140

SPECIAL ISSUE OF
THE SEISMOLOGICAL BULLETIN
OF
WAKAYAMA MICRO-EARTHQUAKE OBSERVATORY
AND ITS SUBSTATIONS

for the period of
temporary co-operative observation,
from August 10 to 25, 1965,
in the Northern Part of Wakayama Prefecture
and its Vicinity, Central Japan

Wakayama Micro-earthquake Observatory,
Earthquake Research Institute, University of Tokyo
Wakaura 685, Wakayama City, Wakayama Prefecture
March, 1966

1966.03.23
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Dear Colleagues:

Wakayama Micro-earthquake Observatory was officially established on 1st April 1964 and began to function as the center office of 12 electronic and 3 mechanical seismograph stations in the Kii Peninsula, Central Japan, which had been operated by the Earthquake Research Institute under the supervision of Prof. S. Miyamura since 1956 for the study of seismicity of the district.

Although Seismological Bulletin of the Observatory for the period from 1965 is scheduled to be published in near future, this special issue was published in advance to meet the need of our colleagues, who participated in the cooperative observation of ultra-micro-earthquake in the northern part of Wakayama Prefecture and its vicinity in August 1965.

It is also hoped to give useful materials by forwarding this issue to the wider seismological circle. The Bulletin includes, of course, not only local earthquake data but also interpretations of teleseisms which may interest you too.

In order to prepare our mailing list for the future distribution of the Bulletin, it is kindly requested to send back the attached receipt below with correct address and your desire for the future sending of the Bulletin.

Prof. S. Miyamura

Earthq. Res. Inst.,
Univ. of Tokyo,
Hongo, Tokyo, Japan.

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Receipt for No. 140 of
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of Wakayama Micro-earthquake Observatory,
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This special issue contains the seismological data which were observed at 12 seismographic stations belonging to the Wakayama Micro-earthquake Observatory during the period of 'Ultra-micro-earthquake Co-operative Observation', which was carried out from 10 to 25, August 1965, in Wakayama Prefecture and its vicinity.

Tables 1-2 and Figures 1-2 give the necessary items of the stations and their instruments.

This bulletin includes following informations interpreted by vertical component seismograms:

1. First recognizable phase (usually P) and its arrival time in J.S.T..
   + : Up, - : Down
2. S-P in sec.
3. Maximum amplitude (vertical component ground velocity; half of peak to trough amplitude) (Am) in μkine or 10^{-6} cm/sec.
   * : Maximum amplitude was observed in P-phase.
4. Total duration (F-P) in sec. If it was not clearly measured due to ground noise or other disturbances, following symbols are used ;

a :	F-P<5 sec	d :	F-P 30 sec~1 min
b :	5~10 sec	e :	1 min~5 min
c :	10~30 sec	f :	>5 min

Staff

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	Mr. T. Kado	et al.	(Shichikawa)
	Mr. H. Teramoto	et al.	(Sarutani)
	Mr. K. Ōnishi		(Haibara)
	Mr. K. Inda	et al.	(Iinan)
	Mr. S. Takeuchi		(Ise)
	Mr. M. Hiraga	et al.	(Gozaisho)

Table 1

Name	Abbr.	Latitude(N) ° ′ ″	Longitude(E) ° ′ ″	Height Km	Foundation
Wakaura	Wk	34 11 16.5	135 10 22.7	0.01	Chrystaline shist
Todoroki	Td	34 09 35.0	135 18 24.8	0.05	Chrystaline shist
Arida	Ar	34 05 09.2	135 09 42.2	0.04	Chrystaline shist
Hidaka	Hd	33 55 33.3	135 08 20.3	0.03	Mesozoic shale
Kainokawa	Kk	33 53 55.5	135 26 30.6	0.26	Mesozoic shale
Shichikawa	Sk	33 35 16.7	135 41 24.8	0.12	Paleogene shale
Sarutani	St	34 10 34.1	135 44 42.0	0.44	Mesozoic shale
Haibara	Hb	34 30 10.0	135 59 36.1	0.39	Granitic rock
Iinan	In	34 26 46.6	136 22 29.2	0.16	River terrace
Ise	Is	34 27 30.6	136 46 26.3	0.44	Surpentine
Gozaisho	Gz	35 00 55.0	136 25 33.5	1.15	Granite
Kinomoto*	Km	34 15 44.4	135 07 30.5	0.02	Cretacous sandstone

* Radio Tele-metering Seismograph(RTS)staion recorded at Wakaura.

Table 2

1 : Seismograph

1) Seismometer or Transducer

Electro-dynamic Moving Coil Type

Sensitivity	2.7Volts per Kine(Kine=cm/sec)
Coil Resistance	1500 Ohms
Damping Shunt Resistance	6600 Ohms h≒0.4

2) Amplifier

C - R 3 Stage Type	with 1:10 stepwise automatic gain control
Maximum Gain	100 ℧
Circuit Noise Level	10 μVolts

2 : Recorder

1) Galvanomater

Inkwriter	V-5 (40 c/s Sanei Sokki Ltd.)
Impedance	3800 Ohms
Sensitivity	1 mm/mA
Max. Deflection	±25 mm

2) Drums

Circumferance	600 mm
Length	630 mm
Paper Speed	4 mm/sec (2mm/sec or 8mm/sec if necessary)
Shifting	1 mm/revolution

3) Moter

AC (100V, 60c/s) Synchronous Moter

Out Put Power	5 watts
Power Consumption	20 V.A.

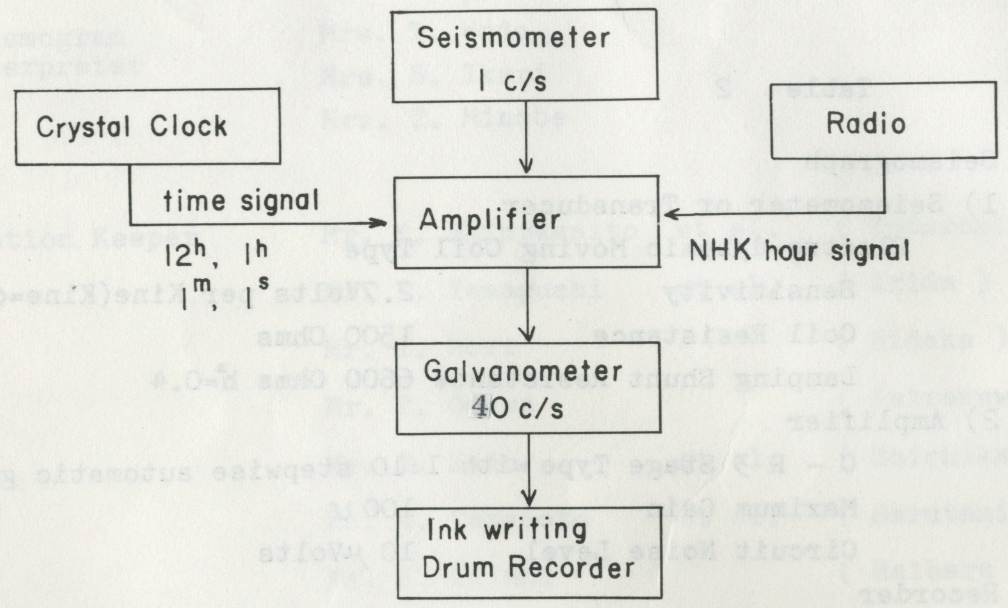
3 : Component

Wakaura is equipped with 3 component and all other stations only with vertical component seismographs.

4 : **Maximum Sensitivity (meter/kine)**

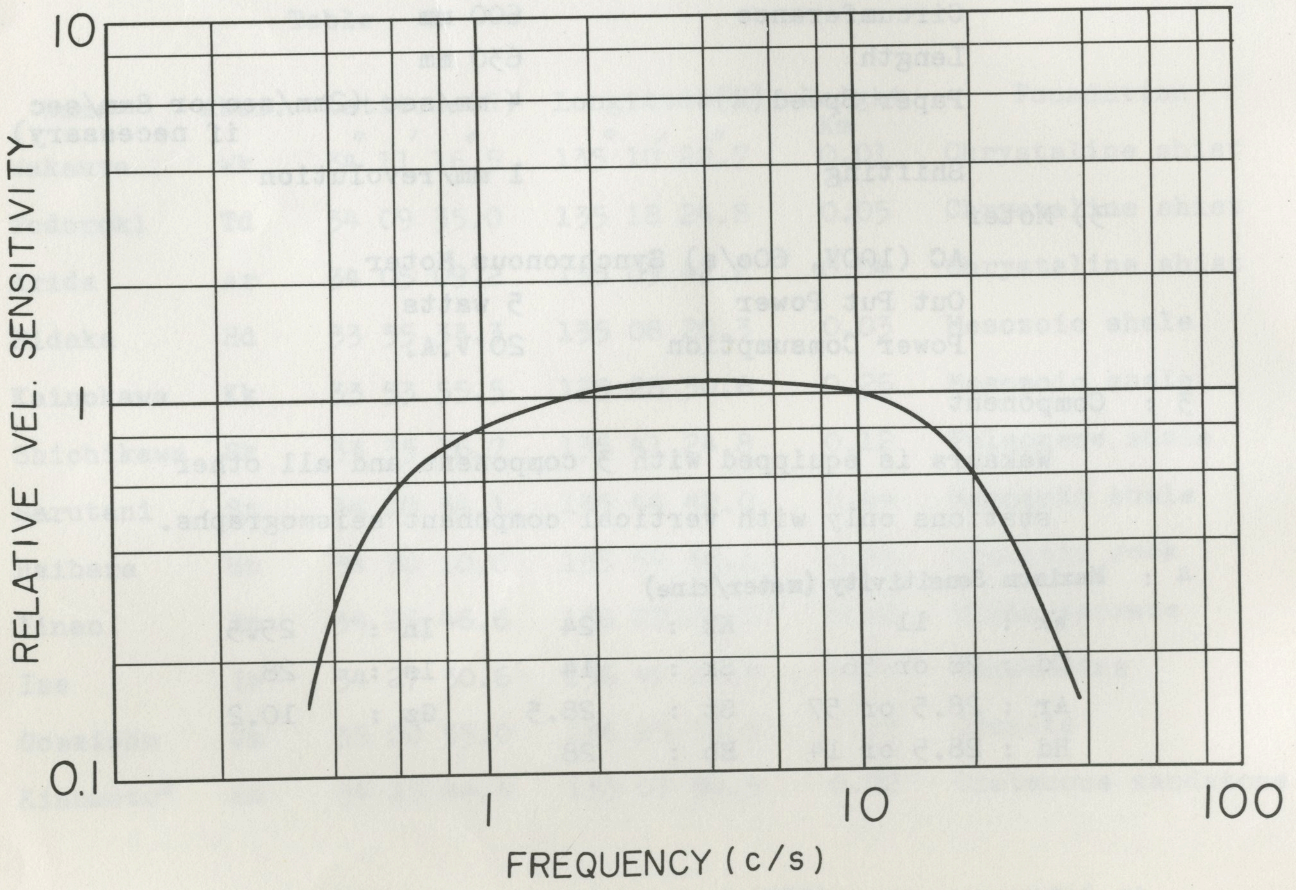
Wk :	11	Kk :	24	In :	25.5
Td :	28 or 56	Sk :	14	Is :	28
Ar :	28.5 or 57	St :	28.5	Gz :	10.2
Hd :	28.5 or 14	Hb :	28		

Fig. 1



BLOCK DIAGRAM

Fig. 2



OVERALL FREQUENCY CHARACTERISTICS

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
August 10					
Km	e	00 41 11.4			17
Hd	+iP	00 42 19.02	5.88	28	15
Ar	-eP	21.06	6.77	14	14
Kk	+iP	21.43	7.65	69	21
Td	+eP	00 54 41.34	1.05	200	4
Wk	e	42.15		55	3
Hd	+eP	01 02 28.37	9.26	12	15
Sk	+eP	01 45 57.55		32	35
Kk	e	59.89		37	58
Ar	e	46 00.81		16	8
St	-eP	02.65		23	42
Hb	eP	05.47		13	45
Is	e	06.91		25	19
Gz	e	11.40		49	16
Km	e	01 53 02.51			22
Sk	-eP	02 34 13.64		19	59
Kk	+eP	18.54	29.95	28	73
Hd	e	19.7		26	18
St	+eP	20.26	30.11	25	81
Hb	eP	21.86		13	80
Ar	+iP	02 35 18.72	0.74	12*	2
Sk	+iP	02 41 36.65	7.89	103	26
St	+iP	36.81	8.05	238	52
Kk	+iP	38.98	9.42	191*	51
Hb	-iP	39.18	9.65	50	22
St	+eP	02 48 17.13	4.22	51	27
Hd	eP	02 51 17.59	10.46	514	85
Ar	-eP	19.56	12.48	260	60
Kk	+iP	19.80	11.90	268	116
Sk	+eP	20.09	12.39	402	88
Wk	eP	21.16	13.31	155	53
Td	+eP	21.54	14.33	145	56
Km	-eP	22.80	14.30		47
St	+eP	24.82	19.78	208	109
Hb	eP	30.11	26.55	47	76
Is	-eP	39.41	31.4	46	65
Ar	+iP	03 00 27.72		145	7
Hd	+eP	03 13 47.64		17	16
Ar	+iP	03 14 45.28	0.80	320*	8
Kk	e	03 14 54.55		8	19
Hd	+eP	03 25 29.62	2.11	26	13
Hd	eP	04 30 06.05	5.65	16	10
Kk	-iP	05 02 09.48	1.72	24	7
Hd	+iP	05 28 17.47	6.30	83	33
Ar	+eP	19.70	7.87	97	24
Kk	+iP	20.50	8.40	83	56
Td	eP	21.88	9.52	18	19
Sk	-iP	23.80	10.47	43	36
St	-eP	26.11	12.87	40	42
Sk	+eP	05 45 56.08	4.53	50	27
Ar	+iP	05 59 55.24	1.55	248	14
Hd	+iP	55.80	1.94	592	39
Td	+iP	56.45	2.43	29*	9
Km	+iP	58.47		*	11
Wk	e	59.37		64	5
St	-eP	06 00 02.01	6.10	106	39
Sk	+eP	04.71	7.47	64	46
Kk	-iP	06 02 27.59	3.08	183	28
Hd	-iP	06 21 30.74	2.73	26	9
Sk	-iP	06 43 52.89	4.68	53	23
Hd	e	07 07 13.01		31	6
Wk	-iP	07 12 53.79	1.16	1655	14
Km	+iP	54.20	1.18		10
Ar	-iP	54.57	1.76	212	18
Td	-iP	55.48	2.64	443	12
Kk	eP	13 00.52	5.16	45	46
St	+iP	02.11	7.84	30	40
Sk	+eP	07.09	10.26	36	32
Td	-iP	07 51 00.46	1.14	27	4
Td	iS	07 55 20.81		119	b

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
August 10					
Hd	-iP	08 04 20.70	0.93	131	6
Kk	eP	24.33	3.16	18	19
Kk	+iP	08 07 45.34	5.71	1121	74
Hd	+iP	45.46	6.29	915	78
Ar	-iP	45.96	6.48	533	43
Td	-iP	46.20	6.51	94	58
Wk	-eP	46.64	6.93	109	30
St	-iP	47.55	7.54	544	68
Km	-iP	47.61	7.53	*	d
Sk	-iP	47.67	7.67	1392*	64
Is	eP	08 00.01	16.49	52	45
Ar	+iP	08 14 49.19	1.20	16*	5
Ar	+eP	08 22 35.52	0.88	30	4
Kk	-iP	08 24 53.81	5.78	380*	38
Hd	-iP	54.32	6.10	168	22
Ar	-eP	54.61	6.55	21	16
Td	-iP	54.94		78	15
St	-iP	56.24	7.33	93	27
Sk	+iP	56.41	7.94	160	28
Is	e	25 13.41		18	54
Hb	+eP	08 32 42.36		14	84
Hd	eP	08 34 57.84		16	4
Kk	-iP	08 46 39.48	5.83	920*	66
Hd	-iP	39.98	6.16	561	42
Ar	-eP	40.36	6.48	64	21
Td	-iP	40.58	6.76	201	18
St	-iP	41.94	7.48	405	46
Sk	-iP	42.09	7.91	559	39
Hb	eP	46.33	10.69	50	46
Is	-eP	54.31	16.6	34	35
Hd	+iP	08 53 09,66	1.32	61	9
Kk	-iP	13.63	3.92	26	16
Wk	eP	09 04 17.45	0.56	150	4
Ar	+eP	17.70	1.28	27	7
Is	eP	09 18 04.51	9.4	14	29
St	+eP	11.55	18.46	12	43
Ar	+iP	09 40 30.67		37	3
Td	e	10 20 32.76		98	3
Hd	-iP	10 57 38.60	0.76	36	6
Wk	+iP	11 07 09.66	0.62	306*	4
Td	eP	11.24	2.29	37	7
Ar	-eP	11 40 55.15	1.28	27	8
Hd	+eP	11 41 34.86	0.83	29	5
Wk	+iP	11 45 54.52	0.81	251	5
Td	-iP	56.00	2.25	39	8
Wk	+iP	12 34 08.70	0.96	762	7
Ar	-eP	09.36	1.31	145	16
Km	+iP	09.68	1.36		9
Td	-iP	10.21	2.65	169	12
Hd	+iP	12.40	3.45	17	21
Kk	eP	14.60	5.15	24	28
Sk	+eP	21.76	10.65	21	29
Ar	+iP	12 40 58.94	0.92	60*	4
Kk	+iP	13 01 51.06		35	10
Ar	-eP	13 06 37.47	1.12	30	4
Wk	-iP	13 22 42.59	1.40	1737	27
Ar	-iP	42.87	1.55	812	40
Km	+iP	43.19	1.53		18
Td	-iP	44.25	2.98	502	48
Hd	+iP	45.57	3.33	93	68
Kk	eP	47.96	6.05	203	65
St	-iP	50.91	9.04	104	48
Sk	-eP	55.38	10.28	93	38
Hb	-eP	56.05	14.08	25	71
Is	+eP	23 08.26	19.19	11	33
Wk	+eP	13 28 07.18	0.76	82	a
Kk	eP	13 36 03.53	6.16	32	15
Is	+eP	13 58 51.61	9.0	21*	19
St	+eP	59 17.06		7	14
Td	-eP	14 04 40.05	1.19	23	4
Hd	+eP	14 09 15.33	1.53	21	8

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
August 10					
Hb	eP	14 34 23.43	2.77	1047	123
In	iP	26.9	5.89	1810	50
Gz	+iP	29.43	7.45	234*	35
St	+iP	29.65	6.87	208	53
Td	+eP	33.41	9.45	180	33
Is	+eP	33.61	9.0	89	37
Ar	+eP	35.85	11.75	48	48
Kk	eP	36.49	11.78	138	55
Hd	eP	38.78	15.0	35	32
Sk	+eP	40.18	15.16	128	47
Td	+iP	14 41 32.27	1.66	50	5
Ar	-eP	32.52	2.25	12	8
Hd	+iP	14 47 27.23	1.26	618	14
Ar	+iP	29.29	2.70	44	8
Kk	-iP	29.84	2.79	365	38
Td	-iP	30.87	3.66	41	8
St	+eP	35.59	7.48	28	18
Sk	+eP	36.15	7.11	21	20
Hd	i	14 55 08.66		28	9
Is	+iP	15 21 43.89	15.11	2880	185
In	+eP	48.6	19.37	542	222
Gz	-iP	49.54	9.20	731	159
Hb	+eP	52.60	27.25	>852	285
St	+eP	56.49	29.24	641	147
Kk	eP	59.96		374	164
Sk	+eP	22 00.22	39.06	182	143
Td	eP	01.60	34.44	288	155
Hd	eP	05.26		578	200
Ar	+eP	05.57		244	100
Wk	-eP	10.55	35.55	219	123
Td	+eP	15 23 42.64	0.55	18	a
Is	-eP	15 29 35.8	15.5	110	73
In	-eP	41.5		57	85
Hb	(eP)	(25.85)		52	116
St	+eP	47.88	33.73	32	94
Sk	+eP	51.87		7	52
Kk	eP	53.62		18	93
Hd	e	30 37.89		35	15
Td	i	15 48 19.43		50	4
Hd	+eP	15 48 28.49	1.47	16	7
Ar	+iP	15 58 42.79	1.01	25	4
Td	-eP	16 02 04.80	1.01	135	5
Kk	eP	16 34 44.81	5.07	20	15
St	+eP	49.28	8.62	25	23
Wk	+iP	16 49 48.16	0.87	82	4
Td	-iP	49.80	2.36	101	7
Td	+iP	16 54 52.93	1.20	151	8
Ar	-eP	17 05 23.75	1.09	30	4
Ar	+iP	17 07 08.49	1.14	37	4
Td	+eP	17 30 22.62	1.51	80	4
Ar	+eP	18 04 32.97	1.17	37	5
Hd	e	18 20 36.67		35	8
Gz	+iP	18 52 11.19	5.93	302	43
In	-eP	20.8	13.67	98	52
Is	eP	21.2	13.9	16	40
Hb	eP	21.36	12.43	41	68
St	+eP	28.03	19.13	42	71
Sk	+eP	36.29		25	21
Wk	+iP	18 58 12.43	0.69	87	3
Ar	-iP	13.30	1.39	51	5
Is	+eP	19 26 28.77	16.20	16	36
In	eP	34.7	18.25	33	53
Ar	-eP	19 29 18.51	0.95	12	3
Ar	+iP	19 39 20.86	0.86	35	4
Is	eP	19 53 15.42		16	56
In	+eP	20.5	29.09	35	106
Hb	eP	24.51		18	95
Td	+iP	20 30 37.61	1.08	53	4
Ar	-eP	20 40 22.01	1.01	39	4
Wk	iS	21 11 58.18		78	3

August 10

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
Ar	-iP	21 26 33.43	0.83	2580	30
Wk	-iP	33.88	1.24	971	16
Td	-iP	35.03	2.71	363	24
Km	-eP	35.10	2.17		15
Hd	+eP	36.09	2.69	69	25
Kk	eP	38.91	4.95	104	48
St	+iP	40.82	8.75	51	30
Sk	-iP	46.19	10.06	103	35
Hb	eP	47.15	13.85	13	28
In	-eP	52.5	14.80	12	30
Is	eP	59.56	18.5	9	26
Wk	i	21 38 37.17		55	3
Td	+iP	21 56 49.07	1.28	37	5
Kk	eP	22 11 02.60		14	94
Sk	+eP	05.57		7	77
Td	eP	07.32	46.92	21	108
Is	e	17.82		14	26
Wk	+iP	22 16 49.99	0.64	59*	2
Td	-iP	51.22	1.93	101	4
Wk	+iP	22 22 16.80	0.79	30870	e
Km	+iP	17.23	3.00		60
Ar	-iP	17.99	1.74	5930	85
Td	-iP	18.45	2.24	>1095	133
Hd	+iP	21.12	3.92	5950	105
Kk	-iP	23.37	5.25	897	148
St	+iP	24.91	8.71	1430	171
Hb	-iP	30.15	14.25	634	148
Sk	+eP	30.40	10.10	1410	94
In	-eP	35.1	15.40	558	136
Gz	eP	39.75	18.49	185	79
Is	+eP	40.42	20.69	281	102
Wk	iS	22 22 39.92		862	c
Td	i	41			
Wk	eS	22 23 01.41		27	a
Wk	e	22 27 16.60		27	3
Wk	+iP	22 42 50.54	0.84	228	5
Wk	e	22 49 26.31		68	4
Wk	e	22 58 39.19		27	3
Wk	eP	23 09 18.69	0.77	128	3
Wk	-iP	23 18 01.42	0.89	1924	13
Km	+iP	01.92	1.08		17
Ar	-iP	02.64	1.74	387	21
Td	-iP	03.08	2.79	240	23
Hd	+iP	05.77	4.25	97	20
Kk	eP	07.97	5.83	37	33
St	-eP	09.70	8.16	21	27
Sk	-eP	15.57	10.73	61	24
Td	eP	23 19 10.58	1.13	141	6
Wk	eS	23 21 08.38		46	3
Hd	+iP	23 33 25.07	1.16	99	5
Kk	-eP	28.13	2.98	77	15
Wk	e	23 44 41.30		23	3
Kk	-iP	23 45 54.94	1.97	35	8
Hd	e	23 53 44.80		19	4
Td	eP	23 58 01.49	1.13	12	4

August 11

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
Td	-eP	00 25 39.71	1.79	54	6
Wk	+iP	00 27 38.49	1.00	59*	4
Ar	+eP	38.93	1.18	19	6
Wk	eS	00 34 28.40		14	a
Ar	+eP	00 50 36.13	0.82	7	4
Hd	e	01 06 54.83		38	4
Hd	e	01 07 11.35		21	3
Hd	-iP	01 16 14.44	2.27	31	7
Wk	-iP	01 19 18.28	0.79	2440	14
Km	+iP	18.71	1.05		17
Ar	-iP	19.49	1.74	419	23
Td	-iP	19.98	2.67	402	26
Hd	+eP	22.70	4.35	40	24

(to be continued)

August 11

(continued)

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
Kk	eP	01 19 24.84	5.82	37	38
St	+eP	26.67	7.21	26	20
Sk	-eP	32.19	10.94	39	26
Hd	+eP	01 56 56.98	5.39	14	10
Hd	-iP	02 02 17.16	5.22	31	10
Ar	+iP	02 10 26.26	0.98	191*	7
Td	-iP	28.22	1.94	20	6
Wk	+iP	02 34 19.69	0.89	2586	13
Km	+iP	20.08	1.38	*	18
Ar	+iP	20.97	1.78	149	23
Td	-iP	21.41	2.15	324	26
Hd	eP	24.03	4.38	87	20
Kk	eP	26.38	5.54	53	39
St	+eP	28.10	7.91	21	21
Sk	+eP	33.87	10.77	46	27
Td	e	02 53 11.57		73	3
Kk	i	03 26 01.70		37	12
Hd	-eP	02.02	6.20	7	12
Sk	-eP	04.47	7.99	11	16
St	+eP	04.53	7.46	7	10
Td	iS	03 39 26.21		48	3
Kk	eP	03 41 15.41	3.18	14	13
Hd	eP	19.03		26	19
Hd	+eP	03 44 53.98	1.67	31	5
Hd	-eP	03 47 55.78	1.11	14	5
Hd	-iP	04 05 14.46	0.67	12800	42
Ar	+iP	16.97	2.73	515	30
Kk	-iP	18.46	3.43	682	53
Td	-iP	18.91	3.89	507	29
Wk	+iP	18.92	3.93	114	19
Km	+iP	20.40	4.43		21
St	-iP	24.16	8.27	326	27
Sk	+eP	24.33	7.63	295	36
In	-eP	35.6	14.60	66	32
Is	-eP	40.50	20.15	11	36
Wk	e	04 20 53.83		9	3
Ar	+iP	04 21 17.11	1.36	205	7
Hd	eP	18.49	1.91	114	14
Td	eP	19.07	1.55	43	8
Wk	e	20.49		14	3
Kk	eP	21.66	3.98	95	22
Td	eP	04 25 01.66	1.60	158	5
Wk	+iP	04 27 19.48	0.85	424	7
Ar	-eP	20.02	1.32	64	10
Km	e	20.40			14
Td	-iP	20.91	2.12	93	12
Hd	+eP	23.09	3.53	10	17
Hd	-iP	04 30 28.30	1.77	21	5
Wk	+eP	04 39 32.45	0.88	14	3
Sk	+eP	04 56 15.57		14	15
Kk	e	19.26		20	26
Is	e	20.03		34	11
St	+eP	20.81		26	18
Hb	-e	22.41		18	30
Td	+iP	05 17 08.52	1.25	52	5
Hd	+iP	05 19 41.35	1.87	69	8
Kk	eP	45.56	4.39	55	15
Wk	+iP	05 39 35.65	0.98	91*	4
Is	eP	05 52 07.5		23	20
St	+eP	05 55 57.80	3.80	12	11
Ar	+eP	06 18 29.15	0.86	80	6
Ar	-eP	06 24 22.35	1.01	9	5
Wk	eP	06 27 53.42	0.98	73	3
St	+eP	06 31 35.65	1.45	39	40
Wk	-eP	06 32 52.24	1.13	27	4
Wk	+iP	06 43 32.30	0.88	132	3
Hd	e	07 01 18.65		35	17
Td	e	24.44		25	27

August 11

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
Sk	+eP	07 20 49.91	3.70	28	9
Hd	-iP	07 25 32.76	1.53	251	11
Kk	-iP	34.63	2.57	89	19
Ar	+iP	35.12	2.29	25*	9
Sk	+eP	40.54	6.70	11	15
St	+eP	07 25 47.86	1.88	21	7
Hd	eP	32.65	2.12	21	13
Td	eP	32.88	2.96	25	8
Hd	+iP	08 31 15.82	0.74	28	4
Is	+eP	09 00 09.27	11.31	34	32
Kk	eP	09 01 43.30	2.71	35	9
Ar	-eP	09 15 30.62	0.99	158	10
Td	eP	09 18 56.7	1.3	62	5
Ar	-eP	09 26 31.11	1.01	32	4
Ar	+iP	09 29 04.22	1.13	110	9
Td	+eP	06.58	2.52	25	10
Is	eP	09 32 26.46		53	125
In	+eP	29.6	36.8	55	153
St	+eP	38.78		16	131
Ar	-iP	09 40 48.81	0.96	212	6
Ar	+eP	10 21 22.77	1.11	64	4
Hd	eP	11 08 59.31	5.14	24	11
St	+eP	11 10 24.74	11.70	28	28
In	-eP	23.3	12.32	197	31
Is	+eP	28.4	15.4	28	38
Sk	+eP	36.26		7	33
Kk	-iP	11 11 42.44	2.36	45	18
Is	eP	11 23 40.8		77	80
Td	-iP	11 34 39.19	0.95	796	16
Wk	-iP	39.41	1.23	1158	8
Ar	-iP	40.29	1.83	273	10
Km	-iP	41.18	1.40		8
Kk	eP	44.36	4.60	16	25
Hd	eP	44.37	3.03	54	14
Kk	eP	11 38 13.68	2.63	140	27
Sk	+iP	13.85	2.98	64	14
Hd	-eP	17.30	5.02	36	15
St	+eP	18.75	6.15	39	27
Hd	-eP	11 45 50.77	2.3	28	6
Kk	-iP	54.84	11.60	16	24
Kk	-eP	11 46 03.96	2.48	16	7
Kk	eP	12 00 46.61	4.13	20	12
Sk	+eP	12 50 42.16		246	121
Kk	eP	43.		164	300
In	eP	43.3		285	192
Is	eP	44.1		148	172
St	+eP	45.33		382	202
Hd	eP	46.07		215	150
Td	eP	47.5	58.1	155	320
Ar	-eP	48.00		149	115
Wk	+eP	49.36		269	167
Gz	eP	50.10		136	176
Km	eP	51.39			100
Ar	+iP	13 11 14.70	0.80	501	8
Sk	-eP	13 25 00.48		32	9
Hd	-iP	13 33 37.94	2.15	29*	9
Kk	-iP	38.05	2.40	124	27
Is	e	13 42 43.9		12	23
St	+eP	55.15		44	19
Sk	+eP	56.19		19	17
Kk	e	58.37		24	7
Ar	+iP	13 47 14.48	0.86	41	3
Kk	-iP	13 56 15.63	2.77	37	13
Wk	+iP	14 03 20.38	0.94	41	5
Kk	+iP	14 21 43.26	2.85	53	21
Ar	+eP	15 56 04.93	1.16	30	4

August 11

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
Hd	+iP	16 15 27.32	1.44	31	5
Ar	-eP	16 23 45.22	1.48	14	5
Wk	iS	16 44 13.69		87	5
Wk	eP	16 47 00.71	1.02	128	5
Km	+iP	01.12	1.12	*	7
Ar	-eP	01.71	2.20	12	9
Kk	+iP	16 59 32.40	7.02	20	19
Ar	-eP	16 59 56.18	1.36	25	5
Kk	eP	17 08 33.66	3.07	12	17
Wk	-iP	17 17 47.15	1.29	347	55
Km	+iP	47.38	1.40	*	10
Ar	-iP	47.91	1.79	149	17
Td	P	(48.9)	(3.0)	91	13
Hd	eP	50.74		28	17
Kk	eP	53.66	5.54	32	34
Kk	eP	17 30 07.18	2.07	14	10
Ar	+eP	17 34 19.12	0.81	46	4
Ar	+iP	17 40 25.48	0.92	34	3
Ar	-eP	17 46 06.73	1.80	14	6
Ar	-iP	17 46 42.55	0.98	>11430	80
Wk	+iP	43.52	1.43	11230	48
Td	-iP	44.44	2.85	>1317	168
Km	+iP	44.85	2.48		72
Hd	+iP	44.99	1.92	1086	105
Kk	-iP	47.88	4.60	865	138
St	-iP	50.95	7.63	671	88
Sk	-iP	54.94	9.14	1196	80
Hb	-eP	56.75	13.82	780	126
In	-iP	47 01.4	14.63	542	108
Is	-eP	06.48	19.50	269	83
Gz	eP	07.05	20.05	107	94
Ar	-iP	17 48 55.67	0.86	57	4
Hd	-iP	17 51 16.02	1.30	536	13
Ar	+iP	18.03	2.65	21	10
Kk	-iP	18.23	2.59	388	31
St	+iP	24.08	7.24	40	22
Sk	-eP	24.68		7	14
Hd	+iP	17 52 45.33	1.31	33	7
Kk	eP	18 19 12.91	2.63	10	15
Ar	+iP	18 35 38.69	0.87	290	7
Ar	+iP	18 36 08.82	0.86	44	3
Wk	+iP	18 51 15.89	1.42	10670	45
Td	+iP	15.91	0.88	1202*	101
Km	-iP	16.64	1.90		35
Ar	+iP	17.17	2.32	5310	36
Hd	-eP	20.14	4.64	204	40
Kk	eP	20.68	4.95	142	59
St	-iP	21.05	6.36	246	39
Hb	-eP	25.98	10.52	68	49
Sk	-eP	27.67	10.47	142	37
In	+iP	31.1	13.65	96	35
Is	-eP	37.59	17.55	25	37
Kk	-iP	19 10 23.79	3.82	57	15
Km	+iP	19 27 08.37	1.05	*	10
Wk	+iP	08.41	1.35	228	6
Ar	-eP	09.59	1.61	21	7
Kk	-iP	19 44 43.92	1.65	73	10
Ar	-iP	19 48 23.09	1.27	549	19
Hd	-iP	24.92	2.56	123	26
Kk	eP	28.35	4.60	85	33
St	-eP	32.74	5.85	25	16
Sk	+eP	35.24	9.70	61	19
Hd	-eP	20 06 56.28	2.41	14	6
Ar	-iP	20 14 08.11	1.13	46	4
Wk	+iP	20 23 28.01	0.83	584	5
Km	-iP	28.75	1.55	*	9
Td	-iP	29.36	1.67	112	13
Sk	+eP	20 24 23.66		39	8
Hd	+eP	20 26 40.86	(8.94)	16	17
Kk	eP	43.18	11.28	37	32

August 11

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
Td	+eP	20 32 48.89	0.97	37	5
Td	+iP	20 48 40.46	2.74	36	20
Ar	+eP	20 49 55.31	1.65	11	4
Sk	-iP	20 53 32.69	3.34	121	12
Kk	-eP	37.99	6.79	32	21
St	+eP	40.59	8.94	28	19
Td	eP	20 59 27.8	1.28	48	5
Hd	+iP	21 01 21.48	1.46	7750	48
Ar	-iP	22.01	1.89	372	37
Td	+iP	23.30	2.76	401	45
Kk	-iP	23.63	2.72	1117*	67
Wk	eS	26.0		78	62
St	+iP	27.75	5.99	326	38
Km	e	27.81			27
Sk	-iP	30.45	7.80	203	32
Hb	(eP)	36.10	(11.45)	52	43
In	(eP)	39.6	13.9	152	40
Is	+eP	44.99	17.58	32	40
Ar	+eP	21 03 19.09	1.30	14	4
Ar	+eP	21 10 16.03	1.12	11	4
Ar	+iP	21 10 20.01	1.31	494	12
Hd	+iP	21.37	2.15	90	22
Wk	eP	21.62	1.99	46	7
Kk	eP	24.68	4.25	89	30
St	+eP	28.86	7.17	12	17
Hd	+iP	21 14 30.54	1.51	45	5
Ar	+eP	21 18 41.88	0.86	14	3
Td	+eP	21 38 45.33	1.32	37	5
Ar	+iP	21 46 10.42	1.01	1805	26
Wk	eP	11.43	1.60	392	12
Td	+iP	12.30	2.42	363	30
Hd	+iP	12.64	(2.36)	69	29
Km	-iP	12.69	2.54		18
Kk	e	15.69			d
Hb	(+eP)	26.35	(11.88)	21	23
Sk	eS	31.69		32	20
Is	eP	35.54		14	32
Sk	+iP	21 46 08.23	4.57	139	23
Kk	+iP	11.52	5.46	126	61
Wk	eP	21 46 25.45	2.18	18	6
Hd	+iP	21 49 21.64	0.71	93	8
Ar	+iP	24.29		48	3
Kk	eP	25.28	3.16	45	23
Ar	+iP	21 55 33.35	0.63	16	3
Ar	-eP	22 00 10.59	0.77	73	4
Wk	+iP	22 08 31.71	1.03	114	4
Ar	+iP	31.87	0.92	44	6
Td	-iP	33.02	1.16	155	7
Wk	eS	22 11 53.23		27	3
Ar	+iP	22 21 49.24	0.78	27	3
Td	+iP	22 22 46.47	1.26	206	b
Wk	eP	46.82	1.52	41	3
Kk	eP	22 55 16.39	2.11	12	6
Ar	+iP	23 03 42.68	0.94	35	6
Td	eP	23 23 39.60	0.77	101	5
Td	+iP	23 25 14.36	1.11	27	4
Td	-iP	23 32 02.13	0.85	463	7
Wk	-eP	02.29	1.22	91	3
Ar	-eP	03.20	1.81	69	5
Td	+eP	23 38 11.80	0.66	25	4
Kk	eP	23 39 04.05	4.55	45	24
Hd	eP	08.76	6.95	14	16
In	eP	19.3		37	8
Sk	+eP	23 41 04.92	3.79	46	13
Kk	eP	23 50 34.13	1.52	45	6

August 12

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
Ar	+iP	00 41 19.27	(0.93)	18	3

August 12

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
Kk	e	00 57 36.16		28	41
Td	+eP	01 02 45.54	1.35	41	5
Td	+iP	01 12 53.49	1.28	16	4
Td	+iP	01 16 57.60	1.59	101	6
Wk	iS	59.11		40	3
Wk	eP	01 26 44.25	0.80	274	a
Ar	+iP	44.87	1.84	16	5
Td	-iP	45.73	2.39	25	8
Wk	iS	01 55 08.26		37	a
Td	+eP	02 00 13.98	1.20	20	4
Hd	eP	02 01 30.79		36	40
Td	+iP	02 02 17.81	1.51	85	5
Ar	-eP	02 26 34.31	1.07	19	4
Wk	eP	02 49 16.53	1.15	74	4
Td	+eP	16.73	1.21	116	5
Wk	+iP	02 50 39.85	1.45	294	9
Km	-eP	40.02	1.45		9
Td	+iP	40.06	1.61	721	8
Ar	+eP	41.35	3.35	27	11
Is	-eP	02 56 11.70	34.84	114	127
In	+eP	15.9		84	120
Gz	eP	17.14		54	153
Hb	+eP	20.92	41.75	106*	129
Sk	+eP	24.54		32	68
Kk	eP	27.22	47.83	32	123
Td	+eP	28.99		12	127
Ar	-iP	03 33 16.04	0.89	28	3
Wk	-eP	03 48 34.98	1.10	117	4
Ar	-eP	03 49 49.90	1.33	32	4
Hd	-iP	04 03 28.12	1.42	59	6
Kk	-eP	30.31	2.71	18	8
Td	+eP	04 05 40.83	1.57	25	4
Hd	+eP	04 07 28.40	1.15	31	5
Td	i	04 23 49.94		21	3
Km	-eP	04 46 15.31	11.10		23
Td	eP	16.33	13.42	100	34
Ar	-eP	18.62	12.51	12	30
Hb	+eP	19.04	13.31	136	46
Hd	eP	21.9		17	30
Gz	(eP)	22.76		34	79
Kk	eP	23.28	16.23	49	23
In	+eP	24.0	17.7	62	37
Wk	eS	28.38		74	14
Is	eP	29.69		25	45
Sk	+eP	30.23		7	33
Sk	+eP	05 02 16.73		93	93
Is	eP	18.24		48	102
In	eP	18.7		94	143
Kk	eP	19.77		49	150
Hd	eP	20.1		97	78
Ar	-eP	21.6		39	42
Hb	eP	21.79		88	157
Td	eP	21.93		45	143
Gz	eP	22.96		39	80
Wk	e	23.21		80	120
Wk	eP	05 06 34.42	0.88	77	6
Sk	-iP	05 08 50.57	4.35	32	15
Sk	-iP	05 19 47.06	7.37	85	18
Kk	-eP	49.19	8.95	32	22
Hd	-eP	49.23	9.12	29	21
Ar	+e	20 01.76		18	8
In	-eP	05 23 47.5		64	112
Kk	eP	47.78		37	98
Is	eP	47.84		28	75
Hb	eP	48.74		68	92
Ar	+e	50.1		30	(19)
Gz	eP	51.27		24	85
Kk	+iP	05 28 15.23	7.35	39	19
Hb	-eP	06 05 05.14		30	65
Td	-iP	06 15 36.53	1.23	265	6

(to be continued)

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
August 12					
(continued)					
Wk	-eP	06 15 36.70	1.01	188	4
Km	-iP	36.83	1.40	*	6
Ar	+iP	06 17 00.17	0.87	115	5
Hd	-iP	06 22 37.07	1.72	17	5
Td	i	06 24 42.46		59	4
Td	+eP	06 36 59.90	1.51	205	4
Td	-eP	06 40 28.74	0.91	160	5
Hd	+eP	07 02 37.55	1.26	28	5
Ar	-eP	07 05 42.65	1.06	42	4
Wk	-iP	07 14 19.64	1.09	86	5
Td	+eP	20.00	1.15	210	5
Kk	-iP	07 21 26.53		67	28
Hd	-eP	28.23	6.11	51	12
Kk	-iP	07 27 10.11	1.52	106	10
Sk	-eP	07 41 38.18		356	208
Is	+eP	39.54		144	225
In	eP	40.3		433	f
Hb	eP	40.75		433	(420)
Ar	+eP	40.76		200	150
Kk	eP	40.81		248	(480)
Hd	eP	42.14		329	104
Wk	eP	42.23		325	240
Td	-eP	43.23		162	300
Gz	eP	44.49		156	255
Km	eP	44.78			180
Kk	eP	08 04 53.97	3.27	35	24
St	-eP	08 08 50.03		32	41
Hb	eP	50.70		13	67
Kk	eP	08 13 58.76	2.74	20	13
Sk	+eP	08 43 57.92		14	45
Hd	-iP	08 44 37.45	2.67	190	17
Ar	-eP	39.74	4.02	39	13
Kk	-iP	41.49	5.41	49*	45
Td	+iP	41.93	5.66	36	16
Sk	+eP	46.68	8.77	21	18
St	-eP	46.84	10.57	21	45
Ar	+eP	08 54 23.53	0.96	18	3
Kk	eP	09 01 24.47	3.38	16	12
Hd	+eP	09 06 50.39	0.71	58	5
Wk	+eP	09 12 06.68	0.86	999	6
Km	+iP	07.15	1.12		9
Ar	+eP	07.81	1.87	51	10
Td	-eP	08.28	2.52	57	12
Ar	-iP	09 23 33.77	1.04	64	5
Ar	-eP	09 28 53.28	1.52	11	5
Ar	-eP	09 38 27.66	0.85	21	4
Ar	+iP	10 05 28.04	1.03	53	4
Ar	+iP	10 16 40.02	1.07	104	6
Hd	+iP	10 19 19.10	0.92	95	7
Kk	-iP	23.03	3.38	28	13
St	+eP	10 24 38.75	3.59	16	21
Is	-eP	10 32 11.27	10.77	4	18
Sk	+eP	10 40 06.37		21	27
Kk	eP	08.58		16	60
Td	e	10.91		16	57
St	+eP	11.57		21	51
Hb	eP	14.77		18	54
In	eP	14.9		23	70
Gz	(eP)	20.27		29	77
Hd	iP	10 53 55.68	1.69	131	17
Kk	-iP	56.59	2.15	601	39
Ar	+iP	57.63	3.09	58'	12
St	-iP	54 02.84	6.29	72	27
Sk	+eP	09.20		4	13
Kk	eP	11 02 16.12		28	(44)
Ar	-iP	11 18 03.65	1.26	60	5

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
August 12					
Ar	-eP	11 21 53.76		11	4
Td	i	11 27 40.41		62	4
Td	+iP	11 31 15.36	0.80	215	6
Ar	-iP	15.91	1.32	37	4
Wk	-iP	11 43 21.89	0.98	96	4
Ar	-eP	22.06	1.18	57	(10)
Td	+iP	23.34	2.21	28	9
Td	+iP	12 21 56.81	1.14	93	4
Hd	+iP	13 07 27.04	1.49	117	7
Kk	-iP	31.05	3.91	49	23
Wk	-iP	13 09 31.99	1.34	242	6
Ar	-iP	32.38	1.63	81	11
Td	-iP	33.68	2.68	57	12
Td	+iP	13 28 35.70	1.53	233	5
Kk	+iP	13 53 25.52	4.86	759	82
Hd	+iP	27.19	6.08	150	23
Sk	+iP	27.20	6.19	271	33
Ar	-eP	27.85	6.56	99	20
Td	-eP	27.70	6.68	166	27
St	-iP	27.90	6.49	804	42
Wk	+eP	28.81	7.02	128	21
Hb	iP	32.73	11.72	34*	31
In	+iP	35.2	12.65	70	30
Is	eP	40.20	15.89	14	33
Kk	iP	14 12 25.28	2.33	39	14
Km	+eP	14 23 17.54	1.17		7
Wk	+iP	18.15	1.16	255	6
Td	-iP	18.80	1.62	415	11
Ar	+eP	19.74	1.98	14	(8)
Is	+eP	15 04 32.60	10.52	20	22
Td	eP	15 24 46.07	1.21	279	5
Ar	+eP	47.80	2.00	7	5
St	-eP	15 46 21.11	5.05	32	47
Kk	eP	22.57	5.99	32	24
Ar	+iP	15 48 34.78		32*	4
Hd	-iP	15 53 58.49	2.29	113	10
Ar	-eP	54 00.55	3.61	11	9
Kk	-iP	02.65	4.63	32	29
Td	eP	16 58 25.42	0.73	135	4
Sk	+eP	17 11 34.53		82	116
St	+eP	37.28		120	190
Is	-eP	37.35		48	112
In	eP	37.4		129	189
Kk	eP	37.88		37	190
Td	eP	38.35		61	196
Ar	+eP	38.8		35	77
Hb	eP	38.85		127	191
Hd	eP	39.38		66	100
Wk	e	41.51		68	147
Km	eP	41.61			180
Gz	eP	41.91		39	168
Ar	+iP	17 23 47.99	0.92	64	7
Hd	eP	50.2	(2.23)	18	8
Sk	+eP	17 47 44.53	3.29	43	11
Hd	e	17 53 09.39		40	10
Hd	+eP	17 58 06.43	5.45	15	11
Kk	e	16.87		41	12
Is	+iP	18 04 22.88	4.46	91	31
In	+iP	27.7	8.23	156	34
Hb	+iP	32.77	12.39	97	31
St	+eP	35.78	13.63	56	31
Kk	eP	40.19	17.85	14	55
Sk	-eP	18 17 00.94	3.33	28	12
Hd	e	18 45 16.64		29	4
Ar	+iP	19 02 29.39	1.36	73	7
Hd	+iP	19 05 31.51	0.83	80	6
Hd	+iP	19 11 39.79	0.77	142	8
Ar	+eP	19 17 05.88	0.69	9	3
Ar	+eP	19 17 22.25	1.21	19	5

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
August 12					
Td	+iP	19 26 12.96	1.18	135	6
Ar	+eP	14.89	2.62	28	7
Hd	eP	19 57 41.74	(0.66)	10	4
Sk	-eP	19 57 58.40	5.34	7	16
Kk	eP	58.47	5.20	43	16
Hd	-eP	59.59	5.98	24	11
Hd	-iP	19 59 56.36	2.81	26	9
Ar	-eP	59.05	3.81	12	9
Kk	-eP	20 00 00.03	5.30	30*	26
Sk	+eP	03.92	9.71	32	16
Hd	iP	20 08 59.52	1.35	218	9
Hd	iP	20 14 19.86	0.91	52	7
Ar	+iP	20 42 34.46	0.88	44	6
Hd	e	20 48 21.21		12	4
Hd	e	20 54 56.26		10	4
Ar	-eP	21 08 37.79	1.01	55*	4
Td	-eP	21 20 48.30	1.14	64	4
Ar	+eP	50.21	2.69	9	6
Wk	+iP	21 44 04.80	0.90	351*	5
Km	+iP	05 75	1.50	*	6
Ar	+eP	05.98	1.51	67	9
Td	-iP	06.28	1.87	68	7
Hd	+eP	09.0	3.97	14	15
Kk	eP	12.27	3.90	4	16
Wk	+iP	21 52 00.41	0.80	128	3
Km	i	01.97			5
Kk	eP	21 56 27.48	1.66	12	6
Ar	+eP	21 56 39.85	1.13	14	3
Wk	+iP	21 56 42.01	0.89	160	4
Ar	-eP	43.09	1.62	23	6
Td	eP	43.55	1.83	14	5
Hd	+iP	22 02 02.52	(0.63)	36	5
Ar	+iP	22 02 05.10	0.99	14	3
Hd	+iP	22 02 23.27	(1.43)	48*	6
Kk	-eP	26.00	3.04	45	13
Sk	+eP	22 04 54.23		328	176
Kk	eP	57.07		166	300
Is	eP	57.1		182	180
Hb	eP	05 00.33		86	272
Hd	eP	01.9		221	74
St	+eP	02.02		130	193
In	eP	06.0		57	185
Gz	(eP)	06.67		107	183
Td	+eP	07.22		69	300
Wk	e	09.66		36	174
Ar	+eP	11.28		42	60
Km	e	13.25			71
Hb	e	22 10 45		38	126
Ar	-iP	22 20 37.27	0.87	133	7
Hd	eP	22 50 44.86		10	6
Is	-eP	23 15 10.3	25.6	28	57
In	eP	15.4		16	60
Hb	eP	19.84	(31.00)	16	78
St	+eP	22.23		32	27
Sk	+eP	24.82		14	15
Td	e	23 15 11.23		16	4
Hd	+iP	23 48 31.01	1.21	48	8
Ar	+eP	31.84	1.56	21	6
August 13					
Ar	+iP	00 25 50.97	1.12	115	5
Ar	+eP	00 52 21.48	1.34	23	4
Td	+iP	01 30 51.05	1.15	71	4
Wk	+iP	01 30 54.55	1.33	274	6
Km	-iP	54.84	1.30		7
Td	-iP	55.04	1.64	370	7
Ar	+iP	56.14	2.34	51	8
Is	eP	01 35 44.46		18	84

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
August 13					
Is	eP	01 38 07.81		25	7
Hd	-eP	01 46 08.86	1.08	93	6
Kk	+eP	11.78	2.84	26	13
Hd	e	02 22 20.29		9	9
Wk	+iP	02 23 22.04	1.09	306*	6
Ar	+iP	22.41	1.35	101	13
Km	+iP	23.13	1.60		7
Td	-eP	23.44	2.07	110	10
Td	e	02 25 14.25		16	3
Sk	+eP	02 34 44.25	9.19	21	31
Ar	+iP	02 42 50.16	0.91	2266	32
Wk	+eP	51.14	1.62	68	c
Td	-eP	52.09	2.72	295	15
Km	-iP	52.58	2.42		12
Hd	+iP	52.63	2.30	192	30
Kk	-iP	55.56	4.52	20	32
St	+eP	58.82	7.38	32	23
Sk	-eP	43 02.58	9.65	43	26
Wk	iS	02 42 59.55		100	4
Is	eP	03 05 03.19	7.13	14	18
Is	eP	03 08 58.5	22.6	27	65
In	+eP	09 03.5	(26.1)	43	62
Hb	eP	08.09	29.52	25	63
St	-eP	10.44		53	21
Sk	-eP	11.98		46	46
Kk	eP	14.47		10	33
Is	eP	03 14 47.17		18	53
In	eP	47.7		31	73
St	+eP	48.17		42	56
Hb	+eP	49.36		16	78
Td	e	50.5		12	39
Ar	+eP	03 37 51.37	0.93	9	3
Ar	+eP	03 44 31.33	0.88	96	3
Hd	-iP	03 55 39.57	2.08	59	13
Ar	+eP	41.52	3.41	21	(9)
Kk	iP	43.67	4.69	35	21
Td	eP	04 03 39.39	1.66	374	5
Wk	eS	40.60		41	3
Km	i	40.79			4
Is	+eP	04 16 59.70	7.4	12	20
Wk	-iP	04 39 28.18	1.50	73	4
Ar	-eP	28.46	1.50	34	(7)
Td	eP	29.87	2.93	14	5
Wk	-eP	04 39 34.05	1.46	87	4
Ar	-eP	34.3	1.5	41	8
Td	eP	35.75	2.90	11	5
Kk	eP	04 39 39.77	2.90	8*	6
Kk	eP	04 39 45.42	3.10	4*	8
Sk	+eP	04 53 13.86		11	13
Td	+iP	05 08 30.64	1.12	78	3
Ar	-iP	31.19	1.36	32	5
Hd	-eP	05 09 38.60	(0.78)	12	4
Td	+eP	05 13 17.17	0.88	27	3
Kk	eP	05 25 08.86	5.51	16	15
Ar	+iP	05 35 18.94	0.95	179	10
Hd	eP	20.65	1.86	38	13
Td	eP	21.34	2.03	11	7
Ar	+iP	05 39 41.17	1.11	25	4
Hd	+iP	06 37 06.95	0.80	104*	5
Hd	-iP	07 39 49.43	1.15	38	6
Td	-eP	08 09 06.06	1.18	388	4
Wk	i	07.01		73	3
Ar	-eP	07.27	1.99	5	5
Td	-iP	08 20 46.02	1.44	189	5
Wk	eS	46.35		32	4
Ar	-iP	08 43 56.53	1.40	609	19
Wk	+iP	57.89	1.97	96	7
Td	eP	58.61	3.31	91	15

(to be continued)

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
August 13					
(continued)					
Kk	-iP	08 44 01.60	4.37	225	35
St	-eP	05.77	7.14	35	25
Sk	-eP	08.65	8.69	57	23
Ar	+eP	08 44 38.51	0.95	25	4
Td	+iP	38.99	1.51	23	b
Td	-iP	08 55 41.27	0.74	61	4
Ar	-eP	10 00 01.90	0.89	30	3
Ar	+eP	10 07 49.34	1.03	18	4
Td	eP	10 15 56.39	1.16	208	4
Kk	-iP	10 18 00.90	2.34	53	24
Ar	+iP	03.11	3.81	5	9
Sk	+eP	06.01	5.70	7	16
St	eS	14.07		28	11
Td	-iP	10 51 11.80	1.31	244	7
Hd	-eP	11 07 50.97	1.91	24	10
Kk	eP	11 15 00.27	2.73	227	38
Sk	+iP	00.45	3.03	135	14
Hd	eP	03.90	5.08	40	12
Kk	eP	11 18 30.		32	94
Hb	eP	37.10		9	83
In	eP	39.9		35	80
Is	eP	41.1		21	57
Hd	e	11 45 42.69		31	7
Ar	+iP	11 46 46.99	1.07	7	3
Td	eP	11 51 48.55	1.23	75	4
Hd	-iP	12 25 31.63	2.31	47	10
Kk	eP	35.78	4.87	16	18
Hd	e	12 39 42.70		38	4
Hd	-iP	12 41 44.73	7.88	114	54
Ar	-eP	45.86	8.61	35	33
Td	eP	48.72	11.06	28	51
Kk	-iP	49.43	11.45	110	82
Sk	+eP	54.28	14.20	78	42
St	+eP	54.90	15.06	69	40
Wk	e	55.04		59	8
Is	+eP	42 09.47	28.2	16	41
Hd	e	13 09 07.75		42	5
Hd	-eP	13 14 05.98	5.21	22	12
Ar	-eP	07.88	6.43	11	14
Sk	+eP	08.35	7.23	36	13
Ar	+iP	13 18 32.21	1.18	7	3
Ar	-eP	13 28 06.12	0.75	11	3
Wk	e	13 48 41.97		46	5
Sk	+eP	13 50 46.34		14	42
Is	eP	48.27		28	55
Hb	eP	49.97		23	88
St	+eP	50.14		35	92
In	eP	50.5		23	68
Hd	(eP)	14 00(08.5	)(5.16)	54	15
Ar	-eP	09.61	5.94	11	12
Sk	-iP	13.95		21	15
Hd	-eP	14 04 31.32	3.08	19	7
Td	i	14 06 19.15		59	3
Td	eP	14 12 24.28	1.27	52	5
Ar	+iP	14 15 23.88	1.56	152	7
Hb	eP	14 30 48.66	8.38	75	42
Ar	+iP	14 31 06.51		32	3
Wk	-iP	14 38 30.18	0.66	985	8
Td	-iP	30.88	1.25	701	13
Km	-iP	31.27	1.52		10
Ar	+iP	31.80	2.12	175	10
Hd	+iP	35.04	5.11	17	17
St	-eP	37.29	5.12	9	19
Sk	-iP	14 42 57.78	3.70	50	14
Is	eP	14 55 52.1		9	31

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
August 13					
Td	+iP	14 59 00.76	1.49	456	6
Hd	+eP	15 16 22.87	2.22	17	8
Wk	-iP	15 27 20.64	0.62	214	4
Td	-iP	21.31	1.25	119	8
Ar	+eP	22.20	2.16	27	5
Hd	-eP	15 33 24.40	1.24	16	5
Ar	+eP	15 36 35.42	0.89	5	3
Wk	+iP	15 58 38.29	1.01	210	3
Ar	+iP	38.88	1.51	73	8
Td	eP	39.9	2.6	25	11
Ar	+iP	16 24 53.22	1.26	11*	3
Hd	eP	16 36 56.46	(1.86)	17	8
Ar	+iP	16 54 50.55	1.50	37	4
Td	eP	51.27	1.79	39	6
Hd	+iP	17 12 16.28	0.87	635	25
Ar	-eP	18.97	2.56	30	8
Kk	-iP	20.27	3.38	156	(30)
Td	-eP	20.77	3.92	27	15
St	-eP	26.01	8.25	42	22
Ar	-iP	17 29 11.58	1.15	101	5
Td	+iP	17 57 34.23	1.03	28	4
Ar	+iP	18 23 03.70	0.87	1020	16
Wk	+iP	04.68	1.48	78	7
Td	eP	05.66	2.31	116	14
Km	+iP	06.00	2.42	*	b
Hd	eP	06.15	2.66	50	14
Kk	eP	09.03	4.58	24	31
Sk	+eP	16.42	(9.16)	7	24
Hd	-iP	18 24 04.22	2.46	149*	18
Ar	-eP	18 24 06.38	3.50	18	9
Kk	-iP	08.30	4.91	51	24
Td	+iP	08.63	5.10	16	12
Sk	-eP	13.40	8.41	21	17
St	+eP	14.15	9.64	25	17
Hd	i	19 24 50.34		48	15
Km	+iP	19 35 43.18	4.48		24
Wk	eP	44.34	5.23	201	21
Td	+iP	45.28	5.56	303	37
Ar	-eP	46.28	6.12	65	27
Hd	eP	48.29	9.1	45	36
St	+eP	49.49	8.33	35	39
Kk	eP	50.98		20	62
Hb	-eP	50.50	9.80	120	55
In	-eP	56.0	14.13	45	40
Sk	+eP	58.31		11	32
Is	(eP)	36 04.1	16.8	21	40
Td	+iP	19 44 16.66	1.03	114	6
Hd	+iP	19 44 36.92	0.98	545	11
Kk	-iP	40.34	3.10	248	(20)
St	+eP	46.82	8.29	28	17
Ar	-eP	20 02 33.76	1.04	34	3
Ar	+eP	20 20 24.76		11	4
Td	-iP	20 28 01.34	0.58	128	6
Ar	+eP	03.32	2.61	23	6
In	eP	20 34 42.7		66	28
St	+eP	43.67		42	53
Hb	eP	44.		39	155
Gz	eP	21 08 19.08	3.81	127	35
Ar	+iP	21 39 14.38	0.99	44	4
St	+eP	21 50 00.03		130	146
Hb	eP	01.01		156	246
Is	-eP	02.28		46	125
Sk	+eP	05.74		100	155
Kk	eP	05.74		65	206
Gz	eP	07.84		58	200
Td	eP	08.42		57	209
Hd	e	11.1		126	140
Ar	+eP	12.19		62	103
Wk	eP	12.70		87	184
Km	eP	17.			e
Kk	eP	22 06 38.79	5.90	16*	16
Ar	+eP	22 16 32.99	1.62	25	4

August 13

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Td	+iP	22 19 21.74	1.05	306	8
Wk	-iP	21.96	1.24	91	6
Km	-iP	22.85	1.68		5
St	+eP	22 23 34.03		14	40
Is	eP	22 32 18.3		23	56
Hb	eP	21.86		9	48
St	+eP	25.99		39	23
Ar	+eP	29.26		18	26
Kk	-eP	29.40		24	47
Hd	eP	30.50		31	26
Sk	+eP	32.00		50	35
Hd	-iP	22 38 52.15	2.99	21	11
Wk	iS	22 44 11.90		155	3
Kk	eP	22 38 54.13	4.40	12	18
Sk	+iP	22 54 51.81	4.72	135	27
Kk	-eP	54.94	6.45	321	43
Hd	+eP	56.32	(7.53)	69	36
Ar	-eP	58.46	9.65	28	22
Td	-eP	59.19	9.74	64	22
St	-iP	59.91	9.12	92	31
Wk	eS	55 10.55		23	6
Ar	+iP	23 01 12.23	1.37	5	4
Hd	i	23 06 25.06		31	3
St	-eP	23 13 06.97		7	16
Ar	+eP	23 19 34.70	1.91	16	5
Td	+eP	23 24 47.45	1.00	39	5
Wk	+iP	23 31 39.81	1.04	68*	3
Km	-iP	40.34	1.15		6
Td	-eP	40.48	1.49	292	7
Ar	+iP	41.41	2.39	18*	7

August 14

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Ar	+iP	00 01 18.59		21	3
Td	-eP	00 02 24.52	1.42	46	4
Hd	+iP	00 10 24.31	0.88	100	6
Kk	-iP	00 18 41.38	5.09	26	21
Hd	-iP	42.47	5.71	54	16
Sk	+iP	42.86	6.25	53	12
St	+eP	44.97	7.25	67	15
Wk	+eP	00 25 17.58	1.10	14	3
Td	-eP	18.42	2.02	11	6
Ar	-eP	18.47	1.64	16	5
Hd	iP	00 32 24.47	0.87	71	5
Ar	+iP	00 33 45.66	1.37	50*	5
Td	+iP	00 38 25.28	1.77	11	3
In	-iP	00 45 47.7	5.86	759*	54
Is	+iP	49.34	7.07	360	56
Hb	iP	50.23	7.90	388	73
St	+iP	50.25	8.08	459	46
Sk	+eP	53.44	10.41	164	39
Kk	+iP	54.33	10.75	516*	60
Td	eP	55.95	12.57	64	37
Ar	-eP	57.63	13.99	14	33
Hd	+eP	57.96	14.25	35	40
Td	eP	00 52 08.9	1.95	30	6
Hd	-eP	09.03	1.94	215	18
Ar	-iP	09.52	2.28	25	7
Kk	iP	09.89	2.30	240	21
Wk	+iP	00 58 16.28	1.04	82	5
Ar	+iP	16.45	1.03	39	6
Td	-eP	17.10	1.59	123	5
In	+iP	01 11 12.8	5.21	569	47
Hb	iP	13.47	5.61	691	50
St	+iP	14.47	6.37	975	41
Is	+iP	16.31	7.81	415	38
Kk	eP	19.76	10.17	65	63
Td	+iP	19.52	10.51	43	39
Sk	-iP	20.04	10.88	150	34
Ar	-eP	21.18	12.28	25	26
Hd	eP	21.91	(13.4)	67	37
Ar	+iP	01 22 03.88	1.20	79	3
Hd	+iP	02 33 07.10	1.35	118	8
Kk	iP	11.13	3.87	45*	18

August 14

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Hd	eP	02 57 11.8	1.2	17	6
St	+eP	03 06 24.08	(12.95)	25	36
Hd	+eP	03 10 33.97	1.25	17	5
Ar	+iP	03 20 20.73	0.78	18	2
Hd	-iP	03 31 22.21	2.44	26	7
Td	+iP	03 47 27.51	1.15	105	4
Hd	-iP	03 59 44.82	2.36	145	19
Ar	+iP	46.8	3.82	65	12
Kk	i	48.		69	(6)
Td	eP	49.13	5.18	30	9
St	+eP	54.83	9.15	35	17
Is	e	04 02 03.76		14	11
Hd	+eP	04 06 55.00	0.63	19	4
Ar	+iP	04 07 18.75	1.14	103	5
Hd	eP	04 17 54.36	1.29	5	4
Ar	+iP	04 29 11.37	1.01	9788	50
Td	+iP	12.70	1.75	>1038	56
Wk	+iP	12.70	1.94	>903	36
Hd	+iP	13.66	(2.61)	>983	57
Km	+iP	14.30	2.45		33
Kk	-iP	15.66	3.31	767	76
St	-eP	19.24	4.20	348	53
Sk	-iP	22.88	8.91	555	38
Hb	-eP	26.46	11.56	107	58
In	-iP	29.5	(13.96)	70	54
Is	+eP	35.7	17.8	39	52
Ar	-eP	04 33 56.29	1.33	9	4
Ar	+eP	04 57 29.63	1.25	39	6
Hd	+iP	30.17	1.98	88	12
Td	+iP	30.83	2.39	39	6
Kk	eP	32.07	3.11	20	13
Wk	+iP	05 22 23.57	0.94	>378	5
Km	-iP	24.46	1.90		6
Td	+iP	24.74	1.26	1061	12
Ar	+iP	24.9	1.94	76	9
Hd	+eP	28.01	4.42	12	10
Wk	+iP	05 33 01.47	0.83	55*	3
Kk	+iP	05 42 27.53	2.78	16	7
Hd	i	06 26 59.84		31	5
Kk	+eP	06 43 19.07	4.72	37	10
Hd	+eP	21.66	5.42	17	20
Kk	iP	06 43 29.29	1.48	16	13
Ar	+eP	06 52 25.66	1.46	7	4
Td	+iP	06 56 12.10	0.71	16	3
Sk	+eP	07 05 25.45		68	68
Kk	eP	26.75		41	127
St	-eP	29.15		44	122
Ar	+eP	31.1		30	60
In	eP	40.8		43	75
Is	e	41.5		37	71
Gz	(eP)	43.28		39	76
Ar	+eP	07 34 45.29	1.05	28	4
Hd	iP	07 56 32.85	2.45	17	8
Kk	-iP	33.08	2.48	24	24
Wk	eP	07 44 14.63	0.77	100	3
Hd	+iP	08 01 41.18	(1.07)	17	4
St	-iP	08 09 58.73	6.31	16	12
Sk	+iP	10 03.31		36	3
Td	+iP	08 17 34.53	1.64	85*	6
Ar	-eP	34.65	2.03	23	9
Hd	eP	36.18	2.89	21	9
Kk	-iP	36.46	2.87	45	25
St	-eP	39.75	5.44	26	15
Hd	-eP	08 25 47.06	2.15	19	5
Kk	e	08 29 07.45		16	8
Kk	-iP	08 59 14.15	1.60	353*	29
Hd	-iP	15.41	2.88	24*	8
Ar	+eP	19.12		7	60
Td	eP	09 03 07.96	0.95	41	4

August 14

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Ar	+iP	09 19 17.02	0.90	19	3
Ar	-eP	09 39 14.55	1.43	11	4
Ar	+iP	10 24 46.37	0.88	179*	6
Sk	+eP	10 34 18.64	8.65	598	58
Kk	+eP	20.56	10.50	179	18
Hd	eP	20.61	9.52	325	48
Ar	-eP	23.69	11.27	83	42
Td	eP	24.45	10.44	100	46
St	-eP	26.74	13.92	107	49
Hb	eP	32.43	21.56	27	49
Wk	e	38.24		32	18
Is	-eP	40.2	24.4	21	52
Hd	eP	10 43 36.3	1.6	24	5
Is	eP	11 45 20.1		32	129
In	eP	23.7		29	142
Hb	eP	26.44		9	136
Ar	+iP	12 06 29.78	1.66	99	13
Wk	i	30.40		82	5
Td	eP	31.55	2.73	43	12
Hd	+eP	32.24	2.21	10	17
Kk	eP	34.82	4.81	16	22
Sk	+eP	41.70	9.62	7	15
Hd	-iP	12 22 32.09	2.27	22	9
Ar	+iP	12 23 02.49	1.01	41	3
Sk	-iP	12 27 41.38	3.53	71	8
Ar	+iP	12 36 32.30	0.94	1154	17
Wk	+iP	32.89	1.26	433*	10
Td	+iP	33.48	1.63	272	18
Km	+iP	34.48	1.90		15
Hd	+iP	35.14	2.94	114	23
Kk	eP	37.25	4.18	37	29
St	-eP	40.01		11	21
Sk	+eP	44.47	9.62	50	21
Is	eP	12 43 52.29	10.15	18	30
Hd	e	12 46 39.4		17	3
Kk	iP	13 03 43.33	2.80	22	14
St	eP	13 09 24.11		7	51
Hb	+eP	29.65	20.24	29	50
Hd	eP	31.0		19	38
Kk	eP	33.02	23.81	16	47
Is	eP	39.11		16	56
Km	i	43.42			8
Wk	e	45.11		32	16
Td	e	47.58		36	17
Ar	+e	48.02		12	18
Kk	eP	13 10 06.37	5.40	28	18
Td	-iP	13 12 49.18	0.93	36	3
Td	+iP	13 12 55.56	1.06	224	8
Ar	-iP	57.58	2.52	34	7
Hd	+eP	13 47 12.36	1.39	12*	5
Kk	-iP	13 58 28.53	5.07	93	42
Hd	-iP	29.54	6.20	48*	19
Ar	-eP	30.24	6.32	7	15
Td	eP	30.35	6.32	32	14
Sk	+eP	30.59	6.85	64	15
St	+iP	31.52	7.00	348*	19
Ar	+iP	14 06 06.63	0.97	53	5
Kk	eP	14 14 22.94	2.34	16	19
Wk	eP	14 17 07.03	1.13	109	4
Ar	-eP	07.81	1.85	14	4
Is	+eP	15 12 05.19	10.87	135	41
In	-iP	08.6	13.36	64	42
Hb	eP	13.21	17.78	7	34
Hd	+eP	15 15 00.82	1.56	22	5
Hd	-iP	15 19 40.24	2.64	50	18
Ar	+iP	42.39	4.09	18	9
Kk	-iP	44.14	5.05	53*	24
Wk	+iP	15 39 22.62	0.81	1446	15
Km	+iP	23.06	1.13		13
Ar	-iP	23.70	1.65	441	26
Hd	+iP	26.71	3.81	62	26
Kk	eP	29.18	5.31	79	43

(to be continued)

August 14

(continued)

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
St	+iP	15 39 30.85	8.42	21	33
Sk	-eP	36.65	9.77	25	21
Ar	+eP	15 42 34.20	1.38	25	4
Is	+eP	15 56 55.54		7	20
Hd	-eP	15 59 11.32	0.87	42	6
Ar	+iP	16 15 38.16	0.86	21	3
Hd	+iP	16 38 48.55	1.63	24	5
Kk	-iP	50.91	2.72	45	15
Wk	-eP	17 44 39.47	0.65	64	3
Ar	+iP	17 54 46.51	0.82	39*	3
Ar	+iP	18 01 48.87	0.93	2726	(32)
Wk	+iP	50.20	1.68	187	15
Td	-iP	50.83	2.05	340	32
Hd	+iP	51.29	2.51	166	36
Km	+iP	51.73	2.67		10
Kk	-iP	53.99	4.11	57	50
St	+eP	57.25	6.94	48	30
Sk	+eP	02 01.06	9.41	64	23
Hb	eP	04.47	11.99	18	29
Wk	i	18 08 50.34		178	4
Ar	+iP	18 16 25.19	1.02	17	3
Ar	+ip	18 47 16.54	0.90	51*	3
Ar	-eP	19 04 36.84	1.56	21	5
Hd	+iP	19 19 40.75	0.80	301	10
Kk	-iP	44.60	3.29	158	27
Hb	eP	19 28 00.38	7.05	32	19
In	-iP	05.2	10.84	55	21
Ar	+iP	19 58 55.23	1.36	281	16
Td	+iP	55.60	1.41	162	14
Wk	+eP	56.26	2.18	59	5
Hd	+iP	57.29	2.62	33	18
Kk	iP	58.37	3.27	53	24
Kk	eP	20 08 54.35	1.54	16	6
In	eP	20 17 36.6		20	40
St	+eP	37.34		11	35
Hb	eP	38.05		21	96
Hd	-iP	20 36 53.44	2.09	344	18
Ar	-eP	55.61	3.38	30	18
Kk	-iP	57.46	4.61	116	33
Td	+eP	57.83	4.79	61	15
St	-eP	37 03.66	9.19	42	22
Sk	+eP	10.95		28	15
Gz	+eP	20 41 10.97		200	163
Is	eP	13.54		68	153
In	eP	15.9		82	175
Hb	eP	18		52	188
St	eP	20.98		28	92
Wk	eP	27.22		36	74
Ar	+eP	28.10		32	45
Kk	eP	28.17		37	145
Sk	+eP	29.72		64	78
Hd	eP	30.2		45	52
Ar	-eP	20 55 10.14	0.83	55	4
Ar	+iP	21 16 16.73		19	4
Td	eP	17.12	1.68	7	5
Td	+iP	21 18 02.95	0.74	411	8
Ar	-eP	04.36	1.89	27	7
Sk	+iP	21 25 23.41	5.50	171	18
Kk	+iP	23.43	5.28	35	30
Hd	-iP	24.13	5.76	104	17
Ar	+eP	26.09	6.64	7	18
Ar	+eP	21 45 49.42	1.09	35	4
Wk	+iP	21 54 45.26	0.68	169	4
Td	-iP	46.12	1.33	53	7
Wk	e	22 16 41.79		32	3
Sk	eP	22 27 22.64		25	39
Is	e	23.9		23	45
In	eP	25.3		41	65
St	+eP	26.49		67	68
Hb	eP	27.05		57	117

(to be continued)

August 14

(continued)

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Kk	e	22 27 34.58		10	75
Hd	e	41.11		31	37
Ar	e	42.6		21	45
Td	e	42.65		14	91
Ar	+iP	22 27 25.92	1.29	312	15
Hd	+iP	27.34	2.12	95	17
Td	eP	28.04	2.48	61	14
Wk	e	29.52		18	4
Kk	eP	30.76	4.09	57	(30)
Wk	+iP	22 33 10.61	0.88	87	4
Is	-eP	22 47 14.46	4.4	12	16
In	-iP	17.1	5.93	35	17
St	+iP	23.63	11.02	28	28
Hd	+iP	22 49 59.51	2.17	116*	15
Kk	eP	50 03.69	4.21	41*	21
Wk	+iP	23 05 54.06	0.72	980*	6
Km	+iP	55.06	1.52		9
Ar	+eP	55.38	1.90	32	13
Td	-iP	55.62	2.01	93	12
Kk	eP	06 03.64	2.40	6	14
Hd	-iP	23 19 16.91	2.54	69	14
Kk	-eP	21.04	(4.60)	16	15
Td	eP	23 19 17.09	0.94	34	5
Hd	+eP	23 25 33.0	1.01	10	4
Wk	e	23 31 18.81		18	3
Ar	-eP	23 36 18.37	1.43	19	4
Is	-iP	23 37 39.78	11.20	431	55
Gz	+eP	41.15	11.37	166	52
In	+iP	43.5	12.94	230	56
Hb	eP	48.08	16.84	55	63
St	+eP	52.93	16.76	61	48
Sk	-eP	59.78		7	51
Hd	eP	38 00.71		17	52
Kk	eP	01.06	25.13	22	54
Hd	-eP	23 50 06.43	1.38	14	5
Is	eP	23 58 17.49	10.96	32	23

August 15

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Wk	eP	00 00 52.45	1.40	96	5
Td	+iP	52.54	1.54	116	7
Ar	+iP	54.11	2.54	28	6
Hd	-eP	00 22 05.43	2.61	7	6
Hd	eP	00 35 13.5	10.2	71	31
Sk	+eP	15.02		7	26
Kk	eP	15.16	11.13	35	39
Ar	eP	15.53	11.74	21	30
Td	eP	17.97	12.18	12	32
St	eP	20.75	14.74	23	31
Hd	+eP	01 16 29.83	0.72	10	3
In	-iP	01 23 29.0	8.46	21	15
Hd	eP	01 31 29.0	17.3	64	47
Ar	+eP	30.03	18.01	37	42
Wk	eP	30.81	18.20	32	57
Td	-eP	31.96	19.52	34	51
Kk	eP	32.18	20.75	41	51
Sk	-eP	34.64	23.79	43	42
St	+eP	38.88	25.01	35	45
Is	e	50.9		14	25
Wk	e	01 32 15.79		9	a
Wk	e	01 32 36.06		14	3
Ar	+iP	01 43 18.42	1.06	34*	4
Hb	-iP	01 51 09.26	4.74	213*	31
In	-iP	10.9	5.20	406	24
St	-eP	11.91	7.21	39	27
Is	+eP	15.0	8.4	14	25
Td	+eP	01 51 58.40	1.18	36	3
Hd	-eP	02 05 34.31	1.18	69	6
Kk	-eP	36.40	2.59	53	6
Ar	-iP	02 08 16.62	1.14	296	7
Wk	e	18.41		55	3
Ar	-eP	02 18 13.69	0.84	16	2

August 15

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Wk	-iP	02 33 18.30	0.95	251	5
Km	+iP	19.02	1.15	*	7
Ar	+iP	19.27	1.79	46	8
Td	-eP	19.85	2.23	55	10
Hd	+eP	02 58 28.27	1.87	7	6
Ar	-iP	03 34 10.93	1.20	14	4
Td	+eP	03 43 07.84	0.94	57	29
Td	eP	03 59 58.93	2.21	9	5
Kk	-iP	04 01 04.10	5.27	479*	27
Hd	-eP	05.1	(6.1)	29	19
Td	-eP	05.33	6.43	27	16
Ar	-eP	05.72	5.95	7	(13)
St	+iP	06.29	6.59	155*	18
Sk	+iP	06.80	7.56	61	19
Is	e	33.15		12	10
Ar	+iP	04 04 06.80	0.95	798	15
Wk	+iP	07.22	1.13	164*	6
Td	-iP	07.71	2.02	146	15
Kk	eP	12.02	3.97	14	21
Hd	e	13.1		17	6
Wk	+iP	04 05 25.43	0.82	985*	7
Km	+iP	26.40	1.15		9
Ar	+iP	26.75	1.85	30	9
Td	-iP	27.03	1.75	171	13
Kk	eP	33.80	3.56	12	22
Wk	+iP	04 05 39.56	0.71	96	3
Td	-iP	41.18	1.80	27	7
Hd	-eP	04 42 23.08	2.38	17	6
Td	i	04 59 20.08		14	3
Wk	-eP	05 11 44.48	0.86	14	a
Wk	i	05 29 21.63		41	4
Ar	-eP	23.91	1.00	262	(13)
Td	+iP	25.90	2.54	32	9
Hd	+eP	26.0	(2.1)	7	9
Wk	e	05 31 24.79		9	2
Ar	-iP	05 38 57.18	1.03	135	6
Td	eP	59.19	2.96	36	6
Wk	+iP	05 57 13.76	1.00	1145	15
Km	+iP	13.88	0.78		17
Td	-iP	15.30	2.09	399	38
Ar	+iP	15.34	1.97	127	22
Hd	iP	18.52	4.51	54	25
Kk	eP	20.81	5.25	37	27
St	+eP	21.88	7.89	25	23
Sk	-eP	27.82	10.67	14	21
Wk	+iP	05 58 48.22	1.02	146	5
Km	+iP	48.96	1.35	*	7
Ar	+iP	49.15	1.77	53	9
Td	-iP	49.66	2.30	75	11
Hd	+iP	52.18	(3.85)	16	12
Hd	+iP	06 05 43.38	0.96	711	24
Ar	+iP	45.55	2.46	48*	(13)
Td	eP	47.40	3.62	82	15
Kk	iS	50.20		175	35
St	+iP	52.64	7.79	30	18
Sk	eS	06 00.61		4	16
Hd	+iP	06 05 41.11	0.94	66	6
Ar	+iP	43.25		16*	b
Td	eP	45.12		4	a
Td	-eP	06 47 47.39	1.03	78	4
Hd	eP	06 51 49.10	9.88	38	25
Kk	eP	53.82	12.76	37	28
Is	-e	07 11 41.74		21	22
Td	+eP	07 23 34.19	1.28	135	4
Wk	e	34.85		5	3
Ar	-eP	07 25 07.92	1.27	18	4
Hd	e	08 07 58.77		31	6
Hd	e	08 08 57.09		36	5
Ar	+eP	08 20 02.94	1.18	18	4
Hd	eP	08 25 38.98	(1.54)	21	6

St.	Pha.	Time h m s	S-P s	μ Am kine	F-P s
August 15					
Kk	eP	08 53 39.74	5.60	32	34
Hd	-eP	40.69	0.77	152	7
Wk	+iP	08 53 43.74	0.87	73	4
Ar	-iP	08 56 00.50	0.97	113	4
Wk	+iP	09 00 52.59	0.90	442	5
Km	+iP	52.99	1.02		6
Ar	+iP	53.83	1.76	25	7
Td	-eP	54.26	2.74	43	6
Hd	-iP	09 15 36.67	1.11	38	6
Ar	+iP	09 21 57.58	0.85	1087	14
Wk	+iP	57.99	1.00	73	6
Td	-iP	58.62	1.79	208	14
Hd	+eP	22 00.61	3.11	24	18
Wk	eP	09 22 12.86	1.05	18	4
Ar	+eP	09 42 08.85	1.09	32	3
Hd	-iP	09 47 20.57	5.00	21	17
Kk	+iP	21.84	5.74	30	22
Ar	-eP	22.3	6.33	12	10
Hd	-iP	09 55 01.94	1.73	28	7
Ar	+i	10 15 24.94		21	4
Hd	eP	10 35 12.12	1.52	24	5
Is	+iP	10 40 47.39	4.77	66	13
Ar	-eP	10 44 41.99	1.62	73	7
Td	+iP	42.69	2.08	30	6
Hd	-eP	42.81	2.05	66	17
Kk	eP	43.87	2.73	32	25
Wk	+iP	11 00 44.08	0.96	164*	4
Ar	+iP	44.94	1.48	42*	6
Td	-eP	45.35	1.87	27	6
Hd	e	11 12 14.72		26	3
Ar	+iP	12 03 10.30	0.93	18	5
Ar	+iP	12 08 46.76	1.18	7*	3
Ar	+iP	12 32 09.55	0.85	264	6
Hd	+iP	10.86	1.68	21	11
Td	-eP	12.12	2.28	34	7
Kk	eP	14.95	3.05	20	26
Hd	-iP	12 39 34.44	2.40	29	11
Kk	-eP	38.35	5.12	12	19
Hd	+iP	13 05 05.39	9.92	19	21
Kk	eP	08.27	11.78	24	33
Td	+iP	13 07 03.50	1.40	239	6
Wk	+eP	04.13	1.16	68	5
Ar	-eP	05.28	2.25	11	6
Td	+iP	13 30 31.91	1.12	125	5
Ar	e	13 45 39.77		9	a
Kk	eP	13 49 39.42		18	79
Is	eP	49.5		20	40
Hd	+eP	14 16 02.68	1.85	19	6
Ar	+iP	14 31 16.89	0.83	335*	7
Td	eP	19.28	2.25	20	7
Kk	iP	14 33 28.84	1.47	41	10
Hd	-iP	14 55 50.36	3.01	104	22
Ar	-eP	50.8	2.96	32	9
Td	+eP	50.91	2.87	21	9
St	-eP	54.70	4.90	79	21
Ar	+iP	15 00 29.86	1.16	85	5
Wk	e	30.10		27	5
Td	+iP	30.30	1.48	100	6
Ar	+iP	15 08 32.62	1.05	258	7
Hd	+eP	34.10	2.22	12	9
St	+eP	15 21 48.37	7.77	16	19
Is	-eP	15 28 31.55	5.95	41	13
Ar	+iP	15 28 51.80	1.15	78	3
Ar	-eP	15 38 16.47	0.78	28	2

St.	Pha.	Time h m s	S-P s	μ Am kine	F-P s
August 15					
Hd	+iP	15 40 15.66	0.77	21	4
Is	+eP	15 52 59.46	7.94	14	15
Wk	eP	16 07 20.53	0.73	87	5
Ar	-iP	16 07 34.61	1.05	46	34
Ar	-eP	16 36 12.88	1.17	9	4
Hd	+iP	16 44 24.12	1.17	16	3
Hd	+iP	17 11 58.75	1.16	31	34
Hd	+iP	17 13 32.29	1.20	21	5
Hd	+iP	17 19 54.65	1.17	17*	4
Hd	+eP	17 43 19.21	(1.25)	73	7
Kk	eP	22.08	2.97	20	7
Hd	+iP	17 59 41.12	1.18	144	10
Kk	eP	44.77	3.32	39	10
Td	eP	18 10 29.14	0.90	84	3
Hd	+iP	18 16 10.42	1.18	73	8
Td	+iP	18 26 29.54	1.19	119	3
Hd	+iP	18 28 11.62	0.86	22	4
Hd	-iP	18 47 00.61	(3.11)	22	10
Hd	-eP	19 19 02.31		17	5
St	-eP	19 20 17.72		11	58
Is	eP	41.3	33.1	21	75
Wk	-iP	19 30 16.93	1.09	219	5
Td	+iP	17.07	1.21	842	6
Td	eP	19 34 57.21	0.96	166	3
Kk	+iP	19 53 13.01	2.93	309	30
Hd	+iP	14.37	3.28	147	19
Sk	-eP	14.80	4.90	203	14
Ar	+eP	16.65	5.56	12	12
Td	+iP	17.44	6.39	52	12
St	+eP	19.66	7.20	46	17
Hd	+iP	20 10 11.47	0.88	66	5
Ar	+eP	20 20 09.36	0.86	14	4
Hb	+iP	20 38 37.02	2.15	174	16
In	+iP	39.9	4.24	201	18
Is	eP	44.8	9.3	5	20
Td	-eP	20 46 14.70	0.99	64	4
Ar	-eP	(15.83)	0.91	28	3
Ar	+iP	20 52 33.01	1.36	60	6
Ar	+iP	21 17 23.28	0.93	1037*	20
Wk	eP	24.28	1.87	150	9
Td	+iP	24.59	1.78	222	25
Hd	+iP	25.51	2.50	107	26
Km	-eP	26.08	1.57		19
Kk	eP	27.60	3.75	85	33
Sk	-eP	35.07	8.36	21	21
Hb	(-eP)	37.	(13.15)	47	53
Sk	-iP	21 19 47.08	3.27	1994	61
Kk	-iP	51.05	6.04	426	75
Hd	eP	53.2	8.2	206	40
St	+iP	55.24	9.29	442	48
Td	P	55.	10.	100	81
Ar	-eP	55.3	9.65	136	37
Wk	+eP	56.89	11.92	91	43
Km	-eP	58.00	12.83		26
In	-iP	20 02.8	14.82	154	43
Is	eP	06.9	18.3	53	59
Ar	+iP	21 27 39.38	0.79	483*	7
Td	+iP	41.48	1.89	23	11
Is	e	21 38 06.0		20	15
Kk	eP	21 42 14.42	2.14	16	6
Ar	+eP	21 50 39.24	0.99	19	a
Td	-iP	21 59 09.17	2.00	91	8
Kk	+iP	22 27 07.85	4.82	65	24
Sk	-iP	08.77	6.03	96	14
St	-iP	09.71	6.08	18	13
Hd	+iP	10.29	(6.52)	80	16
Td	+eP	10.39	6.54	22	13

St.	Pha.	Time h m s	S-P s	μ Am kine	F-P s
August 15					
Hd	+iP	22 41 01.87	1.65	31*	6
Ar	+iP	22 43 09.84	0.90	23	2
Td	-iP	22 46 30.54	1.06	72	6
Td	+iP	22 46 44.95	1.21	24	4
Hd	-iP	22 56 58.59	1.58	33	8
Kk	-iP	59.77	2.30	55	14
Wk	+eP	23 03 42.51	1.11	529	5
Td	-iP	42.83	1.36	419	18
Km	-iP	43.19	1.90		8
Ar	-eP	44.52	1.58	18	b
St	+eP	48.79	6.49	12	12
Ar	-iP	23 16 52.71	1.10	73	4
Td	+iP	23 34 50.75	0.80	16*	3
Ar	+eP	23 59 15.35	1.12	14	3
August 16					
Hd	-iP	00 05 28.66	1.72	38	7
Kk	iP	29.61	2.20	22	6
Hd	e	00 12 35.1		10	3
Td	iS	00 17 28.75		42	5
Hd	+iP	00 30 49.20	3.94	137*	26
Ar	+iP	51.68	5.62	60	15
Kk	eP	51.93	5.87	166	30
Td	+iP	53.84	7.04	78	24
Sk	+eP	54.64	8.77	39	22
St	-eP	58.64	9.37	60	22
Td	iS	00 32 03.75		23	3
Hd	+iP	00 38 06.60	0.77	21	4
Td	iS	00 51 05.22		26	4
Ar	+i	01 10 31.67		28	2
Td	iS	01 11 16.15		30	3
Td	eP	01 15 15.40	1.20	19	4
Td	+iP	01 36 59.41	1.54	9	4
Ar	-eP	01 41 59.00	1.28	11	4
Td	+iP	01 57 03.83	1.05	33	5
Td	+eP	02 01 13.16	1.75	13	5
Ar	+iP	02 23 29.75	0.83	14	4
Td	-iP	02 30 41.70		66	5
Wk	+iP	02 54 01.50	0.72	2070*	16
Km	-iP	02.47	1.47		25
Ar	-iP	02.82	1.54	143	19
Td	-iP	03.10	1.88	182	42
Hd	+eP	06.14	3.75	107	26
Kk	eP	08.10	5.28	24	35
St	-eP	10.07	6.15	14	22
Sk	-eP	15.64	10.27	25	21
Td	+eP	02 55 24.34		66	7
Ar	-eP	03 08 39.78	1.25	16	4
Td	eP	40.58	1.97	81	9
Hd	eP	41.7		9	13
Kk	eP	43.68	4.19	32	11
Wk	eP	03 12 43.75	0.95	55	3
Km	+iP	44.08	0.95	*	4
Td	-iP	45.31	2.59	26	11
Ar	-eP	45.21	2.05	11	6
Td	i	03 21 22.04		17	4
Td	+iP	03 46 36.23	1.32	360	6
Wk	i	36.99		64	3
Ar	+iP	37.36	2.05	11	6
Ar	+iP	03 55 17.22	1.03	27	3
Td	-eP	04 12 26.03	1.38	14	4
Td	+iP	04 13 08.81	1.44	31	3
Hd	eP	04 32 15.76	2.57	5	5

St.	Pha.	Time h m s	S-P s	μ Am Kine	F-P s
August 16					
Hd	e	04 33 35.6		9	9
Td	+iP	37.75	2.25	9*	4
Hd	-iP	04 53 37.23	2.66	52	8
Kk	-iP	40.96	4.85	24	14
Ar	+iP	04 59 54.37	1.22	248	14
Hd	eP	56.0	2.6	36	18
Td	+iP	56.61	2.95	47	22
Kk	eP	59.36	4.55	22	23
Ar	+iP	05 00 29.92	1.15	175	11
Hd	-iP	31.57	2.52	29	17
Td	-iP	32.03	2.65	43	21
Kk	eP	34.98	4.50	8	22
St	+eP	38.04	8.31	35	27
Td	-iP	05 05 59.49	1.52	10*	3
Td	+iP	05 12 33.14	1.57	20	4
Ar	+eP	05 15 26.42	1.08	19	4
Td	-iP	27.40	1.90	17	4
Td	-iP	05 21 52.01	0.98	31	5
Td	eP	05 32 59.26	1.50	13	3
Td	e	05 53 32.74		17	28
Hd	e	35.36		24	14
Sk	+eP	36.53		25	11
Is	+eP	05 58 09.16	9.30	11	17
Td	+iP	06 04 07.81	1.44	76	5
Hd	+iP	06 15 54.17	0.77	35	6
Kk	-i	57.91		12	9
Hd	+iP	06 17 15.60	0.73	125	6
Ar	+eP	06 19 38.79	1.02	53	5
Ar	+iP	06 58 53.64	0.79	30	3
Hd	+iP	06 59 09.95	0.95	14	6
Hd	e	07 07 35.5		24	7
Td	+iP	07 08 21.76	1.27	26	4
Hd	-iP	07 27 58.44	1.44	>1156	44
Kk	-iP	28 00.24	2.53	897	67
Ar	+iP	00.35	2.79	425	32
Td	+iP	01.66	3.91	181	70
Wk	+iP	02.21	4.06	114*	21
Km	-iP	03.91	4.50		11
St	-iP	06.15	6.95	255	41
Sk	-eP	06.38	6.75	498	42
Hb	+eP	13.78	10.92	54	36
In	-iP	17.4	13.83	94*	30
Is	-eP	22.29	17.0	25	40
Hd	+eP	07 33 43.76	0.84	47	7
Td	+iP	07 34 23.40	1.21	293	21
Wk	-iP	24.17	1.67	205	8
Km	-iP	25.03	2.18	*	8
Ar	-eP	25.41	2.53	81	10
St	+eP	28.60	4.97	37	18
Is	+eP	07 36 37.82	10.81	66	23
Ar	+eP	07 41 42.87	1.03	12	2
Kk	-iP	07 48 14.03	2.57	49	24
Hd	-iP	15.13	3.59	47	12
Ar	+eP	08 04 58.67	0.93	34	3
Ar	-iP	08 12 30.20	1.04	19	4
Td	iP	08 17 06.90	1.10	>500	48
Wk	-iP	07.33	1.26	415	11
Km	-iP	08.29	1.93	*	13
Ar	-iP	08.55	2.32	414	15
Hd	-eP	11.58	4.34	57	26
Kk	eP	12.25	4.80	22	41
St	+eP	12.46	6.09	77	19
Hb	+eP	17.85	12.67	11	27
Sk	-eP	20.39		7	18
Td	+iP	08 24 21.73	1.18	56	5
Hd	+iP	08 28 43.70	0.88	10	5

St.	Pha.	Time h m s	S-P s	μ Am Kine	F-P s
August 16					
Hd	-eP	08 30 40.73	9.65	332	42
Ar	+eP	41.25	11.73	53	29
Wk	+iP	42.90	12.94	73	26
Td	+eP	44.20	13.61	56	105
Kk	eP	44.78	13.57	129*	47
Sk	+eP	48.81	16.36	221	37
St	-iP	50.89	16.54	25	44
Is	e	31 04.4		7	21
Hd	+iP	08 48 56.98	1.18	106	8
Kk	-iP	49 00.11	3.04	67*	12
Ar	-eP	08 52 36.54		11	3
Kk	-iP	08 59 22.24	1.49	73*	5
Hd	+iP	09 04 17.86	1.49	135	12
Kk	-iP	21.58	3.81	85*	15
Ar	+iP	09 08 36.38	1.67	172	7
Hd	+eP	38.45	2.37	12	8
Td	+eP	38.38	3.60	28	12
Kk	eP	41.57	4.75	20	17
Td	+iP	09 13 45.95	0.66	120	5
Td	+iP	09 15 36.75	2.30	110	6
Td	i	09 19 32.56		37	3
Ar	-eP	09 23 16.49		14	4
Ar	+iP	09 25 16.41	0.85	680	9
Td	-iP	18.42	2.63	53	8
Wk	eP	10 19 33.83	1.03	91	4
Wk	-eP	10 20 48.01	1.05	150	5
Td	+iP	49.68	2.35	9	8
Ar	+iP	10 30 11.53	0.86	16*	3
Wk	+iP	10 49 43.49	1.00	939	28
Km	+iP	43.90	0.88		21
Td	-iP	44.60	1.63	430	42
Ar	+iP	45.18	2.02	644	30
Hd	+iP	48.41	4.67	168	28
Kk	eP	49.99	5.29	104	37
Sk	+eP	57.78	10.29	46	29
In	eP	50 00.8	14.13	23	30
Is	eP	07.36	17.91	7	16
Td	+iP	11 05 09.90	0.91	21	4
Td	-iP	11 14 57.08	1.35	66	7
Ar	+eP	11 16 18.50	1.12	32	5
Hd	-eP	11 32 00.99	0.63	61	6
Hd	i	11 45 12.69		19	3
Kk	eP	13.10	1.97	20	7
Td	-iP	11 46 58.75	1.45	53	5
Ar	+eP	11 48 40.40	1.04	39	4
Ar	+iP	11 52 19.10	0.86	(25)	3
Td	-iP	12 08 04.00	1.35	25	3
Ar	+i	12 26 39.49		12	2
Hd	i	13 18 49.46		17	6
Kk	eP	13 33 59.88	4.90	26	16
Sk	+eP	34 00.61	6.09	21	19
St	+eP	02.91	5.56	25	16
Td	+eP	13 56 50.77	0.90	53	5
Ar	-eP	52.86	2.54	14	5
Is	e	14 04 48.3		16	25
Ar	-eP	14 23 53.81	0.84	9	3
Wk	eS	14 24 58.46		96	4
Wk	-iP	14 27 01.66	0.91	2102	25
Ar	-eP	02.04	1.41	627	26
Km	+iP	02.63	1.38		17
Td	-iP	03.26	2.55	600	19
Hd	+iP	05.00	3.49	202	34
Kk	eP	07.44	5.33	144	45
Sk	+eP	14.59	10.46	128	33
Hb	eP	15.08	14.23	21	29
In	+eP	20.8	14.1	27	35
Is	+eP	26.80	18.75	12	30

St.	Pha.	Time h m s	S-P s	μ Am Kine	F-P s
August 16					
Km	+iP	14 44 17.36	1.15		6
Wk	-iP	17.62	1.16	55	6
Ar	-eP	19.05	2.15	25	7
Km	i	15 23 14.33			6
Kk	+iP	15 26 19.57	2.79	24	17
Ar	+iP	15 41 16.51	0.87	315	9
Wk	+eP	17.71	1.78	36	6
Td	+eP	18.74	1.92	58	7
Hd	e	21.27		28	14
Wk	e	16 09 19.07		14	3
Wk	i	17 04 51.99		137	2
Ar	+eP	17 06 56.78	1.70	12	4
Hd	+iP	17 13 41.32	1.04	123	8
Kk	-eP	45.28	3.51	28	17
Hd	+iP	17 36 16.97	0.94	282	12
Ar	+iP	19.08	2.46	30	11
Kk	-iP	20.57	3.20	85	20
Hd	+eP	17 51 24.49	1.20	22	8
Hd	-iP	17 58 40.49	2.23	66	12
Kk	-eP	44.61	4.63	20	16
Sk	-eP	58.26		7	18
Km	i	18 02 34.00			7
Km	i	18 28 34.75			6
Ar	+iP	18 30 38.12	1.20	87	4
Wk	eP	18 33 00.96	0.90	173	7
Km	+iP	01.38	0.95	*	11
Ar	+iP	02.33	1.99	58	11
Td	-iP	02.52	2.02	63	8
Hd	+iP	05.46		24	16
Kk	eP	09.14	3.71	6	19
Wk	eP	18 38 13.11	0.98	46	9
Km	+iP	13.50	0.95		11
Ar	+iP	14.46	1.91	76*	(10)
Td	-iP	14.64	1.95	131	9
Hd	+iP	17.63		42	18
Kk	eP	21.22	3.87	8	20
Hd	-iP	18 59 16.94		17	8
Wk	e	19 06 41.01		59	4
Is	+iP	19 14 31.42	3.73	52	15
Wk	iS	19 19 39.51		50	4
Hd	+iP	19 45 16.19	0.98	400	11
Kk	-iP	19.31	3.10	355	18
Kk	+iP	20 17 43.06	2.84	59*	21
Hd	+eP	44.72	3.86	24	13
Sk	-eP	45.26	4.19	68	19
Ar	+iP	46.96		21	3
Ar	-iP	20 18 19.07	0.71	78	3
Hd	eP	20 23 59.82	2.23	24	6
Ar	+eP	20 58 58.73	1.72	113	(14)
Hd	-iP	59.63	2.16	228	20
Td	+iP	59.64	2.22	122	15
Kk	-iP	59 00.89	2.89	122	24
Wk	e	02.90		36	5
Td	-iP	21 02 09.08	0.64	29	4
Wk	+iP	21 33 39.33	1.00	698*	10
Km	-iP	39.88	0.90		13
Ar	+iP	40.70	1.93	73	(12)
Td	-iP	40.82	1.93	130	16
Hd	-eP	43.86		33	20
Kk	eP	46.01		8	23
Sk	+eP	53.38	10.65	11	27
Hd	+eP	21 35 03.27	0.97	85	7
Kk	-eP	06.56	3.07	22	6
Hd	eP	21 54 10.94	0.77	54	8
Ar	+i	13.51		27	2
Hd	eP	22 13 30.82	2.00	17	6
Ar	+eP	22 16 04.63	1.17	18	4
Hd	+eP	22 17 59.66	5.32		9

August 16

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Td	iS	22 18 43.88		38	3
Sk	+eP	22 29 53.06		7	15
Kk	iP	23 04 06.77	1.15	16	5
Sk	+iP	23 17 56.07	3.03	146	22
Kk	eP	56.49	3.11	99	17
Hd	+eP	59.66	5.32	28	9
Td	+eP	18 01.40	5.18	18	15
Ar	-eP	01.44	6.35	14	11
St	+eP	01.82	7.05	28	21
Td	eP	23 20 58.61	1.15	29	3
Hd	+iP	23 21 57.36	0.87	67	6
Gz	eP	23 35 31.40	9.08	83	32
Hb	eP	40.92	16.82	100	56
In	-eP	41.2	16.9	200	72
Is	+eP	41.31	17.64	64	60
St	-eP	48.73	22.08	99	59
Td	eP	51.08	23.75	30	95
Ar	+eP	52.95	26.05	14	51
Hd	eP	55.2		31	55
Kk	eP	55.51	25.73	32	65
Sk	+eP	56.63	28.02	78	84
Wk	eS	36 16.07		23	14
Hd	eP	23 39 32.91	1.69	3	5
Wk	+iP	23 48 43.98	0.80	91	4
Km	+iP	44.79	0.98		6
Ar	+iP	45.29	1.85	28	6
Td	-iP	45.38	2.03	56	12
Hd	+eP	48.52		10	10

August 17

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Hd	+iP	00 03 41.46	1.55	95	8
Kk	-eP	45.26		18	6
Hd	+eP	00 06 32.22	1.38	31	6
Ar	+eP	00 15 31.18	1.09	14	3
Td	eP	00 17 07.19	1.57	13	6
Ar	-eP	00 30 40.64	1.04	25	3
Td	+eP	42.11	2.29	11	8
Hd	+eP	00 40 51.91	1.87	19	6
Td	iS	00 45 34.25		32	3
Kk	eP	00 46 38.23	7.63	8	15
Hd	-iP	00 54 42.53	0.82	52	7
Td	+eP	01 04 07.71	1.54	54	4
Hd	eP	01 10 40.61	1.32	21	10
Ar	+iP	41.11	1.78	44	4
Td	eP	43.30	3.19	4	11
Kk	eP	44.51	3.70	18	13
Hd	-eP	01 18 15.57	2.00	14	5
Ar	+eP	01 26 47.43	1.25	18	4
Td	+iP	01 28 03.20	1.29	31	5
In	+ep	01 34 02.8	9.71	39	23
Is	+eP	06.83	14.02	14	28
Hd	-iP	01 43 51.45	1.17	21	5
Td	+iP	01 59 1.50	30.59	88	4
Sk	-eP	02 09 11.04		11	27
Td	+iP	02 11 11.37	1.59	89	7
Hd	+eP	13.60	3.21	16	9
Td	+iP	02 36 41.16	1.94	93	13
Ar	-eP	41.52	2.18	34	12
Kk	eP	42.49	2.54	39	23
Hd	-iP	42.78	2.95	201	16*
Wk	e	45.09		36	4
St	+eP	45.83	4.87	9	22
Td	iP	02 43 45.57	1.50	115	5
Hd	+iP	03 16 35.84		17	11
Kk	e	44.40		16	13
Td	e	47.44		5	5
Wk	eP	03 20 33.35	0.94	169	5
Ar	+eP	34.41	1.46	14	5
Td	-iP	35.04	2.96	24	6

August 17

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Ar	+eP	03 49 56.52	0.89	7	3
Td	i	03 53 27.74		20	2
Wk	-eP	04 16 38.57	0.66	68	4
Td	-iP	39.20	1.10	36	6
Ar	-eP	40.09	1.63	16	4
Hd	+eP	04 20 09.8	1.5	3	4
Hd	-eP	04 24 55.73	3.62	12	7
Hd	e	04 30 32.95		26	5
Hd	-eP	04 38 00.6	1.2	19	6
Hd	i	05 12 47.22		28	3
Sk	+eP	05 43 06.23		28	7
St	-eP	07.56		30	12
Hd	+iP	05 44 16.77	0.80	33	8
Ar	+eP	19.24	2.68	9	6
Kk	-eP	20.70	3.52	32	11
Kk	e	05 48 42.44		22	5
Hd	+iP	06 16 04.65	4.11	204	31
Ar	+iP	07.16	6.24	89	18
Kk	+iP	07.51	5.78	146	32
Td	+iP	09.15	6.98	72	16
Sk	+iP	10.06	8.85	57	27
St	-eP	14.00	10.07	79	25
Ar	e	06 25 39.79		11	3
Ar	+iP	06 25 55.55	0.93	30	4
Ar	-eP	07 11 33.41	0.87	55	4
Wk	-eP	07 14 06.24	1.05	132	7
Td	-iP	06.51	1.19	399	5
Km	-iP	07.05	1.43		8
Ar	eP	07.71	2.09	37	7
Kk	-iP	07 35 15.14	3.08	353	21
Sk	+iP	16.11	4.23	78	15
Hd	+eP	18.71	5.82	26	16
Wk	+eP	07 45 50.46	0.92	50	4
Hd	-iP	07 50 13.81	2.09	166*	10
Ar	+eP	13.92	2.36	48	8
Kk	-iP	14.08	2.18	102	18
Td	+iP	14.56	2.72	48	8
Wk	i	08 04 45.85		76	a
Td	+iP	08 08 23.07	1.13	16	4
Hd	eP	08 20 45.26		28	23
Kk	eP	46.23	1.18	61	27
Td	e	47.80		46	25
Td	iS	08 22 09.08		125	b
Kk	-iP	08 44 11.15	2.99	248	14
Hd	-iP	09 02 05.39	2.03	151	9
Kk	-iP	05.61	2.39	171	24
Ar	+iP	07.73	3.81	27	11
Td	+iP	08.72	4.64	30	11
Sk	+iP	10.64	5.77	43	17
St	-eP	12.87	6.51	120	18
Wk	+iP	10 02 07.96	1.14	584*	6
Ar	+iP	08.58	1.32	94	14
Km	+iP	09.02	1.60		
Hd	+eP	11.64	3.64	33	19
Kk	eP	13.93	5.25	12	21
Is	+eP	10 08 40.48	(11.23)	18	27
Hd	-iP	10 13 36.24	2.55	19	9
Kk	-eP	10 28 20.24	2.35	22	6
Kk	iP	10 55 38.32	3.07	1137	53
Sk	+iP	39.27	3.90	534	34
St	+iP	40.80	4.98	359	43
Hd	+iP	41.87	5.84	166	31
Ar	+eP	42.49	4.24	21	20
Wk	i	43.43		68	3
Is	-eP	54.5	13.3	32	35
Kk	eP	11 00 45.99	1.63	28	5
Wk	+iP	11 21 17.81	0.98	214	4
Ar	+eP	18.3	1.39	85	7

August 17

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Wk	e	11 33 02.09		55	4
Ar	+eP	02.43	1.48	18	4
Td	-iP	02.98	2.05	38	6
Hd	-iP	11 56 02.28	0.85	725	38
Ar	+iP	04.92	2.98	212	17
Kk	-iP	06.45	4.50	410*	43
Td	+iP	06.96	4.25	156	20
Sk	-eP	12.26	7.47	68	28
St	+iP	13.41	7.38	61	29
Hd	+iP	12 34 47.92	1.08	16	6
Ar	-iP	12 37 57.56	0.82	21	3
Ar	+iP	12 35 35.67	0.99	28	4
Hd	e	13 08 20.36		12	6
Ar	e	20.39		25	4
Wk	-iP	13 21 27.24	1.38	730*	12
Km	-iP	28.17	1.90	*	10
Ar	-iP	28.56	2.32	258	18
Hd	+eP	31.57	4.45	40	21
Kk	eP	32.21	4.85	47	33
St	+iP	32.60	5.69	46	27
Sk	+eP	39.42	9.73	21	26
Is	e	13 26 04.66		52	27
Hb	+iP	10.49		41	22
St	+iP	13.14		81	18
Sk	+eP	15.33		53	16
Kk	eP	16.34		8	9
Kk	-iP	13 36 43.03	1.86	53	7
In	+iP	13 38 08.6	4.41	59	25
Is	+iP	09.91	5.36	25	20
Hb	eP	11.86	6.81	4	19
St	+eP	14.16	8.84	19	21
Hd	+iP	13 39 06.03	1.23	14	5
Hd	+iP	13 39 11.38	0.90	31	4
Ar	-eP	13 43 25.69	0.92	7	3
Ar	-eP	13 45 44.29	1.18	14	4
Hd	(eP)	13 48 16.58	(1.07)	14	5
Ar	+eP	13 59 16.22		25	2
Wk	-iP	14 01 16.40	0.68	825	14
Km	-iP	17.45	1.45		6*
Ar	-iP	18.10	1.76	133	7
Hd	+eP	21.3	4.4	21	15
Ar	+iP	14 15 11.82	1.21	696	10
Wk	eP	12.15	1.16	78	6
Is	+eP	14 27 13.41	10.98	48	47
Hb	eP	28.76		5	39
Kk	iP	14 33 48.37	3.05	171	18
Hd	(eP)	52.42	(5.20)	14	11
Wk	e	14 40 38.65		41	3
Sk	+iP	14 58 19.26		53	18
Kk	eP	24.27	4.97	16	13
Kk	eP	15 09 22.83	2.69	24	7
Ar	+iP	15 17 32.72	0.76	122	3*
Ar	-eP	15 19 51.05	1.04	12	3
Hd	-iP	15 37 36.91		21	10
Ar	+eP	15 55 12.20	1.34	21	3
Ar	-iP	16 04 16.56	1.44	140*	5
Kk	eP	16 27 17.36	2.47	28	8
Kk	eP	16 27 49.25	2.66	6	8
Wk	+iP	16 27 53.65	1.30	100	5
Ar	-eP	53.70	0.69	39*	7
Kk	eP	28 01.28	3.44	8	9
Kk	iP	16 38 02.15	1.82	126	11
Hd	-iP	02.24		24	11
Is	eP	16 41 30.30		25	54
Sk	-eP	17 09 30.33	12.04	75	72
Ar	-iP	17 24 41.11	1.95	28	9
Hd	-iP	42.40	2.90	107	12
Kk	iP	42.64	2.74	142	22

August 17

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Sk	+eP	17 34 50.14	12.11	75	78
Is	e	17 51 34.95		18	35
St	+eP	41.76		25	34
Kk	(eP)	46.29		20	52
Kk	-eP	17 52 51.00	3.24	37	7
Hd	+iP	17 56 52.63	1.25	45	10
Sk	-eP	18 07 01.24		4	40
Ar	+iP	18 31 01.94	0.86	28	3
Td	+iP	18 33 39.35	1.11	146	6
Kk	-iP	18 50 21.45	5.67	345	28
Hd	-eP	22.32	6.30	35	21
Ar	+eP	22.63	6.65	12	14
Td	-iP	22.79	6.74	55*	14
Sk	+eP	23.70	7.46	82	25
St	-iP	23.75	7.15	69*	17
Td	iP	18 52 29.63	1.06	299	6
Ar	+eP	31.69	2.02	21	4
Hd	+iP	18 53 44.41	1.15	45	7
Kk	-iP	18 54 36.28	3.94	958	35
Td	iP	37.73	5.02	306	27
St	+iP	38.31	4.49	804	28
Ar	-iP	38.51	5.83	73*	19
Hd	-iP	38.64	6.09	190*	25
Sk	+iP	39.04	6.15	107	26
Wk	-iP	39.09	6.44	82	18
Is	+eP	50.66	12.99	45	28
Wk	-iP	19 08 16.64	1.17	96	4
Ar	-eP	17.51	1.83	67	7
Td	-iP	18.35	2.63	75	11
Hd	eP	20.38		14	7
Hd	e	19 43 29.4		97	60
Ar	+eP	31.4		74	90
Kk	eP	32.25		112	163
Td	+eP	32.70		208	248
Sk	+eP	34.03		75	145
Wk	e	37.68		55	182
St	+eP	38.56		28	45
Hb	eP	39.		29	183
Is	eP	42.5		69	135
Gz	eP	19 59 02.05	9.42	49	29
Hb	eP	11.49	16.91	61	57
In	+eP	11.9	17.0	121	57
Is	+eP	12.0	17.5	36	53
St	+eP	17.83	23.82	67	56
Kk	(eP)	23.80	28.02	16	56
Sk	+eP	27.85		18	52
Hd	+eP	20 04 27.71	1.70	22	5
Hd	eP	20 10 54.29	0.83	57	7
Td	+iP	20 33 14.45	0.83	180	7
Ar	eP	16.5	2.14	18	5
Ar	+iP	21 17 35.48	1.15	402	9
Hd	eP	37.2		29	9
Td	+iP	37.96	2.47	42	11
Ar	+iP	21 18 08.01	1.11	304	7
Td	+iP	10.49	2.45	23	8
Kk	e	21 31 07.66		37	4
Ar	-iP	21 36 39.04	0.85	39	5
Sk	+iP	21 52 17.29	2.90	456*	23
Kk	eP	20.67	5.03	20	21
Hd	+eP	23.4	7.2	28	14
Hb	eP	22 07 16.42		50	69
Sk	+eP	22 12 09.60		78	41
Kk	eP	12.81		22	35
Is	eP	22 23 32.15		16	43
Sk	-eP	40.07		25	34
Ar	+eP	22 25 32.82	0.98	18	3
Ar	+iP	22 38 25.11	1.02	65	4
Hd	-iP	22 50 36.36	2.26	29	8
Hd	-iP	22 52 32.50	2.40	329*	28
Ar	+eP	34.49	3.61	136	10

(to be continued)

August 17

(continued)

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Kk	-iP	22 52 36.56	4.73	102	34
Td	+eP	36.69	4.89	66	18
Sk	+eP	41.92	8.30	21	20
St	+eP	42.18	9.61	42	19
Td	+iP	23 10 51.35	1.15	54	4
Td	eP	23 14 46.7	1.85	30	5
Ar	-iP	23 27 51.46	0.95	28	4
Ar	-iP	23 33 59.89	0.91	57	4
Wk	e	34 01.28		14	3
Td	eP	01.33	2.42	9	6
Td	iS	23 41 37.20		27	3
Sk	eP	23 42 42.11		14	35
Ar	i	23 51 02.52		34	1

August 18

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Wk	eP	00 06 30.16	0.67	383	5
Ar	-eP	31.47	1.75	18	5
Td	-iP	31.89	2.00	46	7
Td	eP	00 19 40.15	1.40	79	5
Kk	eP	00 20 37.01	5.18	18	12
Hd	-iP	38.02	5.73	42	12
Td	eP	00 26 26.95	1.48	31	5
Td	eP	00 31 59.41	1.35	30	4
Wk	+eP	00 35 26.25	1.00	246	6
Km	+iP	27.00	1.27	*	5
Ar	-eP	27.17	1.75	28	6
Td	-eP	27.73	2.11	114*	10
Hd	+eP	00 44 13.76	1.02	10	4
Wk	+iP	01 04 43.03	0.97	105	4
Ar	-eP	43.77	1.44	30	5
Km	+iP	43.92	1.40		8
Td	-iP	44.55	2.02	23	7
Sk	-eP	01 15 13.72		25	10
Hd	-eP	01 17 08.70	1.62	42	6
Td	-eP	10.01	2.49	8	10
Kk	eP	11.33	3.10	16	7
Hd	+eP	01 20 38.05	1.57	9	4
Hd	-eP	01 22 28.34	2.23	5	5
Hd	+iP	01 23 04.97	1.05	57*	5
Is	e	01 27 28.70		11	45
Hb	eP	31.45		21	60
Hb	-iP	01 44 27.37	7.15	451	51
Km	+iP	29.88	9.15		30
Td	eP	30.37	9.23	40	47
St	+iP	30.60	9.18	104	47
Wk	-eP	30.63	9.6	32	25
In	-iP	32.3	11.15	146	40
Ar	-eP	32.48	12.59	18	27
Gz	eP	32.57		63	17
Kk	eP	35.43	12.62	28	38
Hd	eP	35.63		83	30
Is	+eP	37.40	(16.3)	20	40
Sk	+eP	41.73	16.50	32	41
Hd	+eP	01 45 40.83		14	6
Td	-eP	01 46 38.09	3.91	24	13
Kk	+iP	01 48 07.58	1.57	692	24
Hd	-iP	08.76	2.40	71	18
Ar	eP	09.5	2.73	35	8
Td	eP	09.74	2.80	28	12
St	+eP	13.14	5.52	44	24
Hd	-eP	01 49 38.21	0.86	10	5
Hd	eP	01 57 58.70	0.77	10	4
Td	-eP	01 59 32.50	5.76	24	16
Wk	e	02 02 13.28		41	4
Td	-eP	14.24	2.50	21	6
Wk	eP	02 06 36.8	1.3	141	6
Td	+iP	37.11	1.54	420	11

(to be continued)

August 18

(continued)

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Km	-iP	02 06 37.13	1.05	*	6
Ar	+eP	38.61	2.31	30	6
Ar	e	02 07 15.11		11	(4)
Td	-iP	02 13 52.64	1.52	19*	4
Hd	-eP	02 39 13.81	7.50	28	20
Kk	eP	15.14	8.75	16	23
Sk	eP	15.30	9.40	7	21
Km	-iP	02 45 04.97	13.17		58
Wk	-eP	06.45	13.22	214	70
Ar	-eP	07.55	14.32	71	47
Td	+eP	07.70	14.37	282	133
St	eP	11.89		58	87
Hb	eP	12.50	18.10	183	24
Kk	eP	12.67	19.34	61	78
In	-eP	16.5	23.53	144	82
Sk	+eP	17.80	25.08	110	65
Gz	eP	18.17	24.22	49	51
Is	-eP	21.33	28.12	68	91
Hd	-iP	03 08 26.80	2.52	107	25
Ar	+iP	28.85	3.44	34	10
Kk	-iP	30.77	5.45	134	28
Td	eP	31.07	5.44	27	15
St	+eP	36.84	8.77	21	24
Td	eP	03 31 05.12	3.04	19	6
Hd	e	03 54 28.43		9	3
Hd	-iP	03 56 08.65	2.21	99	16
Ar	+iP	10.65	3.43	28	9
Kk	-iP	12.77	5.32	35	18
Td	eP	15.50	2.37	18	7
St	-eP	18.90	9.11	9	23
Td	+eP	04 09 36.59	0.54	31	4
Hd	e	04 32 24.64		9	4
Ar	-eP	04 38 24.06	1.13	74	4
Td	eP	25.70	2.60	11	6
Ar	+iP	04 45 53.09	1.04	28	3
Sk	-eP	04 55 22.06		32	35
Hd	-iP	04 59 44.16	0.99	57	7
Ar	-eP	05 08 02.33	1.16	37	4
Kk	eP	05 12 17.33	4.48	16	10
Td	i	05 14 33.88		34	3
Sk	-iP	05 20 40.70	4.68	320	20
Kk	-iP	41.67	5.45	57	21
Hd	+eP	43.42	6.05	17	15
St	+iP	46.18	8.66	42	24
Ar	-iP	05 29 59.92	1.23	42	4
Td	eP	06 10 28.7	4.1	26	10
Is	eP	06 10 38.46		23	105
In	+eP	42.5		35	103
St	+eP	06 11 01.88		9	75
Is	+eP	06 20 06.68	10.35	12	25
Hd	eP	06 49 18.4		35	60
Td	eP	21.31		9	77
Hb	eP	07 12 22.90	7.70	77	27
In	eP	28.2	11.54	35	25
Is	eP	34.7	16.2	9	30
Ar	-eP	07 17 00.04	2.57	23	6
Wk	i	07 26 12.11		64	4
Wk	-eP	07 39 11.82	0.85	160	5
Km	+iP	12.20	1.82	*	7
Td	-iP	13.35	2.28	63	10
Ar	+eP	13.63	1.59	27	8
Ar	-eP	07 50 26.47	1.69	39	5
Td	+iP	26.90	1.98	29	5
Ar	+iP	08 25 49.99	0.81	41	3
Ar	+iP	08 39 26.00	0.79	39	3

August 18

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Wk	-iP	08 42 33.43	0.84	196*	4
Sk	-iP	09 06 17.37	3.26	164	17
Kk	-iP	21.43	6.02	47	21
St	-iP	25.74	8.85	42	38
Wk	+iP	09 21 55.83	1.18	762*	10
Td	-iP	56.53	1.75	171	c
Ar	+iP	56.54	1.42	372	(12)
Km	eP	57.80	1.73		10
Hd	+eP	59.73	3.66	24	18
Kk	eP	22 01.43	4.70	28	29
Sk	+eP	08.86	9.95	57	22
Hd	+iP	09 24 38.65	0.82	28	6
Kk	eP	42.58	3.38	16	9
Hd	eP	10 01 28.11	7.28	22	23
Kk	eP	31.71	9.77	37	17
Sk	-eP	34.25	11.20	4	26
Kk	eP	10 06 55.85	6.18	12	15
Kk	e	10 40 35.03		18	10
Hd	e	10 49 35.96		35	5
Sk	-iP	11 32 53.40	3.34	75	17
Kk	eP	58.67	7.02	18	16
Wk	eP	11 49 57.26	1.07	269	6
Ar	+iP	57.26	1.31	166	7
Ar	+eP	12 09 20.40	0.82	35	3
Hd	+iP	12 11 52.81	1.45	54	7
Ar	-eP	12 19 47.69	1.45	12*	(4)
Hd	eP	12 40 17.32	(7.74)	24	16
Ar	i	23.23		25	2
Ar	-eP	13 00 48.53	1.22	44	4
Hd	i	13 22 15.13		40	10
Km	eP	13 35 36.04	1.20		6
Wk	iS	37.00		146	5
Ar	-eP	37.58	2.25	16	5
Is	-eP	14 03 35.18	10.51	9	21
Hd	+eP	14 41 48.95	1.62	14	5
St	+iP	14 42 58.64	6.25	63	24
Kk	eP	59.20	6.87	191	28
Hd	+iP	43 00.65	8.07	45	24
Sk	+eP	02.35	10.10	61	25
Hb	-iP	09.46		61	12
Is	e	21.21		21	15
Ar	+eP	14 52 34.51	1.16	34	4
Hd	-iP	15 06 38.22	2.49	42	10
Ar	+iP	15 40 00.89	0.93	368	7
Hd	+eP	03.35	2.45	31	11
Kk	eP	05.24	3.70	20	23
Ar	+iP	15 44 30.91	0.89	64*	3
Sk	+eP	16 00 50.12	3.70	19	18
Kk	eP	16 05 50.53	3.66	32	9
Hd	-iP	17 01 36.40	2.59	92	18
Kk	-iP	40.56	4.79	28	17
Ar	e	41.60		37	(3)
Kk	+iP	17 23 24.05	6.33	564	42
St	+iP	24.51	6.29	211	27
Ar	+eP	25.27	7.17	39	18
Hd	+iP	25.45	7.51	173	24
Sk	+iP	26.68	8.51	164	34
Hb	-iP	27.78	9.08	90	32
In	eP	30.1	11.22	98	29
Is	eP	35.06	13.15	32	28
Hd	i	18 01 49.21		38	8
Hd	-eP	18 26 38.05	0.98	24	4
Ar	+iP	18 32 45.5	0.95	96	4
Hd	-eP	18 54 05.54	1.23	14	8
Hd	e	19 04 38.6		16	11
Kk	iP	19 07 51.06	1.93	49	5

August 18

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Ar	+iP	19 27 40.5	1.07	32	4
Wk	+iP	20 00 26.12	1.00	82	3
Wk	eP	20 17 57.39	0.81	100	5
Kk	eP	20 19 24.27	1.79	16	4
Is	e	20 20 56.57		20	20
Hd	-iP	20 25 24.99	0.90	183	7
Wk	iP	20 26 29.95	0.62		
Td	-iP	20 27 46.04	1.41	117	8
Km	+eP	46.14	1.80		7
Ar	-eP	46.42	1.54	35	5
Kk	eP	20 30 59.27	1.47	22	6
Td	i	20 35 00.13		61	41
Is	e	20 35 54.97		32	15
Hb	-iP	55.93		36	21
Kk	-eP	36 00.01		45	19
Hd	e	01.73		52	12
Ar	+iP	20 55 39.12	0.80	74	4
Kk	iP	21 20 03.36	2.65	53	21
In	-iP	21 45 42.8	6.54	279	38
Hb	iP	44.45	7.85	186	37
Is	-iP	45.15	8.07	32	28
Sk	-iP	46.46	9.73	68	35
Kk	-eP	47.25	10.01	71	39
Td	eP	48.90	11.73	32	35
Hd	-eP	51.06	13.09	48	24
Kk	eP	21 54 29.20	2.39	24	10
Kk	eP	21 58 23.45		10	30
Hd	-iP	22 05 19.16	0.94	87	5
Is	-iP	22 06 09.69	6.83	30	31
In	-iP	10.2	7.34	177	35
Hb	eP	12.57	9.42	21	38
Td	eP	22 19 54.04	1.26	36	5
In	-iP	22 34 53.2	7.41	39	21
Td	e	22 38 39.0		61	b
Ar	+iP	22 42 44.35	1.25	35	3
Km	e	22 44 03.75			5
Hb	eP	22 44 18.92	7.07	131	27
In	iP	24.1	11.07	76	30
Wk	-iP	23 19 34.18	1.44	55*	5
Km	eS	35.13			7
Td	+eP	36.08	3.08	16	9
Sk	-eP	23 25 53.49		32	19
Is	e	56.72		53	30
Kk	e	57.49		24	17
In	e	58.0		51	35
Hd	e	59.4		67	11
Hb	eP	59.99		20	16
Hd	+iP	23 59 04.80	1.32	38	4

August 19

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Sk	-eP	00 01 22.30		32	38
In	eP	23.2		39	73
Is	eP	24.3		14	48
Hb	eP	27.14		32	113
Is	e	00 03 47.9		18	13
In	i	48.3		43	15
Td	-iP	00 05 15.64	1.04	247	4
Td	+iP	00 18 51.94	1.17	16*	3
Td	+eP	00 19 20.61	1.08	7	4
Hd	+eP	00 53 01.22	7.77	28	22
Kk	eP	02.91	9.75	10	19
Ar	+eP	03.09	10.42	16	19
Sk	-eP	05.19	8.43	14	22
Td	+eP	05.45	11.41	20	21
Hd	-iP	01 12 34.69	1.73	14	5

August 19

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Hd	e	01 13 52.74		22	4
Wk	-eP	01 25 13.66	1.24	76	5
Td	-iP	13.74	1.42	230	8
Km	-iP	14.20	1.45		7
Ar	e	17.56		18	(4)
Hd	+iP	01 29 21.63	1.20	71	7
Kk	eP	24.50	2.90	20	8
Hd	+eP	01 37 54.75		7	8
Hb	eP	01 40 34.36	7.85	32	16
In	+iP	35.8	5.00	138	18
Is	+eP	39.08	8.75	21	17
Sk	-eP	43.82	26.50	7	21
Ar	-eP	01 44 20.62	1.21	19	5
Td	-iP	51.12	1.79	30	5
Sk	+eP	01 50 20.73		96	18
Is	eP	01 55 10.7		57	38
In	eP	12.6		47	44
Hb	e	14.01		75	40
Td	e	19.44		54	36
Kk	-e	19.87		61	23
Hd	eP	21.20		69	30
Km	+iP	02 09 36.80	0.95	*	6
Td	-eP	37.21	1.85	7	5
Ar	-eP	02 11 11.64	0.87	106	5
Hd	eP	02 13 53.45		17	4
Hd	-iP	02 22 25.80	1.36	66	6
Kk	-eP	27.89	2.68	28	9
Wk	+iP	02 30 52.94	0.91	123*	4
Ar	+iP	53.49	1.16	42	4
Td	eP	54.4	2.0	21	5
Td	iP	02 46 04.30	1.10	132	7
Ar	-iP	04.5	1.45	39	4
Wk	i	06.73		55	3
Td	+iP	02 48 27.46	1.26	27*	4
Td	-eP	02 50 20.99	1.83	16	4
Hd	+eP	03 03 59.87	5.17	31	11
Sk	+eP	04 02.38	7.41	11	17
Td	e	03 20 25.62		38	4
Td	+iP	03 29 38.70	1.57	96	3
Ar	+iP	03 43 57.20	1.07	28	3
Hd	i	03 44 01.15		17	4
In	+eP	03 46 21.6	6.19	78	17
Wk	-eP	04 02 06.95	1.03	255	5
Td	+iP	07.06	1.21	695	6
Km	-iP	07.95	2.42		7
Ar	+eP	08.27	1.99	32	5
Hd	-eP	04 08 07.95	0.75	24	5
St	+eP	04 12 52.61	6.92	26	23
Hb	-iP	53.88	7.92	21	15
Td	+iP	53.91		36	16
Kk	+iP	54.37	8.20	47	19
Hd	+iP	55.91	9.70	36*	17
Km	+iP	04 13 26.05	1.35	*	4
Wk	e	26.72		46	3
Td	eP	04 14 25.89	1.42	150	5
Td	+iP	04 25 11.51	1.18	166	6
Ar	e	15.68		14	2
Td	eP	04 29 03.16	1.03	21	3
Kk	+iP	04 32 10.45	7.33	47	15
Is	-iP	04 38 41.11	4.53	36	15
In	-iP	43.7	5.91	82	21
St	-eP	50.58	12.56	16	24
Hd	e	04 40 55.77		14	9
Td	i	05 13 51.55		32	3
Ar	-eP	05 40 07.67	1.04	25	3
Ar	-iP	05 40 29.10	1.12	(25)	3

August 19

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Wk	+iP	05 45 02.82	1.04	27	3
Td	eP	05 50 21.10	1.10	203	4
Wk	e	22.02		27	3
Hd	+iP	05 50 52.98	2.07	28	8
Td	+iP	06 14 39.71	1.26	30	3
Hd	+iP	06 19 22.19	0.92	17	5
Ar	-eP	06 29 36.39	1.65	27	4
Td	+eP	07 29 40.08	1.12	125	3
Sk	-eP	08 13 33.03	2.70	100	13
Kk	eP	36.40	5.83	85	19
Td	+iP	08 28 32.45	1.10	411	9
Wk	-iP	33.30	1.69	141	6
Km	i	34.29			8
Wk	+iP	09 04 17.05	1.39	283	10
Km	-iP	17.40	1.50		10
Ar	+iP	18.65	2.40	34	10
Kk	eP	22.69	5.23	4	23
Hd	e	09 10 50.79		28	6
Ar	+iP	09 20 17.98	1.11	21	3
Ar	+iP	09 39 56.91	2.21	14	6
Km	-iP	55.33	0.77		6
Kk	-iP	09 50 11.96	2.38	57*	8
Ar	+iP	10 04 30.36	0.97	1894	22
Wk	+iP	31.75	1.94	87	7
Hd	+iP	32.58	2.44	126	30
Km	eP	33.40			b
Kk	-eP	34.93	3.83	61	32
St	+eP	38.74	6.69	60	19
Sk	-eP	42.03	9.03	39	29
Wk	-iP	10 08 42.94	0.92	119	3
Ar	+iP	43.6	1.41	37*	6
Ar	i	10 16 21.87		35	2
Is	+eP	10 33 07.44		5	21
Hd	-iP	10 40 12.48	2.18	54	12
Kk	-iP	16.65	4.64	28*	15
Ar	e	17.73		7	4
Wk	e	10 49 04.50		41	3
Hd	e	10 50 29.5		33	6
Km	i	10 51 35.1			a
Hd	+iP	10 58 16.05	1.28	211	9
Kk	-iP	20.44	4.16	16*	14
Kk	-eP	11 21 25.17	1.48	24	4
Td	-eP	11 29 49.01	0.92	28	3
Wk	e	11 35 44.45		114	4
Wk	+eP	11 51 20.86	1.04	223	6
Ar	+eP	21.76	1.64	35	6
Td	-iP	22.36	2.04	116	7
Kk	e	11 59 48.86		16	35
Is	-eP	12 18 32.5	22.4	21	63
St	+iP	44.53	31.45	40	59
Sk	+eP	45.86		39	19
Kk	eP	48.23	34.04	18	71
Hd	e	52.0		21	10
Td	eP	12 36 28.09	1.45	103	4
Wk	+iP	12 40 21.78	0.78	698*	5
Ar	+iP	22.94	1.66	42	7
Td	-iP	23.22	2.34	226	11
Wk	+iP	12 52 23.18	0.62	360*	4
Km	-eP	24.18	1.05		5
Td	-iP	24.73	2.08	160	9
Ar	-eP	24.79	1.31	32	5
Wk	+iP	13 20 43.83	0.91	68	3
In	eP	13 23 02.3	15.3	51	35
Td	+iP	13 44 34.76	1.42	36	5
In	-iP	13 58 56.7	11.7	35	27

August 19

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Hd	-eP	14 42 10.54		28	6
Hd	e	14 58 27.20		10	3
Hd	-iP	14 58 28.24	2.51	540*	28
Ar	-iP	30.34	3.86	108	17
Kk	-iP	32.31	4.91	205	33
Td	-iP	32.51	5.25	85	13
Sk	+eP	37.51	8.36	178	18
Ar	+iP	15 27 38.15	0.97	19	3
Wk	-eP	15 31 40.04	1.21	96	5
Ar	-eP	40.86	1.87	44	6
Ar	-eP	15 41 18.56	1.14	28	4
Hd	+iP	16 10 43.21	1.24	54*	5
Kk	-iP	16 12 41.97	5.40	41	18
Hd	eP	42.7	(6.1)	9	13
Hd	+eP	16 34 04.50	9.15	17	18
Kk	eP	08.64	11.47	8	22
Wk	+iP	16 40 04.23	0.92	146	5
Ar	+iP	04.35	1.06	170	6
Td	+iP	05.23	1.80	203	7
Wk	e	17 01 06.98		50	3
Ar	-iP	17 04 52.29	1.57	16	4
Td	-iP	17 27 52.64	0.85	360	7
Ar	-eP	53.29	1.55	140	6
Wk	i	54.35		59	3
Hd	-iP	17 34 22.50	2.36	195	26
Ar	-iP	24.53	3.79	76	14
Kk	iP	26.45	5.24	134*	38
Td	eP	26.6	5.3	52	19
Sk	-iP	31.84	8.54	32	22
Hd	-eP	17 43 41.61	0.93	16	5
Hd	+iP	17 44 05.01	2.33	21	8
Hd	+eP	17 51 21.82	6.99	14	17
Ar	i	29.27		46	2
Kk	e	32.88		12	19
Hd	+eP	17 54 21.85		43	11
Hd	+iP	17 54 32.86		43	10
Ar	+eP	17 55 51.71	0.78	41	5
Td	eP	53.00	1.93	34	5
Hd	+eP	54.25	2.76	35	8
Hd	+iP	17 59 52.49	6.22	80	23
Kk	+iP	53.51	6.87	132	44
Sk	+eP	54.14	6.98	75	24
Ar	+eP	55.11	8.13	44	18
Td	eP	56.85	9.01	20	18
Hd	iP	18 00 19.98	1.54	21	6
Kk	-iP	18 21 48.68	2.81	102	(21)
Sk	-iP	49.83	4.04	153	17
Hd	-iP	51.09	4.63	50*	17
Ar	-iP	52.78	5.86	11	14
Ar	+eP	18 42 51.21	1.05	14	3
Hd	-iP	18 42 57.51	2.29	21	5
Wk	+iP	18 55 37.98	0.78	12180	70
Td	-iP	38.54	1.61	>1139	125
Km	-iP	38.82			60
Ar	+iP	39.43	2.15	2673*	e
Hd	+iP	42.61	4.41	827	98
Kk	-iP	43.92	5.00	861	109
Hb	iP	50.	(9.80)	576	(100)
Sk	+eP	50.99	10.15	520	69
Is	-eP	56 00.25	18.74	324	93
Hd	eP	19 11 26.05	2.03	22	6
Kk	eP	26.20	2.38	12	6
Wk	+iP	19 11 33.65	0.83	1395	19
Td	-iP	34.21	1.38	801	30
Km	-iP	34.45	1.22		18
Ar	+iP	35.1	1.7	205	20
Hd	eP	38.40	4.35	69	29
Kk	eP	39.62	4.95	108	37
Sk	+eP	46.87	11.02	46	23

August 19

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Hd	-eP	19 29 41.86		17	16
Wk	-iP	19 34 14.15	0.90	347	6
Td	-iP	14.74	1.21	513	12
Km	-iP	15.00	1.20		8
Ar	-iP	(15.7)	(0.6)	(79)	(6)
Hd	+iP	18.83	4.5	59	13
Kk	eP	20.09	5.20	18	18
Kk	+iP	19 51 43.95	4.82	57	43
Hd	+iP	44.81	5.90	154	18
Ar	-eP	45.43	6.49	21	12
Td	eP	45.76	6.20	16	13
Sk	-iP	46.15	6.84	153	22
Td	iS	19 55 23.83		93	3
Hd	+iP	20 05 23.02	1.83	14	4
Td	+iP	20 10 09.19	1.39	146	5
Ar	+eP	20 35 55.55	1.06	48	4
Ar	+eP	20 46 42.87	1.03	35	3
Hd	+iP	20 52 45.53	1.73	59*	6
Kk	iP	48.02	2.99	49	7
Wk	+iP	20 54 58.29	1.74	565	10
Td	-iP	58.40	1.65	419	15
Km	-iP	58.48	1.50		8
Ar	+iP	59.87	2.56	46	9
Hd	eP	55 02.53		7	20
Td	eP	20 59 21.80	1.14	28	5
Td	eP	21 07 43.74	1.45	118	8
Wk	i	44.12		59	3
Km	-iP	44.17	1.15		6
Td	eP	21 25 54.24	2.61	11	8
Hd	i	21 39 53.13		28	5
Td	+eP	21 43 47.39	1.34	32	4
Is	+eP	22 03 30.39	11.09	117	78
Hb	eP	40.91	19.95	25	76
Kk	eP	50.	28.	16	68
Hd	e	57.91		7	21
Wk	+eP	22 15 51.72	0.97	196	5
Td	-iP	53.11	2.77	106	11
Td	+iP	22 29 00.30	1.11	398	c
Wk	-iP	00.65	1.26	306*	7
Km	-iP	01.59	1.68	*	11
Hd	(eP)	05.71	(3.82)	14	16
Kk	eP	05.84	4.78	12	22
Hd	e	22 37 11.74		28	3
Td	eP	22 38 02.15	2.71	13	11
Wk	e	02.20		18	3
Td	+iP	22 38 51.55	0.61	154	4
Td	-eP	22 39 09.89	1.69	28	6
Td	-eP	22 50 17.11	2.19	28	6
Wk	eP	22 54 46.64	0.75	36	3
Wk	e	22 56 51.34		36	4
Td	+iP	51.66	1.33	31	5
Td	eP	23 02 19.80	32.50	10	51
Kk	e	20.02		32	12
Kk	e	23 02 53.69		4	8
Kk	+iP	23 08 56.81	2.45	335	33
Hd	-iP	59.08	4.05	95	14
Sk	+eP	59.45	4.69	85	29
Ar	+iP	09 00.47	5.35	14	11
Td	-iP	00.69	5.15	47	21
Hd	-iP	23 26 52.75	4.05	3*	7
Hd	-iP	23 30 38.09	3.97	52	16
Ar	-eP	40.49	5.82	11	11
Kk	-eP	40.80	5.88	35	18
Td	eP	42.35	7.83	16	19
Sk	-eP	43.31	8.73	39	18
Ar	+e	23 41 36.99	1.30	11	(4)

August 19

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Hd	-iP	23 45 31.02	5.92	841*	56
Kk	+eP	31.39	6.20	459	55
Sk	+iP	31.56	6.44	634	51
Ar	-iP	33.34	7.76	186	28
Td	-iP	34.46	8.89	207	66
Wk	-iP	35.10	9.23	201	23
Km	-iP	36.40	10.00		40
Hb	+eP	42.57	15.10	34*	44
Is	eP	50.23	20.30	25	42
Ar	+eP	23 55 09.91	1.06	34	4
Td	-iP	10.29	1.54	68	10
Td	eP	23 55 34.90	1.44	8	b

August 20

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Td	+eP	00 20 58.08	1.30	11	3
Td	+iP	00 34 47.20	1.61	13	4
Td	-iP	00 42 11.15	1.19	55	7
Hd	-eP	00 57 36.79	2.74	7	6
Wk	+iP	01 00 57.11	0.99	114*	3
Ar	-iP	57.85	1.42	37	5
Td	-eP	58.59	2.20	56	10
Kk	eP	01 01 49.26	22.19	430	127
Td	eP	01 03 27.77	1.30	165	8
Wk	e	28.64		32	3
Td	e	01 20 03.75		20	3
Td	+iP	01 24 58.96	1.25	230	12
Ar	-iP	25 00.71	2.26	12	5
Wk	e	00.96		41	3
Sk	-eP	01 31 44.10	18.86	434	133
Is	-iP	47.00	22.30	231	139
Hb	-iP	51.27	23.78	272*	152
Hd	+eP	52.6	25.1	131	87
Td	-eP	52.90	25.61	104	207
Ar	-eP	53.6	25.4	53	(60)
Wk	+eP	54.71	26.2	41	53
Is	-iP	01 40 22.41	6.81	73	46
Hb	-iP	25.37	9.28	150	51
Td	-eP	37.04	17.3	13	84
Kk	eP	39.36	18.80	14	44
Sk	+eP	41.32	19.53	43	37
Hd	+eP	42.82		14	22
Td	+iP	01 51 16.54	0.70	65	5
Is	-eP	01 51 42.3	12.1	4	25
Ar	+eP	01 52 45.92	1.01	9	3
Kk	-iP	02 01 18.64	3.37	45	16
Sk	+eP	18.97	4.17	28	9
Td	eP	22.46	6.23	13	13
Hd	+eP	23.18	6.75	12*	11
Ar	+eP	02 01 21.58	0.80	18	2
Is	eP	02 12 34.1	14.1	7	22
Hd	e	02 12 55.85		5	11
Hd	-eP	02 18 05.55	0.96	3	5
Kk	eP	02 19 43.76	3.70	10	9
Td	+iP	02 21 07.87	1.49	44	6
Td	i	02 24 32.91		16	4
Ar	+iP	02 37 01.10	0.92	50	4
Td	+iP	02.39	1.91	21	8
Td	eP	02 53 24.46	1.55	45	4
Td	+eP	03 13 16.40	0.89	134	5
Is	e	03 21 53.0		23	12
Td	eP	03 49 59.62	2.54	12	5
Td	i	04 02 23.87		14	3
Hd	-iP	04 05 22.85	2.46	28	12
Kk	eP	26.95	5.27	12	14
Td	+iP	04 20 27.87	1.08	247	6
Hd	+eP	04 38 21.20	1.45	43	7

August 20

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Td	+iP	04 39 52.11	1.24	202	60
Ar	+eP	54.04	2.70	9	6
Td	+iP	04 42 18.93	1.22	79	4
Sk	+eP	04 48 40.94		381	201
Is	eP	44.2		397	283
Kk	+eP	44.44		296	272
Hd	eP	46.2		388	255
Td	-iP	46.72		287	319
Hb	eP	46.90	61.45	383	295
Ar	+eP	47.00		202	152
Wk	eP	47.98		269	170
Km	eP	48.91			146
Wk	eS	04 51 19.21		55	3
Td	eP	21.7	1.3	83	6
Ar	+iP	05 01 23.07	1.96	18	5
Wk	e	23.07		27	2
Td	eP	05 11 22.55	1.55	29	4
Td	+eP	05 15 23.90	1.33	26	4
Td	+iP	05 16 09.28	1.17	114	5
Td	+iP	05 17 51.27	0.56	15	3
Sk	+eP	05 18 37.32		7	29
Kk	eP	42.93	12.45	10	39
Hd	eP	44.05		21	38
Km	i	05 23 52.62			4
Hd	+iP	05 40 32.96	1.64	67	7
Kk	-iP	35.31	2.92	16	5
Ar	+iP	05 53 36.19	0.78	25	3
Td	eP	06 03 46.07	1.25	22	4
Td	eP	06 04 25.84	1.34	46	4
Ar	+iP	06 14 04.10	1.06	71	9
Hd	+iP	05.50	1.75	40	12
Td	-eP	06.32	2.80	28	14
Kk	eP	09.14	3.87	24	14
Km	-iP	06 37 55.55	1.96		6
Ar	+iP	07 08 04.57	1.00	30	3
Hd	+iP	08 17 19.17	1.39	48	5
Kk	-iP	08 21 22.12	1.70	179	18
Hd	-iP	23.02	1.95	28	10
Wk	e	08 25 06.26		78	4
Ar	+iP	08 54 55.47		50*	2
Wk	+iP	08 55 00.05	0.87	246*	8
Km	-iP	00.90	1.32	*	5
Ar	+iP	01.52	2.23	110*	7
Kk	+eP	11.18		12	11
Td	-eP	08 56 53.88	0.88	101	5
Kk	-iP	08 59 09.23	1.59	9740	75
Hd	-iP	10.41	3.11	>1073*	97
Ar	-iP	10.99	2.87	1037	50
Td	+iP	11.12	3.06	457	86
Wk	-iP	12.48	3.72	1195	52
Km	-iP	14.18	5.17		22
Sk	-iP	16.15	6.45	538	79
Hb	eP	21.74	9.67	342	89
Is	+eP	30.46	17.20	121	58
Td	+iP	09 13 02.32	1.12	546	6
Ar	-eP	04.05		9	7
Wk	e	04.27		46	4
Wk	+iP	09 15 20.01	0.95	575	8
Km	-eP	20.57	0.98		8
Ar	+iP	21.30	1.75	89	10
Td	-iP	21.43	2.56	130	12
Sk	-eP	09 31 14.18	4.14	36	19
Kk	eP	16.12	4.23	10	10
Ar	-iP	09 44 10.83	0.80	37*	4
Ar	-eP	10 11 36.39	1.24	25	4
Hd	+iP	10 21 39.98	0.84	16	4
Ar	-eP	10 25 35.46	11.04	28	30

(to be cottinued)

August 20

(continued)

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Kk	i	10 25 42.06		81	21
Sk	-eP	47.55		39	36
Ar	+iP	10 38 04.86	1.18	69	4
Ar	-iP	11 26 11.95	1.10	23	3
Sk	+eP	11 33 24.49		53	27
Is	e	28.18		21	22
Td	eP	12 29 16.69	0.93	75	4
Ar	+eP	13 15 35.82	1.08	35	3
Ar	+iP	13 17 27.01	0.95	205	5
Td	+iP	13 19 04.05	1.12	1274	26
Wk	-iP	04.37	1.25	1523	14
Ar	+iP	04.7	2.20	542	22
Km	-iP	05.24	1.88	*	12
Hd	+iP	08.84	4.61	62	30
Kk	eP	09.62	4.80	53	32
Sk	+eP	16.93	9.18	53	23
Is	+eP	26.69	(17.6)	12	28
Kk	eP	13 20 30.81	5.58	12	13
Hd	+eP	13 33 51.2	1.43	24	4
Hd	+iP	13 37 37.59	0.79	118	6
Kk	eP	40.93	3.45	4	8
Ar	+iP	13 51 11.75	0.87	6195	38
Wk	+eP	13.25	1.56	246	24
Td	-iP	13.49	2.08	555	36
Hd	+iP	14.16	2.52	334	37
Km	-iP	14.65	2.80		13
Kk	-iP	16.80	4.08	240	45
Sk	-iP	22.86	9.73	139	34
Hb	eP	26.78	12.44	36	30
Is	+eP	36.82	19.49	16	36
Wk	+iP	14 27 23.47	1.41	643	7
Km	+iP	23.81	1.45	*	7
Ar	-iP	23.82	1.92	103	14
Td	eP	25.00	2.85	153	15
Hd	eP	26.48	3.56	42	18
Kk	eP	29.45		26	24
Ar	-iP	14 36 41.86	1.23	41	5
Ar	-eP	14 36 49.94	1.45	16	5
Td	+iP	14 39 49.30	1.04	299	11
Km	-iP	50.14	1.60		7
Wk	iS	50.29		433	4
Ar	+iP	50.55	1.91	53	5
Ar	-iP	14 44 47.81	1.26	56	4
Ar	+eP	14 48 18.98	1.16	19	3
Sk	-eP	15 01 53.19		196	408
Ar	+eP	54.93		211	330
Kk	eP	55.19		284	(360)
Hd	eP	56.1		176	g
Td	eP	57.7		164	480
Km	eP	58.51			320
Wk	eP	58.72		173	360
Hb	eP	02 01.55		243	(600)
In	-eP	01.6		460	645
Is	-eP	02.31		411	412
Gz	-eP	06.80		843	(420)
Ar	+iP	15 10 58.91	0.85	101	5
Kk	-iP	15 21 53.01	4.95	102*	19
Sk	+eP	53.03	5.29	107	18
Hd	-iP	54.32	5.81	48*	15
Td	-eP	15 29 42.55	0.50	158	a
Kk	+i	15 52 25.39		41	4
Ar	+iP	16 27 36.77	1.19	94	4
Hd	-iP	16 53 32.9	2.4	28	6
Ar	+eP	(17 11 30.52)	1.09	21	3
Ar	+iP	17 17 45.16	0.91	85	3
Km	eP	17 25 05.26	1.87		5
Ar	-iP	17 36 36.80	2.70	25	7
In	e	17 37 31.8		31	98
Is	e	32.5		23	45

August 20

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Hd	+iP	17 37 49.4	1.0	175	20
Kk	-iP	53.37	3.33	71	20
Td	eP	55.34	2.24	34	11
Km	+iP	17 46 02.03	1.88		6
Wk	e	17 48 13.89		360	6
Td	+iP	14.05	1.38	287	5
Ar	-eP	15.06	1.90	14	5
Hd	+iP	17 50 15.41	1.20	55	13
Sk	-eP	18 08 50.56	3.63	19	14
Is	+eP	18 20 36.12	(9.5)	4	20
Ar	+eP	18 23 12.40	1.53	73	10
Hd	+iP	13.04	2.07	334	21
Td	+iP	13.40	2.33	80	b
Kk	eP	14.72	2.95	69	28
Hd	+iP	18 31 53.94	1.82	14	6
Td	eP	19 02 31.78		30	160
Is	-eP	32.72	(35.8)	78	110
Hb	eP	33.01		41	157
In	+eP	33.5		76	237
Kk	-iP	19 21 12.89	2.12	463	20
Hd	-iP	15.60	4.11	73	18
Sk	+eP	16.05	4.73	64	24
Td	eP	16.85	4.75	59	8
Ar	+eP	17.17	4.45	7	10
Hd	-iP	19 37 07.33	1.69	80*	10
Ar	+eP	07.94	2.17	28	6
Kk	eP	08.38	2.32	89	15
Wk	-iP	19 41 09.65	1.15	255	7
Td	+iP	09.70	1.25	710	10
Km	-iP	10.25	1.44	*	7
Ar	-eP	11.10	2.21	37	11
Ar	+iP	19 52 12.27		230*	6
Td	+iP	19 58 29.34	1.00	57	4
Ar	+iP	20 16 52.94	1.15	837	14
Hd	+iP	54.88	2.43	33	22
Td	-eP	55.06	2.75	55	22
Td	-iP	21 11 28.73	1.16	38	5
Hd	eP	21 19 34.5		81	78
Td	eP	37.15	29.50	31	85
Kk	eP	37.37	29.90	30	64
Sk	+eP	38.97		28	83
Is	-eP	55.80		16	78
Ar	e	21 20 03.46		25	33
Hd	eP	21 23 29.88		71	65
Td	eP	32.91	29.35	34	118
Kk	eP	34.27		20	68
Sk	-eP	34.90		28	77
Is	eP	51.3		11	81
Ar	e	59.05		16	30
Td	iS	21 24 45.78		37	b
Wk	+iP	21 26 59.90	0.84	59*	4
Td	+eP	27 01.35	1.98	29	6
Kk	iP	21 31 49.85	1.55	205	6
Hd	+iP	21 32 11.91	0.82	31	5
Td	+eP	21 40 57.50	1.23	6	4
Hd	+iP	21 43 28.64	1.42	69	4
Td	+iP	21 44 41.18	1.18	46	6
Hd	eP	21 48 15.04	8.59	26	18
Hd	eP	21 52 24.97	5.30	24	16
Kk	eP	25.68	5.75	20	16
Sk	-eP	26.92	7.13	43	20
St	+eP	31.68	9.16	7	20
In	+eP	22 07 13.5	7.41	39	28
Kk	+iP	22 07 41.51	2.82	65	9
Hd	-eP	43.39	3.95	24	12
Sk	+eP	43.60	3.96	21	17
St	+eP	50.04	6.37	11	21
Hd	+iP	22 11 19.28	1.31	26	4

August 20

St.	Pha.	Timee h m s	S-P s	Am μ kine	F-P s
Wk	+iP	22 35 00.76	0.90	141*	4
Km	+iP	01.35	1.05		6
Ar	-eP	02.02	1.76	19	6
Td	+iP	02.26	1.94	55	8
Hd	e	22 41 25.99		29	9
Kk	+iP	22 42 07.28	2.77	79	8
Sk	+eP	09.04	4.28	21	14
Hd	-iP	09.15	4.00	31	11
Td	-iP	23 00 08.82	1.72	21	6
Kk	+iP	23 19 56.21	2.06	300	17
Td	-iP	56.42	2.28	66	21
Hd	-iP	57.46	(2.97)	80	18
Sk	-iP	20 03.29	6.76	25	21
St	+eP	03.58		33	11
Hd	-iP	23 22 28.05	2.18	284	26
Ar	-eP	30.14	3.48	65	10
Kk	-iP	32.05	4.67	65	17
Td	-iP	32.39	5.15	60	24
Wk	eS	36.74		23	5
Sk	-eP	37.01	8.46	53	25
St	-iP	38.15	9.04	16	25
Td	iS	23 32 45.64		20	4
Ar	-eP	23 47 47.01	0.98	99	3

August 21

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Hd	-iP	00 01 27.47	(2.43)	99	19
Ar	+eP	30.49	3.65	14	8
Td	-eP	31.66	4.94	13	16
Td	e	00 04 25.51		15	89
Ar	-iP	00 12 40.65	1.12	154	5
Hd	+iP	41.71	1.90	93	18
Td	-iP	42.84	3.12	56	15
Hd	-iP	00 25 39.00	(2.30)	28	5
Wk	+iP	00 32 33.90	0.96	164	4
Ar	+iP	33.97	1.19	202*	6
Td	-iP	34.85	1.91	119	11
Wk	+eP	01 08 08.47	0.95	41	3
Td	-iP	09.89	1.97	15	6
Hd	-eP	01 09 22.95	1.48	12	5
Td	-iP	01 27 10.46	1.16	32	6
Td	-iP	01 37 05.80	1.16	102	4
Wk	eS	06.76		27	2
Td	+eP	01 45 34.57	1.67	76	5
Wk	eS	35.81		14	2
Hd	+iP	01 48 04.73	1.44	35	5
Wk	+iP	02 01 48.36	1.20	483	8
Td	-iP	48.44	1.24	562	19
Km	-iP	48.97	1.50		10
Ar	+iP	49.78	2.26	58	9
Hd	+eP	52.94		16	20
Kk	-iP	02 37 30.27	1.81	154	8
Hd	-iP	02 38 01.21	2.82	24	7
Td	eP	03.29	2.02	12	5
Td	eP	02 45 54.86	0.69	780	5
Td	iP	02 54 15.86	6.29	63	14
Hd	(eP)	03 02 26.7	7.5	14	14
Hd	e	03 11 13.34		7	3
Kk	-iP	03 34 33.88	2.91	106	6
Hd	-eP	03 34 41.72	1.20	14	5
Hd	-eP	04 00 18.95	2.46	40	8
Wk	e	04 02 09.23		14	3
Wk	e	04 04 29.31		41	2
Td	eP	04 05 56.9	1.2	130	5
Td	-iP	04 07 22.16	1.57	172	6
Ar	+iP	04 16 29.07	0.87	892	11

(to be continued)

August 21

(continued)

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
Wk	eP	04 16 30.29	1.57	155	7
Td	-iP	30.87	2.13	96	18
Hd	-iP	31.61	2.73	24	21
Td	+iP	04 16 56.65	0.57	20	4
Hd	-eP	04 30 33.12	1.47	36	5
Td	+eP	04 37 20.58	1.18	59	5
Km	e	05 17 02.02			5
Km	i	05 17 57.62			a
Td	+iP	05 25 15.98	1.24	49	4
Hd	-iP	05 36 29.47	2.26	66	12
Td	eP	36.56	2.05	10	6
Sk	-eP	42.36	4.54	4	17
Hd	+iP	05 37 57.72	18.0	131	33
Ar	e	58.3		12	20
Wk	eP	58.84	19.14	87	83
Td	eP	38 00.4		23	37
Kk	e	00.92		28	8
Sk	+eP	03.87		19	49
Td	+iP	05 49 11.67	1.51	109	7
Wk	i	12.54		41	4
Hd	e	25.57		28	4
Kk	-iP	06 30 14.02	1.60	41	6
Sk	-eP	06 30 54.42		14	34
In	e	06 33 12.4		18	187
Kk	-iP	06 50 47.57	1.63	958	28
Hd	-iP	48.63	2.82	284	27
Ar	-eP	49.16	2.88	73	12
Td	iP	49.32	2.81	91	a
Hd	+iP	07 01 58.47	1.01	87	10
Td	+iP	07 28 16.58	1.11	180	6
Td	+iP	07 43 16.26	1.92	9	6
Hd	-eP	07 45 34.70	1.67	26	4
St	+iP	07 50 53.09	5.29	86	26
Td	+iP	07 51 05.04	1.59	26	b
Ar	+iP	07 59 08.33	0.87	657	8
Td	-eP	10.39	2.24	78	13
Hd	-eP	10.83	2.34	26	11
Sk	-eP	20.89	9.08	32	28
Td	+iP	08 08 26.99	0.82	27	3
Ar	+iP	08 13 25.83	0.87	71	3
Td	+iP	08 34 12.09	1.19	201	6
Td	+eP	08 50 27.37	1.22	43	4
Ar	-iP	09 06 31.41	1.91	64	10
Td	+iP	31.91	2.18	112	13
Hd	+iP	32.13	2.24	522	15
Kk	-iP	32.79	2.53	118	25
Td	i	10 18 00.84		62	3
Hd	-iP	10 33 49.00	2.39	157	10
Kk	-iP	53.03	4.92	53	16
Td	eP	53.26	5.10	21	11
Sk	-eP	58.34	8.65	68	27
Km	-iP	10 34 38.54	1.32		5
Td	-iP	38.82	1.66	125	6
Wk	i	39.86		68	4
Ar	-iP	10 38 51.06	3.92	16	6
Td	-iP	10 40 26.71	1.37	347	8
Wk	eP	26.72	1.15	219	5
Km	-iP	27.29	1.45		5
Ar	e	30.09		7	4
Ar	+iP	11 08 11.70	0.93	112*	3
Ar	+iP	11 15 07.10	1.62	46	5
Hd	-eP	08.8	2.1	33	7
Td	eP	09.00	3.1	16	7
Hd	-iP	11 27 02.54	1.30	47*	5
Kk	-iP	04.46	2.56	37	7

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
August 21					
Sk	+eP	11 36 42.24	5.13	61	24
Kk	+eP	46.39	7.15	49	19
Td	+eP	50.57	11.06	12	17
St	-eP	56.10	11.18	11	34
Hd	+iP	11 52 48.27	0.86	157	5
Td	-eP	12 35 55.19	1.77	12	6
Ar	+iP	12 42 47.72	0.99	96	3
Ar	-eP	13 06 17.46	1.63	53	4
Ar	+eP	13 11 37.22	1.16	23	3
Td	iS	13 26 20.18		55	a
Wk	-iP	13 34 46.78	1.46	378	20
Ar	+iP	46.93	1.55	809	16
Km	+eP	48.37	2.19		9
Td	-iP	49.23	3.15	263	27
Hd	+eP	50.63	3.18	99	23
Kk	eP	53.06	5.56	79	25
Sk	-eP	35 00.22	10.37	36	28
Ar	+eP	13 48 47.41	1.50	32	4
Wk	+iP	13 51 39.37	0.81	87	4
Hb	eP	13 53 41.94	12.99	20	44
Td	i	14 36 27.84		16	2
Ar	+iP	15 54 45.54	1.17	80	4
Kk	+iP	16 33 23.50	5.29	185	24
Sk	-eP	24.94	6.64	39	22
Hd	+iP	25.76	7.19	33*	13
Wk	-iP	16 44 58.83	0.93	1350	16
Td	-iP	59.29	1.21	960	28
Km	-iP	59.58	1.20		14
Ar	+iP	45 00.46	2.08	248	17
Hd	+iP	03.65	4.58	99	20
Kk	eP	04.58	5.33	55	28
St	+iP	05.64	5.98	55	33
Sk	+eP	12.01	9.93	43	27
Km	+iP	17 07 53.05	2.20		6
Wk	eP	54.28	2.71	78	5
Hd	-iP	17 08 39.86	2.39	252	21
Ar	-eP	40.43	2.86	32	10
Td	-iP	42.79	4.27	93	15
Kk	-iP	44.34	4.81	219*	34
Wk	e	45.26		64	5
Sk	-eP	50.17	7.80	153	29
St	i	57.44		55	18
Hd	-eP	17 09 22.19	1.99	69	6
Kk	eP	22.88	2.25	53	7
Wk	e	17 59 40.56		105	3
Hd	i	18 06 58.77		29	3
Ar	-eP	18 19 00.86	0.97	83	4
Ar	+iP	18 21 49.52	1.12	28	3
Hd	+iP	18 27 26.83	(1.9)	73*	5
Ar	+iP	18 33 43.95	0.94	135	4
Td	iP	45.16	2.28	39	6
Wk	-iP	19 26 56.56	1.70	128*	6
Ar	-eP	57.74	2.77	65	7
Ar	-eP	20 17 21.43	0.82	41	3
Wk	+iP	21 42 42.88	0.85	251	5
Km	e	43.45			7
Td	-eP	44.20	2.05	57	6
Ar	-eP	44.40	2.03	7	7
Hd	e	22 03 06.11		29	5
Kk	+iP	07.67	1.62	24	3
Td	-eP	22 13 17.00	1.16	198	4
Wk	i	18.02		36	3
Wk	i	22 16 57.17		41	4
Hd	-iP	22 26 14.58	0.98	1066	13
Ar	+iP	16.61	2.19	71	8
Kk	-iP	17.75	2.93	166*	14
Td	-eP	18.23	3.45	126	14
St	-iP	23.28	7.63	56	22
Sk	-eP	24.36	7.34	75	27

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
August 21					
Kk	-iP	22 26 32.05	1.57	256	11
Ar	+eP	22 31 27.43	0.99	19	3
Hd	-eP	22 31 50.41	2.32	26	6
Wk	+iP	22 33 08.68	0.76	119*	5
Ar	+eP	09.74	1.43	19	4
Td	-iP	09.78	1.80	101	5
Sk	+eP	22 33 59.17	5.79	21	18
Hd	-iP	22 45 53.71	2.40	383	21
Ar	+iP	55.70	3.65	205	13
Td	eP	57.71	5.15	107	17
Kk	-iP	57.84	4.68	175	23
Wk	e	46 02.13		5	4
Sk	-eP	03.13	8.27	32	23
St	+iP	03.58	9.47	77	32
Ar	+eP	22 47 45.13	(1.07)	28	3
Sk	+eP	23 05 55.97	7.25	36	22
Ar	+eP	23 11 34.10	1.74	35	4
Wk	eS	34.39		46	5
Td	eP	23 32 37.03	0.95	85	3
Hd	-iP	23 41 08.83	2.38	40*	8
Td	+iP	23 47 52.49	1.35	117	4
Wk	i	53.33		55	3
Ar	+iP	23 53 58.20	1.01	998	15
Wk	+eP	58.79	1.20	255	6
Td	+iP	59.87	2.43	96	13
Kk	e	54 08.48		8	9
August 22					
Td	+iP	00 09 50.31	1.86	75	6
Ar	+eP	50.61	2.04	14	8
Hd	eP	52.09	(2.90)	18	8
Wk	e	53.95		27	3
Hd	e	00 13 05.54		62	22
Sk	+eP	06.37		36	38
Kk	e	06.63		30	30
Ar	e	06.8		46	28
Td	e	07.4		77	153
Wk	e	08.08		46	75
St	+eP	10.02		46	74
Hb	eP	12.31	25.69	86	91
In	-eP	14.0		111	173
Is	eP	15.1		75	69
Gz	eP	17.27		49	56
Hd	+iP	00 14 28.99	1.76	562	11
Ar	+iP	30.56	2.99	60	10
Td	eP	33.1	4.0	52	13
Kk	-iP	33.30	4.33	276	22
Hd	+iP	00 16 15.72	0.88	274*	8
Ar	eP	17.9	2.48	16	8
Kk	-iP	19.30	3.19	69*	13
Td	eP	19.4	3.9	23	6
Km	+iP	00 19 01.57	0.72	*	4
Wk	+iP	01.90	1.19	178	5
Td	eP	03.86	2.20	14	5
Wk	-eP	00 37 05.49	1.08	55	5
Td	+iP	05.49	1.18	240	5
Ar	-eP	06.81	1.98	16	6
Ar	+iP	00 42 53.29	0.94	(5682)	17
Wk	+iP	54.37	1.47	160	8
Td	-iP	55.01	2.18	166	16
Hd	e	55.88		37	20
Sk	-iP	01 24 00.32	3.36	46	15
Kk	eP	03.40	5.58	20	12
Kk	-iP	01 28 09.01		16	13
Td	+iP	01 44 26.94	1.15	100	4
Td	eP	02 03 15.92	1.43	134	4
Wk	e	16.93		23	3
Ar	+eP	02 07 09.27	1.08	25	3
Ar	-eP	02 17 45.9	1.26	12	4
Sk	+eP	02 33 00.55	6.44	28	19
Kk	eS	12.28		32	6
Sk	-eP	02 35 06.01		50	13

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
August 22					
Kk	eP	03 01 49.61	1.53	128	6
Td	eP	03 15 48.95	1.31	123	4
Wk	i	49.70		96	2
Hd	-iP	03 24 24.98	4.1	66	12
Kk	-iP	03 46 45.74	3.05	199*	13
Sk	+eP	47.18	4.47	28	20
Ar	+eP	03 54 17.84	1.82	7	5
Hd	eP	18.64	(2.20)	33	6
Sk	+eP	04 03 23.36	1.69	157	16
Hd	eP	04 21 48.3	2.5	11	5
Wk	+iP	04 31 47.82	1.00	1154	11
Ar	+iP	48.46	1.71	163*	18
Km	+eP	48.61	1.40		7
Td	-iP	49.36	2.31	96	21
Hd	eP	52.0		26	18
Kk	eP	55.70	3.45	20	17
Sk	+eP	32 01.47	9.98	36	27
Wk	+iP	04 37 32.60	1.01	192	4
Km	+iP	32.99	1.10		6
Ar	-iP	33.73	1.65	21	4
Td	eP	34.1	3.0	27	7
Hd	-iP	05 00 07.32	1.48	219	11
Ar	+iP	09.10	2.83	58*	11
Td	-eP	10.18		55	12
Sk	+eP	15.20	6.05	28	21
Ar	+iP	05 04 33.43	1.30	53	5
Td	iS	05 20 23.48		30	5
Wk	eP	05 28 00.80	0.88	109	5
Ar	+iP	01.00	1.12	343	8
Td	+iP	05 28 02.07	1.98	117	9
Td	+iP	05 29 09.85	1.11	57	6
Td	+eP	06 07 18.03	1.34	27	4
Td	eP	06 45 00.72	1.06	57	5
Ar	+eP	07 02 01.13	1.16	14	3
Ar	+iP	07 05 22.20		27	4
Wk	+iP	07 40 54.58	1.50	59	4
Td	-eP	55.01	1.55	137	6
Sk	-eP	07 46 43.30		43	c
Wk	+iP	08 10 54.49	1.12	146	5
Ar	+iP	54.53	1.05	202	7
Td	-iP	55.14	1.88	155*	8
Ar	-eP	08 30 21.09	1.06	28	4
Gz	+eP	08 52 27.99	12.31	278	71
Is	+iP	34.46	17.66	126	65
In	-iP	36.1	21.09	281	80
Hb	+iP	38.11	20.38	107	132
St	-eP	43.14	28.84	35	66
Td	eP	47.54	32.43	41	86
Sk	-eP	50.48		46	56
Kk	eP	53.77	28.15	26	72
Sk	+eP	08 53 52.31	4.02	14	12
Td	eP	09 07 43.21	1.15	48	3
Ar	+eP	09 15 03.82	0.78	16	3
Hd	i	09 32 19.73		58	6
Ar	+iP	09 39 41.21	1.10	35	4
Ar	i	09 41 19.74		25	3
Wk	i	09 43 02.85		87	3
Hd	i	09 49 57.52		62	4
Wk	+eP	10 02 56.68	0.91	91	4
Hd	+iP	10 21 11.72	0.82	62	5
Td	+eP	10 24 06.17	1.22	62	4
Kk	eP	10 46(39.)		4	25
Kk	eP	10 59 07.69	33.83	16	78

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
August 22					
Td	+iP	11 04 51.43	1.22	1004	57
Wk	-iP	51.71	1.23	2462	46
Km	-iP	52.51	1.78		25
Ar	-iP	53.08	2.15	524	35
Hd	-iP	56.24	4.39	245	35
Kk	eP	56.99	5.20	110	51
St	-iP	57.44	5.70	250	51
Hb	-iP	05 02.33	9.00	147	55
Sk	-eP	04.21	9.35	93	35
In	eP	07.5	13.50	131	47
Is	-eP	13.39	18.52	53	35
Sk	-eP	11 15 24.11	4.38	28	13
Kk	eP	29.03	7.16	37	18
Ar	+iP	11 21 41.92	0.87	97*	3
Ar	-iP	11 30 48.70	1.23	28	3
Wk	+iP	11 40 46.76	0.88	483	6
Ar	+eP	48.20	1.53	11	7
Td	-eP	48.34	2.36	25	13
Ar	+eP	12 07 43.05	1.45	14	4
Td	+eP	12 23 09.04	0.78	53	5
Wk	+eP	12 24 14.58	0.85	73	4
Td	+iP	12 33 24.28	1.77	174	7
Wk	i	25.91		187	a
Ar	+eP	26.05	2.65	27	10
Td	iS	12 33 33.40		53	4
Hd	-iP	12 37 11.98	2.54	150	8
Ar	-eP	14.06	3.33	35	9
Kk	-iP	16.10	4.67	49*	21
Td	eP	12 37 19.12	1.98	14	6
Ar	-eP	12 44 04.36	1.59	27	5
Td	eP	14 17 31.99	0.76	182	3
Td	+eP	14 55(22.96)	0.76	103	4
Ar	+iP	15 01 52.26	1.13	78	4
Td	+iP	15 03(32.76)	1.73	50	6
Wk	i	34.37		59	3
Kk	eP	15 04 58.31	2.68	6	10
Ar	+iP	15 13 41.68	0.94	152*	5
Km	+iP	16 15 33.69	1.75		6
Hd	+iP	16 17 18.68	9.02	2548	f
Kk	+iP	20.27	10.20	8526	119
Sk	+iP	20.44	10.42	2072	98
Ar	+iP	20.52	10.69	1505	100
Wk	+iP	22.07	11.35	2508	91
Td	+iP	22.17	11.46	1072	158
Km	+iP	22.97	12.67		71
St	+iP	25.41	14.31	880	79
Hb	+iP	30.77	18.29	868*	157
In	+iP	33.2	21.88	425	182
Is	(eP)	38.3	24.1	390	90
Kk	eP	16 28 14.82	6.22	24	27
Td	iS	17 22(39.69)		57	a
Ar	+iP	17 34 59.08	0.89	50	3
Td	+eP	17 37(24.14)	1.25	112	4
Td	+iP	18 19(21.39)	1.25	475*	8
Wk	-eP	22.26	1.79	150	5
Ar	+eP	23.35	2.96	60	10
Td	+eP	18 47(25.47)	1.37	144	5
Wk	iS	25.81		23	a
Ar	+iP	26.43	1.86	18	6
Km	eP	19 02 13.74			6
Wk	eP	19 53 59.92	0.60	14	3
Ar	+iP	20 04 45.77	1.00	124	4
Td	-iP	20 15(06.52)	0.77	215	13
Wk	eP	06.56	1.00	87	4
Ar	+iP	07.96	2.41	28	6
Hb	eP	20 19 54.24	3.98	50	19
Hd	-iP	20 21 21.89	3.36	175	15
Ar	+eP	24.23	5.34	11	11

(to be continued)

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
August 22					
(continued)					
Kk	eP	20 21 24.52	5.36	43	18
Td	eP	(26.3)	6.6	15	15
St	+eP	30.63	9.65	9	15
Td	+eP	20 49(42.49)	0.97	36	4
Td	+iP	20 53(53.84)	1.78	14	5
Wk	i	20 57 07.17		46	4
Wk	e	21 14 00.34		14	3
Hd	i	21 23 22.28		44	4
Td	-iP	21 36(24.81)	0.88	164	11
Ar	-iP	25.51	1.39	92*	5
Wk	e	26.39		46	4
Hd	+iP	21 48 20.43	1.39	146	6
Ar	+iP	21 58 49.78	1.35	1097	64
Hd	+iP	50.60	1.92	2237	50
Td	-iP	51.24	2.20	315	68
Wk	-eP	51.56	2.35	160	23
Kk	-iP	52.82	3.23	690	52
Km	+iP	53.23	3.53		26
St	+iP	57.23	6.08	208	32
Sk	+iP	59.91	8.11	356	35
Hb	+eP	59 04.78	11.27	75	48
In	+eP	08.6	16.60	92	46
Is	+eP	13.63	16.81	30	35
Td	+eP	22 07 33.31	0.86	71	6
Ar	-iP	22 21 56.27	1.32	329	27
Hd	+iP	57.07	1.89	406*	26
Td	+iP	57.71	2.28	175	32
Kk	-iP	59.28	3.18	79	38
Wk	eS	22 00.32		41	12
St	+eP	04.53	5.22	35	16
Sk	+eP	06.39	8.25	32	26
Td	e	22 23 59.5		11	66
St	+eP	59.60		35	11
Ar	e	24 01.28		21	c
Kk	e	01.31		22	13
Sk	+eP	03.18		32	20
Hd	eP	22 29 26.72	17.41	1033	48
Ar	-eP	27.37	18.36	96	51
Wk	eP	27.69	19.58	388	48
Km	+eP	28.11	19.32		40
Td	+eP	29.51	20.86	59	87
Kk	eP	29.98	20.11	158	9
Sk	-eP	33.06	21.84	167	58
St	+eP	36.28	24.31	11	45
Hb	eP	41.68		9	62
Is	eP	47.9		16	60
Hd	-eP	22 45 33.55	8.86	110	21
Kk	eP	38.41	11.78	26	22
Td	eP	37.34	12.37	26	9
Hd	+iP	22 48 10.12	0.89	464*	7
Kk	-eP	13.71	3.15	12*	6
Sk	+eP	22 56 11.05	3.17	25	8
Kk	eP	13.16	4.39	22	11
Td	+iP	23 02 48.91	1.28	86	7
Hd	-eP	23 18 02.76	1.69	110	5
Hd	-iP	23 52 58.82	0.79	332	10
Ar	+eP	53 01.39	2.32	9	10
Kk	iP	02.89	3.38	18	8
Td	eP	03.35	4.06	15	11
August 23					
Td	iS	00 01 51.66		26	3
Ar	+eP	00 03 36.55	1.13	432	11
Hd	-eP	38.11	(1.95)	26	15
Td	+eP	38.98	2.92	16	14
Td	eP	00 12 05.63	0.78	25	3
Td	eP	00 18 49.95	1.73	16	8
Hd	-eP	50.33	(2.54)	66	7
Td	-iP	00 41 12.52	1.00	128	6
Hd	+iP	01 07 06.50	1.49	58	5
Td	eP	01 32 03.71	1.35	28	4
Td	+iP	01 35 14.38	1.18	313	11

(to be continued)

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
August 23					
(continued)					
Wk	-iP	01 35 14.68	1.46	50*	4
Ar	+eP	16.16	2.01	27	7
Ar	-eP	01 42 04.38	1.01	12	4
Td	+iP	04.77	1.55	15	8
Td	iS	02 10 13.26		27	3
Sk	-eP	02 30 55.71	15.32	19	26
Kk	e	02 31 19.88		16	7
Td	-eP	02 35 25.66	1.21	19	3
Hd	-iP	03 00 18.28	5.90	788	18
Ar	+eP	19.20	6.91	9	14
Td	eP	21.78	9.03	15	24
Kk	eP	22.86	9.15	53	23
Sk	-eP	28.03	12.35	21	21
Wk	-iP	03 03 43.81	1.13	68	3
Km	+iP	43.86	1.28		5
Ar	eP	45.11	1.90	21	8
Td	-iP	45.53	2.39	31	12
Td	+iP	03 15 40.09	1.12	179	13
Wk	e	41.44		109	3
Td	+iP	03 28 26.41	1.31	69	6
Hd	eP	03 46 44.85		88	64
Td	-eP	47.22	25.87	17	112
Sk	+eP	49.49		14	82
Ar	+iP	04 07 07.20	0.81	51*	3
Wk	-iP	04 07 35.90	1.22	1272	16
Td	-iP	36.22	1.48	755	51
Km	-iP	36.30	1.37		28
Ar	-iP	37.50	2.30	179	28
Hd	+eP	40.80	4.53	124	27
Kk	-eP	41.64	5.30	61	35
St	-eP	41.96	5.95	42	22
Hb	eP	46.61	8.80	36	34
Sk	+eP	48.75	10.66	57	26
In	eP	51.9	13.67	20	31
Is	eP	58.29	17.82	12	35
Hd	+iP	04 15 02.82	1.05	18	4
Td	-iP	04 26 10.77	2.33	9	7
Td	eP	04 36 34.10	2.99	4	6
Hd	eP	04 41 25.21	5.56	29	18
Td	eP	30.49	7.65	14	18
Ar	e	34.31		28	5
Td	+iP	05 14 47.70	0.99	15*	4
Hd	eP	05 17 44.43	10.59	58	19
Td	+iP	05 18 37.32	0.98	13*	5
Td	+iP	05 23 45.89	1.19	10	a
Ar	+eP	05 36 18.40	0.85	23	3
Ar	+eP	05 54 42.66	0.99	27	4
Td	+iP	05 56 40.85	1.74	17	5
Hd	-iP	06 05 49.49	2.59	767*	29
Ar	-iP	51.72	3.66	57	18
Kk	-eP	53.42	5.08	166*	23
Td	-iP	53.84	5.86	27	25
Sk	+eP	58.56	8.68	217	18
St	+eP	59.65	9.66	18	20
Hd	e	06 21 56.19		37	5
Td	+iP	06 38 58.54	1.19	59	5
Ar	+iP	06 39 18.70	1.02	27	4
Hd	-eP	06 48 27.98	2.40	37	7
Td	+iP	07 17 07.43	1.30	195	12
Wk	-iP	08.10	1.68	91	4
Ar	-eP	09.38	2.53	48	7
Ar	-eP	07 18 47.25	1.51	62	6
Hd	-iP	48.11	2.15	22	6
Td	iS	50.54		20	4
Ar	+iP	07 40 52.51	0.96	1004	11
Td	-iP	54.25	2.05	106	12
Hd	+eP	54.89	2.46	28	13
Ar	i	07 41 09.51		25	3
Ar	+eP	07 52 05.22	1.24	28	5

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
August 23					
Ar	+iP	07 58 16.32	1.15	27	6
Td	+iP	08 00 03.91	1.14	362	6
Wk	-iP	04.10	1.38	32	3
Ar	-eP	05.47	2.21	14	9
Kk	+iP	08 16 51.84	2.33	>9419	124
Hd	-iP	51.88	1.97	>10730	155
Ar	+iP	54.07	3.44	8107	177
Td	+iP	55.03	4.48	>569	203
Wk	iP	55.88	4.90		e
Sk	-iP	56.67	5.71	>17730	107
Km	+iP	57.52	5.40		90
St	+iP	58.39	6.70	9029	191
Hb	-iP	17 04.73	11.71	>942	168
In	-eP	07.2		(519)	198
Is	+iP	12.57	17.72	943	113
Gz	eP	13.99	22.52	468	126
Hd	-iP	08 25 53.90	2.52	47	11
Ar	-iP	08 30 37.04	1.02	140	4
Ar	i	08 45 57.22		27	3
Ar	+iP	08 49 57.77	1.05	30*	5
Ar	+iP	09 10 42.33	0.87	246*	6
Hd	e	09 15 13.1		24	5
Ar	+iP	09 34 42.58	1.64	28	5
Hd	+iP	09 41 56.43	1.03	216*	8
Kk	-iP	59.75	3.12	53	14
Hd	+iP	09 43 56.57	1.02	87*	6
Ar	e	09 49 25.72		12	3
Ar	+eP	09 49 43.82	0.94	32	5
Ar	+eP	10 07 25.47	17.44	28	37
Hd	eP	28.1	19.1	36	44
Hb	eP	29.39	19.65	25	58
Kk	eP	30.43	21.10	20	46
Km	i	37.80			5
Wk	eS	39.18		64	13
Is	eP	39.65		9	50
Gz	+iP	10 12 06.91	1.55	808*	(60)
In	-eP	14.3	7.33	70	38
Is	eP	14.3	(11.1)	16	33
Hb	eP	15.54	12.02	34	27
St	+eP	23.12	14.93	33	38
Kk	-iP	10 12 28.96	2.37	20	7
Ar	+iP	10 31 35.74	1.12	122	6
Ar	+iP	10 44 29.47	1.13	145	5
Ar	-eP	11 07 45.02	1.37	30	6
Hd	-iP	11 08 05.32	(2.48)	31	8
Hd	-iP	11 23 25.28	2.28	31	6
Wk	+iP	11 25 48.12	1.65	210	8
Hd	-iP	11 25 39.16	3.71	223	35
Ar	-iP	41.48	5.09	152	24
Kk	-iP	42.56	5.73	207	41
Sk	+eP	45.69	9.32	210	33
St	-eP	48.11	10.25	128	48
Hd	-iP	11 28 18.90	2.16	50	7
Ar	+eP	11 28 22.63	1.79	14	6
Hd	+eP	11 28 43.22	1.63	55	5
Ar	+iP	11 35 32.96	0.61	150	4
Td	+iP	12 07 19.04	1.81	26	6
Is	-iP	12 29 23.40	4.79	319*	41
Hb	eP	33.59	13.68	50	39
St	+eP	39.18	16.28	61	36
Kk	eP	46.19	19.69	14	42
Td	+iP	12 53 51.35	1.13	30	5
Ar	-eP	13 46 52.67	0.81	7	4
Ar	+iP	13 51 15.69	1.09	35	5
Td	iS	14 28 10.43		155	4
Td	+iP	14 45 20.73	1.18	87	4

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
August 23					
Ar	+eP	14 53 52.36	1.44	12	6
Km	+iP	15 27 41.61	4.47		12
Wk	+iP	42.26	4.55	146	11
Td	-iP	42.49	4.68	119	29
Ar	-eP	44.23	5.60	21	23
St	-iP	45.00	6.87	69	38
Hb	+iP	46.32	7.66	98	38
Hd	eP	47.5		52	26
Kk	eP	47.75	8.86	37	34
Sk	-eP	54.32	13.33	25	28
Is	-eP	58.40	16.65	11	33
Hd	+eP	15 36 02.41	0.83	14	4
Ar	+iP	15 48 52.94		78	3
Ar	-eP	15 52 31.59	1.28	50	7
Td	-iP	32.23	1.58	37	7
Hd	eP	33.37	2.55	28	7
Kk	eP	34.69	3.27	18	16
Ar	+iP	16 42 16.79	0.81	16	3
Hd	+iP	16 42 41.13	2.28	154	10
Ar	+iP	43.1	3.84	30	10
Kk	+iP	45.29	4.76	37	21
St	-eP	50.93	8.60	7	21
Sk	+eP	59.02		28	7
Hd	-iP	16 44 42.30	2.32	87	19
Ar	+iP	44.30	3.66	28	10
Kk	iP	46.47	4.70	45*	18
Kk	eP	16 46 44.00	2.27	20	12
Hd	-iP	44.1	2.2	21	7
St	+eP	50.54	7.02	18	28
Hd	+iP	16 52 09.26	0.93	43	7
Ar	+eP	17 01 17.27	0.69	46	4
Hd	-iP	17 06 55.28	2.21	10	5
Hb	eP	17 26 40.34	12.14	25	35
Td	+iP	17 50 55.18	1.18	91	8
Hd	+eP	17 51 52.42	1.21	35	8
Hd	+eP	17 51 57.34	(1.24)	24	10
Km	+iP	17 56 40.30	1.03		9
Wk	+iP	40.84	1.47	242	7
Td	-iP	42.33	2.26	125	13
Ar	-eP	42.71	2.59	25	8
Kk	+eP	47.89	5.88	12	22
Td	+iP	18 15 50.48	0.67	513	7
Ar	-eP	51.72	1.69	35	6
Ar	+iP	18 20 37.07	0.90	85	4
Wk	eP	18 30 56.14	1.16	68	4
Td	+iP	56.15	1.10	100	6
Ar	+eP	56.65	1.03	37	5
Ar	-iP	18 32 26.58	1.04	23	3
Ar	+iP	18 59 55.97	0.81	46*	3
Td	+iP	19 51 49.90	1.25	18*	4
Hd	-iP	19 54 49.93	1.41	52	5
Td	-eP	19 59 21.46	1.10	189	5
St	+eP	20 41 55.09	5.48	21	12
Td	eP	20 51 50.30	1.3	63	5
Td	+iP	21 02 39.76	1.13	21	5
Ar	-iP	21 08 00.62	0.93	78	4
Td	-eP	01 70	1.69	13	6
Hd	e	21 37 05.1		21	6
Td	eP	21 40 06.21	1.11	37	4
Hd	+iP	21 46 18.43	0.80	28	6
Td	+eP	21 47 48.03	1.15	17	4
Ar	+iP	21 52 02.52	0.64	290*	4
Kk	iP	22 00 17.92	2.28	41	12
Td	e	22 11 17.10		26	d
Td	eS	22 12 10.61		14	27

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
August 23					
Ar	-eP	22 13 12.94	0.89	16	3
Td	+iP	22 43 01.14	1.80	179	6
Wk	e	01.80		23	3
Is	e	22 53 11.76		18	10
St	+eP	16.33		40	17
Td	e	19.3		36	58
Hd	e	19.65		29	9
Is	+eP	23 12 33.8	11.3	11	20
Wk	e	23 13 58.32		96	4
Ar	+iP	59.10	0.96	122	5
Td	+eP	14 01.76	2.51	6	11
Td	+iP	23 32 42.51	4.26	13	9
Td	-iP	23 59 03.49	1.43	42	10
August 24					
Td	+iP	00 10 23.07	1.29	7	5
Ar	+iP	00 11 26.66	0.82	437*	7
Hd	-iP	00 15 08.25	0.97	1069	23
Ar	+iP	10.22	2.48	166*	18
Kk	-iP	11.32	2.96	298	33
Td	+iP	11.92	3.67	195	27
St	-eP	17.01	7.53	76	21
Sk	-eP	17.82	7.44	14	18
Td	eP	00 21 06.96	26.63	12	61
Gz	eP	00 21 40.09	9.75	39	44
Is	+eP	47.21	17.92	21	50
In	+eP	49.1	19.27	76	49
Hb	eP	51.51	17.97	32	47
St	+eP	56.90	24.40	14	42
Sk	-eP	22 06.61		11	18
Wk	+iP	00 34 52.42	0.73	109*	3
Td	+eP	01 35 20.22	1.21	22	3
Wk	-iP	01 56 00.80	1.30	78	5
Km	-iP	01.04	1.20		6
Ar	-iP	01.60	1.99	60	8
Td	-iP	02.72	3.54	33	16
Ar	-iP	02 09 22.90	0.97	46	4
Sk	+eP	02 22 17.14		43	33
St	+eP	21.18		16	21
In	+e	21.3		20	38
Td	e	22.37		15	80
Hb	e	22.67		18	d
Td	+eP	02 23 19.30	1.33	60	3
Sk	+iP	02 35 59.67	3.01	338	26
Kk	-iP	36 03.65	6.29	79*	31
Ar	e	07.84		7	3
St	+iP	08.06	9.50	37	23
Td	eP	08.27	9.89	10	23
Ar	+eP	02 50 13.68	0.82	11	3
Td	+iP	02 53 37.18	1.32	10	5
Td	-iP	02 56 57.46	0.89	146	5
Ar	+eP	58.05	1.54	11	4
Kk	eP	02 57 32.88	5.05	26	12
Td	+iP	03 05 16.32	1.91	11	6
Ar	e	03 07 04.06		7	3
Wk	+iP	03 12 44.44	1.00	41	4
Ar	+iP	44.73	1.20	48	4
Td	-eP	45.60	1.83	38	6
Sk	-eP	03 16 29.51	7.98	14	16
Td	eP	30.77	8.28	4	18
Sk	+iP	03 20 40.55	3.21	75	10
Kk	+eP	42.65	4.48	32	13
St	+eP	47.37	6.43	5	13
Ar	+iP	03 57 02.84	0.88	27	3
Wk	+iP	04 02 21.87	0.74	55*	3
Ar	-eP	22.38	1.17	16	4
Td	+iP	23.07	1.73	33	6
Td	eP	04 02 59.76	0.66	54	4

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
August 24					
Ar	-eP	04 29 18.64	1.10	11	3
Ar	+iP	04 37 12.83	0.72	25*	2
Hd	-iP	04 52 55.09	2.32	45	11
Kk	-iP	58.84	4.78	24	14
Wk	-iP	04 56 57.45	1.14	315	5
Km	+iP	57.76	1.18		7
Ar	-iP	58.51	1.89	51	7
Td	-iP	59.09	2.52	35	11
Hd	i	05 41 09.02		12	3
Td	+iP	05 52 11.04	1.12	80	6
Td	+iP	05 55 25.48	1.34	153	9
Wk	iS	26.55		114	3
Ar	+eP	26.90	2.30	21	6
Is	+eP	06 09 42.6		32	50
In	+iP	42.9		236*	98
St	+iP	44.83		120*	54
Kk	+iP	46.12		89	32
Sk	iP	46.45		114	26
Td	+iP	46.52		136	86
Ar	+iP	47.04		89	33
Wk	i	47.07		187	8
Km	+i	47.23			6
Hd	+iP	47.43		145*	23
Td	-eP	06 30 36.45	1.43	24	5
Wk	+iP	06 31 16.77	1.31	725*	10
Km	+iP	16.78	1.05		6
Ar	-iP	17.87	2.20	60	16
Td	-iP	18.55	3.28	55	18
Hd	e	20.7		12	18
Kk	eP	23.49	5.73	12	21
St	+eP	25.24	7.84	37	16
Wk	i	06 45 57.44		46	3
Hd	-iP	06 47 58.47	(2.13)	17	6
Td	+eP	07 02 48.04	1.76	13	3
Td	+iP	07 05 26.42	1.16	150	5
Is	-iP	07 09 24.9	5.74	303	58
Gz	eP	26.44	6.80	117	33
In	-eP	28.2	8.67	246	72
St	+eP	38.07	16.78	79	56
Td	eP	44.18	20.06	19	39
Sk	-eP	45.02	24.43	11	44
Kk	eP	45.93	22.53	24	46
Gz	eP	07 25 24.46	30.25	78	113
Is	-eP	34.3		229	128
In	+eP	37.8	54.02	170	170
St	+eP	45.14	44.84	141	162
Td	eP	47.		29	163
Sk	+eP	51.54	33.62	71	40
Kk	eP	07 26 09.09		49	37
Sk	eS	32.26		85	59
Wk	eP	41.71		41	60
Td	eP	07 29 43.37	1.52	110	5
Hd	+iP	07 48 54.99	4.23	209	36
Ar	+iP	57.52	5.99	193	28
Kk	-eP	57.73	5.93	244	35
Td	-iP	59.60	7.14	167	37
Sk	+eP	49 00.40	8.80	114	21
St	+eP	03.53	10.76	114	35
Wk	eS	06.56		41	12
Kk	eP	07 56 29.78	4.38	16	(10)
Is	eP	08 50 26.8	10.6	11	38
Hd	-iP	08 53 18.14	2.26	42	12
Kk	-iP	22.32	3.85	28	20
Is	-eP	09 45 06.59	7.30	43	27
Ar	+eP	09 51 12.83	31.11	35	70
Hd	eP	13.3		83	75
Td	+eP	13.45	30.21	39	111
Wk	eP	14.6		46	41
Kk	eP	16.77		53	77
St	+eP	17.88	39.22	42	90
Hb	eP	20.50	38.25	25	91
Sk	+eP	21.14		28	75
In	eP	25.0	45.88	41	144
Is	+eP	28.77		18	95
Gz	eP	29.04	39.13	19	72
Ar	eP	10 11 22.83	0.96	39	5

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
August 24					
Sk	-eP	10 42 05.92	2.91	28	9
Hd	+iP	10 57 59.76	2.49	81	12
Kk	iP	58 03.78	3.86	37	12
Kk	-iP	11 00 28.26	2.22	168*	18
Hd	-iP	28.32	2.17	40	12
Sk	+eP	33.25	5.81	39	15
St	+eP	35.12		69	19
Hd	+iP	11 17 20.53		55	7
Kk	-iP	11 28 48.68		30	10
Hd	e	11 29 50.8		24	6
Wk	+eP	11 38 19.65	0.75	96	5
Ar	+iP	20.42	1.79	25	7
Td	+iP	21.05	2.28	25*	6
Hd	-iP	11.45 59.94	2.62	24*	8
Kk	eP	11 50 48.09		(10)	
Hd	-iP	48.20	2.17	24	10
Sk	+eP	52.95	5.91	7	9
Hd	-iP	11 53 51.98	2.30	45*	9
Ar	+eP	11 57 53.06	0.81	14	3
Ar	+iP	12 01 54.14	0.84	89	4
Hd	eP	12 10 12.32	(9.59)	21	16
Kk	-iP	12 10 33.80	2.21	24	8
Hd	+eP	12 28 57.26	1.04	131	7
Is	eP	12 50 04.1	(20.7)	14	31
St	+iP	06.51	5.58	51	22
Sk	-eP	11.11		36	17
Is	-iP	12 56 59.47	6.02	256	53
Gz	eP	57 00.90	6.84	107	46
St	+eP	12.84	16.41	58	44
Sk	+eP	19.69	22.35	25	38
Kk	(eP)	19.82	21.07	20	47
Wk	+eP	12 58 12.66	1.33	360	15
Ar	+iP	12.71	1.47	573	23
Td	-iP	14.15	2.87	150	17
Hd	+eP	15.36		35	24
Kk	eP	18.53		8	
St	+eP	20.82		28	24
Sk	-eP	25.48	9.68	14	20
Wk	+iP	13 00 15.15	0.57	388	4
Td	-iP	16.01	1.31	112	5
Ar	-iP	16.79	1.58	25	5
Ar	-eP	13 16 36.75	0.87	16	3
Td	-iP	13 19 40.00	1.49	135	5
Sk	-eP	13 26 09.99	5.41	39	21
Hd	eP	13 30 07.92		14	20
Sk	+eP	17.59		4	23
Wk	+iP	13 51 32.07	0.79	173	4
Td	-iP	33.34	2.18	45	6
Ar	+eP	33.66	2.24	12	5
Wk	+iP	13 56 23.67	1.08	87	4
Kk	-iP	14 44 56.43	1.63	18	4
Wk	-iP	14 56 26.22	0.59	1031	6
Td	-iP	27.10	1.32	240	15
Km	-iP	27.41	1.22		5
Ar	+eP	27.78	1.83	103*	10
Hd	+iP	31.05	4.18	21	11
Ar	+iP	15 11 11.45		108	3
Hd	-iP	15 16 52.03	1.68	95*	12
Kk	-iP	52.93	2.13	288*	25
St	+eP	59.23	7.01	37	15
Is	eP	15 28 12.9		28	127
Gz	eP	16.09		29	58
In	+eP	17.5	65.55	37	170
Hb	eP	19.08	62.27	29	139
St	+eP	24.90		18	124
Td	eP	15 42 28.30	1.81	21	3
Ar	+iP	16 00 42.64	0.87	214*	5
Td	eP	44.71	2.07	9	7

St.	Pha.	Time h m s	S-P s	Am μkine	F-P s
August 24					
Td	eP	16 13 12.77	1.75	21	4
Wk	+iP	16 16 51.63	0.76	114*	4
Is	e	16 17 38.1		20	43
St	+eP	40.50		40	48
Td	+eP	16 45 43.70	1.13	34	6
Kk	-iP	16 51 07.46	4.92	114*	20
Sk	-iP	08.85	6.21	75	17
Hd	-eP	08.92	6.20	24	14
St	+eP	10.79	6.69	74	18
Wk	i	17 04 06.37		50	a
Td	-eP	17 04 35.46	1.52	122	6
Ar	+eP	17 09 05.88	1.19	21	4
Hd	+eP	17 19 49.54	6.3	33	15
Hd	eP	17 27 07.14	2.02	28	8
Ar	+eP	08.87	3.71	9	8
Ar	+iP	17 30 24.73	1.02	19*	3
Is	-iP	17 35 14.70	3.9	25	15
Hd	+iP	17 40 07.12	0.76	1010	15
Ar	+iP	09.60	2.48	101*	9
Kk	-iP	10.83	3.14	89*	30
Td	eP	11.53	3.61	55	7
St	iP	16.52	7.43	19	26
Ar	+iP	18 12 14.85	0.91	184	8
Td	eP	17.83	1.40	32	7
Td	eP	20 17 17.28	1.21	24	5
Wk	-iP	20 27 11.56	1.40	1359	35
Ar	-iP	11.96	1.56	635	40
Km	-iP	12.24	1.42		22
Td	-iP	13.27	2.86	292	45
Hd	-iP	14.85	3.39	235	31
Kk	eP	17.53	5.53	300	41
St	-iP	19.90	8.97	69	38
Sk	-eP	24.62	10.34	139	32
In	+iP	31.3	14.05	29	69
Is	eP	36.6	19.1	18	40
Gz	-e	21 02 10.73		63	37
Is	-iP	13.67		82	46
In	-iP	14.1		144*	110
Td	e	19.97		42	68
Ar	e	20.89		28	7
Hd	eP	22.07		123*	18
Ar	+iP	21 05 19.24	1.25	64	4
Td	-iP	19.52	1.52	42	7
Wk	+iP	21 25 09.30	0.79	511	5
Km	+iP	10.06	0.98	*	8
Ar	+iP	10.71	1.64	74	10
Td	-iP	10.84	2.16	125	15
Hd	+iP	13.90	(4.13)	16	16
Ar	+eP	21 34 09.98	1.11	18	3
Td	+iP	21 39 16.88	1.10	35	5
Td	-iP	21 51 57.55	0.89	33	5
Sk	+eP	21 53 20.24		19	11
Ar	+iP	21 54 01.50	1.29	692	27
Hd	+iP	02.50	1.92	631	30
Td	-iP	03.33	2.20	318	42
Wk	e	04.40		46	16
Kk	-iP	05.02	3.41	219	34
St	+iP	09.29	6.19	67	35
Sk	+eP	12.08	8.56	36	33
In	+iP	20.7	14.05	20	31
Td	eP	21 55 03.71	0.78	54	3
Ar	+iP	22 05 54.84	0.82	34	3
Td	+iP	22 20 44.01	2.35	62	7
Ar	+eP	45.89	3.65	9	8
Kk	eP	22 30 10.58	2.45	16	16
Hd	-iP	10.69	2.45	22	9
St	+eP	17.20	6.93	21	20
Kk	-iP	22 38 29.84	1.56	89*	9
Ar	+iP	22 53 37.89	0.99	19	2

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
August 24					
Hd	-iP	22 53 51.66	1.18	356	13
Ar	+iP	53.72		113*	7
Kk	-iP	54.08	2.70	114*	18
Td	+iP	55.33	3.49	27	15
St	-eP	59.91	7.37	18	18
Hd	-iP	23 02 22.80	0.93	81	5
St	+eP	23 03 43.28	7.56	35	20
Kk	eP	43.47	6.68	57	19
Td	-iP	43.96	6.89	16	16
Hd	-eP	44.97	8.00	24	15
Sk	+eP	46.10	9.94	39	18
Td	+iP	23 04 15.38	1.10	426	21
Ar	-iP	15.41	1.35	198	10
Wk	-eP	16.07	1.52	233	7
Hd	+eP	18.01	2.75	24	11
Kk	eP	19.38	3.01	12	19
Ar	+iP	23 05 20.77	1.01	14	3
Td	-eP	23 09 39.35	1.83	26	8
Td	-iP	23 12 12.77	1.11	40	5
St	+eP	23 24 59.59	6.40	33	24
August 25					
Ar	+eP	00 06 39.50	0.65	9	2
Ar	+iP	00 08 21.01	1.24	19	4
Td	-iP	00 13 18.51	1.55	21	5
Ar	+iP	00 33 15.47	0.92	34*	3
Km	+iP	00 42 13.17	0.90		4
Td	-iP	14.08	1.83	27	5
Ar	+iP	00 42 46.48	0.93	103	5
Td	+eP	48.86	2.04	47	10
Ar	+eP	00 46 15.09	0.90	7	3
Wk	i	01 19 59.34		14	2
Km	-iP	01 46 52.01	3.41		21
Wk	-eP	53.26	3.88	223	19
Ar	+eP	54.69	5.04	50	24
Td	-eP	54.87	4.95	116	45
Hd	eP	57.50		48	32
Kk	eP	47 00.37	8.53	63	36
St	+eP	00.43	8.77	83	43
Sk	+eP	07.61	13.57	39	32
Is	eP	15.7	19.6	18	40
Td	eP	01 54 57.9	1.0	36	4
Wk	+iP	01 56 04.77	0.93	41	3
Td	+eP	06.30	2.06	17	7
Wk	+iP	01 56 59.58	0.94	260*	5
Km	+iP	57 00.29	1.10		8
Ar	-iP	00.83	1.74	32	7
Td	-iP	01.12	1.87	105	12
Hd	+iP	02 00 39.63	1.17	52	6
Kk	eP	41.99	2.63	8	6
Ar	+iP	02 10 26.31	0.73	158*	4
Hd	+iP	02 16 26.31	1.24	33	6
Kk	eP	30.29	3.68	16	8
Kk	eP	02 30 44.97	1.59	18	6
Ar	-eP	02 33 08.03	0.99	21	3
Is	eP	02 42 30.4		16	148
In	eP	33.6		14	207
St	-eP	42.35		18	47
Kk	eP	02 59 36.12	2.55	85	11
Hd	e	36.60		21	5
Wk	i	03 02 44.24		123	3
Td	eP	03 43 40.75	1.60	25	4
Ar	+eP	03 49 57.17	1.62	60	5
Td	-eP	58.58	3.00	20	b
Td	+iP	03 50 07.42	1.48	29*	6
Td	+eP	04 01 41.08	1.62	116	6
Ar	+iP	04 06 18.49	0.96	41	5

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
August 25					
Is	+eP	04 18 05.60	10.20	12	23
Wk	iS	04 24 48.14		78	3
Ar	+eP	04 35 23.97	1.21	12	3
Hd	eP	04 37 52.48	1.23	16	5
Ar	+iP	05 04 01.35	1.20	83	5
Kk	eP	05 06 23.64	2.95	12	8
Kk	eP	05 07 02.91	2.93	18	8
Td	+iP	05 27 56.06	1.26	54	4
Td	+iP	05 36 29.38	1.14	22	3
Hd	i	05 39 27.8		54	3
Ar	+eP	06 05 10.08	1.23	35	3
Hd	+eP	06 22 11.17	1.46	221	13
Ar	+iP	11.89	2.02	67	7
Kk	-iP	15.13	3.92	171*	21
Sk	+eP	21.62	8.18	21	16
Ar	-iP	06 28 36.50	1.27	512	24
Wk	+eP	37.75	1.81	87	b
Hd	-iP	38.40	2.58	42	23
Td	iP	38.84	3.08	165	22
Kk	-eP	41.83	4.62	69	26
St	+eP	45.15	7.96	16	32
Sk	+eP	48.80	9.04	21	19
Wk	iS	06 42 12.11		214	3
Ar	-eP	12.54	1.65	12	5
Hd	(eP)	06 42 24.8	1.6	29	6
Wk	iS	06 58 37.97		173	3
Wk	iS	06 59 34.12		141	2
Ar	+iP	07 06 01.75	1.15	142	6
Ar	+iP	07 08 33.95	1.18	35	4
Td	+iP	34.88	1.74	35	6
Hd	i	07 46 53.95		17	6
Hd	-iP	08 09 28.72	2.04	178	12
Ar	-eP	30.54	3.24	28	9
Kk	-iP	33.06	4.40	81*	18
Hd	+iP	08 16 34.57	1.37	78	8
Ar	-eP	08 26 40.60	1.86	11	6
Wk	i	40.65			a
Ar	+iP	08 28 48.14	1.19	51	5
Ar	+eP	08 29 00.97	1.28	14	4
Kk	-iP	08 31 33.88	2.87	45*	8
Td	+iP	08 53 37.80	0.63	100	b
Sk	+eP	08 58 20.22	4.23	164	12
Kk	+iP	20.81	4.09	43*	22
St	-iP	21.51	4.80	243	19
Hd	e	31.98		14	5
Ar	-iP	09 04 18.66	1.12	64	4
Ar	+eP	09 07 43.88	0.94	7	3
Hd	+iP	09 14 10.85	0.89	74	7
Kk	-iP	14.36	3.10	12*	11
Hd	+iP	09 36 16.04	1.15	52*	5
Wk	-eP	09 43 05.84	0.65	474	5
Kk	+iP	09 49 35.50	2.31	77	26
Hd	-iP	35.54	2.46	73*	11
Ar	+eP	37.71	3.73	34	9
Sk	-eP	40.42	5.65	21	16
St	+eP	41.72	6.97	69	19
Ar	+iP	09 51 55.11	0.80	11	2
Kk	-eP	09 51 58.74	2.97	235	20
St	-iP	59.78	3.72	81	16
Sk	+eP	52 01.48	5.65	7	13
Ar	+eP	10 10 58.82	1.11	50	5
Ar	-iP	10 41 59.21	0.79	177	10

(to be continued)

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
August 25 (continued)					
Wk	+iP	10 41 59.72	1.11	82	5
Hd	+eP	42 02.20	(2.80)	22	10
Hd	+iP	10 58 52.50	1.80	17	7
Ar	+iP	11 00 56.4	1.02	106	6
Wk	+iP	56.63	1.04	64*	5
Kk	eP	11 15 23.44	6.58	45	22
Hd	eP	26.30	(8.43)	7	21
St	+iP	27.28	9.63	49	26
Wk	+iP	11 31 46.13	0.87	123	5
Hd	+iP	11 34 31.20	1.55	24	5
Wk	-iP	11 39 03.68	1.17	119	6
Hd	+iP	11 54 30.46	1.57	22*	10
Ar	+iP	12 07 15.63	1.10	42	3
Kk	-iP	12 22 48.66	6.17	57	20
Hd	+iP	49.81	7.44	21*	14
Kk	-iP	12 50 03.08	1.52	85*	7
Ar	+iP	12 58 50.08	1.09	170	7
Kk	eP	14 16 06.39	1.53	20	5
Wk	+iP	14 26 10.75	0.80	205*	4
Km	+eP	11.57	0.85		a
Ar	-iP	14 47 53.33	0.86	67	4
Hd	-iP	15 21 30.94	1.38	59	8
Ar	-iP	16 00 38.87	0.83	308	7
Is	+eP	16 17 47.9	12.1	11	30
Kk	-eP	16 35 35.50	2.34	16	6
Ar	-eP	16 46 01.82	1.21	23	4
Hd	-iP	17 18 06.81	2.45	52	10
Kk	-iP	10.67	4.94	28	17
Is	eP	17 23 47.72	(12.21)	20	35
St	-eP	55.32	18.14	58	38
Ar	+iP	17 24 16.99	1.07	120	6
Wk	+eP	17 50 23.52	0.77	109	4
Hd	+eP	17 52 22.65	(1.18)	26	14
Hd	-iP	17 59 19.08	2.53	965	40
Ar	-iP	21.18	3.98	161	24
Wk	-eP	22.99	4.88	96	23
Kk	-iP	23.09	4.94	564*	38
Sk	+iP	28.20	8.27	776	29
St	-eP	28.79	9.73	192	35
Is	-eP	45.42	20.05	12	37
Ar	+iP	18 32 44.09	1.08	181	6
Ar	+iP	18 33 17.17	1.58	99	7
Hd	+iP	17.76	1.97	131	12
Kk	-iP	19.67	3.10	49	19
Hd	e	18 54 40.03		26	5
Wk	i	19 03 43.73		41	3
Ar	-iP	19 26 31.05	1.03	101*	6
Wk	+iP	31.28	1.16	78*	5
Ar	-eP	19 51 07.08	2.54	42	12
Kk	eP	07.98	2.41	160	24
Hd	-iP	08.25	2.81	142	17
Wk	e	10.83		68	11
St	+iP	11.74	4.72	37	28
Kk	eP	19 58 54.78	9.97	28	39
Is	-iP	20 34 20.95	5.31	39	25
In	+eP	25.8	11.55	59	28
St	+eP	36.27	17.24	11	33
St	+iP	20 38 49.52	6.56	345	29
Wk	+iP	20 56 31.96	1.10	237*	5
Km	+iP	32.76	1.28		4
Ar	-eP	32.88	1.61	117	9

St.	Pha.	Time h m s	S-P s	Am μ kine	F-P s
August 25					
In	-iP	20 58 48.2	5.41	509	31
Is	-eP	51.53	7.21	46	27
Wk	+iP	21 24 48.00	0.90	50	4
Wk	eP	21 50 45.77	1.35	73	5
Ar	+iP	22 29 32.5	0.96	4177	18
Wk	+iP	33.98	1.94	187	9
Kk	-iP	37.44	4.32	37	29
St	+eP	41.18	6.76	18	25
Sk	-eP	44.28	9.26	14	20
Ar	-iP	22 37 14.21	1.07	28*	3
Kk	-iP	22 37 35.52	1.54	24	6
Ar	-eP	22 42 19.66	1.16	32	4
Ar	+iP	22 48 38.72	1.01	437*	7
Ar	+iP	22 49 11.85	0.56	104*	3
St	+iP	23 18 08.44	4.81	289	39
Km	-iP	09.60	6.32		19
Wk	+iP	09.85	5.57	182	17
Ar	+iP	11.31	6.66	74	25
Kk	-iP	13.60	8.08	65	35
In	+iP	14.0	9.25	60	43
Hd	eP	15.0	(8.8)	36	31
Sk	+eP	19.11	12.04	39	26
Is	eP	20.02	14.3	25	40
Ar	+iP	23 38 12.06	0.90	1699	36
Wk	+iP	13.47	1.75	670	16
Hd	iP	13.97	(2.05)	190	35
Km	+iP	14.32	2.88		13
Kk	-iP	17.29	4.56	268	51
St	+iP	20.83	7.52	132	66
Sk	-eP	24.32	9.19	206	27
In	-iP	32.2	14.41	35	44
Is	-eP	37.46	19.5	18	40