

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)

T_0 - 1.0 sec.

T_g - 0.75 sec.

Magnification: usually 6,250

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

T_0 - 15 secs.

T_g - 100 secs.

Magnification: usually 3,000

Dav. January, 1966

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

1 JAN.

1.	i(P)	11	41	44.5	E		
	i(S)		42	29.3	E		
2.	iP	13	40	57.8	Z	0.5	0.19
	iS		41	19.8	NE		
3.	i(P)	15	13	34.0	Z		
	iS		13	36.8	NE		
4.	iX	16	43	41.0	E		

2 JAN.

1.	iX	04	43	07.8	E		
2.	iP	12	38	58.0	EZ,E'Z'	0.8	2.29
3.	i(P)	15	37	26.0	Z		
	iS		37	49.0	N		
4.	iP	16	23	03.3	Z	0.6	0.35
	iS		23	09.5	NE		
5.	iP	17	05	34.7	Z		
6.	iP	20	27	08.4	NEZ,N'E'Z'		

3 JAN.

1.	i(P)	04	06	17.5	Z	0.8	0.40
	iS		06	35.0	NE		
2.	iX	04	42	38.0	E		
3.	iS	06	37	53.0	E		
4.	i(P)	07	59	30.5	NE		
5.	iP	09	12	18.0	Z	0.6	0.40
6.	iX	10	39	03.5	E		
7.	i(P)	11	26	27.7	Z	0.8	0.40
8.	i(S)	11	48	47.0	NE		
9.	iP	13	42	58.2	Z	1.0	0.35
10.	iX	15	47	09.0	E		

Dev. January, 1966

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3 JAN.

11.	iP	17 27	55.3	Z	0.8	0.46
	iS	28 20.2	N			

4 JAN.

1.	iX	03 12	58.0	E
2.	iX	08 20	46.0	E
3.	iX	09 04	33.0	E
4.	eX	09 08	07.0	N'
5.	iX	17 42	22.3	N
6.	e(P)	18 11	42.0	Z
7.	iX	20 57	25.0	Z
8.	i(P)	22 03	03.0	Z
	iS	03 26.0	E	

5 JAN.

1.	iX	09 42	26.5	N		
	(LR)	43 35.0	Z'			
2.	iP	10 41	44.0	Z	1.2	0.69
	(LR)	43 16.5	Z'			
3.	iX	14 56	50.0	E		
4.	iP	16 27	25.5	Z	0.7	0.19
	iS	27 46.5	E			
5.	iP	16 49	24.3	Z		
	iS	49 44.0	E			
6.	iP	16 57	10.0	Z	1.9	1.74
	i(S)	58 36.0	N'			
7.	iP	17 27	34.0	Z'		
	iS	32 43.5	E'			
	LQ	34 34.0	N'			
	LR	36 42.0	Z'			
8.	e(P)	18 15	24.8	Z		

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5 JAN.

9.	i(P)	20	41	38.8	Z	0.7	0.06
	iS		42	08.5	NE		
	(LR)		42	19.0	Z'		
10.	iP	21	51	34.5	Z	0.7	0.06
	iS		51	48.5	E		

6 JAN.

1.	iX	00	14	50.2	Z		
2.	iX	04	59	50.0	E		
3.	eX	06	03	53.0	N'		
4.	i(P)	10	47	40.2	Z	0.8	0.86
	iS		48	02.5	E		
5.	iP	13	48	10.5	Z	0.8	0.86
	iS		48	33.0	E,N'E'		
6.	iP	15	19	45.0	Z	1.0	1.76
	iS		20	27.0	E'		
7.	iP	18	21	54.5	Z		

7 JAN.

1.	iX	05	01	04.0	E		
2.	eX	14	37	28.0	E'		
3.	eX	15	08	40.0	Z'		
	eX		10	41.0	N'E'		
	(LR)		11	56.0	Z'		
4.	iX	17	56	11.5	E		
5.	eX	20	46	09.0	F'		
	(LR)		58	01.0	Z'		
6.	i(P)	22	14	13.0	Z		
	i(S)		14	36.5	E		

8 JAN.

1.	iP	11	54	16.5	Z	0.8	0.80
	iS		54	44.0	NE		
2.	iX	16	19	16.5	N		



Dav. January, 1966

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)			
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8 JAN.								
3.	e(P)	17 20		15.0	Z'			
	iS	20 55.0			E'			
4.	i(P)	19 18		28.5	E			
	iS	19 30.0			E			
	LR	20 05.0			Z'			
5.	iX	21 31		40.0	E			
6.	i(P)	22 25		42.0	Z			
7.	eX	22 53		30.0	N'			
	(LR)	58 14.0			Z'			
9 JAN.								
1.	iP	03 08		03.5	Z, Z'	1.1	0.87	
	iS	11 23.5			N'			
2.	iX	03 44		56.5	E			
3.	iX	06 29		27.8	E			
4.	i(P)	09 16		28.8	Z			
	i(S)	16 57.0			NE			
5.	i(P)	10 51		51.7	Z			
	i(S)	52 14.9			N			
6.	i(P)	21 02		43.0	Z			
	i(S)	03 13.5			E			
7.	iX	21 25		24.5	NE			
10 JAN.								
1.	iP	01 21		13.5	Z	1.0	0.40	
	iS	22 50.0			N			
2.	iX	01 58		12.0	E			
3.	iS	11 07		04.5	N			
4.	iX	12 07		28.5	E			
5.	iX	15 41		53.5	E			
6.	eX	16 23		48.0	E'			
	LQ	26 09.5			E'			
	LR	27 56.0			Z'			

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10 JAN.

7.	iX	18 07	37.5	E		
8.	iP	19 11	49.5	Z	1.0	0.64
	iS	12 15.0		E,N'		
9.	i(P)	19 47	30.5	E		
10.	iX	21 10	39.0	E		

11 JAN.

1.	i(P)	03 13	03.0	Z		
	iS	14 37.1		E		
2.	i(P)	05 18	15.5	Z	1.0	0.36
	iS	18 27.5		N		
3.	i(P)	05 57	15.0	Z		
	iS	57 36.0		N		
4.	iP	12 32	51.2	Z	0.9	0.33
	iS	33 21.0		E		
5.	eX	14 17	17.0	N'		
	iS	28 44.0		N'		
6.	eX	21 05	06.0	E		

12 JAN.

1.	iX	01 49	57.5	N		
2.	iP	07 56	33.0	Z	0.8	0.34
	iS	57 03.8		E		
3.	iX	08 45	22.5	E		
4.	i(P)	12 15	21.5	Z		
	iS	16 28.0		N'E'		
5.	iX	18 16	26.7	NE		
6.	i(P)	18 41	10.5	Z		
	iS	41 43.0		N		
7.	iP	22 36	01.0	Z	0.6	0.10
	iS	36 18.0		NEZ		
8.	iX	23 55	25.8	E		

Date		Phase	Time (GMT)		Comp.	T _Z (sec)	A _Z (micron)
13 JAN.							
1.	i(P)	00 27	48.0	N			
	i(S)	28	03.7	E			
2.	iP	02 16	15.5	Z	0.8	0.25	
	iS	16	39.5	N			
3.	i(P)	06 51	27.0	E			
	iS	51	42.0	E			
4.	e(P)	09 03	13.0	Z			
	iX	04	01.0	E			
5.	e(P)	10 51	14.0	Z			
	iS	59	21.5	N'E'Z'			
	(LR)	11 06	02.0	Z'			
6.	i(P)	16 42	24.5	Z			
7.	iP	20 00	05.0	Z	0.5	0.26	
	iS	00	24.5	NE			
14 JAN.							
1.	iX	01 59	40.5	E'			
2.	iP	05 36	48.5	NE			
3.	iX	17 24	55.0	N			
4.	e(P)	20 49	44.0	Z'			
	eS	56	52.0	E'			
	(LQ)	21 02	15.0	N'			
	(LR)	06	49.0	Z'			
15 JAN.							
1.	iX	05 50	00.3	E			
2.	iX	06 08	07.5	E			
3.	iP	07 04	57.5	Z	1.0	0.62	
	iS	05	27.1	N			
4.	iP	07 11	31.5	Z	1.0	5.60	
	iS	11	44.0	E			
5.	iP	08 36	01.0	Z	1.0	1.12	
	iS	36	31.0	E			
6.	i(P)	08 54	51.5	Z			
	i(S)	55	19.5	E			

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15 JAN.

7.	iP	16 40	58.8	Z	0.9	2.40
	iS	41	19.0	E		
8.	iP	22 21	32.5	Z	1.0	0.21
	iS	21	42.5	E		

16 JAN.

1.	iX (LR)	00 46	43.0	E'		
		53	06.0	Z'		
2.	eX	07 21	28.0	N'		
3.	iP	09 21	50.8	Z	1.0	0.16
4.	eX	09 36	32.0	E'		
5.	iX	12 21	30.0	E'		
6.	iP	12 52	21.0	Z	1.0	0.16
7.	iP	20 35	23.5	Z		

17 JAN.

1.	iX	02 09	52.5	E		
2.	iP	02 58	34.0	Z	0.8	0.51
	iS	58	52.5	N'		
3.	i(P)	09 46	18.0	Z	0.5	0.26
	iS	46	37.7	E		
4.	i(P)	12 01	30.5	Z		
	iS	01	40.3	E		
5.	i(P)	16 44	14.7	Z		
6.	i(P)	17 59	25.8	Z	1.0	0.21
	iS	18 07	05.0	N'		
7.	iP	18 24	36.9	Z		
	iS	24	55.8	NE		
8.	iP	20 34	05.7	Z	0.7	0.21
	i(S)	34	21.8	E		

18 JAN.

1.	iX	00 30	55.3	N		
2.	eS	01 22	24.0	N'E'		

Date		Phase	Time (GMT)		Comp.	T _Z (sec)	A _Z (micron)
18 JAN.							
3.		iX	09	33	26.0	N	
4.		e(P) eS	20	23 26	19.0 20.0	Z, Z' E'	1.0 0.16
19 JAN.							
1.		iP iS	01	42 43	46.9 04.0	Z NE	0.7 0.29
2.		iP iS	08	27 27	27.0 32.2	Z NE	0.6 0.28
3.		iP i(S)	16	11 12	48.5 16.0	Z E	
20 JAN.							
1.		eX (LR)	01	57 02	43.0 24.0	N' Z'	
2.		eP e(S) (LQ) (LR)	04	36 43 48 50	20.5 16.0 12.0 33.0	Z' E' N' Z'	
3.		iP iS	08	53 53	34.0 56.0	Z E'	
4.		iP iS	11	26 26	05.5 24.0	Z, Z' E'	0.8 3.66
5.		iP iS	11	31 31	34.5 57.4	Z E	0.8 0.29
6.		iP i(S)	11	37 37	19.9 38.5	Z N	0.8 0.23
7.		iP iS	12	52 53	52.0 10.5	Z E	0.8 0.51
8.		iP iS	13	41 42	41.8 27.0	Z E	0.8 1.26
9.		eX	15	33	12.0	Z'	
10.		i(P)	17	32	26.0	Z	
11.		iP	19	05	31.5	Z	
12.		i(P)	22	32	41.5	Z	1.0 0.32



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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)		
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20 JAN.							
13.	e(P)	23 40	50.0	Z'			
	eS	46	44.0	E'			
21 JAN.							
1.	iS	01 18	45.8	NE			
2.	iP	05 15	15.7	Z	0.5		0.52
	iS	15	27.0	NE			
3.	iP	05 34	08.3	Z	0.8		1.60
	iS	34	34.0	E			
22 JAN.							
1.	iS	05 43	17.9	E			
2.	iX	12 49	06.2	E			
3.	eP	14 39	14.0	Z'			
	eS	49	15.0	N'E'			
	eSS	54	34.0	E'			
	LQ	59	36.0	N'			
	LR	15 07	51.0	Z'			
4.	iP	18 39	03.0	Z			
	iS	39	40.0	N			
23 JAN.							
1.	iX	00 12	36.5	E			
2.	iX	06 06	57.5	N			
3.	i(P)	21 05	16.5	Z			
4.	iX	21 08	18.5	E			
5.	iS	23 21	40.7	N			
24 JAN.							
1.	iP	00 00	28.5	Z	0.8		0.23
2.	iP	02 10	25.2	Z			
3.	iP	07 32	57.5	Z,Z'	1.4		1.12
	eS	40	57.0	E'			
	LR	51	45.5	Z'			
4.	iS	08 12	52.8	N			
5.	iP	09 10	20.0	Z	0.6		0.35
	iS	10	31.5	E			

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24 JAN.

6.	i(P) eX	10 49 45.5 51 23.0	Z N'	1.2	0.91
7.	iP iS	17 52 21.7 53 02.0	Z E	0.5	0.10
8.	i(P) i(S)	19 40 11.7 40 39.5	Z E		
9.	iP. i(S)	19 43 18.8 44 01.7	Z N	0.7	0.10
10.	iX	21 41 57.5	E		
11.	iS	21 51 08.5	NE		
12.	iX	23 17 46.7	E		
13.	iP iS	23 49 03.0 50 26.0	Z NE		

25 JAN.

1.	iP iS	02 58 09.5 58 35.7	Z NE	0.8	0.17
2.	iS	04 12 52.5	NE		
3.	iP iS	18 08 12.5 10 04.5	Z N'	1.4	0.99
4.	i(P)	18 15 22.5	Z	0.8	0.11

26 JAN.

1.	i(P)	01 05 23.2	Z		
2.	i(S)	01 35 44.5	E		
3.	(LR)	11 25 55.0	Z'		
4.	iP eS	12 45 27.0 45 58.0	Z N'	1.0	0.32
5.	iP e(S)	17 38 20.0 41 18.5	Z N'	1.0	0.72
6.	iP	20 27 17.2	Z		

27 JAN.

1.	i(P)	05 06 20.6	Z		
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 Date : Phase : Time (GMT) : Comp. : T (sec) : A (micron)

27 JAN.

2.	iP	07 00	08.9	Z		
	iS	00 00	48.3	N		
3.	iS	09 41	58.0	E		
4.	iP	13 54	20.5	Z		
	iS	54 54	35.0	NE		
5.	eX	14 55	07.0	N		
	LR	57 57	12.0	Z'		

28 JAN.

1.	i(S)	04 31	54.7	NE		
2.	iP	04 45	37.0	Z, Z'	0.8	0.51
3.	eP	05 51	02.0	Z'		
	eS	58 58	07.0	E'		
	eSS	06 01	22.0	E'		
	LQ	02 02	17.0	E'		
	LR	04 04	38.0	Z'		
4.	i(S)	07 16	23.0	E		
5.	iX	09 01	58.8	E		
6.	iP	09 36	51.5	Z	0.8	0.46
7.	iP	16 50	41.5	Z	0.8	0.57
	iS	51 51	00.0	N, N'		
8.	iP	22 13	40.0	Z		
	iS	14 14	39.0	N, E'		

29 JAN.

1.	iX	04 16	19.0	E		
2.	eX	06 53	31.0	N'		
3.	i(P)	07 14	28.0	Z		
4.	iS	07 23	06.0	E		
5.	iX	07 35	38.0	E		
6.	(LR)	07 53	27.0	Z'		
7.	i(P)	09 49	14.5	Z		
	iS	49 49	43.5	N		

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29 JAN.

8. iS 13 28 19.5 NE

30 JAN.

1. i(P) 05 47 46.0 N

2. iX 10 22 24.4 N

3. i(P) 16 26 25.8 N

4. iP 17 33 40.8 Z
 iS 34 03.5 N

5. i(P) 17 40 03.8 N

6. iP 18 36 47.0 Z 0.8 0.25
 i(S) 37 03.5 N

7. i(P) 18 56 49.2 Z

8. i(P) 23 11 29.2 N

31 JAN.

1. i(P) 11 15 48.0 Z
 iS 16 06.5 N

2. iP 13 42 58.5 Z, Z' 0.8 3.89
 iS 43 07.0 E, E'

3. (LR) 15 20 23.5 Z'



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FEBRUARY 1st & 2nd: NO RECORDS, TESTING OF INSTRUMENTS

3 FEB.

1.	eP	12	01	16.0	Z, Z'
	eS		03	32.0	E' Z'
	(LR)		04	34.0	Z'
2.	e(P)	17	15	40.5	N
	eS		18	42.0	E'
	(LR)		21	08.0	Z'
3.	eP	18	02	05.5	NE
	eS		05	06.0	E'
	(LR)		06	14.0	Z'

4 FEB.

1.	iX	02	14	20.0	N
2.	eX	04	13	03.0	Z'
	eX		17	20.0	Z'
	eX		22	21.0	E'
	(LR)		32	52.0	Z'
3.	iX	04	50	19.5	E
4.	eP	05	15	07.5	Z'
	eX		23	57.5	E'
	eX		28	37.0	E'
	(LR)		36	13.5	Z'
5.	iP	06	16	35.2	N
	iS		16	43.8	N
6.	iP	10	47	31.5	Z'
	iS		54	15.0	N' E'
	LR		59	45.0	Z'
7.	i(P)	13	38	37.0	E
	iS		38	51.2	N
8.	iP	15	09	17.5	N
	iS		09	40.5	N
9.	eX	15	56	05.0	E'
	(LR)		57	25.5	Z'
10.	i(P)	15	58	48.5	E
11.	eX	16	23	12.0	Z'
	(LR)		27	14.0	Z'
12.	e(P)	16	42	14.3	E

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4 FEB.

13. LR 20 59 36.0 Z'
 14. iP 23 43 50.0 Z'
 iS 44 22.0 E'

5 FEB.

1. eX 02 19 14.0 Z'
 e(S) 27 55.0 E'
 (LR) 40 16.0 Z'
 2. iP 03 59 33.0 Z,Z' 0.9 1.27
 iS 59 47.0 E,E'
 3. i(P) 05 04 18.0 Z
 iS 04 34.5 E
 4. iS 05 54 35.5 E
 5. eP 15 18 29.0 Z'
 eS 22 21.0 N'
 6. iP 15 49 38.5 Z
 7. eP 16 24 45.8 Z
 8. i(P) 21 37 25.2 Z
 9. iX 23 01 18.0 E

6 FEB.

1. iP 02 18 04.5 Z
 iS 19 00.0 E'
 2. iS 02 43 40.3 E
 3. iX 03 36 22.0 E
 4. iP 03 56 37.2 Z
 iS 56 58.8 N
 5. eP 05 54 37.5 Z 0.9 0.09
 6. eX 09 26 15.5 E'
 7. iX 11 11 21.8 N
 8. i(P) 18 04 15.0 Z
 9. i(P) 20 32 55.3 Z

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7 FEB.

1.	i(P) eS	03 38 25.7 39 07.0	Z E'		
2.	iP iS (LQ) LR	04 36 01.0 44 00.0 49 24.0 53 05.5	Z' E' N' Z'	1.2	1.71
3.	e(P)	05 31 33.8	Z		
4.	iP i(S)	05 40 03.5 41 01.0	Z, Z' E'	1.0	0.40
5.	i(P) i(S)	20 19 41.0 20 14.5	Z E		
6.	iP iS	21 37 55.5 38 23.0	Z E		
7.	iP e(PP) iS LQ LR	23 16 24.0 18 23.0 24 21.5 30 33.5 33 17.0	Z' Z' N' N' Z'	1.8	3.55

8 FEB.

1.	iX	01 48 04.0	E		
2.	iX	13 28 15.5	E		
3.	iP i(S)	14 34 36.0 34 54.0	Z E		
4.	i(P) iS	17 22 22.0 22 35.8	Z E		
5.	iP eS	19 44 30.5 45 12.5	Z N'		
6.	iP i(S)	20 50 25.5 51 05.5	Z E	0.8	4.66
7.	iP	22 24 12.8	Z	0.8	0.46

9 FEB.

1.	iP iS	01 28 48.0 29 07.0	Z NE	0.8	0.34
2.	e(?)	04 59 38.0	Z'		

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9 FEB.

3.	iP	07	23	12.7	Z		
	iS		27	09.0	E'		
	(LR)		29	10.5	Z'		
4.	eX	08	25	55.0	Z'		
5.	iP	13	19	58.0	Z		
	iS		20	07.4	NE		
6.	(LR)	16	27	43.0	Z'		
7.	(LR)	16	58	05.0	Z'		
8.	eX	23	29	46.0	Z'		
9.	iP	23	59	23.5	Z	0.8	0.14

10 FEB.

1.	eX	02	48	06.2	E		
2.	i(P)	03	53	46.8	Z		
	iS		53	49.5	E		
3.	iX	04	04	25.5	NE		
4.	eP	05	35	05.0	Z'		
	iS		41	46.0	E'		
	(LQ)		46	40.0	E'		
	(LR)		47	19.0	Z'		
5.	iP	08	07	12.5	Z		
	iS		07	17.0	E		
6.	i(P)	08	32	33.5	Z	0.5	0.20
	iS		33	27.0	N		
7.	i(P)	08	53	54.0	Z		
	i(S)		54	20.0	E		
8.	iS	10	27	09.0	N		
9.	iP	14	26	26.0	Z'	0.7	0.88
10.	eX	15	34	43.5	E		
11.	eX	16	41	55.7	N		
	iS		42	06.8	E		



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10 FEB.					
12.	iP	16 56	37.2	Z	
	iS	56	46.0	E	
13.	eX	17 03	39.5	E	
11 FEB.					
1.	eX	04 54	28.0	N'	
	eX	59	02.0	Z'	
2.	iP	06 24	37.0	Z	
	iS	24	54.5	E	
3.	iP	07 57	38.2	Z	
4.	i(P)	14 32	15.8	Z	0.7
	iS	32	44.5	E'	0.41
5.	i(P)	22 57	30.0	Z	
12 FEB.					
1.	eP	11 49	42.0	Z	
2.	iP	18 14	48.5	E	
3.	eX	20 27	21.0	N	
4.	iX	21 49	58.0	E	
5.	i(P)	23 38	05.0	Z	
6.	eX	23 49	56.0	N'	
13 FEB.					
1.	iP	05 07	54.8	Z	1.0
2.	iP	06 39	40.5	Z	1.0
	iS	42	38.0	N'	1.09
	LQ	43	33.0	N'	
	(LR)	44	24.0	Z'	
3.	iP	07 27	21.0	Z	
	iS	27	33.5	N	
4.	eP	10 50	37.5	Z	
	eS	55	14.0	E'	
	LQ	56	00.0	E'	
	LR	58	17.0	Z'	
5.	iP	13 05	22.0	Z	
	iS	06	11.0	E	

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)		
.....							
13 FEB.							
6.	eP	14 41		19.5	Z		
	e(S)	42		47.5	N'		
7.	iX	14 46		32.0	E		
8.	iP	15 07		24.0	Z		
	eS	08		37.0	N'		
9.	iP	17 02		22.8	Z		
	iS	02		40.5	E		
14 FEB.							
1.	eP	02 02		09.5	Z'	1.0	0.93
	iS	02		43.8	E		
2.	iP	06 12		19.7	Z	1.1	1.93
	iS	14		00.0	N'		
3.	iP	08 05		51.9	Z	0.7	0.15
	iS	06		30.0	E		
4.	e(P)	12 24		27.8	E		
5.	e(P)	14 28		07.6	E		
6.	iP	18 13		30.0	Z		
	i(S)	13		34.8	E		
7.	eP	21 24		10.8	E		
	iS	24		36.9	E		
8.	eX	21 59		08.0	E		
15 FEB.							
1.	iP	01 36		24.5	Z	0.7	0.88
	iS	37		02.0	N'E'		
2.	iP	08 48		10.0	Z	1.0	3.44
	i(S)	48		23.0	E		
3.	iP	14 12		50.0	Z		
	iS	13		11.0	NE		
4.	eX	16 53		39.0	Z'		
5.	iP	22 43		23.5	Z		
16 FEB.							
1.	i(P)	00 05		29.5	Z		



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16 FEB.

2.	iP iS	01 28 56.9 29 00.0	Z E		
3.	i(P) eS	02 50 40.5 52 18.0	Z' N'E'		
4.	eP iS (LQ) (LR)	03 27 10.0 34 06.0 39 35.0 41 55.0	Z, Z' E' E' Z'	2.0	3.20
5.	iP eS	06 07 49.5 08 02.3	Z N	0.8	0.23
6.	i(P) iS	07 00 29.0 01 03.0	Z N		
7.	e(P)	15 32 17.5	Z	0.8	0.06
8.	eX	15 51 15.0	N'		
9.	iP iS	19 00 00.5 00 21.7	Z NE	0.4	0.37
10.	iP iS	20 41 59.0 42 17.0	Z N		

17 FEB.

1.	iP ePcP ePP ePPP iS eScS eSS LQ LR	11 58 01.0 58 52.0 12 00 13.0 02 02.0 06 09.0 07 48.0 10 05.0 12 46.0 15 42.0	Z, Z' Z' Z' Z' E' E' E' N' Z'	1.6	1.53
2.	e(P)	12 53 00.0	Z		
3.	iX	19 48 42.0	N		
4.	iX	20 20 42.8	N		
5.	eP eS (LR)	20 51 08.2 56 07.0 58 36.0	Z, Z' N' Z'	1.7	0.91
6.	i(P)	21 35 28.0	Z		

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.....							
18 FEB.							
1.	i(P)	02	53	08.7	E		
2.	eX	04	00	47.0	Z'		
	eX		03	06.5	N'		
3.	iS	05	47	48.8	E		
4.	iP	06	53	27.5	E		
	iS		53	35.8	N		
5.	iP	06	59	31.5	NE, N'E'Z'		
	i(S)		59	38.0	N		
6.	eX	07	49	08.2	E		
7.	iP	08	33	13.0	Z, Z'		
	iS		33	37.5	E'		
8.	iP	11	33	51.5	Z	0.7	0.15
	iS		34	20.0	N		
9.	i(P)	12	52	32.2	Z	0.5	0.10
	iS		52	58.3	E		
10.	eX	14	15	06.0	E'		
11.	iP	17	38	06.8	Z	0.5	0.31
	iS		38	14.7	NE, N'E'		
12.	(LR)	19	19	25.0	Z'		
13.	i(P)	20	09	13.5	Z		
14.	iP	20	54	21.0	Z, Z'	0.9	0.24
	e(S)		55	50.5	E'		
15.	iP	21	12	03.5	Z	0.5	0.21
	iS		12	25.5	N		
16.	iP	21	37	09.8	Z	0.5	0.12
	iS		37	41.0	E		
19 FEB.							
1.	iP	02	24	51.5	Z, Z'	1.0	0.64
	iS		25	18.8	E		
2.	iP	03	37	05.5	Z	0.5	0.10
	i(S)		37	17.6	N		



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19 FEB.

3.	iP iS	03 58 58 38.5	19.5 38.5	N NE		
4.	iP i(S)	05 07 07 45.0	25.0 45.0	Z E	0.5	0.12
5.	iP iS	06 27 27 20.5	04.0 20.5	Z N	0.7	0.31
6.	i(P) i(S)	10 44 45 18.0	49.0 18.0	N N		
7.	iP iS	12 59 13 00 03.8	48.5 03.8	Z E	0.8	0.14
8.	iP iS	20 18 18 36.0	09.8 36.0	Z N		

20 FEB.

1.	iX	02 19	03.8	N		
2.	i(P) iS	10 31 31 29.5	18.5 29.5	Z E		
3.	iP iS	11 54 55 21.0	42.5 21.0	Z E	0.6	0.52
4.	i(P)	13 07	56.0	N		
5.	iP iS	13 58 58 48.0	19.5 48.0	Z E		
6.	i(P)	20 02	03.5	Z		
7.	i(P)	20 07	08.0	Z		
8.	iP iS	20 15 15 43.5	24.0 43.5	Z E		
9.	iX	23 26	57.5	E		

21 FEB.

1.	iP i(S)	09 30 31 02.2	53.5 02.2	Z E'		
2.	iP LR	13 23 26 44.0	05.5 44.0	Z Z'		
3.	i(P) LR	14 55 56 07.5	05.5 07.5	Z Z'		

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)	
.....							
21 FEB.							
4.	iP	16 47	01.5	Z	1.0	0.32	
	iS	48 29.0	E'				
5.	iX	21 23	39.0	E			
22 FEB.							
1.	iP	00 49	48.5	Z	0.7	0.29	
	iS	50 23.0	E'				
2.	iP	05 08	35.0	Z'	1.0	0.88	
	eiP	08 37.2	Z				
3.	iP	07 23	13.0	Z, Z'	0.9	0.67	
	i(S)	24 12.0	E'				
4.	i(P)	08 35	11.7	E			
	i(S)	36 13.0	N, N' E'				
5.	iP	10 28	35.0	N			
	i(S)	28 40.6	N				
6.	i(P)	18 29	19.8	Z			
	eS	29 49.5	N				
	(LR)	32 34.0	Z'				
7.	iP	18 32	12.1	Z			
	i(S)	32 32.0	NE				
8.	iP	22 22	35.0	Z			
	eS	23 24.0	E'				
23 FEB.							
1.	iP	09 31	03.5	Z	0.8	0.40	
	iS	31 30.0	N				
2.	iP	15 45	31.0	Z			
3.	iP	23 43	50.0	Z	0.8	0.40	
	iS	44 15.5	E				
24 FEB.							
1.	iP	03 19	19.5	Z			
	i(S)	20 15.0	N				
2.	iP	04 10	59.0	Z	1.0	0.64	
	iS	11 29.0	NE, N' E'				
3.	iP	05 31	09.0	Z			
	iS	31 44.5	N				

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Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
.....							
24 FEB.							
4.	i(P)	13	22	11.8	Z	1.0	0.40
5.	i(P)	14	12	31.0	Z		
6.	i(P)	17	31	11.0	Z		
7.	iP	18	39	53.0	Z		
8.	i(P)	19	14	41.5	Z		
9.	eX	19	20	22.0	Z'		
10.	iP	20	55	41.0	Z		
25 FEB.							
1.	e(P) i(S)	07	33 34	14.0 43.0	E E'		
2.	e(P) eS	07	39 40	26.5 28.5	Z' E'		
3.	e(P) iS	09	28 28	10.0 59.0	Z' E'		
4.	i(P) iS	10	17 18	44.5 13.3	Z N		
5.	iP iS LR	14	14 16 17	09.3 44.0 52.5	Z N' Z'		
6.	iP i(S)	18	33 33	00.7 34.0	Z E		
7.	iP i(S)	19	16 16	12.5 43.0	Z E		
8.	eP i(S) (LQ) LR	23	01 10 18 21	26.0 25.0 19.0 19.0	Z' E' N' Z'		
26 FEB.							
1.	iX	03	36	02.0	N		
2.	iP	10	59	26.2	Z	0.8	0.29
3.	iP iS	11	20 20	04.5 24.8	Z E, E'	1.0	0.64

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)		
.....							
26 FEB.							
4.	iP	11 24	14.7	Z			
	i(S)	24	32.0	E			
5.	eX	11 45	37.0	E'			
	(LQ)	49	06.0	N'			
	(LR)	52	02.0	Z'			
6.	i(P)	13 01	28.5	Z			
	iS	01	36.5	E			
7.	iP	14 05	55.5	Z			
8.	iP	16 16	56.0	Z			
	eS	17	51.0	E'			
9.	iP	17 32	02.5	Z	0.7		0.26
27 FEB.							
1.	i(P)	03 06	06.5	Z			
	eS	07	08.0	N'			
2.	iP	06 58	53.3	Z	0.6		0.65
	iS	59	14.5	N			
3.	iP	08 09	03.5	Z	0.7		0.31
	iS	09	29.4	N			
4.	iS	11 05	45.2	NE			
5.	iX	13 03	42.0	N			
6.	iP	13 41	27.0	Z	1.0		0.32
	iS	42	02.0	E'			
7.	i(P)	15 37	51.2	Z			
	iS	38	06.0	E			
8.	iP	15 44	21.0	Z			
	iS	45	00.0	N			
9.	iP	17 26	09.5	Z			
	iS	26	38.0	E'			
10.	i(P)	17 55	17.2	E			
11.	i(P)	18 10	42.8	Z			
	i(S)	11	05.8	NE			
12.	i(P)	18 14	26.4	E			
	i(S)	15	02.2	E			

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
27 FEB.					
13.	iP	20 26 05.7	Z		
	iS	26 40.0	N,N'E'		
28 FEB.					
1.	iX	03 36 02.0	N		
2.	iP	10 59 26.2	Z	0.8	0.29
3.	iP	11 20 04.5	Z	1.0	0.64
	iS	20 24.8	E,E'		
4.	iP	11 24 14.7	Z		
	i(S)	24 32.0	E		
5.	eX	11 45 37.0	E'		
	(LQ)	49 06.0	N'		
	(LR)	52 02.0	Z'		
6.	i(P)	13 01 28.5	Z		
	iS	01 36.5	E		
7.	iP	14 05 55.5	Z		
8.	iP	16 16 56.0	Z		
	eS	17 51.0	E'		
9.	iP	17 32 02.5	Z	0.7	0.26

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1 MAR.					
1.	eX (LQ)	01 07 34.0 08 12.0	E' N'		
2.	iP i(S)	01 51 02.2 51 09.5	NE N		
3.	iX	02 51 47.8	E		
4.	iP	03 37 03.0	NE		
5.	i(P)	04 19 02.5	NE		
6.	iP i(S)	04 34 04.6 34 26.5	Z N	0.7	0.52
7.	i(P)	10 56 34.0	E		
8.	iP	11 59 15.2	NE		
9.	eX	14 43 44.0	N'		
10.	iP iS	15 48 58.0 49 03.8	Z,Z' E	0.6	3.40
2 MAR.					
1.	iP	02 03 19.3	N		
2.	iS	05 31 47.0	N		
3.	iP iS (LR)	07 27 32.5 29 29.0 30 06.0	Z E' Z'	0.8	0.23
4.	iP i(S)	08 42 06.5 42 31.2	E E		
5.	iP iS	12 50 28.5 51 41.5	Z N'	0.6	0.14
6.	eX	14 16 25.0	Z'		
7.	iP i(S)	17 21 50.5 23 04.0	Z E'	1.0	0.64
8.	iX	17 36 32.0	N		

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2 MAR.

9.	eX	17 40	03.0	N'		
10.	i(P)	19 55	27.7	Z		
	i(S)	56	07.8	N		
11.	eX	20 26	15.0	N'		
	LR	27	27.0	Z'		
12.	iS	21 14	14.0	N		
13.	i(P)	23 12	16.5	N		

3 MAR.

1.	iX	02 02	04.5	N		
2.	iS	02 17	03.0	NE		
3.	i(P)	02 26	39.0	E		
	iS	27	30.5	N		
4.	iP	03 34	02.5	Z'		
	ePP	35	48.0	Z'		
	ePPP	37	07.0	Z'		
	eS	41	02.0	E'		
	e(SSS)	44	12.0	N'		
	IQ	46	14.0	N'		
	LR	48	11.0	Z'		
5.	iP	04 23	52.0	Z	0.7	0.93
	iS	24	01.5	E		
6.	iS	07 12	36.0	E		
7.	iX	07 26	46.5	N		
8.	iP	09 24	25.0	Z	1.0	0.48
	iS	25	05.0	E'		
9.	iS	11 56	08.8	N		
10.	iX	12 04	31.0	N		
11.	eX	14 35	38.0	Z'		



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3 MAR.

12.	iP	17 18 05.5	Z	0.8	1.12
	iS	18 20.2	E		
13.	iX	17 45 34.5	E		
14.	iP	20 15 57.0	Z		
	iS	16 30.0	E		

4 MAR.

1.	i(P)	00 42 29.5	E		
	iS	42 42.9	N		
2.	i(P)	01 47 52.0	E		
3.	i(P)	08 49 56.2	N		
4.	i(P)	08 55 36.0	N		
5.	iP	11 23 44.0	E		
	i(S)	24 00.5	E		
6.	iP	11 44 02.4	E		
	iS	44 40.7	N		
7.	iP	18 50 17.0	Z	0.5	0.13
	eS	51 05.0	E'		
8.	iP	21 23 53.8	Z	0.6	0.15
	iS	24 09.0	N		
9.	iP	22 23 13.8	Z	0.5	0.21
	iS	23 26.5	E		
10.	i(P)	22 25 49.7	Z		

5 MAR.

1.	iP	00 09 43.8	Z, Z'	1.5	2.02
	(LR)	18 39.0	Z'		
2.	iP	01 47 32.3	Z		
	iS	48 07.0	E		
3.	i(P)	02 05 49.5	Z		
4.	i(P)	02 44 55.0	Z, N' E' Z'	1.1	3.28
	iS	45 21.0	E		

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5 MAR.

5. LR 16 12 07.0 Z'
 6. eX 23 20 34.0 Z'

6 MAR.

1. iP 00 10 14.5 Z, Z'
 iS 10 50.0 E'
 2. iS 01 13 24.8 N
 3. iP 01 48 46.0 Z 1.0 0.32
 iS 49 38.0 E
 4. iP 02 24 38.5 Z' 1.5 1.52
 iS 31 50.0 E'
 iSS 35 40.0 Z'
 iQ 36 17.0 E'
 LR 39 35.0 Z'
 5. i(P) 04 48 39.0 E
 6. iP 13 00 54.7 Z 0.6 0.20
 7. eP 17 40 17.5 Z, Z'
 iS 40 57.5 E'
 8. eX 18 21 30.0 Z'
 LR 32 47.0 Z'
 9. iX 23 15 00.0 N

7 MAR.

1. iP 12 52 21.9 NEZ
 iS 52 28.0 E
 2. iP 14 17 36.0 Z
 iS 17 52.5 E
 3. e(P) 15 47 43.0 E
 iS 48 32.0 N
 4. iP 18 14 00.9 Z
~~iS 14 05.0 NE~~
 5. i(P) 19 11 22.0 N

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7 MAR.

6.	iP	19 16 05.6	Z		
	iS	16 11.0	NE		
7.	iP	21 35 37.0	Z	1.0	0.40
	iS	41 05.0	E'		
8.	iP	21 45 43.4	Z		
	iS	46 03.5	E		

8 MAR.

1.	iP	01 22 02.0	Z'		
	ePP	23 47.0	Z'		
	iS	28 45.0	E'		
	iQ	33 06.0	N'		
	LR	35 56.0	Z'		
2.	iP	05 42 24.5	N' E' Z'		
	eS	42 47.5	E'		
3.	iP	06 01 25.0	Z		
4.	iP	06 29 36.0	Z		
5.	i(P)	07 29 46.5	Z		
6.	i(P)	09 20 54.0	Z		
7.	iP	12 20 36.5	Z, Z'		
	iS	21 36.0	E'		
8.	iP	16 13 11.0	Z		
9.	iP	18 39 47.0	Z		
	i(S)	40 56.0	E'		
10.	iS	18 45 18.5	E		
11.	i(P)	20 05 05.0	Z		

9 MAR.

1.	iP	00 58 58.0	Z	0.6	1.40
	iS	59 21.0	E, N' E'		
2.	iP	05 21 45.5	Z	0.8	0.23



.....
 Date : Phase : Time (GMT) : Comp. : T_z(sec) : A_z(micron)

9 MAR.

3.	eX	05 54	52.0	N'		
4.	i(P)	10 27	09.0	Z		
	iS	27	26.0	E		
5.	iS	13 01	34.0	N		
6.	eX	13 42	04.0	Z'		
7.	iP	17 02	32.0	Z	0.9	2.00
	iS	02	37.5	N' E'		
8.	iP	17 06	28.9	Z		
	iS	06	34.0	NE		
9.	i(P)	17 51	19.8	Z		
	iS	51	25.0	N		
10.	iP	18 55	33.5	Z		
11.	iP	23 18	42.0	Z	1.0	0.56
	iX	19	07.0	Z'		
	iS	23	23.0	N'		

10 MAR.

1.	i(P)	02 55	08.2	E		
2.	iP	04 31	33.0	Z	1.0	0.26
	eX	35	42.5	N		
	eS	37	59.5	E'		
	eX	40	51.0	N'		
3.	iP	07 49	31.8	Z		
	iS	49	38.5	NE		
4.	iP	12 43	13.0	Z'	1.0	0.24
	iS	44	13.5	E		
5.	iS	15 22	05.7	N		
6.	iP	19 24	20.0	Z	1.0	0.19
	iS	24	53.0	N		
7.	eX	21 51	28.0	N'		
8.	iP	22 32	34.0	Z	0.6	0.37
	iS	32	54.0	N		
9.	eX	23 30	29.0	N'		

Dev. March, 1966

.....							
Date	Phase	Time (GMT)			Comp.	T _z (sec)	A _z (micron)
.....							
11 MAR.							
1.	iP iS	01 09 40.0 09 56.0		Z NE	0.5	0.26	
2.	iP iS	03 43 08.0 43 58.0		Z NE	0.7	0.27	
3.	iS	04 21 06.0		N			
4.	iP	05 49 14.5		E			
5.	LR	06 36 34.0		Z'			
6.	iS	08 15 41.8		NE			
7.	iP	08 22 05.0		E			
8.	LR	08 45 08.0		Z'			
9.	iP iS	11 05 02.5 05 28.2		Z E	0.7	0.85	
10.	iS	14 21 26.0		NE			
11.	e(P)	17 21 31.0		E			
12.	iP iS	20 04 15.2 04 42.5		Z E	0.5	0.31	
13.	iP iS	20 12 56.5 13 02.1		Z NE			
14.	iS	20 14 43.5		N			
12 MAR.							
1.	iS	06 55 17.7		E			
2.	i(P)	06 53 17.5		E			
3.	i(P)	11 43 24.0		Z			
4.	iX	11 49 40.0		E			
5.	iP i(S)	12 15 06.8 15 52.0		Z E			
6.	i(P)	15 13 56.5		Z			
7.	iP	16 35 18.0		N' E' Z'	2.0	25.60	

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
12 MAR.					
8.	iP	18 03 35.5	Z		
9.	iP	19 25 54.5	Z		
10.	iX	19 59 28.0	N		
13 MAR.					
1.	eX	00 56 39.0	Z'		
2.	iP	01 58 10.5	EZ		
	iS	58 37.0	E		
3.	iP	02 40 19.0	Z		
4.	LR	04 05 58.0	Z'		
5.	LR	04 19 48.0	Z'		
6.	i(P)	04 41 01.0	NE		
7.	iP	05 14 13.5	Z	0.8	0.51
	iS	14 29.5	E		
8.	iP	07 29 02.0	Z	0.8	1.20
	iS	29 27.0	E		
9.	eX	08 11 28.0	Z'		
10.	iP	09 32 08.5	Z	0.5	0.24
	iS	32 12.5	N		
11.	iP	09 39 30.5	NZ		
	eX	40 57.0	N'		
	eX	41 26.0	Z'		
12.	iS	09 50 19.0	N		
13.	iP	10 16 57.5	E		
14.	iX	10 31 46.5	N		
15.	i(S)	12 37 50.5	E		
16.	i(P)	12 51 01.0	E		
17.	iP	14 35 30.5	Z		
	iS	36 49.3	E		
	eX	37 32.0	Z'		

Dev. March, 1966

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
13 MAR.					
18.	eX	14 57 50.0	Z'		
	LR	15 02 03.5	Z'		
19.	eX	15 37 46.0	Z'		
20	eX	15 50 21.0	Z'		
21.	i(P)	16 00 15.0	NE		
	i(S)	01 35.0	E		
22.	eX	16 22 06.0	Z'		
	(LR)	24 08.0	Z'		
23.	iP	16 26 49.5	Z	0.5	0.31
	i(S)	27 08.0	E		
24.	eX	17 06 06.0	Z'		
25.	eX	18 26 53.0	Z'		
26.	eX	18 31 46.0	N'		
	LR	48 58.0	Z'		
14 MAR.					
1.	eX	09 29 32.0	Z'		
2.	iP	11 14 25.5	Z	1.0	2.00
	iS	14 58.5	E		
3.	iP	13 20 32.5	Z	1.0	0.32
	i(S)	22 00.0	N'		
4.	eX	21 49 10.0	N'		
5.	iP	21 59 26.0	Z	1.0	0.48
	iS	59 44.0	E'		
15 MAR.					
1.	i(P)	02 53 41.5	N		
2.	iP	05 09 47.5	E		
	iS	10 03.5	N		
3.	i(P)	10 35 33.5	N		
4.	i(P)	10 43 17.0	E		
5.	iX	10 50 11.5	Z		

Dav. March, 1966

.....
 Date : Phase : Time (GMT) : Comp. : T₂(sec) : A₂(micron)

15 MAR.

6.	eX	11 21	26.0	Z'		
	LR	22	23.0	Z'		
7.	iP	13 55	58.8	Z	0.9	0.20
	iS	56	26.0	NE		
8.	iP	18 18	17.9	Z	0.7	0.46
	iS	18	24.5	E		
9.	i(P)	18 19	47.0	Z		
10.	iP	22 31	11.0	Z		
	iS	31	33.0	NE		
11.	iP	23 18	47.0	Z		
	iS	19	00.0	E		
12.	eP	23 35	49.0	Z'		
	eS	39	14.0	N'		
	(IQ)	39	40.0	E'		
	LR	40	28.5	Z'		

16 MAR.

1.	i(P)	07 20	01.5	N		
2.	i(P)	10 25	16.0	E		
	e(S)	26	20.0	E'		
3.	e(P)	12 23	38.0	Z		
	eX	37	08.0	E'		
	(LR)	45	11.0	Z'		
4.	i(P)	15 27	32.0	N		
5.	iX	16 59	53.5	N		
6.	iP	20 39	30.0	E' Z'		
7.	iP	23 12	42.0	E		
	eX	13	40.0	E		

17 MAR.

1.	eP	03 58	44.0	Z'		
	iS	59	40.0	E'		
2.	iP	04 09	04.5	Z		
3.	i(P)	04 56	36.0	Z		
	iS	57	38.5	E		

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
17 MAR.					
4.	iP	07 55 51.8	Z	1.0	0.80
5.	iP	08 39 45.0	Z'	1.0	0.64
	iS	40 58.0	N'		
6.	iP	09 50 43.0	Z		
	eP	50 43.0	Z'		
	iS	51 29.0	E		
7.	iP	12 01 03.0	Z	0.8	0.46
	iS	01 27.0	E		
8.	iP	15 59 48.5	Z, Z'	1.0	1.76
	ePcP	16 00 37.0	Z'		
	ePP	01 51.0	Z'		
	e(FPP)	02 52.0	Z'		
	iS	07 20.5	N'		
	e(ScS)	08 46.0	N'		
	eSS	11 03.0	E'		
	eSSS	12 03.0	N'		
G	13 38.0	N'			
18 MAR.					
1.	iS	00 49 16.0	E		
2.	iP	07 23 17.0	Z		
	iS	23 20.5	E		
3.	i(P)	08 26 27.5	E		
	iS	27 45.0	E'		
4.	iP	09 52 48.0	Z, Z'	0.5	0.21
	iS	53 15.5	E		
5.	eX	14 35 07.0	N'		
6.	(LQ)	15 35 50.0	N' E'		
	(LR)	36 20.0	Z'		
7.	iP	19 11 44.5	Z	0.9	0.16
	iS	11 47.0	NE		
8.	iX	19 16 30.0	Z		
	i(S)	16 32.8	N		
9.	i(P)	20 19 36.3	E		
	I(S)	19 40.5	E		
10.	iP	20 46 08.0	Z		
	i(S)	46 10.8	E		

Day. March, 1966

Date	Phase	Time (GMT)	Comp.	T _z (sec)	A _z (micron)
19 MAR.					
1.	iX	01 40 30.0	N		
2.	iP	09 41 16.0	Z		
	iS	41 54.0	E		
3.	i(P)	10 20 45.5	Z		
	iS	21 09.5	E		
4.	eX	13 58 43.0	N'		
	LR	14 00 34.0	Z'		
5.	eP	15 16 41.0	Z	0.9	0.13
6.	eX	17 12 08.0	Z'		
	LR	15 32.0	Z'		
7.	(LR)	18 06 02.0	Z'		
8.	iP	21 16 16.2	Z	0.8	0.29
20 MAR.					
1.	iP	01 56 13.0	Z'		
	e(S)	02 07 00.0	E'		
2.	iP	07 07 09.0	Z		
	iS	07 37.0	E		
3.	eX	08 33 12.0	N'		
4.	eP	09 15 00.0	Z'		
	e(S)	24 12.0	E'		
	(LR)	36 37.0	Z'		
5.	iP	11 32 05.7	Z'	0.8	0.46
	iS	32 41.0	E'		
6.	iP	16 31 12.0	Z		
	i(S)	31 33.5	E		
7.	iP	17 28 57.5	Z	1.2	0.46
	iS	30 45.0	N		
8.	iP	18 11 30.0	Z		
	iS	11 42.0	NE		
21 MAR.					
1.	eX	00 10 36.0	N'		
2.	iX	01 37 44.5	E		

Dav. March, 1966

.....
 Date : Phase : Time (GMT) : Comp. : T_z(sec) : A_z(micron)

21 MAR.

3.	iP	06 33	27.5	Z	1.0	0.56
	e(S)	37	54.0	N'		
	(LR)	38	25.0	Z'		
4.	i(P)	12 10	14.5	E		
5.	e(P)	16 04	32.0	Z'		
	e(S)	08	12.0	N'		
6.	iP	19 34	28.5	Z		
	iS	34	36.0	E		
7.	iP	22 36	37.5	Z		
8.	eX	22 39	04.0	N'		
9.	iP	22 52	38.5	Z	0.9	2.27
	iS	53	43.0	N'		

22 MAR.

1.	i(P)	02 14	25.0	N		
2.	iP	03 32	59.6	Z, Z'	0.8	0.69
	iS	33	14.0	E'		
3.	iX	07 05	28.5	E		
4.	iP	08 17	57.0	Z	0.8	0.25
	i(S)	23	13.0	N'		
5.	iP	08 26	57.0	Z	0.9	0.32
6.	iX	15 45	43.5	E		
7.	iP	15 59	05.8	Z		
8.	iX	20 05	58.8	N		
9.	i(P)	22 21	40.0	Z		

23 MAR.

1.	iP	00 08	28.0	Z, N' Z'		
2.	eX	07 47	15.0	Z'		
3.	eX	17 42	24.5	Z'		
4.	iP	21 51	17.0	Z'		
	i(S)	51	38.0	E		

Dev. March 1960

Date	Phase	Time (GMT)	Comp.	T ₂ (sec)	A ₂ (micron)
23 MAR.					
5.	i(P)	22 06 25.5	Z		
24 MAR.					
1.	iS	03 46 34.5	N		
2.	eP	08 36 12.0	Z		
	eS	42 54.0	E'		
	(LQ)	45 54.0	N'		
	LR	49 24.0	Z'		
3.	iP	10 18 16.0	Z'		
	eS	19 34.5	N'		
4.	eX	11 30 50.0	N'		
	LR	34 00.0	Z'		
5.	i(P)	12 27 38.0	E		
	iS	27 53.0	E		
6.	iX	12 32 17.0	E		
	iS	32 30.0	NE		
7.	eP	20 07 02.0	Z'		
	e(S)	10 48.0	E'		
	LR	12 42.0	Z'		
8.	i(P)	21 38 14.0	Z		
	iS	38 56.0	E		
25 MAR.					
1.	i(P)	06 10 55.5	Z		
	iS	11 24.0	E		
2.	eP	09 00 36.0	Z'		
	iS	03 54.5	N' E'		
3.	iP	10 29 23.5	Z		
	iS	29 30.0	NE		
4.	eX	11 24 21.0	E'		
	(LR)	29 04.0	Z'		
5.	eX	13 54 14.0	N'		
	LR	57 24.0	Z'		
26 MAR.					
1.	iP	05 25 55.0	Z		
	iS	26 18.5	N		

Day. March, 1966

.....						
Date	Phase	Time (GMT)	Comp.	T ₂ (sec)	A ₂ (micron)	
.....						
26 MAR.						
2.	eP	14 12 49.0	Z'			
	e(S)	15 53.5	E'			
	LR	18 12.5	Z'			
3.	iP	15 25 28.0	Z'			
	iS	30 43.0	E'			
	(LQ)	33 30.0	E'			
	(LR)	35 08.0	Z'			
4.	eX	18 26 02.0	E'			
	LR	30 13.0	Z'			
5.	eX	22 24 55.0	E'			
6.	iP	23 39 51.2	Z			
27 MAR.						
1.	iP	01 19 42.0	Z			
	i(S)	19 57.5	N			
2.	iX	02 02 49.0	E			
3.	iP	02 52 51.2	Z			
	iS	53 11.7	N			
4.	iX	03 41 42.0	Z'			
5.	i(P)	10 54 19.5	Z			
	iS	54 42.8	E			
6.	iX	10 59 52.5	N			
7.	iP	13 28 05.8	NEZ		0.8	1.49
	iS	28 46.0	E'			
8.	iS	13 39 19.5	E			
9.	iP	14 24 38.5	Z		0.8	0.80
	i(S)	24 41.0	E			
10.	iP	19 13 23.5	E			
28 MAR.						
1.	eX	03 42 04.0	N'			
2.	eX	05 04 38.0	N'			
3.	iP	15 51 28.0	Z'			
	iS	55 53.0	E'			

Dev. March, 1966

.....
 Date : Phase : Time (GMT) : Comp. : T_z(sec) : A_z(micron)

28 MAR.

4.	LR	16 40	51.0	Z'
5.	eX	18 19	09.0	Z'
6.	eX	18 36	48.0	E'
7.	LR	18 54	20.0	Z'
8.	iX	20 48	10.0	E

29 MAR.

1.	iP	02 22	39.0	Z	1.2	1.14
	iS	27	13.0	E'		
	LQ	27	51.0	E'		
	LR	28	28.0	Z'		
2.	i(P)	03 10	29.0	Z		
	iS	11	13.5	E		
3.	i(P)	04 10	30.0	Z		
4.	iP	04 46	04.0	EZ		
	iS	48	20.0	E'		
5.	eP	06 18	32.0	Z'		
	iS	23	37.0	N'		
	(LR)	27	11.0	Z'		
6.	i(P)	06 35	15.0	E		
	iS	36	09.2	E		
7.	iS	13 50	54.0	NE		
8.	eX	16 02	16.0	Z'		
9.	iS	18 20	31.8	NE		
10.	eX	18 38	48.0	N'		
11.	iX	23 34	55.7	E		

30 MAR.

1.	eX	04 37	33.0	N
	LR	45	25.0	Z'
2.	eX	05 39	51.0	Z'
3.	eP	13 05	46.0	Z'
	eX	18	50.0	E'
	LR	33	12.0	Z'

Day. March, 1966

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
30 MAR.					
4.	iP	17 14 15.2	Z		
	iS	14 21.5	N		
5.	(LR)	17 40 12.0	Z'		
31 MAR.					
1.	eP	05 14 39.0	Z'		
	eS	21 29.0	E'		
	LQ	27 52.0	N'		
	LR	30 49.0	Z'		
2.	iX	13 46 07.5	E		
3.	iP	15 11 54.0	Z	0.5	0.41
	iS	12 01.4	E		
4.	eiP	23 47 33.0	Z	1.0	0.26

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)

T_0 - 1.0 sec.

T_g - 0.75 sec.

Magnification: usually 6,250

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

T_0 - 15 secs.

T_g - 100 secs.

Magnification: usually 3,000

Day, April, 1966

.....
 Date : Phase : Time (GMT) : Comp. : T₂(sec) : A₂(micron)

1 APR.

1.	eX	04	03	21.0	Z'		
	eX		10	14.0	Z'		
	LR		28	40.0	Z'		
2.	iX	05	27	41.5	N		
3.	iX	09	22	25.3	N		
	i(S)		22	37.8	E		
4.	iP	14	46	27.8	Z	0.5	0.12
	iS		46	40.8	N		

2 APR.

1.	iP	08	53	43.0	Z	0.8	0.87
	iS		54	10.0	E		
2.	eX	11	12	24.5	N'		
3.	eiP	19	24	53.0	Z		
	i(S)		25	18.0	E		
4.	i(P)	19	27	54.2	Z		
5.	iX	20	19	54.5	E		

3 APR.

1.	iX	11	42	02.8	N		
2.	iP	14	38	35.5	E		
	iS		38	57.5	E		
3.	i(P)	16	34	58.5	E		
	iS		35	08.5	NE		
4.	iP	18	28	44.2	E		
	iS		28	50.7	E		
5.	i(P)	18	34	40.7	E		
6.	i(P)	19	37	25.0	E		
	iS		37	47.0	E		
7.	iX	19	59	50.0	E		

Dav. April, 1966

Date	Phase	Time (GMT)		Comp.	T_z (sec)	A_z (micron)	
9 APR.							
1.	iP	02	54	03.6	Z	1.5	0.95
2.	iP	03	01	49.0	Z'	2.0	3.60
	e(S)	05	43.0		N'		
3.	eX	03	54	44.0	Z'		
	LR	04	03	23.0	Z'		
4.	eX	15	08	04.0	Z'		
	LR		12	37.0	Z'		
5.	eP	17	57	29.5	Z		
	iS		59	19.7	N		
6.	iP	20	01	27.2	Z	0.8	4.80
7.	iP	23	22	37.0	Z	0.9	0.13
	iS		23	32.2	E		
10 APR.							
1.	i(P)	03	33	35.0	E		
2.	eP	10	08	54.0	Z'		
	iS		10	12.0	E'		
3.	iX	15	59	49.0	E		
4.	eX	16	02	34.0	N		
5.	iX	16	56	33.0	E		
6.	eX	17	51	02.0	Z'		
7.	iP	19	36	19.0	EZ		
11 APR.							
1.	iX	01	16	55.5	Z		
	iS		17	09.5	NE		
2.	iP	06	07	09.8	Z	0.5	0.21
	i(S)		07	31.5	E		
3.	iP	09	37	16.5	Z	0.6	0.38
	iS		37	39.0	E		

Day. April, 1966

Date	Phase	Time (GMT)	Comp.	T _z (sec)	A ₂ (micron)
11 APR.					
4.	iX	17 34 52.5	E		
5.	iP	18 26 52.0	Z	0.5	0.83
	iS	27 10.9	NE		
6.	eX	23 22 28.0	N'		
	eX	33 22.0	E'		
	LR	36 09.0	Z'		
12 APR.					
1.	iP	01 06 32.0	Z		
	iS	06 51.0	E		
2.	iP	01 27 41.5	EZ	0.8	0.72
	iS	28 00.0	E		
3.	i(P)	14 59 39.0	Z		
4.	e(P)	23 57 20.0	N'		
	eX	00 02 24.0	E'		
	eX	07 21.0	N'		
13 APR.					
1.	eX	00 46 41.0	E'		
	(LR)	49 07.0	E'		
2.	eX	04 16 42.0	N'		
	eX	32 55.0	N'		
3.	eX	13 16 05.0	N'		
4.	iS	15 25 56.5	NE		
5.	iP	18 28 31.3	Z		
	i(S)	29 01.5	E		
6.	i(P)	23 33 30.5	E		
	iS	34 10.5	E		
	eX	34 58.0	N'		
14 APR.					
1.	eX	02 15 20.0	E		
2.	eX	02 20 26.0	E'		
3.	i(P)	02 41 51.0	E		
	iS	42 49.9	E		

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Date	Phase	Time (GMT)	Comp.	T _z (sec)	A _z (micron)
14 APR.					
4.	iP	02 58	Z	16.0	
	i(S)	59	E	19.0	
	eX	03 00	E'	38.0	
5.	eX	09 09	N'	28.0	
	eX	10	N'	50.0	
6.	iP	10 30	Z	39.0	0.5
	iS	30	NE	51.0	0.46
7.	i(P)	10 57	E	29.5	
8.	iP	12 48	Z	37.5	
	iS	49	E	05.2	
9.	eX	14 25	N'	47.0	
10.	eX	16 44	E'	40.0	
	eX	52	E'	24.0	
11.	iP	18 02	Z	40.3	0.7
	iS	02	NE	46.5	0.21
12.	eX	19 26	N'	28.0	
	eX	27	N'	51.0	
13.	i(S)	20 23	E	58.0	
14.	iX	21 53	E	08.0	
15 APR.					
1.	eX	00 31	N'	07.5	
2.	iP	02 48	Z	36.8	
	iS	49	E'	00.0	
3.	iP	03 40	Z	59.0	1.0
	iS	42	N'	26.0	1.28
4.	iP	08 33	Z	36.0	
	iS	33	E	41.0	
5.	eX	13 47	N'	05.0	
6.	eX	14 21	Z'	55.5	

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Date	Phase	Time (GMT)	Comp.	T ₂ (sec)	A ₂ (micron)
15 APR.					
7.	i(P)	16 05 04.0	Z		
8.	iP	19 05 10.5	Z		
9.	iP	19 48 05.8	Z	0.6	0.21
	eS	48 29.8	E		
10.	i(P)	20 14 30.7	Z		
16 APR.					
1.	iP	01 39 18.0	Z, Z'		
	iPP	42 25.0	Z'		
	iS	49 16.5	N ⁺ E'		
	e(PFS)	50 58.0	N ⁺		
	eSS	54 53.0	E'		
	LQ	59 32.0	N ⁺		
	LR	02 03 51.0	Z'		
2.	iP	02 26 22.0	Z, Z'	0.9	0.73
	i(S)	27 48.0	E'		
3.	iP	04 44 57.3	Z	0.7	0.39
	iS	45 01.2	N		
4.	eX	10 21 12.8	Z'		
	eX	26 48.0	E'		
	(LR)	27 27.0	Z'		
5.	i(P)	11 51 54.4	Z		
6.	eX	18 24 10.0	Z'		
7.	iP	21 29 45.0	Z	0.7	0.24
	iS	29 56.5	NE		
8.	i(P)	23 10 44.0	N		
	i(S)	11 10.5	N		
17 APR.					
1.	i(P)	06 12 23.8	Z		
2.	eX	07 07 55.0	Z'		
3.	i(P)	10 11 54.0	Z		

Date	Phase	Time (GMT)			Comp.	T _z (sec)	A _z (micron)
17 APR.							
4.	iX	14	48	08.0	N		
5.	iP	21	47	43.3	Z		
	iS		48	11.5	NE		
6.	i(P)	21	57	21.5	N		
18 APR.							
1.	iX	00	03	20.0	E		
2.	i(P)	01	57	02.0	Z		
3.	iX	03	56	21.0	N		
4.	i(P)	05	48	25.5	Z		
5.	i(P)	07	51	05.0	Z		
6.	eX	10	11	19.0	Z'		
7.	eX	13	23	46.0	Z		
8.	iX	16	40	37.0	N		
9.	iX	18	58	42.0	N		
	eX		59	42.0	Z'		
10.	eX	22	57	55.0	Z'		
19 APR.							
1.	iP	02	37	14.5	Z	0.8	0.34
	iS		37	30.0	NE		
2.	iX	12	02	55.5	E		
3.	iS	14	20	33.0	NE		
4.	iP	17	58	01.8	Z		
	iS		58	19.5	E		
5.	e(P)	19	32	18.0	Z'		
	eS		35	26.0	N'		
	LR		37	52.0	Z'		

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
19 APR.					
6.	i(P)	22 26		25.0	Z
	iS	26		28.0	NE
20 APR.					
1.	eP	02 38		05.5	Z'
	eX	39		36.0	Z'
	eS	42		39.0	N'
	LR	44		24.0	Z'
2.	eP	05 39		03.0	Z'
	eS	43		34.0	N
	LR	45		08.5	Z'
3.	eP	06 05		57.0	Z'
	eS	10		23.0	E'
	LR	11		58.5	Z'
4.	eX	06 54		18.0	Z'
5.	i(P)	07 46		38.3	Z
6.	eX	13 44		00.0	Z'
7.	eX	14 07		06.0	Z'
	LR	12		25.0	Z'
8.	eX	14 37		08.0	Z'
	(LR)	47		05.0	Z'
9.	iP	16 31		31.8	Z, Z'
	iS	36		03.0	E'
	LR	40		44.0	Z'
10.	eX	20 39		09.0	Z'
21 APR.					
1.	i(P)	08 34		02.5	N
2.	iP	13 53		06.8	Z
3.	iX	15 48		26.5	N
4.	i(P)	18 12		29.8	N

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Date	Phase	Time (GMT)	Comp.	T _z (sec)	A _z (micron)	
22 APR.						
1.	eP	03 26	Z'	08.0		
	eX	42 03	Z'	03.0		
2.	iP	03 46	E	32.0		
3.	eX	10 57	Z'	16.0		
4.	LR	12 09	Z'	36.0		
5.	eX	13 07	Z'	22.0		
	LR	12 18	Z'	18.0		
6.	iP	15 34	Z	01.0	0.5	0.10
	i(s)	34 42	N	42.2		
7.	iP	15 49	Z	09.5	0.5	0.21
	i(s)	49 18	E	18.0		
8.	iP	15 54	Z	55.3	0.5	0.10
9.	iX	19 13	E	49.0		
10.	iP	20 21	Z	19.0	0.5	0.15
	iS	21 26	N	26.5		
11.	i(s)	22 32	NE	38.5		
12.	iP	23 27	Z	03.2	0.8	2.26
	iS	27 22	E, N' E'	22.8		
13.	iP	23 39	Z, Z'	28.0	1.5	0.76
	ePP	42 56	Z'	56.0		
	eS	49 34	E'	34.0		
	ePPS	50 46	E'	46.0		
	eSS	55 04	E'	04.0		
23 APR.						
	LQ	00 00	N' E'	36.0		
	LR	05 06	Z'	06.0		
22 APR.						
14.	iP	23 57	Z	43.0	0.6	0.13
	iS	57 49	E	49.5		

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Date	Phase	Time (GMT)	Comp.	T_z (sec)	A_z (micron)
23 APR.					
1.	iP	00 11 35.5	Z	1.0	3.12
2.	iP	02 43 26.5	Z	0.7	0.33
	iS	43 35.5	N		
3.	iP	03 07 27.5	Z	1.5	1.52
	iS	09 14.3	N		
4.	i(P)	03 18 46.0	N		
	iS	19 00.9	E		
5.	iP	03 22 33.2	Z	1.5	0.84
	i(S)	24 17.0	E		
6.	iP	03 51 08.7	Z	1.0	0.51
	iS	52 56.8	E		
7.	iP	05 33 45.5	Z, Z'		
8.	iP	07 00 23.0	Z, Z'	1.0	0.45
	ePP	02 53.0	Z'		
	ePKP	08 06.0	Z'		
	eS	09 09.0	N' E'		
	e(SS)	10 16.0	N'		
	e(SS)	14 09.0	E'		
	(IQ)	17 11.0	N'		
	LR	21 16.0	Z'		
9.	iP	08 58 45.0	Z, Z'	1.5	36.19
10.	iP	09 16 57.7	Z		
11.	iP	11 08 53.5	Z'	1.0	0.56
	iS	11 03.0	N'		
12.	iP	11 43 55.4	Z	1.0	0.48
	iS	45 35.0	E		
13.	iP	14 11 41.0	Z	0.7	0.08
	iS	12 02.3	E		
14.	iP	14 21 42.5	Z	1.1	0.77
	iS	23 50.0	E'		
	(LR)	23 53.0	Z'		

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
23 APR.					
15.	iP	17 19	Z	0.5	0.15
	iS	20 08.5	N		
16.	i(P)	18 35	E		
17.	i(P)	18 51	Z		
	iS	51 35.5	N		
24 APR.					
1.	iP	03 25	Z		
	iS	26 15.0	E		
2.	iP	13 39	NEZ	0.8	7.12
	iS	40 06.0	N'E'		
3.	iP	20 44	Z		
	iS	45 36.5	N		
4.	i(P)	21 18	E		
5.	i(P)	21 25	Z		
	iS	25 32.0	E		
25 APR.					
1.	i(P)	01 35	Z		
2.	iP	03 20	Z	0.8	0.40
	iS	20 45.0	E		
3.	iP	04 38	Z	0.7	0.39
	iS	38 49.0	N		
4.	iP	12 03	Z	1.0	0.72
	iS	05 00.0	E		
5.	iP	13 59	Z	0.6	0.65
	iS	59 24.8	NE		
6.	iP	15 31	Z		
	iS	31 48.0	NE		
7.	iP	20 12	Z		
26 APR.					
1.	eX	11 01	Z'		
2.	iP	11 06	Z		
	iS	07 17.0	E'		

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Date	Phase	Time (GMT)	Comp.	T_z (sec)	A_z (micron)
26 APR.					
3.	iP	14 01	Z	25.0	
	iS	01 42.5	E, N, E'		
4.	iP	16 47	Z	32.5	1.0
	iS	48 01.0	E		0.32
5.	iX	16 57	N	36.0	
6.	i(P)	20 40	Z	23.5	
	eS	41 11.0	E'		
7.	eX	23 48	Z'	27.0	
27 APR.					
1.	iX	01 27	E	43.5	
2.	iX	02 10	N	42.0	
3.	iX	04 03	E	30.8	
4.	iX	04 12	E	24.0	
5.	iX	05 59	E	48.0	
6.	i(P)	07 17	E	37.0	
7.	i(P)	11 18	Z	42.0	
8.	i(P)	11 22	Z	02.8	
	iS	22 11.5	N		
9.	iP	12 14	Z	13.5	0.5
	iS	14 22.0	E		0.93
10.	iP	12 15	Z	43.8	0.5
		15 52.0	E		0.93
11.	iP	17 25	Z	39.0	0.5
	iS	25 47.5	E		0.23
12.	iP	18 28	Z	42.2	
	iS	29 00.9	E		
13.	i(P)	18 56	Z	12.8	
	(LR)	58 51.0	Z'		
14.	iP	19 02	Z	24.0	
	iS	02 46.2	E		

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
27 APR.					
15.	iP	19 03 36.5	Z	0.8	3.98
	iS	12 03 54.0	E'		
16.	iP	19 16 19.0	Z	0.7	0.33
	iS	15 16 41.5	E		
17.	eX	20 21 06.0	N'		
18.	iP	20 32 04.2	Z	0.5	0.62
	iS	13 32 13.0	N		
19.	iX	21 50 42.8	E		
20.	eX	23 03 30.0	N'		
21.	i(P)	23 58 35.0	E		
28 APR.					
1.	iX	01 26 25.0	E		
2.	eX	01 42 35.0	E'		
3.	eX (LR)	01 54 06.0 20 59 41.0	N' Z'		
4.	i(P) iS	03 30 42.2 20 30 54.0	E E		
5.	iP iS	04 31 44.0 23 31 52.6	Z E	0.4	0.24
6.	i(P)	11 54 13.0	E		
7.	iX	13 00 34.5	E		
8.	eP e(PP) ePPP eS e(SeS) eSS LQ LR	17 07 03.5 09 08.0 11 10.0 15 54.5 17 12.0 19 52.0 24 34.0 28 03.0	Z' Z' Z' E' E' N' N' Z'	0.7	0.08
9.	i(P) iS	22 28 31.5 28 35.5	Z E		

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
1 MAY					
1.	i(P)	03 23 50.3	Z		
2.	i(P)	04 28 59.0	Z		
3.	iP	07 51 33.0	Z	0.5	0.08
4.	i(P)	10 18 21.0	Z'		
	e(S)	21 17.5	E'		
5.	e(P)	10 57 13.0	Z'		
	eJ	11 01 52.0	E'		
6.	iP	12 08 19.5	Z	0.9	0.13
	eJ	09 31.0	N'		
7.	iP	13 01 54.5	Z	0.8	0.12
8.	iP	13 19 28.0	Z	0.9	0.13
	iS	23 41.0	N'		
9.	iP	16 42 40.0	Z'		
	eX	46 57.0	Z'		
	LR	17 09 25.0	Z'		
10.	iP	19 22 22.2	Z	0.5	0.10
	iS	23 05.0	E'		
11.	i(P)	21 25 30.0	Z		
	iS	25 52.8	N'E		
12.	iP	23 38 19.3	Z	0.7	0.10
2 MAY					
1.	eP	09 53 31.0	Z'		
	eJ	10 04 13.0	E'		
2.	i(P)	13 33 12.0	Z		
	iX	34 05.0	E'		
3.	iP	14 41 05.0	Z		
4.	iP	16 44 01.0	Z		
	iS	47 43.0	E'		
5.	i(P)	19 56 04.5	Z		

Date	Phase	Time (GMT)	Comp.	T_z (sec)	A_z (micron)
3 MAY					
1.	eX	13 16 56.0	N'		
2.	eX	13 54 41.0	N'		
3.	eX	14 08 38.0	E'		
4.	iP	18 47 32.0	Z	1.0	0.16
	eS	50 39.0	N'		
	LR	51 26.0	Z'		
5.	iP	22 00 04.3	Z	0.7	0.23
	iS	00 18.5	E		
4 MAY					
1.	iX	05 42 52.5	E		
2.	i(P)	17 05 58.0	E		
	eS	07 50.0	E'		
	(LR)	08 11.5	Z'		
5 MAY					
1.	eX	01 42 24.0	Z'		
	LR	43 10.0	Z'		
2.	iP	02 15 51.8	Z	0.7	0.24
	iS	17 18.0	N'		
3.	iP	06 35 58.0	Z	1.3	1.47
	iS	36 27.0	E'		
4.	iX	09 11 41.5	Z		
5.	eP	14 25 23.5	Z'	0.7	0.08
	iX	25 42.0	Z'		
	i(S)	28 34.0	E'		
	LR	28 54.0	Z'		
6.	iP	14 30 55.0	Z	0.5	0.14
	iS	31 17.2	E		
7.	i(P)	19 13 22.0	Z	0.3	0.10
	iS	13 26.5	E		
8.	eX	20 44 07.0	E		

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
5 MAY					
9.	iP	22 16	Z	0.5	0.07
	i(S)	16 39.5	E		
6 MAY					
1.	eX	03 57	Z'		
	eX	04 01	E'		
2.	iP	04 19	Z		
3.	iP	07 03	Z	0.9	0.27
	iS	05 03.0	E'		
4.	eX	10 22	E'		
5.	iP	12 23	Z	0.9	2.07
	iS	23 34.0	E'		
6.	iP	14 16	Z		
	iS	16 31.5	E		
7.	iP	16 12	Z		
	e(S)	16 23.0	E'		
	LR	18 10.0	Z'		
8.	iP	18 30	Z		
	iS	30 26.8	E		
9.	iX	20 16	E		
10.	iX	23 11	E		
7 MAY					
1.	iP	04 10	Z		
2.	iP	06 27	Z		
3.	iP	06 51	Z		
4.	iP	09 50	Z	1.0	1.12
	iS	52 17.0	N'		
	(LR)	52 47.0	Z'		
5.	iP	10 00	Z	0.7	0.39
	iS	00 35.0	N		

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
7 MAY					
6.	eX	14 07 33.0	Z'		
7.	iP	14 18 29.7	Z		
	iS	18 32.5	NE		
8.	iP	16 24 18.0	Z,Z'		
	iS	24 54.0	E'		
9.	i(P)	16 36 48.0	Z		
	iS	37 07.0	E		
10.	i(P)	18 16 48.0	Z		
11.	iP	18 29 51.8	Z		
12.	iP	21 21 41.7	Z		
8 MAY					
1.	i(P)	11 48 29.0	N		
	iS	48 36.0	N		
2.	e(P)	12 31 14.0	Z'		
	eS	35 47.0	E'		
	(IQ)	36 25.0	N'		
	LR	38 03.0	Z'		
3.	iP	15 27 27.8	Z	0.8	0.23
	iS	27 44.5	E,E'		
4.	iP	15 49 29.7	Z	0.4	0.33
	iS	49 43.5	E		
5.	iP	19 41 36.0	Z	0.3	0.10
	iS	41 57.0	NE		
9 MAY					
1.	iP	01 29 38.8	Z	0.6	0.85
	iS	29 56.8	N		
2.	eX	01 30 06.0	N'		
	LR	33 11.0	Z'		
3.	i(P)	01 58 37.0	Z		
	iS	02 00 00.0	N'		

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
9 MAY					
4.	iX	02 18 04.8	E		
5.	i(P)	02 44 45.5	E		
6.	iS	03 46 59.0	N		
7.	iX	05 06 02.5	E		
8.	iP	05 41 42.5	N		
	iS	41 46.3	N		
9.	iP	08 38 54.0	Z	0.5	0.10
10.	iP	11 51 16.5	Z	0.5	0.21
	iS	51 25.9	NE		
11.	eX	15 43 26.0	Z'		
	LR	50 42.0	Z'		
12.	iP	20 22 00.5	Z	0.3	0.20
	iS	22 05.8	E		
13.	eX	20 25 15.0	E'		
	LR	35 52.0	Z'		
14.	eX	21 38 13.0	E'		
15.	i(P)	23 45 38.5	Z		
	i(S)	46 33.0	E		
10 MAY					
1.	iS	02 23 15.0	NEZ		
2.	iX	02 59 29.5	N		
3.	iP	11 21 49.0	Z		
	eS	22 43.0	N'		
4.	iP	13 30 01.2	Z		
	iS	30 12.6	N		
5.	(LR)	20 52 40.0	Z'		
6.	eX	21 20 14.0	N'		
	eX	23 54.0	N'		

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Date	Phase	Time (GMT)		Comp.	T_z (sec)	A_z (micron)	
11 MAY							
1.	iP	03	00	35.0	Z	0.5	0.31
2.	iP	04	50	35.0	Z		
	iS		50	54.8	N		
3.	iP	04	53	37.5	Z		
4.	iP	07	33	37.5	Z		
5.	i(P)	13	27	51.0	Z		
6.	eP	14	26	23.0	Z'		
	eS		34	08.0	N'		
	(LR)		41	13.0	Z'		
7.	iP	16	56	17.8	Z		
	iS		56	41.5	E		
8.	iP	18	12	25.0	Z		
	iS		13	23.0	E		
9.	eP	21	48	22.0	Z, Z'		
	eS		55	33.0	E'		
10.	i(P)	23	46	54.5	Z		
12 MAY							
1.	iP	00	35	39.0	Z	0.5	0.41
	iS		36	02.0	E		
2.	i(S)	01	56	32.0	NE		
3.	eP	04	08	07.5	E		
	iS		09	18.0	E'		
4.	eP	06	35	19.0	Z'		
	eS		38	31.0	E'		
	LR		39	54.0	Z'		
5.	i(P)	07	04	36.0	Z		
	iS		04	42.5	E		
6.	iX	12	08	49.7	N		

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Date	Phase	Time (GMT)			Comp.	T_z (sec)	A_z (micron)
12 MAY							
7.	eX	12	16	30.0	Z'		
	eX		24	11.0	E'		
	LR		35	04.0	Z'		
13 MAY							
1.	iX	00	10	28.5	N		
2.	eX	05	35	42.0	N'		
3.	eX	07	14	32.0	N'		
	LR		15	39.0	Z'		
4.	i(P)	09	36	05.4	N		
	iS		36	31.0	E		
5.	iP	10	20	57.0	Z, Z'	0.8	4.40
	iS		21	17.5	E, N' E'		
6.	iX	13	02	57.5	N'		
7.	eX	19	35	54.0	N'		
	LR		38	58.0	Z'		
8.	iX	23	18	03.0	E		
9.	iP	23	49	41.8	Z	0.5	0.19
	iS		50	00.7	E		
14 MAY							
1.	i(S)	03	12	49.2	E		
2.	i(P)	05	24	40.5	N		
	iS		24	44.8	E		
3.	i(P)	07	11	37.0	Z	0.5	0.10
	iS		11	51.5	NE		
4.	iP	12	05	17.8	Z	0.7	0.10
	eS		06	20.0	E'		
5.	iX	14	15	21.0	N		
	i(S)		16	04.5	E		
6.	eX	15	05	10.0	Z'		

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Date	Phase	Time (GMT)	Comp.	T_z (sec)	A_z (micron)
14 MAY					
7.	e(P)	17 11	Z'	36.0	
	eS	16	N'	37.0	
8.	eX	17 12	E'	20.0	
9.	iP	21 35	Z	42.5	0.5
	iS	36	NE	02.5	0.23
15 MAY					
1.	iX	00 29	Z	52.5	
2.	iP	12 17	Z	03.0	0.5
	iS	17	N	24.8	0.83
3.	e(P)	14 56	Z'	35.0	
	eS	15 05	E'	14.0	
	(LR)	15	Z'	35.0	
4.	iP	16 13	Z	55.5	
	iS	14	E	12.3	
5.	iX	23 56	E	55.0	
16 MAY					
1.	iP	02 49	Z, Z'	58.5	1.0
	iS	52	E'	41.0	0.88
2.	iP	05 02	Z	10.0	0.5
	iS	02	NE	27.0	0.13
3.	iX	06 15	Z	53.3	
4.	eP	08 31	Z'	34.0	
	e(S)	33	E'	20.0	
5.	eX	13 16	Z'	34.0	
	LR	18	Z'	10.0	
6.	e(P)	20 14	Z'	46.0	
	e(S)	17	E'	11.0	
	LR	17	Z'	42.0	
7.	i(P)	22 08	Z	24.3	
	iS	08	E	34.0	

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
17 MAY					
1.	eX	01 12 33.0	Z'		
2.	iX	03 09 30.0	N		
3.	i(P)	04 34 13.0	N		
4.	LR	05 54 20.0	Z'		
5.	eX	07 28 15.0	Z'		
6.	(LR)	07 49 15.0	Z'		
7.	iS	09 36 52.8	E		
8.	iS	22 41 35.5	N		
18 MAY					
1.	iP	05 42 41.5	Z		
	iS	43 11.5	N		
2.	eX	08 02 10.0	Z'		
3.	LR	08 25 37.0	Z'		
4.	iP	12 54 32.0	Z, Z'	1.3	0.48
	iS	56 40.0	E'		
5.	iP	15 46 54.0	Z		
	iS	47 13.0	E, E'		
6.	eP	17 28 03.5	Z	1.2	0.23
	eX	29 35.0	N'		
	eX	31 56.0	E'		
7.	iP	18 14 02.5	Z		
	iS	14 14.5	N		
8.	iS	18 15 20.5	NE		
9.	iP	18 25 26.5	Z		
	iS	25 41.0	E		
10.	eX	22 54 41.2	Z'		

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Date	Phase	Time (GMT)			Comp.	T_z (sec)	A_z (micron)
19 MAY							
1.	IX	06	39	27.0	E		
2.	iP	07	17	55.0	Z'	0.7	0.12
	ePP		20	49.0	Z'		
	iS		27	20.0	E'		
	eSS		32	41.0	N' E'		
	LQ		36	54.0	E'		
	LR		40	36.0	Z'		
3.	iP	10	23	26.8	NZ	0.6	0.23
	iS		23	58.0	E		
4.	IX	10	58	36.5	N		
5.	iS	12	56	47.5	NE		
6.	eX	13	58	20.0	E		
7.	i(3)	21	26	51.7	N		
20 MAY							
1.	iP	01	54	47.0	Z, Z'	0.8	1.60
	iS		55	02.0	E'		
2.	eP	02	53	03.0	Z'		
	eS	03	01	32.0	N' E'		
3.	iP	06	58	46.0	Z, Z'	0.8	5.03
	iS		59	06.5	N' E'		
4.	iP	09	19	34.0	Z'		
	iS		23	40.0	N' E'		
	(LR)		25	29.0	Z'		
5.	i(P)	18	05	43.0	Z		
	iS		08	17.5	E'		
	LR		09	20.0	Z'		
21 MAY							
1.	iS	07	31	44.0	NE		
2.	iP	09	53	58.0	Z	0.8	0.94
	iS		54	18.5	NE		

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Date	Phase	Time (GMT)	Comp.	T_z (sec)	A_z (micron)
21 MAY					
3.	iP	14 27	Z	0.6	0.22
	iS	28 00.5	E		
4.	iP	14 52	Z		
5.	iP	17 44	Z	0.9	0.60
	iS	44 59.0	N' E'		
6.	iP	18 42	Z, Z'	0.5	1.28
	iS	43 20.0	E'		
7.	iP	23 15	Z		
	iS	15 30.0	E		
22 MAY					
1.	eIP	00 16	Z		
	iS	16 47.0	E		
2.	eX	03 05	N'		
	(LR)	07 57.0	Z'		
3.	(LR)	08 37	Z'		
4.	iP	10 38	Z'	0.8	0.97
	iS	38 46.0	NE, N' E'		
5.	iX	14 17	N		
6.	iP	15 38	Z		
	iS	39 05.0	E		
23 MAY					
1.	eX	00 46	Z'		
2.	iX	05 04	N		
3.	eX	06 25	N'		
	(LR)	29 50.0	Z'		
4.	eX	07 16	Z'		

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)	
23 MAY						
5.	iP	08. 45	23.5	Z'	0.8	0.11
	ePPP	46	24.0	E'		
	iS	50	01.5	N'		
	LQ	51	10.0	E'		
	LR	52	24.0	Z'		
6.	i(S)	09 52	52.3	E		
7.	i(S)	10 50	27.5	N		
8.	LR	12 46	17.0	Z'		
9.	i(P)	14 13	24.0	E		
	iS	13	43.0	N		
10.	iP	14 27	21.0	Z'	1.7	0.46
	iS	31	34.0	N, E'		
	(LR)	33	39.0	Z'		
11.	i(P)	20 51	32.0	E		
12.	eX	20 55	40.0	Z'		
	e(S)	56	56.0	N'		
24 MAY						
1.	iP	00 14	18.5	E	0.7	0.24
	iS	14	57.5	E		
2.	i(P)	05 28	41.0	E		
3.	eX	08 06	21.0	E'		
4.	eX	08 13	43.0	Z'		
5.	iX	12 01	38.3	E		
6.	iS	12 02	16.5	NE		
7.	eX	15 59	22.0	N'		
	eX	16 16	56.0	N'		
8.	i(P)	18 06	35.5	Z		
	iS	06	56.5	E		
9.	iX	19 10	23.5	N		

Date	Phase	Time (GMT)			Comp.	T _z (sec)	A _z (micron)
24 MAY							
10.	LR	21	12	35.0	Z'		
11.	iP	21	22	53.4	Z	0.3	0.14
	i(3)		23	11.0	E		
25 MAY							
1.	iP	08	32	26.2	Z		
	iS		35	01.0	E'		
	(LR)		36	54.0	Z'		
2.	eP	12	16	18.0	Z'		
	eS		23	34.0	E'		
	iQ		28	43.0	N'		
	LR		31	42.0	Z'		
3.	eP	13	31	44.5	Z, Z'	2.0	3.20
	eX		48	02.0	N'		
	(LR)		52	20.0	Z'		
26 MAY							
1.	iP	09	09	02.5	Z	0.8	0.43
	iS		09	21.7	E, N' E'		
2.	i(3)	10	13	58.8	N		
3.	iP	12	06	12.5	Z	0.8	0.15
	eS		07	28.0	N'		
4.	i(F)	12	36	01.3	Z		
5.	LR	12	52	30.0	Z'		
6.	eX	18	41	09.0	Z'		
	iX		48	26.0	E'		
7.	i(P)	21	17	37.0	Z	0.9	0.13
	iS		20	05.0	E'		
8.	iP	22	15	03.5	Z, Z'	1.1	1.30
	iS		16	32.0	N'		
9.	e(P)	23	04	10.0	E'		
	eS		08	11.5	E'		
	LR		09	54.0	Z'		

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Date	Phase	Time (GMT)	Comp.	T_z (sec)	A_z (micron)
27 MAY					
1.	iX	00 15 01.0	N		
2.	iP	10 11 18.0	Z	0.9	1.60
	iS	12 33.0	E'		
	(LR)	13 22.0	Z'		
3.	i(P)	16 40 11.0	Z		
28 MAY					
1.	iP	00 07 42.0	NEZ, Z'		
	eX	11 29.0	Z'		
2.	eX	05 34 40.0	N'		
3.	iX	05 57 30.0	E		
4.	eX	06 00 26.0	N'		
	(LR)	01 27.0	Z'		
5.	i(P)	16 49 53.0	Z		
	iS	50 41.5	E		
6.	i(P)	18 33 57.0	Z		
7.	iP	21 21 59.5	Z	0.7	1.34
	iS	22 20.0	E		
29 MAY					
1.	iP	11 30 28.0	Z		
	iS	30 47.0	NE		
2.	iP	13 54 02.2	Z	1.0	0.48
	i(S)	56 46.0	N'		
3.	iX	22 47 14.0	E		
30 MAY					
1.	iX	04 04 12.0	E		
	i(S)	04 21.0	N		
2.	i(P)	05 40 44.5	N		
	i(S)	41 06.3	N		

Date	Phase	Time (GMT)	Comp.	T ₂ (sec)	A _Z (micron)
30 MAY					
3.	iP	11 39 30.3	Z	0.5	0.10
	iS	39 41.0	N		
4.	iP	12 32 43.8	Z	0.6	0.40
	iS	32 51.5	E'		
5.	e(P)	13 09 56.0	Z		
	iS	10 08.5	NE		
6.	iP	14 22 40.5	Z	0.5	0.72
	iS	23 00.5	E		
7.	iP	15 31 08.5	Z	0.8	0.29
	eS	31 22.0	N'		
8.	i(P)	16 05 16.8	Z	0.7	0.05
	iS	05 46.7	NE		
9.	iX	16 40 30.5	N'		
	IR	41 11.0	Z'		
10.	iS	17 19 08.0	E		
11.	eX	19 05 26.0	N'		
12.	iP	19 28 44.0	Z	0.8	0.48
	iS	29 07.5	E		
13.	e(P)	19 52 01.0	E		
14.	iX	21 55 14.0	Z		
15.	iX	23 16 41.5	N		
31 MAY					
1.	i(P)	05 42 28.5	E		
	iS	42 40.8	NE		
2.	iP	07 33 17.9	N		
	iS	33 21.5	N		
3.	eX	08 03 33.0	Z'		
4.	IR	08 17 10.0	Z'		

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Date	Phase	Time (GAT)	Comp.	T _Z (sec)	A _Z (micron)
31 MAY					
5.	eX	12 40	11.0	Z'	
6.	iX	19 29	07.7	N	
7.	eX	20 23	58.0	Z'	

Date	Phase	Time (GMT)			Corr.	T ₂ (sec)	A ₂ (micron)
1 JUNE							
1.	eX	04	01	32.0	N ¹		
	eX		02	24.0	Z ¹		
2.	iP	04	35	47.5	Z	0.5	0.16
3.	eX	10	23	04.0	Z ¹		
	eX		29	51.0	E ¹		
	LR		38	12.0	Z ¹		
4.	iP	11	58	18.0	Z, Z ¹	0.6	0.10
	iS	12	07	02.0	E ¹		
	eScS		08	26.0	N ¹		
	LQ		14	24.0	E ¹		
	G		15	53.0	N ¹		
	LR		19	39.0	Z ¹		
5.	e(P)	14	14	16.0	E		
	i(S)		15	19.0	E		
2 JUNE							
1.	iP	07	09	56.0	Z ¹	1.2	4.45
	iS		11	20.0	E ¹		
2.	i(P)	07	36	06.0	Z		
	iS		36	24.5	E		
3.	iP	09	02	18.0	Z		
	iS		02	36.0	E		
4.	iX	13	50	35.5	E	0.5	0.16
5.	i(P)	15	22	05.5	E		
6.	iX	15	31	41.0	E		
7.	i(P)	16	33	40.0	Z	0.6	0.10
	eX		34	11.0	E ¹		
8.	eX	17	13	31.0	Z ¹		
	(IR)		26	13.0	Z ¹		
9.	i(P)	19	47	08.3	Z		
	iS		49	13.0	N ¹ Z ¹		
3 JUNE							
1.	eX	04	18	31.0	E ¹		
2.	iP	08	42	41.0	Z, Z ¹	0.6	0.40
	i(S)		43	35.0	N ¹		
3.	i(P)	08	44	19.5	Z		
	iS		44	40.0	N ¹		

Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
3 JUNE							
4.	iP	18	24	35.5	Z, Z'	0.8	1.76
	iS		24	53.8	NE, N'		
5.	eX	18	51	33.0	Z'		
	(LR)		55	13.0	Z'		
6.	iP	19	22	38.7	Z	0.5	0.07
	eS		24	02.0	N'		
7.	iX	20	13	11.0	N		
8.	iX	20	43	43.8	N		
9.	i(P)	22	05	19.5	Z		
	iS		05	27.0	E		
10.	i(S)	23	02	43.8	E		
4 JUNE							
1.	iP	01	01	56.3	Z	0.3	0.30
	iS		01	19.0	E		
2.	iP	01	36	46.5	E		
	i(S)		38	09.0	E'		
	(LR)		39	31.0	Z'		
3 JUNE							
3.	iX	05	21	30.5	N		
4.	eX	05	29	11.0	Z', Z''	0.8	1.76
5.	eX	13	01	42.0	Z'		
	(LR)		03	06.0	Z'		
6.	iP	14	30	41.0	Z, Z'	1.2	5.72
	iS		31	13.5	N' E'		
7.	iP	15	32	10.0	Z, Z'	0.9	2.80
	i(S)		32	34.0	E		
8.	iP	15	41	18.8	Z	1.0	3.52
	iS		41	30.0	E'		
9.	iP	15	58	11.7	Z	1.0	2.96
	iS		58	20.0	E'		
10.	i(S)	23	02	43.8	E		
4 JUNE							
10.	iP	16	14	26.0	Z	0.5	0.08
	iS		14	56.3	N	0.3	0.30
11.	i(P)	16	21	13.0	E		
	iS		21	34.2	E		
12.	iX	16	26	01.0	N		

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 Date : Phase : Time (GMT : Comp. : T_z(sec) : A_z(micron)

4 JUNE

Date	Phase	Time (GMT)	Comp.	T _z (sec)	A _z (micron)
13.	iX	16 38	05.0	N	
14.	iX	16 47	06.5	E	
15.	iX	16 49	57.5	E	
16.	iX	17 03	22.0	E	
17.	iX	17 17	02.4	E	
18.	i(P)	17 18	14.8	E	
	iS	18 18	46.3	E	
19.	i(P)	17 27	42.5	Z	
	eS	28 28	20.0	E'	
20.	iX	17 44	24.0	N	
21.	iP	18 24	47.2	Z	
	iS	25 25	12.0	E, E'	
22.	iP	18 57	59.0	N	
	eS	58 58	50.0	E'	
23.	i(P)	23 28	42.8	Z	0.4
	iS	28 28	53.5	E	0.10
24.	iP	23 56	38.0	Z'	1.7
	ePP	58 58	39.0	Z'	0.91
	ePPP	00 00	07.0	Z'	
	eS	03 03	22.0	E'	
	eScS	06 06	38.0	E'	
	eSS	07 07	14.0	N'	
	LQ	09 09	29.0	E'	
eX	09 09	44.0	Z'		
LR	10 10	19.0	Z'		

5 JUNE

5 JUNE

1.	i(P)	01 22	40.0	N	
2.	iP	03 44	49.0	Z	0.6
	i(S)	45 45	00.0	E	0.10
3.	e(P)	04 54	15.0	E'	
	eS	57 57	27.0	E'	
4.	i(P)	06 19	42.0	N	
5.	i(P)	06 35	53.6	N	

Date	Phase	Time (GMT)	Comp.	T _z (sec)	A _z (micron)
5 JUNE					
6.	iP	11 23	30.0	Z	0.5 0.07
	iS	24	54.5	N	
7.	iP	11 44	44.3	Z	0.5 0.10
	iS	45	16.2	E	
8.	iP	12 23	41.5	Z	0.7 0.10
	eS	24	55.0	N'	
9.	iX	12 58	01.0	E	
10.	i(s)	13 14	04.5	N	
11.	iX	13 46	50.5	E	
12.	e(P)	14 04	01.0	Z'	
	eS	06	49.0	N'	
13.	iP	16 16	49.5	Z, Z'	1.0 0.51
	iS	17	20.0	E'	
14.	iP	17 45	38.5	Z	0.8 0.11
	eS	46	13.0	N' E'	
15.	iX	18 17	18.7	Z	
16.	i(P)	18 22	57.0	Z	
	i(S)	23	34.0	E'	
17.	i(P)	18 28	03.9	N	
	i(S)	28	31.7	E	
18.	eX	20 25	34.0	Z'	
	eX	26	18.0	E'	
19.	iP	20 59	24.0	Z	0.7 0.19
	iS	59	58.0	E'	
20.	iP	22 33	50.8	Z	0.5 0.07
	iS	34	21.0	E	
6 JUNE					
1.	iS	00 14	51.0	N	
2.	i(s)	00 17	23.0	E	
3.	iS	00 20	02.5	E	
4.	eP	01 54	16.0	Z'	
	eS	02 01	11.0	E'	
	(LQ)	07	42.0	N'	
	LR	09	12.0	Z'	

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Date	Phase	Time (GMT)			Comp.	T_p (sec)	A_p (micron)
6 JUNE							
5.	iP	07	55	44.5	Z	1.7	4.07
	iS	08	03	28.5	E'		
6.	iP	17	19	13.3	Z		
	iS		19	36.0	E		
7.	iP	19	48	48.0	Z		
	iS		49	02.0	N'		
8.	iP	20	03	23.5	Z		
	iS		03	49.0	N'		
9.	iP	20	16	55.5	Z		
	i(S)		17	20.0	E'		
10.	iP	20	47	54.0	Z, Z'		
11.	iP	21	21	35.2	Z		
12.	iP	21	31	24.0	Z		
13.	i(P)	21	39	38.5	Z		
14.	iP	22	15	21.0	Z		
15.	iP	23	08	18.8	Z		
16.	iP	23	17	19.0	Z		
17.	iP	23	31	50.0	Z		
18.	iP	23	37	18.5	Z		
19.	iP	23	55	24.0	Z		
7 JUNE							
1.	iP	00	00	07.5	Z		
2.	eP	01	19	42.0	Z		
	eS		30	48.0	E'		
	eX		34	16.0	E'		
3.	iX	02	34	09.0	E		
4.	i(P)	02	52	26.5	Z		
5.	i(P)	03	01	10.0	E		
6.	LR	03	12	38.0	Z'		

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Date	Phase	Time (GMT)		Comp.	T _Z (sec)	A _Z (micron)
7 JUNE						
7.	LR	03	12	38.0	Z'	
8.	iP	04	33	05.5	Z	
	iS		33	43.0	E	
9.	i(P)	04	41	53.5	Z	
	iS		42	12.0	E	
10.	iP	05	03	11.0	Z	
	iS		03	43.0	E'	
11.	iP	06	15	17.5	Z	
	iS		15	26.0	E	
12.	iP	08	37	56.5	Z	
	iS		38	30.0	N'	
13.	iP	09	31	20.0	Z	
	iS		31	46.0	E'	
14.	iP	10	15	28.5	Z	
	iS		16	14.0	N'	
15.	iP	11	49	10.0	Z	
	eS		52	12.0	N'	
	LR		53	40.0	Z'	
16.	iP	12	59	51.0	Z	
	iS	13	00	14.5	E	
17.	iP	13	29	19.5	Z	
	iS		29	54.0	N'E'	
18.	eP	14	03	01.0	Z	1.7
19.	i(P)	14	38	07.0	Z	12.70
20.	iX	15	01	10.5	N	
21.	iS	15	53	34.0	NE	
22.	iP	16	33	50.5	Z	
	iS		33	59.5	E	
23.	iP	17	42	35.0	Z	
	iS		43	10.8	E	
24.	iP	18	26	12.7	Z	
	iS		26	51.0	N	

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Date	Phase	Time (GMT)			Comp.	T_z (sec)	A_z (micron)
7 JUNE							
25.	iP	19	15	05.0	Z		
26..	iX	21	11	56.0	N		
27.	eX	22	02	18.0	N ^W		
28.	iP	22	21	31.0	Z		
	eS		28	32.0	E'		
	(LR)		35	20.0	Z'		
29.	iS	23	43	56.0	Z'		
8 JUNE							
1.	iP	02	34	54.0	Z	0.6	0.20
	iS		35	17.5	E		
2.	e(P)	02	39	52.0	Z	1.0	0.88
	iS		40	28.0	N ^W E'		
3.	eP	03	40	10.0	Z'		
4.	i(P)	03	46	17.5	E		
	iS		47	15.0	E'		
5.	i(P)	04	49	41.0	Z	0.6	0.10
	iS		50	14.0	E'		
6.	i(P)	06	47	39.5	E		
	eX		50	31.0	Z'		
7.	eX	07	03	36.0	Z'		
8.	eP	10	49	59.0	Z'		
	eX		53	17.0	E'		
	LR		54	08.0	Z'		
9.	eP	12	04	13.0	Z'		
	eS		04	58.0	E'		
	eX		05	28.0	N'		
10.	i(P)	16	49	40.0	N		
	i(S)		50	16.3	N		
11.	iP	19	04	24.7	Z, Z'	0.7	0.10
	iS		04	51.0	N'		
12.	iX	20	04	18.5	Z		
13.	eX	20	14	29.0	E'		
	eX		21	10.0	Z'		

Date	Phase	Time (GMT)	Comp.	T (sec)	A (micron)
8 JUNE					
14.	iP	20 53	Z	0.8	0.34
	iS	54	E'		
15.	iP	21 00	Z		
	iS	01	E'		
16.	iP	21 40	Z	0.5	0.08
	iS	40	E'		
17.	iP	21 44	Z	0.5	0.21
	iS	44	E'		
18.	iP	22 02	Z	0.5	0.09
	iS	02	E'		
19.	i(P)	23 27	E		
	i(S)	27	E		
9 JUNE					
1.	eP	00 18	Z'		
	eX	24	N'		
	eX	25	N'		
2.	eX	01 35	Z'		
3.	iX	02 21	E		
4.	iP	04 34	Z		
	iS	35	E'		
5.	i(P)	05 12	Z		
	iS	13	E'		
6.	iP	05 41	Z		
	iS	42	N'		
7.	iP	05 48	Z		
	iS	49	E'		
8.	i(P)	08 38	Z		
	iS	39	E		
9.	iP	08 51	Z		
	eX	52	E'		
10.	iP	08 54	Z		
	eS	54	E'		
11.	i(P)	09 18	N		
	iS	18	N, E'		

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
9 JUNE					
12.	eX	11 32 05.0	E'		
13.	iP	12 57 06.0	Z		
	eS	57 38.0	E'		
14.	iP	13 13 37.0	Z		
	e(S)	13 53.0	E'		
15.	i(P)	13 35 38.0	E		
	eS	36 02.0	E'		
16.	iP	15 20 34.5	Z		
	eS	21 14.0	N'		
17.	eP	15 47 08.0	Z'		
	eS	53 21.0	E'		
18.	eiP	17 55 39.5	Z		
	iS	56 05.0	E'		
19.	iP	18 10 22.0	Z		
	eX	10 58.0	N'		
20	iX	18 23 06.5	N		
21	eP	22 22 10.0	Z'		
	eS	28 22.0	N'		
22.	iP	22 52 59.0	Z		
10 JUNE					
1.	eX	01 34 09.0	N'		
2.	i(P)	01 42 07.5	Z		
3.	eX	04 53 36.0	Z'		
4.	iP	06 15 30.0	Z'		
	iS	16 05.0	E'		
5.	eX	07 06 13.0	N'		
6.	i(P)	07 28 40.0	Z		
	iS	29 29.0	N'		
7.	iP	09 08 08.8	Z		
	eS	08 34.0	E'		

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

10 JUNE

8.	eX	10 51	54.0	E'		
9.	e(P)	12 21	52.0	Z'		
	e(S)	25	43.0	E'		
10.	iP	12 31	40.0	Z		
11.	iP	12 33	03.5	Z		
	iS	33	38.5	E'		
12.	iP	15 26	41.0	Z	0.8	0.29
	iS	27	18.0	E'		
13.	i(P)	15 56	26.0	Z		
14.	i(P)	17 00	19.0	E'		
15.	iP	21 10	47.3	Z		
16.	iX	22 10	36.0	E		
17.	iP	22 16	13.0	Z		
	eS	16	43.0	E'		

11 JUNE

1.	iP	02 48	26.0	Z	1.0	1.28
	iS	49	07.0	N'		
2.	iP	02 59	17.5	Z		
	eS	59	50.0	E'	0.8	0.40
3.	iP	03 41	04.0	Z		
	iS	41	42.0	E'		
4.	iP	03 48	35.0	Z		
5.	i(P)	04 04	08.5	Z		
6.	i(P)	04 16	16.0	Z		
7.	iP	05 22	41.0	Z		
	iS	23	17.0	N' E'		
8.	iP	08 09	04.0	Z		
	iS	09	20.0	NE		
9.	e(P)	11 19	06.0	Z'		
10.	iP	12 55	51.0	Z		

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Date	Phase	Time (GMT)	Comp.	T_z (sec)	A_z (micron)
11 JUNE					
11.	iX	14 58 24.0	N		
12.	LR	18 43 08.0	Z'		
13.	iP	18 56 06.7	Z		
	iS	56 41.0	E		
14.	i(P)	18 58 16.0	Z		
	iS	58 38.0	E		
15.	iP	20 40 08.5	Z		
	iS	40 24.0	N		
16.	iX	22 20 50.0	E		
17.	iP	22 42 15.5	Z		
	eS	42 50.0	N'		
12 JUNE					
1.	iP	00 20 18.0	Z		
2.	iP	05 51 31.2	Z	1.0	0.45
	iS	52 00.8	E		
3.	eX	07 30 10.0	N'		
4.	i(P)	09 12 12.2	Z		
	iS	12 52.0	N'		
5.	iP	09 59 06.0	Z	0.8	0.17
	iS	59 45.0	E'		
6.	i(P)	11 24 29.3	Z	0.5	0.10
	e(S)	25 17.0	N'		
7.	iX	12 32 46.5	Z		
8.	e(P)	13 57 37.0	Z	0.7	0.05
	iS	58 12.0	N		
9.	i(P)	20 15 13.5	Z		
	iS	15 51.5	E'		
13 JUNE					
1.	iP	01 32 21.9	Z	0.7	0.24
	iS	32 45.0	E'		
2.	i(P)	01 41 23.3	Z		
	iS	42 14.0	E'		

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Date	Phase	Time (GMT)	Comp.	T_z (sec)	A_z (micron)
13 JUNE					
3.	iP	02 38 55.4	Z	0.5	0.13
	iS	40 05.2	E		
4.	eP	07 42 42.0	Z'		
	e(PF)	45 17.0	Z'		
	e(PPP)	46 36.0	Z'		
	eS	50 30.0	N'		
	eScS	52 29.0	N'		
	LQ	56 21.0	N'		
	LR	59 34.0	Z'		
5.	i(P)	10 36 55.0	Z		
	eS	37 31.0	E'		
6.	i(P)	12 18 34.0	Z	0.8	0.23
	eS	19 03.0	E'		
7.	iP	13 34 44.4	Z	0.7	0.10
	eS	35 16.0	E'		
8.	iP	13 37 38.8	N		
	iS	38 16.2	E		
9.	i(P)	14 32 20.0	Z	0.7	0.19
	iS	32 57.0	N'		
10.	i(P)	15 17 13.4	E		
	iS	17 57.0	E'		
11.	iX	15 39 29.0	N		
12.	i(P)	17 09 23.0	Z		
	i(S)	09 44.5	N		
13.	iP	18 16 34.0	Z, Z'	0.8	0.34
	isP	17 17.0	Z'		
	iS	22 55.0	E'		
14.	iS	18 59 43.8	E		
15.	iX	19 38 36.5	N		
16.	iP	20 02 00.2	Z		
	iS	02 27.0	E		
17.	iX	22 44 48.7	Z		
	i(S)	45 24.0	E		

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Date	Phase	Time (GMT)			Comp.	T_z (sec)	A_z (micron)
14 JUNE							
1.	iS	02	02	22.0	E		
2.	iX	02	14	52.5	E		
3.	iX	04	17	21.5	N		
4.	iS	11	43	28.5	N		
5.	iP	16	03	55.0	Z		
	iS		04	09.0	E		
6.	iP	16	42	33.0	Z, Z'	1.0	3.01
	iX		42	42.5	Z'		
	iS		44	47.0	N' E'		
7.	eP	18	58	40.5	Z	1.0	0.32
8.	eX	19	00	49.0	Z'		
9.	e(P)	21	13	00.0	N'		
10.	e(S)		15	00.0	E'		
15 JUNE							
1.	iP	01	07	12.0	N' E' Z'		
2.	iP	01	40	29.0	Z		
3.	i(P)	02	36	23.0	Z		
4.	iP	06	21	24.5	Z		
5.	iS	11	46	12.0	E		
6.	iP	13	18	56.0	Z		
	iS		19	23.3	E		
7.	eX	16	25	13.0	Z'		
	eX		35	34.0	N'		
8.	eP	16	43	53.5	Z	1.0	0.16
9.	eX	16	54	16.0	N'		

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Date	Phase	Time (GMT)	Comp.	T_z (sec)	A_z (micron)	
15 JUNE						
10.	iX	18 04	21.0	E		
11.	iP	18 46	35.5	Z		
	iS	46	50.0	E		
12.	eX	21 07	05.0	N'		
13.	eX	22 59	04.0	N'		
14.	LR	23 05	07.0	Z'		
16 JUNE						
1.	iP	00 02	43.0	Z	0.9	1.20
	iS	02	59.5	E		
2.	eX	01 09	40.0	Z'		
3.	i(P)	14 40	33.0	Z'		
	e(S)	49	20.0	N'		
	eX	53	43.0	Z'		
4.	iP	17 00	20.3	Z	0.6	0.15
	eX	01	52.0	E'		
5.	iP	19 21	55.0	Z, Z'	0.7	0.41
	iS	22	30.0	N' E'		
6.	i(P)	19 57	17.8	Z		
	i(S)	57	39.5	E		
7.	iP	20 38	54.0	Z		
	eS	39	22.0	E'		
8.	i(P)	21 48	01.0	E		
9.	e(P)	21 59	40.0	N		
10.	LR	23 00	08.0	Z'		
17 JUNE						
1.	iP	00 07	53.3	E		
	eS	08	24.0	E'		

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
17 JUNE					
2.	i(P)	05 51 51.5	Z		
	eS	52 26.0	N'		
3.	eX	12 13 25.0	Z'		
	eX	22 05.0	N'		
4.	i(P)	13 27 08.0	Z		
5.	eX	22 42 29.0	E'		
	LR	45 20.0	Z'		
18 JUNE					
1.	eX	02 24 26.0	N'		
2.	iS	07 03 14.0	E		
3.	eX	08 38 26.0	N'		
	eX	42 47.0	N'		
4.	iS	13 23 32.5	E		
5.	eX	14 24 32.0	Z'		
	eX	27 20.0	E'		
6.	iP	16 52 49.0	Z		
	iS	53 08.0	E		
7.	iP	18 02 34.0	NEZ		
	iS	03 21.0	E'		
8.	iP	19 04 31.0	Z		
	iS	04 46.5	NE		
9.	iP	19 20 02.5	Z'	1.0	0.32
	eS	24 02.0	E'		
10.	iP	21 21 26.0	Z		
19 JUNE					
1.	iP	02 39 12.5	Z, Z'	0.8	1.48
	iS	39 29.5	E'		
2.	iX	06 44 27.0	Z		
	eX	45 13.0	E'		

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Date	Phase	Time (GMT)			Comp.	T_z (sec)	A_z (micron)
19 JUNE							
3.	eP	07	58	14.0	Z'		
	eS	08	03	03.0	N'		
	(LQ)		04	45.0	N'		
	LR		06	40.0	Z'		
4.	i(P)	12	31	31.5	E		
	iS		32	31.0	NE		
5.	iP	17	12	59.0	Z	0.8	0.23
6.	LR	19	21	20.0	Z'		
7.	eP	19	39	20.0	Z, Z'	1.0	0.13
8.	eX	19	55	51.0	N'		
	LR		58	55.0	Z'		
9.	iX	22	21	22.5	N		
10.	iX	23	36	46.0	E		
20 JUNE							
1.	eX	01	54	21.0	Z'		
2.	eX	09	13	02.0	Z'		
3.	(LR)	09	28	28.0	Z'		
4.	iP	09	45	14.2	Z		
5.	(LR)	09	54	37.0	Z'		
6.	eX	12	49	00.0	Z'		
7.	i(P)	16	20	10.0	Z		
	LR		23	28.0	Z'		
8.	iX	16	34	13.5	Z		
9.	iP	17	04	32.8	Z, Z'	0.7	3.82
	iS		04	41.0	E'		
10.	iP	22	03	01.2	Z		
	i(S)		03	26.2	E		
11.	eX	22	17	34.0	N'		

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

21 JUNE

1.	eP	00	51	16.0	Z'		
	ePPP		53	18.0	Z'		
	eS		57	42.0	Z'		
	i(P)	01	00	41.0	Z'		
	(LR)		04	20.0	Z'		
2.	eX	04	02	07.0	N'		
	(LR)		03	33.0	Z'		
3.	i(P)	07	34	19.0	E		
4.	(LR)	07	50	03.0	Z'		
5.	iP	11	10	43.0	Z	0.7	0.21
	iS		11	09.5	N		
6.	iP	14	19	47.5	Z	0.8	0.29
	iS		20	07.5	E, E'		
7.	iP	14	25	24.2	Z	0.8	0.37
8.	i(P)	14	33	56.3	Z	0.8	0.10
	i(S)		35	07.5	N		
9.	iS	15	47	16.2	E		
10.	i(P)	19	14	50.5	Z		
	eX		15	18.0	E'		
11.	i(P)	21	05	12.5	Z		
	i(S)		05	38.5	E		
12.	i(P)	22	13	47.5	Z	0.8	0.11
13.	eP	23	15	36.0	Z'		
	eS		22	51.0	N' E'		
	(LR)		29	37.0	Z'		

22 JUNE

1.	eX	00	04	30.0	N'		
2.	iP	05	07	49.0	Z	0.9	0.28
	iS		07	59.0	NE		
3.	iX	05	15	48.5	E		

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
22 JUNE					
4.	iX	11 07 36.0	E		
5.	iX	11 13 31.5	E		
6.	iP	19 48 00.0	Z		
	iS	49 25.0	E'		
7.	iP	20 32 08.2	Z, Z'		
23 JUNE					
1.	eX	04 07 20.0	Z'		
2.	eX	05 14 28.0	N' E'		
	eX	17 34.0	Z'		
3.	iP	10 50 55.0	Z	1.0	0.48
	iS	51 18.0	N		
4.	iP	15 41 44.5	Z		
	iS	42 09.0	E		
5.	iP	16 46 32.5	Z		
6.	iX	16 50 14.0	N		
	iR	51 49.0	Z'		
7.	iX	19 12 04.0	N		
	eX	13 28.0	N'		
8.	iP	20 00 16.5	Z		
	iS	00 41.0	E		
24 JUNE					
1.	iP	02 08 56.0	Z	0.5	0.21
	i(3)	09 15.0	N'		
2.	iP	02 15 08.5	Z	0.7	0.21
	i(3)	15 35.5	N		
3.	iP	02 18 24.0	Z	0.8	0.89
4.	eX	05 31 06.0	Z'		

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

24 JUNE

5.	iP	06	38	12.0	Z		
	iS		38	22.2	N		
6.	iP	10	53	22.0	Z	0.5	0.13
	iS		58	45.5	N		
7.	iP	15	57	54.0	Z	0.8	0.58
	iS		58	18.5	E		
8.	iS	19	12	35.0	NE		

25 JUNE

1.	eX	01	50	46.0	Z		
2.	iP	08	46	21.0	Z		
	iS		46	44.5	E		
3.	i(P)	14	28	31.8	Z		
	iS		29	42.0	E		
4.	eX	18	51	25.0	Z'		

26 JUNE

1.	iP	02	50	06.8	E		
2.	iP	05	21	23.5	Z		
	iS		21	48.7	N		
3.	iP	06	32	30.5	Z	1.0	1.60
	iS		32	53.0	N'E'		
4.	iP	06	42	44.0	Z		
	iS		43	06.5	E		
5.	i(P)	06	46	05.8	Z		
	iS		46	46.0	N		
6.	iP	06	50	18.0	Z		
	iS		50	36.0	E		

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Date	Phase	Time (GMT)			Comp.	T ₂ (sec)	A ₂ (micron)
26 JUNE							
7.	iS	07	23	46.5	N		
8.	iX	07	51	40.0	N		
9.	iP	08	08	29.0	Z		
	iS		08	47.0	E		
10.	iP	12	36	50.5	Z	0.8	0.46
	iS		37	13.0	E		
11.	iX	12	47	26.0	N		
12.	iX	13	06	30.5	N		
13.	i(P)	14	12	03.0	E		
	iS		12	22.0	E		
14.	iP	14	25	33.3	Z		
	iS		25	50.5	NE		
15.	iX	19	13	15.0	E		
16.	i(P)	20	15	34.8	Z		
17.	iP	23	27	50.0	Z	1.0	0.50
	iS		28	16.5	E		
27 JUNE							
1.	iX	04	11	26.0	E		
2.	iS	08	13	49.0	E		
3.	i(P)	09	47	00.9	Z	0.8	0.23
	iS		47	16.0	N		
4.	i(P)	09	50	23.7	E		
5.	iP	10	49	44.0	Z, Z'	1.3	1.33
	iX		11	00	32.0		
6.	iP	17	32	14.8	Z	0.7	0.33
	iS		32	37.5	N		
7.	iP	21	57	44.5	Z	1.0	1.80

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
27 JUNE					
3.	iP	22 44		34.5	Z, Z'
9.	iS	22 57		21.5	E
10.	iS	23 07		23.5	E
28 JUNE					
1.	eX	00 17		45.0	E
2.	iX	00 30		44.5	Z
3.	iP	01 33		38.0	Z
	iS	33		49.0	NE, N' E'
4.	eX	04 59		54.0	E
	IR	05 13		54.0	Z'
5.	iX	06 22		09.0	E
6.	iP	06 33		34.8	Z
	iS	33		58.3	E
7.	iX	06 35		22.0	E
8.	iS	07 43		21.6	NE
9.	(IR)	11 58		19.0	Z'
10.	iP	12 31		16.0	Z
	eX	16 55		49.0	E'
29 JUNE					
1.	eX	01 39		54.0	Z'
2.	iX	02 55		38.0	E
3.	iX	02 12		37.0	E
4.	i(F)	05 01		07.0	E
5.	iP	14 21		07.0	Z
	iX	21		30.8	E
6.	eX	17 37		35.0	Z'
7.	iP	20 12		39.0	Z
	iS	12		52.0	E'

Dev. June, 1966

Date	Phase	Time (GMT)	Comp.	T_z (sec)	A_z (micron)
29 JUNE					
8.	iP	21 55	14.5	Z'	
	ePP	56	56.0	Z'	
	iS	22 01	58.0	N' E'	
	eS3	05	26.0	N'	
	LQ	07	02.0	N'	
	LR	10	48.0	Z'	
9.	i(P)	22 55	39.0	Z	
	e(3)	58	42.0	N'	
	LR	23 00	14.0	Z	
30 JUNE					
1.	i(P)	02 30	56.6	Z	0.5
	iS	31	27.0	E'	0.14
2.	iP	03 56	56.6	Z, Z'	1.0
	e(3)	57	29.0	N'	1.73
3.	i(P)	10 46	46.7	Z	0.3
	iS	47	16.0	N	0.20
4.	iP	12 28	25.0	Z	0.7
5.	i(P)	12 46	15.2	Z	
6.	iP	14 31	30.0	Z	0.9
	iS	32	03.0	E'	0.27
7.	eP	15 49	48.0	Z'	
	e3	52	52.0	N' E'	
	(LR)	54	15.0	Z'	
8.	i(P)	19 44	08.5	Z	
9.	eX	19 50	43.0	E'	
10.	LR	23 04	17.0	Z'	

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)

T_0 - 1.0 sec.

T_0 - 0.75 sec.

Magnification: usually 6,250

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

T_0 - 15 secs.

T_0 - 100 secs.

Magnification: usually 3,000

Day. July, 1966

Date	Phase	Time (GMT)		Comp.	T _Z (sec)	A _Z (micron)	
1 JULY							
1.	iP	00	01	05.8	Z	0.7	0.10
	iS		01	57.5	N		
2.	iP	05	54	41.5	Z,N ⁺ Z ⁺	0.8	0.29
	i(S)		57	57.0	E ⁺		
3.	i(P)	08	12	31.7	N		
	iS		14	14.0	E ⁺		
4.	eX	10	24	42.5	E		
5.	eX	10	26	25.0	E ⁺		
	(LR)		27	42.0	Z ⁺		
6.	i(P)	11	42	44.5	Z		
	iS		42	56.3	E		
7.	iX	13	45	26.4	E		
8.	iX	14	46	10.0	N		
	i(S)		46	34.0	E		
9.	iX	15	51	35.0	N		
10.	iP	21	46	38.5	Z	0.6	0.20
	iS		46	55.5	E		
11.	iP	22	13	32.0	Z	0.5	0.08
	iS		14	30.0	E,E ⁺		
2 JULY							
1.	iX	01	47	28.8	E		
	eX		49	34.0	N ⁺		
2.	i(P)	04	30	23.8	E		
	iS		30	57.0	N,E ⁺		
3.	LR	10	52	07.0	Z ⁺		
4.	eP	12	41	12.5	Z	0.7	0.10
	iS		42	00.8	E		
5.	eP	13	18	17.0	Z	0.6	0.12
	iS		18	45.0	N ⁺		
6.	eX	14	57	28.0	E ⁺		
7.	eP	16	49	46.0	Z	0.9	0.07
	iS		50	15.0	N		

Day. July, 1966

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
2 JULY					
8.	eX	20 21	N	46.0	
9.	iX	20 58	E	48.0	
10.	iP iS	22 51 53	Z E, E'	27.0 54.0	0.7 0.08
11.	iX	23 01	N	53.5	
12.	i(P) e(S)	23 36 36	N E'	32.0 57.0	
3 JULY					
1.	iS	01 35	E	44.0	
2.	iP iS	03 54 55	Z N' E'	50.0 07.5	0.5 0.46
3.	eX	04 20	Z'	11.0	
4.	iX	05 15	N	06.0	
5.	iP iS	08 32 32	Z E	29.0 51.5	
6.	iP iS	13 09 10	Z E'	25.5 01.0	0.9 0.56
7.	i(P)	19 25	Z	15.0	
8.	iP	20 26	Z	43.5	
9.	iP iS	21 05 06	EZ E	33.5 12.0	
10.	iP iS	21 14 15	EZ E	50.0 28.3	
11.	i(P)	22 58	Z	22.0	
4 JULY					
1.	eIP iS	01 02 03	E N'	41.0 20.0	
2.	eX	01 50	Z'	57.0	
3.	iP iS	03 11 12	Z E	56.0 17.8	0.4 0.27

Day. July, 1966

Date	Phase	Time (GMT)	Comp.	T _z (sec)	A _z (micron)
4 JULY					
4.	i(P)	03 41	Z		
	iS	41 57.0	E		
5.	eX	10 48	Z'		
6.	iP	11 24	Z	0.5	0.21
	iS	25 07.0	E		
7.	iP	12 59	Z	0.5	0.05
	iS	13 00	N'		
8.	IR	13 16	Z'		
9.	i(P)	14 43	E		
	eX	44 46.0	E'		
	eX	46 06.0	N'		
10.	i(P)	15 39	Z		
	eS	42 13.0	N'		
11.	iX	17 31	N		
12.	iP	18 44	Z'		
13.	iX	22 31	E		
5 JULY					
1.	iX	03 32	N		
2.	iX	06 07	N		
3.	(IR)	06 18	Z'		
4.	iX	08 12	E		
5.	eX	09 28	Z'		
	eX	30 33.0	E'		
6.	iP	12 37	Z	1.0	0.64
	iS	38 16.0	E'		
7.	iP	15 03	Z		
	iS	04 17.5	E		
8.	i(P)	22 11	E		
6 JULY					
1.	(IR)	01 21	Z'		
2.	eX	01 50	Z'		
3.	iX	02 15	N		

Dav. July, 1966

Date	Phase	Time (GMT)	Comp.	T_z (sec)	A_z (micron)
6 JULY					
4.	eX	03 50 20.0	N'		
5.	iP	05 02 04.0	Z	0.8	0.25
	iS	02 31.0	NE		
6.	iP	14 20 44.0	Z	0.8	0.57
	iS	21 13.5	E		
7.	eX	14 25 35.0	N'		
8.	iX	16 46 58.5	E		
9.	iS	17 09 40.0	E		
10.	iX	18 20 59.0	E		
11.	i(P)	20 01 44.8	Z		
	iS	01 56.2	NE		
12.	iP	20 14 06.0	Z		
	iS	14 25.0	N		
13.	eP	20 23 06.0	Z'		
	eS	26 05.5	Z'		
14.	iS	22 36 05.0	NE		
15.	iX	23 36 03.0	E		
7 JULY					
1.	i(S)	03 05 59.0	E		
2.	iX	04 19 19.0	N		
3.	iX	04 24 31.0	E		
4.	iP	07 05 26.0	Z	0.6	4.40
	iS	05 45.0	E, N' E'		
5.	iP	08 49 44.8	Z	0.8	0.34
	iX	49 46.0	N		
6.	eX	09 51 14.0	E'		
	(IR)	55 41.0	Z'		
7.	iS	12 47 05.0	N		
8.	eX	20 21 57.0	N'		
9.	eX	21 53 03.0	N'		
10.	i(S)	23 36 08.0	E		

Day. July, 1966

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

7 JULY

11. eX 23 54 40.0 Z'

8 JULY

1. 1P 01 41 19.0 Z'
1S 44 11.0 N'
(LQ) 45 12.0 E'
(LR) 47 12.0 Z'

2. 1X 02 21 46.0 E

3. eX 07 30 12.0 E'
(LR) 38 18.0 Z'

4. 1X 09 08 13.0 E

5. 1X 18 49 09.2 E

6. i(P) 19 07 49.7 N

7. i(P) 20 30 05.3 E

8. 1X 22 44 41.0 E

9 JULY

1. eX 01 08 49.0 N'

2. 1S 05 10 36.7 E

3. 1X 06 30 51.0 E

4. 1P 06 46 29.0 Z 0.6 0.20
1S 46 49.0 NE

5. eX 08 11 57.0 Z'

6. 1R 08 23 30.0 Z'

7. i(P) 18 22 03.4 Z
eX 22 54.0 E'

8. eX 19 21 42.0 Z'
eX 25 13.0 N'

9. 1P 21 22 31.3 Z 0.7 0.46
eS 23 10.5 N'

10. i(P) 23 30 31.0 Z
i(S) 31 20.8 E

Dev. July, 1966

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

10 JULY

1.	iP	10	11	20.0	Z'
	eS		20	52.0	E'
	LR		32	13.0	Z'
2.	iS	12	55	50.8	NE
3.	iP	16	16	20.0	Z, Z'
	iS		19	57.0	N'
4.	LR	19	06	55.0	Z'
5.	eX	21	41	58.0	Z'
	LR		42	48.0	Z'

11 JULY

1.	iP	05	57	50.7	Z	0.7	0.67	
	iS		58	03.5	N, N' E'			
2.	i(P)	15	52	11.0	Z			
3.	iX	17	28	10.8	N			
4.	eP	22	56	42.0	Z'			
	e(S)		23	05	30.0	E'		
	(LR)		17	57.0	Z'			

12 JULY

1.	iP	04	14	22.0	Z
	iX		15	39.5	E'
2.	iX	05	56	02.5	N
3.	e(P)	19	05	36.0	Z'
4.	eX	19	23	06.0	N'
	eX		28	29.0	N'
5.	(LR)	19	38	38.0	Z'

13 JULY

1.	iX	02	48	32.0	N
2.	i(P)	05	43	47.0	Z
3.	iX	07	47	22.0	N
4.	iP	14	42	17.0	N, Z'
	iS		43	41.0	E'
5.	iX	17	15	35.5	N

Dav. July, 1966

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
13 JULY					
6.	iX	17 19 36.0	N		
7.	iX	20 36 26.0	N		
8.	eP	22 24 51.0	N		
	eX	26 20.0	E'		
14 JULY					
1.	eX	00 53 49.0	N'		
2.	iP	03 11 20.8	N		
	iS	11 44.0	N' E'		
3.	eX	06 32 03.0	E'		
4.	iP	08 39 01.5	N		
	iS	39 18.0	E'		
5.	i(P)	08 54 06.7	N		
	e(S)	54 30.0	N'		
6.	iX	08 56 58.5	N		
	eX	57 00.0	E'		
7.	iX	09 49 05.0	N		
	eX	49 32.0	N'		
8.	eP	10 22 33.0	N		
	iS	22 48.0	N' E'		
9.	eP	15 39 31.8	N		
	iS	39 51.0	N' E'		
10.	eX	18 32 24.0	N'		
	eX	34 19.0	E'		
11.	iP	20 12 23.5	N		
	iX	13 39.0	E'		
15 JULY					
1.	iP	04 47 29.8	Z	0.5	0.12
	i(S)	48 04.0	N		
2.	eX	09 19 22.0	Z'		
3.	iP	10 35 19.0	Z	0.7	1.85
	iS	36 19.0	E'		

Day. July, 1966

Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
15 JULY							
4.	iP	17	59	35.5	Z	0.5	0.24
	iS	18	00	04.5	E'		
5.	iP	19	00	31.2	Z, Z'		
	iS		01	17.6	Z		
6.	iX	19	45	39.0	N		
7.	iP	20	26	54.5	Z, Z'	0.9	2.83
	iS		27	33.0	N'		
8.	eP	23	34	41.7	N		
	eS		35	11.0	N'		
16 JULY							
1.	iP	00	36	34.0	Z, Z'	1.0	1.04
2.	e(P)	07	28	19.0	Z'		
	eS		34	36.0	E'		
3.	iP	13	33	08.0	Z		
	iS		33	26.0	N, E'		
4.	iP	16	33	37.0	Z'		
	iS		34	10.0	N' E'		
5.	iP	18	34	25.5	N		
	iS		35	05.0	E		
6.	eX	20	17	33.0	E'		
7.	i(P)	20	40	36.5	N		
17 JULY							
1.	i(P)	09	20	06.0	Z		
	iS		21	10.0	N'		
2.	i(P)	10	30	52.2	Z		
	eS		33	34.0	E'		
3.	iP	14	51	45.0	Z		
	iS		52	23.0	E		
4.	iP	15	54	18.0	Z		
	iS		54	34.8	E		
5.	iR	16	08	28.0	Z'		
6.	eX	22	04	02.0	E'		

Day. July, 1966

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

17 JULY

7. iP 23 08 07.0 Z
 iS 08 30.0 N'
 8. (LR) 23 35 58.0 Z'

18 JULY

1. eX 02 14 46.0 N'
 2. eX 02 27 25.0 Z'
 3. eX 04 24 09.5 E
 4. i(P) 05 14 33.0 N
 5. eX 10 17 40.0 N'
 6. LR 10 31 35.0 Z'
 7. e(P) 12 21 46.8 N
 8. iS 18 19 29.8 NE
 9. eP 21 26 28.0 E
 eS 27 04.0 E'
 10. LR 23 18 35.0 Z'

19 JULY

1. iP 00 56 23.8 Z
 iS 56 47.5 N'
 2. eP 01 50 56.0 Z'
 eS 58 58.0 E' Z'
 LQ 02 05 29.0 E'
 LR 08 11.0 Z'
 3. iP 15 10 49.9 Z
 iS 11 13.5 E 0.8 0.86
 4. iX 16 40 10.0 E
 5. iS 17 48 17.5 N
 6. iP 19 02 52.0 Z
 iS 03 23.0 E

Day, July, 1966

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)	
19 JULY						
7.	iP	19 31	21.0	Z, Z'		
	eS	40	11.0	E'		
	LQ	48	31.0	E'		
	LR	53	11.0	Z'		
8.	iX	22 18	41.0	N		
20 JULY						
1.	LR	11 55	47.0	Z'		
2.	eX	12 59	12.0	Z'		
3.	i(P)	13 43	40.0	N		
	iX	44	26.0	E'		
4.	LR	14 19	43.0	Z'		
5.	iP	14 31	58.0	Z	0.8	0.17
	iS	32	10.5	NE		
6.	i(P)	16 33	05.5	Z	0.6	0.07
	iS	33	21.8	E		
7.	i(P)	18 34	45.5	Z		
	iX	35	47.0	N'		
21 JULY						
1.	eX	03 52	56.0	E'		
2.	eX	04 00	31.0	E'		
3.	LR	05 11	52.0	Z'		
4.	LR	06 31	56.0	Z'		
5.	iX	08 22	33.5	E		
6.	(LR)	09 36	17.0	Z'		
7.	iP	11 22	24.5	N		
	eS	23	17.0	N'		
8.	iP	11 29	14.7	Z	0.8	0.46
	iS	29	55.5	E		
9.	i(P)	13 30	11.0	Z	0.9	0.20
	eS	33	12.0	N'		
	eX	33	31.0	Z'		

Day. July, 1966

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

21 JULY

10.	iP	14	21	19.0	Z	0.6	0.75
	iS		21	34.0	NE		
11.	eiP	18	39	29.8	Z	0.9	1.87
	iS		47	02.0	N'		
	esS		48	30.0	E'		
	eSS		50	41.0	E'		
	e(SSS)		54	40.0	E'		
12.	e(P)	21	04	23.2	E		
	e(S)		04	50.0	E		

22 JULY

1.	eX	04	07	47.0	E'		
2.	eP	08	34	13.0	Z'		
	e(S)		41	04.0	N'		
	eX		42	12.0	E'		
3.	aP	10	28	10.0	Z'		
	ePPF		32	34.0	N'		
	eS		37	08.0	E'		
	G		45	08.0	E'		
	LR		49	54.0	Z'		
4.	iP	10	57	16.8	Z		
	iS		57	46.0	E		
5.	iP	11	02	43.6	Z	0.6	4.25
	iS		03	03.0	E		
6.	iP	13	43	17.0	Z		
	iS		43	27.5	NE		
7.	i(P)	16	50	17.8	Z		
8.	i(P)	20	45	05.5	Z		
	iS		45	14.5	E		
9.	iP	22	35	22.5	Z		
	iS		35	42.5	E		

23 JULY

1.	iX	04	19	17.0	E		
2.	i(P)	05	01	07.2	E		
	eX		01	50.0	N'		
3.	iP	05	49	56.0	Z, Z'	1.0	0.64
	iS		52	44.0	N'		
	eX		54	13.0	Z'		

Day. July, 1966

.....
 Date : Phase : Time (GMT) : Comp. : T_z(sec) : A_z(micron)

23 JULY

4.	iP	08	14	08.4	Z	0.5	0.52
	iS		14	27.7	NE		
5.	eP	08	22	35.0	Z		
	iS		22	53.3	E		
6.	eX	08	58	54.0	Z'		
7.	iP	13	08	06.0	Z		
	iS		09	20.0	E'		
8.	eX	13	28	10.0	Z'		
9.	iP	14	42	38.0	Z'		
	eS		51	29.5	E'		
	LQ	15	59	17.0	N'		
	LR		02	12.0	Z'		
10.	i(P)	17	09	00.5	Z	0.5	0.10
	iS		09	32.5	E		
11.	(LR)	20	44	40.0	Z'		
12.	eX	23	03	02.0	E'		

24 JULY

1.	iP	07	51	29.0	Z, Z'	1.0	1.12
	iS		51	51.0	N'		
2.	eP	09	02	53.0	Z'		
	ePPP		06	57.0	Z'		
	eS		11	50.0	E'		
	eS ₀ S		13	00.0	N'		
3.	i(P)	12	45	43.5	Z		
	iS		45	52.0	E		
4.	iP	17	28	41.0	Z		
	eX		38	16.0	E'		
5.	iP	21	35	47.5	Z		
	iS		35	58.5	N		

25 JULY

1.	i(P)	02	47	32.0	N		
	iS		47	37.5	E		

Dav. July, 1966

.....
 Date : Phase : Time (GMT) : Comp. : T₂(sec) : A_Z(micron)

25 JULY

2.	eiP	04	46	00.8	E		
	eS		47	28.0	E'		
3.	iX	06	40	54.5	E		
4.	iP	08	34	07.2	Z	0.6	0.95
	iS		34	18.8	E,N' E'		
5.	iX	09	06	39.5	E		
6.	eX	09	49	24.0	Z'		
	LR		52	16.0	Z'		
7.	eP	10	30	25.0	EZ	0.5	0.12
	iS		30	34.0	E		
8.	(LR)	13	16	22.0	Z'		
9.	eX	20	15	36.8	E		
10.	iX	21	00	55.5	E		
	eX		02	46.0	N'		
11.	i(P)	21	47	15.4	E		
	iX		48	39.0	E		

26 JULY

1.	iX	01	46	56.0	E		
2.	i(P)	09	05	27.0	Z		
	iS		05	45.5	N		
3.	iP	11	37	13.8	Z	0.8	1.49
	iS		37	27.0	E'		
4.	eX	11	46	02.0	Z'		
5.	i(P)	23	29	30.0	E		

27 JULY

1.	eX	05	08	54.0	Z'		
2.	iP	05	11	42.5	Z		
	iS		12	23.0	E'		
3.	eX	05	47	53.0	Z'		
4.	LR	06	03	10.0	Z'		

Day. July, 1966

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

27 JULY

5.	i(P) iS	09 03	06.5 30.3	Z NE		
6.	iX	10 16	13.0	E		
7.	i(P) iS	10 54	15.5 31.0	E N		
8.	i(P) iS	11 59	22.0 42.3	E N		
9.	iP iS	13 38	19.7 51.0	E N		
10.	(LR)	15 33	21.0	Z'		
11.	eX eX	19 16 17	26.0 56.0	Z' N'		
12.	iP iS	20 45	00.4 17.0	Z E	0.5	0.24

28 JULY

1.	i(P)	00 11	07.0	N		
2.	e(P) eS eX	01 25 34 42	51.0 06.0 43.0	Z' N' Z'		
3.	iX	02 25	02.0	E		
4.	e(P) eS (LR)	08 21 23 25	03.0 03.0 38.0	Z' N' Z'		
5.	iP eS	10 49 51	39.0 16.0	Z E'	1.0	1.47

29 JULY

1.	iP iS	03 14	11.0 34.0	Z E		
2.	iP iS	06 21 22	50.3 16.0	Z E		
3.	eX	06 34	45.0	Z'		
4.	e(P) e(S) (LR) LR	11 55 12 00 04 06	36.0 05.0 26.0 19.0	Z' E' N' Z		

.....								
Date	:	Phase	:	Time (GMT)	:	Comp.	:	T _z (sec) : A _z (micron)
.....								
29 JULY								
	5.	eX		21 27		23.0		E'
30 JULY								
	1.	eX		03 41		54.0		Z'
	2.	iX		15 30		47.0		E
	3.	iP		17 39		56.5		NZ
		iS		40 24.0			1.0	N' 7.04
	4.	i(P)		19 15		09.5		Z
		iS		15 44.5				N'
	5.	eX		19 52		30.0		N'
		eX		59 03.0				Z'
	6.	iP		20 37		57.0		Z
		iS		38 16.0			0.7	N' 0.67
	7.	i(P)		22 19		23.0		E
	8.	i(S)		23 26		11.5		E
31 JULY								
	1.	iP		16 04		03.0		E
		iS		04 47.0				E
		eX		05 00.0				Z'
	2.	eX		18 22		58.0		N'
	3.	iP		21 33		00.8		Z
		iS		38 06.0				E, E'

Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
1 AUG.							
1.	i(P)	16	41	32.8	Z		
	eS		42	48.5	N'		
2.	iP	19	19	48.0	Z	1.5	0.46
	iS		27	54.0	N'		
	G	20	03	40.0	N'		
	LR		08	36.0	Z'		
3.	iP	20	40	50.0	Z,Z'	2.0	3.20
4.	iP	21	12	52.3	Z		
2 AUG.							
1.	eX	08	11	04.0	N'		
2.	i(P)	12	11	13.5	E		
3.	i(P)	13	56	18.5	E		
	iS		56	54.3	N		
4.	iX	16	11	56.2	E		
5.	iP	18	52	41.0	Z	0.4	0.16
	i(S)		53	06.5	E		
6.	eX	18	57	34.0	E'		
	LR	19	02	27.0	Z'		
7.	eX	19	09	04.5	E		
3 AUG.							
1.	eX	11	08	39.0	E'		
	eX		09	42.0	Z'		
2.	i(S)	16	44	48.0	N		
3.	iS	23	40	19.0	E		
4 AUG.							
1.	i(P)	00	06	33.0	EZ		
	iS		06	58.0	N'		
2.	eX	05	45	34.0	Z'		
3.	iX	05	48	12.8	E		

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
4 AUG.					
4.	i(S)	15 14 29.5	E		
5.	iP	20 24 20.0	Z	0.7	0.15
	iS	25 19.5	E		
6.	eX	23 03 22.0	Z'		
	eX	04 03.0	N'		
5 AUG.					
1.	eX	01 19 06.0	N'		
	eX	26 49.0	N'		
2.	iP	02 03 45.0	Z		
	iS	03 49.0	NE		
3.	eP	04 40 43.0	Z'		
	iS	45 10.0	E'		
4.	eP	08 14 25.0	Z'		
	eX	17 37.0	N'		
5.	iS	14 25 04.0	NE		
6.	eX	21 09 28.0	N'		
6 AUG.					
1.	iX	02 15 37.0	N		
	eX	17 32.0	Z'		
2.	i(P)	02 58 18.0	Z		
	iS	59 14.0	E'		
3.	iP	06 32 36.8	Z	0.3	0.7
	iS	32 58.7	N		
4.	i(P)	10 40 47.5	Z		
	iS	41 05.3	E		
5.	iP	13 48 52.5	Z	0.7	0.15
	i(S)	49 33.0	E		
	eX	49 56.0	N'		
6.	iX	18 03 02.5	N		

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
6 AUG.					
7.	eX	18 06		21.0	N'
8.	eX	19 51		48.0	N'
	eX	20 00		27.0	E'
7 AUG.					
1.	iP	02 24		00.0	Z, Z'
	iPPF	27		59.0	Z'
	iS	32		52.0	E'
	iSS	37		37.0	E'
	G	40		08.0	E'
	LQ	40		52.0	E'
	LR	44		18.0	Z'
2.	i(P)	05 54		56.8	Z
3.	iX	07 09		22.0	E
4.	iX	11 53		11.0	E
5.	i(P)	16 52		39.0	Z
6.	eP	17 55		42.0	Z
	eS	18 05		09.0	E'
	eSS	11		14.0	N'
	LQ	22		36.0	E'
	LR	27		18.6	Z'
8 AUG.					
1.	eX	00 30		39.0	N'
	(LR)	33		32.0	Z'
2.	i(P)	07 24		05.5	E
3.	eP	07 32		10.0	Z'
	ePP	33		41.0	Z'
	e(PPP)	34		12.0	N'
	eS	38		37.5	E'
	LQ	42		33.0	N'
	LR	44		35.0	Z'
4.	eX	08 48		55.0	Z'
5.	LR	08 57		50.0	Z'
6.	eX	09 47		06.0	E'

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
8 AUG.					
7.	eX	12 45	Z'		
	LR	50	Z'		
8.	iP	19 10	Z	0.7	0.10
	i(S)	11	E'		
9.	i(P)	19 28	Z	0.8	0.10
9 AUG.					
1.	i(P)	08 55	N		
2.	iS	11 03	E		
3.	iP	17 18	Z	0.9	0.20
	eX	20	N'		
	eX	23	N'		
4.	e(P)	18 53	E		
	e(S)	55	E'		
5.	i(P)	19 11	Z	0.5	0.08
	iS	11	E		
6.	eP	22 34	Z'		
	eS	41	E'		
	eX	47	N'		
10 AUG.					
1.	iP	05 11	Z,Z'	0.8	0.48
	iPeP	12	Z'		
	ePP	13	Z'		
	iS	20	N' E'		
	eSc3	21	E'		
	eSS	24	E'		
	LQ	27	N'		
	LR	32	Z'		
2.	iP	06 12	Z	0.8	0.32
	i(S)	13	E		
3.	iP	12 39	Z'		
	iPP	40	Z'		
	e(PPP)	51	Z'		
	ePcP	42	Z'		
	iS	44	N' E'		
	LQ	46	N' E'		
	LR	47	Z'		

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
10 AUG.					
4.	iP	16 00	54.0	Z'	
	iX	01	04.0	N'	
5.	eX	16 08	47.0	E'	
	eX	10	22.5	E'	
	(LR)	11	18.0	Z'	
6.	i(P)	18 37	43.0	N	
	iS	37	58.0	E	
7.	eX	18 49	28.0	E'	
8.	i(P)	22 15	43.0	Z	
11 AUG.					
1.	iP	02 22	12.5	E	
2.	i(P)	02 51	43.8	N	
3.	iP	05 21	37.3	Z	
4.	e(P)	05 23	06.0	Z'	
	eX	26	16.0	N'	
	e(S)	32	21.0	E'	
	LR	45	40.0	Z'	
5.	i(P)	05 44	40.0	N	
6.	eX	11 14	22.0	Z'	
	LR	18	02.0	Z'	
7.	iP	15 04	11.0	Z, Z'	0.8
	iS	04	35.0	E'	6.06
8.	iP	15 32	58.5	Z	
	iS	33	11.8	N	
9.	eP	20 50	32.0	Z'	
	e(S)	59	34.0	E'	
	LR	21 12	29.0	Z'	
10.	eP	23 36	14.0	Z'	
	eS	45	13.0	E'	

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

12 AUG.

1.	eX	15 09 58.0	Z'		
2.	iP	18 02 02.5	Z		
	i(S)	02 37.0	N' E'		
3.	eX	20 13 40.0	Z'		
4.	eX	21 18 13.0	N'		

13 AUG.

1.	eX	06 42 18.0	Z'		
2.	eX	17 06 06.0	N'		
	(LR)	07 38.0	Z'		
3.	i(P)	19 12 21.0	N		
	iS	12 27.0	E		

14 AUG.

1.	iP	02 54 09.0	Z		
	iS	54 37.0	N		
2.	e(P)	05 00 12.0	Z'		
	eS	07 43.0	E'		
	eX	14 28.0	N'		
3.	eX	13 45 05.0	N'		
4.	iP	19 31 37.0	Z		
	eX	33 18.5	E'		

15 AUG.

1.	iX	01 27 03.5	N		
2.	iP	02 47 27.0	Z'	1.2	1.26
	i(S)	49 24.0	N'		
3.	iX	06 02 21.0	N		
4.	i(P)	09 44 47.5	E		
	i(S)	44 58.0	E		

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Date	Phase	Time (GMT)		Comp.	T _Z (sec)	A _Z (micron)
15 AUG.						
5.	iP	10	30	58.0	Z'	
	ePP		33	46.0	E'	
	eS		39	24.0	E'	
	e(SCS)		41	30.0	N'	
	(IQ)		47	45.0	N'	
	LR		50	13.0	Z'	
6.	eX	14	15	03.0	Z'	
	(LR)		16	15.0	Z'	
7.	eX	14	40	40.0	Z'	
8.	iX	15	34	00.5	E	
9.	eX	19	22	41.0	Z'	
16 AUG.						
1.	eP	02	26	38.0	Z'	
	eX		33	38.0	E'	
2.	iP	02	36	18.2	Z	
	iS		37	00.0	N'	
3.	i(P)	03	12	19.0	Z	
4.	iP	06	16	11.0	Z	
5.	iP	06	37	16.5	Z	
6.	iP	13	19	25.5	Z	
	i(S)		19	59.0	N	
7.	iP	13	37	41.5	Z	
8.	iP	18	21	09.5	Z	
9.	iP	19	55	00.0	Z	
	eS	20	02	17.0	N'	
	IQ		08	34.0	N'	
	LR		11	20.0	Z'	
17 AUG.						
1.	iP	05	32	03.5	Z	
	iS		32	24.0	N	

		Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
17 AUG.							
2.	i(P)	05	40	33.0	N		
3.	iS	10	57	00.0	N		
4.	eX	11	35	55.0	N'		
5.	i(P)	11	58	30.5	Z		
6.	iP	12	25	39.0	Z		
	iS		25	58.5	NE		
7.	iP	19	56	51.0	Z	0.9	0.73
	iS		59	01.0	N' E'		
8.	eP	21	08	44.0	Z'		
	e(S)		17	06.0	E'		
	iQ		23	49.0	N'		
	LR		29	57.0	Z'		

18 AUG.

		Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
1.	eX	00	18	20.0	Z'		
2.	iP	03	46	52.3	Z	0.8	0.11
	iS		47	44.0	N, N' E'		
3.	eP	10	52	34.0	Z'		
	iX		11	02	14.0	E'	
4.	(LR)	11	36	22.0	Z'		
5.	iP	13	09	32.5	Z	1.0	0.51
	iS		10	23.5	N'		
6.	eIP	14	35	47.0	Z	1.0	3.76
7.	iP	15	12	53.0	Z	0.9	0.47
8.	i(P)	15	26	38.0	Z		
	iS		26	55.8	NE		
9.	iP	15	46	35.8	Z	0.8	0.17
	i(S)		50	01.0	N		
10.	i(S)	22	21	45.0	E		

Date	Phase	Time (GMT)	Comp.	T _g (sec)	A _z (micron)
19 AUG.					
1.	eP	12 34	Z'	26.0	
	ePP	37	Z'	45.0	
	ePPP	39	Z'	14.0	
	eS	44	N'	30.0	
2.	i(P)	16 33	Z	32.0	
	iS	33	E	44.0	
3.	i(P)	18 01	N	58.0	
4.	i(P)	19 26	Z	14.0	
20 AUG.					
1.	iP	01 28	Z	58.0	
	iS	29	NE	09.0	
2.	iP	03 21	Z	12.0	
	iS	21	E	38.5	
3.	iP	09 39	Z, Z'	38.0	0.8 0.69
	e(S)	44	E'	46.0	
	(IQ)	46	E'	21.0	
	(LR)	48	Z'	16.0	
4.	eP	12 11	Z'	27.0	
	ePP	14	Z'	40.0	
	ePPP	16	Z'	35.0	
	eS	21	N'	37.0	
	eSS	22	N'	10.0	
	eSSS	27	E'	16.0	
	IQ	32	E'	35.0	
	LR	39	Z'	35.0	
5.	eP	23 05	Z'	40.0	
	e(S)	15	N'	06.0	
	LR	27	Z'	06.0	
21 AUG.					
1.	iX	01 21	E	27.0	
2.	iP	05 00	Z, Z'	59.0	
3.	iP	11 58	Z	56.0	0.7 0.26
	iS	59	NE	15.5	
4.	i(P)	12 05	Z	24.0	
	iS	05	E	43.5	

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Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
21 AUG.							
5.	iS	17	18	06.0	NE		
6.	iX	20	30	43.0	Z		
7.	eX	20	35	33.0	N'		
	eX		36	19.0	E'		
8.	iP	21	10	29.0	Z	0.8	0.43
	iS		11	10.0	N		
9.	i(P)	22	18	55.5	E		
22 AUG.							
1.	iX	00	53	13.5	E		
2.	iP	06	14	26.2	Z	0.8	1.94
	iS		14	44.0	E		
3.	iP	17	05	03.5	Z,Z'		
	i(S)		07	32.0	E'		
4.	iP	17	51	25.5	Z,Z'		
	iS		59	05.0	N'		
5.	iP	21	57	49.5	Z		
	eS		58	22.0	E'		
23 AUG.							
1.	eX	04	02	23.0	E'		
2.	iX	06	45	26.0	E		
3.	eP	18	26	10.0	Z'		
	eS		29	29.0	E'		
	LR		30	36.0	Z'		
24 AUG.							
1.	iP	05	24	53.0	Z	0.8	0.63
	iS		25	16.1	NE,E'		
2.	i(P)	05	44	52.5	E		
	iS		45	23.5	N		
3.	eX	07	54	58.0	Z'		

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
24 AUG.					
4.	eX	08 33	Z'	20.0	
5.	i(P)	15 06	E	21.0	
6.	i(P)	16 03	E	25.5	
25 AUG.					
1.	eX	00 42	N' E'	53.0	
	LR	45	Z'	22.0	
2.	eX	08 14	N'	18.0	
3.	i(P)	12 10	N	37.5	
	iS	11	E	11.2	
4.	iX	16 13	E	12.5	
26 AUG.					
1.	iX	03 02	E	52.0	
2.	iX	04 43	E	31.5	
3.	i(P)	17 01	Z	54.5	
	iS	02	N	03.5	
4.	iP	18 49	Z	56.8	1.0
	iS	50	N	12.5	0.72
5.	eP	09 16	Z'	02.0	
	ePcP	16	Z'	50.0	
	e(PP)	18	Z'	20.0	
	ePPP	19	Z'	15.0	
	eS	23	E'	28.0	
	eScS	26	E'	12.0	
	(G)	29	N'	19.5	
	LQ	30	N'	00.0	
(LR)	32	Z'	16.0		
27 AUG.					
1.	iP	02 37	Z, Z'	44.0	
	iS	38	N' E'	38.0	
2.	iP	04 36	Z, Z'	14.0	0.8
	iS	36	E'	30.0	6.52
3.	iP	05 57	Z	44.5	0.7
	iS	57	NE	55.0	0.15

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
27 AUG.					
4.	i(P)	14 00	Z	13.0	
	iS	00 53.0	E		
5.	eP	17 12	Z'	32.0	
	iS	14 35.0	E'		
28 AUG.					
1.	i(P)	00 16	Z	07.0	0.6
	iS	16 25.0	E		0.08
2.	eP	02 12	Z'	42.0	
	iS	13 57.0	N'		
	iX	14 32.0	Z'		
3.	iP	06 05	Z	18.5	0.8
	iS	05 48.0	N' E'		0.15
4.	iP	07 40	Z, Z'	08.0	0.8
5.	e(P)	10 10	Z'	25.0	
	iS	13 20.0	E'		
6.	iX	10 18	N	22.5	
7.	eX	15 50	Z'	06.0	
	LR	51 35.0	Z'		
8.	iP	18 49	Z'	15.0	
	iS	50 21.0	N'		
9.	i(P)	18 58	Z	23.0	
10.	iP	19 02	Z	11.5	0.8
11.	iP	22 32	Z'	17.0	
	iS	33 30.0	E'		
29 AUG.					
1.	iP	06 24	Z	25.0	0.8
	iS	24 47.0	Z, N'		0.97
2.	iX	07 58	E'	52.0	
	LR	59 45.0	Z'		

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Date	Phase	Time (GMT)			Comp.	T_z (sec)	A_z (micron)
29 AUG.							
3.	e(P)	13	23	20.0	Z'		
	eS		32	58.0	E'		
	(LR)		46	16.0	Z'		
4.	i(P)	13	57	04.0	Z		
5.	i(P)	17	01	45.0	N		
6.	i(P)	18	09	08.0	N		
7.	iP	23	06	56.0	Z		
30 AUG.							
1.	eX	06	30	15.0	Z'		
	eX		33	08.0	E'		
2.	iP	12	42	23.0	Z'		
	iS		44	21.0	E'		
	(LR)		44	55.0	Z'		
3.	iX	16	27	05.5	E		
4.	iP	19	43	31.0	Z		
	iS		44	10.0	E, E'		
5.	iP	20	33	22.0	Z'		
	eS		43	31.0	N'		
	(LR)	21	02	11.0	Z'		
31 AUG.							
1.	eX	00	29	45.0	N'		
	LR		33	18.0	Z'		
2.	i(P)	08	31	48.0	E		
	e(S)		33	16.0	E'		
3.	eX	15	47	15.0	E'		
4.	iP	21	56	20.5	Z	0.5	0.24
	iS		57	11.0	E'		
5.	iX	22	16	06.0	E		

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
1 SEP.					
1.	iP	08 59 58.0	Z'		
	eS	09 02 22.0	N'		
2.	i(P)	13 24 07.0	E		
3.	iS	15 46 14.5	E		
2 SEP.					
1.	iP	14 36 11.0	Z	1.0	0.48
	iS	37 00.0	N'E'		
2.	iS	14 40 43.5	E		
3.	i(P)	15 18 45.0	Z		
	iS	18 59.0	E		
4.	i(P)	17 00 26.5	E		
	i(S)	01 29.5	N		
5.	iP	19 54 08.0	Z		
6.	iP	20 07 50.7	Z		
	iS	08 10.2	NE		
7.	iP	20 17 50.0	Z	1.0	0.64
	iS	18 12.0	N		
3 SEP.					
1.	iP	01 48 57.5	Z	1.0	0.21
	iS	49 47.8	E		
2.	i(P)	02 17 50.0	Z		
3.	i(P)	16 39 42.0	Z	0.8	0.14
4.	iS	21 27 40.5	N		
5.	iS	22 07 09.0	NE		
4 SEP.					
1.	iP	09 45 12.0	Z'		
	e(S)	48 34.0	N'		
2.	iP	10 20 05.0	Z	1.0	0.48
3.	iP	15 13 15.5	Z		
	iS	13 27.2	E		

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6 SEP.
1. 1(P) 14 16 44.0 Z
1(S) 17 12.5 N
2. 1P 19 19 45.0 Z 1.0 0.56
1(S) 20 10.5 E

7 SEP.
1. 1P 16 17 51.0 Z,Z'
2. 1S 20 23 52.0 NE
3. 1P 21 41 35.0 Z
1(S) 42 39.0 E

8 SEP.
1. 1P 10 38 44.5 E
1S 39 22.0 N'
2. 1(P) 18 53 33.0 Z
1S 53 53.0 N
3. 1P 21 17 22.0 Z,Z'
4. 1(P) 23 09 37.0 Z

9 SEP.
1. 1(P) 02 43 52.0 E
1S 45 44.0 NE
2. 1(P) 04 07 02.5 E
3. 1(P) 23 08 15.0 Z

10 SEP
1. 1(P) 06 30 54.5 Z
1S 31 54.0 E,E'
2. 1P 21 47 21.0 Z
1S 47 24.0 E

11 SEP.
1. 1(P) 04 01 51.5 E
2. 1(P) 09 56 54.5 Z
1S 57 41.0 N'
3. 1S 12 23 28.0 N

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11 SEP.

4. iP 23 34 10.5 EZ 0.5 0.26
 iS 34 33.8 E

12 SEP.

1. iP 11 18 53.0 Z 0.7 0.36
 iS 19 13.0 NE

2. iP 11 38 56.0 Z,Z' 2.5 3.34

3. i(P) 12 41 07.0 Z
 iS 41 53.5 N

4. i(P) 13 05 34.0 Z
 iS 06 04.0 E

5. iS 19 20 34.0 E

13 SEP.

1. i(P) 03 19 54.0 Z

2. iS 16 35 53.0 NE

3. iP 17 20 44.5 Z
 iS 21 06.5 NE

4. iP 23 45 55.0 Z
 iS 46 30.0 E'

14 SEP.

1. iP 00 48 07.0 Z,Z' 0.8 0.80
 iS 49 09.0 N'

2. iP 01 37 58.5 Z 0.6 0.18

3. iP 16 19 11.0 Z 0.5 0.15
 iS 19 21.2 NE

4. i(P) 19 13 11.0 E

5. i(P) 20 02 54.5 Z
 iS 04 24.0 E'

6. ePKP 23 34 15.0 Z'
 iPP 37 37.0 Z'
 ePPP 40 42.0 Z'
 iScSP' 49 05.0 N' Z'

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
15 SEP.					
1.	i(P)	03 36	E	02.2	
2.	iP	04 17	Z'	38.0	
	e(S)	27	N'E'	45.0	
3.	i(P)	07 34	E	07.5	
	iS	34	N	19.0	
4.	iP	17 14	Z'	33.0	
	e(S)	17	E'	45.0	
5.	iP	19 56	Z	11.3	
	iS	56	E	45.0	
16 SEP.					
1.	iP	00 30	Z	33.0	0.8
	iS	31	E'	02.0	0.89
2.	iP	07 04	Z	04.5	
3.	iP	07 53	Z'	39.0	
	iS	56	E'	05.0	
4.	iS	22 47	NE	40.0	
5.	i(P)	23 47	Z	31.0	
17 SEP.					
1.	i(P)	11 15	Z	09.7	
	iS	15	E'	58.5	
2.	eP	20 28	Z'	06.0	
	ePP	30	Z'	33.0	
	ePPP	32	Z'	36.0	
	eS	37	E'	18.5	
3.	iP	20 39	Z,Z'	15.5	0.8
	iS	39	N'E'	32.0	1.83
4.	iP	23 21	Z	14.2	1.0
					0.18
18 SEP.					
1.	iP	08 25	Z	55.5	
	i(S)	26	E'	42.0	
2.	i(P)	10 49	Z	52.0	
3.	iP	19 34	Z	23.0	
	iS	34	E	39.3	

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18 SEP.					
4.	1P	20 36	NEZ,Z'	0.7	2.68
	1S	37 16.0	N' E'		
5.	1P	20 55	Z,Z'		
	oS	21 04	E'		
19 SEP.					
1.	1P	01 23	Z,Z'	0.8	3.83
	1S	24 13.0	E'		
2.	1S	04 35	E		
3.	1P	06 11	Z,Z'		
	o(s)	16 04.0	N'		
4.	1P	07 46	Z		
	1S	46 26.0	E		
5.	1S	11 50	E		
20 SEP.					
1.	1S	03 48	E		
2.	1P	05 14	Z		
3.	1P	05 59	Z		
22 SEP.					
1.	1P	02 39	Z		
2.	1(P)	02 54	Z		
3.	1P	05 18	Z	1.0	2.08
	1S	18 20.0	E,N' E'		
4.	1P	11 42	Z	0.8	0.69
	1S	43 43.0	E		
5.	1P	13 52	Z		
	1(s)	53 13.5	E		
6.	1(P)	17 36	Z		
	1S	36 53.3	NE		
23 SEP.					
1.	1(P)	18 44	E		
	1S	44 52.5	E		
2.	1P	20 06	Z		

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23 SEP.

3.	i(P)	20	54	33.0	Z
	i3		54	44.0	NE
4.	i(P)	23	45	25.0	Z

24 SEP.

1.	iS	04	38	04.5	E
2.	i(P)	04	45	22.5	Z
3.	iP	16	12	23.0	Z
	iS		12	35.5	NE
4.	iP	23	16	21.5	Z

25 SEP.

1.	i(P)	04	54	34.0	Z
2.	i(P)	22	14	25.0	Z
	iS		14	52.8	E
3.	iS	23	30	39.5	NE
4.	iP	23	52	59.3	E
	iS		53	32.2	E

26-SEP.

1.	iP	04	26	55.0	Z
	e(S)		30	09.0	Z'
2.	i(P)	05	18	16.0	Z
	eS		23	58.0	N'
3.	iP	11	33	14.0	Z
	iS		33	34.0	NE

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Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
26 SEP.					
4.	iP	14 40	Z	42.0	
	iS	40	NE	53.5	
27 SEP.					
1.	iP	04 27	Z	18.0	0.7
2.	i(P)	08 20	N	17.0	
3.	iP	09 40	Z,Z'	09.8	0.8
	iS	40	N'E'	27.0	5.94
4.	eP	17 38	Z'	48.0	
	eS	42	N'	12.0	
5.	iP	18 43	Z	02.5	
	i(S)	44	E	14.0	
6.	iP	18 50	Z	03.5	0.8
	iS	50	E,E'	29.5	1.37
7.	i(P)	19 56	Z	36.5	
8.	iP	22 40	Z	40.5	
	iS	40	NE	59.0	
28 SEP.					
1.	i(P)	02 22	E	19.0	
2.	iP	02 54	Z	39.8	
3.	iP	13 11	Z	49.3	0.8
	iS	12	NE	06.0	1.26
4.	iP	14 06	Z,Z'	44.5	
	i(S)	10	E'	59.0	
5.	iP	14 31	Z	06.0	0.7
	iS	31	NE	23.0	0.88
6.	iP	17 56	Z	28.3	
	iS	56	NE	50.2	
7.	iP	21 53	Z	47.0	1.0
	iS	54	N	09.0	0.72

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29 SEP.

1.	iP	02 54	23.8	Z	1.0	0.24
2.	i(P)	12 46	43.5	Z		
3.	i(P)	20 47	39.5	Z		
	iS	47	51.2	E		

30 SEP.

1.	iP	07 32	43.0	Z		
2.	iP	17 57	09.0	Z		
3.	eiP	22 44	17.0	Z		