

BAGUIO STATION
QUARTERLY SEISMOLOGICAL BULLETIN

MANILA OBSERVATORY
PHILIPPINES

BAGUIO SEISMIC STATION

Baguio, Philippines

Latitude	16° 24' 39'' N
Longitude	120° 34' 47'' E
Elevation	1507 meters

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 25,000

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

T_0 - 15 secs.

T_g - 100 secs.

Magnification: usually 3,000

Date	Phase	Comp.	Time (CCT)	Distance, etc.
01 JUN				
(1)	iP	NEZ	02 00	24.5
(2)	iP	NEZ	02 37	54.4
(3)	i(P)	NEZ	04 02	15.5
(4)	iP	NEZ	04 38	08.7
	iX	NEZ	38	36.0
(5)	eS	N'E'Z'	04 42	38.0
	LR	N'E'Z'	45	00.0
(6)	iP	EZ	06 24	18.7
	iS	NEZ	24	35.2
(7)	eP	NEZ	07 59	32.0
(8)	LQ	N'E'	08 11	00.0
	LR	N'E'Z'	15	46.0
(9)	iP	E	08 18	49.8
	iS	NEZ	19	08.0
(10)	eP	NEZ	10 39	15.2
	iS	NEZ	39	22.0
(11)	iP	NEZ	13 08	17.4
	iS	NEZ	08	49.1
(12)	iP	Z	13 12	30.1
	LQ	N'E'	18	24.0
	LR	N'E'Z'	21	07.0
(13)	eX	N'E'	18 18	24.0
(14)	eP	NEZ	19 00	42.5
(15)	iP	NEZ	21 03	32.2
	iS	NEZ	03	50.0
(16)	eX	E'	21 11	48.0
	LR	N'E'Z'	12	40.0
(17)	iP	NEZ	23 16	37.4
	iS	NEZ	17	27.7
	eX	N'E'Z'	18	09.0
02 JUN				
(1)	eP	NEZ	03 11	44.1
	iS	NE	12	11.1
(2)	eP	NEZ	04 07	53.9

D * = 2800 km
20.2 N 94.9 E (CGS)

D * = 150 km
28.5 N 83.2 E (CGS)

D * = 4100 km

D * = 160 km

D * = 45 km

D * = 200 km

D * = 160 km

D * = 480 km

D * = 250 km

D * = 320 km

Bag, June, 1965

Date	Phase	Comp.	Time (GCT)			Distance, etc.
02 JUN						
(2)	eS	NEZ	04	08	27.7	
(3)	oP	NEZ	04	31	25.0	
	eX	NEZ		31	37.5	
	i(S)	NE		31	44.0	
(4)	(LR)	N'E'Z'	04	38	15.0	
(5)	iP	NEZ	05	23	20.0	
	i(S)	NEZ		23	25.0	
(6)	LR	N'E'Z'	05	31	47.0	
(7)	iP	NEZ	08	22	54.5	
	iX	NE		23	00.0	
	i(S*)	NE		23	05.0	
	o(Sn)	NEZ		23	09.4	
(8)	iP	NEZ	09	29	34.0	
	iX	Z		29	38.0	
	oX	NE		29	38.0	
(9)	iP	Z	14	55	56.0	
	i(S)	EZ		56	05.0	
(10)	eP	NEZ	14	58	32.0	D = 80 km
	iX	EZ		58	39.0	
	iS	NEZ		58	42.0	
	LR	N'E'Z'		59	13.0	
(11)	eP	NEZ	15	04	15.0	
	eX	NEZ		04	20.0	
	eX	NEZ		04	51.0	
(12)	iP	Z	15	08	33.8	D = 130 km
	iX	NEZ		08	39.7	
	iS	NEZ		08	49.0	
	LQ	N'E'		09	08.0	
	LR	N'E'Z'		09	51.0	
(13)	iP	NEZ	20	25	58.4	D = 510 km
	iX	NZ		26	15.0	
	iX	EZ		26	35.0	
	iS	NEZ		26	51.0	
	iX	NZ		27	10.2	
	LQ	N'E'		27	12.0	
	LR	N'E'Z'		27	29.0	
03 JUN						
(1)	LQ	N'E'	00	40	40.0	
	LR	N'E'Z'		51	37.0	

Mag. June, 1965

Date	Phase	Comp.	Time (GCT)	Distance, e t c.
3 JUN				
(2)	1P	Z	04 53 17.2	
(3)	LR	N'E'Z'	05 03 13.0	
(4)	eP	NEZ	05 53 12.7	D \approx 570 km
	iS	NEZ	54 11.1	
(5)	1P	Z	7 53 12.1	
(6)	LR	N'E'Z'	8 07 25.0	
(7)	1P	EZ	08 08 14.0	D \approx 520 km
	iX	NEZ	08 45.0	
	iS	EZ	09 08.	
(8)	eP	NEZ	11 16 38.2	D \approx 410 km
	eS	NE	17 21.0	
(9)	eX	N'E'Z'	12 16 19.0	
(10)	LR	N'E'Z'	17 01 00.0	
(11)	1P	NZ	21 46 38.0	D \approx 170 km
	iS	N EZ	46 57.3	
(12)	1P	Z	23 07 17.2	D \approx 560 km
	iX	EE	07 27.5	
	iS	N EZ	08 15.0	
4 JUN				
(1)	1P	EE	03 27 12.2	
	iS	EZ	27 14.3	
(2)	1P	Z	04 54 24.7	D \approx 100 km
	iX	NZ	54 33.6	
	iS	NEZ	54 37.3	
	iX	NEZ	54 43.2	
	iX	NEZ	54 45.0	
(3)	eP	NEZ	06 39 52.2	D \approx 340 km
	iS	NEZ	40 28.5	
(4)	1P	NZ	13 36 35.8	
	iX	NZ	36 45.8	
(5)	LR	N'E'Z'	13 43 00.0	
(6)	LR	N'E'Z'	15 26 38.0	
(7)	1P	Z	15 38 08.0	

Bag, June, 1965

Date	Phase	Comp.	Time (GST)	Distance, etc.
4 JUN				
(8)	eP	NEZ	17 54 13.6	
	eS	NEZ	54 37.7	D \approx 120 km
5 JUN				
(1)	iP	NEZ	01 45 06.1	
(2)	iX	NEZ	03 53 22.0	
(3)	eX	NEZ	03 57 15.5	
(4)	iP	NEZ	7 03 49.3	
	iS	NEZ	04 35.1	D \approx 440 km
(5)	iP	NEZ	10 49 53.8	
	iS	NEZ	50 14.0	D \approx 180 km
(6)	e(P)	NEZ	12 58 10.6	
	e(S)	NEZ	59 10.3	
(7)	iP	NEZ	13 39 12.9	
	iS	NEZ	39 30.0	D \approx 150 km
(8)	e(P)	Z	13 40 15.5	
	LR	N'E'Z'	42 00.0	
(9)	iP	NEZ	13 53 17.1	
	iS	NEZ	53 18.9	
(10)	i(P)	NEZ	13 53 54.0	
(11)	eP	N'E'Z'	14 11 36.0	
	eS	N'E'Z'	15 18.0	D \approx 2300 km
6 JUN				
(1)	iP	NEZ	04 30 50.1	
	iS	NEZ	31 01.2	D \approx 90 km
(2)	eP	NEZ	08 54 54.2	
	iS	NEZ	55 49.5	
	LR	N'E'Z'	56 08.0	D = 530 km
(3)	eP	NEZ	11 22 47.3	D* 700 km
	iS	NEZ	24 20.5	22.8 N
	LR	N'E'Z'	24 30.0	121.7 E (CGS)
(4)	LR	N'Z'	14 34 40.0	
(5)	eP	NEZ	15 02 49.2	
	iS	NEZ	03 30.2	D \approx 390 km
(6)	eX	N'E'Z'	15 51 25.0	

Bag, June, 1965

Date	Phase	Comp.	Time (GMT)	Distance, etc.
06 JUN				
(7)	(LR)	N'E'Z'	16 04 26.0	
(8)	eP i(S)	NEZ N	19 14 05.6 14 30 40.4	
07 JUN				
(1)	iP i(S)	NEZ NZ	01 33 14.4 33 15.5	
(2)	iP iX iS LR	NEZ NE NE N'E'Z'	06 54 01.4 54 44.0 54 57.5 55 27.0	D = 540 km
(3)	(LR)	N'E'Z'	10 32 25.0	
(4)	e(P) iX iS	NEZ EZ N EZ	12 26 16.4 27 07.5 27 12.5	
(5)	eX	N'E'Z'	13 42 40.0	
(6)	i(P) iS	Z' NEZ	15 36 18.1 36 46.5	
08 JUN				
(1)	iP	NEZ	05 49 28.6	
(2)	iP iS	NEZ NE	09 16 20.5 16 43.9	D = 210 km
(3)	eX	N'E'Z'	09 42 15.0	
(4)	eP	NEZ	12 18 31.0	
(5)	e P	NEZ	12 33 45.1	
(6)	e(P)	NEZ	13 43 53.0	
(7)	LR	N'E'Z'	14 33 19.0	
(8)	iP	NEZ	17 03 26.3	
(9)	e(P) eS (LR)	NEZ NEZ N'E'Z'	20 04 52.5 05 34.5 05 46.0	
(10)	iP iS	NEZ NEZ	21 36 12.0 36 24.5	D = 100km

Bag. June, 1965

Date	Phase	Comp.	Time (GCT)	Distance, etc.
09 JUN	(1)	iP	12 03 05.5	D [*] 90 km
		iS	03 16.6	
	(2)	eP	13 40 27.1	D [*] 60km
		iS	40 35.5	
	(3)	eP	16 00 43.8	
		e(S)	01 03.0	
	(4)	i(P)	17 09 44.0	
(5)	e P	19 10 25.1	D [*] 290 km 8.6 S 127.3 E (CGS)	
	eS	15 14.0		
(6)	eP	20 09 28.5		
(7)	LR	20 48 09.0		
10 JUN	(1)	iP	15 20 26.0	D [*] 1750 km 1.9 N 126.6 E
		eS	23 22.5	
		LR	24 28.0	
11 JUN	(1)	eP	00 36 37.4	
	(2)	LR	00 40 06.0	
	(3)	eP	02 47 08.5	D [*] 6200 km 51.8 N 174.1 E (CGS)
		e.	47 08.5	
		eS	54 46.2	
		LR	3 00 30.0	
	(4)	iP	3 40 51.8	D*4100 km 44.7 N 148.7 E
		iP	40 51.8	
		eS	46 32.0	
		LQ	49 28.0	
		LR	53 50.0	
	(5)	iX	04 20 22.0	
	(6)	iX	04 21 57.1	
	(7)	iP	04 50 49.0	D [*] 140 km
		iS	51 05.2	
(8)	iP	07 18 10.0		
(9)	iP	08 04 05.0	D = 90 km	
	iS	04 16.0		

Date	Phase	Comp.	Time (GCT)	Distance, etc.
11 JUN				
(10)	eP	N'E'Z'	08 53 47.0	D [*] = 2700 km
	eS	N'E'Z'	58 05.0	
	LQ	N'E'	09 00 38.4	
	LR	Z'	01 42.8	
(11)	eX	E'	10 29 30.0	
(12)	eX	E'	10 35 14.4	
(13)	iP	NEZ	13 21 47.0	D ± 970 km
	iS	NEZ	23 24.5	
	LR	N'E'Z'	23 42.0	
(14)	iP	NEZ	14 03 49.8	D ± 600 km
	iP	N'E'Z'	03 49.8	
	iS	NEZ	04 51.0	
(15)	LR	N'E'Z'	17 33 22.0	
(16)	iP	NEZ	20 51 26.5	
	LR	N'E'Z'	21 05 00.0	
(17)	iP	NEZ	22 51 09.0	D ± 130 km
	iS	NEZ	51 24.0	
12 JUN				
(1)	eP	NEZ	05 35 44.0	4100 km 44.2 N 149.8 E (CGS)
	iS	N'E'Z'	41 36.0	
	LR	N'E'Z'	47 40.0	
(2)	eX	N'E'Z'	05 49 18.0	
(3)	iP	NEZ	12 52 33.5	D ± 80 km
	iS	NEZ	52 43.5	
(4)	iP	NEZ	12 58 28.0	D ± 220 km
	eS	NEZ	58 52.5	
(5)	iP	NEZ	15 22 51.0	D [*] = 100 km
	eS	NEZ	23 03.5	
(6)	iP	NEZ	18 00 25.5	D [*] = 2900 km 6.3 S 105.8 E (CGS)
	eS	N'E'Z'	05 08.0	
(7)	iP	NEZ	18 52 49.0	D [*] = 4000 km 44.1 N 149.0 E
	eS	N'E'Z'	58 35.0	
	LR	N'E'Z'	19 03 34.0	
(8)	eP	NEZ	22 23 52.5	D [*] = 4000 km 44.2 N 149.0 E
	eS	N'E'Z'	31 14.5	
	LQ	N'E'	32 48.0	
	LR	N'E'Z'	35 11.0	

Date	Phase	Comp.	Time (GCT)	Distance, etc.	
13 JUN	(1)	eP	NEZ	01 52 57.0	D \approx 1300 km
		eS	N'E'Z'	55 11.0	
		LQ	N'E'	55 23.0	
		LR	N'E'Z'	56 00.0	
	(2)	eP	NEZ	02 27 57.5	D \approx 7100 km
		eS	N'E'Z'	36 30.0	
		LR	N'E'Z'	41 18.0	
	(3)	eP	NE	07 12 38.0	41.9 N 143.4 E (CGS) D \approx 3550 km
		iP	Z	12 38.0	
		iP	N'E'Z'	12 38.0	
		eS	NEZ	17 44.0	
		eS	N'E'Z'	17 44.0	
		LQ	N'E'	19 56 0	
		LR	N'E'Z'	22 03.0	
(4)	eP	NEZ	16 34 37.0	D \approx 450 km 21.0 N, 120.5 E (CGS)	
(5)	iP	NEZ	17 29 53.5		
	iS	NEZ	30 34.0		
(6)	eP	NEZ	20 14 05.0		
	eP	N'E'Z'	14 05.0		
	e(S S)	NEZ	29 02.0		
	(LQ)	N'E'	44 03.0		
	(LR)	Z'	50 25.0		
(7)	iP	NEZ	23 32 54.5	D \approx 20 km	
	iS	NEZ	32 59.0		
14 JUN	(1)	eP	NEZ	01 23 05.0	6.0 S 151.6 E (CGS) D \approx 4200 km
		eS	N'E'Z'	28 35.0	
		LQ	N'E'	29 15.0	
		LR	N'E'Z'	31 54.0	
	(2)	eP	NEZ	04 29 05.5	D \approx 170 km
		eS	NEZ	29 25.0	
	(3)	eP	NEZ	04 46 25.5	D \approx 450 km
		iS	NEZ	47 13.0	
	(4)	eX	NEZ	06 16 14.0	D \approx 150 km
	(5)	iP	NEZ	06 18 07.0	
		iS	NEZ	18 24.0	
	(6)	eP	N'E'Z'	07 51 48.0	D \approx 8450 km
		e(PP)	N'E'Z'	54 13	
		eS	N'E'Z'	08 00 19.0	
		LQ	N'E'	07 12.0	

Date	Phase	Comp.	Time (GCT)	Distance, etc.
14 JUN				
(6)	LR	N'E'Z'	08 20 33.0	
(7)	eP	N'E'Z'	09 55 37.0	
	eS	N'E'Z'	10 04 14.0	
	LQ	N'E'	18 09.0	
	LR	N'E'Z'	22 42.0	D \approx 7200 km
15 JUN				
(1)	eX	N'E'Z'	05 03 50.0	
	LR	Z'	09 56.0	
(2)	eP	N'E'Z'	08 08 35.0	
	LQ	N'E'	11 44.0	
(3)	eP	NEZ	09 32 06.5	
(4)	e(P)	N'E'Z'	09 51 29.0	
	e(S)	N'E'Z'	54 04.0	
	LR	N'E'Z'	57 13.0	
(5)	eP	NEZ	10 10 55.0	
(6)	eX	N'E'Z'	14 34 17.0	
	eS	N'E'Z'	36 06.0	
	LR	N'E'Z'	39 38.0	
(7)	eP	N'E'Z'	17 00 48.0	
	e(S)	N'	08 42.0	
	LR	Z'	13 38.0	
(8)	eP	NEZ	19 39 15.5	
	eS	NEZ	39 40.0	D \approx 230 km
(9)	eP	NEZ	20 05 03.0	
	eS	NEZ	05 46.5	D \approx 420 km
(10)	eP	N'E'Z'	20 19 46.0	
	eS	E'	20 47.0	D \approx 590 km
(11)	eP	NE	21 20 26.0	
	eS	NEZ'	20 38.0	D \approx 100 km
(12)	eP	Z'	23 21 04.0	
	eS	N'E'	29 35.0	
	LQ	N'E'	36 56.0	
	LR	E'Z'	39 42.2	20.9 S 173.7 E (CGS) D \approx 7200 km
16 JUN				
(1)	LR	Z'	01 44 30.0	
(2)	LR	Z'	02 43 02.0	

Date	Phase	Comp.	Time (GCT)	Distance, etc.
16 JUN	(3)	PP	28 17.0	D \approx 11000 km
		eS	34 22.5	
		LQ	50 12.0	
		LR	55 15.0	
	(4)	iP	05 02 36.2	29.5 N 141.9 E D \approx 2650 km
		iP	02 36.2	
		eS	07 08.0	
		LQ	07 44.0	
LR	08 49.0			
17 JUN	(1)	iP	01 38 46.7	D \approx 310 km
		iS	39 19.8	
	(2)	iP	03 08 58.5	D \approx 570 km
		iS	09 58.5	
		LQ	10 12.0	
	(3)	iP	10 45 28.3	23.9 N 123.3 E (CGS) D = 850 km
		iS	46 59.4	
		iS	46 59.4	
		LQ	47 08.0	
		LR	47 46.0	
	(4)	eP	20 04 06.2	
	(5)	eP	20 21 36.4	32.0 N 87.8 E D \approx 3800 km
		eS	27 06.0	
		LQ	30 44.2	
		LR	32 26.0	
	18 JUN	(1)	eP	01 31 23.0
eS			36 04.0	
LR			38 22.0	
(2)		eX	08 29 20.0	
		LR	29 50.0	
(3)		eX	23 30 25.0	
19 JUN	(1)	eX	03 10 11.2	
		eX	06 53 28.0	
	(2)	LR	07 00 08.0	
		iP	15 28 23.5	
	(3)	eS	28 31.5	D \approx 60 km
		LR		

Bag, June, 1965

Date	Phase	Comp.	Time (GCT)	Distance, etc.
19 JUN	(4) eP iS	N'E' NE	19 50 09.0	D \approx 460 km
			50 37.8	
	(5) iP iS	NEZ N E	23 37 14.5	D \approx 110 km
			37 23.5	
20 JUN	(1) eP iS	Z E	01 29 36.5	D \approx 280 km
			30 06.5	
(2)	iP iS LR	Z Z' Z'	02 04 31.5	44.6 N 149.2 E D \approx 4000 km
			10 11.0	
			15 20.0	
(3)	(LQ) LR	E' Z'	04 09 47.0	=
			11 16.0	
(4)	iP i(S)	Z N'	04 16 41.0	
			17 17.0	
(5)	iP iS	NEZ N	05 10 50.0	D \approx 180 km
			11 10.0	
(6)	iP eS	NEZ E	06 07 07.0	D \approx 120 km
			07 22.0	
(7)	eP	E	06 11 12.0	
(8)	iP eS LR	E E Z'	07 55 38.0	10.4 N 126.1 E D \approx 900 km
			57 23.0	
			58 54.0	
(9)	eP iS	E NEZ	10 09 15.8	D \approx 140 km
			09 31.0	
(10)	iQ LR	E' Z'	14 05 23.0	
			06 04.0	
(11)	eP iS	NE NE	20 41 06.0	D \approx 250 km
			41 33.0	
21 JUN	(1) iP eS LQ	N' N' N'	00 39 40.0	D \approx 5500 km
			46 42.0	
			50 56.0	
(2)	eP iS	EZ NEZ	03 44 21.0	D \approx 110 km
			44 34.0	
(3)	eP eS	NEZ NEZ	08 18 31.5	D \approx 60 km
			18 43.0	

Date	Phase	Comp.	Time (GMT)	Distance, etc.
21 JUN				
(4)	eP eS	N NE	10 03 07.0 03 14.0	$D \approx 45$ km
(5)	LR	E'Z'	12 41 33.0	
(6)	LR	Z'	13 22 50.0	
(7)	LR	Z'	20 52 12.0	
22 JUN				
(1)	iP	NEZ	00 58 21.0	
(2)	eP eS LQ LR	NZ N'Z' N' N'Z'	04 23 45.0 27 08.0 29 12.0 29 52.0	0.6 N, 125.4 E (CGS) $D \approx 1950$ km
(3)	eP iS	NEZ NE	08 44 26.5 44 40.0	$D \approx 110$ km
(4)	eP ePP eS	NE N' N'	13 30 45.0 32 26.0 39 52.0	$D \approx 7800$ km
(5)	eP eS	NEZ NE	14 36 27.5 36 50.0	$D \approx 210$ km
(6)	e(P) eS LR	NE N' Z'	21 19 07.5 23 48.0 26 04.0	2.3 S, 138.5 E (CGS) $D \approx 3100$ km
(7)	iP iP iS	NEZ N'E'Z' N'E'Z'	23 50 26.0 50 26.0 53 08.0	7.1 N, 123.5 E (CGS) $D \approx 1100$ km
23 JUN				
(1)	eP	E	08 21 03.0	
(2)	eP	E	10 49 03.0	
(3)	iP iP iS LQ	Z N'E'Z' N'E'S' N'	11 20 51.0 20 51.0 30 28.0 40 58.0	56.6 N, 152.9 W (CGS) $D \approx 8300$ km
(4)	eP iS LR	NEZ N'Z' Z'	16 14 26.0 19 00.0 22 02.0	4.1 S, 135.3 E (CGS) $D \approx 2800$ km
(5)	eP eS	NEZ NEZ	16 33 56.0 34 00.0	

Date	Phase	Comp.	Time (GCT)			Distance (km)	
23 JUN (6)	eP	NZ	17	01	44.5	130	
	eS	Z		02	00.0		
24 JUN (1)	iP	NZ	04	53	37.2	2500	
	iP	E'		53	37.2	35.5 N	
	eX	E'Z'		54	39.0	135.4 E (CGS)	
	eX	E'Z'		56	22.0		
	eX	N'		59	14.8		
	LR	Z'	05	03	36.0		
	(2)	iP	NEZ	07	47	49.8	1200
		eP	N'E'Z'		47	49.8	7.0 N
		iS	N'E'Z'		50	05.0	126.2 E (CGS)
		LQ	E'		50	34.0	
		LR	Z'		51	35.5	
	(3)	iP	NEZ	14	19	52.4	
	(4)	LR	Z'	14	43	45.0	
	(5)	eP	Z'	14	54	54.0	2210
		eS	Z'		58	25.0	
(6)	iP	NEZ	22	25	51.0		
(7)	iP	NEZ	23	09	34.5	400	
	eP	N'E'Z'		09	34.5	20.1 N	
	eS	N'E'Z'		10	33.0	120.8 E (CGS)	
25 JUN (1)	iP	NEZ	12	52	34.6	1000	
	eS	E'		54	35.5	9.6 N	
	LQ	N'E'		54	57.0	126.3 E (CGS)	
	LR	E'Z'		55	29.0		
	(2)	iP	NEZ	13	58	25.7	
26 JUN (1)	iP	NEZ	04	41	27.4		
	(2)	iP	NE	04	42	59.5	
		LR	Z'		43	42.0	
	(3)	iP	NEZ	11	49	24.5	190
		iS	N		49	45.2	
	(4)	iP	NEZ	16	55	38.0	
		LR	E'Z'		55	48.0	
	(5)	eX	N'E'	20	40	10.0	

Date	Phase	Comp.	Time (GCT)	Distance, (Km)		
26 JUN	(6) iP	NEZ	21 40 02.0	1980		
	eS	N	43 16.4			
	LQ	N'	43 24.0			
	LR	E'Z'	43 48.0			
27 JUN	(1) eP	NEZ	00 55 05.2	3150 9.2 N 94.1 E (CGS)		
	(2) eP	Z'	01 10 21.0			
	eS	E'Z'	15 08.5			
	LQ	N'	16 17.0			
	LR	E'Z'	17 48.0			
	(3) eX	E'	06 10 47.0			
	(4) eX	N'	09 04 46.0			
	(5) iP	NEZ	10 47 34.0		970	
	eS	E'	49 12.0			
	(6) eX	E'	11 31 13.0			
	(7) iP	NEZ	11 37 57.5		850 23.8 N 121.5 E (CGS)	
		iP	N'E'Z'			37 57.5
		eS	N'E'Z'			39 18.0
		LR	Z'			39 58.2
	(8) iP	NZ	17 38 24.2		1500 4.9 N 127.5 E (CGS)	
		eS	N'E'			41 04.2
		LR	Z'			42 04.0
	(9) eP	NEZ	22 03 35.7			
		eP	Z'			03 35.7
28 JUN	(1) eP	NEZ	01 27 24.7	4300 5.1 S 153.0 E (CGS)		
	(2) iP	NEZ	03 40 57.5			
		iP	Z'		40 57.5	
		ePP	Z'		42 36.5	
		eS	N'E'		47 03.0	
		LQ	N'E'		49 49.0	
		LR	N'Z'		52 18.0	
	(3) iP	NEZ	04 55 31.0		150	
		iS	NE			55 48.2
	(4) eX	N'	08 53 17.0		800 23.9 N 121.6 E (CGS)	
	(5) iP	NEZ	15 46 42.0			
		eS	N'Z'			47 42.0
		LR	E'Z'			48 51.6

Date	Phase	Comp.	Time (HCT)	Distance (km)
28 JUN				
(6)	iP	EZ	18 07 56.0	
(7)	i(S)	Z	18 15 25.2	
(8)	i(S)	E	18 25 23.0	
(9)	i(S)	NE	18 28 23.2	
(10)	i(S)	NE	18 37 12.7	
(11)	iP	NEZ	19 19 58.6	140
	eS	N'E'	19 55.0	
(12)	iP	Z	19 24 34.5	
(13)	i(S)	Z	19 26 44.7	
(14)	i(S)	EZ	19 30 45.5	
(15)	iP	NEZ	19 54 49.8	
(16)	iP	E	20 23 30.0	
(17)	eP	Z	20 37 44.5	
29 JUN				
(1)	eX	N'	05 31 23.0	
(2)	iP	Z	06 22 03.5	120
	iS	NZ	22 17.5	
(3)	eX	N'	07 28 20.0	
(4)	eX	N'E'	08 05 05.0	
(5)	eX	N'E'	08 17 44.5	
(6)	eX	N'	08 26 32.0	
(7)	eX	N'	08 45 21.0	
(8)	iP	NEZ	09 42 35.7	150
	iS	NEZ	42 52.5	
(9)	iP	NEZ	15 36 35.4	110
	iS	NZ	36 48.0	
(10)	iP	NEZ	18 17 37.2	130
	iS	N	17 52.0	
30 JUN				
(1)	iP	NEZ	02 57 33.3	

Date	Phase	Comp.	Time (GMT)	Distance (km)
30 JUN	iP	N'E'Z'	02 57 33.3	2100
	eS	E'	03 01 18.0	1.6 S
	LR	Z'	05 24.5	126.7 E (CGS)
(2)	eX	Z'	08 43 08.0	
(3)	eP	N'	08 50 56.8	
	eS	N'	53 13.0	2750
	LR	N'E'Z'	57 11.0	
(4)	eX	N'	15 07 14.0	

Date	Phase	Comp.	Time (GMT)	Distance. (km)
01 JUL				
(1)	iP	NEZ	05 14 46.1	
(2)	iP	NEZ	06 29 25.1	
	iS	NEZ	30 05.4	380
(3)	iP	NEZ	07 05 24.3	
	iS	NEZ	05 50.9	250
	iS	N'E'	05 50.9	
(4)	eX	N'	07 27 17.9	
(5)	eX	N'E'	08 43 13.9	
(6)	iP	NEZ	09 38 55.4	
	iS	NEZ	39 06.3	90
(7)	iP	NEZ	09 45 15.5	
	iS	NEZ	46 06.9	490
(8)	eP	N'Z'	23 30 18.9	
	eX	N'Z'	32 23.0	
	eX	N'	35 59.0	
	eX	N'Z'	40 19.0	
(9)	eP	Z	23 44 24.4	
	LQ	N'E'	46 52.0	
02 JUL				
(1)	LR	Z'	01 38 09.0	
(2)	eP	Z	05 27 23.2	
	iS	NE	27 51.4	260 k
(3)	iP	N	07 11 35.6	
(4)	iP	NEZ	14 22 14.3	
	iS	E	22 17.2	
(5)	iS	N	15 21 45.3	
(6)	iP	NEZ	16 55 17.1	
	iS	NEZ	55 28.7	100
(7)	iP	NEZ	18 08 37.6	
	iS	NEZ	08 56.9	
	iS	N'	08 56.9	170
(8)	iP	NE	19 41 38.7	
(9)	eP	Z	19 48 07.7	

Date	Phase	Comp.	Time (GCT)	Distance (km)
02 JUL				
(10)	e(P)	NZ	20 18 08.4	
(11)	LR	Z'	20 45 58.3	
(12)	1P	NEZ	20 09 22.3	7300 53.1 N 167.7 W (CGS)
	1P	Z'	21 09 22.3	
	eP	N'E'	21 09 22.3	
	1S	NEZ	21 18 05.9	
	1S	N'E'Z'	18 05.9	
	LQ	N'E'	25 23.9	
03 JUL				
(1)	eX	E'	03 17 23	
(2)	1P	NEZ	09 30 13.6	190
	1S	NE	30 34.5	
(3)	eP	N	11 18 21.7	
(4)	eP	E'	11 22 35.0	
(5)	eP	EZ	11 30 35.8	2150 22.6 N 101.4 E (CGS)
	eP	N'E'Z'	30 35.8	
	eS	N'E'Z'	34 14.0	
	LQ	N'E'	34 40.0	
	LR	N'E'Z'	35 38.0	
(6)	eP	NEZ	12 27 51.8	2750 4.7 S 133.8 E (CGS)
	eP	Z'	27 51.8	
	eS	E'	32 10.0	
	G	N'Z'	32 35.0	
(7)	1P	NEZ	13 17 22.2	
	1S	NE	17 24.9	
(8)	eX	E'Z'	14 23 15.0	
(9)	eP	NZ	15 17 14.0	
(10)	1P	NEZ	17 06 29.5	70
	1S	NE	06 38.3	
(11)	eP	NE	19 44 25.5	
(12)	1(P)	NEZ	20 18 52.7	
(13)	eX	N'E'	21 16 38.0	
(14)	1P	NE	22 50 08.7	

Date	Phase	Comp.	Time (GCT)	Distance (km)
04 JUL				
(1)	iP	NE	04 12 53.6	
(2)	iP	NE	04 46 40.5	
(3)	eP	E	06 37 46.8	
(4)	iP	NEZ	08 26 20.7	160
	iS	Z'	26 38.7	
	eS	N	26 38.7	
(5)	eX	N'	11 58 29.5	
(6)	eX	N'E'	12 16 10.0	
(7)	eX	N'E'	12 26 04.0	
(8)	eX	N'Z'	12 34 40.0	
(9)	iP	E	12 41 30.3	
(10)	eX	N'E'Z'	12 47 53.2	
(11)	eX	E'	12 54 13.0	
(12)	eX	N'E'Z'	13 30 17.0	
(13)	eX	N'	14 02 10.0	
(14)	LR	N'E'Z'	14 43 36.0	
(15)	eX	E'	15 10 39.5	
(16)	eX	N'E'	16 59 07.0	
(17)	eX	N'E'	17 34 03.8	
(18)	eX	N'E'Z'	22 21 19.5	
05 JUL				
(1)	eX	Z'	01 58 24.7	
(2)	eP	NE	03 00 13.2	
(3)	eX	N'E'	03 00 39.0	
(4)	eX	N'E'Z'	03 10 34.7	
(5)	e(P)	NE	03 10 38.2	
(6)	eP	NEZ	03 31 15.5	250
	iS	NZ	31 42.9	
	eS	E'	31 42.9	

Date	Phase	Comp.	Time (GCT)	Distance (km)
05 JUL				
(7)	eP	E	03 43 30.7	90
	iS	NE	43 41.6	
(8)	iP	NEZ	06 46 33.5	110
	iS	NEZ	46 46.3	
(9)	eP	Z	08 09 38.3	85
	iS	E	09 48.1	
(10)	eX	N'Z'	09 00 13.5	
	(PPS)	N'E'	06 08.5	
	SS	N'	10 15.0	
	SSS	N'	14 09.0	
	eX	E'	16 43.0	
	LQ	E'	18 53.0	
	LR	Z'	24 14.4	
(11)	iP	NEZ	12 49 54.2	
(12)	eP	NEZ	18 07 42.6	180
	iS	NEZ	08 02.7	
(13)	iS	NE	21 24 43.8	
(14)	iP	NE	21 28 29.2	
06 JUL				
(1)	iS	NEZ	01 20 13.9	
(2)	eP	Z	03 14 51.0	
	eP	E'	14 51.0	
	eX	E'	23 29.9	
(3)	iP	NEZ	03 31 22.9	
	iP	N'E'Z'	31 22.9	9550
	PP	E'Z'	35 13.8	38.7 N
	S	Z'	43 31.0	22.6 E (CGS)
	eX	Z'	47 29.0	
	PSPS	N'	51 06.0	
	SSS	N'E'	54 12.0	
	LR	Z'	04 02 16.0	
(4)	iP	NZ	04 11 46.9	
(5)	iP	NEZ	04 16 20.3	
(6)	eP	Z	04 30 37.0	
(7)	iP	NZ	04 37 11.0	1300
	eS	N'	39 41.6	7.4 N
	LQ	E'	40 16.0	127.0 E (CGS)

Date	Phase	Comp.	Time (GST)	Distance (km)
06 JUL				
(8)	eP	NEZ	04 40 16.0	
(9)	iP	EZ	05 07 47.6	
(10)	iP	NE	07 43 55.7	
(11)	i(P)	NE	10 13 00.0	
(12)	eX	N'E'	13 12 24.0	
(13)	iP	NE	18 12 36.8	
(14)	ePP	NEZ	18 43 38.4	
	ePP	N'E'Z'	43 38.4	
	eS	NEZ	49 06.7	
	eS	N'E'Z'	49 06.7	
	(G)	N'E'	52 10.0	
(15)	iP	NEZ	21 56 21.7	
07 JUL				
(1)	e(P)	NE	03 29 27.0	
(2)	(LR)	E'Z'	07 49 14.0	
(3)	eX	N'E'	09 16 17.0	
(4)	e(S)	N'	12 28 10.0	
	(SS)	E'	35 37.4	
	LR	Z'	39 38.8	
(5)	eX	N'E'	14 48 26.0	
(6)	eX	N'	15 08 28.7	
(7)	eP	Z'	15 48 42.0	7950
	eS	N'E'Z'	58 15.0	15.0 S
	SSS	N'	16 06 18.0	173.0 W
	LR	E'Z'	11 05.0	
(8)	eX	N'	16 36 31.0	
(9)	eX	N'	16 46 29.5	
	eX	N'E'	51 07.0	
(10)	eX	N'	17 20 30.0	
	eX	N'	24 05.0	
	eX	N'	35 24.0	
	eX	N'	38 10.0	

Date	Phase	Comp.	Time (GST)	Distance (km)
07 JUL				
(11)	eX	N'	17 49 24.0	
	eX	N'E'	50 20.0	
(12)	eX	N'	18 00 22.0	
	eX	N'	07 07.0	
(13)	eP	N'	18 25 06.0	
	eX	N'	38 09.5	
	eX	N'	46 44.3	
(14)	iP	NE	19 49 16.8	
(15)	iS	NEZ	21 17 13.4	
(16)	eP	NEZ	21 43 37.6	
	iX	N	44 28.5	
	eX	N'E'Z'	48 44.0	
(17)	iP	Z	23 05 48.0	3100
	eS	N'Z'	10 22.5	6.9 S
	LR	N'Z'	13 50.0	105.6 E (CGS)
(18)	LR	Z'	23 36 17.0	
08 JUL				
(1)	eP	N	03 32 04.0	
	LR	Z'	32 44.0	
(2)	eX	N'E'Z'	05 58 36.0	
(3)	eX	N'	07 36 22.0	
	LR	N'Z'	40 33.0	
(4)	eP	N	08 49 02.5	260
	eS	N	49 30.0	
(5)	eX	E'	09 47 24.0	
(6)	eX	N'	10 23 56.0	
(7)	eX	N'	11 19 08.0	
(8)	eX	N'	11 48 30.0	
	eX	N'	57 30.0	
(9)	eX	N'	16 35 43.0	
(10)	eX	N'	17 16 14.0	
(11)	eP	NE	17 50 05.5	110
	eS	NE	50 18.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)	
09 JUL	(1)	eP	Z	00 47 39.0	
		eX	Z	47 52.5	
	(2)	e(S)	E'	00 52 18.0	
		LQ	N'	54 18.0	
		LR	Z'	54 48.0	
	(3)	eP	E	07 44 42.5	
		e(S)	E	45 07.0	
(4)	eX	E	08 21 26.5		
(5)	eP	EZ	09 19 01.5	300	
	iS	N'	19 34.0		
(6)	eP	N	12 51 08.0	360	
	eS	N	51 46.5		
	LR	Z'	52 12.0		
(7)	eP	E	20 45 18.0	550	
	eS	E	46 15.0		
10 JUL	(1)	eP	E	02 04 29.0	160
		eS	E	04 47.0	
	(2)	eP	N	04 52 00.0	45
		iS	N	52 07.0	
		(LR)	Z'	52 48.0	
	(3)	eX	N'	05 33 07.0	
	(4)	eX	N'E'	06 23 50.0	
		eX	N'	27 52.0	
	(5)	eX	N'	06 51 22.0	
	(6)	eX	N'	07 39 08	
	(7)	eX	N'	12 40 54.0	
(8)	eX	N'	12 48 08.0		
(9)	iP	NEZ	14 36 18.0		
	e(S)	N	36 24.0		
(10)	eP	N	21 12 45.0	20	
	eS	N	12 50.0		
(11)	eX	Z	21 28 43.0		

Date	Phase	Comp.	Time (GCT)	Distance (km)
11 JUL	(1)	eP IS	NE NE 02 30 02.0 30 11.5	45
	(2)	eX	NE 03 38 02.0	
	(3)	iP eS	NEZ NE 04 47 22.0 47 45.0	210
	(4)	eP eX	Z E' 04 28 49.0 30 00.0	
	(5)	eP eS	NE NE 11 22 48.5 22 58.5	80
12 JUL	(1)	eP e(S)	NEZ E 06 46 41.0 47 29.5	
	(2)	eX	E 08 15 19.0	
	(3)	eP	Z 08 48 18.5	
	(4)	eX	E 09 49 02.0	
	(5)	eX	N 15 38 00.0	
	(6)	eP eS	N N 15 47 10.5 47 13.0	
	(7)	eX	Z 16 05 58.5	
13 JUL	(1)	LR	Z' 14 49 23.0	
14 JUL	(1)	eP	NE 05 59 17.0	
	(2)	eP	N 18 17 02.0	
15 JUL	(1)	e(P) e(S)	NE NE 07 20 16.5 20 35.0	
	(2)	eP eP eS	NEZ N'E'Z' NEZ 09 20 18.5 20 10.5 20 15.0	20
	(3)	eX	NEZ 13 24 36.0	
	(4)	eP	NEZ 17 55 19.0	
	(5)	eP	NEZ 18 16 06.5	

Date	Phase	Comp.	Time (GCT)	Distance (km)	
15 JUL	(6)	iP	NEZ	18 35 43.0	1050 7.7 N 123.8 E (CGS)
		iP	N'E'Z'	35 43.0	
		iS	N'	37 27.6	
	(7)	iP	Z	18 43 36.0	
	(8)	iP	NEZ	22 45 52.0	80
		iS	NEZ	46 01.5	
16 JUL	(1)	eX	Z	01 39 50.0	
	(2)	eX	Z	02 19 42.0	
	(3)	eP	NEZ	11 24 00.0	200
		eS	NE	24 22.0	
	(4)	eX	Z	11 47 05.0	
	(5)	eX	Z	13 26 24.0	
	(6)	(PPP)	Z'	13 34 04.0	
		eS	E'	37 29.0	
		(LR)	Z'	44 12.0	
	(7)	eP	NEZ	16 40 20.0	
		e(S)	N'E'Z'	44 06.0	
	(8)	eP	NEZ	18 00 52.0	100
iS		NE	01 04.0		
(9)	iP	NEZ	20 24 38.0		
	iP	N'E'Z'	24 38.0		
(10)	iX	NE	20 30 57.0		
(11)	eX	NE	20 35 12.0		
(12)	eP	Z & Z'	22 42 33.5	5900 11.8S 166.1 E (CGS)	
	eS	Z	49 49.0		
	eSS	Z	53 40.0		
	LR	Z'	23 00 12.0		
17 JUL	(1)	iP	NEZ	01 31 52.0	70
		eS	N'E'Z'	32 01.0	
	(2)	iX	NE	03 34 07.0	
	(3)	eP	E	03 50 26.5	
		i(S)	E	50 33.5	
(

Date	Phase	Comp.	Time (GCT)	Distance (km)	
17 JUL	(4)	eP	Z & Z'	07 29 00:0	5260 9.7 S 159.8 E (CGS)
		e(PP)	Z'	30 41:0	
		eS	NE	35 52:0	
		eSS	N'Z'	39 29:6	
		LR	E'Z'	42 48:0	
	(5)	iP	Z & Z'	12 55 26:0	4500 7.2 S 153.6 E (CGS)
		eP	NE & N'E'	55 26:0	
		eS	N'E'	13 01 33:0	
		LQ	N'	05 28:5	
		LR	Z'	07 08:0	
	(6)	e(S)	NEZ	13 10 52:0	
	(7)	eP	Z	17 49 31:5	
		i(P)	NE	49 34:5	
	(8)	eP	Z	18 13 02:0	
	(9)	iX	NE	20 15 40:8	
18 JUL	(1)	eX	N	04 53 47:8	
	(2)	eP	NEZ	05 37 45:0	
		(LR)	Z'	42 12:0	
	(3)	eP	NEZ	09 45 31:0	250
eS		E	45 58:0		
(4)	e(S)	N'Z'	22 32 44:0		
	LR	Z'	36 09:0		
19 JUL	(1)	eP	Z	01 28 37:7	140
		eS	NE	28 54:0	
	(2)	e(P)	Z	02 39 08:0	
		eS	E	39 24:0	
	(3)	e(P)	Z	04 27 36:5	
		iS	N	27 51:5	
	(4)	e(P)	Z	04 33 14:5	
		LR	Z'	38 02:0	
	(5)	e(P)	Z & Z'	05 47 43:0	
		eS	N'E'	54 08:0	
		LR	Z'	06 00 06:0	

Date	Phase	Comp.	Time (GCT)			Distance (km)		
19 JUL	(6)	eP	Z	06	51	30.0		
		eX	Z'		53	37.0		
	(7)	eX	N	06	54	53.0		
	(8)	eX	Z	09	15	14.5		
	(9)	LR	Z'	09	21	48.0		
	(10)	eX	N	16	09	31.5		
	(11)	eP	Z & Z'	16	55	19.5	6000	
		eS	N' Z'	17	02	51.0	12.0 S	
		LR	Z'	12	46.0	166.0 E (CGS)		
	20 JUL	(1)	LR	Z'	01	43	00.0	
		(2)	iX	Z	11	27	50.3	
(3)		LR	Z'	11	40	41.0		
(4)		eP	NEZ & E'	13	20	45.5	1200	
		iP	N' Z'	20	45.5	7.5 N		
		iS	N	23	02.0	124.3 E (CGS)		
	LR	Z'	23	46.0				
(5)	eP	NEZ	22	11	14.0			
(6)	eP	NEZ	23	00	43.0	350		
	iS	NE	01	10.0				
21 JUL	(1)	eP	Z'	03	03	05.0	8100	
		eS	Z'		12	32.0	20.8 S	
		eSS	E'		17	04.0	175.8 E (CGS)	
		LQ	N'		22	40.0		
		LR	Z'		27	37.0		
	(2)	eX	NE	07	58	31.5		
	(3)	eP	NEZ	16	34	31.0	280	
		iS	NE		35	01.0		
	(4)	eP	N' E'	18	01	50.0	6000	
		eX	N		02	13.6	53.3 N	
		eS	N' E'		09	22.0	170.4 E (CGS)	
		LQ	N'		15	18.0		
	(5)	(LR)	Z'	18	29	08.0		

Date	Phase	Comp.	Time (GCT)	Distance (km)
21 JUL				
(6)	eX	N	21 15 16.0	
(7)	LR	Z'	21 20 48.0	
22 JUL				
(1)	eX	N'Z'	01 36 20.0	
	eX	N'Z'	41 25.0	
(2)	eP	NEZ	07 59 04.0	230
	iS	NEZ	59 29.0	
(3)	iS	NEZ	11 42 33.5	Start of P un- certain.
(4)	eP	NEZ	15 12 39.0	315
	eS	NEZ	13 12.5	
	eX	N'E'Z'	13 13.0	
(5)	eX	NEZ	16 18 54.0	
(6)	eX	NEZ	17 15 08.5	
(7)	eP	NEZ	23 58 08.5	
	iS	NEZ	58 11.0	
(8)	eX	NE	23 59 13.5	
23 JUL				
(1)	eX	NEZ	02 32 53.0	
(2)	eX	NEZ	04 02 52.0	
(3)	eX	NEZ	15 46 20.0	
(4)	eX	NEZ	17 15 51.0	
(5)	e(P)	NEZ	19 25 57.5	
24 JUL				
(1)	eX	NEZ	05 20 08.5	Start of P un- certain.
	e(S)	E	22 12.0	
(2)	eX	E'	05 24 12.0	
	eX	E'	28 52.0	
(3)	eX	NEZ	07 17 18.0	Start of P un- certain.
	e(S)	NE	17 40.0	
(4)	e(P)	NEZ	21 11 25.5	
	e(S)	E	12 05.0	
(5)	eX	NE	21 46 56.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)		
25 JUL	(1) eP	EZ	03 45 19.0	2850 2.0°N 99.3 E (CGS)		
	eX	E	46 12.5			
	eS	N'E'	50 21.0			
	LR	Z'	53 04.0			
	(2) eX	NE	05 38 08.0			
	(3) eX	E	07 55 56.5			
	(4) eX	(LR)	NE	09 27 40.0		
			Z'	28 32.0		
	(5) e(P)	eX	(LR)	Z'	13 45 11.0	
				N'E'	47 19.0	
				E'Z'	53 55.0	
	(6) eX	NE	17 53 01.5			
	(7) iP	eX	NEZ	20 08 22.0		
			N'E'Z'	08 27.0		
(8) eX	NEZ	21 56 21.0				
(9) eP	LR	E'Z'	22 04 14.0			
		Z'	10 29.0			
26 JUL	(1) eX	Z	02 18 50.5			
	(2) eP	NEZ	06 25 31.0			
		IS	NE	25 35.5		
	(3) iP	NEZ	06 44 59.0			
		IS	NZ	45 02.5		
	(4) eX	NEZ	07 03 25.5			
	(5) LR	Z'	07 07 16.0			
	(6) eX	Z	10 53 13.0			
	(7) eP	eS	Z'	13 35 19.0	8450	
			N'E'	45 08.0		
			E'	49 31.0		
			eSSS	E'		52 54.0
			LR	Z'		57 54.0
	(8) e(P)	eX	Z'	16 15 54.5		
NEZ			22 09.0			
E			23 49.0			
Z'			24 00.0			

Date	Phase	Comp.	Time (GCT)	Distance (km)
26 JUL				
(9)	eX	NE	16 35 42.5	
(10)	eX	NE	16 53 06.0	
27 JUL				
(1)	eX	E	00 33 52.0	
(2)	iS	NEZ	00 50 43.5	Start of P uncertain.
(3)	iP	EZ	04 22 20.0	
(4)	eP	NZ	06 44 52.0	280
	iS	E	45 22.0	
	LR	E'Z'	45 45.0	
(5)	eP	NEZ	07 57 21.5	1330
	iP	Z'	57 21.5	6.0 N
	i(S)	E'Z'	08 01 42.0	126.0 E (CGS)
	LR	Z'	03 48.0	
(6)	eP	EZ	08 17 25.0	
	LR	Z'	19 26.0	
(7)	eX	N'	10 42 10.0	
(8)	eX	NEZ	12 21 47.5	
(9)	eX	NEZ	13 55 05.0	
(10)	eP	E	15 14 10.0	180
	iS	NE	14 30.0	
(11)	eX	E	15 55 11.0	
(12)	e(P)	NE	16 01 22.5	
	i(P)	Z	01 22.5	
(13)	iP	Z	16 19 34.5	
	eP	NE	19 34.5	
	LR	N'E'Z'	21 32.0	
(14)	eX	NEZ	18 32 09.0	
(15)	iP	NEZ	23 48 51.5	
	i(S)	N'E'	49 08.0	
28 JUL				
(1)	eX	NE	02 14 41.5	
(2)	eX	E'	04 03 15.0	
	e(S)	Z'	05 38.0	
	LR	Z'	07 24.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)
28 JUL	(3) eX	NE	04 07 07.5	
	(4) eX	NEZ	04 44 04.0	
	(5) iP iX	NEZ	12 27 40.5	
		NEZ	27 46.0	
	(6) iP eS eX	NEZ	22 34 33.0	4000
		E' Z'	40 08.0	
NZ		41 20.0		
29 JUL	(1) i(S)	NE	05 09 04.0	
	(2) eX	NEZ	06 01 29.0	
	(3) eX	Z	07 15 24.5	
	(4) eIP eS iS LQ LR	N'E'Z'	08 39 50.0	7040
		NEZ	48 22.0	51.2 N
		N'E'	48 22.0	171.3 W (CGS)
		N'	55 48.0	
		Z'	58 44.0	
	(5) eP i(S)	NEZ	09 40 00.0	
		NE	40 35.0	
	(6) eP iS	NEZ	09 56 36.0	180
		NE	56 56.0	
	(7) eP iS	NEZ	09 59 33.0	180
NE		59 53.0		
(8) iP iS	NEZ	14 22 44.0	180	
	NE	23 04.0		
(9) eX	NEZ	15 19 05.0		
(10) eX	N'E'Z'	15 48 16.0		
(11) e(P) e(S) (LR)	N'	15 56 20.0		
	E'	59 22.0		
	Z'	16 01 15.0		
(12) eX	NEZ	16 16 25.0		
(13) iP iS	NEZ	17 12 18.0	155	
	E	12 35.5		
(14) iP iS	NZ	18 01 32.5	185	
	NE	01 52.0		

Date	Phase	Comp.	Time (GCT)	Distance (km)
30 JUL				
(1)	eX	E	03 33 04.0	
(2)	eX	Z'	06 10 20.0	
(3)	eX	Z'	07 03 27.0	
(4)	eX	Z	07 39 50.5	
(5)	eX	E' Z'	08 40 02.0	
(6)	iP eP iS	Z NE NE	08 47 03.5 47 03.5 47 32.0	265
(7)	eP i(S)	NEZ NE	11 20 42.0 21 09.0	
(8)	eX	NE	15 04 15.0	
(9)	e(P)	NE	15 17 04.5	
(10)	eX eX	Z' Z'	19 18 52.0 20 02.0	
(11)	eX	Z'	19 23 02.0	
(12)	eX	E'	19 46 04.0	
(13)	eX LR	NEZ Z'	20 53 08.0 53 55.0	
31 JUL				
(1)	eP i(S)	Z E	02 48 15.0 48 38.5	
(2)	eP eX	NEZ N'	02 53 44.5 53 53.0	
(3)	eP iX eS	N' NEZ N'	07 05 09.0 05 09.0 09 50.0	3060 10.1 S 123.7 E (CGS)
(4)	eP eX e(S)	N' Z' Z N' E'	07 42 13.0 42 13.0 49 13.0	
(5)	eX	Z	08 05 14.5	
(6)	iP eP iS	Z NE NEZ	11 26 42.0 26 42.0 26 47.0	20

Date	Phase	Comp.	Time (GCT)	Distance (km)
31 JUL				
(7)	eX	Z	14 36	58.0
(8)	eX	NEZ	15 19	24.3
(9)	eX LR	N' Z'	16 49 52	57.0 42.0
(10)	eX e(S) LR	Z' N' Z'	17 18 22 24	49.0 54.0 18.0
(11)	eX	Z	17 59	37.0
(12)	LR	Z'	19 17	28.0
(13)	eX	NEZ	20 01	38.5
(14)	eX	Z'	20 07	42.0
(15)	eX	NEZ	20 41	38.0
(16)	e(P) LR	N' Z' Z'	21 55 22 01	40.0 14.0
(17)	eX	NZ	23 05	27.5

Date	Phase	Comp.	Time (GCT)	Distance (km)	
01 AUG	(1)	eX	NE	01 52 50.0	
	(2)	eX	NE	03 23 41.0	
	(3)	iP	NZ	09 23 42.0	1870 0.3 N, 125.8 E (CGS)
		eP	N'Z'	23 42.0	
		eS	N'E'	26 48.0	
		LR	N'Z'	28 30.0	
	(4)	eX	NE	09 27 11.0	
	(5)	eX	N'E'Z'	14 31 07.0	
	(6)	iP	NEZ	15 09 21.0	3900 46.9 N, 143.8 E (CGS)
		eP	E'Z'	09 21.0	
		eS	N'E'Z'	14 29.0	
(7)	LR	Z'	16 09 10.0		
(8)	iX	Z	16 48 44.0		
(9)	eX	NEZ	20 20 28.0		
	LR	Z'	25 05.0		
(10)	iX	Z	20 43 41.0		
	eX	NE	43 41.0		
(11)	eX	Z	23 55 07.0		
02 AUG	(1)	eP	NE	04 29 08.5	35
		iS	NE	29 15.0	
	(2)	eiP	N'Z'	13 31 55.0	8695 56.2 S, 158.2 E (CGS)
		e(PP)	N'Z'	34 46.0	
		e(PPP)	N'	36 48.0	
		eS	N'E'Z'	41 49.0	
		eX	E'	46 48.0	
eSS		Z'	47 50.0		
LQ		E'	52 14.0		
LR	Z'	56 20.0			
(3)	eP	NE	14 37 32.0		
(4)	eX	NE	14 54 12.5		
	eX	NE	56 08.5		
(5)	eP	NE	17 03 02.5		
(6)	eX	NE	17 18 15.5		
(7)	eP	NE	17 27 44.0		

Date	Phase	Comp.	Time (GCT)	Distance (km)
03 AUG				
(1)	iP iS	NE NE	00 32 14.5 32 47.0	305
(2)	iP iS	NEZ NEZ	01 31 39.5 31 54.0	120
(3)	eX	Z	02 22 20.5	
(4)	LR	E'Z'	02 47 08.0	
(5)	eX LR	E' Z'	03 09 22.0 14 11.0	
(6)	eX LR	Z' Z'	03 30 23.0 38 16.0	
(7)	eX	N	05 19 28.5	
(8)	eX	N	07 06 45.0	
(9)	eX	NEZ	07 11 01.5	
(10)	eP e(S)	NEZ N	07 14 17.0 14 44.0	
(11)	eP	NEZ	07 32 48.5	
(12)	iX	NE	07 36 08.5	
(13)	eP eS LR	Z' E'Z' Z'	08 36 07.0 41 04.0 47 10.0	3380
(14)	eX	NEZ	14 00 13.0	
(15)	iP iS	NEZ NEZ	16 44 48.0 45 08.0	180
(16)	eX	Z	18 10 00.0	
(17)	eP eX	Z' Z'	18 18 40.0 24 58.0	
(18)	eX	Z	19 16 30.5	
04 AUG				
(1)	iP eP	Z NE	08 56 17.5 56 17.5	
(2)	eP e(S) LR	N'E'Z' E'Z' Z'	09 03 44.0 09 13.0 13 21.0	

Date	Phase	Comp.	Time (GCT)			Distance (km)
04 AUG	(3)	iP eP	Z NE	12 46 58.5 46 58.5		
	(4)	iP iS	NEZ NE	16 46 33.0 46 43.5	80	
	(5)	iP eS	NEZ NE	19 02 07.0 02 21.5	120	
	(6)	iP eP iS	Z NE NE	21 48 53.0 48 53.0 49 03.5	80	
	(7)	e(P)	NEZ	23 41 10.0		
05 AUG	(1)	eX eX	NEZ NEZ	00 23 21.0 24 03.0		
	(2)	eX	NEZ	04 58 39.0		
	(3)	LR	N'E'Z'	16 02 36.0		
	(4)	e(P)	NEZ	19 59 39.6		
	(5)	e(P) e(PPP) LR	N'E'Z' N'E'Z' Z'	20 03 06.0 07 32.0 17 14.0		
06 AUG	(1)	iS	NEZ	02 38 20.0		
	(2)	eX	NEZ	02 47 22.0		
	(3)	eP	NEZ	03 56 49.0		
	(4)	LR	E'Z'	06 23 18.0		
	(5)	iP	EZ	14 37 23.0		
	(6)	eX	NEZ	16 48 55.0		
	(7)	iP eP eS LR	NEZ E'Z' NEZ, N'E'Z' Z'	18 20 05.5 20 05.5 23 55.0 24 40.0	2940 41.4 N, 131.2 E	
	(8)	eP iS	NEZ NE	19 32 07.0 32 24.5	155	
	(9)	eP	NEZ	20 43 51.0		

Date	Phase	Comp.	Time (CGT)			Distance (km)
06 AUG (10)	e(P)	Z'	00	54	56:0	
	e(S)	E	01	58	18:0	
	(LR)	Z'	21	02	49:0	
07 AUG	(1) eX	NE	01	19	04:0	
	(2) eX	N'Z'	01	26	38:0	
	(3) iX	NEZ	03	45	10:0	
	(4) e(P) iS	EZ	03	52	39:0	
		NEZ		52	53:0	
	(5) eX	NE	09	02	47:0	
	(6) iP iS	NEZ	13	00	50:0	160
		NEZ		01	08:0	
	(7) eP LQ LR	NE, N'Z'	13	29	14:0	
		N'E'		31	54:0	
Z'			34	33:0		
(8) eP LQ	Z	14	09	01:4		
	N'		11	37:0		
(9) iP eP iS	Z	16	11	14:0	490 21.0 N, 121.5 E (CGS)	
	NE		11	14:0		
	NEZ		12	01:5		
(10) eP	NEZ	20	41	45:0		
08 AUG	(1) eP iX LR	NEZ, N'E'Z'	04	35	28:0	6.8 N, 127.0 E (CGS)
		N'E'		38	40:0	
		N'E'Z'		40	53:0	
	(2) eP iS	EZ	05	52	44:5	235
		N'E'Z'		53	10:0	
	(3) eP iS LR	NEZ	09	50	01:0	1670 4.1 N, 128.6 E (CGS)
N'E'Z'			52	56:0		
N'E'Z'			56	31:0		
(4) eP	NEZ	12	44	28:0		
(5) iP eP i(S)	Z	13	04	15:0		
	NE		04	15:0		
	NEZ		04	41:0		
(6) LR	Z'	13	17	32:0		

Date	Phase	Comp.	Time (COT)	Distance (km)	
08 AUG	(7)	iP eS	NEZ NEZ	13 32 37.0 32 48.0	90
	(8)	eP	NEZ	15 34 17.0	
	(9)	(LR)	N'E'Z'	16 44 50.0	
	(10)	eX	NEZ	19 00 42.0	
	(11)	eX	NEZ	19 04 36.0	
09 AUG	(1)	eX	NEZ	01 34 05.0	
	(2)	eX	NEZ	02 42 18.0	
	(3)	iP	NEZ	05 41 26.0	
		iS	NEZ	41 29.5	
	(4)	eX	NE	07 42 15.0	
	(5)	iP	NEZ	09 21 08.5	
		eP	N'E'Z'	21 08.5	
		e(S)	N'E'Z'	21 29.0	
	(6)	iP	NEZ	09 25 23.5	175
		iS	NEZ	25 43.0	
	(7)	eP	NEZ	09 59 28.5	
		eX	N'E'	59 52.0	
	(8)	eP	NEZ	10 10 40.0	185
		iS	NEZ	11 00.5	
	(9)	eX	NE	10 12 49.0	
(10)	e(P)	Z	10 19 45.5		
	eS	NEZ	20 06.5		
(11)	eX	N'E'	10 27 33.0		
(12)	e(P)	N'E'	13 13 46.0		
(13)	e(P)	NEZ	13 43 14.0		
	iS	NEZ	43 34.0		
(14)	iS	NEZ	16 24 38.0		
(15)	eiP	NEZ	16 43 22.0	1980 0.6 S, 127.4 E (CGS)	
	iP	N'E'	43 22.0		
	eP	E'	43 22.0		
	iS	N'E'Z'	46 42.0		

Date	Phase	Comp.	Time (GCT)	Distance (km)	
10 AUG	(1)	e(P) e(S) (LR)	N' Z' N' E' Z' Z'	00 35 08:0 48 21:0 55 17:0	
	(2)	e(P) iS	NE NEZ	00 41 45:0 41 59:5	
	(3)	eX	NE	07 06 46:0	
	(4)	iP iS	NEZ NE	08 18 51:0 19 12:5	195
	(5)	e(P) e(S) eX (LR)	N' E' E' Z' Z'	08 37 31:0 44 17:0 54 37:0 58 25:0	
	(6)	iP iS	Z NE	11 11 58:0 12 24:0	240
	(7)	iP	NEZ	15 02 18:8	
	(8)	iP eP iS	Z NE NE	20 04 43:0 04 43:0 04 47:0	
	(9)	eX (LR)	E N' Z'	21 10 44:0 16 42:0	
	(10)	eX	NEZ	22 41 22:5	
11 AUG	(1)	iP eP iS	EZ Z' EZ	03 19 41:5 19 41:5 19 48:5	45
	(2)	eP eX e(S) LR	N' Z' N' Z' N' Z'	03 27 30:0 31 00:0 33 49:0 36 56:0	
	(3)	iP eP iS LQ LR	Z, N' E' Z' NE NEZ, N' E' Z' N' E' E' Z'	03 50 32:0 50 32:0 58 21:0 04 01 51:0 04 04 40:0	6200 15.4 S, 166.9 E (CGS)
	(4)	eP e(S) LQ LR	NZ, Z' N' E' N' E' Z'	07 28 25:5 36 10:0 42 28:0 45 32:0	

Bag, August, 1965

Date	Phase	Comp.	Time (GCT)			Distance (km)
11 AUG						
(5)	iP	Z	17	36	33.0	160
	eP	NE		36	33.0	
	iS	NEZ		36	51.0	
(6)	eP	NEZ	17	46	47.0	380
	iS	NE		47	27.0	
(7)	eP	Z	18	41	33.0	
	eX	Z'		44	10.0	
(8)	eX	N'E'	18	51	30.0	
(9)	eX	E'	19	18	53.0	
(10)	e(P)	NEZ	19	57	20.0	
	i(S)	Z		57	40.0	
(11)	eiP	Z	20	02	05.0	6200
	iP	N'E'Z'		02	05.0	15.7 S, 167.1 E
	eP	N		02	05.0	(CGS)
	iS	N'E'		09	56.0	
	eS	NEZ		09	56.0	
	LQ	N'		13	34.0	
	LR	Z'		18	48.0	
(12)	iP	NZ	20	23	35.0	230
	iS	Z		24	00.0	
(13)	eP	Z	21	04	49.5	
(14)	iP	Z, N'E'Z'	22	41	26.0	6210
	eP	NE		41	26.0	15.8 S, 167.2 E
	iS	NE		49	19.0	(CGS)
(15)	e(P)	Z	23	08	33.0	
(16)	eX	NZ	23	47	45.0	
12 AUG						
(1)	iP	NEZ	00	49	22.0	
	i(S)	N		50	13.5	
(2)	eX	Z	01	14	42.0	
(3)	eX	Z	01	30	23.0	
(4)	iP	NEZ	02	31	13.0	
(5)	iP	NEZ	02	42	38.0	210
	iS	NEZ		43	01.0	
(6)	iP	Z, N'E'Z'	08	11	24.0	6270

Bag, August, 1965

Date	Phase	Comp.	Time (CCT)	Distance (km)	
12 AUG	(6)	eP	NE	08 11 24.0	15.9 S, 167.5 E (CGS)
	ePP	N'E'	13 38.0		
	iS	N'E'	19 13.0		
	eS	N	19 13.0		
	eSS	N'E'	22 51.0		
	LQ	N'	25 12.0		
	LR	Z'	28 28.0		
	(7)	iX	N	12 57 23.0	
	(8)	eiP	Z, N'E'Z'	13 04 25.5	4220 5.3 S, 152.2 E (CGS)
		eP	NE	04 25.5	
		iS	NEZ	10 18.0	
		LQ	N'	13 02.0	
		LR	Z'	14 42.0	
	(9)	iP	NEZ	18 14 34.0	6230 16.0 S, 167.4 E (CGS)
		eP	N'E'Z'	14 34.0	
iS		N'E'	22 24.0		
eSS		N'E'	26 02.0		
LQ		N'E'	28 32.0		
LR		Z'	31 55.0		
(10)	eP	Z	18 33 29.0		
(11)	iP	NEZ	19 22 52.0		
	eP	N'E'Z'	22 52.0		
	LR	N'E'Z'	25 14.0		
(12)	eX	NEZ	19 30 11.0		
(13)	e(P)	NEZ	20 25 38.0		
(14)	iX	E	20 26 18.0		
(15)	iX	E	20 27 31.0		
13 AUG	(1)	iP	NZ	01 06 29.0	13.6 N, 120.1 E (CGS)
		eP	N'Z'	06 29.0	
		eX	N'Z'	07 21.0	
		(LR)	Z'	08 55.0	
	(2)	iP	NZ, N'Z'	02 13 58.0	
		iX	N'Z'	14 52.0	
			N'	16 28.0	
		(LR) ^{OX}	Z'	18 00.0	
	(3)	e(P)	NE	02 45 11.0	
		i(S)	E	45 37.5	

Date	Phase	Comp.	Time (GMT)			Distance (km)	
13 AUG	(4)	eIP	Z	04	50	35.5	6270 15.9 S, 167.5 E (CGS)
		iP	NE		50	35.5	
		eP	N'E'Z'		50	35.5	
		eS	N'E'		58	25.0	
		eSS	N'E'	05	02	10.0	
		LQ	E'		04	25.0	
		LR	Z'		07	52.0	
	(5)	eP	NE,NE'Z'	11	34	31.0	6250 16.0 S, 167.0 E (CGS)
		ePP	Z'		36	36.0	
		ePPP	Z'		38	13.0	
		iS	N'E'		42	19.0	
		iSS	N'E'		46	16.0	
		LQ	E'		48	32.0	
		LR	Z'		51	15.0	
(6)	iP	NEZ	11	59	51.0	23.8 N, 122.2 E (CGS)	
(7)	eP	EZ	12	26	18.5	375	
	iS	E		26	58.0		
(8)	eIP	Z'	12	49	43.5	6200 15.9 S, 166.8 E (CGS)	
	eP	EZ		49	43.5		
	ePT	Z'		52	19.0		
	ePPP	Z'		53	11.0		
	iS	N'E'		57	48.0		
	eScS	N'E'		59	31.0		
	eSS	N'	13	01	40.0		
	LQ	E'		03	25.0		
LR	Z'		06	36.0			
(9)	eX	EZ	13	20	03.0		
(10)	eP	Z	13	23	14.5		
(11)	eX	Z	13	35	26.5		
(12)	eX	Z	13	59	11.0		
(13)	eX	Z	14	12	51.5		
(14)	eP	NEZ, Z'	18	06	08.0	6270 16.6 S, 167.6 E (CGS)	
	ePPP	Z'		10	08.0		
	eX	EZ		10	46.5		
	eS	E		14	19.0		
	iS	N'E'		14	19.0		
	LQ	N'E'		20	19.0		
	LR	Z'		23	04.0		

Date	Phase	Comp.	Time (GOT)	Distance (km)	
13 AUG					
(15)	eX	Z	18 33	11.0	
(16)	eX	Z	19 28	11.0	
(17)	eX	Z	20 17	20.0	
(18)	eX	Z	20 20	05.5	
(19)	eX	Z	21 33	48.0	
(20)	eX	Z	21 35	02.0	
(21)	eP	Z, N'E'Z'	22 04	32.0	3920
	iS	N'E'	10	12.0	6.4 S, 148.5 E
	LQ	N'E'	13	12.0	
	LR	Z'	15	18.0	
14 AUG					
(1)	eX	Z	07 45	36.0	
(2)	iP	Z, Z'	11 17	21.0	6170
	eP	NE	17	21.0	15.8 S, 166.8 E
	iS	N'	25	11:5	(CGS)
	eS	NE	25	11:5	
	iSS	N'	28	56:0	
	LQ	N'E'	31	27.0	
	LR	Z'	34	15.0	
(3)	eX	Z	11 45	36.0	
(4)	iP	Z'	13 27	20.0	5960
	eP	NE, N'E'Z'	27	20:0	11.5 S, 166.3 E
	iS	N'E'	34	49:5	(CGS)
	iSS	N'E'	38	38:0	
	LR	Z'	43	30.0	
(5)	iP	NEZ	13 49	14.5	170
	iS	NE	49	33.5	
(6)	e(P)	NEZ	20 04	10.5	
(7)	e(P)	NEZ	21 13	47.0	
15 AUG					
(1)	iP	NEZ	04 45	07:5	14.3 N, 120.1 E
	eP	N'E'Z'	45	07.5	(CGS)
	LR	Z'	47	40.0	
(2)	iP	NEZ	05 30	09:0	
	iX	N	31	39.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)
16 AUG				
(10)	iP	Z	16 19 45.0	11.0 N, 121.7 E (CGS)
(11)	LR	Z'	16 22 12.0	
(12)	eP	EZ	16 41 52.0	
(13)	LR	Z'	16 44 19.0	
(14)	eX	Z	16 47 07.0	
(15)	eX	Z	17 13 49.0	
(16)	e(P) e(S) eX	E' N'E' Z'	17 23 00.0 29 15.0 35 18.0	
(17)	(LR)	Z'	17 43 30.0	
(18)	eP	Z	17 54 56.0	
(19)	eX	Z	18 01 24.0	
(20)	eP	EZ	18 44 17.0	
(21)	LR	Z'	23 35 32.0	
17 AUG				
(1)	iP iS	NEZ NEZ	05 09 25.5 09 35.0	70
(2)	iP iS	NEZ, Z' N'E'	07 37 46.5 39 38.0	7100 12.4 N, 125.7 E (CGS)
(3)	iP iS	NEZ N	07 42 15.5 43 30.5	730
(4)	iP iS	NE NEZ	08 00 46.0 01 19.0	310
(5)	iP iS	NEZ, Z' N'E'	08 07 34.0 09 25.0	710 12.4 N, 125.7 E (CGS)
(6)	iP i(S)	NEZ NEZ	08 39 43.5 40 59.5	
(7)	eP LR	NEZ N'E' Z'	10 11 19.0 13 08.0	
(8)	iP	Z	10 40 43.0	2980

Date	Phase	Comp.	Time (GOT)			Distance (km)
17 AUG						
(8)	eP	NE	10	40	43.0	5.3 N, 96.2 E (CGS)
	iS	N'E'		45	24.0	
	LR	Z'		47	56.0	
(9)	eX	E	10	50	47.5	
(10)	eX	Z	12	58	18.0	
(11)	eX	N'	13	03	39.0	
	eX	Z'		06	42.0	
(12)	iP	NEZ	13	11	14.0	
(13)	e(P)	Z	13	26	25.0	
(14)	iP	NEZ	14	11	57.0	
(15)	eX	NEZ	14	15	27.0	
(16)	eX	Z	14	16	57.0	
(17)	iP	NEZ, Z'	16	27	16.0	6180
	iS	N'E'		35	02.0	15.2 S, 166.6 E (CGS)
	eSS	N'E'		38	49.0	
	LQ	N'E'		41	19.0	
	LR	Z'		43	11.0	
(18)	eP	NEZ	19	12	58.0	
(19)	eX	E	20	39	56.5	
(20)	i(P)	NEZ	21	04	08.0	
	iS	NEZ		04	28.0	
18 AUG						
(1)	iP	NEZ	00	39	54.0	70
	iS	NE		40	03.3	
(2)	eP	NEZ	01	00	20.0	110
	iS	E		00	33.0	
(3)	iS	NE	01	46	04.0	
(4)	eX	Z	03	29	14.0	
(5)	eX	NE	03	56	48.0	
(6)	eX	Z	05	15	07.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)
18 AUG				
(7)	eX	Z	06 06 42.0	
(8)	iS	EZ	06 52 31.5	
(9)	eX	NEZ	06 53 50.5	
(10)	eX	Z'	07 55 42.0	
(11)	eP	Z	09 50 33.0	
	i(S)	N	51 08.5	
	eX	Z'	51 56.0	
(12)	eX	Z	11 18 29.5	
(13)	eX	EZ	12 58 25.0	
(14)	eX	E'	14 26 06.0	
(15)	e(P)	E	14 35 37.0	
	LR	Z'	50 10.0	
(16)	iP	Z	15 01 11.0	6295 16.0 S, 167.0 E (CGS)
	eP	N'Z'	01 11.0	
	eFP	E'	03 08.0	
	ePPP	Z'	05 03.0	
	iS	E'	09 02.0	
	eS	E	09 02.0	
	eScS	N'E'	11 08.0	
	eSS	N'E'	12 22.0	
	LQ	N'	16 05.0	
	LR	Z'	19 41.0	
(17)	eP	Z	16 50 08.0	110
	iS	NEZ	50 21.0	
(18)	iP	NEZ	17 56 12.0	110
	iS	NEZ	56 25.0	
(19)	e(P)	Z	18 15 38.0	
(20)	eX	E	21 15 24.0	
19 AUG				
(1)	eP	NZ, E'	00 54 12.0	
	e(S)	N'	58 16.0	
	LR	Z'	01 00 00.0	
(2)	eP	NZ	01 55 46.0	280
	iS	E	56 16.0	
(3)	iX	NEZ	02 15 52.0	

Date	Phase	Comp.	Time (GOT)	Distance (km)
19 AUG				
(4)	e X	Z'	02 51 37.0	
(5)	eX	Z	02 56 51.0	
(6)	eX	N'E'	02 59 06.0	
	LR	Z'	03 02 16.0	
(7)	eX	NE	03 25 55.0	
(8)	iP	NEZ, N'E' Z'	03 28 46.5	
	eX	N'E' Z'	29 08.0	
(9)	eP	Z	05 00 24.5	460
	iS	NZ	01 13.0	
(10)	iP	NEZ	07 48 22.5	160
	iS	NEZ	48 41.0	
(11)	eP	NEZ	11 33 15.5	230
	iS	NEZ	33 41.0	
(12)	eX	NEZ	14 49 15.0	
(13)	iP	NEZ	19 51 38.0	2440
	iS	NE	55 11.5	30.3 N, 138.4 E (CGS)
(14)	eX	Z'	19 53 36.0	
(15)	eX	E	21 26 47.0	
20 AUG				
(1)	iP	NEZ, N'E' Z'	05 59 33.5	9470
	ePP	Z'	06 02 48.0	
	ePPP	Z'	04 50.0	
	iS	N	10 00.0	
	ePPS	N'	12 06.0	
	eSS	E'	16 05.0	
	eSSS	E'	18 42.0	
	LQ	E'	23 56.0	
	LR	Z'	26 50.0	
	(2)	iP	Z	06 44 57.5
(3)	eP	NZ	08 34 15.0	
	i(S)	E	34 33.0	
(4)	LR	Z'	08 37 19.0	
(5)	iP	Z'	10 02 43.0	
	eP	Z	02 43.0	
	(PKP)	Z'	04 17.0	
	eX	E'	18 23.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)
20 AUG				
(6)	eP eS (LQ) (LR)	NEZ, N'E'Z'	15 01 51.5 05 42.0 07 47.0 09 48.0	2370
(7)	iP eP ePP ePPP iS eScS e(SS) eSSS LQ LR	Z, N'E'Z' NE N'E'Z' E'Z' N'E'Z' N' N' N' N' N' Z'	21 33 14.0 33 14.0 36 17.0 37 33.0 42 36.0 43 53.0 48 05.0 50 46.0 53 07.0 57 17.0	8160 22.9 S, 176.3 W (CGS)
(8)	eX	NEZ	22 01 43.0	
(9)	iP	NEZ	22 11 16.0	23.9 N, 121.9 E (CGS)
(10)	e(P)	Z	22 22 50.5	
21 AUG				
(1)	eX	Z'	01 21 28.0	
(2)	iP eP	Z N	03 28 07.5 28 07.5	
(3)	eX	NZ	04 54 50.0	
(4)	eX	Z	05 18 39.0	
(5)	iP eP	Z NE	06 10 18.0 10 18.0	
(6)	e(S) (LR)	E, Z' Z'	07 37 17.5 40 08.0	
(7)	eX	Z'	07 45 54.0	
(8)	eX eX	Z' Z'	08 09 31.0 11 15.0	
(9)	e(P) e(S) (LR)	Z' Z' Z'	08 17 26.0 20 45.0 23 49.0	
(10)	eX	Z'	09 19 56.0	
(11)	iX	NE	11 41 40.0	
(12)	eX	Z	13 04 08.0	

Date	Phase	Comp.	Time (GCT)			Distance (km)
21 AUG						
(13)	eP	NEZ	15	10	03.5	3070 5.9 S, 104.2 E (CGS)
	iS	N'E'		15	19.0	
	LR	Z'		17	50.0	
(14)	iP	NEZ	20	28	57.0	
	iX	NEZ		28	59.0	
	iS	NE		29	28.0	
22 AUG						
(1)	(LR)	Z'	02	37	55.0	
(2)	eX	NEZ	02	38	02.0	
(3)	eX	Z'	02	40	09.0	
(4)	eX	Z'	02	40	09.0	
(5)	eX	NEZ	03	54	48.0	
(6)	eX	Z'	03	57	14.3	
(7)	eX	Z	04	00	33.5	
(8)	eX	E,E' Z'	04	06	19.0	
(9)	eX	N'E'Z'	04	24	32.0	
	eX	NEZ		24	50.5	
(10)	eX	N'E'Z'	04	59	20.0	
	eX	N		59	30.0	
(11)	eX	NZ,E'Z'	05	20	53.0	
(12)	eX	NZ	06	53	37.5	
(13)	eX	Z	07	35	05.0	
(14)	eX	NEZ	07	58	03.5	
(15)	eX	E'	09	33	06.0	
(16)	eP	NEZ	10	00	18.0	
(17)	(LR)	E'Z'	10	02	50.5	
(18)	e(P)	NEZ	10	07	43.5	
	eS	NE		07	47.5	
(19)	eX	NEZ	10	26	22.0	
	(LR)	Z'		28	41.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)
22 AUG				
(20)	iP	NEZ	10 51 31.5	
(21)	eX	NEZ	11 42 40.5	
(22)	eX	NEZ	16 26 13.0	
23 AUG				
(1)	iP	Z	00 06 22.5	
(2)	eX eX	Z' N	03 43 46.0 43 53.5	
(3)	eX eX	N'E'Z' E	03 46 06.0 46 13.0	
(4)	eX eX	NE E'Z'	04 17 14.0 17 22.0	
(5)	e(P)	E	07 40 24.0	
(6)	e(P)	N, Z'	07 56 43.0	
(7)	eX	Z'	08 06 49.0	
(8)	eX	NE	08 28 44.0	
(9)	eX	Z'	08 42 47.0	
(10)	eX	N	10 42 11.5	
(11)	eP	Z	14 21 21.5	
(12)	e(P)	Z'	14 44 24.0	
(13)	e(P) e(S)	EZ Z	17 22 04.0 22 21.0	
(14)	iP iS	Z E	18 46 58.0 48 28.5	835 23.3 N, 120.7 E (CGS)
(15)	eP ePKP eX	Z' Z, Z' N'	20 02 09.0 05 14.5 25 00.0	16.3 N, 98.5 W (CGS)
(16)	eX	N	21 05 06.0	
(17)	i(P) i(S)	NZ N	22 01 50.5 02 02.5	
24 AUG				
(1)	eX	Z	00 01 39.0	

Bag, August, 1965

Date	Phase	Comp.	Time (GCT)	Distance (km)	
24 AUG	(2)	(LR)	Z'	00 23 34.0	
	(3)	eP	NZ	01 03 38.5	80
		iS	NZ	03 48.5	
	(4)	iS	N	04 30 28.0	
	(5)	iP	NZ, Z'	04 53 19.0	2810
		iS	N'	57 40.0	5.8 S, 132.37 E
		LQ	N'	58 56.0	MO
		LR	Z'	59 00.0	
	(6)	eP	NEZ	07 17 42.0	
	(7)	eX	N	07 33 40.5	
	(8)	eP	Z	09 19 32.5	980
		iS	E'	21 12.0	7.7 N, 118.93 E
		(LR)	Z'	22 08.0	MO
	(9)	e(P)	N'E'	13 34 08.0	
	(10)	eP	NEZ	14 28 46.0	
	(11)	(LR)	Z'	14 30 56.0	
	(12)	eP	NZ	15 59 31.0	1630
		eS	NE	16 02 13.0	
		LR	Z'	03 50.5	
	(13)	eX	N	19 33 48.6	
25 AUG	(1)	eP	Z	00 20 16.0	415
		iS	NE	20 58.5	
	(2)	eP	Z	04 03 51.5	
		e(S)	E	04 19.5	
	(3)	eP	Z	05 10 24.5	
	(4)	i(S)	NEZ	06 17 34.5	
	(5)	eX	Z	07 14 39.0	
	(6)	i(S)	NEZ	08 43 05.5	
	(7)	iP	NEZ	09 52 43.5	130
		iS	E	52 58.5	15.2 N & 120.05 E
					MO

Date	Phase	Comp.	Time (GCT)	Distance (km)
25 AUG	(8) iX	N	15 34 18.0	
	(9) e(P)	Z	17 49 54.6	
	(10) eX	N	19 06 07.5	
	(11) eX	N'E'	19 17 13.0	
	(12) eX	E	22 14 17.5	
26 AUG	(1) eP	Z	01 01 15.5	
	i(S)	N	01 31.5	
	(2) eX	E	03 12 06.0	
	(3) eX	NE	06 10 49.0	
	(4) LR	E' Z'	06 44 08.0	
	(5) eX	NE	06 56 13.0	
	(6) LR	Z'	07 08 19.0	
	(7) LQ	N'E'	15 08 12.0	
(8) eP	NEZ	16 49 08.0		
e(S)	E	49 35.0		
27 AUG	(1) i(P)	NEZ	00 01 41.0	
	(2) eX	N'E'	02 53 42.0	
	(3) e(P)	Z	04 34 12.0	
	(4) eX	Z'	07 17 34.0	
		(LR) Z'	22 27.0	
	(5) eP	NEZ, Z'	18 29 09.5	4030 44.6 N, 148.9 E
		eS N'E'	34 48.0	
(LR) Z'		38 19.0		
(6) eX	NE	19 33 44.0		
(7) eX	N	21 25 10.0		

Date	Phase	Comp.	Time (GCT)	Distance (km)
28 AUG				
(1)	iP iS	NZ N'	04 16 49.5 17 06.0	145
(2)	eX	E	05 27 19.0	
(3)	eX	Z	10 45 54.0	
(4)	e(P)	E'	10 51 24.0	
(5)	e(P) e(S)	NEZ E	12 15 22.0 15 40.0	
(6)	eP i(S)	Z E	12 32 27.0 32 52.5	
(7)	eX	E'	18 24 13.0	
(8)	eX	N'E'	18 33 18.5	
(9)	eX	Z	18 42 26.0	
(10)	eX	Z	19 57 18.0	
(11)	eX	N'E'	20 03 24.5	
(12)	e(P) iS	Z N	20 24 13.6 24 33.0	
(13)	eX	E'	22 23 24.0	
29 AUG				
(1)	e(P) eX	Z Z	02 05 09.5 08 38.0	
(2)	eX (LR)	Z' Z'	02 46 32.0 03 03 32.0	
(3)	eX	E	08 56 41.0	
(4)	iS	NEZ	09 19 05.5	
(5)	eX eX	E' E'	09 29 32.0 33 55.0	
(6)	eX	E'	09 45 29.0	
(7)	eX	E'	10 11 05.0	
(8)	iP ePPP	Z, Z' Z'	12 56 15.5 13 00 12.0	5850 11.6 N, 175.28 E MO

Bag, August, 1965

Date	Phase	Comp.	Time (GCT)	Distance (km)
29 AUG	(8)	iS	Z, N'E'	13 04 10.0
	eS	NE	04 10:0	
	eSS	E'	07 41.0	
	LQ	N'E'	10 13.0	
	LR	Z'	13 22.0	
	(9)	eX	NEZ	13 43 36.0
	(10)	eP	NEZ	13 57 29.5
	(11)	eX	Z	14 10 08.0
	(12)	eP	NEZ	14 17 44.5
		i(S)	Z	17 50.0
	(13)	eX	Z	15 28 19.5
	(14)	eX	Z	15 59 31.5
	(15)	eX	Z	16 17 41.0
	(16)	e(P)	NZ	17 27 38.5
		e(S)	N	27 53.5
	(17)	eP	Z	18 41 11.0
	(18)	eX	EZ	18 48 05.0
	(19)	e(P)	E'	18 53 12.0
		e(S)	E'	56 22.0
		(LR)	Z'	58 11.0
	(20)	eX	Z	19 58 53.5
	(21)	eP	NEZ	21 18 51.5
i(S)		NEZ	19 02.0	
30 AUG	(1)	eP	NEZ	01 05 50.5
		i(S)	Z	06 00.0
	(2)	e(P)	Z	01 35 47.0
	(3)	e(P)	EZ	02 26 23.0
	(4)	eP	Z, Z'	03 41 49.0
		ePPP	Z'	45 39.5
		iS	N'	49 40.0
		eSS	N'E'	53 32.0
		LQ	E'	55 50.0
		LR	Z'	59 10.0

6340
13.3 N, 174.3 E
(MO)

Bag. August, 1965

Date	Phase	Comp.	Time (GCT)	Distance (km)
30 AUG				
(5)	eX	Z	03 57 52.0	
(6)	iP iS	NEZ N	05 32 07.0 32 15.6	70
(7)	eP	Z	05 54 34.5	
(8)	eX	Z	06 46 03.5	
(9)	eX	Z	11 58 07.5	
(10)	eX LR	N'E' Z'	12 00 25.0 02 33.0	
(11)	e P	EZ	14 03 47.5	5.5 N, 126.0E (GCS)
(12)	e(P) LR	Z' Z'	14 05 41.0 08 57.0	
(13)	i(P) i(S)	NEZ E	16 47 31.5 47 47.0	
(14)	eX	NEZ	18 12 06.5	
(15)	eP iS LR	NZ NEZ Z'	18 15 27.0 20 34.0 23 15.0	3100 6.5 S, 104.7 E (GCS)
(16)	e(P) iS	N N	23 06 41.5 06 52.5	
31 AUG				
(1)	eX	Z	02 46 44.0	
(2)	eX	Z	02 59 17.0	
(3)	iP eP	Z N	03 51 38.5 51 38.5	
(4)	eX eX (LQ) LQ LR	Z' Z, Z' N' N' Z'	07 53 22.0 55 27.0 59 57.0 08 03 05.0 18 03.0	
(5)	iP iS	NEZ N	14 22 11.5 22 39.5	260
(6)	e(P)	NZ	16 46 12.0	
(7)	eX	N	18 38 53.0	

Date	Phase	Comp.	Time (GOT)	Distance (km)
31 AUG				
(8)	eP	NEZ	19 47 59.0	2650
	iS	E'	51 47:0	17.0 N, 145.2 E
	LR	N'E'Z'	53 38.0	(CGS)
(9)	eP	NEZ	20 39 40.0	115
	iS	NE	39 53.5	
(10)	iP	NEZ	22 51 10.5	1290
	eS	Z'	53 20.0	7.3 N, 128.03 E
				MQ

Date	Phase	Comp.	Time (GCT)	Distance (km)
01 SEPT				
(1)	iP eP	Z NE	04 36 28.4 36 28.4	
(2)	eX eX	Z' EZ	04 40 27.9 42 12.9	
(3)	eX	Z'	05 09 15.9	
(4)	(LR)	Z'	05 24 16.9	
(5)	iP eP i(S)	NEZ Z' Z'	06 47 52.9 47 52.9 48 34.9	
(6)	eX (LR)	N'E' Z' Z'	06 56 23.9 59 38.9	
(7)	eX	N'E'	07 12 07.9	
(8)	iP iS	NEZ, Z' NEZ	08 56 19.9 56 49.9	280
(9)	iP i(S) (LR)	EZ N'E' Z'	11 13 11.9 15 03.9 15 37.9	
(10)	iP	EZ	11 40 43.9	
(11)	eX	Z	13 52 20.9	
(12)	eX	Z	22 38 52.9	
02 SEPT				
(1)	eX	Z	00 02 44.9	
(2)	eX	Z	00 27 37.9	
(3)	eX	EZ	00 58 33.0	
(4)	e(P)	NZ	03 11 29.0	
(5)	eX	NE	03 15 53.5	
(6)	iP eP iS LQ LR	Z Z' N'E' N'E' Z'	04 36 12.0 36 12.0 44 00.0 49 38.0 53 31.0	Aleutian Islands 51.9 N, 175.5 E (CGS)
(7)	iP	Z	10 43 23.0	370

Date	Phase	Comp.	Time (GCT)	Distance (km)
02 SEPT				
(7)	eP iS (LR)	NE N Z'	10 43 23:0 44 02:0 44 14.0	
(8)	iP	Z	12 01 53.5	
(9)	eP iS	NEZ E	14 36 46:0 37 02.5	145
(10)	eX	Z	18 59 19.5	
(11)	e(P) e(S)	NZ N'E'	19 02 56:5 04 10.0	
(12)	e(P)	Z	19 35 54.0	
(13)	eX eX LR	Z' E' Z'	19 49 22.0 51 49:0 52 48.0	
(14)	e(P)	Z	22 18 44.0	
(15)	eX	Z	22 46 35.0	
(16)	eX	Z	23 18 50.5	
(17)	eP iS	Z NE	23 48 40:0 48 49.0	70
03 SEPT				
(1)	eX	EZ	00 13 17.6	
(2)	e(P)	NZ	01 27 02.0	
(3)	eP	NEZ	01 36 26.0	
(4)	eX	Z	02 00 16.0	
(5)	i(P)	NEZ	09 30 10.5	
(6)	e(P) iS	Z NE	11 51 11:5 51 19.5	
(7)	eX	NEZ	12 01 50.0	
(8)	eP	NE	15 47 35.0	
(9)	iP iS	NEZ NEZ	16 43 55.0 44 10.0	130

Date	Phase	Comp.	Time ()	Distance (km)
03 SEPT				
(10)	iS	NEZ	17 22 00	
(11)	iP	NEZ	21 46 18.5	4370
	eP	Z'	46 18.5	17.5 S 142.7 E
	ePP	Z'	47 51.5	(MO)
	eS	N'E'	52 17	
	LQ	N'E'	55 16	
	LR	Z'	57 20	
04 SEPT				
(1)	eP	NEZ	00 58 20	155
	iS	NE	58 37.5	
(2)	iP	NEZ	01 08 00	
	LR	Z'	10 20	
(3)	i(P)	Z	01 28 05.5	
(4)	eP	NEZ	06 27 25	
	i(S)	N	27 58.5	
(5)	iX	Z	07 59 22	
(6)	e(P)	Z'	08 09 17	
	e(S)	N'	16 04	
	LR	Z'	22 17	
(7)	eX	N'E'	08 30 08	
	eX	N	32 46	
(8)	iP	Z'	10 27 28	46.6 N, 153.5 E
	eP	NEZ, N'		(CGS)
		E'	27 28	
	ePP	Z'	29 11	
	iS	N'E'Z'	33 37	
	LQ	NE	36 50	
	LR	Z	39 49	
(9)	iP	NEZ, N'E'Z'	14 44 25.5	58.2 N, 152.6 W
	ePPP	Z'	49 52	(CGS)
	iS	N'E'	53 59	
	eSS	N'E'	59 31	
	e(SSS)	N'	15 03 19	
	LQ	N'	08 13	
	LR	Z'	11 24	
(10)	e(P)	Z	22 45 35.5	

Date	Phase	Comp.	Time (GMT)	Distance (km)	
05 SEPT	(1)	eP eS	NEZ N	08 12 22 18 47	230
	(2)	eX	Z	09 53 13	
	(3)	eX	Z	10 39 03.5	
	(4)	e(P)	N	10 48 37	
	(5)	eX	Z	11 41 24.5	
	(6)	e(P)	NE	15 04 11.5	
	(7)	eP iS eX	NEZ E Z'	16 03 41 04 06 04 15	230
	(8)	eX	E	17 39 38.5	
	(9)	e(P)	NE	20 03 22	
	(10)	e(P)	NE	20 14 30	
	(11)	eP iS	NEZ N	20 34 47 35 12.5	235
	(12)	eP iS	NEZ NE	22 26 35 27 00.8	230
	(13)	eP e(S) (LR)	Z N'E' Z'	23 03 07 04 27 05 30	20.8 N, 121.4 E (CGS)
	(14)	e(P)	NZ	23 28 50	
	(15)	e(P)	NEZ	23 37 39	
	(16)	e(P) eX (LR)	Z' Z Z'	23 50 53 51 15.5 58 53	
06 SEPT	(1)	iP	NZ	01 56 57	
	(2)	iP (LR)	NEZ Z'	02 57 27 03 00 02	
	(3)	iP	NEZ	03 19 49.3	Taiwan Region 21.2 N, 121.4 E (CGS)

Date	Phase	Comp.	Time (GCT)	Distance (km)
06 SEPT				
	eP	Z'	19 49.3	
	iS	E'	20 45	
	iX	E'	21 07	
	eX	N'	22 51	
(4)	e(P)	NZ	05 58 46	
(5)	e(P)	Z	06 29 27.5	
	iS	NE	29 38.5	
(6)	eP	NEZ	11 23 05.5	
(7)	eP	NEZ	12 37 08.3	
(8)	eX	E	15 53 13.8	
(9)	eX	NE	15 59 17	
(10)	e(P)	NEZ	17 42 47	
(11)	eX	E'	19 28 54	
(12)	LR	Z'	19 38 49	
(13)	eX	NE	21 07 18	
(14)	eP	Z Z'	21 33 13	
(15)	eX	Z'	22 56 17	
	(LR)	Z'	22 02 41	
(16)	(LR)	Z'	22 21 18	
(17)	eX	N	23 21 10	
07 SEPT				
(1)	e(P)	NEZ	01 34 22.5	
(2)	eX	N	05 46 30	
(3)	eP	EZ E'Z'	07 02 23.5	2630 31.5 N, 140.68 E (MO)
	eS	N'	06 33	
	LR	Z'	07 47	
(4)	eP	EZ	08 38 29	

Date	Phase	Comp.	Time (GCT)			Distance (km)
07 SEPT	LR	Z'	55	55		
(5)	e(P)	EZ	08	57	35	
(6)	i(P)	Z	11	24	39	
	eX	Z		27	19.5	
(7)	eP	Z	15	33	09.6	1890
	eS	E'		36	16	
(8)	iP	ZZ'	15	44	40	18.2 N, 144.2 E
	eS	E'		48	54	(CGS)
	LR	Z'		50	26	
(9)	eP	NEZ	17	27	40	
(10)	e(P)	NZ	17	48	43	
(11)	e(P)	NEZ	20	00	41	
(12)	iP	NEZ	20	55	43	45
	iS	NE		55	50	
08 SEPT						
(1)	eX	NE	02	21	37	
(2)	e(P)	NEZ	03	03	27.5	
(3)	eX	NE	03	13	06	
(4)	eP	NZ	03	37	59.5	57.5 N, 152.1 W
	eS	N'E'		47	48	(CGS)
	LR	Z'	04	03	43	
(5)	iS	NEZ	06	26	44	
(6)	eP	NEZ	06	34	04.8	150
	iS	NE			22.5	
(7)	eP	NZ	07	06	38	19.2 N, 145.3 E
						(CGS)
(8)	eX	N'	07	10	38	
(9)	e(P)	NZ	07	39	50	
(10)	iP	NEZ	10	53	49.5	230
	iS	E		54	14.5	

Date	Phase	Comp.	Time (GMT)	Distance (km)
08 SEPT				
(11)	eP	NEZ	11 26 38.5	
(12)	e(P)	Z'	11 27 41	
	iS	N'	37 33	
	LR	Z'	46 38	
(13)	e(P)	NEZ	11 58 25	
(14)	eX	Z	20 04 26	
09 SEPT				
(1)	iP	NZ	03 03 45.5	310
	iS	E	04 19	14.7 N, 119.8 E (MO)
(2)	eP	Z	04 46 22	5390
	eS	N'	52 48	
	LR	Z'	56 58	
(3)	e(PKP)	Z	10 22 04.5	
	i(SS)	N'	44 28	
	(LQ)	E'	11 03 13	
	(LR)	Z'	10 15	
(4)	eP	Z	13 07 38.8	
(5)	iP	NEZ	18 36 36.7	110
	iS	N	36 50	
(6)	e(P)	Z	22 15 51	
	i(S)	E	16 02	
10 SEPT				
(1)	e(P)	Z	01 56 50.5	
	iS	E	57 01.5	
(2)	iP	NEZ	02 54 07	13.9 N, 120.8 E (CGS)
	eP	Z'	54 07	
	iS	E'	54 36	
(3)	eP	Z Z'	07 29 06	
	eX	N'	40 47	
	LR	Z'	46 37	
(4)	gx	Z'	10 41 22	
(5)	eP	EZ	11 36 51	

Date	Phase	Comp.	Time (GCT)	Distance (km)	
10 SEPT					
(6)	eP	NEZ	13 09 30	37.4 N, 141.1 E (CGS)	
	i(S)	N	09 49.7		
(7)	eX	Z	15 08 20.5		
(8)	eP	NZ Z'	19 31 33		
	iS	N'E'	36 06.5		
	(IR)	Z'	38 13		
(9)	e(P)	Z	19 48 17		
	i(S)	E	48 33.8		
(10)	iP	NEZ	22 38 50.8		
11 SEPT					
(1)	e(P)	Z	05 26 37.5	4300 3.5 S, 153.7 E (MO)	
	e(S)	N'	30 45		
	LR	Z'	31 42		
(2)	iP	NEZ N'	07 00 20		
		E'Z'			
	iS	N N'E'			
	LQ	N'			
	LR	Z'	11 51		
(3)	iP	NZ	11 48 07.5		360
	iS	NE	48 46		
(4)	eX	Z	15 58 03		
(5)	eP	NEZ	17 24 34		
	(LR)	Z'	25 36		
12 SEPT					
(1)	eX	Z	00 03 05		
(2)	e(P)	Z'	03 20 54		
	LR	Z'	23 37		
(3)	e(P)	Z	06 52 40.4		
(4)	iP	N'Z'	08 47 30.5	6.3 S, 151.6 E (CGS)	
	eP	Z	47 30.5		
	ePP	Z'	49 02		
	iS	N'E'	53 18		
	LQ	N'	56 14		
	LR	Z'	58 57		

Date	Phase	Comp.	Time (GCT)	Distance (km)
12 SEPT				
(5)	eP	Z	10 43 50.5	240
	iS	NE	44 16.4	
(6)	iP	NEZ	11 47 17	250
	iS	E	47 44.5	
(7)	e(P)	Z	16 59 21	
(8)	eX	Z	17 05 19.5	
	LR	Z'	09 38	
(9)	e(P)	Z	21 45 54	
	iS	NE	45 59	
(10)	e(P)	Z	21 59 10.5	
(11)	iP	Z Z'	22 12 00	6.4 S, 70.8 E (CGS)
	iS	NE	19 38	
	LQ	N'	25 04	
	LR	Z'	28 26	
13 SEPT				
(1)	iX	Z	03 20 10.2	
(2)	iP	E	03 24 11.4	
(3)	iP	Z	03 34 48.0	
(4)	iP	E	05 09 31.2	
	iS	NE	05 09 35.4	
(5)	eX	E'	10 04 31.0	
	LR	Z'	10 05 20.0	
(6)	eP	Z'	13 17 04.0	55.5 N, 165.7 E (CGS)
	eS	N'	13 24 24.8	
	e(SS)	E'	13 28 18.0	
	LQ	N'	13 30 24.0	
	LR	Z'	13 34 37.0	
(7)	eP	Z'	16 50 34.0	9900
	eS	E'	17 01 18.0	
	LQ	N'	17 15 11.0	
	LR	Z'	17 19 09.0	
(8)	iX	E	21 33 31.4	
	iP	E	21 33 43.2	

Date	Phase	Comp.	Time (GCT)	Distance (km)
14 SEPT				
(1)	iP iS	N Z'	00 02 00.8 00 04 07.0	1260 6.5 N, 126.35 E Cotobato (MO)
(2)	iP iS	NEZ NE	02 04 48 05 01	110
(3)	iP iS	NEZ E	07 39 54.5 40 31	340
(4)	o(P)	Z	07 44 41	
(5)	iP oP iS	N'Z' NZ E'	08 29 40 29 40 31 46	8.4 N, 126.8 E (CGS)
(6)	iP iS	Z NE	11 41 31.5 41 43.6	100
(7)	o(P) iS	Z NE	17 40 36 40 48	
(8)	o(P)	NEZ	18 25 31	
(9)	o(P) LR	NEZ Z'	21 03 52.5 05 46	
(10)	o(P) oX LR	NEZ N' Z'	21 56 46.5 58 57 22 01 10	
(11)	iP iS	NZ E	22 50 40.5 50 56	130
15 SEPT				
(1)	iP	Z	08 10 02.4	
(2)	iP	Z	10 14 56.0	
(3)	iP iS	Z NE	11 59 21.0 11 59 37.0	140
(4)	iP	NZ	12 34 52.2	
(5)	iP	EZ	15 39 39.0	

Date	Phase	Comp.	Time (GCT)	Distance (km)
15 SEPT				
(6)	iP	N	17 05 15.4	
(7)	iP	N	22 34 04.2	
(8)	iP	NEZ	23 42 34.2	
16 SEPT				
(1)	iP	NEZ	00 49 31	
(2)	iP iS	NEZ NE	06 34 36.7 34 40.8	
(3)	iP iS	NZ E	06 58 00 58 27.8	260
(4)	i(P) o(S)	NEZ E	10 59 24 59 52	
(5)	o(P) iS	NEZ E	12 14 49 15 07	
(6)	oP	NEZ	13 33 08	
(7)	iP iX iS	Z Z' N N'	13 52 45 52 53 54 43	1170 7.1 N, 126.5 E (CGS)
(8)	o(P)	Z	19 31 17	
(9)	oP iS	Z E	20 10 51 11 18.5	250
(10)	o(P)	Z	21 12 22	
(11)	oP iS	Z E	21 38 18 38 30	100
(12)	oP	Z	23 55 01	
17 SEPT				
(1)	iP iS	Z NE	02 06 51.4 02 07 20.6	270 14.5 N, 122.4 E (MO)
(2)	iP	Z	08 30 08.2	

Date	Phase	Comp.	Time (GOT)	Distance (km)
17 SEPT				
(3)	e(PKP) e(SS)	Z' E'	11 33 30.0 11 57 18.0	
(4)	iP	NEZ	13 04 54.6	
(5)	iP	NZ	13 26 36.2	
(6)	iP	Z	14 22 47.4	
(7)	e(P) oS LQ LR	N' N' E' Z'	14 28 06.0 14 33 09.0 14 34 45.0 14 36 14.0	
(8)	iP oS LQ LR	Z E' E' Z'	15 24 12.6 15 28 48.0 15 29 45.0 15 31 29.0	36.3 N, 141.2 E (CGS)
(9)	iP iS LQ LR	Z N N' Z'	16 26 55.0 16 31 29.4 16 33 01.4 16 34 21.0	36.3 N, 141.1 E (CGS)
(10)	iP iS	N E	21 03 07.8 21 03 52.0	420 14 N, 117.8 E China Sea (MO)
(11)	iP	Z	21 16 30.4	
(12)	iP oS e(SS)	Z N' E'	23 03 46.2 23 11 22.0 23 15 11.6	6070
18 SEPT				
(1)	eP iS	Z NE	01 42 15 42 29.5	120 16.5 N, 120.5 E (MO)
(2)	e(P)	Z	04 54 07	
(3)	e(P) oS	Z NE	05 17 30 17 45.5	
(4)	e(P)	NEZ	06 10 42.3	
(5)	iP iS	NEZ E	14 48 37.5 48 39.5	
(6)	iP iS	NEZ NE	16 11 31 11 35	

Date	Phase	Comp.	Time (GCT)	Distance (km)
18 SEPT				
(7)	iP iS	NZ N	20 43 34.5 43 54	170
(8)	eP iS (LR)	Z' N' Z'	20 58 33 21 08 32 24 34	59.5 N, 145.1 W (CGS)
(9)	iP iS	Z' N'	22 05 31. 07 38	8.2 N, 126.8 E (CGS)
(10)	e(P)	Z	22 25 48.5	
(11)	iP	Z	23 35 42	
19 SEPT				
(1)	iP	Z	00 25 47.6	
(2)	iP eP eS LQ LR	Z Z' N' N'E' Z'	01 38 27.0 01 38 27.0 01 48 05.0 01 59 14.0 02 03 14.4	22.1 S, 174.9 W (CGS)
(3)	i(P) i(S)	E N	02 36 56.6 02 37 19.6	
(4)	iP	E	04 17 06.6	
(5)	eX LQ LR	E' N' Z'	04 19 41.0 04 19 58.0 04 20 20.0	
(6)	iP	EZ	07 15 11.4	
(7)	iP i(S)	E N	07 26 11.2 07 26 21.2	
(8)	iP	Z	08 53 22.4	
(9)	eX LR	Z' Z'	08 58 07.0 09 01 09.0	
(10)	iP i(S)	N E	09 28 12.4 09 28 34.6	
(11)	iP iS	Z EZ	11 44 48.4 11 45 13.8	230
(12)	iP	Z	12 17 33.4	

Date	Phase	Comp.	Time (GCT)	Distance (km)
19 SEPT				
(13)	iP	Z	12 32 55.6	
(14)	iP	NZ	13 17 53.2	
	i(S)	N	13 19 23.6	
	LQ	N'E'	13 20 13.0	
	LR	Z'	13 20 29.0	
(15)	iP	Z	14 24 15.0	
(16)	e(P)	N'	14 30 33.0	
	eX	E'	14 41 24.0	
	(LR)	Z'	14 51 07.0	
(17)	iP	Z	16 10 30.0	
(18)	LR	Z'	16 21 52.0	
(19)	iP	Z	16 36 54.4	100
	iS	N	16 37 06.4	
(20)	iP	N	19 19 38.8	
(21)	iP	E	21 22 53.4	
(22)	iP	Z	23 42 54.4	
	iS	NE	23 43 05.6	
20 SEPT				
(1)	iP	Z	03 31 27.0	310
	iS	N	03 32 00.0	
(2)	iP	Z	04 51 43.0	
(3)	iP	E	06 24 39.6	
(4)	iP	Z	08 58 02.4	220
	iS	N	08 58 26.4	
(5)	iP	Z	10 00 05.0	1224
	eS	E'	10 02 08.0	7.66 N, 137.4 E
	LQ	E'	10 03 07.0	(MO)
	LR	Z'	10 03 27.0	
(6)	iP	Z	10 09 42.2	290
	iS	N	10 10 13.2	

Date	Phase	Comp.	Time (GCT)			Distance (km)
20 SEPT						
(7)	iP	Z	10	52	30.0	
	iS	E	10	53	36.8	
(8)	iP	NEZ	11	03	22.8	
	iS	E	11	04	30.6	
	LQ	N'	11	05	24.4	
	LR	Z'	11	05	48.0	
(9)	iP	Z	12	33	43.2	
(10)	iX	N	12	51	06.4	
(11)	iP	Z	17	08	56.6	36.1 N, 141.8 E
	eS	N'	17	13	40.0	(CGS)
	LQ	E'	17	15	13.0	
	LR	Z'	17	16	11.0	
(12)	iP	NZ	17	13	18.8	12.1 N, 125.7 E
	iS	NE	17	14	31.0	(CGS)
(13)	iP	Z	20	23	23.0	270
	iS	N	20	23	51.8	
(14)	iP	Z	23	27	09.8	
	iS	E	23	27	18.2	
21 SEPT						
(1)	eiP	NEZ	01	41	44.5	29.1 N, 128.2 E
	iP	Z'		41	44.5	(CGS)
	iS	N		44	20.5	
(2)	iP	NEZ	06	28	32	60
	iS	N		28	40.1	
(3)	i(S)	N	07	22	38.5	
(4)	iX	N	07	43	31	
(5)	e(P)	Z	10	15	21	
	i(S)	N		16	11	
	ieX	E'		17	16	
(6)	IR	Z'	12	57	57	
(7)	iS	N	14	11	29.2	

Date	Phase	Comp.	Time (GCT)			Distance (km)
21 SEPT						
(8)	i(P)	Z	18	58	17.5	
	i(S)	NE		58	27.5	
(9)	e(P)	Z	19	36	17.5	
(10)	e(P)	E	20	09	38	
22 SEPT						
(1)	iX	NEZ	00	06	09	
(2)	eIP	Z'	04	29	27	20.8 N, 99.3 E (CGS)
	iP	NEZ		29	27	
	iS	N'		33	19	
	LQ	N'E'		34	11	
	(LR)	Z'		36	05	
(3)	eIP	NZ	09	40	21	1.3 S, 134.0 E (CGS)
	iP	N'E'Z'		40	21	
	iPP	Z'		41	09	
	iS	N N'		44	26	
	LQ	N'		45	34	
	(LR)	Z'		46	33	
(4)	iP	NEZ	11	35	37	180
	iS	E		35	57	
(5)	eP	Z Z'	12	53	59	32.5 N, 131.4 E (CGS)
	iS	E'		57	32	
	LQ	E'		58	19	
	LR	Z'		59	47.5	
(6)	e(P)	Z	13	47	42	
	iS	NEZ		48	10	
(7)	eP	NE	17	18	25.2	
(8)	eP	NZ Z'	17	21	07.5	5440
	eS	N'E'		28	08	6.2 S, 164.78 E
	LR	Z'		36	07	(MO)
(9)	iP	NEZ N'	20	09	00.5	5.4 S, 151.5 E (CGS)
	ePP	E'Z'		10	27	
	iS	N'E'Z'		14	45.5	
	(LQ)	N'		17	47	
	LR	Z'		19	44	
(10)	iP	NEZ	21	18	04.5	95

Date	Phase	Comp.	Time (ZCT)	Distance (km)
22 SEPT	iS	E	18 17.2	
(11)	iP	Z Z'	22 13 38.5	36.4 N, 141.3 E (CGS)
	iS	E'	18 09	
	LQ	N'E'	21 28	
	(LR)	Z'	23 30	
(12)	eX	N	22 24 30	
23 SEPT				
(1)	LR	Z'	00 54 09.0	
(2)	iP	Z	05 16 07.8	3400
	e(S)	N'	05 21 06.0	
(3)	iX	E	05 39 13.6	
(4)	iP	Z	07 43 08.2	160
	iS	NE	07 43 26.2	
(5)	iP	Z	09 22 21.0	160
	iS	N	09 22 39.4	
(6)	iP	Z	09 30 52.4	
	eX	Z'	09 31 45.0	
	e(S)	E'	09 36 12.0	
(7)	iP	Z	10 20 13.2	
(8)	iP	Z	13 36 06.8	
(9)	iP	Z	17 26 43.4	100
	iS	E	17 26 55.4	
(10)	iP	NZ	19 09 41.4	
(11)	iP	Z	19 23 51.0	100
	iS	N	19 24 03.2	
(12)	i(P)	Z	19 44 14.4	
(13)	iP	NZ	20 34 42.6	90
	iS	N	20 34 53.8	
(14)	iP	Z	21 40 26.0	

Date	Phase	Camp.	Time (GCT)	Distance (km)
23 SEPT	i(S)	E	21 41 31.6	
24 SEPT	(1) iX	N	01 01 00.2	
	(2) iP	Z	02 24 15.2	33
	iS	N	24 21.4	
	(3) LR	Z'	03 41 24	
	(4) iP	Z	04 21 32	
	(5) iX	NE	07 34 11.6	
	(6) iP	EZ	08 51 43.2	
	(7) iP	Z	10 15 32	140
	iS	NE	15 47.6	
	(8) iP	Z	30 41 36	
	(9) iP	Z	11 30 27.6	
	(10) iP	N	12 16 10	
	(11) iP	NE	15 31 21.6	
	(12) iP	Z	20 43 48.2	
	iX	N'	47 31	
	LR	Z'	51 24	
	(13) iP	E	22 07 28	
	(14) iP	Z	23 58 54.2	13.1 N, 145.3 E
25 SEPT	eS	E'	00 03 28	(CGS)
	LQ	N'	03 47	
	LR	Z'	05 09	
25 SEPT	(1) iP	Z	02 28 42	
	(2) iP	NEZ	02 51 20	105
	iS	NE	51 32.8	15.58 N, 120.05 E
	(3) i(P)	NZ	09 42 57.5	(MO)

Date	Phase	Comp.	Time (GOT)	Distance (km)
25 SEPT	iS	NE	43 24	
(4)	iP	Z	09 57 44.2	
(5)	iP	Z	10 16 09	
(6)	iP	NEZ	12 17 31.7	80
	iS	N	17 42	15.92 N, 121.05 E
(7)	iP	Z	14 43 30	(MO)
	eP	Z'	43 30	39.7 N, 143.2 E
	eS	N'	48 28	(CGS)
	(LR)	Z'	51 14	
(8)	i(P)	Z	14 59 48	
(9)	iP	Z	15 57 04.5	4120
	iS	E'	16 03 00	5 S, 153.08 E
	LR	Z'	08 27	(MO)
(10)	iP	Z Z'	16 57 25.5	12.9 N, 145.3 E
	iS	E'	17 01 57	(CGS)
	(LQ)	E'	03 16	
	LR	Z'	03 43	
(11)	iP	Z	19 15 39	140
	iS	NE	15 55.2	
(12)	iP	Z	19 42 36.5	620
	iS	N	43 40.5	
(13)	iP	NEZ	22 21 34	160
	iS	E	21 51.8	
26 SEPT				
(1)	iP	Z	04 57 52.2	1090
	iS	NE	59 12.5	
	LR	Z'	05 00 01.0	
(2)	iP	NEZ	13 11 12.5	720
	i(S)	E	12 26.5	
	LR	Z'	13 21	
(3)	eP	NZ	19 45 47	
(4)	eP	Z	21 53 13.2	970

Date	Phase	Comp.	Time (GCT)	Distance (km)
26 SEPT	iS	Z N'E'	56 51.5	
27 SEPT	(1) iP	Z	04 01 21	
	(2) iP	Z	05 18 47	
	(3) e(P)	Z'	05 27 32	
	eX	N'	32 36	
	LR	Z'	35 36	
	(4) e(P)	Z'	06 51 23.6	
	(5) iP	NZ	07 18 48	
	(6) iP	NEZ	08 08 38	
	(7) eP	Z	10 10 27	
	(8) e(P)	Z	14 59 11.5	
	(9) iP	NEZ	16 43 57	180
	iS	NE	44 17	
	(10) iP	NEZ	18 09 37	720
	iS	E	10 51	12.55 N, 126.95 E
	(LR)	Z'	11 49	(MO)
	(11) iP	Z	18 38 24.5	20
	iS	NEZ	38 29.8	
	(12) eX	Z'	20 32 11	
	(13) iP	Z	21 01 08.7	210
	iS	N	01 31.3	
	(14) eX	Z'	21 48 40	
28 SEPT	(1) iP	N	06 41 54.6	
	(2) iP	Z	07 52 48.0	
	(3) iP	N	07 57 02.8	

Date	Phase	Comp.	Time (GCT)	Distance (km)
26 SEPT				
(4)	iP	Z	08 06 17.2	
(5)	iP	NE	10 02 44.4	
(6)	iP	N	10 10 10.6	
	i(S)	E	10 10 20.8	
(7)	o(P)	Z	11 12 28.0	
(8)	iP	N	13 03 37.2	
(9)	iP	Z	18 25 38.2	170
	iS	NE	18 25 57.0	
(10)	iP	Z	20 15 24.4	
(11)	iX	NE	20 55 33.2	
(12)	iX	N	21 03 08.4	
(13)	iP	EZ	23 10 20.2	
29 SEPT				
(1)	i(P)	Z	02 09 31	
	i(S)	E	09 43.5	
(2)	o(P)	Z	13 14 12	
(3)	oX	E'	13 16 35	
	oX	N'	17 13	
	(LR)	Z'	17 57	
(4)	iP	NEZ	15 33 40.5	
	iS	NE	33 50	
(5)	iP	NEZ	15 44 08	50
	iS	E	44 25.5	
(6)	o(P)	Z	18 23 09	
	i(S)	E	23 25.8	
(7)	oX	Z'	22 02 13	
	(LR)	Z'	06 48	
30 SEPT				
(1)	iP	Z	02 10 08.6	

Date	Phase	Comp.	Time (GCT)	Distance (km)
30 SEPT				
(2)	i(P)	Z	02 27 10.4	
(3)	iP	Z	07 16 46.4	
(4)	iX	Z	07 17 57.2	
(5)	iX	E	07 41 25.2	
(6)	eX	N'	07 50 33.0	
(7)	iX	N	08 53 38.2	
(8)	e(P)	Z	12 39 18.6	
(9)	i(P)	Z	14 37 38.8	
(10)	iX	EZ	15 43 52.4	
(11)	eX	Z	15 45 23.4	
(12)	iX	Z	15 51 52.4	
(13)	iX	Z	17 34 40.6	
(14)	iP	Z	18 10 09.0	410
	iS	E	18 10 52.0	
(15)	iX	Z	18 23 30.4	
(16)	iX	Z	19 06 30.2	
(17)	i(P)	NE	19 09 30.4	
(18)	iX	N	19 17 09.4	
(19)	iX	NE	19 48 20.4	
(20)	iP	Z	21 37 14.6	
	i(S)	N	21 37 35.0	
(21)	eX	E'	21 39 22.0	
	(LR)	Z'	21 39 32.0	
(22)	e(P)	Z	23 59 47.8	

BAGUIO STATION
QUARTERLY SEISMOLOGICAL BULLETIN

MANILA OBSERVATORY
PHILIPPINES

BAGUIO SEISMIC STATION

Baguio, Philippines

Latitude	16° 24' 39'' N
Longitude	120° 34' 47'' E
Elevation	1507 meters

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 25,000

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

T_0 - 15 secs.

T_g - 100 secs.

Magnification: usually 3,000

Bag. October, 1965

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

1 OCT.

1.	iX	03 39	06.4	E		
2.	iX	05 09	25.0	N		
3.	iP	09 01	48.0	Z	1.4	0.46
	eS	09 09	45.0	E'		
	LQ	16 16	12.0	E'		
	LR	18 18	32.0	Z'		
4.	iX	09 44	02.2	Z		
5.	i(P)	10 05	53.8	Z		
	i(S)	06 06	11.0	NE		
6.	iP	10 27	26.4	Z		
7.	iP	12 16	21.8	NZ		
8.	iP	13 24	16.4	Z		
9.	iP	13 32	09.4	Z		
10.	iP	13 34	02.0	Z	1.1	0.35
	eS	40 40	06.0	N'E'		
	eX	43 43	21.0	E'		
11.	iP	14 01	44.6	Z		
12.	LR	20 21	10.0	Z'		
13.	iX	21 30	07.0	N		
14.	iX	21 32	45.2	N		
15.	iX	21 47	19.4	E		
16.	i(P)	22 12	56.2	N		
	i(S)	13 13	13.4	N		
17.	iP	22 45	26.8	Z		
18.	LR	23 35	47.0	Z'		

2 OCT.

1.	i(P)	02 40	20.0	Z		
	iS	40 40	24.0	NE		
2.	iP	02 47	19.0	NEZ		
	iS	47 47	24.0	N'E'		
3.	iP	02 52	58.5	NEZ	0.5	0.10

Bag. October, 1965

Date	Phaso	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
2 OCT.							
4.	iP	02	54	36.0	NEZ		
	iS		54	40.0	E		
5.	i(P)	03	03	15.0	Z		
	iS		03	22.0	NE		
6.	iP	03	11	57.0	Z	0.5	0.03
	iS		12	02.4	NE		
7.	iP	03	17	17.0	NZ		
	iS		17	22.5	N		
8.	i(P)	03	34	38.5	Z		
	iS		34	42.5	N		
9.	i(P)	04	14	19.0	Z		
	iS		14	23.5	NE		
10.	i(P)	04	47	33.0	Z		
	iS		47	37.5	NE		
11.	iP	05	41	17.0	Z	0.4	0.12
	iS		41	57.5	N,E'		
12.	iP	06	17	48.0	NEZ		
	i(S)		18	03.5	N		
13.	i(P)	08	37	40.0	Z		
14.	(LR)	08	45	22.0	Z'		
15.	iX	09	00	04.0	Z		
16.	i(P)	10	33	18.0	NEZ		
	iS		33	22.5	N		
17.	iX	11	10	02.5	N		
18.	e(P)	12	12	53.0	Z		
19.	iX	12	37	54.0	Z		
20.	oX	12	47	10.0	N'E'		
	(LR)		50	08.0	Z'		
21.	iX	14	20	28.5	Z		
22.	i(P)	17	08	35.5	Z		
23.	iP	19	58	55.0	Z,N'Z'		
	i(S)		59	26.0	N'		
24.	i(P)	21	30	21.5	Z		

Bag. October, 1965

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
3 OCT.					
1.	iX	01 00 10.4	E		
2.	iP iS	01 10 33.8 10 52.6	Z NE		
3.	iX	01 19 08.0	N		
4.	i(P) i(S)	01 58 05.4 58 22.6	Z E		
5.	iX	02 09 10.0	N		
6.	iP iS	02 29 35.8 29 40.8	Z N		
7.	iX	03 06 34.0	N		
8.	iP	05 25 10.2	Z		
9.	LR	05 56 51.0	Z'		
10.	iP	06 15 58.2	Z		
11.	iP	08 06 52.8	Z		
12.	iP	10 06 20.4	Z		
13.	iX	12 39 31.4	NE		
14.	iP	13 21 51.6	NEZ		
15.	eX	13 21 54.0	Z'		
16.	iP iS	14 14 13.6 14 22.0	NE E		
17.	iP iS	14 15 43.0 16 01.4	Z E		
18.	iP	14 34 07.4	Z		
4 OCT.					
1.	e(P) iS	04 35 26.5 35 44.6	Z NE		
2.	iP iS	05 43 13.0 43 17.5	Z NE		
3.	iP	06 42 41.8	NEZ		
4.	iP	07 44 31.3	NEZ		

Bag. October, 1965

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
4 OCT.	iS	44 33.8	NE		
5.	iP	11 22 35.7	Z	0.5	0.06
	iS	23 19.5	N		
6.	iP	14 43 43.5	NEZ		
7.	iX	19 05 03.5	NE		
8.	iP	19 34 02.0	NEZ		
	iS	34 12.6	NE		
9.	e(P)	23 04 26.0	Z		
5 OCT.					
1.	eX	05 40 30.0	Z		
2.	e(P)	08 03 30.0	Z		
3.	e(P)	09 54 25.0	Z		
4.	e(P)	10 10 07.5	Z		
	iS	10 28.0	NE		
5.	iX	14 50 44.0	Z		
6.	iP	15 56 49.5	Z		
	iS	56 54.0	E		
6 OCT.					
1.	iP	02 57 24.0	Z		
2.	LR	20 14 20.0	Z'		
3.	iP	23 23 17.6	Z		
7 OCT.					
1.	e(P)	01 19 13.0	Z	0.6	0.18
2.	eX	01 24 08.5	Z		
3.	iP	03 37 45.0	NEZ		
	iS	39 30.0	E'		
	(LR)	40 28.0	Z'		
4.	e(P)	04 04 06.0	Z		
5.	e(P)	04 19 13.5	Z		
6.	eiP	07 08 52.5	Z		
	iS	08 57.5	NE		

Bag. October, 1965

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
7 OCT.					
7.	iP	08 20 54.4	Z		
8.	e(P)	08 50 34.0	Z		
9.	e(P)	09 29 10.5	Z		
10.	iP	12 00 24.6	Z		
	iS	00 34.0	N		
11.	eP	18 56 30.5	Z		
12.	eP	20 02 03.5	Z		
8 OCT.					
1.	iP	01 14 31.4	Z		
	LQ	17 51.0	N'E'		
2.	iP	01 53 56.6	Z		
3.	eX	02 13 23.0	Z'		
4.	iX	03 08 07.4	E		
5.	iP	03 40 31.0	Z		
6.	eX	03 46 44.0	N'		
	iX	46 58.2	N		
	(LQ)	50 04.0	E'		
	LR	54 35.0	Z'		
7.	iP	04 15 48.4	Z		
8.	iP	05 53 18.4	Z		
9.	iP	06 08 39.0	Z		
10.	iP	06 37 02.0	Z		
11.	iP	07 31 38.8	Z		
12.	i(P)	08 05 55.6	N		
13.	iP	11 28 44.0	Z		
	i(S)	28 52.0	N		
14.	iP	11 57 02.0	Z		
	LR	59 16.0	Z'		
15.	iP	12 46 57.4	Z	0.5	0.03
	iS	47 37.0	N		

Bag. October, 1965

Date	Phase	Time (GMT)		Comp.	T _Z (sec)	A _Z (micron)
8 OCT.						
16.	iP	13	36	47.0	E	
	i(S)		36	51.2	N	
17.	i(P)	14	44	14.0	N	
18.	iP	14	56	05.0	Z	
	iS		56	07.4	E	
19.	iP	15	26	54.0	Z	
20.	eX	15	32	16.0	N'	
	LR		35	30.0	Z'	
21.	iP	16	42	50.4	Z	
22.	iP	17	55	19.0	Z	
	e(S)		56	54.0	N'	
	LR		57	19.0	Z'	
23.	iP	20	06	06.2	NZ	
24.	LR	22	35	38.0	Z'	
9 OCT.						
1.	e(P)	03	21	27.5	Z	
2.	e(P)	03	56	56.5	Z	
3.	e(P)	13	29	18.2	Z	
4.	eX	13	34	32.0	N'E'Z'	
5.	iX	15	49	05.5	N	
6.	e(P)	16	24	07.0	Z	
7.	iX	17	12	47.0	E	
8.	(LR)	18	06	20.0	Z'	
10 OCT.						
1.	iX	02	41	05.0	Z	
2.	i(P)	05	32	52.5	Z	
	iS		32	56.3	NE	
3.	i(P)	10	24	07.0	Z	
	e(S)		26	19.0	E'	
	LR		28	36.0	Z'	
4.	eP	14	12	44.5	Z	

Date	Phase	Time (GMT)		Comp.	T _Z (sec)	A _Z (micron)
10 OCT.						
5.	i(S)	15	19 41.0	NE		
6.	e(P)	17	47 23.0	Z'		
	e(PKP)		48 08.0	Z'		
	e(S)	18	06 20.5	N'		
	LR		26 58.0	Z'		
7.	iP	18	48 08.7	NEZ		
	iS		48 17.0	N'E'		
8.	iP	23	47 21.5	Z		
	iS		47 26.7	NEZ		
11 OCT.						
1.	iP	02	15 53.8	N		
2.	iX	03	43 13.0	NE		
3.	iP	04	54 41.6	Z	1.2	0.07
	eS		56 46.0	Z'		
	LQ		57 18.0	N'E'		
	LR		58 08.4	Z'		
4.	iP	05	20 12.6	NZ		
5.	iX	07	24 27.4	N		
6.	i(P)	08	05 19.6	N		
7.	eX	08	18 35.0	E'		
	LR		23 58.0	Z'		
8.	eX	09	00 28.0	E'		
9.	iP	09	11 20.2	N		
10.	e(P)	10	10 45.0	E'		
11.	iP	12	56 33.6	N		
12.	iX	18	12 14.2	E		
13.	iP	20	08 31.2	NEZ		
14.	iP	23	00 39.0	NZ		
	iS		00 58.6	N		
12 OCT.						
1.	i(P)	04	30 49.0	Z		
	i(S)		31 21.0	E		

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
12 OCT.					
2.	e(P)	04 38 31.0	Z		
3.	iP iS	05 29 29.0 29 48.5	NEZ NEZ	1.0	0.18
4.	eP eS eSS LQ LR	13 52 35.0 14 02 08.0 07 12.0 12 47.0 20 58.0	Z,Z' E' E' N' Z'	1.0	0.07
5.	iP iS	15 00 38.0 00 43.8	NEZ NE		
6.	iP iS	15 42 38.5 42 59.0	NEZ NE		
7.	e(P) i(S)	16 51 56.0 52 32.0	Z E		
8.	eP e(S)	18 59 42.0 19 02 46.0	Z		
9.	e(P)	19 11 27.5	Z		
10.	i(P) i(S)	20 58 20.0 58 24.5	Z N		
11.	iP iS	23 55 58.5 58 41.0	Z E'	0.8	0.17
13 OCT.					
1.	eX	04 28 28.0	N'		
2.	iP iS	11 51 51.5 51 56.5	Z N		
3.	e(P)	12 51 41.0	Z		
4.	iP iS	14 31 09.5 31 14.0	Z NEZ		
5.	eP eS	14 56 50.0 15 05 18.0	ZN'Z' N'		
6.	e(P)	15 23 21.5	Z		
7.	e(P)	15 37 45.0	Z		
8.	e(P)	21 19 54.0	Z		



Bag. October, 1965

Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
13 OCT.							
9.	iP	22	12	48.5	Z		
	iS		13	10.5	E		
14 OCT.							
1.	iP	02	33	04.6	Z	0.8	0.06
	iS		33	22.6	N		
2.	iP	08	07	27.4	Z		
	e(S)		11	40.2	N'		
3.	iP	08	36	29.6	Z		
4.	iX	14	09	23.4	E		
5.	iX	16	25	31.1	E		
6.	iP	17	23	02.4	Z		
15 OCT.							
1.	LR	01	32	35.6	Z'		
2.	iP	07	18	02.8	Z	0.7	0.329
	iS		18	26.5	N		
3.	iP	10	17	52.4	Z		
	iS		18	13.2	E		
4.	LR	14	31	28.4	Z'		
16 OCT.							
1.	iP	08	26	25.2	Z	0.9	0.51
	eX		27	11.0	N' Z'		
	iS		29	15.5	N		
2.	iP	11	12	34.1	Z	0.7	0.309
3.	iP	14	42	30.2	Z	1.1	0.14
4.	iP	20	10	58.2	Z	0.7	0.219
	eS		18	20.4	N'		
	LQ		23	25.4	Z'		
5.	eX	22	35	03.6	E'		
	LR		47	53.6	Z'		



Bag. October, 1965

Date	Phase	Time (GMT)		Comp.	T _Z (sec)	A _Z (micron)	
16 OCT.							
6.	iP	23	35	55.4	Z	0.4	0.20
	i(S)		36	08.0	E		
17 OCT.							
1.	iP	02	01	32.2	Z	0.9	0.66
	eS		07	58.6	N'		
	LQ		11	17.0	E'		
2.	eX	04	16	38.0	Z'		
	eX		26	36.4	Z'		
	LR		29	04.0	Z'		
3.	LR	05	01	46.0	Z'		
4.	iP	13	46	58.0	Z	0.5	0.0309
	iS		47	27.8	E		
5.	iP	14	47	38.1	Z	0.5	0.0206
	iS		48	07.2	N		
6.	iP	17	47	03.1	Z	0.75	0.0406
	iS		47	44.8	E		
7.	LR	17	59	00.0	Z'		
18 OCT.							
1.	iP	02	44	50.0	NZ	1.1	0.52
	iX		45	29.0	Z		
	iX		49	18.0	Z'		
	(LR)		50	14.0	Z'		
2.	iP	02	54	06.0	Z	0.4	0.07
	iS		54	18.0	E		
3.	eiP	10	07	34.0	Z	0.5	0.0516
4.	iX	10	45	37.0	N'		
	(LR)		49	16.0	Z'		
5.	iX	12	52	44.0	Z'		
6.	iP	20	49	49.0	NEZ	0.6	0.09
	iS		50	05.5	NE		

Bag. October, 1965

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
18 OCT.					
7.	iP	21 54 22.0	Z'	0.8	0.30
	i(S)	57 51.0	E'		
8.	iP	23 05 32.7	Z	1.5	0.428
19 OCT.					
1.	iP	04 42 24.6	Z	0.6	0.077
	LR	44 54.0	Z'		
2.	iP	06 20 52.2	Z	0.8	0.088
	iS	21 03.9	N		
3.	iP	14 21 19.8	Z	1.1	0.086
	eS	24 51.0	E'		
	LR	27 08.0	Z'		
4.	eP	20 58 18.6	Z'	2.0	0.60
	eS	21 06 00.0	N' E'		
	LQ	11 37.0	N'		
	LR	14 17.0	Z'		
20 OCT.					
1.	iP	02 46 52.2	Z	0.8	0.034
	i(S)	48 20.5	N		
	LR	49 11.0	N' Z'		
2.	eiP	07 12 45.5	Z	1.0	2.28
	i(S)	13 27.0	E'		
3.	iP	07 17 32.2	Z	0.9	1.10
	i(S)	18 12.4	E'		
	LR	18 21.4	Z'		
4.	iP	07 40 12.6	Z	0.8	0.08
	iS	40 41.2	N		
5.	iP	10 41 06.5	Z	1.0	0.06
	eP	41 24.4	Z'		
	eX	48 29.0	Z'		
6.	eP	11 18 49.3	Z	1.1	0.038
	eX	26 41.0	Z'		
	LR	39 08.0	Z'		

Bag. October, 1965

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
21 OCT.					
1.	eX	00 29	Z'	14.0	
	eX	34	N'E'	51.0	
	(LQ)	52	N'	56.0	
	(LR)	58	Z'	50.0	
2.	eX	07 52	N'E'Z'	09.0	
	LR	55	Z'	30.0	
3.	LR	09 54	Z'	04.0	
4.	iP	14 39	Z	01.0	0.4
	iS	39	N	19.7	0.023
5.	LR	16 20	Z'	42.0	
6.	(LR)	17 55	Z'	40.0	
7.	e(P)	18 58	N'Z'	17.4	
	(LR)	19 02	Z'	52.0	
8.	iP	23 38	Z	08.0	0.5
	iS	38	N	19.2	0.10
22 OCT.					
1.	iP	02 07	Z	37.6	0.7
	eS	11	N'	48.6	0.056
	G	12	N'	42.2	
	LR	13	Z'	33.0	
2.	iP	03 11	Z	21.8	1.0
3.	iP	03 47	Z	57.0	0.4
	iS	48	E	06.9	0.13
4.	iP	11 01	Z	03.2	0.4
	iS	01	N	05.2	0.366
5.	iP	15 58	Z	57.7	0.7
	iS	59	E	19.6	0.36
6.	LR	19 53	Z'	28.0	
7.	LR	20 50	Z'	30.0	
8.	i(P)	21 32	Z	18.2	0.5
	iS	32	N	36.8	0.007

Bag. October, 1965

.....							
Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
.....							
23 OCT.							
1.	iP	06	11	44.7	Z	0.5	0.645
2.	LR	06	33	00.0	Z'		
3.	iP	11	39	25.0	Z	0.5	0.023
	i(S)		39	44.8	E		
4.	LR	09	09	30.0	Z'		
24 OCT.							
1.	eP	04	31	44.0	NEZ	1.0	0.055
2.	i(P)	07	45	02.5	Z	0.6	0.01
3.	i(P)	08	59	35.0	Z	0.4	0.042
4.	iP	14	35	17.0	Z, Z'	0.7	0.069
	e(S)		37	48.5	E'		
	(LR)		38	08.5	Z'		
5.	iP	18	23	10.6	Z, E'	1.0	0.32
	iX		23	15.0	E' Z'		
6.	e(P)	18	29	38.0	N' E' Z'		
	eX		33	17.0	E'		
	(LR)		36	45.5	Z'		
7.	iP	18	52	41.5	NZ	0.7	0.077
	eX		53	22.0	Z'		
8.	iP	19	06	34.5	Z	0.5	0.046
	iS		06	51.2	NE		
	LR		07	06.0	Z'		
9.	iP	20	27	16.0	NZ	0.6	0.167
	i(S)		28	03.0	N' E'		
10.	eP	21	19	58.8	Z	0.6	0.07
25 OCT.							
1.	eiP	00	17	08.5	Z	0.8	0.257
	eP		17	08.5	Z'		
	e(S)		19	14.0	E'		
	LR		20	13.0	Z'		
2.	iX	02	14	54.3	NE		

Bag. October, 1965

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
25 Oct.					
3.	iX	06 55 22.0	NE		
4.	iP	07 12 16.8	NZ	0.4	0.025
	iS	12 36.0	N		
5.	eP	08 48 48.5	Z, Z'	1.4	0.088
	e(S)	57 14.0	N'		
	(LR)	09 08 40.0	Z'		
6.	iP	14 14 10.6	NEZ, N'E'Z'		
	iS	14 26.0	E'		
7.	eX	18 18 10.6	Z'		
	(LR)	27 25.0	Z'		
8.	i(P)	20 04 03.5	Z	0.4	0.02
		04 24.5	E		
9.	iP	20 45 12.0	Z	0.3	0.025
	i(S)	45 31.0	N		
10.	iP	22 40 58.5	NEZ	1.0	1.26
	e(PP)	42 32.0	Z		
	iS	46 14.7	NE, E'		
	LR	48 47.5	Z'		
11.	iP	23 44 39.6	NZ, Z'	1.3	0.22
	iS	47 22.5	E'		
	LR	49 41.0	Z'		
12.	i(P)	23 53 00.0	Z	0.6	0.017
	iS	53 20.5	E		
26 OCT.					
1.	iP	02 05 48.0	NEZ	0.5	0.245
	iS	06 16.0	NE		
2.	i(P)	04 56 54.7	Z	0.6	0.012
	(LR)	05 01 35.0	Z'		
3.	iP	05 50 21.0	NEZ, Z'	1.0	0.048
	i(S)	50 45.3	E		
4.	(LR)	08 51 17.0	Z'		
5.	iP	08 56 03.2	Z	0.4	0.033
	iS	56 32.0	E		

Bag. October, 1965

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

26 OCT.

6.	iP	10 31	49.0	Z	1.0	0.06
7.	(LR)	10 50	32.0	Z'		
8.	iP	12 23	37.8	Z	0.7	0.028
9.	iP	18 59	48.0	Z	0.7	0.025
	i(S)	19 01	03.0	E		
10.	iP	20 29	26.3	Z	0.7	0.077
	iS	29	42.7	N		
11.	iP	20 35	51.5	Z		
	iS	36	13.0	N		
12.	LR	20 44	09.0	Z'		
13.	iP	23 18	24.6	Z, Z'	1.5	0.38
	eS	20	35.0	E'		
	LR	20	48.5	Z'		

27 OCT.

1.	iX	03 55	46.8	Z		
2.	iX	05 12	09.5	Z		
3.	i(P)	10 00	44.5	Z	0.8	0.028
4.	iP	13 45	33.8	NEZ, N' E' Z'		
	iS	45	43.8	N		
5.	iP	14 59	22.0	Z	0.5	0.015
	iS	59	32.8	E		
6.	LR	15 22	21.5	Z'		
7.	iP	15 44	46.0	NZ, N' Z'	1.0	0.50
	eX	47	46.0	E' Z'		

28 OCT.

1.	iP	03 26	22.5	NEZ	0.8	0.197
	i(S)	26	52.5	N		
2.	i(P)	03 58	19.0	Z		
	iS	58	39.7	N		

Bag. October, 1965

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

28 OCT.

3.	eX	05 33	15.5	Z		
4.	eP	05 54	49.0	Z, Z'	1.0	0.072
5.	iX	06 02	26.0	Z		
6.	e(P)	09 02	44.0	N'E'Z'	1.2	0.342
	iS	06	14.0	E'		
	LQ	07	52.0	E'		
	LR	08	27.0	Z'		
7.	iS	10 08	27.0	NEZ		
8.	i(P)	18 21	41.0	Z		
9.	iP	22 25	07.8	Z	0.2	0.20
	iS	25	10.0	NEZ		
10.	i(P)	23 47	45.0	Z		
	iS	48	15.5	EZ		
11.	i(P)	23 57	01.5	Z		
	iS	57	15.0	N		

30 OCT.

1.	eP	07 09	08.9	Z, Z'	1.0	0.052
	ePP	12	15.0	Z'		
	eS	18	50.0	N'		
	eSS	26	48.0	N'		
	LQ	29	15.0	N'		
	LR	31	52.0	Z'		
2.	iP	08 23	40.5	NZ	0.8	0.17
3.	iX	11 17	18.2	Z		
	i(S)	17	36.7	NE		
4.	iP	19 29	02.0	Z	1.0	0.84
5.	iP	19 45	24.0	Z, Z'	1.0	0.26
	eS	53	20.0	N'E'		
	eSS	57	20.0	N'		
	LQ	59	26.0	N'		
	LR	20 02	25.0	Z'		

Bag. October, 1965

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

31 OCT.

1.	(LR)	02 43 09.0	Z'		
2.	iP	02 53 51.5	NEZ	0.8	0.122
	eX	55 36.0	Z'		
	i(S)	55 54.0	E'		
	LR	56 29.0	Z'		
3.	i(P)	03 33 11.5	Z	0.6	0.012
	iS	33 30.5	E		
4.	eX	03 54 53.0	Z		
5.	eX	04 03 28.5	Z'		
6.	iX	04 10 13.0	Z		
7.	i(P)	06 51 17.0	Z	1.0	0.048
8.	i(P)	08 50 09.5	Z		
	iS	50 29.0	NE		
9.	iP	11 45 01.2	Z	1.0	0.14
	iS	45 14.5	E		
10.	iP	12 38 59.3	Z	0.5	0.043
	iS	39 34.0	NE		
11.	eX	15 14 11.5	Z		
12.	(LR)	15 33 35.0	Z'		
13.	iX	16 28 26.0	N		
14.	iP	17 31 35.0	NZ,N'E'Z'	1.0	0.232
	e(PP)	33 22.0	Z'		
	eS	37 36.0	E'		
	LQ	40 45.0	N'E'		
	LR	43 45.0	Z'		
15.	iP	18 17 38.0	Z		
16.	eX	19 40 54.5	Z		

Bag. November, 1965

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

1 NOV.

1.	i(P)	01	44	10.2	Z	0.5	0.046
	iS		44	11.5	N		
2.	i(P)	01	53	51.9	NEZ	0.7	0.116
	iS		55	21.7	E		
3.	eX	09	04	38.0	Z		
4.	iP	10	11	28.9	NZ	0.9	0.26
5.	i(S)	13	19	11.5	N		
6.	eX	14	19	49.5	Z		
7.	eiP	18	13	25.5	Z, Z'	1.0	0.18
	iX		13	32.5	N'		
	eX		16	14.5	Z'		
	(LR)		30	47.0	Z'		
8.	iP	19	04	19.9	NZ	1.0	0.052
	iS		04	52.5	N		

2 NOV.

1.	e(P)	00	59	36.6	Z	1.0	0.068	
2.	e(P)	01	08	08.0	N'E'			
3.	iP	02	01	59.6	Z	1.0	0.22	
	eX		03	30.0	N'			
	(LR)		03	38.0	Z'			
4.	eX	02	11	14.0	N'			
	(LR)		14	09.5	Z'			
5.	iP	03	58	37.0	Z			
6.	iP	05	57	22.0	Z	0.7	0.064	
	iS		57	35.5	E			
7.	i(P)	10	10	19.7	Z			
8.	eX	10	13	30.0	Z'			
9.	eP	15	53	18.0	Z'	1.0	0.12	
	eS		58	19.5	N'			
	LQ		16	01	22.0			N'
	LR		04	08.0	Z'			

Bag. November, 1965

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

2 NOV.

10. iP 20 58 46.8 Z
 iS 58 49.0 NEZ

3 NOV.

1. iP 01 58 03.8 Z, Z' 1.5 0.76
 e(PP) 02 01 09.0 Z'
 e(PPP) 03 06.0 Z'
 iS 08 44.5 N' E'
 (LQ) 22 50.0 E'
 (LR) 26 48.0 Z'

2. eX 04 13 26.5 Z

3. i(P) 07 14 32.0 Z

4. e(P) 07 39 33.0 Z 1.0 0.04

5. eX 07 41 27.0 Z'
 (LR) 44 19.5 Z'

6. iP 16 45 25.0 Z, Z' 1.0 2.38
 eS 48 53.0 N
 LR 50 36.0 Z'

7. eX 18 42 10.5 Z'
 eX 59 48.0 N'
 LR 19 20 25.0 Z'

4 NOV.

1. iP 00 38 34.0 NEZ 0.5 0.018
 iS 39 03.9 N

2. eX 01 33 20.0 Z'
 (LR) 36 30.0 Z'

3. i(P) 01 41 49.0 NZ 1.0 0.024
 i(S) 42 11.5 N

4. iP 04 56 06.0 Z 0.8 0.057
 iS 56 33.0 E

5. eX 07 45 40.5 Z'

6. iP 09 17 07.5 Z 0.5 0.025
 i(S) 18 06.2 N

Bag. November, 1965

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

4 NOV.

7.	iP	11	32	03.8	Z	0.6	0.237
	eX		35	11.0	Z'		
	(LR)		37	07.0	Z'		
8.	eX	14	07	25.5	E		
9.	iP	15	41	21.3	Z	0.6	0.125
	iX		42	27.0	E'		
	LR		43	15.0	Z'		
10.	iX	16	11	23.5	N		
11.	iP	16	23	34.0	NEZ	0.7	0.051
	LR		25	29.0	Z'		
12.	i(P)	17	01	57.0	NZ	0.5	0.015
	LR		03	51.5	Z'		
13.	iP	17	40	11.7	NEZ	0.4	0.066
	iS		40	14.0	NE		
14.	iX	19	47	18.5	Z		
	iS		47	21.0	N		
15.	iX	21	56	41.5	NE		

5 NOV.

1.	iP	00	33	12.8	Z	0.3	0.05
	iS		33	33.5	E		
2.	i(P)	00	43	14.0	Z		
3.	iP	00	52	59.9	Z	0.8	0.50
	iS		53	30.8	N		
	(LR)		53	44.5	Z'		
4.	iP	09	24	05.5	Z	1.0	0.08
	iS		24	11.8	NEZ		
5.	iP	10	54	03.5	Z	0.5	0.046
	iS		54	07.5	E		
6.	eX	14	23	56.0	Z'		
	eX		25	35.0	Z'		

Bag. November, 1965

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

5 NOV.

7.	eP	19 07	12.0	Z, Z'	1.0	0.06
	iS	12	16.0	N'E'		
	LQ	13	53.0	N'		
	LR	15	26.5	Z'		
8.	iP	21 25	31.5	NEZ	0.5	0.245
	iS	25	34.5	NE		
9.	iX	21 29	31.0	Z		
10.	e(P)	22 08	03.0	Z	1.0	0.06
	LR	13	03.0	Z'		

7 NOV.

1.	i(P)	00 56	10.5	Z		
	iS	56	30	N		
2.	i(P)	01 40	34.3	Z	1.0	0.024
	iS	40	47.0	NE		
3.	iP	06 02	18.0	NEZ	0.4	0.10
	iS	02	37.0	N		
4.	iP	15 04	42.1	NEZ	0.9	0.40
5.	iP	16 39	31.0	Z	1.0	0.068
	iS	39	50.5	N		
6.	eX	18 10	03.5	Z		
7.	iP	20 18	50.5	N		
	iS	19	11.2	E		

8 NOV.

1.	i(P)	03 59	42.5	Z	2.0	0.10
2.	iP	06 07	43.7	Z	1.0	0.04
3.	iP	09 27	58.0	Z	0.6	0.112
	iS	28	17.0	NE		
4.	iP	12 32	34.0	Z	0.6	0.020
	iS	32	50.0	NE		
5.	iP	16 26	30.0	Z	0.8	0.031
	iS	26	53.0	E		

Bag. November, 1965

.....							
Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
.....							
8 NOV.							
6.	iP	17	18	04.8	Z	1.0	0.068
	iS		18	24.0	N		
7.	iS	18	01	36.0	E		
8.	iS	19	15	41.0	E		
9 NOV.							
1.	iX	02	30	15.5	N		
2.	i(P)	05	39	51.5	Z		
	iS		40	16.8	E		
3.	iX	06	38	55.0	N		
4.	iP	10	14	03.0	Z	0.6	0.125
	iS		14	22.3	E		
5.	e(S)	11	55	22.0	N'		
	(LR)	12	01	54.0	Z'		
6.	i(P)	16	54	12.8	Z	2.0	0.160
7.	e(P)	17	08	20.0	Z		
8.	iP	17	59	19.0	Z	0.5	0.129
	i(S)		59	35.0	N		
9.	i(P)	18	16	46.5	Z	1.0	0.120
	i(S)		17	16.5	N		
10.	e(P)	18	31	49.0	Z	1.0	0.040
	i(S)		32	19.2	N		
10 NOV.							
1.	i(P)	02	50	56.0	Z		
	iS		51	07.5	NE		
2.	iP	03	24	36.3	Z	0.8	0.314
	iS		24	40.2	NEZ		
3.	eX	04	55	39.0	E'		
4.	iP	07	24	00.5	Z	0.6	0.120
	iS		24	24.0	E		

Bag. November, 1965

.....						
Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)	
.....						
10 NOV.						
5.	i(P)	16 55	E	44.0		
	i(S)	56	N	04.7		
6.	i(P)	17 15	E	15.0		
	iS	15	N	32.5		
7.	iX	20 43	N	32.0		
11 NOV.						
1.	iX	00 51	NEZ	11.8		
2.	iX	01 58	NE	45.0		
3.	LR	02 04	Z'	05.0		
4.	eX	03 09	Z'	55.0		
	eX	14	Z'	11.0		
	eX	19	N'	21.0		
	(LR)	24	Z'	31.0		
5.	LR	05 04	Z'	41.0		
6.	i(P)	05 33	Z	19.1		
	iS	33	NE	43.5		
7.	iP	08 19	Z	26.6	0.9	0.126
	iS	19	N	44.0		
8.	iX	10 27	Z	27.0		
9.	eX	17 20	E'	11.0		
	eX	26	Z'	21.0		
	(LR)	33	Z'	47.0		
10.	eP	18 05	Z	13.0	1.0	0.048
11.	iP	20 50	NEZ	35.8	0.8	0.034
	iS	50	E	49.2		
12.	eX	23 27	Z'	31.0		
	LR	31	Z'	13.0		

Bag. November, 1965

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

12 NOV.

1.	iP	00 04	53.0	Z	1.0	0.080
	iS	05	14.0	NE		
2.	iX	01 03	34.5	N		
3.	LR	03 03	30.0	Z'		
4.	iP	03 20	40.5	Z	0.8	0.0773
5.	iP	03 32	35.5	Z	0.5	0.090
	iS	34	28.0	E'		
6.	iP	03 55	03.5	Z	1.0	0.140
7.	iP	07 04	00.0	E		
8.	iX	09 56	24.0	E		
9.	iX	12 17	29.0	NE		
10.	iP	17 19	18.0	Z,Z'	1.0	0.120
	iS	23	32.0	N'E'		
11.	iP	17 57	25.7	Z,Z'	1.1	1.012
	iS	18 01	50.8	E		
12.	iP	20 44	27.0	Z		
	iS	44	46.5	NE		

13 NOV.

1.	iX	02 30	56.5	NE		
2.	iP	04 41	17.5	NEZ,N'E'Z'	1.1	1.204
	i(PP)	42	50.0	Z'		
	iS	47	13.0	N'E'		
	LQ	50	04.0	N'		
	LR	52	38.0	Z'		
3.	iX	06 23	37.9	Z		
4.	iP	07 16	09.5	Z	1.0	0.080
5.	i(P)	09 28	37.0	Z	1.0	0.040

Bag. November, 1965

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

13 NOV.

6.	iP	11	57	09.0	Z	0.8	0.071
	iS		57	39.0	E		
7.	eX	14	50	04.5	Z'		
8.	eX	14	54	04.0	E'		
9.	eX	16	53	34.0	Z'		
10.	e(P)	18	19	42.0	Z'		
11.	LR	19	17	44.0	Z'		
12.	iP	19	58	36.0	Z	0.5	0.825
	iS		58	48.5	E		
13.	iP	20	56	24.5	NEZ	0.3	0.050
	iS		56	28.0	NEZ		
14.	iP	21	01	01.0	NEZ		
	iS		01	14.0	NE		
15.	iP	23	11	06.0	Z	0.3	0.225
	iS		11	26.5	E		

14 NOV.

1.	iP	02	58	10.0	Z	1.0	0.020
	i(S)		58	30.1	N		
2.	eX	04	18	53.0	Z'		
3.	eP	05	59	49.5	Z	1.0	0.120
	e(S)	06	04	53.0	N'		
	LR	07	05.0	Z'			
4.	iP	09	43	07.2	Z	0.6	0.062
	iS		43	52.5	N		
5.	eX	12	27	02.0	Z		
6.	iP	13	20	37.0	Z	0.5	0.077
	LR		21	38.0	Z'		

Bag. November, 1965

.....							
Date	: Phase	:	Time (GMT)		:	Comp.	: T _Z (sec) : A _Z (micron)
.....							
14 NOV.							
7.	eP		13	27		Z	1.0 0.040
	eS			27		E	
8.	i(P)		13	53		Z	0.6 0.037
	iS			54		E	
9.	eX		14	34		Z	
10.	iP		15	57		Z	1.0 0.116
11.	iP		16	04		Z	0.8 0.157
12.	eX		16	12		Z	
	eX			13		Z	
13.	eX		16	23		Z'	
	LR			44		Z'	
14.	iP		18	34		Z	1.0 0.120
15.	eX		18	52		Z'	
16.	iP		19	57		Z	1.0 0.112
17.	eX		20	56		Z	
18.	eX		21	13		Z'	
19.	eX		21	29		Z	
15 NOV.							
1.	iP		07	05		NEZ	1.0 0.580
	i(S)			05		N	
	(LR)			06		Z'	
2.	i(P)		07	15		Z	1.0 0.040
3.	iX		07	22		Z	
4.	iP		08	41		NEZ	0.7 0.309
	iS			41		NE	
5.	iX		09	20		NE	

Bag. November, 1965

.....							
Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
.....							
15 NOV.							
6.	e(P)	11	09	20.5	Z'		
	(LR)		11	09.0	Z'		
7.	e(P)	11	40	57.0	Z,E'	2.0	0.300
	eX		53	54.0	Z'		
8.	iX	15	34	23.0	E		
	iX		35	13.5	E		
9.	iP	19	28	15.5	EZ	0.4	0.093
	iS		28	31.2	E		
10.	iX	20	51	56.5	Z		
11.	iX	20	57	19.5	Z'		
12.	iP	21	50	23.5	Z	0.9	0.083
	i(S)		51	32.0	E		
13.	iP	22	23	54.5	Z	0.5	0.025
	iS		24	11.5	E		
14.	(LR)	23	29	17.5	Z'		
16 NOV.							
1.	iP	00	49	48.3	Z	1.0	0.040
	iS		50	09.3	NE		
2.	iP	01	12	13.8	Z	1.0	0.30
3.	eP	06	48	40.0	Z'		
	LR		52	13.0	Z'		
4.	iP	15	13	10.2	NZ	1.0	0.040
5.	eP	15	46	05.5	Z'		
	eX	16	04	22.0	N'		
	(LR)	29	28.0	Z'			
6.	iP	17	08	00.0	Z,Z'	1.0	0.800
	iS		09	54.0	N'		
	(LR)		10	28.0	Z'		
7.	iP	21	57	14.0	Z		
	iS		57	21.0	NE		

Bag. November, 1965

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

17 NOV.

1.	(LR)	00 29	46.0	Z'		
2.	iP	01 36	31.5	Z	0.5	0.038
	i(S)	37	18.5	E		
3.	(LR)	03 29	38.0	Z'		
4.	i(P)	04 38	07.2	Z		
	eS	38	27.5	E		
5.	i(P)	04 43	30.0	N		
	i(S)	43	50.0	E		
6.	iP	06 57	08.0	Z	0.5	0.020
	iS	57	26.8	N		
7.	iP	07 16	48.0	Z	0.9	0.030
	iS	17	07.5	N		
8.	iP	09 24	54.0	Z	1.0	0.112
9.	iP	09 31	43.2	Z	1.0	0.044
	iS	31	55.5	N		
10.	iX	10 47	31.0	N		
11.	iX	10 52	37.5	NE		
12.	iX	11 47	09.3	N		
13.	i(P)	12 42	39.2	E		
	i(S)	43	10.0	N		
14.	iP	16 22	18.7	Z	1.0	0.120
	eX	23	21.0	N		
	LR	24	04.0	Z'		
15.	iX	19 54	39.0	Z		
16.	iX	21 31	04.0	NZ		
17.	i(P)	22 04	09.8	Z	0.9	0.023
	iS	04	51.0	NE		

Bag. November, 1965

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

18 NOV.

1.	iX	00	01	20.0	Z		
	(LR)		02	57.0	Z'		
2.	iP	01	29	27.5	Z	1.5	0.18
	iS		30	31.0	E		
	LR		31	12.0	Z'		
3.	iS	03	43	34.0	NEZ		
4.	e(P)	07	29	16.5	Z	1.0	0.040
	iS		30	22.2	E		
	LR		31	03.0	Z'		
5.	iX	09	05	37.0	N		
6.	iP	09	21	13.7	Z	0.8	0.157
	iX		21	32.5	N		
7.	iX	10	16	47.5	N		
8.	e(P)	17	22	28.8	Z,Z'	0.6	0.195
	iX		23	07.5	Z		
	i(PPP)		23	19.5	Z'		
	e(S)		26	39.0	N'		
	(LR)		27	40.0	Z'		
9.	iX	17	31	07.3	N		
10.	iP	20	10	48.5	Z,Z'	1.0	0.516
	iS		19	26.0	N'E'		
	LQ		27	21.0	N'		
	(LR)		29	56.0	Z'		
11.	iP	22	06	57.6	Z'	1.0	0.672
	iS		13	57.0	N'E'		
	LQ		18	44.0	N'		
	LR		22	38.0	Z'		

19 NOV.

1.	eX	01	50	12.0	Z'		
2.	iX	03	35	58.0	Z		
3.	LR	03	41	35.0	Z'		
4.	iX	05	23	58.0	E		

Bag. November, 1965

.....							
Date	: Phase	:	Time (GMT)		:	Comp.	: T _Z (sec) : A _Z (micron)
.....							
19 NOV.							
5.	iS		06	02	52.0	NE	
6.	e(P)		07	19	49.0	Z'	1.0
	iS			30	05.0	E'	0.040
	LR			43	47.0	Z'	
7.	LR		09	40	39.5	Z'	
8.	eX		14	35	36.0	Z'	
	LR			36	54.5	Z'	
9.	i(P)		20	17	16.8	E	
	iS			17	19.9	N	
10.	e(P)		21	18	02.0	Z	1.0
							0.032
11.	iP		22	33	08.5	Z, Z'	0.9
	iS			34	43.0	E'	0.650
	LR			35	15.0	Z'	
12.	iX		23	04	53.0	Z'	
20 NOV.							
1.	e(P)		03	59	15.5	Z	1.0
							0.036
2.	LR		04	20	54.0	Z'	
3.	iX		06	35	27.2	E	
4.	eP		07	00	00.0	Z, Z'	2.0
	eX			06	18.0	E'	0.400
	(LR)			08	12.0	Z'	
5.	eX		09	03	27.3	Z	
6.	i(P)		09	05	48.0	Z	0.5
	iS			06	07.5	NE	0.05
7.	eX		09	09	44.0	E'	
	(LR)			17	16.0	Z'	
8.	eP		10	04	03.8	Z	1.1
	e(S)			10	08.0	E'	0.096
	LQ			13	03.0	E'	
	LR			15	48.0	Z'	

Bag. November, 1965

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

20 NOV.

9.	eX	11 54	19.0	E'		
	LR	12 00	21.0	Z'		
10.	eiP	15 10	51.0	Z	1.0	0.380
	i(S)	15 06	06.0	Z'		
	e(PKP)	21 25	25.0	N		
11.	i(P)	16 12	01.5	Z	1.0	0.092
	eX	17 03	03.0	Z'		
	(LR)	21 40	40.0	Z'		
12.	iX	17 31	13.0	Z		
13.	eX	18 11	14.0	E'		
	(LR)	13 36		Z'		
14.	iP	18 36	22.5	Z, Z'	1.0	0.580
	e(S)	38 09	09.0	E'		
	(LR)	39 21	21.0	Z'		
15.	e(P)	20 18	42.0	Z'		
	eX	20 48	48.0	Z'		
16.	iP	20 26	24.0	Z	0.8	0.028
	iS	26 42	42.7	N		
17.	(LR)	20 29	32.0	Z'		
18.	eX	20 56	20.0	E' Z'		
19.	eX	21 10	20.0	E' Z'		
20.	eX	23 00	12.0	E'		

21 NOV.

1.	iS	04 40	39.5	NE		
2.	iX	05 14	18.0	N		
3.	iS	05 34	47.5	N		
4.	iP	10 37	02.5	Z, Z'		
	iS	41 06	06.0	E'		

Bag. November, 1965

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

22 NOV.

1.	iP	00	59	08.8	Z	0.7	0.206
	iS		59	28.0	E		
2.	iP	01	47	04.3	NEZ	0.6	0.200
	iS		47	17.8	N		
3.	iP	03	01	02.0	NZ	0.7	0.064
	iS		01	24.0	N		
4.	i(P)	08	52	44.8	Z	0.9	0.040
	iS		52	25.5	E		
5.	(LR)	15	37	50.0	Z'		
6.	eP	20	35	25.0	Z'		
	eS		43	28.0	E'		
	LQ		50	13.0	E'		
	LR		52	42.0	Z'		

23 NOV.

1.	iS	00	43	32.8	NE		
2.	eiP	01	20	49.0	Z	2.0	4.30
	iS		23	23.0	E'		
3.	i(P)	02	27	41.5	Z	1.0	0.040
4.	iP	02	39	39.5	Z	0.9	0.040
5.	iP	16	36	41.0	Z	2.5	1.09
6.	iP	20	21	36.0	Z	0.7	0.32
	iS		21	59.3	E		
7.	iX	20	41	00.0	N		
8.	iX	22	57	07.5	E		

24 NOV.

1.	iP	01	54	42.9	Z	0.5	0.064
	iS		55	10.0	E		
2.	iX	08	53	51.0	NEZ		
3.	iP	15	12	45.5	Z	1.0	0.160

Bag. November, 1965

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

24 NOV.

4.	iP	15 53	31.1	Z	1.1	0.077
5.	iP	18 23	58.5	Z	0.8	0.105
	iS	24	11.3	E		
6.	iP	20 53	10.8	Z	1.0	0.040

25 NOV.

1.	iX	03 29	23.5	E		
2.	iP	03 44	06.5	Z	0.7	0.0774
3.	i(P)	05 16	38.0	E		
	iS	16	48.2	N		
4.	iX	11 00	25.2	NE		
5.	iP	18 41	22.8	Z	1.0	0.048
6.	iP	22 41	58.8	Z	1.2	0.714
	eS	47	04.2	NE		

26 NOV.

1.	iP	04 02	22.0	Z		
	iS	02	35.9	N		
2.	iS	05 42	17.8	N		
3.	iP	13 06	06.4	Z	0.9	0.070
	i(S)	06	37.0	N		
4.	iP	18 18	37.2	Z	1.2	0.457
	iS	18	54.0	N		

27 NOV.

1.	eP	03 09	20.0	Z, Z'	1.8	0.740
	iS	13	32.0	N'		
	LR	15	16.0	Z'		
2.	iX	03 49	15.0	Z		
3.	LR	03 54	55.0	Z'		
4.	iP	08 47	38.5	Z	0.8	0.04

Bag. November, 1965

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

27 NOV.

5.	eP	12	10	20.5	Z, Z'	2.0	1.000
	i(S)		17	05.0	E'		
	(LQ)		20	42.0	E'		
	LR		24	40.0	Z'		
6.	iX	13	10	24.5	N		
7.	e(P)	15	04	23.0	Z'		
	LR		10	44.0	Z'		
8.	iP	17	19	06.2	Z	0.9	0.116
	iS		19	40.9	E		
9.	iP	18	15	44.5	Z	0.6	0.125
	iS		16	03.5	N		

28 NOV.

1.	iX	00	14	44.0	E			
2.	iP	03	26	27.2	Z			
	e(S)		26	41.5	N			
3.	e(PKP)	04	16	31.0	Z, Z'			
	eX		25	08.0	Z'			
	e(SS)		39	16.5	E'			
	(LQ)		05	00	00.5	E'		
	(LR ₁)		09	09.0	Z'			
	(LR ₂)		37	05.0	Z'			
4.	iP	05	23	36.0	Z	0.8	0.142	
	iS		24	03.5	N			
5.	iP	05	38	24.5	Z	1.0	0.520	
6.	iS	09	00	52.0	E			
7.	iS	09	47	46.0	E			
8.	iP	11	37	25.9	Z			
	iS		37	33.0	E'			
9.	iX	13	17	56.7	Z			
10.	iP	14	06	17.0	Z	0.9	0.033	
	iS		06	36.5	E			

Bag. November, 1965

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
28 NOV.					
11.	eP	19 02 47.3	Z	1.5	0.095
	(LR)	07 26.0	Z'		
12.	iP	19 08 50.1	Z		
	iS	09 03.0	N		
13.	iP	19 53 13.0	Z	0.5	0.064
	iS	53 34.5	E		
14.	iP	21 37 25.2	Z	1.0	0.160
	e(S)	42 39.0	E'		
	LR	45 08.0	Z'		
29 NOV.					
1.	iX	08 46 26.5	Z		
2.	eiP	10 24 10.0	Z	1.0	0.588
	iX	26 42.5	E		
3.	iX	12 50 45.5	E		
4.	iP	13 50 59.5	Z, Z'	1.0	0.880
	eS	54 04.0	E' Z'		
	(LR)	56 49.0	Z'		
5.	iP	14 44 49.2	Z	0.5	0.025
	iS	45 02.0	NE		
6.	iP	14 47 59.0	Z		
	iS	48 18.0	NE		
7.	iX	14 52 43.8	N		
8.	iP	15 28 33.0	Z	1.0	0.020
	i(S)	29 18.0	N		
9.	iX	18 33 28.2	Z		
10.	eX	18 55 28.2	Z'		
11.	iP	22 42 00.5	Z, Z'	0.5	0.03
	iS	42 13.0	NE		

Bag. November, 1965

.....

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
30 NOV.					
1.	eX	01 53 23.0	Z'		
2.	eX	01 57 25.0	Z'		
3.	eX	02 15 14.0	Z'		
4.	eX	02 25 33.0	Z'		
5.	eX	02 30 33.0	Z'		
6.	eX	03 06 49.0	Z'		
7.	eX	03 15 18.0	Z'		
8.	eX	03 22 13.0	Z'		
9.	eX	03 29 43.0	Z'		
10.	eX	04 30 08.0	Z'		
11.	eX	05 10 56.0	Z'		
12.	eX	05 33 37.0	Z'		
13.	eX	05 38 41.0	Z'		
14.	eX	06 18 40.0	Z'		
15.	eX	06 28 31.0	Z'		
16.	i(P)	10 35 01.2	Z	0.8	0.0340
17.	(LR)	10 38 52.0	Z'		
18.	eX	11 28 37.5	Z'		
19.	eX	11 32 46.0	E'		
	LR	34 42.0	Z'		
20.	iP	12 14 06.3	Z	1.0	0.280
21.	iS	12 19 41.5	N		
22.	eX	13 10 34.0	Z'		
23.	iX	13 42 44.7	E		
24.	iP	15 14 03.2	Z	0.4	0.100

Bag. November, 1965

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

30 NOV.

24.	iS	15 14 06.0	NE		
25.	iP	16 09 55.6	Z	0.4	0.05
	iS	09 58.5	NE		
26.	iX	18 25 16.0	Z		
27.	iP	20 31 12.2	Z	0.8	0.04
	i(S)	32 12.0	NE		
28..	eX	20 39 30.0	Z'		

Bag. December, 1965

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
1 DEC.					
1.	iP	00 14 02.0	Z'	0.4	0.12
	iS	14 05.0	NE		
2.	eP	01 53 17.5	Z	1.0	0.04
	iS	54 00.0	N		
3.	eX	05 45 43.0	Z		
4.	iP	08 35 40.2	Z	1.0	0.03
	i(S)	36 02.0	E		
5.	eX	17 40 08.0	Z'		
2 DEC.					
1.	iX	01 18 12.0	Z		
2.	iP	02 18 14.5	NEZ	0.5	0.44
	iS	18 19.0	N		
3.	iS	02 53 13.0	NE		
4.	iP	02 54 49.5	Z	0.7	0.04
	iS	55 06.2	E		
5.	iX	07 49 18.2	N		
6.	iX	08 05 04.5	Z		
7.	iP	09 15 04.3	Z	1.2	0.19
8.	i(P)	20 04 21.0	NZ		
	iS	04 34.5	N		
9.	iX	22 28 32.5	E		
10.	iP	22 51 30.0	NZ	0.8	0.23
	iS	52 03.9	N		
3 DEC.					
1.	(LR)	00 12 10.5	Z'		
2.	iX	00 17 17.5	Z		
3.	eX	05 51 24.0	Z'		
4.	eP	06 56 37.7	Z,Z'	1.0	0.06

Bag. December, 1965

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
3 DEC.					
(cont'd)4.	eS	07 06	E'	16.0	
	eSS	11	E'	09.0	
	LQ	16	E'	54.0	
	LR	20	Z'	32.0	
5.	i(P)	08 43	Z	21.5	
	i(S)	43	Z	43.0	
6.	i(P)	09 39	Z	31.0	
	iS	39	Z	44.5	
7.	iP	14 19	Z	33.0	0.5 0.18
8.	eX	15 40	E'	58.0	
	LQ	48	E'	31.0	
	LR	53	Z'	02.0	
9.	iX	16 43	Z	54.5	
10.	iP	21 05	Z	23.5	0.7 0.25
	eX	17	E'	10.0	
	(LR)	26	Z'	44.0	
11.	eP	21 26	Z	25.0	1.0 0.05
12.	iX	23 52	Z	54.0	
4 DEC.					
1.	eX	02 19	Z'	57.0	
2.	iP	02 22	Z	23.0	0.8 0.04
3.	(LR)	04 04	Z'	56.0	
4.	iP	05 02	NZ	36.0	0.6 0.06
	i(S)	03	N	12.8	
5.	eX	07 51	Z'	56.0	
6.	iX	08 29	Z	48.2	
7.	iP	11 17	Z	19.8	0.6 0.04
	iS	17	NZ	29.1	
8.	iX	12 28	N	25.5	
9.	iX	16 34	Z	30.7	

Bag. December, 1965

.....							
Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)		
.....							
4 DEC.							
10.	iP	18 28 03.5	Z	0.6	0.03		
	iS	28 06.1	N				
11.	iS	19 44 31.5	N				
12.	e(P)	20 59 13.0	NZ				
13.	eX	21 01 11.0	E'				
	(LR)	02 36.0	Z'				
5. DEC.							
1.	eX	06 35 35.0	E'				
	eX	37 57.0	Z'				
2.	eX	09 15 18.0	E'				
	eX	17 08.0	Z'				
3.	iP	16 32 48.9	Z, Z'	0.9	0.32		
	eS	34 10.0	E'				
4.	iP	18 24 18.0	Z, Z'	1.0	0.08		
	iS	31 54.0	E'				
	LQ	37 09.0	E'				
	LR	40 09.0	Z'				
5.	eX	22 07 00.0	Z				
6 DEC.							
1.	iP	04 51 55.8	Z				
	iS	52 10.6	E				
2.	iP	06 56 50.0	Z	1.0	0.06		
	iS	57 15.8	N				
3.	i(P)	08 00 36.0	Z	0.8	0.03		
4.	eX	08 07 29.0	Z'				
5.	iP	09 07 19.0	Z	0.5	0.05		
	iS	07 43.0	E				
6.	e(PcP)	11 55 13.0	Z'				
	e(S)	12 05 06.0	E'				
	e(SS)	12 12.0	E'				
	(LQ)	21 28.0	E'				
	(LR)	26 54.0	Z				

Bag. December, 1965

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

6 DEC.

7.	eX	19 12	58.0	Z		
	eX	19	44.0	E'		
	(LQ)	31	29.0	E'		
	(LR)	38	39.0	Z'		

7 DEC.

1.	iX	04 28	40.0	NE		
2.	i(P)	06 03	58.0	Z	0.5	0.04
	iS	04 04	05.2	NE		
3.	iP	10 19	56.5	Z	0.9	0.04
	iS	20	38.0	E		
4.	iP	13 49	24.0	Z	1.2	0.06
	iS	50	04.5	NE		
5.	i(P)	16 30	12.5	Z	1.5	0.12
	iS	30	14.2	NE		
6.	iP	16 54	53.0	NEZ	0.5	0.26
	i(S)	55	01.5	N		
7.	iP	22 25	50.0	NEZ, Z'	0.8	0.71
	iS	31	06.7	N, E'		
8.	iS	22 32	44.5	NEZ		

8 DEC.

1.	iX	02 42	41.0	N		
2.	iX	05 29	29.5	Z		
3.	iX	06 48	43.8	Z		
4.	iP	15 00	35.8	Z	0.5	0.01
	iS	00	38.3	NE		
5.	iP	18 16	52.0	Z'	1.0	0.40
	iS	26	20.0	E'		
	(LQ)	35	11.0	E'		
	LR	41	51.0	Z'		
6.	iP	18 58	28.5	NZ	0.8	0.14
	iS	58	32.5	NEZ		
7.	iS	20 31	41.2	N		

Bag. December, 1965

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

8 DEC.

8.	iX	22 23	44.0	E		
9.	iP	22 25	16.5	Z	0.5	0.05
	iS	25 26.5		NE		
10.	i(P)	22 55	54.2	Z		

9 DEC.

1.	iP	00 15	47.8	NE	0.5	0.07
	e(S)	16 05.0		N		
2.	iP	06 06	35.0	Z	0.8	0.17
	iS	06 56.8		NE		
3.	i(P)	06 10	57.0	Z	0.9	0.03
	iS	11 00.0		NEZ		
4.	eX	06 26	53.0	Z'		
	eX	28 49.0		E'		
	eX	46 03.0		E'		
	(LR)	07 04	45.0	Z'		
5.	i(P)	12 38	55.0	Z	2.5	0.40
	iS	39 04.0		NEZ		
6.	iP	13 23	00.0	Z	1.0	0.18
7.	e(P)	13 25	07.0	Z'		
	e(S)	32 07.0		E'		
	(LQ)	35 08.5		E'		
	LR	36 23.0		Z'		
8.	eX	13 51	05.0	Z		
9.	iX	14 52	19.0	Z		
10.	iP	16 19	03.5	Z	1.5	0.19
	iS	19 21.5		NE		
11.	iS	16 43	45.8	NE		
12.	i(P)	16 55	36.5	Z	1.8	0.23
	iS	55 48.0		N		
13.	iP	17 08	51.0	Z	1.0	0.08
	iS	09 23.5		NE		
14.	iP	17 43	49.0	Z	0.8	0.11
	iS	44 03.3		NE		

Bag. December, 1965

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

9 DEC.

15. iX 20 32 08.5 Z
 16. eX 20 37 33.0 E'
 (LR) 42 39.5 Z'

10 DEC.

1. iP 06 03 48.0 Z 0.5 0.10
 iS 04 10.0 E
 2. iP 06 06 32.0 NZ 1.0 0.94
 i(S) 07 00.5 E
 3. iP 11 40 46.0 Z 0.8 0.02
 4. iP 22 02 29.5 Z,Z' 1.0 0.67
 eS 10 00.0 E'
 LQ 15 47.0 E'
 LR 18 44.0 Z'

11 DEC.

1. iS 01 15 13.5 E
 2. iX 01 44 17.5 E
 3. iX 02 08 25.2 Z
 4. (LR) 02 19 07.5 Z'
 5. eX 09 55 21.0 Z'
 6. iP 12 24 58.0 Z 1.0 0.08
 7. eX 20 48 44.0 E'
 8. eX 23 15 20.0 Z'

12 DEC.

1. eX 07 50 35.0 Z'
 eX 55 33.0 Z'
 2. iX 17 45 07.9 N
 3. LR 17 46 21.0 Z'
 4. iP 21 11 46.5 Z 1.2 0.09
 iS 12 06.5 E
 5. iP 21 52 32.0 E
 iS 52 56.0 E

Bag. December, 1965

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

13 DEC.

1.	i(P)	03 50	17.0	Z		
2.	eX	03 54	55.0	Z'		
3.	iP	05 52	28.6	Z	1.0	0.50
	iS	52 43.2		E		
4.	eX	06 00	09.0	E'		
	(LR)	05 58.0		Z'		
5.	iP	10 59	21.5	NEZ, Z'	1.0	0.90
	ePP	11 01	27.0	Z'		
	iS	05 09.0		E'		
	LQ	08 07.0		E'		
	(LR)	12 47.0		Z'		
6.	iP	14 53	24.5	NEZ, Z'	1.0	0.38
	ePP	56 03.5		Z'		
	iS	59 13.0		E'		
	LQ	15 02	11.0	E'		
	(LR)	06 50.0		Z'		
7.	iP	17 49	02.5	NEZ		
8.	iP	18 59	27.0	Z	1.0	0.20
	iS	59 39.2		E		
9.	i(P)	22 04	39.0	Z		
	iS	05 01.0		E		
10.	i(P)	22 44	52.5	Z	1.0	0.18
11.	iX	22 53	35.5	Z		
12.	(LR)	22 58	26.0	Z'		
13.	iP	23 00	31.3	Z	1.0	0.11
14.	(LR)	23 14	44.0	Z'		

14 DEC.

1.	iS	00 30	43.5	NE		
2.	iX	02 11	20.0	Z		
3.	i(P)	04 31	04.6	Z		
	iS	31 40.5		N		
4.	iP	04 50	26.0	Z	0.7	0.05
	e(S)	51 26.0		E'		
	(LR)	52 16.0		Z'		

Bag. December, 1965

.....							
Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)		
.....							
14 DEC.							
5.	iX	07 47 02.2	Z				
6.	e(P)	08 51 59.2	Z				
	iS	52 31.0	NE				
7.	e(P)	16 13 09.0	Z	0.5	0.06		
	iS	13 35.0	N				
15 DEC.							
1.	i(P)	01 07 12.5	Z	0.9	0.08		
	iS	07 42.0	E				
2.	eX	03 37 17.0	Z'				
3.	iP	04 49 06.9	Z	0.9	0.13		
	eX	54 12.0	E'				
	(LR)	56 09.0	Z'				
4.	iX	06 44 33.8	Z				
5.	iP	08 26 06.4	Z, Z'	1.0	0.48		
	e(S)	29 13.0	E'				
6.	iP	09 09 58.8	Z	1.0	0.50		
7.	iP	10 29 32.0	Z	1.0	0.10		
8.	iX	10 38 21.5	E'				
	LR	43 09.0	Z'				
9.	iS	12 32 59.0	NEZ				
10.	eX	12 37 55.0	Z'				
	eX	43 21.0	E'				
	LQ	54 33.0	E'				
	LR	13 00 45.0	Z'				
11.	i(P)	14 44 27.0	Z				
	iS	44 51.0	E				
12.	iS	14 51 18.4	NE				
13.	iS	14 51 48.5	NE				
14.	iP	17 32 34.0	Z	0.6	0.06		
	iS	32 43.0	NE				

Bag. December, 1965

.....							
Date	Phase	Time (GMT)			Comp.	T _Z (sec)	A _Z (micron)
.....							
15 DEC.							
15.	iP	17	36	32.5	Z		
16.	iP	23	25	00.0	Z'	1.0	0.38
16 DEC.							
1.	eX (LR)	10	36	48.0	E'		
			40	24.0	Z'		
2.	i(P) iS	20	23	38.0	Z		
			24	14.0	N		
3.	iP iS	20	54	51.8	Z	0.4	0.06
			54	54.0	NE		
17 DEC.							
1.	i(P) iS	00	48	05.8	Z	1.2	0.06
			48	25.8	E		
2.	iS	05	31	48.8	N		
3.	i(P) iS	13	09	12.5	Z	1.8	0.16
			09	32.5	E		
4.	iX	16	15	02.0	N		
18 DEC.							
1.	iP iS	04	15	55.0	Z		
			16	05.8	N		
2.	iP	08	38	00.0	Z	1.0	0.07
3.	iS	12	59	47.9	NE		
4.	iP eX (LR)	13	27	36.9	Z	0.8	0.26
			36	14.0	E'		
			41	09.0	Z'		
5.	iP iS	19	20	40.0	Z	1.5	0.21
			20	58.0	N		
6.	i(P) iS	21	24	15.0	Z		
			24	26.0	N		
19 DEC.							
1.	iP iS	01	57	02.5	Z	0.5	0.08
			57	12.5	NE		
2.	iX	03	37	55.5	N		
3.	iP iS	03	59	42.5	Z		
			59	57.0	N		

Bag. December, 1965

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

19 DEC.

4.	iP i(S)	04 40 31.0 41 21.3	Z N	0.7	0.03
5.	iS	10 37 11.0	N		
6.	i(P) iS	16 41 09.2 41 28.0	NEZ NE		
7.	i(P) iS	16 44 56.8 45 10.8	E N		
8.	iP iS	17 25 27.8 25 43.5	N E,E'	0.9	0.52
9.	iX	19 20 45.0	Z		
10.	iP e(S)	20 06 28.5 06 43.5	NEZ E	0.8	0.11
11.	iP iS LQ LR	22 16 54.5 25 28.5 32 43.0 36 07.0	Z' E' E' Z'	2.5	1.45

20 DEC.

1.	(LR)	01 01 24.0	Z'		
2.	iX	03 13 22.0	N		
3.	iS	05 33 57.1	N		
4.	iX	07 20 46.0	Z		
5.	iX	07 49 22.0	E		
6.	iP	08 28 51.8	Z		
7.	e(P) iS	18 12 32.0 12 45.5	Z N		

21 DEC.

1.	i(P) i(S) (LR)	02 59 42.0 03 01 16.0 01 41.0	Z E' Z'		
2.	iX	07 40 31.0	N		
3.	iX	07 59 19.0	E		
4.	iX	08 51 19.0	Z		

Bag. December, 1965

.....								
Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)			
.....								
21 DEC.								
5.	iX	10 49 29.2	Z					
6.	iX	18 00 45.5	Z					
7.	iP	19 18 24.8	NEZ					
	iS	18 32.2	NEZ					
8.	i(P)	20 18 23.0	Z					
	iS	18 32.5	NE					
9.	iP	20 49 59.0	NEZ					
	i(S)	50 04.0	E					
10.	iX	23 12 44.5	Z					
22 DEC.								
1.	e(P)	00 37 25.0	Z'					
2.	iP	03 00 03.0	NZ		0.8		0.07	
	iS	00 13.0	NE					
3.	iP	07 36 03.0	Z		0.9		0.13	
4.	eX	07 42 55.0	E'					
	eX	47 33.0	E'					
	LR	55 11.0	Z'					
5.	iP	12 31 15.5	Z		1.0		0.04	
	iS	31 25.2	E					
6.	iP	18 12 01.5	Z		0.9		0.17	
	LR	13 29.0	Z'					
7.	iP	19 52 54.0	Z, Z'		0.8		0.43	
	iS	20 02 23.0	NZ, E' Z'					
	eSS	07 49.0	E'					
	L ^o	12 06.0	E'					
	(LR)	20 30.0	Z'					
23 DEC.								
1.	i(P)	03 02 31.0	Z					
	iS	02 51.7	N					
2.	eX	06 25 21.0	Z'					
3.	iP	19 49 32.0	NEZ		0.5		0.05	
	iS	49 39.0	NEZ					
4.	eX	19 59 44.0	Z'					

Bag. December, 1965

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

23 DEC.

5.	eP	20	44	44.5	NEZ		
6.	eS	21	09	44.0	E'		
	eX		15	17.0	E'		
	(LQ)		23	05.0	E'		
	LR		29	21.0	Z'		

24 DEC.

1.	iP	02	31	01.5	Z	0.8	0.59
	iS		31	22.3	E		
2.	iX	08	18	08.5	Z		
3.	iX	08	55	45.0	Z		
4.	i(P)	09	26	46.8	Z		
	i(S)		27	25.3	E		
5.	i(P)	09	32	38.1	Z		
	iS		33	07.0	N		
	(LR)		33	28.0	Z'		
6.	i(P)	10	27	22.0	Z		
7.	iX	11	54	13.0	N		
8.	iS	15	25	20.8	E		
9.	i(P)	15	55	47.0	Z		
	i(S)		56	03.2	E		
10.	i(P)	23	48	05.0	Z		
	iS		48	19.5	N		

25 DEC.

1.	iX	00	42	54.0	Z		
2.	iP	01	09	56.5	Z	1.0	0.16
3.	(LR)	01	13	26.0	Z'		
4.	iP	02	08	54.5	Z	1.0	0.06
5.	iP	03	08	54.5	Z, Z'	1.0	0.58
	iS		16	18.0	E'		
	eX		20	26.0	E'		
6.	iP	06	59	12.5	Z	0.7	0.18
	iS		59	18.8	NE		

Bag. December, 1965

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

25 DEC.

7.	iX	13 58	33.0	Z		
8.	eX	14 12	07.0	Z'		
9.	iP	14 56	52.0	Z		
10.	iP	19 10	37.0	Z	0.8	0.41
11.	iP	19 30	49.0	Z	0.9	0.30
12.	iX	22 58	45.5	Z		
13.	i(P) i(S)	23 31 31	13.0 27.0	Z E		

26 DEC.

1.	iP	03 50	26.6	NEZ		
2.	iP	04 00	20.0	NEZ, E'Z'		
	ePP	01	47.1	Z'		
	iS	06	03.0	NE, E'		
	(LQ)	09	58.0	E'		
	(LR)	11	14.0	Z		
3.	iP	10 59	56.1	Z	0.9	0.30
	iS	11 00	25.2	E		
4.	iP	13 41	41.1	Z		
	iS	42	13.5	E		
5.	iP	14 25	02.3	Z	0.8	0.67
	iS	25	28.7	E		
6.	iX	14 50	16.5	Z		
	iS	50	47.2	E		
7.	iX	18 16	02.3	Z		

27 DEC.

1.	iX	04 13	05.8	Z		
2.	eX	04 19	41.0	E'		
3.	iP	04 28	33.0	Z	0.5	0.22
	iS	28	47.0	N		
4.	eX	07 16	10.0	E'		
	(LR)	16	58.5	Z'		

Bag. December, 1965

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

27 DEC.

5.	iX	10	13	12.3	Z		
	i(S)		13	30.8	E		
6.	eX	11	35	52.5	E'		
7.	eiX	13	37	36.0	Z		
8.	iX	17	53	11.0	E		
9.	iP	20	21	55.5	Z'		
	i(S)		25	13.5	E'		
	(LQ)		25	50.0	E'		
	(LR)		26	27.0	Z'		
10.	iX	22	46	06.0	E		

28 DEC.

1.	LQ	07	15	21.0	E'		
	LR		17	03.0	Z'		
2.	iX	07	24	41.5	E		
3.	eX	07	34	18.5	E'		
4.	i(P)	07	42	17.2	Z	1.2	0.20
	LQ		46	24.0	E'		
	LR		46	59.0	Z'		
5.	iX	08	33	18.5	Z		
6.	eX	08	37	05.5	E'		
7.	i(P)	09	28	16.8	Z		
	iS		28	35.0	NE		
8.	eX	10	41	36.5	Z'		
9.	iP	12	13	54.0	Z'		
	eS		16	44.0	Z'		
	(LR)		18	18.0	Z'		
10.	i(P)	16	13	06.3	Z		
	eX		13	31.0	Z'		
11.	i(P)	16	24	59.0	Z		

Bag. December, 1965

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

Date	Phase	Time (GMT)	Comp.	T _Z (sec)	A _Z (micron)
28 DEC.					
12..	iX	18 47 48.9	E		
13.	iP	20 23 11.8	NEZ.		
	iS	23 32.9	E		
14.	iP	20 37 26.0	Z,E'Z'	0.8	0.23
	eS	41 38.0	E'		
	(LR)	43 35.0	Z'		
15.	eX	20 48 35.0	N		
29 DEC.					
1.	eP	04 22 34.0	Z,Z'	2.0	0.5
	(LR)	30 29.0	Z'		
2.	iX	09 12 44.0	N		
3.	iP	10 23 36.0	NEZ		
4.	eP	15 42 04.0	Z'		
	e(S)	45 33.5	E'		
	(LR)	48 10.0	Z'		
5.	iP	18 47 25.5	Z	0.8	0.14
6.	i(P)	21 18 17.5	Z		
	e(S)	19 13.2	E		
7.	eX	21 25 46.0	N'		
8.	eX	21 44 38.0	N'		
9.	eX	22 04 13.0	N'		
10.	eX	22 47 05.0	N'		
11.	eX	23 49 46.0	Z		
12.	eX	23 52 37.0	N'		
30 DEC.					
1.	eX	00 05 37.0	N'		
2.	iP	02 04 51.5	E		
3.	iP	02 12 02.3	Z	0.8	0.11
	iS	12 19.8	N		

Bag. December, 1965

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

30 DEC.

4.	iP	02 17	31.5	E		
5.	e(P)	02 26	29.0	N'E'Z'		
	eX	34	35.0	N'		
	(LR)	38	16.0	Z'		
6.	iP	05 13	05.5	Z	1.0	0.14
7.	eX	05 53	31.5	N'		
8.	eX	06 27	33.0	E'		
	(LR)	31	37.0	Z'		
9.	eX	07 33	48.0	Z'		

31 DEC.

1.	iP	02 33	24.0	Z		
2.	iP	10 34	13.5	Z	0.7	0.06
	iS	34	33.0	E		
3.	iX	13 32	28.0	N		
4.	iP	14 38	33.8	Z		
	eS	38	54.0	E		
5.	iP	19 49	17.2	Z	2.0	0.60
	i(S)	49	30.0	E		
6.	iX	19 54	07.0	Z'		
7.	iP	21 02	38.0	Z, Z'		
	eS	05	52.0	E'		
	(LQ)	08	30.0	E'		
	(LR)	10	14.0	Z'		
8.	iP	22 14	16.0	Z	1.2	0.10
	iS	14	35.7	E		