

JUNE-SEPT 65

DAVAO STATION
QUARTERLY SEISMOLOGICAL BULLETIN

MANILA OBSERVATORY
PHILIPPINES

DAVAO SEISMIC STATION

Davao, Philippines

Latitude	7° 8' 12'' N
Longitude	125° 36' 59'' E
Elevation	250 ft.

Instruments: World-wide standardized seismographs (USCGS)

S. P.: Benioffs (designated as N, E, Z)

T₀ - 1.0 sec.

T_g - 0.75 sec.

Magnification: usually 6,250

L. P.: Sprengnethers (designated as N', E', Z')

T₀ - 15 secs.

T_g - 100 secs.

Magnification: usually 3,000

Day, June, 1965

Date	Phase	Comp.	Time (GST)	Distance, etc.
01 JUN				
(1)	iP iS LR	NEZ NEZ N'E'Z'	02 35 36.9 36 32.1 37 18.0	D [≠] 550 km
(2)	iP e(S) LQ LR	NEZ N'E'Z' N'E' N'E'Z'	04 39 34.2 44 30.0 47 32.0 50 22.0	D [*] 3600 km 20.2 N 94.9 E (CGS)
(3)	eP e(S) LR	NEZ N'E'Z' N'E'Z'	08 00 50.0 07 29.0 11 00.0	D [*] 5000 km 28.5 N 83.2 E
(4)	iP	NEZ	09 13 44.8	
(5)	iP iS LQ	NEZ NEZ N'E'	10 10 34.8 11 34.5 12 17.0	D [*] 560 km
(6)	iP	NEZ	13 09 47.0	
(6 a)	e(S) LQ LR	N'E'Z' N'E' N'E'Z'	16 24.0 17 57.0 19 28.0	
(7)	eP	NEZ	15 43 09.3	
(8)	eX	N'E'Z'	15 50 46.0	
(9)	iP	NEZ	17 48 57.0	
(10)	i(P) iS	NEZ NEZ	17 50 11.5 50 44.0	
(11)	e(P) LQ LR	N'E'Z' N'E' N'E'Z'	18 35 30.0 53 21.0 19 01 06.0	
(12)	iP i(S)	NEZ NEZ	20 21 42.0 21 49.0	
(13)	eX	N'E'Z'	21 11 14.0	
(14)	iP	NEZ	21 41 36.5	
(15)	e(P)	NEZ	21 49 34.0	
(16)	iP iS	NEZ NEZ	22 21 57.6 22 48.0	D [*] 480 km
(17)	e(P)	NEZ	22 45 54.5	

Date	Phase	Code	Time (GMT)	Distance, etc.
02 JUN				
(1)	eP	NEZ	02 31 42.0	
(2)	eP	NEZ	04 05 30.5	
(3)	LR	N'Z'	04 35 50.0	
(4)	eP e(S)	NEZ N'Z'	05 30 05.0 33 32.0	
(5)	iP iS	NEZ NEZ	06 04 40.5 05 19.4	D * = 360 km
(6)	iP iS	NEZ NEZ	06 21 14.0 21 36.3	D * = 200 km
(7)	iP iS	NEZ NEZ	10 01 50.0 02 03.4	D * = 110 km
(8)	iP e(S) LR	NEZ N'Z' N'Z'	14 55 05.0 57 20.0 15 03 00.0	
(9)	eP	NEZ	15 02 32.4	
(10)	iP	NEZ	15 07 40.7	
(11)	eP iS	NEZ NEZ	18 05 13.8 05 39.0	D * = 230 km
(12)	eP	NEZ	18 30 14.0	
(13)	iP eP	E NZ	18 37 55.4 18 37 55.4	
(14)	eX LR	N'Z' N'Z'	20 31 47.0 33 21.0	
(15)	iP	NEZ	22 24 43.7	
(16)	iP eP iS	Z NE NEZ	22 54 07.2 54 07.2 54 14.9	D * = 60 km
(17)	iP iS	NEZ NEZ	22 56 07.4 56 12.0	D * = 25 km
(18)	eP	NEZ	23 36 40.3	
03 JUN				
(1)	eX LR	Z' N'Z'	00 00 18.0 01 10.0	

Date	Phase	Comp.	Time (GCT)			Distance, etc.
03 JUN						
(2)	eP	N'E'Z'	04	52	10.0	
	LQ	N'E'		59	57.0	
	LR	N'E'Z'	05	03	21.0	
(3)	iP	Z	05	24	16.9	D \approx 630 km
	iS	N'E'Z'		25	22.0	
(4)	e(P)	N'E'Z'	08	02	31.0	
	LQ	N'E'		09	05.0	
	LR	N'E'Z'		12	30.0	
(5)	iP	Z	10	16	45.0	D \approx 200 km
	iS	E'		17	07.0	
	eS	N'Z'		17	07.0	
(6)	iP	Z	11	17	06.2	D \approx 70 km
	iS	Z		17	14.9	
(7)	LR	N'E'Z'	12	14	09.0	
(8)	eX	E'	17	14	18.0	
(9)	iP	Z	18	21	41.3	D \approx 210 km
	iS	Z		22	04.5	
(10)	i(P)	Z	20	04	44.7	
	eS	N'E'Z'		05	14.0	
04 JUN						
(1)	eX	N'E'	00	10	57.0	
(2)	eP	Z'	13	36	15.0	D \approx 2700 km 18.0 N 146.5 E (CGS)
	eS	Z'		40	48.4	
	LQ	N'		41	18.0	
	LR	E'Z'		42	23.0	
(3)	eP	Z'	15	12	54.0	D \approx 6900 km 51.1 N 178.5 E (CGS)
	esS	N'		21	30.8	
	esSS	N'		25	19.5	
	LR	N'E'Z'		27	57.0	
(4)	iP	Z	17	58	53.2	
05 JUN						
(1)	iP	Z	01	53	41.5	
	i(S)	Z		54	02.0	
	iX	Z		54	11.5	
(2)	eP	Z'	03	51	11.0	D \approx 1300 km 1.6 S 126.7 E (CGS)
	eS	Z'		53	53.0	
	LR	N'E'Z'		54	41.0	

DATE	CLASS	Comp.	Time (GCT)	Distance, etc.
05 JUN				
(3)	LQ	N'	06 56 25.0	
	LR	N'E'Z'	57 18.0	
(4)	eX	Z'	13 04 47.0	
(5)	eX	Z'	13 24 07.0	
(6)	i(P)	Z	13 38 16.2	
	eS	Z'	40 48.0	
	LR	N'E'Z'	41 38.0	
(7)	ePoP	Z'	14 13 52.0	
	eS	N'	16 48.0	
	LQ	E'	18 03.0	
	LR	N'Z'	19 30.0	
06 JUN				
(1)	LR	Z'	11 30 44.0	
(2)	iP	Z	11 37 20.5	D \approx 620 km
	iS	Z	38 24.5	
(3)	iPn	Z	12 14 29.0	
	i(P*)	Z	14 37.5	
	i(Pg)	Z	14 47.0	
(4)	LR	N'Z'	14 31 28.0	
(5)	eX	N'Z'	15 42 16.9	
(6)	eX	Z'	16 07 36.9	
	LR	Z'	08 54.9	
07 JUN				
(1)	LR	N'E'Z'	06 56 29.9	
(2)	LR	N'E'Z'	13 44 31.9	
(3)	iP	Z	13 59 49.9	D \approx 350 km
	iS	Z	14 00 27.4	
(4)	iP	Z	20 15 12.5	
	iX	Z	16 07.8	
08 JUN				
(1)	iP	NEZ	04 07 18.0	D \approx 185. km
	iS	NEZ	07 38.6	
(2)	i P	NE	05 11 17.5	D \approx 140. km
	i S	NE	11 33.8	

		Comp.	Time (GCT)		Distance, etc.
08 JUN					
(3)	1(P) 1X	E E	07 12	46.5 48.5	
(4)	1P	EZ	07 29	57.0	
(5)	1P 1S	EZ EZ	07 46 46	12.0 15.7	
(6)	e(PoP) ePP ePPP e(SoS) e(SS) eSSS LQ LR	N'E'Z' N'E'Z' N'E'Z' N'E'Z' N'E'Z' N'E'Z' N'E' N'E'Z'	12 19 20 21 28 32 34 35 38	11.0 05.0 40.0 18.0 08.0 09.0 32.0 06.0	D * = 7800 km
(7)	1P 1S	NEZ NEZ	12 59 13 00	43.8 04.9	D * = 190 km
(8)	LR	N'E'Z'	14 34	17.0	
(9)	eP 1S	NEZ NEZ	20 05 06	40.5 19.0	D * = 370 km
(10)	eX	N'E'	20 07	06.0	
(11)	eP 1S	NEZ NEZ	20 12 13	30.0 06.2	D * = 340 km
09 JUN					
(1)	1 P 1 S	NEZ NEZ	08 19 20	57.0 07.5	D * = 90 km
(2)	e P 1S	NE NE	11 19 19	40.8 53.0	D * = 100 km
(3)	eP 1S	NEZ NEZ	18 38 39	59.5 17.2	D * = 160 km

Date	Phase	Comp.	Time (GCT)			Distance, etc.	
09 JUN	(4)	Z	19	08	35.5	D \pm 1700 km 8.6 S 127.3 E (CGS)	
		N'E'Z'		09	06.0		
		N'E'Z'		10	05.0		
		N'E'		13	57.0		
		N'E'Z'		14	55.0		
		N'		16	07.0		
		E'Z'		17	27.0		
	(5)	NEZ	20	44	04.9	D \pm 310 km	
		N'E'		44	30.0		
		N'E'Z'		44	38.0		
	(6)	e P	NEZ	12	52	08.5	D \pm 80 km
		i S	NE		52	18.5	
	10 JUN	(1)	Z	15	18	08.6	D \pm 600 km 1.9 N 126.6 E (CGS)
			NE		18	08.6	
(2)		N'E'		19	04.0	D \pm 110 km	
		Z	17	16	01.8		
		NE		16	01.8		
(3)		NEZ		16	14.5	D \pm 100 km	
		eP	NEZ	18	11		08.3
		iS	NEZ		11		20.0
11 JUN		(1)	N'E'Z'	00	41	48.0	D \pm 4700 km 44.7 N 148.7 E
			LR				
	(2)	NEZ	03	41	37.5		
		N'E'Z'		48	10.0		
		N'		50	15.0		
		N'Z'		51	25.0		
		N'E'Z'	04	43	40.0		
	(3)	N'E'Z'	05	00	40.0	D \pm 110 km	
		NEZ	09	44	50.0		
	(4)	iS	NEZ		45	03.0	
		eP	NEZ	11	47	56.5	
	(5)	Z		14	55	41.7	D \pm 210 km
		NE			55	41.7	
NEZ				56	04.9		

Date	Phase	Comp.	Time (GMT)			Distance, etc.
11 JUN						
(6)	i(P)	NEZ	25	36	14.4	
12	(1)	Z	01	03	09.9	
	eP	NE		03	09.9	
	e(S)	N'E'Z'		04	38.0	
(2)	LQ	N'	05	47	00.0	
	LR	N'Z'		53	13.0	
(3)	iP	Z	08	42	03.4	D \approx 280 km
	eP	NE		42	03.4	
	iS	NEZ		42	33.5	
(4)	eP	NEZ	09	43	09.4	D \approx 380 km
	iS	NEZ		43	49.5	
(5)	eP	NEZ	10	49	18.4	
(6)	eP	NEZ	11	40	01.9	D \approx 540 km
	iS	NEZ		40	57.5	
(7)	eP	NEZ	18	00	05.7	D \approx 2700 km
	iS	N'E'Z'		04	38.0	6.3 S
	LQ	N'E'		05	25.0	105.8 E
(8)	e P	N'E'Z'	19	00	13.0	D \approx 2050 km
	iS	E'		03	20.0	
	eS	N'Z'		03	20.0	
	LQ	N'		03	35.0	
(9)	eX	N'E'	22	31	24.0	
	e(S)	N'E'Z'		34	37.0	
	LQ	N'E'		39	29.0	
	LR	N'E'Z'		41	56.0	
13 JUN						
(1)	e(P)	NEZ	04	29	05.0	
(2)	i P	Z	07	13	31.5	
	e P	NE		13	31.5	41.9 N
	eS	NEZ		19	21.9	143.4 E
	LQ	N'		22	53.0	D \approx 4250 km
(3)	e(P)	NEZ	11	04	38.9	
(4)	eP	NEZ	13	14	44.9	D \approx 380 km
	iS	NEZ		15	24.5	

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Date	Phase	Comp.	Time (GCT)	Distance, etc.
13 JUN				
(5)	e(P)	NEZ	13 40 29.3	
(6)	LQ	E'	17 36 07.0	
	LR	N'E'Z'	37 32.0	
(7)	e(P)	NEZ	18 00 15.5	
(8)	LQ	N'E'	20 46 48.0	
	LR	N'E'Z'	52 09.0	
14 JUN				
(1)	LR	N'E'Z'	01 29 00.0	
(2)	eP	NEZ	01 39 34.4	D =* 170 km
	iS	NEZ	39 53.4	
(3)	iP	NZ	01 57 06.0	
	eP	E	57 06.0	
(4)	iP	NZ	05 45 20.2	D =* 220 km
	eP	E	45 20.2	
	iS	NE	45 44.3	
(5)	LQ	N'	06 17 00.0	
	LR	N'Z'	17 56.0	
(6)	eX	N'E'Z'	07 53 56.0	
	LQ	E'	08 06 40.0	
	LR	N'E'Z'	07 52.0	
(7)	iP	NEZ	09 52 08.2	D =* 60 km
	iS	NE	52 16.4	
(8)	LR	N'E'Z'	10 23 42.0	
(9)	eP	NEZ	12 18 18.4	
	iS	NE	18 36.9	
	eS	Z	18 36.9	
15 JUN				
(1)	eX	Z'	03 38 10.0	
(2)	eX	Z'	05 04 50.0	
(3)	eX	Z'	05 09 14.0	
	(LR)	Z'	16 17.0	

Date	Phase	Comp.	Time (GOT)			Distance, etc.
15 JUN						
(4)	e(P)	NEZ	07	15	40.5	
(5)	eX	N'E'Z'	08	18	26.0	
	eLR	N'E'Z'	08	21	10.0	
(6)	eP	NEZ	09	30	15.9	D* = 180 km
	eS	NEZ	09	30	36.0	
(7)	eP	NEZ	17	54	52.5	D* = 20 km
	iS	NEZ	17	54	57.0	
(8)	iX	NEZ	20	56	19.4	
(9)	eP	N'E'Z'	23	20	03.0	D* = 6250 km
	e(PP)	N'E'Z'	23	22	40.0	20.9 S
	ePPP	N'E'Z'	23	23	13.0	173.7 E
	eS	N'E'Z'	23	27	44.0	
	eScS	E'Z'	23	29	40.0	
	LQ	N'E'	23	33	28.0	
	(LR)	N'E'Z'	23	36	35.0	
16 JUN						
(1)	LR	N'E'Z'	04	52	00.0	
(2)	iP	Z	05	22	09.6	D* = 240km
	eP	NE	05	22	09.6	
	iS	EZ	05	22	35.5	
(3)	eP	NEZ	05	39	41.0	D* = 160 km
	iS	NEZ	05	39	58.9	
(4)	eP	N'E'Z'	10	16	26.0	
	e(S)	N'E'Z'	10	18	25.5	
17 JUN						
(1)	e(P)	NEZ	03	09	26.7	
	e(S)	N'E'Z'	03	11	04.0	
(2)	e P	NEZ	06	27	48.0	D* = 150 km.
	iS	NE	06	28	04.5	
(3)	iS	NEZ	09	22	08.0	
(4)	i(P)	Z	09	58	12.0	

Date	Phase	Comp.	Time (GMT)	Distance, etc.	
17 JUN	(4)	e(P)	NE	09 58 12.0	D* = 1950 km 23.9 N 123.3 E
		eS	N'E'	09 59 10.0	
		LR	E'Z'	09 59 21.0	
	(5)	e P	NEZ	10 47 40.5	
		eS	N'Z'	10 50 49.0	
		LR	N'E'Z'	10 52 05.0	
	(6)	LR	N'Z'	13 20 10.0	
	(7)	eP	EZ	19 34 14.5	
		LQ	N'E'	19 37 08.0	
	(8)	e(S _c SS _c S)	E'Z'	20 32 55.0	
		LQ	N'E'	20 34 16.0	
		LR	N'E'Z'	20 38 15.0	
18 JUN	(1)	i(P)	NEZ	01 16 05.0	
	(2)	LR	E'Z'	08 35 50.0	
	(3)	i(P)	NEZ	10 25 49.5	
	(4)	e(P)	NEZ	10 30 32.0	
	(5)	eX	N'E'Z'	23 05 07.0	
19 JUN	(1)	eP	NEZ	17 01 40.9	D* = 80 km
		iS	NE	17 01 50.6	
		eS	Z	17 01 50.6	
	(2)	eP	NEZ	17 43 55.4	D* = 500 km
		iS	NEZ	17 44 47.4	
	(3)	eS	N'E'Z'	19 52 15.0	
		LQ	E'	19 52 42.0	
		LR	N'E'Z'	19 53 25.0	
	20 JUN	(1)	iP	NEZ	07 54 33.0
i S			NEZ	07 44.5	

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Date	Phase	Comp.	Time (GCT)	Distance, etc.	
20 JUN					
(2)	e(P)	N'E'Z'	12 43 14.0	D [*] = 560 km	
	eS	N'E'Z'	12 46 06.0		
(3)	eP	NEZ	14 55 40.6		
	iS	NEZ	14 56 39.1		
(4)	eP	NEZ	16 51 35.3		D [*] = 360 km
	iS	NEZ	16 52 13.1		
(5)	eP	Z	18 03 24.5		D [*] = 310 km
	eS	NEZ	18 03 57.1		
(6)	e P	EZ	20 42 36.6		D [*] = 310 km
	iS	NEZ	20 43 09.1		
(7)	e(P)	N'E'	23 38 15.0		
	eS	N'E'	23 29 40.0		
	LQ	N'E'	23 30 05.0		
21 JUN					
(1)	eX	N'E'	02 21 27.0	-	
(2)	e(P)	NEZ	02 33 50.0		
	eS	E'Z'	02 34 50.0		
	LQ	N'E'	02 35 12.0		
(3)	e(P)	NZ	02 41 54.0		
	iS	NE	02 42 26.5		
(4)	i(S)	NEZ	05 07 27.5		
(5)	iP	EZ	15 38 32.7	D [*] = 340 km	
	iS	NE	15 39 09.1		
(6)	iP	EZ	20 46 35.2	D [*] = 170 km	
	iS	NEZ	20 46 54.6		
(7)	e(P)	NEZ	22 05 49.6		
	eS	N'E'Z'	22 06 20.0		

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Date	Phase	Comp.	Time (GST)	Distance, etc.	
21 JUN (8)	iP	Z	23 43 16.2	D * = 220 km	
	iS	N'E'Z'	23 43 40.0		
22 JUN	(1)	eX	NEZ	01 50 49.0	
	(2)	iP	Z	04 21 30.9	D * = 750 km 0.6 N 125.4 E (CGS)
		iS	N'E'Z'	04 22 50.0	
		LR	N'E'Z'	04 23 40.0	
	(3)	eP	NEZ	05 48 05.9	D * = 160 km
		iS	NE	05 48 23.5	
	(4)	eSSS	N'E'	13 33 17.0	
		eScSScS	N'E'Z'	13 35 51.0	
		LQ	N'E'	13 36 27.0	
		LR	N'E'Z'	13 41 00.0	
	(5)	iP	NEZ	18 55 48.7	D * = 160 km
		iS	NEZ	18 56 06.5	
	(6)	iS	NEZ	19 59 35.6	
(7)	eP	N'E'Z'	21 17 22.0	D * = 1900 km 2.3 S 138.5 E	
	eS	N'E'	21 20 51.0		
	LQ	E'	21 21 40.0		
	LR	N'E'Z'	21 23 47.0		
(8)	iP	EZ	23 48 40.7	D * = 320 km 7.1 N 123.5 E (CGS)	
	eP	N	23 48 40.7		
23 JUN	(1)	eP	NEZ	02 44 09.0	D * = 190 km
		iS	NEZ	02 44 30.3	
	(2)	iP	Z	06 02 01.3	D * = 150 km
		eP	NE	06 02 01.3	
		eS	NEZ	06 02 18.5	
	(3)	iP	EZ	11 21 22.6	D * = 8900 km 56.6 N 152.9 W (CGS)
		eP	N	11 21 22.6	
		eS	N'E'Z'	11 31 25.0	
		ePPS	N'Z'	11 32 41.0	
		eSS	N'E'Z'	11 36 32.0	
		eSSS	N'E'	11 40 26.0	
		LQ	N'E'	11 42 30.0	
LR		N'E'Z'	11 45 30.0		

Date	Phase	Comp.	Time (GCT)	Distance (km)
23 JUN				
(4)	e(P)	NEZ	11 28 07.0	
(5)	iP	EZ	12 02 11.4	520
	eP	N	12 02 11.4	
	iS	NEZ	12 03 05.1	
(6)	e(P)	NEZ	12 17 49.3	
	iS	NEZ	12 18 39.0	
(7)	e(P)	NEZ	13 27 50.1	
	eS	NEZ	13 28 05.6	
(8)	iS	NEZ	13 39 02.5	
(9)	iS	NEZ	15 19 43.1	
(10)	eP	NEZ	16 12 31.1	1650
	eS	N'E'Z'	16 16 07.0	4.1 S
	LR	N'E'Z'	16 17 36.0	135.3 E (CGS)
(11)	e(P)	NEZ	16 29 49.6	
(12)	e(P)	NEZ	16 38 00.0	
	iS	NEZ	16 38 26.0	
(13)	e(P)	EZ	16 48 33.1	
	iS	NEZ	16 49 41.6	
24 JUN				
(1)	eX	N'E'Z'	05 01 29.0	
(2)	eP	NEZ	07 34 13.6	180
	iS	NEZ	07 34 33.1	
(3)	iP	EZ	07 45 27.6	90
	eP	N	07 45 27.6	7.0 N
				126.2 E (CGS)
(4)	iP	Z	08 42 50.1	
	eP	NE	08 42 50.1	
	iS	NEZ	08 42 58.6	70
(5)	eP	NEZ	13 51 26.6	
	iS	NEZ	13 52 10.1	420
	LR	N'E'Z'	13 53 16.0	
(6)	LR	N'E'Z'	14 56 18.0	

Date	Phase	Comp.	Time (GCT)			Distance (km)
24 JUN						
(7)	e P	NE	23	12	05.2	1600
	eS	N'E'Z'	23	15	08.0	20.1 N
	LR	N'Z'	23	16	22.0	120.8 E (CGS)
25 JUN						
(1)	iP	NE	01	30	29.0	
(2)	iP	NEZZ'	06	29	12.0	230
	iS	NE	06	29	37.2	
(3)	iP	NE	07	10	50.0	
(4)	iP	NE	08	27	24.4	580
	iS	Z'NE	08	28	24.0	
(5)	iP	NE	08	35	59.2	
(6)	iP	NE	08	57	42.5	
(7)	iP	NEZ	12	44	44.3	440
	eX	N	12	45	16.0	
	eS	Z'	12	45	30.5	
(8)	iP	NEZN'Z'	12	51	10.0	300
	iS	Z'	12	51	58.0	9.6 N
						126.3 E (CGS)
(9)	i(P)	NE	13	42	59.0	
(10)	iP	NEZZ'	14	15	30.5	300
	eS	Z'	14	16	02.0	
(11)	eP	E	15	18	32.8	
(12)	iS	NE	15	56	18.5	
(13)	eP	Z	19	37	30.2	
(14)	iP	NEZ	20	05	22.5	80
	iS	NE	20	05	32.0	
(15)	iP	NEZ	20	12	35.4	20
	iS	WEZ	20	12	40.5	
26 JUN						
(1)	iP	NE	03	02	29.0	
(2)	i(P)	E	03	06	04.7	
(3)	iP	NE	11	13	14.0	
(4)	iP	NE	12	47	52.1	
(5)	iP	N	12	57	26.5	

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Date	Phase	Comp.	Time (GCT)	Distance (km)
26 JUN				
(6)	iP eS	EZ Z'	16 30 25.7 16 31 26.0	580
(7)	e(S) LR	E'Z' Z'	16 47 12.0 16 48 38.0	
(8)	iP i(S) eX	NZ NE E'	17 07 32.8 17 07 58.5 17 08 07.0	
(9)	iP	Z	18 52 31.0	
(10)	i(S)	NE	19 03 11.0	
(11)	eP eS LQ LR	Z' Z' N'E' Z'	20 34 51.9 20 37 43.0 20 37 53.0 20 38 39.0	1700
(12)	iP iS	NEZN'E'Z' E'	21 37 58.0 21 38 09.8	100
(13)	iP	NE	21 46 35.4	
(14)	iP	N	21 49 55.0	
27 JUN				
(1)	(PcP) S SS LR	Z' N'Z' Z' Z'	01 05 50.0 01 11 55.0 01 15 27.0 01 19 38.0	
(2)	iP	E	01 45 37.7	
(3)	iP	NE	01 57 50.4	
(4)	iP eS	NEZ N'	03 55 25.7 03 56 15.0	500 2.6 N 127.8 E (CGS)
(5)	iP iS	E NE	04 46 19.0 04 46 24.0	20
(6)	iP i(S)	NEZZ' E'	06 04 49.0 06 05 10.0	
(7)	eX	E'	06 30 52.5	
(8)	iP	NE	06 30 56.0	
(9)	iP	NE	07 21 13.5	
(10)	iP	E	08 20 28.5	

Date	Phase	Comp.	Time (GCT)	Distance (km)		
27 JUN	(11)	i(P) iS	E ne	10 12 30.0 10 12 39.0		
	(12)	iP iS	E NEV'	10 38 34.5 10 39 48.0	120	
	(13)	iP eS LR	E E' Z'	10 47 07.7 10 48 35.0 10 48 47.0	850	
	(14)	eP eS (LR)	Z' E' Z'E'	11 02 18.0 11 04 42.0 11 05 04.0	1450	
	(15)	eP iS (LR)	Z' E' Z'	11 40 09.0 11 43 24.0 11 44 47.0	1900 23.8 N 121.5 E (CGS)	
	(16)	iX	E	16 27 04.9		
	(17)	iP	E	16 46 35.1		
	(18)	iP iS	EZZ' Z'	17 35 58.0 17 36 26.0	300 4.9 N 127.5 E (CGS)	
	(19)	eX	N'E'Z'	19 53 26.0		
	(20)	iP iS	Z NEZ'	22 01 26.1 22 01 37.1	90	
	28 JUN	(1)	iP i(S)	NEZN'E'Z' Z'	01 25 21.0 01 25 36.0	
		(2)	iP iS	NZ' NE	01 38 13.0 01 38 27.0	120
		(3)	iP eS	NE N'E	02 14 29.4 02 14 43.0	120
		(4)	iP	NE	02 17 32.7	
		(5)	iP	E	02 32 37.8	
		(6)	eX	E	02 48 26.7	
		(7)	iP	NE	03 34 14.5	
		(8)	iP iS LQ LR	EZ' N'Z' N'E' N'E'Z'	03 39 49.5 03 44 53.0 03 46 38.0 03 47 51.0	3400 5.1 S 153.0 E (CGS)

Date	Phase	Comp.	Time (GCT)	Distance (km)
28 JUN				
(9)	eP	NE	03 50 25.2	
(10)	iP	NE	05 03 19.3	
(11)	iP	NE	06 18 46.8	
(12)	iP	NE	10 17 36.5	
	iS	NE	10 17 48.5	100
(13)	iP	NE	11 27 53.0	
	eS	N'	11 28 06.0	110
(14)	iP	N	14 51 51.5	
(15)	eP	Z'	15 48 50.5	
	eS	E'	15 52 04.0	1900
	(ScP)	Z'	16 55 29.6	23.9 N 121.6 E (CGS)
(16)	iP	E	18 38 40.0	
	iS	NE	18 38 44.7	20
(17)	iS	N	19 46 14.2	
(18)	eP	N'	19 57 06.3	
	iP	N	19 57 06.3	
(19)	iP	NE	22 00 55.5	
(20)	iP	E	23 06 44.8	
	eS	N'E'	23 06 57.0	100
(21)	iP	EZ	24 09 29.0	
	iS	ZZ'	24 09 50.0	190
29 JUN				
(1)	eP	Z'	02 12 16.2	
	eS	Z'	02 20 43.2	7000
	ScS	N'	02 22 17.2	
	LR	Z'	02 29 32.2	
(2)	iP	N,	01 56 30.7	
(3)	iP	NE	04 00 57.8	
(4)	iP	NE	06 17 43.7	
(5)	iP	E	08 32 54.8	
(6)	iP	N	09 16 49.7	
(7)	iP	E	10 11 59.7	

Date	Phase	Comp.	Time (GCT)	Distance (km)
29 JUN				
(8)	iP	NE	13 56 52.6	
(9)	eP	NE	15 13 22.6	
(10)	iP	E	15 31 42.1	610
	iS	NE	15 32 45.3	
(11)	iP	E	15 59 55.1	
(12)	iP	Z	16 02 00.1	200
	eS	E'	16 02 22.1	
(13)	iS	NE	16 49 18.1	
(14)	iP	NE	18 11 57.9	
(15)	iP	NE	20 29 02.6	
(16)	i(S)	N	22 43 43.1	
(17)	eP	E	24 03 54.1	
	e(S)	E'	24 04 19.6	
		N'Z'	24 04 29.1	
30 JUN				
(1)	iP	E	16 19 49.5	
(2)	iP	E	19 43 04.0	
	eP	N'	19 43 04.0	690
	eS	N'	19 44 15.0	
(3)	eP	E	19 58 11.8	
	eS	N'E'	19 59 17.5	
(4)	iP	E	20 17 57.5	
(5)	iP	NEZ	21 08 08.0	190
	eS	N'E'	21 08 29.0	
(6)	iP	NZ	21 17 40.5	180
	iS	E'	21 18 00.0	
(7)	iX	NE	22 26 58.0	
1 JUL				
(1)	iP	NE	06 13 10.4	
(2)	iP	E	06 19 44.0	490
	eP	N'	06 19 44.0	
	eS	E'Z'	06 20 34.5	
	LR	Z'	06 21 17.0	

Date	Phase	Comp.	Time (GCT)			Distance (km)
1 JUL						
(3)	iP	E	06	50	19.7	
	iS	NE	06	50	22.9	
(4)	iP	E	07	22	00.0	2700 18.2 N 146.3 E (CGS)
	eS	N'E'	07	26	22.0	
	LR	Z'	07	27	30.0	
(5)	iP	NEZZ'	09	17	03.4	200
	iS	EN'E'	09	17	25.0	
(6)	iP	NZ	09	20	56.0	360
	eS	Z'	09	21	34.0	
(7)	iP	NE	17	33	33.6	
(8)	eP	Z'	23	25	33.6	9950
	eS	E'	23	36	19.3	
(9)	iP	NEZN'E'Z'	23	41	57.1	
	LR	Z'	24	03	18.6	
2 JUL						
(1)	iP	NEZ	00	25	50.6	220
	iS	E	00	26	14.9	
(2)	iS	NE	02	40	07.6	
(3)	eX	N'	05	26	33.1	
	eX	N'	05	30	45.1	
(4)	iP	NEZZ'	06	51	54.4	210
	iS	EN'	06	52	17.1	
(5)	iP	NE	08	36	13.8	
(6)	eP	Z'E'	09	45	42.1	
	eX	N'Z'	09	47	24.1	
	eX	N'	09	47	48.1	
(7)	eX	E'	13	31	16.1	
(8)	e(P)	N'	15	01	14.0	
	eX	N'	15	04	25.0	
	LQ	N'	15	06	52.0	
(9)	iP	Z	15	36	19.8	
	iS	E	15	36	20.5	
(10)	iP	EZ	15	37	57.4	190
	iS	NE	15	38	18.1	
(11)	iP	NE	18	03	32.1	

Date	Phase	Comp.	Time (GCT)	Distance (km)
2 JUL				
(12)	eP	E	20 21 15.0	
(13)	eX	E'	20 38 09.0	
(14)	iP	NE	20 54 28.0	
(15)	iP	NEZN'E'Z'	21 09 54.1	
	eS	NN'Z'	21 19 00.1	7900 53.1 N, 167.7 W (CGS)
3 JUL				
(1)	iP	NEZ	06 57 41.2	
	iX	N	06 58 09.0	
	iX	E	06 58 19.8	
(2)	iP	NEZ	11 06 15.0	12000
	iS	E'	11 19 48.3	
	ePS	N'	11 21 29.3	
	LQ	N'	11 38 35.1	
	LR	Z'	11 42 10.1	
(3)	eP	NEZ	12 26 21.1	
(4)	eX	Z'	14 17 49.1	
(5)	iP	NEZ	15 35 41.3	
(6)	iP	NEZ	15 41 59.3	
(7)	iP	NE	16 21 39.0	
(8)	eX	E'	21 07 17.1	
4 JUL				
(1)	iP	NEZ	08 05 17.9	
(2)	iP	NEZ	09 28 20.6	
(3)	iP	NEZ	10 42 02.5	
(4)	iP	NEZ	11 25 45.5	
(5)	iP	NEZ	11 43 03.4	
(6)	iP	NEZ	13 42 08.3	
(7)	iP	NEZ	14 38 21.0	
(8)	iP	NEZ	14 49 05.5	
	iS	NEZ	14 49 29.0	220
(9)	iP	NEZ	16 07 11.9	
	iS	NEZ	16 07 35.4	220

Date	Phase	Comp.	Time (GMT)		Distance (km)
4 JUL					
(10)	iP	NEZ	18	34	15.2
(11)	eP	NEZ	19	37	24.2
(12)	eX	NEZ	23	22	44.3
	LR	Z'	23	23	40.0
(13)	iP	Z	23	28	37.0
5 JUL					
(1)	iP	NEZ	01	40	05.0
	iX	N	01	40	29.0
(2)	ePKP	E'Z'	05	52	20.8
	eSS	E'	09	08	26.6
	(G)	E'	09	21	41.6
	LQ	E'	09	22	50.0
	LR	Z'	09	25	00.0
(3)	iP	NEZ	09	58	04.9
	iS	N'	09	58	27.0
(4)	iP	NEZ	12	48	07.2
(5)	iP	NEZ	12	50	54.0
(6)	iP	NEZ	16	22	54.1
	iX	E	16	23	08.6
	iX	N	16	23	10.0
(7)	iP	NEZ	18	28	31.8
6 JUL					
(1)	iP	NEZ	00	05	49.1
(2)	iP	Z	01	02	19.0
	iS	N	01	02	27.2
(3)	eP	Z'	03	13	50.4
(4)	iP	Z	03	50	51.6
	iS	N	03	51	17.9
(5)	iP	Z	04	09	23.6
(6)	iP	Z	04	34	46.0
(7)	iP	Z	04	45	19.5
(8)	iP	Z	04	51	27.0
(9)	iP	Z	04	56	00.0

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Date	Phase	Comp.	Time (GCT)	Distance (km)
6 JUL				
(10)	eP	Z	05 01 32.6	
(11)	iP	Z	05 07 06.9	
(12)	iP	Z	05 15 35.3	
(13)	iP	Z	08 10 03.4	
	iS	Z	08 10 38.2	330
(14)	iP	Z	08 17 29.5	
(15)	iP	Z	13 05 53.4	
	iS	E	13 07 29.5	950
(16)	iP	Z	16 23 58.8	
	iS	Z	16 24 09.2	80
(17)	iP	Z'	18 42 29.0	
	iS	Z'	18 47 01.2	3000
(18)	iP	N	18 52 54.5	
(19)	iP	Z	19 14 09.6	
(20)	iP	E	22 46 53.6	
	iS	E	22 47 16.2	210
7 JUL				
(1)	iP	N	00 37 43.4	
(2)	iP	E	00 54 45.6	
(3)	iP	ZZ'	07 43 36.5	
	iS	N	07 44 01.5	230
(4)	iP	E	08 54 34.2	
(5)	iP	ZZ'	09 10 43.9	
	iS	N	09 11 09.7	240
(6)	iP	E	10 24 21.0	
	iS	E	10 24 25.0	
	e(LR)	Z'	10 25 33.0	
(7)	eP	Z'	12 18 31.0	
	eS	N'	12 26 16.0	
	LR	N'Z'	12 36 04.2	
				6550 49.7 E, 117.1 E (CGS)

Date	Phase	Comp.	Time (GCT)			Distance (km)
7 JUL						
(8)	eP	Z'	15	48	02.0	
	eS	Z'	15	56	37.6	
	LQ	N'	16	05	00.0	7250
	LR	Z'	16	07	57.6	15.0 S, 173.0 W (CGS)
(9)	iP	Z	17	16	54.8	
(10)	iP	Z	18	52	48.4	
	LR	Z'	18	53	32.0	
(11)	iP	Z	21	33	10.5	
	iS	E	21	33	21.9	90
(12)	iP	N'Z'	21	45	15.0	
	eS	N'E'	21	51	20.0	4450
(13)	iP	E	22	14	36.2	
	iS	Z	22	15	27.8	500
(14)	eX	N'Z'	22	15	21.0	
(15)	iP	Z	23	05	18.0	
	eS	N'	23	09	46.0	2700
	LQ	N'	23	10	16.0	6.9 S, 105.6 E (CGS)
	LR	Z'	23	12	43.5	
8 JUL						
(1)	iP	Z	02	56	52.6	
	iS	E	02	57	18.2	240
(2)	iP	E	06	32	48.9	
	iS	E	06	33	12.0	210
(3)	eX	N'E'	08	15	18.0	
	eX	N'E'	08	30	30.2	
	LR	Z'	08	37	41.2	
(4)	iP	N	11	25	34.4	
(5)	iP	E	11	58	37.0	
	iS	E	11	59	00.0	210
	(LR)	Z'	11	59	00.0	
(6)	e P	Z'	13	14	07.5	
	eS	E'	13	22	22.4	6600
	LR	Z'	13	32	37.5	15.8 S, 179.2 W (CGS)
(7)	iP	E	15	51	51.2	

Date	Phase	Comp.	Time (GCT)			Distance (km)
8 JUL						
(8)	eS	N'	16	26	17.2	
	LQ	N'	16	34	17.5	
(9)	iP	E	18	38	16.6	
(10)	iP	Z	21	23	41.4	
	iS	NE	21	23	48.8	50
9 JUL						
(1)	iP	NEZZ'	00	46	41.4	
	eS	N'E'Z'	00	50	49.0	2600
	LR	Z*	00	51	44.0	
(2)	iP	NEZ	04	24	00.1	
(3)	e(S)	N'E'Z'	09	24	55.6	
(4)	iP	NEZN'E'Z'	10	30	52.5	
	iS	N'	10	31	01.5	70
(5)	iP	Z	12	55	15.8	235
	iX	E	12	55	29.7	
	iS	Z	12	55	41.0	
(6)	eP	NE	17	20	14.8	
(7)	iP	NEZ	22	54	44.2	
	iS	E	22	54	51.8	60
10 JUL						
(1)	iP	E	01	39	34.5	
(2)	iP	N	01	41	02.1	
	iS	N	01	41	16.2	120
(3)	iP	Z	04	07	05.2	
	iS	N	04	07	23.4	160
(4)	iP	E	12	19	20.4	
(5)	iP	Z	16	36	19.8	
	iS	N	16	36	30.8	90
11 JUL						
(1)	iP	N	07	52	29.8	
(2)	iP	E	10	18	18.2	

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Date	Phase	Comp.	Time (GCT)	Distance (km)
11 JUL				
(3)	iP	Z	12 17 00.2	
(4)	iP	N	14 11 59.6	
(5)	iP	E	20 32 16.8	85
	iS	E	20 32 26.4	
12 JUL				
(1)	iP	E	10 09 52.4	
(2)	iP	E	13 21 28.2	
(3)	iP	Z	16 04 00.8	450
	iS	E	16 04 50.2	
(4)	iP	N	18 11 05.4	
13 JUL				
(1)	iP	E	03 32 52.2	
(2)	eP	Z'	14 42 21.0	980
	eS	N'	14 44 00.0	
	iX	E	14 45 07.4	
14 JUL				
(1)	(LQ)	N'	01 15 01.0	
(2)	iP	E	08 09 41.6	
(3)	iP	E	09 39 39.6	300
	eS	N'	09 40 11.6	
(4)	iP	Z	10 12 43.4	80
	iS	N	10 12 53.0	
(5)	iP	E	15 34 48.0	210
	iS	E	15 35 10.6	
(6)	iP	Z	18 15 11.6	860
	eS	E'	18 16 41.6	
	LR	Z'	18 16 42.2	
(7)	LR	Z'E'	18 31 43.4	0.1 S, 122.8 E (CGS)
15 JUL				
(1)	(LQ)	N'E'	01 16 24.4	
(2)	iP	Z	04 10 34.2	520
	iS	N'	04 11 28.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)
15 JUL				
(3)	eX	E'	19 41 29.0	waves over a minute in period
(4)	iP	E	11 36 54.6	
(5)	iP	NEZN' E'Z'	18 34 44.2	
(6)	iP	N	20 24 47.8	
(7)	iP	E	22 56 33.4	
(8)	iS	E'	22 58 25.8	
	LQ	E'	22 58 49.8	
(9)	iP	E	23 08 01.2	
16 JUL				
(1)	iP	N	01 24 36.8	510
	iS	E'	01 25 29.8	
	LR	Z'	01 25 49.2	
(2)	iP	E	01 58 12.2	
(3)	eX	N'	06 16 02.0	
(4)	iP	E	08 00 10.6	
(5)	iP	Z	08 14 30.2	
(6)	iP	Z	08 35 37.4	
(7)	iP	E	08 41 31.4	
(8)	eX	E'N'	09 59 54.0	
(9)	iP	Z	11 49 10.4	
(10)	e(S)	N'Z'	13 31 43.2	
	LQ	N'	13 35 44.0	
	LR	Z'	13 39 06.2	
(11)	iP	Z	16 38 08.6	1280
	iS	Z'E'N'	16 40 14.8	
	LR	Z'	16 41 35.0	
(12)	iP	N	17 33 42.6	
(13)	iP	E	21 40 54.0	

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Date	Phase	Comp.	Time (GCT)			Distance (km)	
16 JUL (14)	eP	Z'	22	41	31.0	11.8 S, 166.1 E 5000	
	eS	E'	22	48	05.4		
	LQ	N'	22	52	18.0		
	LR	Z'	22	54	47.4		
17 JUL (1)	eX	N'	01	39	02.0	9.7 S, 159.8 E 4250 7.2 S, 153.6 E 3550	
	(2)	iP	N	03	10		50.2
	(3)	eP	NEZ'	07	27		49.4
		eS	Z'	07	33		40.0
	(4)	iP	E	13	52		12.0
	(5)	iP	Z'	12	54		16.0
		iS	N'	12	59		14.4
		LQ	N'	13	01		22.0
		LR	Z'	13	02		55.4
	(6)	iP	NE	21	47		51.6
	18 JUL (1)	iP	E	04	09		22.6
(2)		iP	E	05	13	20.2	
(3)		eP	EZZ'	05	36	18.6	
		eS	N'	05	39	43.0	
(4)		iP	E	08	19	39.2	
(5)		iP	E	10	48	41.4	
		eS	N'Z'	10	49	20.6	
(6)		iP	Z	13	55	04.4	
		i(S)	Z	13	55	09.6	
(7)		iP	Z	13	58	11.6	
		iS	Z	13	58	17.6	
(8)	eP	E	18	52	42.0		
	iS	Z	18	53	43.4		
(9)	iX	E	21	14	02.0		
(10)	iX	E	21	42	33.8		
(11)	(LQ)	N'	22	34	27.2		

Date	Phase	Comp.	Time (GCT)	Distance (km)
19 JUL				
(1)	iP	E	00 53 46.8	730
	iS	E	00 55 02.0	
(2)	eP	E	04 13 48.4	170
	iS	N	04 14 07.2	
(3)	eX	N'	05 54 19.4	
	(LR)	Z'	05 57 13.0	
(4)	eX	E	06 22 43.0	
(5)	iP	E	08 20 00.0	
(6)	eX	Z'	09 18 54.8	
	(LQ)	N'	09 26 34.6	
	(LR)	Z'	09 27 27.8	
(7)	iP	N	13 30 46.8	
(8)	iP	N	14 43 06.4	
(9)	e(PPP)	Z'	16 54 19.0	
	eS	Z'	16 58 53.2	
	LQ	N'	17 05 45.0	
	LR	Z'	17 08 05.6	
(10)	iP	ZZ'	20 09 27.6	7.1 N, 126.8 E (CGS)
	iS	N'	20 09 47.6	
(11)	iP	E	22 02 39.2	
(12)	iP	E	23 53 49.0	
20 JUL				
(1)	iP	E	01 33 03.4	
(2)	iP	E	05 02 43.2	
(3)	iP	NE	06 11 47.2	
(4)	iP	N	07 52 47.6	
(5)	iP	NEZN'E'Z'	13 18 50.8	7.5 N, 124.3 E (CGS)
(6)	iP	N	13 44 56.0	
(7)	iX	Z'	13 48 07.0	
(8)	iP	N	13 51 16.0	
(9)	iP	N	14 03 24.6	

Date	Phase	Comp.	Time (GCT)	Distance (km)
20 JUL				
(10)	iP	Z	14 09 45.6	
	i(S)	N	14 10 05.8	
(11)	iP	E	14 15 46.6	
(12)	iP	NE	16 47 05.4	
21 JUL				
(1)	iX	E	00 42 40.8	
(2)	eP	Z'	03 02 08.4	206.8 S, 175.8 W (CGS) 7100
	eS	N'	03 10 50.8	
	LQ	N'	03 19 18.4	
	LR	Z'	03 22 48.0	
(3)	iP	E	05 28 38.0	33
	iS	N	05 28 44.2	
(4)	iP	N	06 03 35.4	
(5)	iP	N	06 46 52.0	
(6)	iP	Z	17 27 14.2	290
	iS	E	17 27 44.8	
(7)	eP	Z'	18 02 34.6	53.3 N, 170.4 E (CGS) 6650
	eS	E'Z'	18 10 33.0	
	SSS	N'E'Z'	18 17 15.4	
	LR	Z'	18 20 36.6	
(8)	iP	E	18 08 27.0	
(9)	eX	N'E'Z'	21 16 02.0	
	eX	N'	21 16 46.8	
22 JUL				
(1)	eX	N'E'Z'	01 37 02.0	
(2)	iP	E	06 58 28.6	
(3)	iP	Z	09 04 25.6	380
	eS	N'Z'	09 05 05.4	
(4)	iP	NE	11 54 47.4	
(5)	(LR)	Z'	20 22 51.8	
(6)	iP	NE	21 11 56.8	
(7)	e(P)	N'E	23 04 15.6	
	iS	NEZN'E'	23 04 21.6	

Date	Phase	Comp.	Time (OCT)	Distance (km)
23 JUL				
(1)	1P	N	01 44 27.6	
(2)	oP 1S	NE E	02 34 02.0 02 34 12.0	80
(3)	1P	N	03 28 08.6	
(4)	1P	E	03 39 41.4	
(5)	1P	E	04 52 11.0	
(6)	1P	NE	06 04 32.2	
(7)	oP	E	06 34 50.4	
(8)	oP 1S	NE NE	17 28 20.6 17 28 44.6	220
(9)	1P	N	19 01 14.6	
(10)	1P 1S	Z N	23 21 57.8 23 22 18.6	190
24 JUL				
(1)	1P 1S LQ	Z NE N	03 45 38.4 03 45 53.4 03 45 53.4	130
(2)	LR	N*Z*	05 21 43.0	
(3)	1P	Z	08 21 21.6	
(4)	1P	E	11 06 01.6	
(5)	1P 1S	Z Z	11 07 21.4 11 07 36.8	130
(6)	1P	E	12 06 56.2	
(7)	1P	NE	12 48 20.6	
(8)	1P	NE	15 32 55.6	
(9)	1P 1S	Z Z	18 58 23.6 18 58 45.6	200
(10)	1P 1S	NEZ NE	22 16 14.2 22 16 20.4	33
(11)	1P	N	22 52 20.8	

Date	Phase	Comp.	Time (GCT)			Distance (km)
25 JUL						
(1)	iP	ZZ'	03	46	15.2	2.0 N, 99.3 E (CGS) Northern Sumatra (CGS) 3000
	eS	N'E'Z'	03	51	00.0	
	LQ	N'E'	03	52	54.0	
	LR	Z'	03	54	07.0	
(2)	iP	NE	09	24	31.8	
(3)	iP	N	10	41	51.8	possibly a separate shock
	i(S)	E	10	44	06.6	
(4)	eP	E	13	40	34.4	
(5)	eP	Z'	13	46	46.4	1750
	eS	Z'	13	49	38.8	
	LQ	E'	13	50	02.0	
	LR	Z'	13	51	05.0	
(6)	eX	E'	22	05	18.6	
(7)	eX	E'	22	08	48.6	
(8)	eS	Z'	22	12	22.8	
	LQ	N'	22	13	13.4	
	LR	Z'	22	14	08.8	
26 JUL						
(1)	iP	E	05	03	19.6	
(2)	iP	NE	06	46	26.8	110
	iS	E	06	46	39.8	
(3)	iP	ZN'E'Z'	07	00	58.9	
(4)	iP	E	14	42	44.4	
(5)	eP	Z'	15	34	32.0	15.8 S, 172.9 W (CGS) 7350
	eS	E'	15	43	42.0	
	LR	Z'	15	55	15.4	
(6)	iP	EZ	19	34	41.0	235
	iS	EZ	19	35	06.5	
(7)	iP	Z	21	35	27.2	180
	iS	E	21	35	47.6	
27 JUL						
(1)	iP	Z	00	00	00.4	220
	iS	E	00	00	24.2	
(2)	iP	N	01	57	21.6	
(3)	iP	NE	02	05	14.2	

Date	Phase	Comp.	Time (GCT)	Distance (km)
27 JUL				
(4)	iP	NE	05 33 12.6	
(5)	iP	N	07 51 17.0	520
	iS	N	07 52 11.4	
(6)	iP	Z	07 54 55.0	6.0 N, 126.0 E (CGS)
	iX	N	07 54 57.6	
(7)	iP	Z	12 16 58.4	260
	iS	NN'E'	12 17 26.4	
(8)	iP	Z	12 58 45.2	240
	iS	NE	12 59 11.0	
(9)	iP	E	13 12 19.2	
(10)	iP	Z	15 05 39.0	60
	iS	E	15 05 47.2	
(11)	iP	Z	18 31 02.0	390
	iX	E	18 31 30.2	
	iS	N'Z'	18 31 43.0	
(12)	iP	Z	22 55 27.2	200
	iS	MN'	22 55 49.2	
28 JUL				
(1)	iP	N	01 57 27.2	
(2)	iP	Z	02 30 40.4	160
	iS	N	02 30 58.8	
(3)	eP	Z'	04 00 06.0	2250
	eS	Z'	04 03 46.4	
	LR	Z'	04 05 24.0	
(4)	eP	E	04 51 13.6	
(5)	iP	N	15 57 08.0	
(6)	iP	N	17 08 50.6	
(7)	iP	NE	20 55 10.4	
(8)	iP	NE	21 26 04.0	
(9)	iP	E	21 52 35.8	
(10)	iP	ZZ'	22 34 57.0	2.2 S, 101.8 E (CGS)
	eS	Z'	22 38 49.4	2800
(11)	iP	E	22 45 28.6	

Date	Phase	Comp.	Time (GCT)	Distance (km)
29 JUL				
(1)	iP	Z	01 44 29.2	
(2)	iP	NE	05 09 24.0	
(3)	iP	ZZ'	08 40 19.6	51.2 N, 171.3 W (CGS) 7660
	iS	Z'	08 49 20.6	
	LR	Z'	09 01 19.0	
(4)	eX	N	13 35 19.6	
(5)	LR	Z'	15 43 33.8	
(6)	iP	N	20 12 03.8	
30 JUL				
(1)	iP	NE	01 44 40.2	
(2)	iP	E	02 28 35.2	
(3)	LR	Z'	08 42 33.0	
(4)	iX	N	12 15 11.6	
(5)	iP	NZ	17 16 06.4	
(6)	iP	Z	19 41 10.6	290
	iS	E	19 41 41.4	
(7)	iP	E	21 28 53.6	
(8)	iP	E	23 23 47.6	
31 JUL				
(1)	iP	Z	00 40 30.2	210
	iS	N	00 40 53.6	
(2)	iP	Z	00 45 09.2	220
	iS	N	00 45 32.8	
(3)	eX	N'Z'	01 09 36.0	
(4)	iP	N	01 27 07.0	200
	iS	E	01 27 28.6	
(5)	iP	NE	06 47 53.4	
(6)	eP	Z'	07 03 22.0	
	eX	E'	07 03 53.0	
(7)	e(S)	Z'	07 50 06.0	
	LR	Z'	07 52 52.4	

Date	Phase	Comp.	Time (GCT)	Distance (km)
31 JUL (8)	1P	ZE'Z'	14 03 13.2	
(9)	1P	NE	15 58 46.6	
(10)	1P	E	16 14 13.6	
(11)	1P	E	17 23 22.4	
(12)	LR	Z'	17 29 41.4	
(13)	1P	Z	18 51 41.8	
(14)	1P	NEZZ'	18 59 04.8	
	i(S)	N	18 59 21.2	
(15)	LR	Z'	19 25 29.2	
(16)	eX	Z'	22 06 42.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)
1 AUG				
(1)	iP	E	05 49 32.2	980 0.3 N, 125.8 E (CGS)
(2)	iP	Z	05 57 15.6	
(3)	iP	Z	08 41 15.4	
	iX	N	08 41 37.0	
(4)	eP	Z'	09 21 26.6	
	iS	E'	09 23 05.2	
(5)	iP	N	10 16 07.0	
(6)	iP	N	12 34 30.4	
(7)	iP	Z	15 10 16.4	
(8)	eX	E'	15 19 38.0	
(9)	eX	N'	20 28 37.2	
	LR	Z'	20 30 32.2	
(10)	iP	E	22 19 20.6	
2 AUG				
(1)	iP	Z'	13 30 54.0	7585 56.2 S, 158.2 E (CGS)
	iP	Z	13 31 04.4	
	i S	Z'	13 40 00.0	
(2)	iP	NE	19 08 46.0	
(3)	iP	E	21 18 49.2	
(4)	iP	Z	21 25 54.4	
(5)	iP	N	23 27 53.6	
3 AUG				
(1)	iP	E	02 22 05.8	
(2)	iP	E	02 31 51.2	
(3)	LR	Z'	02 46 06.5	
(4)	iP	N	02 52 33.6	
(5)	LR	Z'	03 12 25.0	
(6)	eX	Z'	08 42 42.0	
	eX	N'	08 43 25.5	

Date	Phase	Comp.	Time (GCT)	Distance (km)
3 AUG				
(7)	iP	N	13 25 52.4	
(8)	iP	NE	13 43 31.4	
(9)	iP	Z	15 54 31.2	
(10)	iP	N	15 55 46.2	
(11)	iP	Z	16 39 13.6	
(12)	iP	NE	19 15 15.4	1270
	eS	N'	19 17 22.0	
4 AUG				
(1)	e(P)	NEZ	03 16 46.0	
(2)	eX	E'	09 01 52.0	
	eX	E'Z'	09 07 30.0	
	LR	Z'	09 10 07.0	
(3)	eP	NE	09 49 35.0	
	i(S)	E	09 49 50.0	
(4)	iP	Z'	19 32 39.5	225
	eP	NEE'Z'	19 32 39.5	
	iS	NE	19 33 04.0	
(5)	iP	Z	23 02 38.0	215
	eP	NE	23 02 38.0	
	iS	NEN'E'Z'	23 03 01.5	
5 AUG				
(1)	e(P)	NEZN'E'Z'	00 13 47.5	
(2)	eP	N	05 40 21.4	180
	iS	N	05 40 41.4	
(3)	iP	Z	08 18 37.2	
	iS	Z	08 18 42.2	
(4)	iP	Z	08 31 06.8	110
	iS	E	08 31 20.2	
(5)	iP	Z	08 38 43.6	
(6)	iP	NEZ	08 47 40.2	
(7)	iP	NEZ	13 42 51.2	
(8)	iP	NZ	15 27 19.6	

Date	Phase	Comp.	Time (GCT)			Distance (km)
5 AUG						
(9)	e(P)	Z'	19	59	51.0	
	eS	E'	20	08	04.4	
	LR	Z'	20	17	37.4	
6 AUG						
(1)	e(P)	N	01	44	39.0	
(2)	eX	NE	03	07	05.0	
(3)	eX	NE	03	53	54.5	
(4)	eX	NE	07	57	11.2	
(5)	eX	NE	12	04	42.0	
(6)	e(P)	NE	12	38	37.0	
	eX	N'	12	39	33.0	
	LR	E'Z'	12	40	04.0	
(7)	eP	NEN'E'Z'	13	34	02.0	160
	eS	NE	13	34	20.0	
	eS	N'E'	13	34	20.0	
(8)	i(P)	NEZ	18	21	14.5	
(9)	e(P)	NEZ	19	10	27.5	
(10)	e(P)	NEZ	19	27	46.5	
	eS	N'E'Z'	19	28	20.0	
(11)	eP	Z'	20	52	22.0	3800
	eS	E'	20	57	46.0	
	LR	Z'	21	01	38.0	
(12)	eP	NE	21	36	54.0	
(13)	iP	NEZ	23	47	01.0	260
	eP	N'E'Z'	23	47	01.0	
	iS	NEN'E'	23	47	29.0	
7 AUG						
(1)	eX	E	01	10	47.2	
(2)	iP	N	08	28	44.6	
(3)	iP	E	09	05	15.2	
(4)	iP	ZE'Z'	13	26	44.4	6.8 N, 126.9 E (CGS)
(5)	iP	ZZ'	14	06	27.4	6.8 N, 126.9 E (CGS)

Date	Phase	Comp.	Time (GCT)	Distance (km)
7 AUG				
(6)	iP	Z	14 42 15.8	200
	iS	E	14 42 38.0	
(7)	iP	E	15 22 42.6	
(8)	eP	Z	19 17 28.4	
(9)	eX	NE	20 10 57.0	
(10)	eX	N	23 41 04.4	
8 AUG				
(1)	iP	ZE'Z'	04 33 07.0	6.8 N, 127.0 E (CGS)
(2)	iP	NEZ'	09 47 31.2	460 4.1 N, 128.6 E (CGS)
	iS	N'	09 48 22.4	
(3)	eP	Z'	13 00 06.0	7000
	eS	E'	13 08 32.0	
	SSS	E'	13 16 22.4	
	LR	Z'	13 20 00.0	
(4)	iP	E	13 50 37.0	
(5)	eP	E	18 05 09.4	
	eX	Z'	18 05 25.0	
(6)	iP	E	18 28 11.4	
(7)	iP	N	23 31 11.2	
9 AUG				
(1)	eP	E'	10 17 16.0	
	LR	Z'	10 19 39.8	
(2)	eX	E'	10 29 46.6	
	eX	Z'	10 31 33.2	
(3)	iP	NEN'E'Z'	10 38 57.4	
(4)	e(P)	N'	13 13 47.0	
	iS	N'	13 14 44.4	
	LR	Z'	13 15 06.0	
(5)	eP	E'Z'	16 41 09.6	870 0.6 S, 127.4 E (CGS)
	iS	E	16 42 42.0	
(6)	iP	N	16 48 37.0	
(7)	e(P)	Z'	17 32 52.4	
	eX	N'	17 37 41.0	

Date	Phase	Comp.	Time (GOT)	Distance (km)	
9 AUG	iP	Z	21 07 17.6	180	
		EE'	21 07 37.6		
	(8)	iS			
(9)	iP	Z	21 45 25.0		
10 AUG	e(P)	N'	00 38 31.0		
		eX	00 40 04.6		
		eS	00 43 30.4		
	(2)	iP	N	01 35 02.0	
	(3)	iP	ZE'	21 05 46.8	190
		iS	EN'	21 06 07.4	
	(4)	iP	Z	21 11 00.0	210
		iS	N'	21 11 23.0	
	(5)	eP	E	21 17 03.6	
	11 AUG	(1)	eP	E	02 30 17.4
(2)		eX	E	03 19 04.0	
(3)		iP	Z'	03 49 26.0	5230 15.4 S, 166.9 E (CGS)
		eX	Z'	03 51 08.0	
		eS	Z'	03 56 18.0	
		LQ	N'	04 00 44.0	
		LR	Z'	04 03 07.0	
(4)		iP	NE	08 49 22.4	
(5)		iP	Z	14 36 29.2	200
		iS	E	14 36 51.4	
(6)	iP	Z	16 20 37.6		
(7)	eX	Z	18 42 04.8		
(8)	eP	Z'	20 01 02.0	5260 15.7 S, 167.1 E (CGS)	
	iS	N'Z'	20 07 53.0		
	LQ	N'	20 12 56.0		
	LR	Z'	20 16 10.0		
(9)	iX	Z	20 22 50.6		
(10)	eP	N	21 45 07.4	90	
	iS	E	21 45 18.2		

Date	Phase	Comp.	Time (GCT)			Distance (km)	
11 AUG (11)	eP	Z'	22	40	20.0	5250	
	iS	Z'	22	47	27.0	15.8 S, 167.2 E (CGS)	
12 AUG	(1)	iP	01	35	03.4	570	
		iS	01	36	02.0		
	(2)	iP	01	40	34.2		
	(3)	eX	E	02	30	18.6	
	(4)	eX	E	03	06	02.0	
	(5)	iP	Z	04	19	21.4	
	(6)	iP	Z'	08	10	17.6	5290
		eS	N'	08	17	10.0	15.9 S, 167.5 E
		LQ	N'	08	22	00.0	(CGS)
		LR	Z'	08	24	58.0	
	(7)	iP	Z	12	46	11.0	280
		iS	E	12	46	41.4	
	(8)	eP	Z'	13	03	09.0	5400
	eX	Z'	13	10	08.0	5.3 S, 152.2 E (CGS)	
(9)	eP	Z'	18	13	26.4	5230	
	eS	N'	18	20	18.8	16.0 S, 167.4 E	
	LQ	N'	18	25	09.4	(CGS)	
	LR	Z'	18	28	24.0		
(10)	iP	NE	18	25	40.0		
(11)	LR	Z'	19	27	00.0		
(12)	eX	Z'	21	12	51.0		
	LR	Z'	21	14	50.6		
(13)	eP	N	22	25	31.0		
	eP	Z'	22	25	51.0		
13 AUG	(1)	iP	00	20	44.4		
	(2)	eP	04	49	27.4	5260	
		eS	04	56	20.6	15.9 S, 167.5 E	
	LQ	N'	05	01	09.0	(CGS)	
	LR	Z'	05	04	50.0		
(3)	iP	N	06	52	38.0		

Date	Phase	Comp.	Time (GCT)			Distance (km)
13 AUG						
(4)	eP	Z'	11	33	22.0	5240
	eS	N'	11	40	11.0	16.0 S, 167.0 E
	LR	Z'	11	46	19.0	(CGS)
(5)	eP	Z'	12	48	33.0	5150
	eX	Z'	12	51	42.0	15.9 S, 166.8 E
	ex	Z'	12	56	08.6	(CGS)
(6)	eP	Z'	18	05	02.0	5290
	eS	Z'	18	12	02.0	16.6 S, 167.6 E
	LR	Z'	18	18	30.0	(CGS)
(7)	iP	Z	18	21	52.2	
(8)	eX	E	19	27	22.0	
(9)	eP	Z'	22	03	11.4	2900 6.4 S
	eS	Z'	22	07	54.0	148.5 E
						(CGS)
(10)	iP	NE	22	26	11.4	
14 AUG						
(1)	iP	Z	05	30	54.2	
	eP	Z'	05	30	54.2	
(2)	eP	Z'	11	16	12.0	5160
	eS	N'E'	11	23	04.6	15.8 S, 166.8 E
	eX	N'	11	28	46.4	(CGS)
	LR	Z'	11	31	14.0	
(3)	eP	Z'	13	26	14.0	5015
	eS	E'	13	32	47.6	11.5 S, 166.3 E
	(LQ)	N'	13	37	58.0	(CGS)
	LR	Z'	13	39	55.0	
(4)	eX	N'	14	55	11.0	
(5)	iP	NE	17	08	34.2	
(6)	iP	NE	17	44	45.0	
(7)	iP	N	19	37	47.2	
(8)	iP	NE	20	50	05.4	
(9)	iP	Z	22	43	20.6	
(10)	iP	E	22	55	31.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)
15 AUG				
(1)	iP	Z	02 09 26.6	240
	eX	Z'	02 09 49.0	
	iS	NE	02 09 52.6	
(2)	iP	Z	04 46 32.8	1010
	eS	E'	04 48 57.0	14.3 N, 120.1 E (CGS)
(3)	iP	Z	05 29 02.0	
	eS	N'Z'	05 29 44.4	400
(4)	iP	N	05 49 46.8	
(5)	eP	Z'	07 07 48.0	190
	iP	E	07 07 49.4	
	iS	N	07 08 09.0	
(6)	iP	N	09 28 32.4	
(7)	iP	N	13 54 41.8	
(8)	eP	N'	14 36 11.0	
	e(S)	E'	14 36 55.0	
(9)	iP	NE	15 44 21.4	
(10)	iP	Z	15 50 01.6	350
	iS	N	15 50 38.6	
(11)	eP	Z	16 00 09.6	
(12)	eP	Z	18 42 17.0	
16 AUG				
(1)	eP	N	08 36 29.6	
(2)	PKP	Z'	12 55 59.0	
	(SS)	N'	13 18 04.0	
	(SSS)	E'	13 23 58.6	
	LQ	N'	13 36 52.0	
(3)	iP	Z	15 04 47.6	
(4)	eP	EE'	16 19 51.2	11.0 N, 121.7 E
	i(S)	E	16 20 46.2	(CGS)
(5)	iP	E	16 41 58.4	
(6)	eP	E'	17 15 37.8	
	e(S)	E'	17 22 11.0	
	LR	Z'	17 29 50.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)
16 AUG				
(7)	iP	E	17 44 09.0	
(8)	iX	NE	17 54 57.0	
(9)	iP	Z	18 44 24.4	580
	eS	N'	18 45 24.4	
	LR	Z'	18 45 55.8	
(10)	iP	N	20 50 36.4	
(11)	iP	Z	23 14 02.0	2690
	eS	N'	23 18 15.0	
	LQ	N'	23 21 06.0	
	LR	Z'	23 23 16.0	
17 AUG				
(1)	iP	Z	03 33 04.6	135
	iS	E	03 33 20.0	
(2)	iP	N	04 21 27.0	
(3)	iP	Z	07 08 22.8	
(4)	eP	Z'	07 37 34.0	590
	eS	N'	07 38 44.0	12.4 N, 125.7 E (CGS)
(5)	iP	Z	07 42 11.8	
	iS	N	07 43 27.6	740
(6)	iP	Z	08 07 27.2	590
	iS	Z	08 08 51.4	12.4 N, 125.7 E (CGS)
(7)	iP	N	08 40 03.4	
(8)	iP	E	10 11 30.6	
(9)	iP	E	10 41 07.2	3280
	eS	Z'	10 46 21.0	5.3 N, 96.2 E
	LR	Z'	10 49 54.0	(CGS)
(10)	iP	E	13 10 06.8	
(11)	iP	N	14 12 10.4	750
	eS	Z'	14 13 27.0	
(12)	iP	N	14 15 47.8	
(13)	eP	Z'	16 26 03.0	5100
	eS	N'	16 32 53.0	15.2 S, 166.6 E
	LQ	N'	16 37 53.0	(CGS)
	LR	Z'	16 41 02.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)
17 AUG				
(14)	iP	E	18 05 32.6	
(15)	iP	E	19 11 07.0	1060
	eS	E'	19 12 54.0	
	LQ	N'	19 13 36.0	
	LR	Z'	19 14 32.4	
(16)	iP	Z	19 54 33.2	190
	iS	N	19 54 54.2	
(17)	iP	E	21 17 04.4	
(18)	eP	E'	22 35 12.0	3440
	e(PPP)	E'	22 36 41.6	
	eS	N'	22 40 12.6	
	LR	Z'	22 43 45.8	
18 AUG				
(1)	iP	N	00 04 44.0	
(2)	iX	Z	03 16 25.4	1750
(3)	eP	Z'	05 14 12.0	10.5 N, 141.3 E
	eS	E'	05 17 08.6	(CGS)
	(LR)	Z'	05 47 56.6	
(4)	eP	E	06 54 19.8	450
	eS	N'	06 55 06.6	
	(LQ)	N'	06 55 26.0	
(5)	iP	N	07 02 06.6	
(6)	eP	Z'	07 21 15.0	50
	eS	E'	07 21 21.8	
(7)	iP	I	08 34 31.2	
(8)	iP	E	09 26 11.2	380
	iS	E	09 26 51.4	
(9)	iP	E	11 16 46.2	
(10)	iP	E	12 46 47.6	
(11)	eP	N'	14 35 19.0	
	LR	Z'	14 46 41.0	
(12)	eP	Z'	15 00 02.0	5270
	e(S)	E'	15 06 03.0	16.0 S, 167.0 E
	LQ	E'	15 15 23.0	(CGS)
	LR	Z'	15 17 21.0	

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Date	Phase	Comp.	Time (GCT)	Distance (km)
18 AUG				
(13)	iP	N	15 18 35.8	
	iX	E	15 18 52.8	
(14)	eX	E	21 57 51.6	
19 AUG				
(1)	eP	Z'	02 54 25.2	6.8 N, 127.1 E (CGS)
	iP	Z	02 54 25.2	
	e(S)	N'	02 54 43.0	
	LR	Z'	03 00 36.0	
(2)	eX	E	03 30 28.4	
(3)	iP	Z	07 25 03.8	180
	eP	Z'	07 25 03.8	
	iS	E	07 25 24.0	
(4)	iP	Z	14 04 21.2	
(5)	eP	N	15 41 29.0	
(6)	iP	NE	16 42 07.4	
(7)	iP	N	17 16 26.0	
(8)	iP	N	19 42 47.4	
(9)	iP	Z	19 52 20.4	
(10)	eP	N	19 56 19.6	
	eX	N'E'	19 58 45.0	
(11)	eX	N	20 36 30.4	
(12)	iP	Z	21 00 44.4	
(13)	iP	E	22 00 28.4	
20 AUG				
(1)	iP	NZ	05 57 48.6	
(2)	iP	NEZ	08 31 49.2	4170
	iS	N	08 37 35.4	
(3)	eP	Z'	10 02 36.0	
	eX	N'	10 17 49.4	
(4)	iP	Z	14 59 44.8	
	LR	Z'	15 02 55.0	
(5)	iP	N	15 01 46.0	

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Date	Phase	Comp.	Time (GCT)	Distance (km)
20 AUG				
(6)	iX	E	16 55 55.4	
(7)	iP	Z	18 23 47.6	
(8)	iP	Z	21 02 24.6	
(9)	iP	E	21 28 00.0	
(10)	iP	Z	21 32 19.6	7170 22.9 S, 176.3 W (CGS)
	eP	Z'	21 32 19.6	
	eS	E'	21 40 51.8	
	LQ	N'E'	21 49 35.0	
	LR	Z'	21 52 13.0	
(11)	iP	EZ	23 45 18.8	100
	eP	N'	23 45 18.8	
	eS	N'E'	23 45 30.6	
(12)	eP	Z'	23 49 29.0	
(13)	iP	E	23 49 46.8	
21 AUG				
(1)	iP	NE	01 02 25.2	
(2)	iP	E	05 16 25.4	
(3)	eX	E	05 19 07.2	
(4)	LR	Z'	08 19 38.0	
(5)	eX	E'	09 09 20.0	
(6)	iP	Z	14 55 09.2	
(7)	eP	Z'	15 09 43.0	2810 5.9 S, 104.2 E (CGS)
	eS	E'	15 14 07.0	
	LQ	N'	15 16 00.0	
	LR	Z'	15 17 41.6	
22 AUG				
(1)	iP	Z	02 45 15.4	200
	eP	Z'	02 45 15.4	
	iS	E	02 45 37.6	
(2)	eP	Z'	04 03 41.0	4450
	eS	E'	04 09 44.0	
	(ScS)	Z'	04 13 40.0	
(3)	iX	E	07 55 43.4	
(4)	eP	Z'	07 59 20.0	

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Date	Phase	Comp.	Time (GCT)	Distance (km)
22 AUG				
(4)	e(S)	N'	08 00 21.0	
(5)	iX	E	09 59 07.8	
(6)	eP	Z'	10 01 11.0	290
	eS	N'	10 01 42.0	
(7)	eP	E'	10 27 34.0	
	(LQ)	N'	10 28 00.0	
	(LR)	Z'	10 28 36.0	
(8)	iP	Z	13 44 20.0	780
	iS	N	13 45 40.0	
(9)	iP	Z	14 41 22.0	170
	iS	N	14 41 41.4	
(10)	eX	E	15 38 12.0	
(11)	eP	N	15 39 41.2	
(12)	iP	EZ	21 51 43.4	
23 AUG				
(1)	iP	E	00 06 22.2	980
	eS	E'	00 08 01.0	
(2)	iP	E	04 35 49.2	
(3)	iP	E	07 41 05.0	
(4)	iP	N	08 26 29.8	
(5)	iP	E	09 12 17.6	
(6)	iP	NE	09 35 52.2	
(7)	iP	E	13 20 02.2	
(8)	iP	E	13 42 47.0	
(9)	eP	Z'	14 36 29.0	
	eX	N'	14 43 26.0	
	eX	N'	14 47 15.0	
	LQ	N'	14 51 06.0	
(10)	iP	N	18 41 37.6	
(11)	eP	Z'	20 02 11.0	16.3 N, 95.8 W
	ePKP	Z'	20 04 57.0	(CGS)
(12)	eP	Z	20 05 20.2	

Date	Phase	Comp.	Time (GCT)	Distance (km)
23 AUG (13)	eX	N	22 15 52.0	
24 AUG (1)	iP	E	03 27 37.6	
(2)	eP	Z'	04 51 25.0	1650
	eS	E'	04 54 09.0	5.8 S, 132.37 E
	LQ	E'	04 54 27.0	MO
	LR	Z'	04 55 08.0	
(3)	iP	EZ	07 04 40.2	
	eS	N'	07 04 41.0	
(4)	iP	N	09 19 42.0	710
	eS	E'	09 20 55.0	7.7 N, 118.93 E
	LR	Z'	09 21 00.0	MO
(5)	iP	Z	10 32 51.0	170
	iS	N	10 33 09.6	
(6)	iP	NE	10 46 38.5	
(7)	iX	E	11 31 30.4	
(8)	iP	EZ	11 33 34.0	120
	eP	E'Z'	11 33 34.0	
	iS	E	11 33 48.2	
(9)	eP	E'Z'	11 52 25.4	1225
	eX	N'	11 53 26.0	
	eS	N'E'	11 54 28.0	
(10)	e(P)	Z'	13 34 49.6	
	eX	N'E'	13 48 05.0	
	eX	N'	13 49 41.0	
	LR	Z'	13 54 36.0	
(11)	eP	Z'	14 07 38.0	2120
	eS	N'	14 11 04.0	3.2 S, 141.0 E (CGS)
(12)	iP	E	14 28 52.8	700
	iS	E	14 30 04.4	
(13)	e(P)	N'	15 57 34.0	
	e(S)	E'	15 58 26.0	
25 AUG (1)	iP	Z	01 17 34.4	
(2)	iP	ZZ'	02 15 53.2	
	eS	N'E'	02 16 14.6	190

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Date	Phase	Comp.	Time (GCT)			Distance (km)
25 AUG						
(3)	iP	E	06	36	03.4	240
	eS	E'	06	36	29.6	
(4)	eP	Z'	07	16	19.0	
(5)	iP	Z	09	01	53.0	
(6)	eX	E'	09	13	05.0	
(7)	iX	E	17	47	53.2	
(8)	iP	N	17	49	23.0	
(9)	eP	Z'	19	05	35.4	720
	iS	N	19	06	49.8	
	LQ	N'E'	19	07	15.0	
	LR	Z'	19	07	25.0	
(10)	iP	Z	22	01	25.4	180
	iS	NE	22	01	45.0	
26 AUG						
(1)	iP	NEZ	06	22	26.4	
	eP	N'E'Z'	06	22	26.4	
(2)	iX	E	15	04	30.4	
(3)	iP	NZ	16	30	32.8	
(4)	iP	NE	19	23	45.0	
(5)	iP	N	22	16	03.6	
27 AUG						
(1)	iP	Z	00	15	06.4	
(2)	iP	E	04	09	16.4	
(3)	e(P)	Z'	07	20	16.0	
	e(S)	N'	07	22	43.0	
(4)	LR	Z'	07	31	50.0	
(5)	eS	N'	18	36	44.0	
	LQ	N'	18	40	33.0	
	LR	Z'	18	42	22.0	
(6)	eX	N'	18	54	11.0	
(7)	iP	E	21	06	48.2	

Date	Phase	Comp.	Time (GCT)	Distance (km)
28 AUG				
(1)	iX	E	03 00 11.6	
(2)	iX	N	04 45 13.2	
(3)	iP	NE	07 48 24.8	
(4)	iP e(S)	Z	10 44 22.2	
		N'E'	10 47 38.0	
(5)	iP e(S)	E	11 01 06.4	
		N'	11 02 11.0	
(6)	iP	Z	16 43 04.0	
(7)	iP	E	16 43 48.2	
(8)	iP	NE	17 33 34.2	
(9)	iP iS	Z	19 44 06.4	190
		N	19 44 27.2	
29 AUG				
(1)	iP eS	Z	02 23 02.6	290
		NE	02 23 34.0	
(2)	eP	Z'	12 55 09.0	5360
	eS	N'E'	13 02 05.6	11.6 N, 175.28 E
	LQ	N'E'	13 07 26.0	(MO)
	LR	Z'	13 09 20.0	
(3)	iP iS	Z	15 14 21.6	115
		E	15 14 45.2	
(4)	iP i(S)	Z	15 58 17.2	
		N	15 59 08.4	
(5)	iX	E	17 56 29.6	
30 AUG				
(1)	eX	E	11 06 16.0	
(2)	iP iS	Z'	11 56 13.0	255
		NE	11 56 40.5	
(3)	iP iS	NEZZ'	14 01 25.0	175
		NE	14 01 49.0	5.5 N, 126.0 E (CGS)
(4)	iP	ZZ'	18 15 03.6	
	iX	E	18 15 37.0	2820
	iS	NE	18 19 54.0	6.5 S, 104.7 E
	LR	Z'	18 21 54.0	(CGS)

Date	Phase	Comp.	Time (GCT)	Distance (km)	
30 AUG (5)	eP	NEZZ'	21 18 16.0		
	e(S)	N'	21 18 46.5		
31 AUG	(1) iP	N	08 57 05.0		
	(2) eX	Z'	08 41 32.0		
		LR	Z'	08 41 46.4	
	(3) eP	Z'	09 59 21.6	620	
		eS	E'		10 00 25.4
	(4) iX	E	15 54 16.6		
	(5) eX	E'	16 47 49.0		
		LQ	N'	16 56 38.0	
		LR	Z'	17 00 39.0	
	(6) iP	Z	19 47 42.4	2460 17.0 N, 145.2 E (CGS)	
		eS	E'		19 51 26.0
		LQ	N'		19 51 53.0
		LR	Z'		19 53 05.0
	(7) iP	Z	22 50 01.6	270 7.3 N, 128.03 E MO	
iS		N	22 50 30.8		

Date	Phase	Comp.	Time (GCT)			Distance (km)
1 SEPT.						
(1)	e(X)	Z'	05	01	13.0	
	eS	N'	05	06	46.0	
	(LQ)	E'	05	11	00.0	
	LR	Z'	05	15	53.0	
(2)	eX	Z'	05	19	37.0	
(3)	iP	EZ	06	42	18.6	340
	iS	E	06	42	55.0	
(4)	iP	E	06	46	57.6	
(5)	eP	Z'	06	47	32.0	4260
	eS	E'	06	53	24.0	
	(LQ)	E'	06	55	21.0	
	LR	Z'	06	58	46.0	
(6)	iX	N	07	26	54.6	
(7)	iP	NE	07	53	53.4	190
	iS	N	07	54	14.2	
(8)	LR	Z'	11	14	52.0	
(9)	iX	N	21	45	13.6	
2 SEPT						
(1)	iX	Z	02	00	08.4	
(2)	iP	E	04	11	29.6	
(3)	iP	E	04	37	06.0	
(4)	eP	Z'	04	36	46.0	Aleutian Islands
	eS	E'	04	45	04.0	51.9 N, 175.5 E
	(ScS)	E'	04	46	36.0	(CGS)
	(LQ)	N'	04	51	51.0	
	LR	Z'	04	55	02.0	
(5)	(LQ)	E'	05	08	28.0	
	LR	Z'	05	09	49.0	
(6)	iP	N	06	19	04.4	
(7)	iP	Z	06	45	13.4	220
	iS	N	06	45	37.2	
(8)	iP	N	08	36	55.0	
(9)	iP	Z	09	30	50.8	

Date	Phase	Comp.	Time (GCT)	Distance (km)
2 SEPT				
(10)	iX	E	11 19	29.4
(11)	iX	E	12 30	20.0
(12)	LR	Z'	19 05	10.0
(13)	eX	N'Z'	21 24	34.0
	LR	Z'	23 34	08.0
3 SEPT.				
(1)	iP	N	05 03	43.6
(2)	iP	N	07 24	04.0
(3)	iP	N	10 34	44.2
(4)	iP	Z	11 59	24.6
	iS	N'E'	11 59	37.4
(5)	iP	NE	16 51	11.2
(6)	iP	Z	18 19	03.8
	iS	N	18 19	14.6
(7)	eP	Z'	21 45	04.0
	eS	E'	21 49	51.0
	IQ	N'	21 52	04.0
	LR	Z'	21 53	28.0
4 SEPT.				
(1)	eP	Z'	01 07	27.0
	eS	E'	01 09	04.4
	(LR)	Z'	01 09	20.0
(2)	eX	N'	01 29	24.0
	LR	Z'	01 30	06.0
(3)	iP	E	02 39	14.6
(4)	iP	E	02 51	26.4
(5)	iP	E	05 47	08.6
(6)	e(P)	Z'	08 09	11.0
	e(S)	N'	08 17	32.0
	LR	Z'	08 22	26.4
(7)	iP	N	08 42	04.8

110
6.4 N, 125.9 E
(CGS)

90

3220
17.5 S 142.7 E(MO)

Date	Phase	Comp.	Time (GCT)			Distance (km)	
4 SEPT	(8)	eP	Z'	10	28	15.0	46.6 N, 153.5 E (CGS)
		eS	N'	10	34	58.0	
		LQ	N'	10	39	22.0	
		LR	Z'	10	42	14.0	
	(9)	iX	N	14	24	25.8	
	(10)	iP	Z	14	44	55.4	58.2 N, 152.6 W (CGS)
		eS	E'	14	54	58.0	
		eX	Z'	15	07	17.0	
		LR	Z'	15	11	19.0	
	(11)	eP	N	14	54	52.8	
	(12)	iX	N	15	54	14.6	
	(13)	iP	EZ	17	33	59.6	
	(14)	iX	N	20	27	33.4	
	(15)	iP	N	21	09	26.4	
	(16)	eX	N	22	46	44.6	
	5 SEPT	(1)	iP	Z	04	18	46.4
(2)		iX	N	05	49	34.4	
(3)		iP	EZ	06	42	11.0	
(4)		iP	E	07	18	52.2	
(5)		iP	Z	08	47	01.6	200
(6)		iP	E	10	46	16.4	
		iS	E	10	46	38.6	
(7)		iX	E	11	26	12.6	
		iS)	N	11	26	59.0	
(8)	iX	E	13	23	43.4		
(9)	iP	Z	14	56	07.4		

Date	Phase	Comp.	Time (GOT)	Distance (km)
5 SEPT				
	IS	E	14 58 43.4	
(10)	eX	N	18 09 42.2	
(11)	eX	N'	21 04 42.0	
(12)	eX	E	22 23 23.0	
(13)	eP	Z'	23 05 30.0	1830 20.8 N, 121.4 E (CGS)
	eS	E'	23 08 31.0	
	LR	Z'	23 10 25.0	
(14)	iP	Z	23 49 07.8	
	e(S)	N'	23 50 51.0	
6 SEPT				
(1)	iP	E	00 52 07.6	
(2)	iX	E	01 50 11.4	
(3)	iX	N	02 35 12.0	
(4)	iP	NE	02 46 29.4	
(5)	eX	E'	03 03 26.0	
	LR	Z'	03 03 38.0	
(6)	iP	Z	03 22 11.6	Taiwan Region 21.2 N, 121.4 E (CGS)
	eS	N'Z'	03 24 58.0	
	LQ	N'E'	03 25 24.0	
	LR	Z'	03 26 36.0	
(7)	iP	Z	04 55 50.6	
(8)	iP	E	05 33 10.6	
(9)	eX	N'	13 29 13.0	
	LQ	N'	13 29 26.0	
(10)	iP	Z	17 46 39.4	
	IS	E	17 46 59.0	
(11)	eS	E'	19 23 36.0	
	LQ	E'	19 24 54.6	
	LR	Z'	19 26 20.4	
(12)	e(P)	Z'	20 39 45.0	
	eS	E'	20 42 46.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)	
6 SEPT	LQ	N'	20 43	20.0	
	LR	Z'	20 44	49.0	
	(13)	eX	Z	21 33	11.8
	(14)	LR	Z'	22 21	26.0
	(15)	LR	Z'	22 56	43.0
7 SEPT	(1)	iP	E	01 27	37.8
	(2)	iP	Z	01 51	46.6
	(3)	iX	E	02 41	24.6
	(4)	iX	N	03 34	42.2
	(5)	eP	Z'	07 02	38.0
		eS	Z'	07 07	20.0
		LQ	E'	07 08	53.0
		LR	Z'	07 10	02.0
	(6)	iP	N	07 40	09.2
	(7)	e(P)	Z'	08 37	26.0
		e(S)	E'	08 44	21.0
		LR	Z'	08 52	10.0
	(8)	iP	Z	11 23	46.2
	(9)	iP	E	11 32	07.6
	(10)	iP	Z	12 19	28.2
(11)	iP	Z	13 59	46.8	
(12)	iP	ZZ'	15 30	40.2	
	eS	N'	15 31	15.2	
	eP	Z'	15 44	29.0	
	eS	N'	15 48	24.0	
	LQ	N'	15 49	09.0	
(13)	LR	Z'	15 50	00.0	
	iX	Z	19 33	40.2	
(14)	iX	Z	19 33	40.2	
(15)	eP	Z	19 48	50.2	

3140
31.5 N, 140.68 E
(MO)

330
18.2 N, 144.2 E
(CGS)

Date	Phase	Comp.	Time (GCT)	Distance (km)	
7 SEPT (16)	iP	Z	22 18 57.0	280	
	iS	E	22 19 27.4		
8 SEPT (1)	eP	Z'	03 38 32.0	57.5 N, 152.1 W (CGS)	
	eS	N'	03 48 41.0		
	LQ	N'	04 01 12.0		
	LR	Z'	04 04 20.0		
	(2)	iP	E	04 39 59.4	19.2 N, 145.3 E (CGS)
	(3)	iP	E	07 06 40.8	
	(4)	eP	N'	07 10 19.0	
		eX	N'	07 10 55.0	
	(5)	eX	E'	11 38 22.6	
		(LQ)	N'	11 49 36.0	
		LR	Z'	11 54 40.4	
	(6)	iP	N	11 58 57.6	
	(7)	iP	N	16 11 41.4	
	(8)	iP	NE	23 06 30.0	
	9 SEPT (1)	iX	N	02 38 33.0	120
		(2)	iP	E	
(3)		iP	Z	04 15 03.4	
		iS	N	04 15 17.8	
(4)		LQ	E'	04 57 33.0	
		LR	Z'	04 59 04.0	
(5)		i(PKP)	Z	10 22 11.6	
		e(SS)	N'Z'	10 45 52.0	
		LQ	N'	11 03 46.0	
		LR	Z'	11 10 18.0	
(6)		iP	Z	11 40 48.6	
		iS)	NE	11 41 10.4	
(7)		iP	Z	13 05 36.2	

Date	Phase	Comp.	Time (GCT)	Distance (km)
9 SEPT				
(8)	iP	E	13 07 22.4	
(9)	iP	Z	14 17 30.6	
(10)	iP	Z	14 43 35.4	
(11)	iP	Z	16 40 31.2	
(12)	iP	Z	21 19 11.0	140
	iS	NE	21 19 27.0	
10 SEPT				
(1)	iP	N	01 35 03.4	
(2)	iP	Z	03 23 52.2	
(3)	eP	Z'	03 24 33.0	
(4)	iP)	E	04 14 17.8	
	i(S)	E	04 15 10.2	
(5)	(LR)	Z'	07 43 14.0	
(6)	iP	Z	09 49 29.0	
(7)	iP	N	10 21 18.4	
(8)	iX	E	14 55 45.4	
(9)	eP	E	15 09 17.6	
(10)	eS	E'	19 37 41.0	
	LQ	E'	19 40 09.0	
(11)	iP	Z	21 16 09.6	190
	iS	E	21 16 31.0	
11 SEPT				
(1)	eP	Z'	01 07 08.0	120
	iS	N	01 07 22.2	
(2)	e(P)	Z'	05 31 27.0	
	LR	Z'	05 34 06.0	
(3)	eP	Z'	06 59 05.0	3375
	eS	Z'	07 04 02.0	3.5 S, 153.69 E
	LQ	N'	07 06 17.0	(MO)
	LR	Z'	07 10 00.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)	
11 SEPT (4)	iP	NE	07 20 04.0	210	
	i(S)	E	07 20 41.0		
	(5)	iP	N		15 57 44.0
	(6)	iP	Z		16 10 03.0
		iS	N		16 10 26.0
	(7)	LR	Z'		17 33 13.0
	(8)	iP	EZ		20 03 08.6
	12 SEPT (1)	iP	ZZ'		02 36 56.8
iS		NN'	37 13		
(2)		eiP	Z'	08 46 12	6.3 S, 151.6 E (CGS)
		eP	Z	46 12	
		iS	E'	50 55	
		LQ	N'	52 30	
		LR	Z'	54 02	
(3)		eX	Z	08 54 10	
(4)		iP	Z	17 03 52	
	i(S)	E'	04 18.5		
(5)	e(P)	Z	17 57 32.5		
	iS	NE	57 48.5		
(6)	e(P)	Z	18 01 07		
	iS	NE	01 12		
(7)	eX	NE	18 54 24		
(8)	iP	Z	18 59 52.5		
	i(S)	N	19 00 11.5		
(9)	iP	ZE'Z'	22 12 13	6.4S, 70.8 E (CGS)	
	ePPP	Z'	15 32		
	iS	N'E'	20 02		
	LR	Z'	29 49		
13 SEPT (1)	iP	Z	01 29 06.4	220	
	iS	NE	01 29 30.6		
	(2)	iP	Z		02 42 04.6

Date	Phase	Comp.	Time (GCT)	Distance (km)
13 SEPT				
(3)	iP	NE	03 22 09.6	
(4)	iP	E	03 32 55.4	160
	iS	N	03 33 13.0	
(5)	iP	Z	05 03 15.2	
(6)	iP	Z	06 46 36.0	190
	iS	N	06 46 57.4	
(7)	iP	Z	09 22 05.4	
	iS	E	09 22 09.0	
(8)	iP	Z	09 58 43.4	250
	iS	E	09 59 10.2	
(9)	eP	Z'	13 17 49.0	55.5 N, 165.7 E
	eS	Z'	13 25 51.0	(CGS)
	eX	Z'	13 32 21.0	
	LR	Z'	13 34 33.0	
(10)	iP	Z	16 08 23.4	
(11)	(iR)	Z'	17 25 08.0	
(12)	iP	E	19 17 46.4	190
	iS	E	19 18 07.2	
(13)	i(P)	N	19 19 15.0	
(14)	iP	Z	20 41 43.0	
14 SEPT				
(1)	iP	Z	00 00 43.6	140
	iS	E	00 00 59.2	6.5 N, 126.35 E
				Cotobato (MO)
(2)	e(P)	NEZ	03 49 24.5	
(3)	eX	NZ	08 07 55	
(4)	iP	ZZ'	08 27 50.5	8.4 N, 126.8 E
				(CGS)
(5)	iP	Z	09 56 50.8	310
	iS	N	57 24	
(6)	iP	Z	12 13 14.5	

Date	Phase	Comp.	Time (GCT)	Distance (km)
14 SEPT				
(7)	e(P)	NEZ	16 53 46	
(8)	i(P)	EZ	19 26 39.5	
	i(S)	N	27 10	
(9)	iP	NEZ Z'	21 54 49	120
	iS	E'	55 03	
	IR	Z'	55 28	
15 SEPT				
(1)	iP	ZZ'	08 08 04.6	250
	eS	E'	08 08 32.0	
(2)	iP	N	12 21 17.8	
(3)	iP	N	16 45 47.6	
(4)	iP	Z	17 48 41.6	240
	iS	Z	17 49 07.6	
(5)	iP	E	20 35 23.8	
(6)	iP	E	20 38 11.2	
	i(S)	E	20 39 35.2	
(7)	iP	E	20 42 19.6	
(8)	iP	Z	22 31 59.0	
	i(S)	E	22 33 31.2	
(9)	iP	Z	23 35 58.4	150
	iS	E	23 36 15.0	
16 SEPT				
(1)	iP	Z	00 50 55	
	i(S)	N	51 22	
(2)	iP	NEZ N'E'Z'	13 50 40.3	7.1 N, 126.5 E (CGS)
(3)	iP	EZ	19 10 01	
	iS	N	10 32.5	295
(4)	e(P)	Z	21 03 46	
(5)	e(P)	NEZ	21 26 53.5	

Date	Phase	Comp.	Time (GCT)	Distance (km)
16 SEPT (6)	eP	Z	23 53 30	90
	iS	E	53 41	
17 SEPT (1)	iP	N	01 03 10.4	
(2)	iP	E	03 24 11.8	350
	iS	E	03 24 48.2	
(3)	iP	Z	05 57 36.8	180
	iS	N	05 57 56.6	
(4)	iP	N	08 29 09.0	
(5)	iP	E	11 25 40.4	
(6)	e(PKP)	Z'	11 33 31.0	
	e(SS)	N'	11 57 22.0	
(7)	eX	N'	13 34 21.4	
	LR	Z'	13 38 47.0	
(8)	iP	N	14 08 39.2	
(9)	eX	E'	14 36 15.0	
	LR	Z'	14 39 46.0	
(10)	iP	NE	15 25 05.4	36.3 N, 141.2 E (CGS)
	eS	N'	15 30 15.0	
	LR	Z'	15 36 04.0	
(11)	eP	Z'	16 27 44.0	36.3 N, 141.1 E (CGS)
	eS	E'	16 32 56.0	
	LQ	E'	16 35 04.0	
	LR	Z'	16 37 01.0	
(12)	iP	E	17 36 13.2	
(13)	iP	E	17 50 07.6	
(14)	iP	Z	18 12 44.8	
(15)	iP	N	18 46 18.6	

Date	Phase	Comp.	Time (GOT)	Distance (km)	
17 SEPT (16)	iP	Z	18 50 49.0	300	
	iS	E	18 51 21.0		
	(17)	iP	Z	19 28 02.2	20
		iS	NE	19 28 07.2	
	(18)	eP	E	21 03 07.6	
		eX	E'	21 04 21.0	
		LR	Z'	21 05 11.4	
	(19)	iP	Z	21 14 43.6	
		e(S)	E	21 17 21.4	
	18 SEPT (1)	eX	Z	15 30 44.5	59.5 N, 145.1 W (CGS) 8.2 N, 126.8 E (CGS)
(2)		eP	Z	20 59 07	
		iS	E'	21 09 41	
(3)		iP	NEZ N'E'Z'	22 03 46.5	
(4)		iP	Z	22 28 09	
(5)		iP	Z	22 38 45.5	
(6)		iP	Z	22 57 48	
		eP	N	57 48	
(7)		iP	NZ	23 05 00	
(8)		iP	Z	23 18 22	
(9)	iP	Z	23 54 38		
19 SEPT (1)	iP	Z	00 23 42		
	(2)	e(P)	E		00 36 25.0
	(3)	eX	E'		01 46 18.0
		LR	Z'		02 03 11.0
(4)	iP	E	02 39 34.4		

Date	Phase	Comp.	Time (GCT)			Distance (km)
19 SEPT						
(5)	iP	E	02	44	38.0	
(6)	iP	N	03	10	10.6	
(7)	eP	Z'	04	14	54.0	240
	eS	N'	04	15	20.0	
(8)	iP	Z	05	31	02.8	270
	iS	E	05	31	31.4	
(9)	i(P)	Z	06	04	57.2	
	i(S)	Z	06	05	17.6	
(10)	iP	Z	06	33	04.0	
(11)	iP	Z	07	04	26.4	290
	iS	E	07	04	57.4	
(12)	iP	E	08	27	13.4	
	i(S)	E	08	27	30.4	
(13)	iP	Z	08	53	52.4	
(14)	iP	Z	09	40	31.6	240
	iS	E	09	40	57.6	
(15)	iP	E	11	08	46.4	
(16)	iP	Z	13	17	44.0	710
	eS	Z'	13	18	57.0	126.7 E, 13.55 N (MO)
(17)	iP	N	17	43	44.4	
(18)	iP	Z	21	49	02.6	
	iS	N	21	49	31.2	
(19)	iP	NE	23	51	11.0	
20 SEPT						
(1)	iP	Z	04	44	46.6	
(2)	iP	E	09	42	19.6	
(3)	iP	Z	09	46	50.2	
(4)	iP	Z	09	58	05.0	210 7.66 N, 137.4 E (MO)

Date	Phase	Comp.	Time (GCT)	Distance (km)	
20 SEPT	eP	Z'	09 58 05.0		
	iS	E	09 58 28.0		
	(5)	iP	E	10 52 35.0	
	(6)	iP	Z	11 00 28.6	
	(7)	iP	Z	11 03 11.4	
		eS	N'	11 04 21.0	
	(8)	iP	Z	12 31 47.2	
	(9)	iP	NE	13 20 35.2	
	(10)	iP	N	13 32 14.6	
	(11)	iP	E	15 38 24.2	
	(12)	iP	E	17 00 46.4	
	(13)	iP	E	17 07 44.6	
	(14)	iP	Z	17 13 07.0	12.1 N, 125.7 E (CGS)
		eS	E'	17 14 14.2	
		(LQ)	E'	17 14 56.0	
		LR	Z'	17 15 14.0	
	(15)	iP	N	19 48 26.6	
(16)	iP	NE	20 19 19.4		
(17)	eP	Z	21 18 26.2		
21 SEPT	(1)	iP	ZZ'	01 43 07.2	29.1 N, 128.2 E (CGS)
		iS	NE	47 02	
	(2)	i(S)	NE	03 20 20.5	
	(3)	eX	Z'	12 48 57	
		(LQ)	N'E'	52 50	
		(LR)	Z'	53 44	
	(4)	iP	Z	17 54 59.2	
		iX	Z	55 23.5	

Date	Phase	Comp.	Time (GCT)	Distance (km)
21 SEPT				
(5)	iP	Z	19 16 45	
	i(S)	NE	17 07.6	
	(LR)	Z'	17 14	
(6)	e(P)	Z.	19 34 06.2	
	iS	NN'	35 16	
	(LR)	Z'	35 52	
(7)	e(P)	Z	20 03 22	
	eX	Z	04 15	
22 SEPT				
(1)	iP	Z	00 05 25	
(2)	eP	Z	04 30 48.5	20.8 N, 99.3 E
	iS	E'	35 48.5	(CGS)
	LQ	N'	37 21	
	LR	Z'	39 05	
(3)	iP	ZN'E'Z'	09 38 19.5	1.3 S, 134.0 E
	iS	E'	40 49.1	(CGS)
	LR	Z'	42 52	
(4)	iP	ZZ'	11 41 00	240
	iS	E'	41 26	
(5)	i(S)	E'	12 59 36	
	(LR)	Z'	13 04 24	
(6)	eP	Z'	17 19 56.3	4570
	iS	E'	26 07	6.2 S, 164.78 E
	(LQ)	N'	30 04	(MO)
	LR	Z'	33 18	
(7)	iP	ZZ'	20 07 41.5	5.4 S, 151.5 E
	iS	E'	12 39.5	(CGS)
	LR	Z'	15 18.5	
(8)	iP	ZZ'	22 14 27	36.4 N, 141.3 E
	iS	E'	19 39	(CGS)
	LQ	E'	21 44	
	(LR)	Z'	25 27	
(9)	iP	Z	23 38 42	
23 SEPT				
(1)	eX	E'	01 00 23.0	
(2)	iP	Z	05 14 29.2	2040
	eP	Z'	05 14 29.2	

Date	Phase	Comp.	Time (SCT)	Distance (km)	
23 SEPT	eS	N'	05 17 49.0		
	(LQ)	E'	05 18 44.0		
	(3)	e(P)	Z'	09 31 20.0	
	eS	N'	09 34 05.0		
	LQ	N'E'	09 34 30.0		
	LR	Z'	09 35 28.0		
	(4)	1P	E	19 08 04.4	
	(5)	e(P)	Z'	19 10 34.0	
	e(S)	N'	19 12 54.0		
	24 SEPT	(1)	1P	Z	00 13 54.6
		1S	E	00 14 28.6	
(2)		1P	N	01 15 36.4	
(3)		1X	E	01 42 27.2	
(4)		1{P}	Z	01 52 35.0	
		1{S}	N	52 59.0	
(5)		eX	N'	03 39 47.6	
		LR	Z'	42 30	
(6)		1P	N	08 50 34.2	
(7)		1P	N	10 41 09.0	
(8)		eP	E	15 19 18.6	
(9)		1P	E	15 30 04.4	
(10)		1P	Z	18 51 28.2	450
		1S	N	52 15.4	
(11)	1P	E	19 34 23.6		
(12)	1P	Z	20 08 04.8	270	
	1S	E	08 34.2		
(13)	1P	Z	20 14 40.8	220	
	eS	E'	15 04.8		
(14)	1P	NE	20 50 23.2		

Date	Phase	Comp.	Time (GMT)	Distance (km)
24 SEPT	LR	Z'	54 55.2	
(15)	iP	E	23 25 24.4	
(16)	eP eS	Z' N'	23 58 18 00 02 25	13.1 N, 145.3 E (CGS)
25 SEPT				
(1)	i(P)	E	00 07 22.8	
(2)	e(P) iS LR	Z N Z'	02 27 12.6 27 44.8 28 00	
(3)	e(P)	N	06 23 02	
(4)	iP	Z	09 49 58.5	
(5)	eX iS (LQ) LR	Z E' E' Z'	14 45 30 49 59 53 09 54 47	
(6)	iP iX	Z Z'	15 42 40.5 42 46	
(7)	iP iS LR	Z' E' Z'	15 55 43 16 00 36 05 38	3310 5.0 S, 153.08 E (MO)
(8)	iP eP iS (LR)	N'E'Z' Z E Z'	16 56 47 56 47 17 00 45 03 44	12.9 N, 145.3 E (CGS)
(9)	e(P) i(S)	Z N	18 34 17 35 32	
(10)	eP	Z	19 44 22	
(11)	iP iS	Z N	20 04 06.5 04 36	275
(12)	e(P) (LR)	Z' Z'	21 20 24 22 32	
(13)	e(P)	Z	21 37 06	

Date	Phase	Comp.	Time (GCT)	Distance (km)
26 SEPT				
(1)	iX	E	03 35 23.5	
(2)	e(P) LR	N Z'	04 58 42 59 55	
(3)	eX	N	05 07 47	
(4)	i(P)	N	05 44 08.5	
(5)	e(P)	E	06 56 11	
(6)	i(P) i(S) (LR)	E N' Z'	13 11 46 12 59 13 25	
(7)	iP	E	13 22 21	
(8)	e(P) i(S) (LR)	Z' N' Z'	21 53 08 56 23 59 01	
27 SEPT				
(1)	iX	NE	02 29 44.6	
(2)	iP iS	Z N	03 59 12.8 59 38.6	240
(3)	iX iX (LR)	N'E' N' Z'	05 27 37 34 17 39 46	
(4)	iX	NE	07 11 27	
(5)	iX	N	09 12 25.5	
(6)	i(P)	Z	13 54 05	
(7)	iP eS (LQ)	Z E' E'	18 09 43 10 47 11 42	610 12.55 N, 126.9 E (MO)
(8)	i(P)	Z	18 29 35	
28 SEPT				
(1)	iP iS	Z E	04 38 53.2 04 39 11.6	160

Date	Phase	Comp.	Time (GCT)	Distance (km)
28 SEPT				
(2)	iX	E	05 12 20.6	
(3)	eP	Z'	05 17 16.0	7180
	eS	E'	05 25 52.0	
	LQ	N'E'	05 33 33.0	
	LR	Z'	05 37 54.0	
(4)	i(P)	N	06 53 14.4	
	iS	E	06 58 25.4	
(5)	iP	EZ	08 21 48.2	50
	iS	N	08 21 55.4	
(6)	iP	E	09 09 49.8	
(7)	i(P)	E	12 04 14.2	
	iS	E	12 04 39.2	
(8)	iP	E	16 54 52.6	
29 SEPT				
(1)	iP	Z	02 08 06.5	610
	iS	NE N'E'	09 10	
(2)	iX	NEZ	07 27 09.5	
(3)	iP	NEZ E'Z'	13 11 48.3	250
	iS	N'	12 15.8	
(4)	iP	Z	15 20 11	170
	iS	E	20 30	
(5)	i(P)	Z	15 54 28.5	
(6)	i(P)	E	23 46 38.5	
30 SEPT				
(1)	iP	E	15 36 30.2	
(2)	i(P)	E	19 13 34.2	
(3)	iP	Z	18 21 04.6	190
	iS	E	18 21 26.0	
(4)	iX	N	22 42 51.0	

OCT-DEC 65

DAVAO STATION
QUARTERLY SEISMOLOGICAL BULLETIN

MANILA OBSERVATORY
PHILIPPINES

DAVAO SEISMIC STATION

Davao, Philippines

Latitude	7° 8' 12'' N
Longitude	125° 36' 59'' E
Elevation	250 ft.

**Instruments: World-wide standardized seismographs
(USCGS)**

S. P.: Benioffs (designated as N, E, Z)

T₀ - 1.0 sec.

T₀ - 0.75 sec.

Magnification: usually 6,250

L. P.: Sprengnethers (designated as N', E', Z')

T₀ - 15 secs.

T₀ - 100 secs.

Magnification: usually 3,000

Day. October, 1965

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
1 OCT.					
1.	(LR)	00 28 15.0	Z'		
2.	iP	08 41 15.6	Z	1.2	0.78
	iS	41 40.8	E		
3.	eP	09 02 19.0	Z'	1.6	1.84
	eS	10 41.0	E'		
	LQ	17 39.0	N'		
	LR	20 53.0	Z'		
4.	iP	09 24 36.8	E		
5.	i(P)	13 18 09.6	Z		
	i(S)	13 18 43.2	N		
6.	iP	13 31 13.2	E		
7.	iP	13 38 11.0	E		
8.	iP	15 02 15.6	Z	0.6	0.35
	iS	15 02 29.8	N		
9.	i(P)	16 13 45.2	E		
	i(S)	16 14 34.6	E		
10.	iP	16 43 26.8	N		
2 OCT.					
1.	iP	02 41 30.0	Z	0.8	0.22
	iS	41 36.0	NE		
2.	iP	03 27 17.0	Z	0.7	0.93
	iS	27 37.0	NE		
3.	i(P)	08 37 23.8	Z		
4.	LR	08 45 56.0	Z'		
5.	iP	09 39 42.0	Z		
	i(S)	39 54.0	E		
6.	(LR)	20 04 24.0	Z'		
3 OCT.					
1.	iP	01 10 06.2	E		
2.	iP	06 13 44.0	Z	1.0	0.21
	iS	14 33.2	N		
	eX	15 16.0	N'		

Day. October, 1965

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
3 OCT.					
3.	iP	06 25 07.4	Z		
4.	iP	08 36 05.0	Z		
	i(S)	36 13.6	N		
5.	iP	10 04 35.0	Z	1.1	2.66
	eS	10 04 59.0	E'		
6.	iP	14 31 05.4	Z		
	i(S)	31 31.4	E		
7.	iP	14 54 35.0	Z	1.4	1.18
	eS	15 01 24.0	N'E'		
	LQ	06 05.0	N'		
	LR	09 02.0	Z'		
8.	iP	14 56 08.0	Z	0.6	1.51
	iS	56 20.0	NE		
9.	iX	14 59 23.0	N		
10.	iP	16 15 14.2	Z	0.8	0.24
	iS	15 36.4	NE		
11.	iP	16 18 06.6	Z		
	i(S)	18 49.0	E		
	e(S)	18 49.0	E'		
12.	eX	17 26 10.0	Z'		
13.	LR	18 18 50.0	Z'		
14.	iX	21 34 38.6	E		
4 OCT.					
1.	i(P)	00 19 03.4	Z		
	i(S)	19 45.2	N		
2.	eX	00 24 17.0	Z'		
3.	iX	00 42 51.8	Z		
4.	iP	01 50 22.0	Z	0.8	0.51
	iS	50 52.0	E'		
	(LR)	51 08.0	Z'		
5.	iP	06 24 08.0	Z		
6.	iP	09 36 10.0	Z	0.5	0.23
	iS	36 36.5	N		

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Date	Phase	Time (GMT)	Comp.	T _z (sec)	A _z (micron)
4 OCT.					
7.	i(P) iS	11 22 51.0 23 14.5	EZ N		
8.	iP iS	15 35 40.0 36 04.5	NEZ N	0.2	1.16
9.	iP iS	16 12 02.1 12 21.0	Z N		
5 OCT.					
1.	iP iS	00 56 02.0 56 16.0	Z E	1.3	1.20
2.	e(P)	01 35 10.0	Z		
3.	iP iS	06 03 54.0 04 00.0	Z N		
4.	iP iS	08 00 43.2 01 06.3	Z E	1.1	0.54
6 OCT.					
1.	iP iS	02 55 27.0 55 35.2	Z N	0.4	0.29
2.	i(P)	02 57 04.0	EZ		
3.	iP	08 21 36.6	N		
4.	iX	10 44 05.0	E		
5.	iP iS	11 06 15.9 06 41.6	Z E	0.9	0.27
6.	iP	13 52 37.6	E		
7.	iP	15 26 54.2	NE		
8.	i(P)	20 05 52.6	E		
9.	i(P)	20 21 14.0	N		
10.	eX	20 41 37.0	E		
11.	iX	20 42 22.4	N		
7 OCT.					
1.	iP iS LR	03 38 58.5 41 53.0 42 17.0	Z E' Z'	1.2	0.73

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
7 OCT.					
2.	i(P)	03 48 07.5	Z		
3.	iP	14 04 30.5	Z		
	iS	04 50.2	E		
4.	iP	23 55 30.0	Z		
	i(S)	55 59.5	E		
8 OCT.					
1.	iX	01 34 52.2	N		
2.	eX	03 48 25.0	N'		
3.	iP	04 15 16.2	Z		
4.	iP	05 01 10.6	E		
5.	iP	07 30 06.4	N		
6.	iX	07 32 45.4	N		
7.	iP	08 24 45.0	NE		
8.	i(P)	14 17 37.2	Z		
	i(S)	18 11.0	E		
9.	iP	14 41 28.2	Z		
	iS	14 42 26.2	E		
10.	iP	15 26 33.4	Z		
11.	iP	17 55 02.6	Z		
	i(S)	56 31.6	E		
	LR	56 51.0	Z'		
12.	eX	18 29 29.2	E		
13.	iP	18 45 36.2	Z		
14.	iP	20 40 14.2	Z		
9 OCT.					
1.	i(P)	06 13 07.5	Z		
2.	i(P)	12 07 37.0	NE		
3.	eX	13 36 54.0	N'		

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9 OCT.

4.	eP	18 49	25.5	Z	0.6	0.18
	iS	49 44.5		N		
5.	iP	19 50	31.0	Z		
	eX	51	25.0	N'		
	i(S)	51	45.5	N		
6.	i(P)	21 06	51.5	N		
7.	i(P)	22 16	00.5	N		

10 OCT.

1.	e(P)	02 39	04.5	Z	0.8	0.14
	iS	40 07.5		E		
2.	i(P)	03 08	53.8	Z	1.0	0.40
3.	eX	10 29	18.5	Z'		
4.	LR	18 23	54.0	Z'		
5.	e(P)	21 12	11.0	Z		
6.	iX	22 58	50.0	NE		
7.	e(P)	23 19	43.0	Z		

11 OCT.

1.	iP	04 37	31.8	N		
2.	iP	04 52	40.6	Z	0.8	5.37
	i(S)	04 53	06.7	N		
3.	i(P)	05 01	42.8	E		
4.	iP	05 04	53.0	Z	0.6	0.31
	iS	05 22.0		E		
5.	i(P)	05 14	30.4	E		
6.	iP	05 17	14.6	E		
	iS	17 38.8		N		
7.	iP	05 22	52.8	E		
	iS	23 18.2		NE		
8.	iP	05 32	58.2	Z	1.2	0.87
	iS	33 26.4		N		

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.....								
Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)	
.....								
11 OCT.								
9.	iP	05	35	35.4	Z	1.1	0.37	
	iS		36	02.8	N			
10.	iX	06	53	17.8	E			
11.	eP	06	56	52.0	Z'	0.6	1.22	
	iS		57	23.0	NE			
12.	iP	08	31	58.0	Z	1.0	0.51	
	eS		32	27.2	N'E'			
13.	eP	08	54	02.0	Z'	0.6	0.51	
	i(S)		54	31.1	N			
14.	iP	08	55	42.2	Z	0.8	1.02	
	iS		56	11.1	N			
15.	iX	09	10	28.4	E			
16.	iP	10	01	14.4	Z	0.4	0.35	
	iS		01	41.8	E			
17.	iP	10	05	43.4	Z'	1.1	3.85	
	eS		06	13.5	E'			
18.	iP	15	56	09.8	Z			
	i(S)		56	37.4	NE			
19.	iP	16	49	49.4	Z			
	i(S)		50	16.4	E			
20.	iP	20	07	04.6	Z	0.7	0.06	
	iS		07	37.2	N			
21.	iP	20	42	20.0	Z			
	i(S)		42	48.6	N			
22.	iX	21	19	44.4	E			
23.	iP	21	40	53.0	Z	0.8	0.74	
	iS		41	22.4	E			
24.	iP	22	37	17.0	Z			

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.....								
Date	Phase		Time (GMT)		Comp.	T_Z (sec)	Λ_Z (micron)	
.....								
11 OCT.								
25.	iP		22 42	19.4	Z			
	i(S)		42 42	49.4	E			
26.	iX		23 09	34.0	E			
12 OCT.								
1.	iP		00 36	35.5	Z			
2.	i(P)		06 31	43.5	Z			
3.	iP		13 53	06.0	Z	1.0	0.29	
	iS		14 03	04.0	N'E'			
	LQ		13 04	04.0	N'			
	LR		21 31	04.0	Z'			
4.	i(S)		15 32	45.0	NE			
5.	iP		18 57	38.0	Z	1.0	0.56	
	iS		59 03	03.0	N'			
6.	iP		23 53	50.5	NEZ	0.7	0.40	
	iS		54 50	50.0	EN'E'			
13 OCT.								
1.	i(P)		02 07	40.5	Z	1.0	0.30	
	iS		08 33	03.0	NE			
2.	iP		02 50	10.0	NZ	1.0	0.30	
	i(S)		50 33	03.0	E'			
3.	iP		04 23	42.0	NEZ, Z'	0.5	1.08	
	i(S)		24 10	05.0	E			
4.	iP		04 35	08.0	NEZ, Z'	0.5	1.42	
	iS		35 35	03.0	E, N'			
	LR		35 54	04.0	Z'			
5.	iP		05 03	28.0	NZ	0.5	0.62	
	iS		03 33	03.0	NE			
6.	iX		13 58	19.0	NE			
7.	eP		14 55	44.0	Z'			
	e(S)		15 03	26.2	N'E'			
	(LR)		12 37	03.0	Z'			

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.....							
Date	Phase	Time (GMT)			Comp.	T _Z (sec)	Δ _Z (micron)
.....							
13 OCT.							
3.	i(P)	21	25	09.0	Z		
	i(S)		25	29.0	E		
14 OCT.							
1.	iP	01	13	40.0	Z		
2.	iP	01	31	50.6	Z		
3.	eP	08	14	49.0	N' Z'		
4.	iX	11	04	13.6	E		
5.	iX	18	40	04.4	N		
6.	iX	20	55	10.6	E		
15 OCT.							
1.	LR	01	34	13.0	Z'		
2.	iP	06	48	21.5	Z	0.9	0.11
3.	LR	14	35	12.6	Z'		
4.	iP	17	02	04.6	Z	0.7	0.04
	iS		02	32.1	E		
5.	iP	18	44	03.0	Z	0.8	1.46
	iS		44	24.3	N		
6.	iP	18	57	05.5	Z	0.4	0.07
	iS		57	23.3	N		
7.	iP	19	03	02.0	Z	0.8	0.29
	iS		03	23.0	N		
8.	iP	21	00	54.4	Z	0.9	0.69
	iS		01	30.6	E'		
16 OCT.							
1.	eiP	02	41	24.2	Z	1.5	2.55
	iS		41	49.7	E		
2.	iP	03	20	09.0	Z	1.3	1.33
	iS		20	35.6	E'		

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16 OCT.

3.	iP	06	54	26.1	Z	1.1	0.77
	iS		54	54.3	E		
4.	iP	08	24	11.1	Z	1.0	12.00
	iS		25	09.0	E'		
5.	eIP	12	02	55.2	Z	1.0	0.18
6.	iP	12	27	21.2	Z	1.1	0.39
	iS		27	48.9	E		
7.	eP	15	02	36.3	Z	1.2	0.23
	i(S)		03	04.3	E		
8.	iP	18	14	54.0	Z	0.6	0.10
	iS		15	12.8	E		
9.	eP	20	11	45.8	Z	1.8	0.30
	e(S)		20	32.0	E'		
	LQ		25	46.0	N'		
	LR		28	05.6	Z'		
10.	eX	22	33	34.0	N'		
	LR		44	20.0	Z'		

17 OCT.

1.	iP	01	58	05.5	Z	0.9	0.11
2.	eP	02	00	18.0	Z'		
	eS		05	19.6	N'		
	e(SS)		08	02.4	E'		
	(LQ)		08	28.6	N'		
	LR		09	56.0	Z'		
3.	iP	03	53	22.5	Z	0.8	0.10
	iS		53	47.9	N		
4.	iP	04	59	14.3	Z	1.0	0.08
	iS		05	00	34.2		
5.	iP	08	15	55.5	Z	1.0	0.19
	i(S)		16	28.9	E		

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.....							
Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
.....							
17 OCT.							
6.	iP	15	00	29.0	E		
	i(S)		01	20.2	E		
7.	iP	16	24	08.1	Z	1.5	0.09
	iS		24	33.0	E		
8.	iP	17	08	05.8	Z	1.0	0.14
18 OCT.							
1.	iX	01	48	09.0	E		
2.	iP	02	43	02.0	Z	1.0	0.32
	e(S)		43	13.5	N		
3.	iX	02	45	41.6	N		
4.	iP	06	45	23.0	Z	1.2	0.11
	i(S)		45	48.5	E		
5.	iX	09	59	11.5	E		
6.	iX	10	57	02.0	N'		
7.	iX	12	05	33.5	E		
8.	eP	12	44	25.7	Z	1.5	0.30
9.	i(P)	20	22	39.0	E		
10.	i(P)	21	06	25.0	E		
11.	iP	21	52	08.0	Z	2.1	12.34
12.	iP	23	03	16.2	Z	2.0	0.96
19 OCT.							
1.	iP	04	42	04.8	Z	1.0	0.26
	eS		43	10.0	E'		
2.	eP	14	19	09.6	Z	2.2	1.03
	eS		21	34.0	N'		
3.	eP	20	58	51.5	Z	2.2	0.93
	eS	21	07	04.0	E'		
	eX		14	07.0	Z'		

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20 OCT.

1.	iP	02	45	54.6	Z	0.8	0.11
	e(S)		46	46.0	E'		
	LR		47	18.4	Z'		
2.	iP	03	06	57.9	Z	0.9	0.37
	iS		07	05.1	E		
3.	iP	04	12	47.5	Z	1.0	1.25
	iS		13	13.7	E		
4.	iP	07	26	38.6	Z	1.1	0.21
	iS		27	07.1	E		
5.	eiP	10	39	27.5	Z	1.8	1.96
6.	iP	11	19	47.4	Z	1.6	0.75
	iS		20	12.4	N		
	LR		20	28.0	Z'		
7.	LR	11	40	51.0	Z'		
8.	eiP	13	51	49.6	Z	0.5	0.31

21 OCT.

1.	iP	15	48	26.0	Z	0.8	0.34
	iS		48	46.7	E		
	LQ		48	48.6	E'		
2.	eP	21	19	29.3	Z	0.6	0.05

22 OCT.

1.	iX	01	57	51.0	Z		
2.	eP	02	08	11.6	E	0.8	1.02
	e(PcP)		10	03.8	N'		
	eX		14	26.0	E'		
	LR		15	38.0	Z'		
3.	iP	03	09	04.7	Z	0.8	1.02
	iS		10	10.9	NN'		
4.	iP	15	09	16.8	Z	1.0	0.56
	iS		09	37.8	E'		

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.....							
Date	Phase		Time (GMT)		Comp.	T _Z (sec)	A _Z (micron)
.....							
22 OCT.							
5.	iP	15	38	11.3	Z		
	i(S)		38	42.0	N		
6.	eX	20	48	10.0	Z'		
	LR		52	48.4	Z'		
23 OCT.							
1.	eP	08	34	32.0	N'E'Z'		
	eS		44	55.6	E'		
	eSS		52	55.6	E'		
	LQ	09	00	42.0	E'		
	LR		04	11.8	Z'		
2.	iP	18	39	37.1	Z	0.7	0.10
	i(S)		40	37.0	E		
24 OCT.							
1.	iP	00	55	11.2	Z	0.6	0.55
	iS		55	31.3	N		
2.	eP	04	29	58.0	Z	0.7	0.12
3.	i(P)	14	16	29.5	Z		
4.	iP	14	32	58.0	Z,N'Z'	0.8	9.14
5.	iP	18	23	56.0	Z	1.5	0.57
6.	e(?)	18	31	02.0	N'Z'		
	LR		38	36.0	Z'		
7.	e(?)	20	29	31.5	Z	1.2	0.57
	eX		29	42.0	Z		
	e(S)		32	09.0	N'		
	LR		33	11.5	Z'		
8.	iX	21	33	28.0	N		
25 OCT.							
1.	eP	00	22	09.0	E'Z'		
2.	eX	03	56	12.0	E'		
3.	eP	08	47	43.5	Z'		
	i(S)		55	10.0	N'		
	LR		09	05	02.0	Z'	

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Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
.....							
25 OCT.							
4.	iP iS	09	57	19.5	NEZ; Z'	1.0	5.28
			57	36.5	E, N'		
5.	i(P) e(S) (LR)	14	16	24.5	Z	0.8	0.15
			19	21.0	N'		
			21	13.0	Z'		
6.	iP	14	47	04.0	Z	0.6	0.20
7.	iX	14	55	31.0	NE		
8.	eX eX	15	57	53.0	Z'		
		16	04	09.0	N'		
9.	iX	17	23	42.0	Z		
10.	i(P) i(S)	17	48	10.2	Z		
			48	29.5	N		
11.	e(P) e(S) (LR)	18	04	47.5	Z'		
			14	19.0	E'		
			22	15.0	Z'		
12.	eX	22	24	37.5	E		
13.	iP iS	22	41	50.5	Z, Z'	1.8	4.27
			47	49.0	NE		
14.	iP iS	23	43	12.0	Z	1.1	0.58
			44	46.0	NE		
26 OCT.							
1.	iX	02	46	31.5	N		
2.	i(P)	04	33	33.0	Z	0.5	0.22
3.	i(P) i(S) LR	04	54	23.0	Z	0.7	0.21
			55	25.0	E		
			55	43.0	Z'		
4.	iX	06	59	10.5	NE		
5.	iX	09	04	12.0	NE		
6.	i(P)	10	04	34.5	Z	0.7	0.19

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.....							
Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)		
.....							
26 OCT.							
7.	i(P)	10 20 06.0	Z	0.7	0.29		
	iS	20 39.0	E,E'				
8.	i(P)	12 18 44.0	E				
	i(S)	19 15.0	N,E'				
9.	eX	12 22 09.5	N				
10.	eX	14 17 18.8	NE				
11.	i(P)	15 44 12.6	Z	0.6	0.11		
	iS	44 46.0	N				
12.	i(P)	16 39 12.0	Z				
	i(S)	39 34.0	E				
13.	iP	19 15 51.0	Z				
	iX	15 58.6	NE				
14.	(LR)	20 40 00.0	Z'				
15.	iP	23 14 58.0	Z,N'E'Z'	0.9	12.67		
	i(S)	15 12.0	N'E'				
27 OCT.							
1.	iP	09 58 18.2	Z	0.9	0.20		
	iS	58 43.0	E				
2.	i(P)	12 15 07.0	Z	0.6	0.35		
	iS	15 15.5	N,N'				
	LR	15 19.0	Z'				
3.	eX	15 10 25.2	E				
4.	iP	15 42 28.7	NZ,N'Z'	0.8	1.26		
	iS	43 35.5	E'				
5.	iX	21 57 05.0	Z				
6.	eX	22 57 02.0	Z'				
28 OCT.							
1.	iP	01 11 48.3	Z	0.8	0.25		
	iS	11 58.5	E				

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 Date : Phase : Time (GMT) : Comp. : T_Z(sec) : A_Z(micron)

28 OCT.

2.	iX	01 23	19.0	E		
3.	iX	02 37	02.0	E		
4.	e(P)	04 49	23.0	E		
	i(S)	49 52	0	N		
5.	e(P)	05 53	44.0	Z'		
	e(S)	06 01	20.0	N'		
	(LR)	10 14	0	Z'		
6.	eP	09 00	28.0	Z'	0.7	0.24
	eS	02 19	0	E'		
	(LR)	03 52	0	Z'		
7.	i(S)	11 56	59.5	E		
8.	i(P)	14 24	34.0	EZ	0.8	0.19
	i(S)	25 53	0	E		
	LR	26 16	0	Z'		
9.	i(P)	14 33	21.5	E		
	iS	33 55	2	E		

30 OCT.

1.	eP	07 08	19.0	Z'		
	eS	17 08	0	E'		
	eSS	22 06	0	N'		
2.	LQ	07 25	28.0	N'		
	LR	29 05	0	Z'		
3.	eP	08 06	49.5	Z	1.2	0.57
4.	i(P)	18 24	42.0	Z		
	iS	25 05	0	E		
5.	eP	19 26	58.0	Z	1.1	0.48
6.	eP	19 43	19.5	Z'		
	eS	51 11	0	E'		
	LQ	57 53	0	N'		
	LR	20 00	02.0	Z'		

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.....
 Date : Phase : Time (GMT) : Comp. : T_Z(sec) : A_Z(micron)

30 OCT.

7. eX 20 24 35.0 NE
 8. e(P) 21 04 05.5 N
 iS 04 15.0 N

31 OCT.

1. eX 00 23 51.0 N
 2. iP 02 52 54.5 Z 0.8 0.40
 iS 53 43.0 E'
 (LR) 54 06.0 Z'
 3. iP 03 53 18.2 Z, Z' 1.0 0.10
 i(S) 58 19.0 E'
 LR 04 01 10.0 Z'
 4. eX 06 50 19.0 Z'
 5. iP 12 11 50.0 Z 0.07
 iS 12 13.5 N
 6. eX 15 14 13.0 Z'
 eX 22 46.0 E'
 LR 33 51.0 Z'
 7. e(P) 15 50 48.0 Z
 8. eP 17 31 13.8 Z, Z' 1.0 0.08
 e(PP) 32 45.0 Z'
 eS 36 54.0 N'E'
 LQ 39 14.0 N'E'
 (LR) 40 42.0 Z'
 9. LR 19 55 10.0 Z'
 10. eP 21 08 33.2 E

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1 NOV.

1.	eP	14 17	40.5	Z	1.0	0.40
2.	iP	18 12	28.3	Z, Z'	0.8	0.43
	eX	21	36.0	N'		
	eX	24	16.0	E'		
	(LR)	29	14.0	Z'		
3.	i(P)	18 51	05.0	Z		
	i(S)	52	13.2	N		
4.	i(P)	19 37	21.0	Z	0.5	0.13
	iS	37	54.5	NE		
	(LR)	38	12.0	Z'		
5.	iP	21 56	41.0	Z	0.5	0.05
6.	i(P)	22 46	13.0	Z	0.5	0.06
7.	eX	22 57	29.0	N'		

2 NOV.

1.	i(P)	14 40	04.6	NE		
2.	i(P)	15 27	02.0	Z	0.5	0.06
	i(S)	27	48.0	E		
3.	eP	15 53	07.0	Z, Z'	0.9	0.09
	e(S)	56	35.0	E'		
	(LR)	58	28.0	Z'		
4.	iP	19 42	56.9	Z	1.0	0.19
	e(S)	43	23.2	N'		
	(LQ)	43	46.5	N'		
	(LR)	43	53.0	Z'		
5.	eiP	19 59	39.9	Z	1.0	0.70
	i(S)	59	59.0	E'		
	(LR)	20 00	20.0	Z'		
6.	eP	20 04	38.0	Z	1.0	0.10
	iS	05	04.5	N		
7.	iX	23 33	43.2	Z		

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3 NOV.

1.	iP	01 58	00.5	Z'	0.9	0.40
	iS	02 08	32.0	E'		
	(LQ)	15	49.0	E'		
	LR	23	03.0	Z'		
2.	iP	03 33	07.2	Z	0.7	0.33
	iS	33	35.0	N		
3.	eX	07 40	36.0	Z'		
4.	i(P)	09 19	49.0	Z	0.8	0.25
	iS	19	54.0	N		
5.	i(P)	11 30	03.5	Z	0.9	0.11
6.	iP	16 43	43.0	Z, Z'	1.0	0.75
	iS	45	51.0	E'		
	LR	46	31.0	Z'		
7.	e(P)	18 51	33.0	Z'		
	eX	19 11	44.0	N'		
	LR	17	16.0	Z'		

4 NOV.

1.	iP	10 20	49.8	E		
	iS	20	56.5	E		
2.	i(P)	10 24	31.0	Z	0.6	0.18
	i(S)	24	45.0	N		
3.	eiP	11 29	53.1	Z	1.0	0.64
	i(S)	31	19.0	E'		
	(LR)	32	09.0	Z'		
4.	iP	15 40	52.8	Z, Z'	1.7	4.57
	i(S)	41	36.5	N'		
5.	eiP	16 23	08.8	Z	1.0	0.30
	iS	24	31.5	E'		
6.	iP	17 01	29.5	Z	1.2	0.16
	iS	02	54.0	E'		
7.	i(P)	21 33	59.6	Z	0.7	0.09
	i(S)	34	27.2	E		
8.	i(P)	23 56	24.5	E		

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5 NOV.

1.	eX	10 59	34.5	Z'		
	eX	11 04	05.0	Z'		
	LR	08 14.0	Z'			
2.	eX	15 08	06.0	Z'		
	eX	12 18.0	Z'			
3.	iP	17 49	49.1	Z	0.5	0.41
	i(S)	50 10.0	E			
4.	iP	19 05	46.0	Z, Z'	1.7	0.51
	iS	09 53.0	E'			
5.	(LR)	22 15	30	Z'		

6 NOV.

1.	iP	03 28	46.8	Z	0.7	2.17
	iS	29 27.0	E			
2.	iP	03 38	57.3	Z	0.8	0.57
3.	iX	04 04	05.8	NE		
4.	iX	06 10	56.5	E		
5.	eP	09 02	58.0	Z'		
	iS	08 23.5	E'			
6.	e(P)	18 34	59.6	Z	0.6	0.10
	iS	35 17.0	E			
7.	iP	22 21	50.0	Z, Z'	0.8	2.29
	iS	22 01.5	NE			

7 NOV.

1.	iX	03 59	01.0	E		
2.	iX	04 14	25.0	N		
3.	iP	04 18	10.8	Z	0.5	0.20
	i(S)	18 37.5	E			

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Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
.....							
7 NOV.							
4.	iP	06	59	54.4	Z	1.1	0.60
	iS	07	00	15.5	E		
5.	iX	19	17	24.5	N		
6.	iP	23	51	41.5	Z	0.8	0.43
8 NOV.							
1.	e(P)	05	32	31.8	E		
2.	eP	07	52	39.0	EZ	0.8	0.43
3.	iP	13	19	37.5	Z	0.8	0.41
	iS		20	45.0	E		
9 NOV.							
1.	iP	02	42	23.8	Z	0.9	1.47
	iS		42	45.6	E		
2.	iX	06	40	44.5	NE		
3.	iP	09	20	05.7	Z	1.0	1.22
	iS		20	28.4	N		
4.	iP	11	55	02.8	Z	0.6	0.20
	iS		55	25.0	E		
5.	i(P)	21	02	28.0	Z		
	iS		02	47.5	N		
10 NOV.							
1.	iP	00	21	53.2	Z	1.0	0.25
	iS		22	11.5	N		
2.	i(P)	02	15	04.5	Z	0.7	0.25
	iS		15	27.0	E		
3.	iP	18	28	05.8	Z	1.0	0.45
	iS		28	32.8	N		
4.	iX	22	27	46.0	NE		
5.	iP	23	28	42.3	Z	1.0	0.58
	iS		28	57.0	E		

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11 NOV.

1.	e(P)	01	42	25.0	Z'		
	e(S)		49	36.0	E'		
	(LR)		59	39.0	Z'		
2.	e(P)	03	02	41.5	Z'		
	e(S)		12	24.0	E		
	(LR)		26	24.0	Z'		
3.	e(P)	05	17	22.0	Z'		
	e(S)		24	19.0	N'		
	LR		32	49.0	Z'		
4.	e(P)	17	12	24.0	Z'		
	e(S)		23	10.0	N'E'		
	(LR)		36	23.0	Z'		
5.	iP	17	17	46.5	Z	0.3	0.36
	iS		18	09.5	N		
6.	iX	21	44	14.5	NE		
7.	eX	23	10	16.0	Z'		
	(LR)		22	06.0	Z'		

12 NOV.

1.	e(P)	02	32	34.0	Z'		
	eX		49	34.0	E'		
	LR		56	18.0	Z'		
2.	i(P)	03	32	22.0	Z	1.0	0.42
	iS		33	29.5	E'		
	LR		34	05.5	Z'		
3.	iP	03	53	20.5	Z	0.8	0.51
4.	iP	12	13	37.0	Z	0.5	0.19
	iS		14	06.0	N		
5.	iP	14	42	16.5	Z	0.5	1.24
	iS		42	34.8	E		
6.	eP	17	19	57.0	Z	1.2	0.37
	i(S)		24	40.0	N'		
7.	iP	17	58	08.0	Z	2.0	3.20

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13 NOV.

1.	iP	04 42	40.5	Z	1.0	1.60
	i(S)	49	29.0	N'		
	(LR)	59	14.0	Z'		
2.	iX	08 04	49.5	N		
3.	(LR)	11 23	24.0	Z'		
4.	iP	14 47	41.8	Z,Z'	1.4	2.88
	iS	48	15.5	E'		
5.	e(P)	18 19	32.0	Z'		
6.	(LR)	19 15	20.0	Z'		
7.	i(P)	23 08	16.0	Z		
	i(S)	08	24.0	NE		

14 NOV.

1.	eX	06 08	12.0	N'		
	(LR)	10	16.0	Z'		
2.	iP	10 24	37.2	Z	0.7	0.15
	iS	25	08.0	E		
3.	(LQ)	16 06	05.0	N'		
	(LR)	09	43.5	Z'		
4.	(LQ)	16 14	10.0	N'		
	(LR)	16	53.0	Z'		
5.	(LQ)	16 22	06.5	N'		
	(LR)	25	06.0	Z'		
6.	(LQ)	16 28	28.0	N'		
	(LR)	41	31.0	Z'		
7.	iP	16 34	44.5	Z	0.5	0.10
	iS	34	50.5	E		
8.	iP	20 26	31.8	Z		

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15 NOV.

1.	i(P)	03 53	52.0	NE		
2.	iP	08 51	31.0	Z	0.8	0.48
	iS	51 52.0		E		
3.	eP	11 38	20.3	Z'		
4.	e(P)	12 11	19.0	E		
5.	(LR)	12 30	44.0	Z'		
6.	e(P)	13 49	36.5	E		
7.	iP	19 12	00.7	Z	0.6	0.53
	iS	12 27.0		E		
8.	e(P)	20 49	44.0	Z	0.8	0.13
9.	eX	20 54	26.0	Z'		

16 NOV.

1.	i(P)	01 13	26.5	NE		
2.	i(P)	01 35	16.0	E		
3.	iP	03 49	19.0	Z	0.8	0.91
	iS	49 35.5		NE		
4.	iX	05 35	54.5	NE		
5.	iX	05 53	24.6	N		
	iX	54 45.0		E'		
6.	iP	06 46	23.5	Z		
7.	eP	15 44	12.0	Z'		
8.	LR	16 39	57.0	Z'		
9.	iP	16 56	21.5	Z	0.5	0.57
	iS	56 41.9		N		
10.	eiP	17 09	47.2	Z, Z'	0.9	0.53
	iS	13 24.0		E'		
11.	iP	21 19	20.6	Z	0.8	0.80
	iS	19 26.0		N'E'		

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17 NOV.

1.	iP	02 34	42.3	Z	1.0	0.48
	iS		02.0	E		
2.	i(P)	04 12	17.3	N		
3.	iX	06 24	25.0	NE		
4.	iP	09 22	39.0	Z, Z'	0.5	0.60
	iS		58.0	N		
5.	i(P)	17 31	38.8	Z	0.9	0.27
	i(S)		04.0	E		
6.	iX	17 50	26.0	Z		
	iX		21.5	N'		
7.	i(P)	20 21	06.0	Z		
8.	iP	21 29	27.2	Z	0.7	0.21
	iS		32.5	E		
9.	i(P)	22 41	56.2	Z		
	iS		05.5	E		
10.	iX	23 34	01.0	E		

18 NOV.

1.	i(P)	03 24	22.5	E		
	i(S)		25 13.0	N'		
	(LR)		25 28.0	Z'		
2.	eX	07 26	53.0	E		
3.	iP	10 34	26.6	Z	0.8	0.40
4.	iP	17 20	43.6	Z, N' Z'	1.0	0.64
	iS		23 35.2	N		
5.	iP	19 33	52.0	Z	1.0	0.40
	iS		34 22.5	N		
6.	iP	20 09	55.0	Z, Z'	1.0	1.09
	iS		17 44.5	E'		

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Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
.....							
18 NOV.							
7.	eP	22	07	44.0	Z	1.0	0.48
	iS		15	23.0	N'E'		
	LR		24	13.0	Z'		
8.	iX	23	18	45.0	E		
19 NOV.							
1.	iP	03	33	37.5	Z	1.0	0.40
	iS		34	48.0	E'		
2.	eP	07	18	51.0	Z'		
	eS		27	57.0	E'		
	LR		39	31.5	Z'		
3.	iX	08	42	29.5	N		
4.	iP	10	22	13.0	Z	0.7	0.88
	iS		22	34.4	E		
5.	iP	10	50	39.5	Z	0.7	0.21
	iS		51	01.0	E		
6.	iP	14	30	58.5	Z	1.0	1.44
	iS		31	30.0	E		
7.	eP	22	35	08.0	Z'	1.9	0.77
20 NOV.							
1.	eX	04	17	55.5	Z'		
	LR		23	11.0	Z'		
2.	iP	06	58	31.0	Z'	1.0	0.56
	e(S)	07	04	00.0	E'		
	LR		05	32.0	Z'		
3.	iP	09	20	44.2	Z	0.8	0.22
	i(S)		22	44.0	Z		
	(LR)		24	21.0	Z'		
4.	eP	10	02	51.0	Z'		
	e(S)		07	47.0	E'		
	(LQ)		10	12.0	N'		
	LR		11	34.0	Z'		

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Date	Phase	Time (GMT)		Comp.	T_z (sec)	A_z (micron)	
.....							
20 NOV.							
5.	(LR)	11	56	51.0	Z'		
6.	e(P)	15	03	05.5	Z	1.4	0.16
	iS		03	24.5	E		
7.	eP	15	09	04.4	Z, Z'	2.0	8.40
	i(S)		11	54.0	Z'		
	e(PKP)		21	09.0	E		
8.	eP	16	11	46.5	Z	1.0	0.42
9.	iP	17	24	59.5	Z	0.8	2.34
	eS		25	16.8	E		
10.	iP	18	35	10.0	Z	1.4	3.14
	iS		36	00.0	E		
11.	iX	19	17	19.8	N		
21 NOV.							
1.	iX	03	39	26.0	E		
2.	iX	05	03	21.5	N		
3.	iP	10	50	10.0	Z, N' Z'	2.2	17.04
	iS		53	00.0	E		
4.	iS	19	24	07.0	NE		
22 NOV.							
1.	iP	02	55	52.6	Z	1.2	0.25
2.	iP	07	13	29.5	Z	1.1	0.48
	iS		13	55.0	N		
3.	i(P)	11	28	05.5	Z	0.7	0.15
4.	iX	17	39	13.8	E		
5.	eX	20	35	57.0	Z		
23 NOV.							
1.	iP	03	00	38.3	Z	0.7	0.15
	i(S)		01	14.0	NE		
2.	iX	08	43	04.0	E		

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23 NOV.

3.	iP	13 01	41.9	Z	1.2	0.46
	iS.	02	37.0	N		
4.	iP	16 35	56.1	Z	1.4	0.90
5.	iS	16 42	14.6	NE		
6.	iX	20 10	12.0	E		
7.	iP	21 41	13.8	Z	0.6	0.20

24 NOV.

1.	i(P)	07 23	21.5	E		
2.	i(P)	12 41	27.0	N		
3.	iP	18 14	14.0	Z	0.5	0.11

25 NOV.

1.	iP	18 15	01.8	Z	0.5	1.14
	iS	15	29.0	NE		
2.	iP	21 12	31.2	Z		
	iS	12	43.0	E		
3.	i(P)	22 04	10.2	Z	1.0	0.16
4.	iX	22 40	49.5	Z		

26 NOV.

1.	iX	04 45	05.0	NE		
2.	iX	05 54	56.0	NE		
3.	iP	09 03	05.3	Z	1.0	0.96
	iS	03	21.5	NE		
4.	iP	13 40	55.5	Z	0.8	0.17
	iS	41	07.0	E		
5.	iX	17 27	10.5	E		
6.	iS	18 27	21.0	E		
7.	iP	19 43	40.8	Z	1.2	0.46
	iS	43	59.0	N		

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27 NOV.

1.	iX	01 36	04.5	E		
2.	iP	01 43	31.4	Z	1.0	0.40
3.	iP	03 10	04.6	Z	1.2	0.46
	e(S)	14	53.0	E'		
	eX	15	58.0	N'		
4.	iP	06 14	23.8	E		
	iS	14	45.2	NE		
5.	eP	12 09	08.5	Z'		
	e(S)	17	43.0	E'		
	LQ	21	35.0	E'		
	LR	24	23.0	Z'		
6.	iP	12 31	16.5	NE		
7.	iS	15 59	28.5	NE		
8.	iP	17 27	16.8	E		
	iS	27	33.5	NE		
9.	iX	21 13	51.5	E		
10.	iS	22 48	34.2	N		

28 NOV.

1.	eX	05 02	15.0	Z'		
2.	(LR)	06 03	14.0	Z'		
3.	iP	18 59	06.2	Z		
	iS	59	21.5	E		
4.	eP	19 01	07.0	Z'		
	e(S)	04	05.0	N		
	(LR)	06	27.0	Z'		
5.	iP	21 37	09.0	Z	1.3	2.00
	(LR)	42	23.0	Z'		

29 NOV.

1.	i(P)	07 59	56.5	E		
2.	iP	10 22	36.0	Z	1.0	0.63
	iS	23	31.5	N, E'		

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.....

29 NOV.

3.	iP	13 49	04.2	Z	1.5	6.02
	iS	50	26.0	E'		
4.	iP	15 10	16.5	Z	1.0	0.24
	iS	10	42.0	N		
5.	iX	22 04	40.0	NE		

30 NOV.

1.	iX	18 59	06.0	E		
2.	iX	20 09	16.5	N		
3.	iX	23 27	05.5	N		

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1 DEC.

1.	iX	02 20	11.2	N		
2.	iX	06 21	18.0	E		
3.	i(P) iS	08 14 14 14	19.5 38.5	E NE		
4.	iX	09 10	12.2	N		
5.	i(S)	14 41	19.5	E		
6.	eX eX	17 33 43 43	50.0 46.5	E' Z'		
7.	eX	20 28	51.5	E		

2 DEC.

1.	iP iS	02 04 04 04	43.0 56.2	Z E	0.8	0.40
2.	eX	02 56	34.0	Z'		
3.	eX	04 37	34.0	N		
4.	iX	13 31	06.2	Z		
5.	iP iS	15 22 23 23	51.0 11.5	Z E'	1.0	0.48
6.	i(P) i(S)	19 01 01 01	28.2 51.0	Z E		

3 DEC.

1.	iP iS	01 20 20 20	37.5 59.0	Z N	0.7	1.13
2.	iP iS	01 24 25 25	51.0 11.0	Z E,N'	0.7	1.98
3.	e(P) eX (LR)	06 55 07 12 17 17	48.0 21.0 15.0	Z' N' Z'		
4.	iX	09 05	32.0	E		
5.	iX	14 37	51.8	E		
6.	iS	15 03	51.8	E		

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3 DEC.

7.	eX	15 39	33.0	E'		
	eX	46	15.0	E'		
	(LR)	50	00.0	Z'		
8.	iX	18 39	46.0	N		
9.	i(P)	19 53	53.7	Z	0.8	0.11
10.	iX	20 39	40.5	Z		
11.	i(P)	20 59	29.0	Z		
	iS	59	46.8	NE		
12.	eX	21 13	08.0	E'		
	LR	23	04.0	Z'		
13.	iX	21 27	43.0	E		
14.	iX	22 39	10.5	N		
15.	iX	22 44	45.5	N		

4 DEC.

1.	iX	02 22	54.0	E		
2.	eX	04 27	39.0	Z		
3.	eX	06 14	29.0	N		
4.	iP	16 03	57.5	Z	0.8	0.15
	iS	04	13.5	N		
5.	iX	16 32	33.5	Z		
6.	iS	16 45	15.8	NE		
7.	iS	18 29	25.8	E		
8.	iX	20 33	48.8	Z		

5 DEC.

1.	iP	06 30	19.0	Z	0.8	2.68
	iS	30	39.5	E,N'		
2.	iP	06 33	46.5	Z	0.8	1.60
	iS	34	08.5	NEZ		
3.	eX	07 33	32.0	NE		

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5 DEC.

4.	iP iS	09 09 09 45.5	31.6 45.5	Z E	0.9	1.33
5.	iP iS	09 15 15 33.0	11.0 33.0	Z NE	0.5	0.46
6.	iX	09 31	46.0	NE		
7.	iX	09 47	54.5	E		
8.	iX	10 24	09.0	NE		
9.	iX	10 29	36.0	E		
10.	eX	11 15	13.0	E		
11.	iX	11 22	31.0	E		
12.	iX	12 47	38.0	E		
13.	iP iS	13 03 03 31.5	08.9 31.5	Z E	0.5	0.88
14.	eiP iS	13 25 25 44.5	22.0 44.5	Z E	0.7	0.46
15.	iP eX	16 29 38 06.0	28.0 06.0	Z E'	0.5	0.22
16.	eP e(S) (LO) (LR)	18 24 33 02.0 39 52.0 42 19.5	52.5 02.0 52.0 19.5	Z E' N' Z'	1.0	0.16
17.	eX	22 45	43.0	N'		

6 DEC.

1.	iX	06 50	26.0	NE		
2.	eX (LQ) (LR)	12 17 25 09.0 30 43.0	45.0 09.0 43.0	E' N' Z'		
3.	i(P) i(S)	14 24 25 24.0	46.0 24.0	E N		
4.	i(P)	16 46	21.0	N		
5.	iP	18 45	13.0	Z	1.0	0.16

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6 DEC.

6.	eX	19 32	43.0	N'		
	LR	38	20.0	Z'		
7.	iP	21 09	31.5	Z	0.8	0.11

7 DEC.

1.	i(P)	06 59	16.0	E		
	i(S)	59	37.2	E		
2.	iP	11 46	51.0	E		
3.	iX	15 00	26.5	N		
4.	iX	16 25	13.5	NEZ		
5.	iX	16 38	31.0	N		
6.	iP	16 46	36.0	Z	0.9	0.11
	iS	46	55.5	N		
7.	i(P)	22 24	27.0	Z, Z'	2.0	3.20
	i(S)	29	31.0	N'		

8 DEC.

1.	iX	03 01	42.5	E		
2.	iP	03 50	16.0	Z	0.8	0.63
	iS	50	39.0	E		
3.	iX	06 46	40.0	N		
4.	eX	08 37	43.5	E		
5.	iP	12 55	10.8	Z	0.5	0.10
6.	eP	18 15	51.5	Z'	1.5	3.81
7.	i(P)	20 18	54.5	Z		
	i(S)	19	12.9	N		

9 DEC.

1.	iX	05 31	29.0	N		
2.	e(P)	06 28	54.0	Z'		
	eX	46	23.0	N'		
3.	iP	13 10	50.5	Z	0.8	0.23
	i(S)	11	16.0	E		

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9 DEC.					
4.	eX	13 22 12.0	NE		
5.	eX	13 24 09.0	Z'		
6.	iX	19 57 56.8	NE		
7.	iX	20 33 28.8	Z		
10 DEC.					
1.	i(P)	00 01 42.5	E		
	iS	01 52.5	E		
2.	iX	13 24 10.0	Z		
3.	i(P)	14 22 17.0	N		
4.	iP	17 04 37.2	Z	0.8	0.33
	iS	05 02.0	NE		
5.	iX	17 10 16.0	E		
6.	iX	18 30 19.0	E		
7.	eiP	18 40 31.5	Z	0.8	0.85
	iS	40 58.0	NE		
8.	iX	20 34 28.5	E		
9.	eP	22 01 25.0	Z'		
	eS	07 56.0	E'		
	L ⁰	12 18.0	N'		
	LR	14 37.0	Z'		
11 DEC.					
1.	iX	02 06 24.0	E		
2.	iP	04 02 35.2	Z	0.8	0.80
	iS	02 58.0	E		
3.	iP	05 06 08.5	Z	0.9	0.15
	i(S)	06 29.0	NE		
4.	i(P)	12 07 13.0	Z	1.0	0.16
5.	iX	20 40 05.5	Z		
6.	(LR)	23 12 06.0	Z'		
7.	iS	23 19 49.5	NE		

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12 DEC.

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
12 DEC.					
1.	iX	04 01 47.0	E		
2.	iP	05 23 11.5	Z	0.6	2.15
	iS	23 16.5	E'		
3.	eX	07 51 33.0	Z'		
4.	iX	09 33 19.5	E		
5.	iX	10 01 11.5	E		
6.	iX	13 12 17.0	E		
7.	iX	14 39 39.5	E		
8.	eX	17 13 09.0	Z'		
9.	iX	17 16 28.0	E		
10.	iX	21 10 43.5	E		
11.	i(P)	21 49 21.0	Z		
	i(S)	49 54.0	N'		

13 DEC.

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
13 DEC.					
1.	iX	02 02 13.0	NE		
2.	e(P)	03 48 25.0	Z'		
	eX	54 48.0	Z'		
3.	eX	06 00 10.0	N'		
	eX	03 39.0	N'		
	(LR)	11 11.0	Z'		
4.	iS	07 36 43.5	NE		
5.	eP	11 00 09.0	Z'		
	eX	06 43.0	E'		
6.	i(P)	13 19 23.5	E		
	iS	19 48.5	NE		
7.	eP	14 54 18.0	Z'	1.0	0.37
	e(S)	15 00 45.0	E'		
	(LQ)	04 35.0	N'		
8.	iX	22 54 19.0	E		
9.	eX	22 56 04.0	N'		
	(LR)	23 02 06.0	Z'		

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
13 DEC.					
10.	(LR)	23 22 14.0	Z'		
14 DEC.					
1.	iS	01 48 51.5	NE		
2.	iS	05 44 57.8	NE		
3.	iX	08 03 06.0	N		
4.	iP iS	09 41 57.0 42 19.0	Z E,N'E'	1.0	1.29
5.	iP iS	12 33 47.5 34 10.9	Z E	0.7	0.18
6.	iP iS	17 21 17.5 21 39.0	Z N	1.0	0.14
7.	iX	17 43 49.9	N		
15 DEC.					
1.	iP i(S)	06 56 09.0 56 22.5	Z N	0.9	0.26
2.	iP iS	08 07 01.2 07 31.0	Z E,N'E'	0.7	0.57
3.	iP iS	08 24 07.5 25 31.0	Z,Z' N'	1.0	2.72
4.	iP iS	09 08 01.0 09 25.0	Z N'	0.8	0.69
5.	iX	10 46 57.5	Z		
6.	eX	10 47 09.0	Z'		
7.	eX eX (LR)	12 33 46.0 47 14.0 57 17.0	N' E' Z'		
8.	iX	15 26 44.5	NE		
9.	iX	17 11 27.0	NE		
10.	iP	19 26 29.0	Z	0.7	0.11
11.	eX	20 07 33.0	Z'		
12.	iP	21 44 41.0	Z	0.8	0.17

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)		
.....							
15 DEC.							
13.	iP	22 01 49.5	Z	1.0	0.32		
14.	iP	23 25 07.0	Z'	2.0	2.40		
16 DEC.							
1.	i(P)	02 58 21.5	N				
	iS	58 27.0	E				
2.	iX	07 43 38.0	Z				
3.	eX (LR)	10 33 31.0	E'				
		36 48.0	Z'				
4.	iP	12 28 20.0	E				
5.	iX	14 57 54.0	E				
6.	iX	16 57 48.5	E				
7.	iX	17 58 10.5	N				
8.	e(P)	18 55 08.0	Z				
	i(S)	55 33.0	E				
9.	eiP	20 10 40.5	Z	1.0	0.48		
10.	eX	22 23 29.0	E'				
17 DEC.							
1.	iP	03 47 17.3	Z	0.9	0.37		
	iS	47 59.5	N				
2.	iX	07 34 20.5	E				
3.	iX	10 21 24.5	E				
4.	iP	13 32 05.8	Z	0.9	1.47		
	iS	32 27.0	E				
5.	iX	16 15 20.5	Z				
6.	iX	19 45 06.0	E				
7.	iX	21 36 54.5	E				
18 DEC.							
1.	iS	10 47 15.0	N				
2.	eX	13 44 15.0	Z'				
3.	i(P)	20 06 03.5	Z				
	iS	06 28.5	N				

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Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
.....							
18 DEC.							
4.	i(P)	20	41	58.0	Z		
19 DEC.							
1.	i(P)	03	35	40.8	E		
2.	iX	03	41	10.5	Z		
3.	iX	04	40	45.0	N		
4.	i(S)	05	57	55.5	NEZ		
5.	e(P)	17	28	09.0	Z		
6.	i(P)	17	47	24.8	E		
7.	iP	21	24	12.0	Z	0.8	0.26
	i(S)		24	42.2	N		
8.	e(P)	22	16	33.5	Z	2.0	0.15
	i(S)		24	41.5	E'		
	LQ		31	15.0	E'		
	LR		34	15.0	Z'		
9.	iP	22	52	10.0	Z	0.7	0.98
	iS		52	28.5	NE, E'		
20 DEC.							
1.	iP	05	26	50.0	Z	0.8	0.46
2.	iX	08	30	24.0	N		
3.	iX	09	02	15.0	N		
4.	iX	11	46	31.5	N		
5.	i(S)	16	25	17.6	E		
6.	iP	21	33	27.8	Z	0.8	0.65
	iS		33	35.0	NE		
21 DEC.							
1.	eX	03	01	11.0	E'		
	(LR)		02	13.0	Z'		
2.	i(P)	06	18	15.8	E		
	i(S)		18	32.0	E		
3.	i(P)	09	01	28.0	E		
	iS		01	47.3	NE		

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21 DEC.

4.	iX	15 18	36.2	Z		
5.	iX	15 54	43.0	N		
6.	iX	19 05	05.7	Z		
	iS	05	12.4	N		

22 DEC.

1.	e(P)	00 37	53.0	Z'		
	e(S)	45	44.0	E'		
	eX	52	10.0	N'		
2.	iP	00 54	03.2	Z, Z'	1.0	8.25
	iS	54	58.0	N' E'		
3.	iX	02 05	29.8	N		
4.	eX	07 56	20.0	N'		
5.	i(P)	11 05	46.8	N		
6.	eX	15 44	43.8	E		
7.	iP	19 53	25.5	Z, Z'	1.0	0.80
	iS	20 03	23.0	N'		
	LQ	20 14	45.0	E'		
	LR	18	59.0	Z'		

23 DEC.

1.	iX	04 21	41.5	N		
2.	i(P)	04 56	34.8	Z		
	i(S)	57	02.0	N		
3.	iX	17 33	51.0	NE		
4.	iX	19 12	49.0	E		
5.	i(P)	19 34	11.0	Z		
6.	iX	21 00	15.5	Z		
7.	iS	21 10	50.0	E'		
	eX	23	13.0	N'		
	(LR)	31	05.5	Z'		

24 DEC.

1.	iX	01 38	15.5	NE		
2.	iX	03 19	50.8	N		

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24 DEC.

3.	iX	06 29	12.5	E		
4.	iX	08 16	50.0	NE		
5.	(LR)	09 37	13.0	Z'		
6.	iX	10 31	17.2	N		
7.	iX	16 29	01.8	E		
8.	iP	22 04	07.0	Z	0.8	0.11
	i(S)	04 29	0.0	N		
9.	iX	23 04	23.0	E		

25 DEC.

1.	iP	00 23	27.0	Z	0.5	0.24
	i(S)	23 49	7.0	E		
2.	eiP	03 07	08.0	Z	0.8	0.69
	iP	07 08	0.0	Z'		
	ePPP	10 19	0.0	Z'		
	iS	14 33	0.0	E'		
	e(SS)	17 55	5.0	N'		
3.	iP	09 32	35.0	Z	1.0	0.35
	i(S)	33 05	0.0	E		
	(LR)	33 20	0.0	Z'		
4.	eiP	10 42	45.4	Z	1.0	1.12
	iS	43 08	0.0	E,N'E'		
5.	iX	14 06	42.0	Z		
6.	eX	14 09	40.5	Z'		
7.	iX	14 28	01.5	Z		
8.	iP	19 29	56.0	Z	0.8	0.51
9.	iS	20 07	52.0	E		

26 DEC.

1.	iP	02 29	42.0	Z	0.6	1.68
	iS	29 56	4.0	NE		
2.	eP	03 59	03.0	Z	2.0	2.40
	iP	59 03	0.0	Z'		
	iX	59 54	0.0	Z		
	eX	04 04	47.5	N		

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26 DEC.

3.	iP	06 19	31.0	Z	0.6	0.80
	iS	19	52.5	E		
4.	iX	08 21	13.5	Z		
5.	iX	12 59	19.5	N		
6.	iX	13 23	05.0	Z		
7.	i(P)	14 16	11.2	Z		
8.	e(P)	14 52	10.5	Z		
9.	iP	18 06	23.5	Z		
	iS	06	26.0	NE		
10.	eX	20 27	30.8	Z		
11.	iX	20 51	12.8	Z		
12.	iX	21 15	11.5	Z		

27 DEC.

1.	iX	02 13	48.0	E		
2.	iX	04 31	08.0	N		
3.	iP	05 25	40.2	Z	0.7	0.67
	iS	25	57.2	E		
4.	iX	13 35	53.2	E		
5.	eX	13 38	34.5	E		
6.	iS	17 06	00.8	NE		
7.	iX	17 51	18.2	Z		
8.	iX	17 54	02.5	Z		
9.	iP	20 19	36.0	Z'	1.0	0.27
	i(S)	20	28.0	E'		
10.	iX	20 53	36.3	E		
11.	eX	21 02	10.0	N		
12.	eX	21 07	41.0	E		
13.	iX	22 24	22.5	Z		

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
28 DEC.					
1.	iX	01 20 24.5	N		
2.	eX (LR)	07 09 12.0 12 55.0	N' Z'		
3.	iX	07 24 28.9	E		
4.	iX	07 42 28.2	Z		
5.	iX	07 47 25.0	Z'		
6.	eX	07 47 45.9	E		
7.	i(P) i(S) eX	08 31 03.8 31 53.5 32 36.0	Z N Z'		
8.	iP iS	12 11 33.0 12 30.5	Z, Z' E	1.2	0.69
9.	iP eP iS (LR)	15 07 13.0 07 13.0 07 50.5 09 14.0	Z Z' E' Z'	0.7	0.46
10.	iP i(S) (LQ) (LR)	20 37 55.2 42 20.0 43 14.0 44 56.5	Z, Z' N' N' Z'	1.0	0.56
29 DEC.					
1.	iP i(S) (LR)	04 21 04.0 24 05.0 26 09.0	Z' N' Z'	2.0	2.40
2.	iX	05 04 46.7	Z		
3.	iX eX (LR)	06 27 57.0 28 50.0 29 42.0	Z E' Z'		
4.	iX	06 50 40.8	E		
5.	iX	07 36 27.0	Z		
6.	eX	08 51 15.6	Z		
7.	iP iS	15 39 45.1 40 49.0	Z N'	0.8	0.22

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29 DEC.

8.	(LR)	17 24	21.0	Z'		
9.	iX	19 32	14.2	E		
10.	iX	21 18	16.5	N'		
11.	iP	21 54	32.1	Z	0.3	0.60
	iS	54	43.5	NE		
12.	iX	23 03	49.5	N		

30 DEC.

1.	i(S)	02 27	27.0	E'		
	(LQ)	37	06.0	N'		
	LR	40	43.0	Z'		
2.	i(?)	05 11	30.2	E		
3.	iX	05 31	24.0	E		
4.	i(P)	05 54	04.2	E		
	i(S)	55	05.0	E		
	(LR)	55	50.0	Z'		
5.	iP	06 21	51.5	Z	1.2	0.57
	e(S)	23	13.0	E'		
	(LR)	23	41.0	Z'		
6.	eX	09 02	15.5	N'		
7.	eX	09 46	53.5	N'		
8.	eX	09 55	52.0	N'		
9.	eX	10 57	08.0	N'		
10.	iP	13 12	58.5	Z		
	iX	13	07.5	Z		
	iS	13	10.0	NE		
11.	iX	17 08	23.0	E		
12.	eX	17 10	51.0	N'		
13.	iX	21 14	07.0	N		
	iX	31	17.0	N		
	i(S)	32	06.5	N		

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31 DEC.

1.	i(P)	01 47	10.2	E		
2.	iP	19 47	42.0	Z, Z'	1.6	1.31
	iS	50	53.0	N'		
	(LR)	52	42.0	Z'		
3.	iP	21 00	13.5	Z	0.9	1.20
4.	i(P)	21 47	00.0	Z		
5.	iX	22 45	25.7	E		