 55.2
 cont.

October				October			
		T	A			T	A
	OUL eP	20 38 44			OUL iPKP	04 34 58.4	
	SOD iP	20 38 36.6			H: 04 15 49.7		
	KEV iP	20 38 25.6			21.7 S, 169.9 E, depth N		
	H: 20 26 42.5				Loyalty Islands		
	33.3 N, 119.1 W, 2 km						
	Southern California						
24	KJN eP	21 57 40		26	NUR ePKP	06 57 06	0.9 87.4
	OUL iP	21 57 41.9			i	07.4	
	SOD eP	21 57 40			ipPKP	40.0	
	H: 21 44 06.7				iPKS	07 00 37.1	
	7.5 S, 127.7 E, 149 km				i	01 07.0	
	Banda Sea				eSS	18 00	
					eSSS	22 50	
25	KJN eP	05 30 11	0.7 11.0	KJN	iPKP	06 56 59.6	1.0 100.3
	i	15.6			ipPKP	57 30.2	
	OUL eP	05 30 13			ePP	59 17	
	SOD eP	05 30 10			eSKP	07 00 16	
	H: 05 17 07.4				iPKS	22.0	
	0.9 N, 125.7 E, 82 km				i	27.1	
	Molucca Passage				epPKS	51.4	
				OUL	iPKP	06 56 59.6	
25	NUR iP	12 14 30.4	0.5 28.4		ipPKP	57 29.1	
	KJN iP	12 14 09.0	0.8 28.5	SOD	iPKP	06 56 54.7	
	OUL iP	12 14 05.1			ipPKP	57 24.8	
	SOD iP	12 13 52.8		KEV	iPKP	06 56 50.3	1.1 102.3
	KEV iP	12 13 42.0			epPKP	57 22	
	H: 12 03 47.6				ePS	07 09 04	
	44.1 N, 147.8 E, 38 km (D)				eSS	15 20	
	Kurile Islands				H: 06 38 03.4		
					16.2 S, 173.9 W, 127 km (D)		
26	KJN eP	02 14 42			Tonga Islands		
	H: 02 02 03.2						
	9.1 N, 126.6 E, 26 km			26	NUR iP	15 40 37.0	0.9 142.8
	Mindanao, P.I.				i	42 49.6	
26	SOD eP	03 12 35			e(S)	43 22	
	H: 02 59 48.5			KJN	iP	15 41 24.0	0.7 43.2
	5.5 N, 126.6 E, 80 km				iS	45 05.8	
	Mindanao, P.I.				iPoP	48.4	
				OUL	iP	15 41 32.7	
26	NUR iPKP	04 04 21.0		SOD	iP	15 41 56.3	
	i	26.2			eS	46 10	
	KJN iPKP	04 04 17.0		KEV	iP	15 42 25.0	0.8 24.5
	OUL iPKP	04 04 15.0			i	42.8	
	H: 03 44 50.4				i	54.5	
	27.0 S, 176.5 W, 30 km				iPP	43 04.2	
	Kermadec Islands				eS	46 42	
					e	56	
26	NUR ePKP	04 35 05			e	47 08	
	KJN iPKP	04 34 58.7			H: 15 36 51.8		
	cont.				44.9 N, 17.3 E, depth N		
					Yugoslavia		

October							October								
					T	A					T	A			
28	NUR	iP	18 52	06.4	U	0.8	181.4	29	SOD	eP	20 11	25			
		i		24.4						H:	20 00	00.0			
		isP	53	06.1							37.1 N,	116.1 W,	0 km		
		iPP		33.8							Southern Nevada				
	KJN	iP	18 52	06.4	U	0.7	164.4	29	NUR	iP	22 13	48.0	1.0	44.0	
		i		28.7					OUL	iP	22 13	27.0			
		ipP		49.8					SOD	iP	22 13	15.7	U		
		isP	53	07.7					KEV	iP	22 13	03.2			
		iPP		31.0						H:	22 01	51.4			
		i		42.2							37.1 N,	116.1 W,	0 km		
	OUL	iP	18 52	14.8							Southern Nevada				
		ipP	53	01.4											
		iPP		45.0											
	SOD	iP	18 52	22.0	U			30	NUR	iP	00 16	29.2	1.2	82.3	
		i		38.4						ipP	17	05.5			
		ePP	53	53					OUL	iP	00 16	08.9			
	KEV	iP	18 52	30.8	U	0.6	128.8		SOD	iP	00 15	58.2			
		i		54.1						epP	16	33			
		ePP	54	08					KEV	iP	00 15	48.1	0.9	28.6	
		iPcP		32.3						H:	00 05	39.4			
		H:	18 45	10.6							37.6 N,	140.1 E,	151 km (D)		
			36.5 N,	70.9 E,	229 km						Honshu, Japan				
			Hindu Kush												
28	NUR	iP	19 35	23.8				30	NUR	iP	00 59	31.0			
	KJN	eP	19 35	00						i		32.9			
	OUL	iP	19 34	59.0					OUL	iP	00 59	20.8			
	SOD	iP	19 34	46.7					SOD	iP	00 59	15.6			
		H:	19 24	41.3					KEV	iP	00 59	11.6			
			43.7 N,	146.9 E,	55 km (G)					H:	00 47	59.8			
			Kurile Islands									22.4 N,	121.4 E,	48 km	
											Taiwan				
29	NUR	eP	04 47	41				30	SOD	eP	02 26	39			
	KJN	eP	04 47	17					KEV	iP	02 26	20.1			
	OUL	eP	04 47	16											
		H:	04 36	58.6											
			43.8 N,	146.3 E,	42 km										
			Kurile Islands												
29	OUL	eP	16 53	13				30	NUR	iP	08 02	31.9	0.4	46.8	
	SOD	eP	16 53	09						i		33.3			
		H:	16 40	07.3					OUL	iP	08 02	09.6			
			1.5 N,	126.2 E,	93 km				SOD	eP	08 01	56			
			Molucca Passage							i		57.4			
									KEV	iP	08 01	45.7	0.7	20.6	
										H:	07 51	50.1			
											41.6 N,	142.2 E,	89 km		
											Hokkaido, Japan				
29	NUR	iP	18 23	26.1				30	NUR	iP	12 24	41.3	0.7	41.3	
	OUL	iP	18 23	09.2						i		46.4			
	SOD	iP	18 23	01.3					OUL	iP	12 24	24.6			
	KEV	iP	18 22	53.4					SOD	iP	12 24	18.3			
		H:	18 12	15.9											
			27.5 N,	140.0 E,	453 km										
			Bonin Islands												

cont.

October

T A

SOD eP 11 57 35
H: 11 47 32.1
51.2 N, 179.0 W, 48 km
Andreanof Islands

31 KJN eP 12 43 48
OUL eP 12 43 44
SOD eP 12 43 27
H: 12 33 23.9
51.1 N, 179.1 W, 47 km
Andreanof Islands

October

T A

31 NUR eP 22 49 36
KJN eP 22 49 01
SOD eP 22 49 02
KEV eP 22 49 08

November 27, 1970

Urmas Luosto
Aili Huovila

22 DEC 1970

 Helsinki, Finland
 Seism. Bull. 1969

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November

November

1 KJN iP 02 49 56.8
 OUL eP 02 50 00
 SOD eP 02 49 53
 H: 02 38 43.0
 23.5 N, 121.2 E, 58 km
 Taiwan

1 NUR iP 04 25 16.8
 KJN eP 04 24 51
 OUL iP 04 24 46.8
 H: 04 14 27.7
 51.2 N, 179.0 W, 47 km
 Andreanof Islands

1 NUR iP 11 21 18.0 0.9 28.6
 i 31.9
 e 24 34
 ePP 52
 e 28 28
 eSKS 31 48
 eS 32 00
 ePS 33 06
 e 35 20
 eSS 37 48
 eSSS 41 20
 eLR 11 49.0
 KJN iP 11 21 07.0 0.6 34.9
 i 15.4
 eS 31 53
 OUL iP 11 20 54.8
 i 21 00.9
 i 04.5
 ePP 24 17
 SOD iP 11 20 53.5
 i 21 01.8
 e 18
 eS 31 18
 ePS 32 14
 eSS 36 40
 KEV iP 11 20 44.7 0.8 53.3
 i 48.0
 e 23 49
 ePP 24 08
 ePPP 25 42
 e 27 00
 eS 31 00
 ePPS 32 12
 eSS 36 00
 eSSS 39 40
 eLR 11 46.5

H: 11 08 20.9
 23.1 N, 107.9 W, depth N
 Gulf of California

T A

1 NUR iP 11 31 20.2
 KJN eP 11 31 00
 OUL iP 11 31 01.5
 SOD iP 11 30 52.2
 H: 11 20 50.5
 35.5 N, 135.3 E, 348 km
 Southern Honshu, Japan

2 KJN iPKP 02 51 42.4
 iSKP 54 17.5
 OUL iPKP 02 51 41.2
 SOD ePKP 02 51 37
 iSKP 54 09.4
 KEV iSKP 02 54 02.7
 H: 02 33 34.6
 22.1 S, 179.8 W, 640 km
 South of Fiji Islands

2 KJN eP 06 27 57
 OUL eP 06 27 55
 SOD eP 06 27 44
 H: 06 18 30.8
 46.0 N, 142.9 E, 344 km
 Sakhalin Island

2 KJN i 19 06 18.2
 OUL eP 19 06 17
 SOD eP 19 06 18
 H: 18 53 06.6
 6.5 S, 107.1 E, 57 km
 Java

2 NUR eP 23 04 56
 KJN eP 23 04 48
 OUL iP 23 04 52.1
 SOD eP 23 04 48
 H: 22 51 43.3
 0.9 N, 125.2 E, 67 km
 Molucca Passage

3 KJN ePKP 03 49 31
 OUL ePKP 03 49 33
 SOD ePKP 03 49 31
 H: 03 30 19.3
 45.8 S, 123.2 E, depth N
 South of Australia

3 NUR iP 04 09 05.6 0.8 45.5
 KJN eP 04 08 53

3 NUR iPKP 07 04 47.7
 KJN iPKP 07 04 38.0
 cont.

November

November

	T	A		T	A
OUL iPKP 07 04 38.7 SOD ePKP 07 04 32 H: 06 45 00.6 36.8 S, 178.0 E, depth N North Island, N.Z.					
3 NUR iPKP 08 45 00.3 OUL iPKP 08 44 51.3 SOD ePKP 08 44 45 H: 08 25 13.1 36.6 S, 177.5 E, 14 km North Island, N.Z.	0.8	15.2			
3 NUR iPKP 11 06 42.2 i 49.3 KJN iPKP 11 06 35.2 OUL iPKP 11 06 32.6 H: 10 47 18.9 29.8 S, 178.2 W, 123 km Kermadec Islands	0.9	46.7			
3 KJN eP 13 30 53 SOD eP 13 30 53 H: 13 19 26.7 20.5 N, 120.4 E, depth N Philippine Islands					
3 KJN iP 15 09 05.9 OUL eP 15 09 00 SOD eP 15 08 41 H: 14 58 32.8 50.7 N, 129.5 W, depth N Vancouver Island	1.2	24.1			
3 KJN ePKP 20 25 50 H: 20 06 59.4 59.0 S, 26.0 W, 153 km (D) South Sandwich Islands					
3 NUR iP 22 00 45.5 KJN iP 22 01 00.2 OUL iP 22 01 11.8 SOD iP 22 01 24.5 KEV iP 22 01 40.2 H: 21 53 16.1 26.7 N, 53.7 E, 8 km Southern Iran	1.0	32.0			
3 NUR eP 23 31 46 OUL iP 23 31 58.3 SOD iP 23 32 05.9 cont.					
			KEV eP 23 32 15 H: 23 22 12.6 17.3 N, 73.9 E, depth N India		
			4 KJN iP 01 20 23.1 OUL iP 01 20 16.9 SOD eP 01 20 02		
			4 NUR iP 09 01 29.4 U eS 10 12 KJN iP 09 01 10.1 U epP 02 28 i 40.5 eS 09 38 OUL iP 09 01 10.9 SOD iP 09 01 01.4 e 17 KEV iP 09 00 53.2 i 01 11.2 eS 09 08 H: 08 50 46.9 33.8 N, 137.1 E, 347 km Honshu, Japan	0.4	35.2
				0.5	20.6
				0.9	21.8
			4 NUR iP 09 03 34.0 KJN iP 09 03 09.3 OUL iP 09 03 07.7 SOD eP 09 02 55 KEV eP 09 02 43		
			4 NUR eP 09 31 39 KJN eP 09 31 14 SOD iP 09 31 00.6 H: 09 20 50.4 43.6 N, 147.7 E, depth N Kurile Islands		
			4 NUR ePKP 10 59 18 KJN ePKP 10 59 17 H: 10 40 00.1 26.6 S, 114.8 W, depth N Easter Island		
			4 NUR eP 12 16 14 KJN eP 12 15 48 OUL iP 12 15 43.9 SOD eP 12 15 28 H: 12 05 23.9 51.1 N, 179.1 W, 45 km (G) Andreanof Islands		

November

November

				T	A					T	A	
4	NUR	iP	14 40 56.2	0.9	24.2	OUL	iP	21 11 50.8				
	KJN	eP	14 40 28			SOD	eP	21 12 06				
		i	31.7	0.7	8.2		e	35				
	OUL	eP	14 40 24			KEV	eP	21 12 18				
	SOD	eP	14 40 09			H: 21 05 56.9						
	KEV	iP	14 39 48.8			40.2 N, 50.2 E, depth N						
	H: 14 30 05.8					Caspian Sea						
	52.3 N, 169.6 W, 42 km											
	Fox Islands					4	KJN	iP	22 17 22.2	1.5	69.9	
							OUL	eP	22 17 29			
4	NUR	eP	15 06 43				SOD	iP	22 17 25.2			
						H: 22 04 11.9						
4	NUR	eP	17 06 53			0.1 S, 125.0 E, depth N						
	SOD	eP	17 06 29			Molucca Sea						
4	NUR	eP	17 30 02			4	NUR	iPKP	23 58 38.8	1.0	27.4	
	KJN	iP	17 29 38.8					ipPKP	24 00 59.3			
	OUL	iP	17 29 37.2					iSKP	01 20.7			
	SOD	iP	17 29 24.3			KJN	iPKP	23 58 32.3	0.7	11.6		
		e	33 23					ipPKP	24 00 53.2			
	H: 17 19 14.9							iSKP	01 08.8			
	43.6 N, 147.7 E, depth N							ePKS	02 03			
	Kurile Islands					OUL	iPKP	23 58 33.4				
								ipPKP	24 00 48.4			
4	NUR	iP	20 23 17.5					iSKP	01 09.6			
		i	20.2	0.5	13.9	SOD	ePKP	23 58 27				
		i	30.3					ipPKP	24 00 45.0			
		e	24 57					iSKP	01 01.0			
		eS	27 42			KEV	ePKP	23 58 23				
		e	50					iSKP	24 00 53.5			
	KJN	iP	20 23 31.0	0.5	12.5	H: 23 40 22.7						
		i	24 33.3			22.2 S, 179.7 W, 610 km						
		eS	28 19			South of Fiji Islands						
		i	40.0									
	OUL	iP	20 23 45.2			5	KJN	eP	08 16 52			
		i	55.0			H: 08 09 16.4						
	SOD	eP	20 23 58			36.2 N, 76.1 E, 38 km						
		i	24 48.4			Kashmir-Sinkiang border						
	KEV	iP	20 24 14.1									
	H: 20 17 47.7					5	SOD	eP	17 11 07			
	40.3 N, 50.3 E, 29 km											
	Caspian Sea											
4	NUR	eP	20 42 41			5	NUR	iP	18 06 25.9	1.3	140.0	
								i	42.4			
4	NUR	iP	21 11 28.0					i	07 37.8			
		i	56.0					ePP	09 32			
	KJN	iP	21 11 39.3					e	10 52			
		i	12 22.7					e	13 10			
		e	16 13					eS	16 36			
		eS	23					eSS	21 36			
			cont.						cont.			

November

November

				T	A					T	A
	eSSS	25 14				5	NUR	iP	21 08 29.0		
	eLR	18 32.2					KJN	iP	21 08 12.8	0.6	8.2
	LZ			20	8.9u		OUL	iP	21 08 18.2		
	LN			20	4.3u		SOD	iP	21 08 15.3		
	LE			20	2.9u		H: 20 58 47.0				
KJN	iP	18 06 13.3 U		1.3	156.2		32.6 N, 101.9 E, depth N				
	i	08 53.3					Szechwan, China				
	iPP	09 12.2									
OUL	iP	18 06 05.8				5	NUR	iP	23 16 49.4		
SOD	iP	18 05 55.3 U					KJN	iP	23 16 36.4	0.6	22.6
	i	06 06.0					i		47.3		
	ePP	08 44					OUL	iP	23 16 39.4		
	eS	15 42					SOD	iP	23 16 35.6		
	ePS	16 10					KEV	iP	23 16 32.3		
KEV	iP	18 05 43.6		1.1	97.6		H: 23 04 59.7				
	ePP	08 20					19.2 N, 120.5 E, 17 km				
	ePPP	10 12					Philippine Islands				
	eS	15 12									
	eScS	48				6	NUR	iP	02 06 29.8		
	eSS	20 04					KJN	iP	02 06 06.2		
	eSSS	23 24					OUL	iP	02 06 05.0		
	eLR	18 28.5					SOD	iP	02 05 52.3		
	LZ			20	10.4u		KEV	iP	02 05 40.1		
	LN			20	6.4u		H: 01 55 43.0				
	LE			19	4.9u		43.6 N, 147.9 E, depth N				
	H: 17 54 13.6						Kurile Islands				
	34.8 N, 121.2 W, depth N										
	California										
5	OUL	eP	19 00 40			6	NUR	eP	04 43 28		
	SOD	eP	19 00 30				i		30.2		
	H: 18 48 48.9						KJN	eP	04 43 44	0.8	20.0
	34.8 N, 121.2 W, depth N						i		45.3		
	California						ePP		45 21		
5	NUR	eP	19 09 44				OUL	eP	04 43 53		
	KJN	iP	19 10 00.5				i		55.2		
	OUL	iP	19 10 10.4				SOD	eP	04 44 08		
	SOD	iP	19 10 27.1				KEV	iP	04 44 24.5	0.8	20.2
	KEV	iP	19 10 40.7				eSS		54 24		
	H: 19 02 18.1						H: 04 36 00.7				
	26.5 N, 53.6 E, depth N						26.3 N, 53.7 E, depth N				
	Southern Iran						Southern Iran				
5	NUR	iP	20 34 42.1	0.7	15.1	6	KJN	iP	13 26 39.0		
	KJN	iP	20 34 35.8 U	0.8	16.1		KEV	eP	13 26 21		
	OUL	iP	20 34 43.0 U				H: 13 13 56.5				
	SOD	iP	20 34 44.2 U				15.7 N, 93.5 W, 114 km				
	KEV	iP	20 34 47.9	0.7	16.8		Chiapas, Mexico				
	H: 20 25 13.8										
	27.7 N, 90.2 E, 13 km					6	NUR	eP	13 32 30		
	Bhutan						cont.				

November

T A

KEV iP 07 31 17.7
H: 07 21 29.7
45.5 N, 150.1 E, 52 km (D)
Kurile Islands

8 SOD eP 15 50 54
H: 15 39 13.2
2.8 S, 11.9 W, depth N
North of Ascension Island

8 KJN eP 20 39 51
SOD iP 20 40 04.6
KEV iP 20 40 13.9
H: 20 28 23.9
3.0 S, 12.1 W, depth N
North of Ascension Island

8 NUR ePKP 21 18 30
i 35.1
KJN iPKP 21 18 27.6 U 0.5 15.4
SOD ePKP 21 18 25
H: 21 00 16.1
22.1 S, 179.7 W, 600 km (G)
South of Fiji Islands

8 NUR eP 22 08 40
eSKS 19 12
eS 20 14
eSP 21 28
KJN eP 22 08 28
i 38.0
iPP 12 12.2
SOD eP 22 08 24
i 35.1
KEV iP 22 08 33.6 0.9 18.5
i 39.2 1.3 68.2
eSKS 19 07
ePS 21 03
eSS 26 00
H: 21 55 09.2
1.1 S, 127.0 E, depth N
Halmahera

8 KJN eP 23 39 20
SOD eP 23 39 18
H: 23 26 00.0
1.0 S, 127.0 E, 55 km
Halmahera

9 KJN eP 01 22 50
H: 01 09 24.3
1.0 S, 127.1 E, 19 km
Halmahera

November

T A

9 KJN eP 01 35 37
H: 01 22 10.6
1.2 S, 126.9 E, 69 km
Molucca Sea

9 NUR iPKP 09 26 36.8 0.7 40.1
i 37.6
iSKP 29 40.0
e 35 12
KJN iPKP 09 26 30.2 0.7 27.4
ePP 28 12
iSKP 29 28.0
iPKKP 36 09.2
OUL iPKP 09 26 29.8
SOD iPKP 09 26 25.4
ePP 28 08
iPKKP 36 17.2
KEV iPKP 09 26 22.2 0.8 21.6
ePKS 29 34
eSKS 33 04
e 34 34
iPKKP 36 23.4
ePS 37 40
e 38 28
H: 09 07 50.9
16.3 S, 167.9 E, 185 km
New Hebrides Islands

9 KJN ePKP 19 48 20
H: 19 29 14.8
25.4 S, 177.2 W, 190 km
South of Fiji Islands

10 NUR eP 10 53 26
KJN iP 10 53 02.6
OUL eP 10 53 01
SOD iP 10 52 48.7
H: 10 42 37.1
43.4 N, 147.8 E, depth N
Kurile Islands

10 KJN iP 11 41 08.5
H: 11 27 56.6
8.7 S, 112.1 E, 133 km
Java

10 SOD eP 13 43 53
i 46 57.3

November

				T	A
	SOD	iP	01 37 12.3		
		e	43		
	H: 01 27 04.2				
	43.6 N, 146.7 E, depth N				
	Kurile Islands				
12	NUR	eP	07 06 26		
	KJN	iP	07 06 00.0	0.6	11.6
	OUL	iP	07 05 56.8		
	SOD	eP	07 05 41		
	KEV	eP	07 05 26		
12	NUR	iP	12 40 30.0 U	0.7	81.0
		i	37.0		
	KJN	iP	12 40 06.6 U	1.0	74.1
		i	13.5		
	OUL	iP	12 40 05.8 U		
		i	12.9		
	SOD	iP	12 39 54.1 U		
	KEV	iP	12 39 43.1	0.8	47.5
		i	49.2		
	H: 12 29 42.5				
	42.4 N, 144.9 E, depth N				
	Hokkaido, Japan				
12	NUR	iP	18 34 38.4	0.4	16.7
	KJN	iP	18 34 18.3 U	0.7	24.0
	OUL	iP	18 34 18.1 U		
	SOD	iP	18 34 07.8 U		
	H: 18 23 25.8				
	35.4 N, 140.7 E, 69 km				
	Honshu, Japan				
12	NUR	iP	19 19 46.3 U	1.1	142.8
		ePPP	23 48		
		eS	28 36		
		eSS	33 08		
	KJN	iP	19 19 22.1 U	1.2	82.6
		i	44.1		
		ePcP	20 01		
	OUL	iP	19 19 15.5		
	SOD	iP	19 19 00.5		
	KEV	iP	19 18 45.2	0.8	21.6
		iPcP	19 38.0		
		ePP	20 52		
		ePPP	22 12		
		eS	26 36		
		eSS	30 44		
	H: 19 09 02.0				
	53.0 N, 168.3 W, 53 km				
	Fox Islands				

November

				T	A
13	NUR	ePKP	05 16 51		
		iSKP	19 43.5		
	KJN	ePKP	05 16 51		
		iSKP	19 33.2		
	SOD	eSKP	05 19 21		
	H: 04 58 30.9				
	23.7 S, 179.9 E, 540 km				
	South of Fiji Islands				
13	NUR	iPKP	08 10 11.5	1.0	36.0
		eS	19 16		
		ePS	21 08		
		eSS	27 24		
	KJN	ePKP	08 10 15		
	SOD	ePKP	08 10 15		
		i	28.6		
	KEV	eS	08 19 28		
		ePS	21 24		
		eSS	28 00		
	H: 07 51 29.5				
	27.8 S, 71.6 W, depth N				
	Northern Chile				
14	SOD	eP	05 47 19		
14	NUR	ePKP	07 56 34		
		i	45.1	0.8	31.0
		ipPKP	57 41.0		
		iSKP	08 00 00.5		
		iPKS	16.7		
		esPKS	01 32		
		eSKS	04 04		
		e	07 34		
		e	12 36		
		eSS	17 16		
		esSS	18 44		
		e	20 40		
		e	23 44		
	KJN	iPKP	07 56 35.7	1.0	32.7
		ipPKP	57 34.3		
		iSKP	59 45.4		
		iPKS	08 00 03.4		
	OUL	iPKP	07 56 34.8		
		ipPKP	57 33.2		
		iSKP	59 44.4		
	SOD	iPKP	07 56 31.3		
		ipPKP	57 28.2		
		iSKP	59 36.1		
	KEV	iPKP	07 56 26.8		
		ePKS	59 44		

cont.

November

T A

eSS 08 15 24
esSS 16 52
H: 07 37 45.7
19.7 S, 175.9 W, 209 km (D)
Tonga Islands

14 NUR eP 09 48 14
KJN eP 09 48 18
OUL eP 09 48 22

Moscow:
H: 09 41 19
39.1 N, 70.2 E
Afghanistan-USSR

14 NUR iP 21 34 12.0
i 21.9

15 NUR ePn 00 06 30
eSn 08 10
iSg 09 12.0
KJN ePn 00 06 27
eSn 08 04
i 13.3
iSg 09 05.0
OUL eSg 00 08 37
SOD eSn 00 07 45
iSg 08 48.5

Helsinki:
H: 00 04 14
65 N, 6½ E
Norwegian Sea

15 NUR eP 02 59 44
i 48.1
eS 03 04 04
KJN eP 03 00 18
SOD eP 03 00 43
H: 02 54 37.4
37.8 N, 29.8 E, 6 km
Turkey

15 NUR iP 03 41 21.2 0.8 14.4
KJN iP 03 41 14.1

15 NUR eP 03 46 54
i 47 27.2
KJN iP 03 46 31.6 0.7 9.6
OUL eP 03 46 33
SOD iP 03 46 19.5
H: 03 35 56.5
40.2 N, 143.6 E, 34 km
Honshu, Japan

November

T A

15 NUR iP 18 01 27.9
KJN iP 18 01 07.6
OUL eP 18 01 07
SOD eP 18 00 57
H: 17 50 18.9
36.5 N, 141.2 E, 49 km
Honshu, Japan

15 NUR eP 20 18 10
SOD eP 20 18 36

16 NUR iP 00 06 15.7 0.7 21.9
ePP 07 52
KJN iP 00 06 31.5 0.8 8.5
OUL iP 00 06 41.7
SOD iP 00 06 55.5
KEV eP 00 07 11
H: 23 58 52.1
26.8 N, 53.5 E, 42 km
Southern Iran

16 NUR eP 08 00 45
KJN iP 08 00 17.5
OUL iP 08 00 10.3
SOD iP 07 59 53.7
KEV eP 07 59 31
H: 07 51 11.0
64.1 N, 147.5 W, 34 km
Central Alaska

16 KJN iP 10 42 51.2 0.9 17.0
OUL iP 10 42 45.1
H: 10 30 01.7
13.4 N, 89.7 W, 79 km
El Salvador

16 OUL eP 14 31 00
H: 14 20 43.0
51.2 N, 177.8 E, 30 km
Rat Islands

16 NUR ePKP₂ 16 39 34
ePKP₂ 53
KJN iP₂ 16 39 36.2 0.9 16.1
iPKP₂ 43.3
OUL iP₂ 16 39 35.6
ePKP₂ 43
SOD iP₂ 16 39 34.0
KEV iP₂ 16 39 30.8 0.8 23.0
H: 16 19 46.5
46.2 S, 165.7 E, depth N
South Island, N.Z.

November

November

		T	A			T	A
18	NUR ePKP	21 05 06		20	NUR iP	21 40 39.4	1.0 18.0
	e	22			i	54.0	
	KJN iP	21 05 00.8			KJN eP	21 40 45	
	i	13.9					
	OUL ePKP	21 04 58		20	NUR iP	22 53 53.0	
	KEV ePKP	21 04 49			i	54 04.7	
	H: 20 45 41.6				SOD iP	22 53 16.6	
	22.3 S, 175.3 W, depth N						
	Tonga Islands			20	NUR iP	23 56 38.1	
					i	42.6	0.8 37.4
19	NUR iP	08 54 47.0 U	0.8 90.7		eS	24 05 18	
	i	51.4			eScS	06 24	
	iPP	57 05.5			eSS	09 24	
	KJN iP	08 54 25.5	0.8 141.5		KJN iP	23 56 14.3	0.9 11.6
	i	31.6			i	18.3	1.0 50.1
	iPcP	55 17.5			OUL iP	23 56 06.9	
	ePP	56 44			i	11.7	
	OUL iP	08 54 26.8			SOD iP	23 55 48.7	
	i	55 07.2			i	51.1	
	ipP	58.4			i	55.3	
	iPP	56 43.0			i	56 52.7	
	SOD iP	08 54 16.3 U			KEV iP	23 55 33.3	0.9 13.4
	iPP	56 29.0			i	37.9	
	KEV iP	08 54 07.1	0.8 46.1		ePP	57 48	
	i	13.8			eS	24 03 12	
	ipP	55 38.3			eSS	07 04	
	H: 08 45 03.3				H: 23 46 11.6		
	41.8 N, 133.7 E, 423 km				56.6 N, 153.2 W, depth N		
	Sea of Japan				Kodiak Island		
19	NUR iP	13 23 58.7		21	NUR iP	00 24 41.1	0.8 17.3
	KJN iP	13 23 56.2 U	0.7 18.5		KJN iP	00 24 17.0	0.8 16.1
	OUL iP	13 24 02.2			i	23.7	
	SOD iP	13 24 04.1			ePcP	25 02	
	KEV iP	13 24 07.5	0.8 11.5		OUL iP	00 24 09.1	
	i	16.8			SOD iP	00 23 54.2	
	H: 13 11 45.8				i	24 01.7	
	0.9 N, 97.8 E, 33 km (D)				KEV iP	00 23 36.5	0.8 30.2
	Northern Sumatra				H: 00 14 12.5		
					56.3 N, 153.4 W, depth N		
20	NUR iP	21 11 14.7	0.9 43.7		Kodiak Island		
	ipP	27.2					
	KJN iP	21 10 51.6	0.9 37.5				
	ipP	11 04.2		21	NUR iP	00 40 21.1	0.9 26.9
	OUL iP	21 10 50.5			i	28.1	
	ipP	11 04.9			KJN iP	00 39 56.8 U	1.1 32.4
	SOD iP	21 10 37.3			i	40 05.1	
	ipP	50.8			OUL iP	00 39 50.0	
	KEV iP	21 10 25.1	1.0 38.0		i	57.9	
	H: 21 00 29.0				SOD iP	00 39 34.2 U	
	43.3 N, 147.9 E, 53 km				i	41.7	
	Kurile Islands					cont.	



November				November			
		T	A			T	A
21	NUR eP	17 32 14		22	NUR eP	20 39 37	
	KJN eP	17 31 51			H: 20 34 41.2		
	SOD eP	17 31 37			37.8 N, 23.4 E, 61 km		
	H: 17 21 31.7				Southern Greece		
	44.0 N, 147.7 E, 40 km (G)			22	NUR iP	23 19 25.0	1.6 1380.6
	Kurile Islands				i	26.1	
22	NUR iPKP	05 20 06.4 U	0.7 104.5		i	39.5	
	i	11.3			i	20 07.0	
	KJN iPKP	05 19 55.8	0.5 10.3		ePP	21 44	
	i	20 04.0			i	52.1	
	OUL iPKP	05 19 56.0			eS	27 30	
	i	20 03.2			ePS	40	
	SOD iPKP	05 19 52.4			eP'P'	49 11	
	H: 05 00 39.6				e	19	
	28.2 S, 177.2 W, 65 km (G)			KJN iP	23 18 58.5 U	1.5 865.8	
	Kermadec Islands				iPP	21 06.0	
22	SOD eP	06 29 12			i	26 19.3	
22	NUR eP	06 49 46			iS	34.4	
	KJN eP	06 49 22			iScS	28 56.1	
	OUL iP	06 49 20.2		OUL iP	23 18 54.5		
	SOD eP	06 49 08			eP'P'	49 12	
22	NUR iP	11 33 54.4	0.6 16.3	SOD iP	23 18 37.8		
	i	34 08.0			i	50.6	
	KJN iP	11 33 29.8	0.5 5.1		iPP	20 41.2	
	OUL iP	11 33 26.4			eS	25 54	
	SOD eP	11 33 14			eP'P'	49 14	
	H: 11 23 18.4			KEV iP	23 18 21.6		
	47.1 N, 154.2 E, 60 km				i	23.9	
	Kurile Islands				i	38.5	
22	NUR iP	14 23 47.5			ePP	20 08	
	KJN iP	14 23 23.1			ePPP	21 16	
	OUL iP	14 23 15.6			eS	25 30	
	H: 14 13 20.3				i	48 23.9	
	56.7 N, 152.5 W, 25 km				H: 23 09 37.2		
	Kodiak Island				57.8 N, 163.5 E, depth N		
22	KJN iP	15 15 33.2 U	1.0 27.3		Kamchatka		
	OUL iP	15 15 36.4		22	NUR eP	23 38 10	
	SOD iP	15 15 33.6		23	SOD eP	00 57 11	
	H: 15 02 22.9			23	NUR iP	00 58 32.2	0.8 16.9
	6.9 S, 127.4 E, 330 km				KJN iP	00 58 03.6	1.5 53.3
	Banda Sea				SOD eP	00 57 44	
22	KJN iP	15 35 02 5	0.5 2.9		H: 00 48 40.3		
22	KJN ePKP	19 47 05			57.3 N, 163.1 E, 33 km		
	OUL ePKP	19 47 03			Kamchatka		
	H: 19 27 45.9			23	NUR eP	01 29 47	
	22.3 S, 174.9 W, depth N			23	NUR eP	01 47 04	
	Tonga Islands				H: 01 37 12.4		
					57.3 N, 163.2 E, depth N		
					Kamchatka		

November				November					
		T	A		T	A			
23	NUR ePKP	04 28 48					SOD iP	17 30 38.2 D	
	KJN ePKP	04 28 43					ipP	31 06.1	
	H:	04 09 17.4					isP	18.8	
		27.0 S, 176.4 W, 50 km (G)					iPP	32 12.2	
		Kermadec Islands					epPP	45	
							eS	36 22	
23	NUR eP	07 19 32					e	52	
	KJN iP	07 19 08.4	0.8	14.6			KEV iP	17 30 46.4 0.9 203.3	
	OUL iP	07 19 06.9					i	31 10.7	
		i 12.3					isP	28.8	
	SOD iP	07 18 54.3					iPP	32 22.2	
	KEV iP	07 18 42.3					epPP	53	
	H:	07 08 45.4					eS	36 44	
		43.5 N, 147.7 E, 45 km (G)					e	37 18	
		Kurile Islands					H:	17 23 20.2	
								37.2 N, 71.7 E, 123 km (D)	
23	NUR iP	11 46 48.1						Afghanistan-USSR border	
	i	47 35.2					24	NUR iP	21 21 34.0 0.6 20.0
	eS	51 46					KJN iP	21 21 24.5 0.9 14.3	
	KJN iP	11 46 57.0 U 1.3 34.7					OUL iP	21 21 14.3	
	i	47 33.9					i	30.9	
	i	48 07.6					SOD eP	21 21 04	
	SOD eP	11 47 21					KEV iP	21 20 56.1	
	e	48 09					H:	21 14 13 7	
	KEV iP	11 47 36.4						60.6 N, 58.8 W, depth N	
	eS	53 12						Davis Strait	
	H:	11 40 45.1					24	NUR iPKP	21 49 25.4 1.2 34.2
		38.3 N, 55.5 E, 38 km						i	29.1 1.1 140.4
		Iran-USSR border						iSKP	52 05.6
24	KJN eP	02 10 41 0.8 9.2					ipKS	53 00.3	
	OUL eP	02 10 48					eSS	22 09 12	
	SOD iP	02 10 45.7					KJN iPKP	21 49 21.5 0.9 70.5	
	H:	02 01 09.3					iSKP	51 53.1	
		30.6 N, 98.9 E, 12 km					ipKS	52 47.2	
		Tibet					OUL iPKP	21 49 20.8	
24	NUR iP	15 50 22.6 0.8 14.4					iSKP	51 51.7	
	H:	15 44 23.2					SOD iPKP	21 49 17.0	
		38.4 N, 55.2 E, 49 km					iSKP	51 43.4	
		Iran-USSR border					KEV iPKP	21 49 12.9 1.0 92.0	
24	NUR iP	17 30 23.2 1.0 464.0					ePKS	52 36	
	ipP	51.2					e	57 08	
	isP	31 03.1					esPS	22 04 14	
	iPP	32 07.3					eSS	07 28	
	eS	36 00					H:	21 31 17.6	
	e	36						18.0 S, 178.4 W, 593 km (D)	
	esS	56						Fiji Islands	
	KJN iP	17 30 22.0 D					24	NUR iP	22 19 42.7 0.8 46.1
	ipP	50.2					SOD eP	22 19 30	
	OUL iP	17 30 31.8					24	NUR iP	23 02 19.6 0.8 53.3
	ipP	59.8						cont.	
		cont.						cont.	

November

November

		T	A			T	A
	OUL eP 01 35 39 H: 01 29 28.1 36.7 N, 45.2 E, 16 km Iran-Iraq border			29	KJN iP 22 47 08.3 eS 49 14 OUL eP 22 46 53 eS 48 44 e 56 SOD eP 22 46 29 e 47 13 eS 57 KEV iP 22 46 05.5 eS 47 13	0.6	13.0
28	NUR iPKP 15 07 04.8 KJN ePKP 15 07 03 H: 14 48 18.7 26.4 S, 178.6 W, 375 km South of Fiji Islands						
28	NUR iP 20 30 46.2 KJN iP 20 30 23.6 OUL iP 20 30 23.3 SOD iP 20 30 11.7 H: 20 20 01.3 41.4 N, 142.4 E, 60 km Hokkaido, Japan	0.5	9.0	30	NUR eS 00 48 44 NUR iP 03 39 24.6 U i 31.8 i 40 12.5 KJN iP 03 39 11.0 U i 54.0 OUL iP 03 39 17.9 U e 40 07 SOD iP 03 39 17.8 i 55.1 i 40 10.3 KEV iP 03 39 20.6 U i 57.2 i 40 10.0 H: 03 32 57.2 49.9 N, 79.0 E, 0 km (G) Eastern Kazakh SSR	0.6	780.8
29	SOD eP 03 54 21						
29	NUR iP 16 22 05.4 KJN iP 16 21 40.6 U OUL iP 16 21 38.2 SOD eP 16 21 25 H: 16 11 25.9 46.6 N, 154.1 E, 53 km (D) Kurile Islands	0.9	15.2				
29	NUR eP 16 54 20 KJN iP 16 54 01.2 SOD eP 16 53 51 KEV eP 16 53 45 H: 16 43 15.7 33.3 N, 132.3 E, 48 km Shikoku, Japan			30	NUR eP 04 23 25 e 41 KJN eP 04 23 06 OUL eP 04 23 08 SOD eP 04 22 51 e 23 08 H: 04 12 21.4 33.2 N, 132.4 E, 49 km Shikoku, Japan		
29	KJN eP 18 42 07 H: 18 29 07.8 2.2 N, 126.5 E, 101 km Molucca Passage						
29	KJN ePKP 20 52 03 H: 20 33 43.3 16.5 S, 176.6 W, 424 km Fiji Islands			30	KJN ePn 08 30 19 eSn 51 e 57 OUL ePn 08 30 03 iSn 21.6 cont.		

November

T A

SOD ePn 08 30 20
 eSn 52
 KEV eSg 08 31 58
 Helsinki:
 H: 08 29 34
 65.3 N, 22.1 E
 Gulf of Bothnia

30 KJN eP 12 59 45
 H: 12 48 53.9
 34.8 N, 139.9 E, 94 km
 Honshu, Japan

30 NUR eP 17 12 13
 SOD eP 17 12 01

November

T A

30 KJN ePKP 21 46 45
 H: 21 27 41.6
 16.9 S, 167.7 E, 10 km
 New Hebrides Islands

December 10, 1970

Urmas Luosto
 Aili Huovila

PLO

~~NO PHASE DATA~~

December

			T	A	
1	NUR	iPKP 02 34 55.0 eSKP 37 35			
	KJN	iPKP 02 34 47.5	0.7	12.3	
	OUL	ePKP 02 34 46			
	H: 02 16 42.7 18.4 S, 178.0 W, 600 km (G) Fiji Islands				
1	NUR	eP 13 12 00			
	KJN	iP 13 12 15.6			
	SOD	eP 13 12 40			
	H: 13 04 34.1 26.5 N, 53.5 E, depth N Southern Iran				
1	KJN	iP 13 14 08.3			
	SOD	iP 13 14 10.4			
	H: 13 01 20.1 0.2 S, 123.0 E, 196 km Northern Celebes				
1	NUR	eP 20 08 46			
	SOD	iP 20 07 59.8			
	KEV	iP 20 07 42.1	0.7	14.2	
	H: 19 58 18.2 56.5 N, 153.6 W, depth N Kodiak Island				
1	NUR	iP 20 23 29.4 U	0.8	47.5	
		i 31.8			
		i 51.7			
		i 24 19.2			
	KJN	iP 20 24 02.2 U	0.8	30.8	
		i 07.0			
	SOD	iP 20 24 31.7			
	KEV	iP 20 24 53.0	0.6	11.3	
	H: 20 18 06.3 35.0 N, 24.3 E, 53 km Crete				
1	NUR	eP 20 41 37			
	SOD	eP 20 40 48			
	H: 20 31 08.8 56.5 N, 153.2 W, 39 km Kodiak Island				
1	NUR	iPKP 20 53 48.9	1.2	85.5	
		e 54 46			
	KJN	iPKP 20 53 55.4			
		iSKP 57 04.0			
		iPKS 20.6			
	cont.				

December

			T	A	
	SOD	ePKP 20 53 58			
	H: 20 35 05.2 60.0 S, 28.5 W, 163 km South Sandwich Islands				
1	NUR	iP 22 25 24.6	1.1	47.6	
		i 42.0			
		i 55.6			
		eS 34 48			
		eScS 35 36			
		eSS 39 24			
	LZ		22	4.1u	
	LN		20	1.1u	
	LE		20	2.5u	
	KJN	iP 22 25 30.0	1.2	89.4	
	SOD	iP 22 25 25.7			
	KEV	iP 22 25 26.2	1.0	46.0	
		i 42.0			
		i 26 29.0			
		eS 34 54			
		eSS 39 28			
	H: 22 13 53.4 16.7 N, 60.8 W, 41 km Leeward Islands				
1	SOD	eP 23 38 44			
2	SOD	eP 00 11 02			
2	NUR	iP 18 09 46.9 U	0.8	158.4	
		i 54.8			
		ipP 10 11.9			
		eSKS 20 00			
		eS 20			
		esS 21 00			
		eSS 26 16			
		eSSS 29 52			
	KJN	iP 18 09 35.4	0.7	190.4	
		i 37.0			
		ipP 10 02.1			
		eSKS 19 48			
		eS 20 01			
	SOD	iP 18 09 34.8			
		i 10 05.3			
		i 15.4			
	KEV	iP 18 09 32.5	1.0	36.0	
		ipP 59.5			
		ePP 12 52			
		ePPP 14 44			
		eSKS 19 42			
		eS 56			
	cont.				

December

T A

epS 20 30
esPS 21 40
eSS 25 34
eSSS 29 24
H: 17 57 04.3
8.2 N, 126.3 E, 102 km
Mindanao, P.I.

2 NUR iP 18 23 56.8
KJN eP 18 23 57
SOD iP 18 24 13.7
KEV eP 18 24 22
H: 18 17 00.6
36.5 N, 70.6 E, 206 km
Hindu Kush

2 NUR iP 18 27 54.5
KJN iP 18 27 33.8 1.1 31.1
SOD iP 18 27 33.8

2 KJN iP 19 12 14.8 0.8 12.3
SOD eP 19 12 03
H: 19 01 39.4
40.2 N, 143.9 E, 37 km
Honshu, Japan

2 SOD eP 22 53 34
H: 22 46 15.5
33.9 N, 58.6 E, depth N
Iran

3 NUR eP 02 40 05
KJN eP 02 40 12
i 24.0 1.0 14.2
SOD eP 02 40 32
ePP 42 23
KEV e 02 40 51
H: 02 31 47.5
24.7 N, 65.4 E, depth N
West Pakistan

3 NUR iP 12 44 58.2 0.8 21.6
KJN iP 12 44 31.5 0.8 16.9
SOD iP 12 44 12.0
H: 12 34 52.3
54.7 N, 161.4 E, 35 km (D)
Kamchatka

3 NUR eP 16 51 17
KJN iP 16 51 17.5
SOD eP 16 51 35
H: 16 44 20.2
36.4 N, 71.1 E, 211 km
Afghanistan-USSR border

December

T A

4 NUR iP 00 46 02.0 0.9 28.6
i 22.0
KJN iP 00 45 59.0 0.9 25.0
i 46 23.8
SOD iP 00 46 07.4
e 33
KEV iP 00 46 11.4 0.7 21.9
H: 00 34 58.6
12.4 N, 93.7 E, depth N
Andaman Islands

4 NUR iP 03 16 07.6 0.9 18.5
KJN iP 03 15 54.0 0.8 16.1
SOD iP 03 15 48.7
H: 03 02 56.7
12.1 N, 143.6 E, depth N
South of Mariana Islands

4 NUR iP 04 57 42.5 0.9 23.5
i 58 03.0
KJN iP 04 57 32.8 1.0 45.8
H: 04 37 59.0
32.9 S, 178.0 W, depth N
South of Kermadec Islands

4 NUR iP 09 01 19.0 D 1.0 96.0
i 28.0
eS 10 14
eSS 14 42
KJN iP 09 00 57.3 D 1.0 141.7
i 01 13.1
SOD iP 09 00 45.0
i 53.1
KEV iP 09 00 34.2 0.6 50.0
i 42.0
eS 08 48
eSS 12 36
H: 08 50 21.6
40.7 N, 144.7 E, 20 km
Honshu, Japan

5 NUR iP 03 23 56.8 0.8 33.1
KJN iP 03 23 45.4 0.7 17.8

5 NUR ePKP 08 41 25
KJN iP 08 41 17.4
H: 08 22 21.3
14.5 S, 166.7 E, depth N
New Hebrides Islands

5 KJN iP 10 05 48.0
SOD iP 10 05 55.8

December

T A

5 NUR iP 11 47 36.8 0.9 18.5
 KJN iP 11 47 53.2 1.0 14.2
 SOD eP 11 48 15
 KEV iP 11 48 29.2 0.7 6.5
 H: 11 38 40.3
 14.5 N, 53.3 E, depth N
 Arabian Sea

5 KJN eP 17 11 43
 SOD eP 17 11 24
 H: 17 00 00.0
 37.2 N, 116.2 W, 0 km
 Southern Nevada

5 KJN iP 17 37 19.4
 H: 17 26 14.8
 30.0 N, 131.9 E, 57 km
 Kyushu, Japan

5 NUR iP 17 58 28.0 0.8 41.8
 KJN eP 17 58 17

6 NUR iP 02 54 05.7

6 NUR iP 04 40 17.0 0.6 16.3
 KJN iP 04 40 15.0 D 0.7 12.3
 SOD iP 04 40 30.4
 KEV iP 04 40 38.0 0.6 6.3
 H: 04 33 14.8
 37.9 N, 73.0 E, 131 km
 Tadzhik SSR

6 NUR iP 06 10 22.9
 SOD eP 06 09 37
 H: 05 59 44.0
 54.4 N, 163.3 W, 33 km
 Unimak Island

6 NUR iP 07 08 18.8 U 0.8 272.2
 i 26.0 0.7 429.6
 iPcP 11 51.9
 iS 12 43.0
 i 59.6
 LZ 19 0.7u
 LN 19 0 u
 LE 19 0.4u
 KJN iP 07 08 26.4 U 0.9 276.8
 i 35.2
 iS 12 57.8
 i 13 10.8
 SOD iP 07 08 50.8 U
 i 54.7
 cont.

December

T A

ePcP 12 03
 i 14 07.1
 KEV iP 07 09 04.8 U 1.0 19.0
 i 16.5
 i 33.3
 iPcP 12 11.1
 LZ 18 1.0u
 LN 18 0.7u
 LE 18 0.3u
 H: 07 02 57.4
 43.8 N, 54.8 E, 0 km (G)
 Western Kazakh SSR

6 NUR ePKP 15 12 57
 KJN iPKP 15 13 04.2 0.9 21.4
 e 21
 SOD iPKP 15 13 09.5
 H: 14 54 00.8
 58.7 S, 25.1 W, depth N
 South Sandwich Islands

6 NUR iP 15 46 58.0
 KJN eP 15 46 38
 SOD eP 15 46 31
 H: 15 35 27.7
 30.7 N, 140.4 E, 116 km
 South of Honshu, Japan

6 NUR eP 20 23 30
 e 40
 KJN iP 20 23 00.3 0.6 13.0
 SOD eP 20 22 18
 KEV iP 20 22 03.6

7 NUR iPKP 04 14 37.4 0.7 32.8
 KJN iPKP 04 14 30.0 U 0.9 29.5
 SOD iPKP 04 14 26.0
 KEV iPKP 04 14 22.9 0.9 26.9
 H: 03 55 31.1
 18.1 S, 168.2 E, 49 km
 New Hebrides Islands

7 NUR ePKP 08 10 28
 KJN ePKP 08 10 20
 H: 07 51 21.0
 18.2 S, 168.1 E, 40 km
 New Hebrides Islands

7 KJN iP 13 46 21.6 0.7 21.9
 SOD iP 13 46 23.9
 H: 13 32 45.2
 6.7 S, 129.6 E, 119 km
 Banda Sea



December

December

		T	A			T	A
	eSSS 35 00				OUL iP 01 23 50.1		
	LZ 22	22	10.0u		i 58.7		
	LN 20	20	3.6u		SOD iP 01 23 38.5 U		
	LE 20	20	4.6u		i 47.2		
	H: 19 53 58.2				KEV iP 01 23 27.4	0.9	33.6
	14.8 S, 167.0 E, 21 km				i 37.4		
	New Hebrides Islands				eS 31 50		
					H: 01 13 11.4		
10	NUR ePKP 22 11 03	0.9	25.2		40.1 N, 143.8 E, 11 km		
	KJN iPKP 22 10 56.4	0.9	16.1		Honshu, Japan		
	H: 21 52 02.2						
	14.7 S, 166.5 E, 75 km			12	NUR eP 04 14 22		
	New Hebrides Islands				KJN iP 04 14 28.3	0.9	13.4
					SOD eP 04 14 21		
11	NUR ePKP 01 04 42				H: 04 07 57.3		
	e 56				52.8 N, 31.9 W, depth N		
	KJN iPKP 01 04 34.4				North Atlantic Ridge		
	SOD ePKP 01 04 28			13	NUR eSn 03 10 51		
	H: 00 45 40.5				eSg 11 32		
	14.9 S, 166.7 E, 43 km				KJN eSn 03 10 17		
	New Hebrides Islands				eSg 49		
11	KJN iPKP 05 27 12.3				OUL eSn 03 09 51		
	H: 05 08 58.1				eSg 10 14		
	15.3 S, 177.4 W, 465 km				SOD eSn 03 09 46		
	Fiji Islands				iSg 10 11.3		
11	SOD ePKP ² 10 53 20			13	NUR eS 03 27 16		
	H: 10 33 07.6				KJN eP 03 18 21		
	50.0 S, 114.9 W, depth N				H: 03 06 40.0		
	Easter Island Cordillera				1.0 N, 27.9 W, depth N		
11	NUR iP 13 39 43.0				Central Mid-Atlantic Ridge		
11	KJN eP 22 53 38			13	NUR iP 03 31 18.1	1.0	36.0
	SOD iP 22 52 51.5				i 27.0		
	KEV iP 22 52 31.1	0.7	11.6		KJN iP 03 31 37.4	0.8	49.2
12	NUR eSKSP 00 59 10				i 43.9		
	e 01 05 52				OUL iP 03 31 36.5		
	eSS 09 30				SOD iP 03 31 44.7		
	eSSS 17 06				KEV iP 03 31 52.6	0.8	30.2
	KEV eSS 01 09 09				H: 03 19 58.3		
	H: 00 22 47.3				1.0 N, 28.0 W, depth N		
	62.3 S, 161.8 W, depth N				Central Mid-Atlantic Ridge		
	South Pacific Cordillera			13	NUR iP 03 51 14.5 U	0.7	37.0
12	NUR iP 01 24 12.0 U	1.1	41.5		KJN iP 03 50 55.3 U	0.7	28.8
	i 22.3				OUL iP 03 50 56.6 U		
	KJN iP 01 23 50.5 U	0.9	78.6		SOD iP 03 50 47.0		
	i 58.6				H: 03 40 34.8		
	cont.				34.0 N, 137.0 E, 358 km		
					Honshu, Japan		

December

T A

eScS 56 48
 eSSS 19 01 08
 KJN iP 18 47 12.3 1.8 594.9
 iPcP 48 01.4
 iPP 49 22.7
 iPPP 50 53.2
 iS 55 25.0
 iPPS 46.7
 OUL iP 18 47 22.1
 SOD iP 18 47 33.7
 iPcP 48 11.3
 ePPP 51 22
 eS 56 03
 KEV iP 18 47 46.0 D 1.0 160.0
 iPcP 48 23.9
 eS 56 24
 eScS 57 40
 eSS 19 00 40
 eSSS 03 16
 H: 18 37 09.5
 8.2 N, 58.5 E, depth N
 Carlsberg Ridge
 14 NUR eP 19 30 44
 KJN iP 19 30 36.2
 OUL iP 19 30 39.3
 SOD eP 19 30 35
 H: 19 18 52.9
 6.4 N, 123.6 E, 600 km
 Mindanao, P.I.
 14 KJN iP 22 51 40.7 0.8 10.0
 OUL eP 22 51 36
 SOD eP 22 51 35
 H: 22 39 26.5
 11.4 N, 65.1 W, 32 km (D)
 Caribbean Sea
 15 NUR eS 00 10 12
 KEV eS 00 11 48
 H: 23 53 55.9
 12.4 N, 48.1 E, depth N
 Eastern Gulf of Aden
 15 NUR eP 00 25 05
 KJN iP 00 24 47.0 1.0 12.0
 OUL eP 00 24 42
 SOD e 00 24 41
 H: 00 14 23.2
 51.4 N, 179.5 W, 35 km
 Andreanof Islands

December

T A

15 NUR eP 03 53 23
 KJN eP 03 53 24
 OUL iP 03 53 34.8
 H: 03 46 17.8
 36.3 N, 68.5 E, 39 km
 Hindu Kush
 15 NUR eP 15 58 29
 KJN iP 15 58 45.2 0.7 14.4
 i 55.8
 OUL iP 15 58 56.2
 SOD eP 15 59 09
 Moscow:
 H: 15 53 21
 41.5 N, 43.0 E
 Caucasus
 16 NUR eP 11 52 10
 KJN eP 11 52 51 0.8 10.8
 OUL eP 11 53 00
 i 04.5
 SOD eP 11 53 20
 H: 11 47 31.6
 39.3 N, 20.6 E, 64 km
 Greece-Albania border
 16 KJN eP 15 24 33
 OUL eP 15 24 28
 16 NUR ePS 15 41 36
 eSS 45 52
 eSSS 50 14
 KEV eSS 15 45 08
 eSSS 49 28
 17 NUR iP 01 54 15.1 0.8 11.5
 KJN eP 01 54 12
 17 NUR iP 02 41 44.6
 KJN iP 02 41 42.2
 OUL iP 02 41 47.5
 SOD iP 02 41 49.7
 KEV e 02 42 19
 H: 02 29 42.0
 2.9 N, 98.6 E, 52 km
 Northern Sumatra
 17 NUR iP 06 43 19.2
 KJN iP 06 43 18.8 0.6 5.5
 OUL iP 06 43 28.1
 cont.

December				T	A	December				T	A
	iS		49 03.0			19	NUR	iP	04 40 48.6	0.4	10.0
	eScS		50 38					eS	49 42		
SOD	iP	13	41 14.6 U					eSS	54 04		
	iPcP		42 09.0			KJN	iP	04 40 25.2	0.5	10.3	
	ipP		33.5					e	36		
	eScP		45 35			OUL	iP	04 40 23.7			
	eS		48 40			SOD	iP	04 40 11.3			
	eScS		50 30					i	36.2		
KEV	iP	13	41 03.1 U	0.8	95.0	KEV	eP	04 40 01			
	i		06.1	0.9	322.6		eS	48 00			
	i		25.0				eSS	52 20			
	iPcP		59.5			H: 04 29 59.7					
	ipP		42 21.0			43.2 N, 147.7 E, 29 km					
	esP		56			Kurile Islands					
	ipPP		44 29.0			19	NUR	iP	13 40 57.5	1.1	38.1
	isPP		45 27.8				KJN	iP	13 40 33.4 U	1.0	45.8
	eS		48 20				OUL	iP	13 40 24.6		
	eScS		50 20				SOD	iP	13 40 08.8 U		
	e		51 38					i	14.0		
	e		52 00			KEV	iP	13 39 51.0	1.0	40.0	
	e		54 04				eS	47 00			
H: 13 32 05.2						H: 13 30 54.6					
46.3 N, 142.5 E, 344 km (G)						60.2 N, 147.0 W, 14 km					
Sakhalin Island						Southern Alaska					
18	KJN	iP	18 38 51.8	0.9	11.6	19	KJN	i(P)	14 51 19.2		
	i		39 03.7	1.1	33.8		OUL	e(P)	14 51 27		
	OUL	iP	18 38 55.9				SOD	e(P)	14 51 27		
	i		39 07.3				KEV	i(P)	14 51 31.0		
H: 18 25 59.0						H: 14 41 18.8					
5.7 S, 104.0 E, 47 km						24.4 N, 93.6 E, 57 km					
Southern Sumatra						Burma-India border					
18	NUR	eP	19 04 19			19	KJN	iP	15 07 11.3		
	KJN	iP	19 03 52.3	0.6	13.0						
	OUL	iP	19 03 35.0								
	SOD	iP	19 03 17.9								
	KEV	iP	19 03 04.1								
	i		11.8	0.7	15.5	19	NUR	eP	23 59 31		
H: 19 00 39.9							KJN	eP	24 00 01		
71.7 N, 2.7 W, depth N						H: 23 54 39.3					
Jan Mayen Island						39.2 N, 22.3 E, 65 km (G)					
						Greece					
18	NUR	eP	19 11 59			20	KJN	iP	02 20 24.7	1.1	16.2
	KJN	iP	19 11 43.2	0.8	12.3		OUL	eP	02 20 30		
	OUL	iP	19 11 35.0				SOD	eP	02 20 28		
	SOD	iP	19 11 24.8					e	35		
	KEV	eP	19 11 13			H: 02 09 12.8					
H: 19 00 00.0						18.4 N, 110.6 E, depth N					
37.1 N, 116.0 W, 0 km						Hainan Island					
Southern Nevada											

December				December			
		T	A			T	A
20	NUR iP	04 30	35.0		SOD ePKP	00 48	37
	KJN eP	04 30	34		H:	00 29	50.0
	OUL eP	04 30	44			29.7 S, 179.1 W,	268 km
	SOD eP	04 30	50			Kermadec Islands	
20	KJN iP	05 50	53.2	21	SOD eP	01 22	42
	SOD eP	05 50	43				
	H:	05 40	00.9	21	NUR iP	10 29	32.5 D 1.0 54.0
		35.5 N, 140.4 E,	64 km		i		46.4
	Honshu, Japan				KJN iP	10 29	14.1 1.0 37.1
20	NUR iP	07 02	57.0		OUL iP	10 29	16.5
	KJN eP	07 02	48		SOD eP	10 29	08
20	OUL iP	09 37	26.8		KEV iP	10 29	02.1 1.1 33.3
	Moscow:				H:	10 18	02.4
	H:	09 30	18			28.2 N, 130.6 E,	28 km
		38.2 N, 69.6 E				Ryukyu Islands	
	Pamir			21	NUR iP	12 31	02.9 0.6 26.3
20	OUL iP	13 19	02.2		i		13.0
	SOD eP	13 19	00		KJN iP	12 30	39.9 0.8 16.9
	H:	13 05	28.5		OUL iP	12 30	38.5
		7.2 S, 129.2 E,	180 km (G)		SOD iP	12 30	26.8
	Banda Sea				e		37
20	NUR eP	14 36	32		KEV iP	12 30	15.9 0.8 20.2
	OUL iP	14 36	06.9		H:	12 20	14.8
	SOD eP	14 35	54			42.5 N, 144.9 E,	28 km
	H:	14 25	44.8			Hokkaido, Japan	
		43.6 N, 147.5 E,	depth N	21	NUR eP	15 24	04
	Kurile Islands				KJN iP	15 24	00.9 0.7 10.3
20	NUR eP	17 45	42		SOD eP	15 24	05
	i		45.4 0.7 6.5		H:	15 11	18.2
	KJN eP	17 46	15			6.5 S, 108.3 E,	221 km
	OUL eP	17 46	24			Java	
	SOD eP	17 46	45	21	KJN eP	15 46	06
	ipP		47 05.2		SOD eP	15 46	23
	H:	17 40	36.3	21	NUR ePKP	16 51	25
		36.6 N, 23.5 E,	88 km		KJN ePKP	16 51	17
	Southern Greece				OUL iPKP	16 51	17.9
21	NUR iPKP	00 48	56.0 U 0.8 138.2		H:	16 32	32.8
	i		49 09.0			15.3 S, 167.7 E,	129 km
	epPKP		50 06			New Hebrides Islands	
	iSKP		52 08.7	21	NUR eP	19 09	47
	KJN ePKP	00 48	44		i		57.2 0.7 10.3
	OUL iPKP	00 48	43.3		iS		12 27.1
	i		50.8		i		14 08.0
	iSKP		51 58.7		KJN eP	19 10	34
	cont.				i		42.6
					cont.		

December				December			
		T	A			T	A
	eS	13	44				
OUL	eP	19	10 46				
	i	11	03.5				
	eS	14	11				
	i	16	32.5				
SOD	iP	19	11 13.0				
	i		15.4				
	e	14	51				
	eS	15	10				
KEV	eP	19	11 38	1.0	24.0		
	i		45.1				
	eS	16	02				
	H: 19 06 22.2						
	45.6 N, 26.9 E, 34 km						
	Rumania						
21	NUR	eP	22 06 17				
		e	28				
	KJN	eP	22 06 49				
		e	07 02				
	H: 22 01 06.7						
	36.7 N, 28.4 E, 68 km						
	Dodecanese Islands						
22	NUR	eP	00 22 01				
	KJN	eP	00 21 39				
	OUL	eP	00 21 36				
	SOD	eP	00 21 24				
22	NUR	eP	01 25 50				
	KJN	iP	01 25 27.0				
	OUL	iP	01 25 24.7				
		e	36				
	SOD	eP	01 25 13				
		e	24				
	H: 01 15 03.3						
	43.6 N, 147.7 E, depth N						
	Kurile Islands						
22	NUR	eP	01 39 49				
	KJN	iP	01 39 37.0				
	H: 01 27 07.2						
	9.8 N, 126.1 E, 61 km						
	Mindanao, P.I.						
22	NUR	eP	04 52 22				
	KJN	eP	04 52 58				
22	KJN	iP	05 18 28.5				
	H: 05 06 27.9						
	13.6 N, 120.7 E, 44 km						
	Mindoro, P.I.						
22	KJN	eP	10 28 52				
	H: 10 16 12.1						
	15.3 N, 144.9 E, 99 km						
	Mariana Islands						
22	NUR	iP	11 30 09.5 U	0.8	87.8		
		i	21.1				
		i	32.4				
		ePS	39 44				
		e	43 50				
	KJN	iP	11 29 45.1 U	0.8	54.6		
		i	57.2				
	OUL	iP	11 29 38.7				
	SOD	iP	11 29 23.6 U				
		i	32.8				
	KEV	iP	11 29 06.8 U	0.8	43.2		
		eS	37 00				
		eScS	38 54				
		eSS	40 52				
	H: 11 19 19.3						
	52.5 N, 168.1 W, depth N						
	Fox Islands						
22	NUR	eP	11 42 52				
22	NUR	eP	12 34 35				
	KJN	iP	12 34 10.7				
	OUL	iP	12 34 02.0				
	SOD	eP	12 33 46				
	H: 12 24 41.4						
	61.6 N, 140.3 W, 4 km						
	Southern Yukon, Canada						
22	NUR	iPKP	21 11 15.5	0.7	36.1		
		i	25.0	0.8	80.6		
	KJN	ePKP	21 11 06				
	OUL	ePKP	21 11 04				
	H: 20 51 41.4						
	29.0 S, 176.6 W, 31 km						
	Kermadec Islands						
23	NUR	eP	02 27 30				
	KJN	eP	02 27 05				
	H: 02 18 11.5						
	52.5 N, 152.4 E, 488 km						
	Northwest of Kurile Islands						
23	KJN	eP	12 54 18				
	KEV	iP	12 54 30.1				
	H: 12 42 59.5						
	7.3 N, 34.7 W, depth N						
	Central Mid-Atlantic Ridge						

December				December					
		T	A			T	A		
	eSS	58	32		KEV	iP	00 27 52.7 U	0.6	62.5
	LZ	20	67.1u			i	28 09.0		
	LN	22	40.3u			i	33.3		
	LE	20	42.8u		H:	00 18 21.0			
	H:	21 32 27.3				55.2 N, 160.4 W, 25 km			
		15.8 N, 59.7 W, 7 km				Alaska Peninsula			
	Leeward Islands								
25	NUR	eP	22 25 19		26	NUR	eP 05 46 03		
	H:	22 13 46.9				H:	05 34 33.4		
		15.8 N, 59.6 W, depth N					16.1 N, 59.7 W, depth N		
	Leeward Islands						Leeward Islands		
25	NUR	eP	22 29 14		26	NUR	iP 08 57 48.4		
	KJN	iP	22 29 20.8				i 58 00.7		
	SOD	eP	22 29 17			KJN	iP 08 57 55.0	0.9	13.4
	H:	22 17 42.9				SOD	iP 08 57 51.9		
		16.2 N, 59.8 W, 25 km					i 58 03.1		
	Leeward Islands					H:	08 46 15.2		
							15.8 N, 59.6 W, 22 km		
							Leeward Islands		
25	NUR	iP	22 37 46.0		26	NUR	iP 10 45 33.2		
	KJN	iP	22 37 53.4			KJN	iP 10 45 39.0	0.9	9.8
	H:	22 26 11.8				KEV	iP 10 45 36.3		
		15.8 N, 59.7 W, 15 km				H:	10 33 59.8		
	Leeward Islands						16.1 N, 59.8 W, 16 km		
							Leeward Islands		
25	NUR	iP	22 42 36.2		26	NUR	eP 10 57 51		
	i	40.2	1.2 94.1			H:	10 46 17.8		
	i	52.3					16.3 N, 59.7 W, 9 km		
	KJN	iP	22 42 43.2	1.1 120.4			Leeward Islands		
	i	47.5							
	iPP	45 38.9			26	SOD	eP 12 06 13		
	SOD	iP	22 42 39.0			H:	11 54 41.1		
	i	43.0	0.7 41.3				16.2 N, 59.7 W, 6 km		
	KEV	eP	22 42 38				Leeward Islands		
	i	41.6							
	H:	22 31 02.3							
		16.1 N, 59.8 W, 8 km							
	Leeward Islands								
26	NUR	eP	00 22 45		26	NUR	iPKP 15 34 02.2		
	H:	00 11 14.4				H:	15 14 57.2		
		16.0 N, 59.7 W, depth N					18.1 S, 168.2 E, 51 km		
	Leeward Islands						New Hebrides Islands		
26	NUR	iP	00 28 57.2 U	0.8 57.6	26	NUR	iP 20 15 00.2	0.8	25.9
	i	29 13.5					i 14.4		
	KJN	iP	00 28 33.2	0.5 41.2		KJN	iP 20 15 07.1 U	1.1	55.4
	i	48.4					i 21.1		
	iPoP	29 14.4				SOD	iP 20 15 03.1		
	SOD	iP	00 28 10.2				i 17.6		
	i	26.3				KEV	iP 20 15 03.7 U		
	i	52.0					i 18.2		
	cont.					H:	20 03 28.8		
							15.8 N, 59.6 W, depth N		
							Leeward Islands		



December				December			
		T	A		T	A	
27	KJN eP	03 09 21			OUL iP	14 14 35.6	
	SOD eP	03 09 18			SOD iP	14 14 37.3 U	
	H:	02 57 09.0			KEV eP	14 14 38	
		13.9 N, 125.2 E, depth N			H:	14 03 04.4	
		Philippine Islands				16.2 N, 59.6 W, depth N	
27	NUR iP	03 24 21.1	0.7	12.9		Leeward Islands	
	i	30.5			27	NUR iP	15 55 24.5 1.0 28.0
27	NUR eP	07 36 38			KJN iP	15 55 32.1 U	1.5 106.6
	KJN eP	07 37 15			OUL iP	15 55 25.7	
	H:	07 31 52.1			i	37.7	
		59.1 N, 23.9 E, 31 km			SOD iP	15 55 27.3	
		Aegean Sea			KEV iP	15 55 27.2	0.7 11.6
					i	39.5	
27	KJN eP	09 25 01			H:	15 43 54.7	
	SOD eP	09 25 06				16.2 N, 59.7 W, depth N	
	H:	09 11 20.3				Leeward Islands	
		10.0 S, 118.9 E, depth N			28	NUR eP	01 29 58
		South of Sumbawa Island			KJN iP	01 29 35.6	
27	KJN eP	10 07 12			OUL iP	01 29 33.4	
	H:	09 55 35.5			SOD iP	01 29 21.8	
		16.2 N, 59.6 W, depth N			H:	01 19 13.4	
		Leeward Islands				43.6 N, 147.8 E, 47 km	
						Kurile Islands	
27	NUR eP	10 41 14			28	NUR iP	03 53 19.1 U 0.6 74.2
	KJN eP	10 40 44			i	54 07.5	
	SOD eP	10 40 08			KJN iP	03 53 06.4 U	0.5 101.4
27	NUR iP	11 42 00.5			i	54 10.3	
	KJN iP	11 41 49.2	1.0	16.4	OUL iP	03 53 13.4 U	
27	NUR eP	11 50 40			i	51.3	
	e	51			iPcP	56 12.7	
	KJN eP	11 50 45			SOD iP	03 53 13.7 U	
	i	58.0			i	54 04.2	
	SOD iP	11 50 42.7			KEV iP	03 53 16.8 U	0.6 41.3
	H:	11 39 07.7			i	44.1	
		15.8 N, 59.6 W, depth N			i	54 07.8	
		Leeward Islands			H:	03 46 58.0	
27	NUR iP	12 05 54.2				50.0 N, 77.8 E, 0 km (G)	
	KJN iP	12 05 29.0				Eastern Kazakh SSR	
	SOD eP	12 05 09			28	NUR iP	04 35 27.0 0.9 17.2
27	KJN eP	13 20 18			KJN iP	04 35 04.2	
	H:	13 08 41.4			OUL iP	04 35 01.9	
		16.2 N, 59.6 W, depth N			SOD iP	04 34 49.7	
		Leeward Islands			H:	04 24 41.1	
						43.8 N, 147.7 E, 30 km (G)	
27	NUR iP	14 14 34.0	1.3	47.7		Kurile Islands	
	KJN iP	14 14 41.8 U	1.3	80.3	28	NUR iP	05 03 57.1 0.9 58.5
		cont.			eS	12 40	
					eSS	17 16	
						cont.	

December				T	A	December				T	A
	KJN	iP	05 03 34.0	0.9	44.7	28	OUL	eP	17 04 17		
		i	43.1						H: 16 52 41.6		
	OUL	iP	05 03 30.9						15.2 N, 59.8 W, depth N		
	SOD	iP	05 03 19.7						Leeward Islands		
		i	20.8								
		i	04 12.2			28	NUR	iP	20 12 52.2		
	KEV	iP	05 03 07.4	0.7	15.5		KJN	iP	20 12 27.4	0.5	8.1
		ePP	05 16				OUL	iP	20 12 21.1		
		eS	11 12				SOD	eP	20 12 06		
								ePcP	55		
			H: 04 53 09.2				KEV	eP	20 11 49		
			43.5 N, 147.9 E, 26 km						H: 20 02 11.5		
			Kurile Islands						53.8 N, 165.8 W, 52 km		
28	NUR	eP	05 17 38						Fox Islands		
	KJN	iP	05 17 14.8			28	NUR	ePKP	21 43 57		
	OUL	iP	05 17 12.3				KJN	ePKP	21 43 50		
	SOD	eP	05 17 01				OUL	ePKP	21 43 47		
	KEV	eP	05 16 49						H: 21 25 28.2		
			H: 05 06 52.7						22.3 S, 179.4 W, 485 km (G)		
			43.6 N, 147.7 E, 45 km (G)						South of Fiji Islands		
			Kurile Islands			28	NUR	eP	22 07 08		
28	NUR	ePKP	08 33 24				KJN	iP	22 07 44.2		
	OUL	iPKP	08 33 15.9				OUL	iP	22 07 51.4		
			H: 08 14 50.4				SOD	eP	22 08 13		
			11.5 S, 167.1 E, 204 km						H: 22 02 34.3		
			Santa Cruz Islands						40.7 N, 19.8 E, depth N		
28	OUL	eP	10 36 18						Albania		
			H: 10 24 46.9			28	NUR	eP	22 59 24		
			16.0 N, 59.9 W, depth N					i	31.0		
			Leeward Islands				KJN	iP	22 59 15.3		
28	NUR	iP	14 48 45.3				OUL	eP	22 59 21		
		e	57				SOD	eP	22 59 14		
	KJN	iP	14 48 22.0						H: 22 47 38.2		
		i	28.6						18.4 N, 120.3 E, 51 km		
	OUL	eP	14 48 20						Luzon, P.I.		
	SOD	iP	14 48 07.9			28	KJN	eP	23 34 49		
	KEV	iP	14 47 55.8				OUL	eP	23 34 44		
			H: 14 37 58.7				SOD	eP	23 34 47		
			43.6 N, 147.8 E, depth N						H: 23 23 10.5		
			Kurile Islands						16.2 N, 59.7 W, 13 km		
28	NUR	iP	16 56 59.4 D						Leeward Islands		
	KJN	iP	16 56 59.0	0.8	13.1						
	OUL	iP	16 57 08.1			29	NUR	eP	01 03 19	1.0	24.0
	SOD	iP	16 57 14.7					i	38.0		
			H: 16 49 59.7					eS	12 48		
			36.4 N, 71.2 E, 202 km								
			Afghanistan-USSR border								

cont.



December				December			
			T	A		T	A
	eScS	13 16			OUL	iP	09 32 20.6
	e	16 52			SOD	eP	09 32 05
	eSS	17 24			KEV	eP	09 31 48
KJN	iP	01 03 25.5	1.6	142.5	H:	09 22 11.0	
	i	04 04.7				54.3 N, 163.1 W, depth N	
OUL	iP	01 03 20.5				Unimak Island	
SOD	iP	01 03 21.9			29	NUR	eP 14 07 00
	i	34.3				OUL	eP 14 07 00
	eS	12 48			H:	13 55 26.0	
KEV	iP	01 03 24.0	0.8	21.6		16.2 N, 59.8 W, 19 km	
	i	50.8				Leeward Islands	
	eS	12 56			29	NUR	eP 14 07 10
	eSS	17 36				KJN	iP 14 07 15.0
H:	00 51 47.2					OUL	iP 14 07 10.5
	16.2 N, 59.7 W, 17 km					SOD	eP 14 07 10
	Leeward Islands					KEV	eP 14 07 12
29	OUL	eP 01 41 16			H:	13 55 38.0	
	H:	01 29 44.5				16.0 N, 59.7 W, depth N	
		16.3 N, 59.6 W, depth N				Leeward Islands	
		Leeward Islands			29	NUR	iP 14 07 20.6
29	OUL	eP 01 49 59				KJN	iP 14 07 27.2
	H:	01 38 28.7				i	08 06.6
		16.3 N, 59.6 W, depth N				OUL	iP 14 07 22.6
		Leeward Islands				SOD	iP 14 07 23.3
29	NUR	eP 02 18 07				KEV	iP 14 07 23.5
	KJN	eP 02 17 58			H:	13 55 49.9	
29	NUR	eP 02 20 43				16.1 N, 59.7 W, depth N	
	KJN	iP 02 20 47.6				Leeward Islands	
	OUL	eP 02 20 45			29	NUR	eP 14 25 02
	SOD	eP 02 20 40				KJN	iP 14 25 08.8
29	NUR	eP 03 26 21				OUL	iP 14 25 02.7
29	KJN	eP 04 08 09				SOD	eP 14 25 04
	H:	04 01 58.2				KEV	iP 14 25 04.0
		49.7 N, 78.2 E, 0 km (G)			H:	14 13 29.6	
		Eastern Kazakh SSR				16.2 N, 59.7 W, 20 km	
29	KJN	eP 08 33 16				Leeward Islands	
	OUL	iP 08 33 10.6			29	KJN	iP 18 16 08.4
	SOD	eP 08 33 12				H:	18 08 55.8
	H:	08 21 38.9				37.0 N, 71.8 E, 42 km	
		16.2 N, 59.6 W, depth N				Afghanistan-USSR border	
		Leeward Islands			30	KJN	iP 05 17 10.5
29	NUR	iP 09 32 52.3	1.0	16.0		OUL	iP 05 17 19.8
	KJN	eP 09 32 27				SOD	iP 05 17 39.3
		cont.					cont.



December				December			
		T	A			T	A
	KIW eP	05 18 01					
	H:	05 10 03.3					
		27.5 N, 33.9 E, 16 km					
		United Arab Republic					
30	OUL eP	08 23 22					
	H:	08 11 49.4					
		16.2 N, 59.6 W, depth N					
		Leeward Islands					
30	OUL eP	10 27 31					
	H:	10 15 59.4					
		16.2 N, 59.7 W, depth N					
		Leeward Islands					
30	KJN iP	11 30 34.4	1.1	27.0			
	OUL eP	11 30 37					
	SOD eP	11 30 35					
	H:	11 17 31.8					
		0.1 S, 124.1 E, 88 km					
		Molucca Sea					
30	NUR eP	16 29 59					
	SOD iP	16 29 01.9					
30	KJN iP	18 01 37.0	0.9	10.7			
	OUL eP	18 01 38					
31	NUR iP	00 57 10.3					
	KJN iP	00 56 45.4	0.9	7.1			
	OUL iP	00 56 39.2					
	H:	00 46 17.7					
		50.9 N, 179.5 W, 37 km					
		Andreanof Islands					
31	NUR eP	05 13 43					
	KJN eP	05 14 14					
	OUL iP	05 14 21.1					
	H:	05 08 08.1					
		34.3 N, 26.4 E, depth N					
		Crete					
31	NUR iP	05 42 34.9	1.1	61.9			
	KJN iP	05 43 06.4	0.9	16.1			
	OUL iP	05 43 15.0					
	SOD iP	05 43 36.3					
	KEV eP	05 43 53					
	i	59.3					
	H:	05 37 02.5					
		34.4 N, 26.1 E, 27 km					
		Crete					
31	NUR iP	05 49 53.6					
	KJN iP	05 49 30.8 U	0.7	18.5			
	OUL iP	05 49 28.9					
	SOD iP	05 49 16.8 U					
	KEV iP	05 49 04.5 U	0.7	15.5			
	H:	05 39 06.1					
		43.1 N, 147.5 E, 50 km (G)					
		Kurile Islands					
31	OUL eP	05 53 31					
	H:	05 41 57.5					
		16.1 N, 59.7 W, 17 km					
		Leeward Islands					
31	OUL eP	07 01 29					
	H:	06 49 56.8					
		16.1 N, 59.6 W, depth N					
		Leeward Islands					
31	NUR iP	13 22 20.4	0.9	48.7			
	i	25.1					
	eS	25 36					
	KJN iP	13 23 05.4	1.1	70.2			
	i	06.5					
	OUL iP	13 23 10.6					
	SOD iP	13 23 39.9					
	i	43.8					
	KEV eS	13 28 24					
	H:	13 18 32.8					
		44.9 N, 17.2 E, depth N					
		Yugoslavia					
31	NUR eP	19 13 18	1.1	40.5			
	i	24.6					
	i	44.0					
	ePP	16 00					
	ePPP	17 40					
	eS	22 37					
	eScS	23 23					
	eSS	27 32					
	eSSS	30 58					
	eLR	19 35.5					
	KJN iP	19 13 02.2					
	i	04.2	1.0	61.0			
	i	25.4					
	iPP	15 43.3					
	SOD iP	19 12 56.2					
	ePP	15 32					
	ePPP	17 16					
		cont.					

December

December

			T	A
KEV	iP	19 12 50.6	0.7	42.6
	e	15 12		
	ePPP	16 52		
	eS	21 44		
	ePS	22 10		
	eScS	23 05		
	eSS	26 28		
	eLQ	19 31.2		
	LZ		17	46.2u
	LN		18	14.4u
	LE		20	31.8u

H: 19 01 56.1
28.5 N, 129.1 E, 44 km
Ryukyu Islands

31	NUR	eP	20 53 37		
	KJN	iP	20 53 12.6	0.4	8.9
	SOD	iP	20 52 50.4		
	KEV	iP	20 52 32.7	0.6	15.0

H: 20 43 01.8
55.2 N, 160.5 W, depth N
Alaska Peninsula

31	NUR	eP	23 51 33		
		eSKS	24 01 22		

cont.

			T	A
	eS	02 08		
	eSP	03 40		
	eSPP	04 48		
	esPS	06 44		
	e	09 40		
KJN	iP	23 51 27.6	0.8	16.1
	epP	53 18		
SOD	iP	23 51 30.4 U		
KEV	eSKS	24 01 16		
	eSP	03 28		
	esPS	06 40		

H: 23 38 52.3
7.0 S, 117.8 E, 483 km
Bali Sea

January 4, 1971

Urmass Luosto
Aili Huovila