

SEP 24 1965

ATSS-10

SMITHSONIAN INSTITUTION
ASTROPHYSICAL OBSERVATORY

Research in Space Science

SPECIAL REPORT

Number 183

GPO PRICE \$ _____

CFSTI PRICE(S) \$ _____

Hard copy (HC) 6.00

Microfiche (MF) 1.50

ff 653 July 65

CATALOG OF PRECISELY REDUCED SIMULTANEOUS OBSERVATIONS

No. S-1

FACILITY FORM 602

N65-35111
(ACCESSION NUMBER)

(THRU)

276
(PAGES)

(CODE)

CR 67252
(NASA CR OR TMX OR AD NUMBER)

30
(CATEGORY)

September 14, 1965

Cambridge, Massachusetts 02138

SAO Special Report No. 183

CATALOG OF PRECISELY REDUCED SIMULTANEOUS OBSERVATIONS

No. S-1

Prepared by Richard Wells, Data Division

Smithsonian Institution
Astrophysical Observatory

Cambridge, Massachusetts 02138

TABLE OF CONTENTS

Catalog of Precisely Reduced Simultaneous Observations

Introduction	1
Observations of Satellite 1960 Iota 2 (Echo 1 Rocket Body)	7
November 17 and December 28, 1964	
Observations of Satellite 1961 Delta 1 (Explorer 9)	8
June 5 - August 6, 1961	
October 1 and December 6, 1961	
February 9 - March 1, 1962	
Observations of Satellite 1961 Alpha Delta 1 (Midas 4)	28
May 30 - July 14, 1962	
June 11 - 28, 1963	
July 1 - August 6, 1963	
October 26-29, 1963	
November 2-28, 1963	
February 9 - December 5, 1964	
Observations of Satellite 1962 Alpha Epsilon 1 (Telstar 1)	177
October 30 - 31, 1962	
August 14 - 24, 1963	
Observations of Satellite 1962 Beta Mu 1 (ANNA 1B)	179
November 17 - 21, 1962	
December 19 - 21, 1962	
February 28, April 22, September 14, and November 22, 1963	
December 9 - 21, 1963	
Observations of Satellite 1963 30A	183
December 6 - 25, 1964	
Observations of Satellite 1963 30D (Balloon)	188
January 12 - February 8, 1964	
April 4 - June 13, 1964	
September 13 - December 30, 1964	
Observations of Satellite 1963 53A (Explorer 19)	270
November 15 - 25, 1964	
Observation of Satellite 1964 38A (Elektron 3)	271
December 6 and 8, 1964	

INTRODUCTION¹

This catalog is the first SAO Special Report listing the positions of artificial satellites photographed simultaneously by Baker-Nunn cameras at two or more stations, and measured by the SAO Photoreduction Division. The films were taken at the SAO Astrophysical Observing Stations and cooperating Air Force² Baker-Nunn Camera Stations. The catalog includes all simultaneous observations precisely reduced that have been checked and found to be without significant errors.

The criterion of simultaneity is a minimum of 4 seconds (in time) overlap in the observed arc of each photographing station. In terms of position, each simultaneous arc will have at least one overlapping precisely reduced position.

These observations can be independently checked by determining their residuals from the best obtainable orbits. In practice, however, this is not so simple since the best orbits can be obtained only by the use of the same observations that are being checked. Thus we compute orbits regularly from only the precisely reduced observations, and reevaluate those that deviate considerably from the orbits. Then, the positions are used again to test whether or not their new residuals meet standards for publication.

Only orbits with a standard deviation σ of one observation not exceeding $\pm 20''$ are used as reference; on the average, the standard deviation is only between $\pm 5''$ and $\pm 10''$. All observations with residuals larger than $\pm 10''$ are examined to find whether the error is due to the observation or to the poor accuracy of the orbit.

¹This work was supported by grant Nsg 87-60 from the National Aeronautics and Space Administration.

²The simultaneous observations by the Air Force stations were made under a cooperative agreement between SAO and the 9th Aerospace Squadron (ADC). We wish to thank this organization for its help.

The present catalog includes 21 observations of Satellite 1960 Iota 2 (Echo 1 Rocket Body), 889 observations of Satellite 1961 Delta 1 (Explorer 9), 6669 observations of Satellite 1961 Alpha Delta 1 (Midas 4), 68 observations of Satellite 1962 Alpha Epsilon 1 (Telstar 1), 138 observations of Satellite 1962 Beta Mu 1 (ANNA 1B), 215 observations of Satellite 1963 30A, 3689 observations of Satellite 1963 30D (Balloon), 42 observations of Satellite 1963 53A (Explorer 19), and 24 observations of Satellite 1964 38A (Elektron 3).

The observations (both in position and in time) were reduced essentially by the method explained by the late K. Lassovszky in SAO Special Report 41 (Lassovszky et al., 1960). All the measurements have been made with two-screw Mann comparators.

Although the Baker-Nunn cameras can achieve an accuracy better than $\pm 2''$ in the positions (Lassovszky, 1961), the average results may not be so accurate. Until every position can be given with its proper uncertainty as obtained from the reduction, a standard deviation of $\pm 4''$ is assigned. Four seconds of arc is probably an upper limit on the standard deviation of a position.

The time accuracy of the observations depends primarily on the stability of the station clock and on the reception of the time signals. Uncertainties have been estimated according to these criteria; they vary from ± 0.5 msec to ± 10 msec, with an average value of ± 2 msec.

In order to expedite processing of the observations, we have found it necessary to employ a "smoothed preliminary" A.1 time system in the reductions. The "A.1" times reported for all observations in this catalog have been derived by employing the following reductions from the WWV emitted time system to our "smoothed preliminary" A.1 system:

<u>For the Period</u>		<u>A.1-WWV Emitted</u>
1961 July 01.0 - 1961 July 13.0		1.693 434 + 0.001 292 000 (t - 37,480.0)
1961 July 13.0 - 1961 Aug. 01.0		1.694 215 + 0.001 245 000 (t - 37,480.0)
1961 Aug. 01.0 - 1961 Sep. 21.0		1.643 160 + 0.001 280 000 (t - 37,480.0)
1961 Sep. 21.0 - 1961 Oct. 01.0		1.641 500 + 0.001 300 000 (t - 37,480.0)
1961 Oct. 01.0 - 1961 Nov. 01.0		1.642 184 + 0.001 290 764 (t - 37,480.0)
1961 Nov. 01.0 - 1962 Jan. 01.0		1.643 272 + 0.001 289 444 (t - 37,480.0)
1962 Jan. 01.0 - 1962 Apr. 01.0		1.865 000 + 0.001 123 200 (t - 37,650.0)
1962 Apr. 01.0 - 1962 July 01.0		1.864 620 + 0.001 126 800 (t - 37,650.0)
1962 July 01.0 - 1963 Jan. 01.0		1.864 704 + 0.001 126 370 (t - 37,650.0)
1963 Jan. 01.0 - 1963 Nov. 01.0		2.292 725 + 0.001 118 458 (t - 38,030.0)
1963 Nov. 01.0 - 1964 Jan. 01.0		2.392 725 + 0.001 118 458 (t - 38,030.0)
1964 Jan. 01.0 - 1964 Apr. 01.0		2.800 962 + 0.001 293 560 (t - 38,395.0)
1964 Apr. 01.0 - 1964 July 01.0		2.900 766 + 0.001 295 716 (t - 38,395.0)
1964 July 01.0 - 1964 Sep. 01.0		2.901 518 + 0.001 292 659 (t - 38,395.0)
1964 Sep. 01.0 - 1964 Oct. 01.0		3.001 518 + 0.001 292 659 (t - 38,395.0)
1964 Oct. 01.0 - 1965 Jan. 01.0		3.001 589 + 0.001 296 048 (t - 38,395.0)

where t is in Modified Julian Days, i.e., Julian Days minus 2,400,000.5 days.

The format of the catalog is as follows:

The first column gives the year, month and day of the observation.

The second column gives the time of the observation in hours, minutes and seconds in the "smoothed preliminary" A.1 system.

The third column gives the root mean-square (standard error) of the time expressed in milliseconds.

The fourth gives the topocentric right ascension expressed in hours, minutes and seconds of time; and the fifth, the topocentric declination in degrees, minutes and seconds of arc. These positions refer to the mean equator and equinox of 1950.0. Since the reference stars were not reduced to a common catalog system, it is not easy to define the R.A. and Decl. system. The errors that result from not using a common reference system are certainly less than one second of arc; Special Report 41 (Lassovszky et al., 1960) gives a list of the star catalog used, arranged according to the declination zone of each. The positions have not been corrected for parallactic refraction; correction will hardly ever exceed 2 seconds of arc.

The six column gives the standard error (RMS) of the position expressed in seconds of arc, always four in this catalog.

The seventh column gives the station number.

The following table gives the station location and number, and in addition to the stations, the X, Y, Z coordinates referenced to the Kaula ellipsoid; $f = 1/298.3$ and $a = 6.378165$ Mm. The description of the station coordinates and the datum to which they were connected by standard geodetic surveying techniques are given by Veis (1964).

Table 1

Station #	X(Mm)	Y(Mm)	Z(Mm)	Stations
9001	-1.535702	-5.167026	3.401108	Organ Pass, New Mexico
9002	5.056123	2.716523	-2.775799	Olifantsfontein, S. Africa
9003	-3.983602	3.743226	-3.275656	Woomera, Australia
9004	5.105623	-0.555194	3.769670	San Fernando, Spain
9005	-3.946522	3.366453	3.698855	Tokyo, Japan
9006	1.018135	5.471207	3.109519	Naini Tal, India
9007	1.942762	-5.804082	-1.796838	Arequipa, Peru
9008	3.376872	4.404022	3.136250	Shiraz, Iran
9009	2.251841	-5.816928	1.327236	Curaçao, Netherland Antilles
9010	0.976319	-5.601410	2.880311	Jupiter, Florida
9011	2.280645	-4.914512	-3.355441	Villa Dolores, Argentina
9012	-5.466118	-2.404068	2.242437	Maui, Hawaii
9114	-1.264795	-3.466933	5.185574	Cold Lake, Alberta, Canada
9115	3.121370	0.592748	5.512832	Harestua, Norway
9023	-3.977806	3.725297	-3.303181	Island Lagoon, Australia

The eighth column gives the film and frame number.

The ninth column gives in abbreviation the name of the measurer.

The tenth column gives the observation number assigned by SAO.

These observations are available on either punch cards or on the user's magnetic tape. All inquiries should be addressed to:

Data Division

Smithsonian Astrophysical Observatory

60 Garden Street

Cambridge, Massachusetts 02138

This catalog is the result of the work of many members of the staff of the Satellite Tracking Program of the Smithsonian Astrophysical Observatory, who contributed in different capacities. The final checking and preparation for publication were done by Mr. Richard Wells, Data Division, and Mrs. Janice MacDonald and members of the Data Section, Photoreduction Division.

References

BULLETIN OF THE NAVAL OBSERVATORY

1959. Time Service, Notice No. 6. U.S. Naval Observatory,
Washington, D. C., 3 pp.

IASSOVSKY, K.

1961. On the accuracy of measurements made upon films photographed
by Baker-Nunn satellite tracking cameras. Smithsonian
Astrophys. Obs., Special Report No. 74, 16 pp.

IASSOVSKY, K., et al.

1960. Catalogue of precise satellite positions. Smithsonian
Astrophys. Obs., Special Report No. 41, 37 pp.

VEIS, G.

1961. The positions of the Baker-Nunn camera stations. Smithsonian
Astrophys. Obs., Special Report No. 59, 5 pp.

VEIS, G.

1964. The deflection of the vertical of major geodetic datums and
the semimajor axis of the Earth's ellipsoid as obtained
from satellite observations. In Space Research V, ed. by
P. Muller, North-Holland Publ. Co., Amsterdam, pp. 849-875.

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 17	15 19 15.7613	1	5 28 34.926	- 8 10 43.28	4	9012	15917 S 3	FI	7506
11 17	15 19 14.7611	1	5 29 50.131	- 7 44 9.65	4	9012	15917 S 4	FI	7507
11 17	15 19 18.7613	1	5 31 6.113	- 7 17 7.88	4	9012	15917 S 5	FI	7508
11 17	15 19 22.7612	1	5 32 23.009	- 6 49 49.41	4	9012	15917 S 6	FI	7509
11 17	15 19 26.7612	1	5 33 39.947	- 6 22 5.72	4	9012	15917 S 7	FI	7510
11 17	15 19 30.7617	1	5 34 57.861	- 5 53 59.18	4	9012	15917 S 8	FI	8025
11 17	15 19 34.7612	1	5 36 16.309	- 5 25 29.80	4	9012	15917 S 9	FI	8026
11 17	15 22 55.5641	1	7 4 17.662	26 36 5.09	4	9012	15918 S 4	SS	8196
11 17	15 22 59.5641	1	7 6 43.662	27 21 49.48	4	9012	15918 S 5	SS	8701
11 17	15 23 3.5640	1	7 9 11.496	28 7 16.76	4	9012	15918 S 6	RD	8197
11 17	15 23 7.5639	1	7 11 41.581	28 52 58.07	4	9012	15918 S 7	RD	8198
11 17	15 23 11.5639	1	7 14 14.005	29 38 30.18	4	9012	15918 S 8	RD	8199
11 17	15 23 15.5638	1	7 16 49.392	30 24 6.17	4	9012	15918 S 9	AC	8200
11 17	15 23 19.5639	1	7 19 26.766	31 9 35.43	4	9012	15918 S10	AC	8201
12 28	6 51 43.6129	1	20 38 21.475	59 17 3.18	4	9012	16414 S12	GL	9692
12 28	6 51 51.6129	1	20 37 24.121	60 13 43.39	4	9012	16414 S14	GL	9693
12 28	6 51 59.6128	1	20 36 20.262	61 10 31.13	4	9012	16414 S16	GL	9694
12 28	6 52 3.6126	1	20 35 46.030	61 38 59.16	4	9012	16414 S17	GL	9695
12 28	6 52 7.6126	1	20 35 9.802	62 7 21.89	4	9012	16414 S18	GL	9696
12 28	6 52 11.6125	1	20 34 31.443	62 35 53.45	4	9012	16414 S19	GL	9697
12 28	6 52 15.6124	1	20 33 51.337	63 4 23.42	4	9012	16414 S20	GL	9698

DATE		TIME (A-I)		RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS.NO.		
Y	M	D	H	M	S	MS	H	M	S	D	M	S					
1961	6	5	6	40	49.0957	10	11	24	57.383	33	46	44.84	4	9001	3347 S 3	GN	698
	6	5	6	40	52.0859	10	11	26	2.742	33	56	31.54	4	9001	3347 S 4	GN	699
	6	5	6	40	57.0957	10	11	27	8.553	34	6	24.24	4	9001	3347 S 5	GN	700
	6	5	6	41	1.0871	10	11	28	14.732	34	16	8.44	4	9001	3347 S 6	GN	701
	6	5	6	41	5.0874	10	11	29	21.692	34	26	0.34	4	9001	3347 S 7	GN	702
	6	5	6	43	15.3353	10	12	11	49.743	39	54	40	4	9001	3347 S10	GN	703
	6	5	6	43	19.3367	10	12	13	21.522	40	4	5.95	4	9001	3347 S11	GN	704
	6	5	6	43	23.3378	10	12	14	54.241	40	15	2.45	4	9001	3347 S12	GN	705
	6	5	6	45	2.4577	10	12	59	33.591	44	23	6.95	4	9001	3347 S16	BK	706
	6	5	6	45	7.4509	10	13	1	36.699	44	32	28.88	4	9001	3347 S17	BK	707
	6	5	6	45	11.4600	10	13	3	41.69	44	41	45.28	4	9001	3347 S18	LE	708
	6	5	6	45	15.4610	10	13	5	46.920	44	50	58.59	4	9001	3347 S19	VD	709
	6	5	6	45	19.4612	10	13	7	54.295	45	0	3.88	4	9001	3347 S20	VD	710
	6	5	6	46	35.0545	10	13	52	34.314	47	33	12.97	4	9001	3347 S22	VD	711
	6	5	6	46	39.0556	10	13	55	11.424	47	39	56.77	4	9001	3347 S23	VD	712
	6	5	6	46	43.0575	10	13	57	50.64	47	46	33.18	4	9001	3347 S24	VD	713
	6	5	6	46	47.0589	10	14	0	30.303	47	52	59.28	4	9001	3347 S25	TM	714
	6	5	6	47	50.3116	10	14	45	57.164	49	6	42.28	4	9001	3347 S28	TM	715
	6	5	6	47	54.3128	10	14	49	1.14	49	9	17.59	4	9001	3347 S29	TM	716
	6	5	6	47	58.3146	10	14	52	5.744	49	11	39.68	4	9001	3347 S30	TM	717
	6	5	6	48	2.3150	10	14	55	12.184	49	13	46.98	4	9001	3347 S31	YN	718
	6	5	6	48	6.3169	10	14	58	19.673	49	15	33.88	4	9001	3347 S32	YN	719
	6	5	6	50	8.7331	10	16	38	35.807	47	32	40	4	9001	3347 S35	TM	720
	6	5	6	50	12.7309	10	16	40	13.397	47	28	18	4	9001	3347 S36	TM	721
	6	5	6	50	14.7309	10	16	41	51.618	47	23	50	4	9001	3347 S37	TM	722
	6	5	6	50	14.7310	10	16	43	29.477	47	19	14.42	4	9001	3347 S38	TM	723
	6	5	6	50	16.7320	10	16	45	6.587	47	14	37.72	4	9001	3347 S39	TM	724
	6	5	6	55	6.5938	10	19	44	4.578	26	36	3.98	4	9001	3347 S41	TM	725
	6	5	6	55	10.5949	10	19	45	45.88	26	16	14.88	4	9001	3347 S42	TM	726
	6	5	6	55	14.5960	10	19	47	24.498	25	56	33.38	4	9001	3347 S43	TM	727
	6	5	6	55	18.5990	10	19	49	3.108	25	36	51	4	9001	3347 S44	VD	728
	6	5	6	55	22.5993	10	19	50	40.578	25	17	9.19	4	9001	3347 S45	VD	729
	6	5	6	56	48.7401	10	20	22	9.242	18	28	51.39	4	9001	3347 S47	VD	730
	6	5	6	56	52.7401	10	20	23	28.131	18	10	45	4	9001	3347 S48	VD	731
	6	5	6	56	56.7400	10	20	24	46.472	17	52	41.58	4	9001	3347 S49	VD	732
	6	5	6	57	0.7789	10	20	26	4.182	17	34	44.58	4	9001	3347 S50	VD	733
	6	5	6	57	4.7702	10	20	27	20.992	17	16	53.68	4	9001	3347 S51	VD	734
	6	5	6	58	26.5526	1	17	16	1.314	32	39	16.76	4	9010	3533 S16	TM	679
	6	5	6	58	34.5544	1	17	21	34.824	32	9	34	4	9010	3533 S17	TM	680
	6	5	6	58	40.3948	10	20	55	11.70	10	36	6.56	4	9001	3347 S53	GN	735
	6	5	6	58	42.0566	1	17	27	8.295	31	38	32.36	4	9010	3533 S18	VD	681
	6	5	6	58	44.3956	10	20	56	14.990	10	2	22.65	4	9001	3347 S54	GN	736
	6	5	6	58	48.3957	10	20	57	18.31	10	4	49.46	4	9001	3347 S55	GN	737
	6	5	6	58	50.0591	1	17	32	42.284	31	6	8.67	4	9010	3533 S19	VD	682
	6	5	6	58	52.3972	10	20	58	21.97	9	49	21.19	4	9001	3347 S56	GN	738

Satellite 1961 Delta 1

5 June - 9 June 1961

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	CBS. NO.
1961	6 5	6 58 58.0605	17 38 16.215	30 32 32.86	4	9010	3533 S20	VD	683
6 5	6 59 29.6864	10	21 7 47.236	7 29 5.15	4	9001	3347 S58	BK	739
6 5	6 59 33.6877	10	21 8 46. 27	7 14 28	4	9001	3347 S59	BK	740
6 5	6 59 37.6883	10	21 9 44.666	6 59 57.55	4	9001	3347 S60	BK	741
6 5	6 59 41.6890	10	21 10 42.466	6 45 31.76	4	9001	3347 S61	BK	742
6 5	6 59 45.6881	10	21 11 45.126	6 31 15.36	4	9 01	3347 S62	BK	743
6 5	6 59 49.6890	10	21 12 37.876	6 16 53.55	4	9001	3347 S63	GN	744
6 5	6 59 53.6917	10	21 13 34.777	6 2 44.65	4	9001	3347 S64	BK	745
6 5	6 59 57.6929	10	21 14 31.886	5 48 39.26	4	9001	3347 S65	BK	746
6 5	7 0 1.6937	10	21 15 28. 17	5 34 35.76	4	9001	3347 S66	BK	747
6 5	7 0 4.1232	1	18 23 41.428	25 8 1.78	4	9010	3533 S22	VD	684
6 5	7 0 8.1242	1	18 26 23.146	24 45 55	4	9010	3533 S23	TM	685
6 5	7 0 12.1249	1	18 29 4.396	24 23 34.47	4	9010	3533 S24	TM	686
6 5	7 0 16.1256	1	18 31 44.807	24 58.97	4	9010	3533 S25	TM	687
6 5	7 0 20.1257	1	18 34 24.677	23 38 12.27	4	9010	3533 S26	TM	688
6 5	7 1 18.6735	1	19 12 7.500	17 42 50.30	4	9010	3533 S28	TM	689
6 5	7 1 22.6742	1	19 14 36.310	17 17 26.21	4	9010	3533 S29	TM	690
6 5	7 1 26.6748	1	19 17 3.880	16 51 57.80	4	9010	3533 S30	VD	691
6 5	7 1 30.6750	1	19 19 30.840	16 26 23.21	4	9010	3533 S31	VD	692
6 5	7 1 34.6753	1	19 21 56.750	16 0 43.30	4	9010	3533 S32	VD	693
6 5	7 1 38.6757	1	19 24 22. 50	15 35 1.21	4	9010	3533 S33	VD	694
6 6	8 42 5.5603	1	16 48 48.736	5 9 9.71	4	9010	3547 S 8	AY	767
6 6	8 42 1.6332	1	20 25 17.430	-16 39 41.63	4	9001	3359 S28	BW	852
6 6	8 42 5.6336	1	20 26 56.129	-16 55 18.93	4	9001	3359 S29	BW	853
6 6	8 42 8.5595	1	16 51 41.776	5 47 53.41	4	9010	3547 S 9	AY	766
6 6	8 42 9.6334	1	20 28 34.270	-17 10 47.13	4	9001	3359 S30	BW	854
6 6	8 42 13.6335	1	20 30 11.859	-17 26 9.43	4	9001	3359 S31	BW	855
6 6	8 42 21.5763	1	16 56 26.506	6 52 0	4	9010	3547 S10	AY	765
6 6	8 42 29.5775	1	16 59 23.376	7 32 7.61	4	9010	3547 S11	AY	764
6 6	8 42 37.5782	1	17 2 21.678	8 12 43.51	4	9010	3547 S12	AY	763
6 6	8 42 45.5786	1	17 5 21.218	8 53 51.92	4	9010	3547 S13	AY	762
6 6	8 42 53.5779	1	17 8 22.189	9 35 29.31	4	9010	3547 S14	AY	768
6 9	5 23 37.7151	1	16 58 51.147	43 23 38.31	4	9001	3376 S 4	YK	786
6 9	5 23 41.7139	1	17 1 21.628	43 8 43.31	4	9001	3376 S 5	YK	787
6 9	5 24 1.7031	1	17 13 32.548	41 51 45.12	4	9001	3376 S 9	YK	788
6 9	5 24 9.6991	1	17 18 14.767	41 20 5.12	4	9001	3376 S10	NL	789
6 9	5 24 13.6961	1	17 20 33.788	41 4 3.62	4	9001	3376 S11	NL	790
6 9	5 25 33.6631	1	18 2 11.711	35 25 44.50	4	9001	3376 S13	NL	791
6 9	5 25 37.6620	1	18 4 3.491	35 8 17.89	4	9001	3376 S14	NL	792
6 9	5 25 41.6609	1	18 5 54.267	34 50 45.95	4	9001	3376 S15	AY	793
6 9	5 25 49.6584	1	18 9 32.246	34 15 38.75	4	9001	3376 S17	AY	794
6 9	5 25 53.6570	1	18 11 19.366	33 58 7.65	4	9001	3376 S18	AY	795
6 9	5 25 57.6554	1	18 13 5.396	33 40 31.25	4	9001	3376 S19	AY	796
6 9	5 26 1.6541	1	18 14 50.607	33 22 56.55	4	9001	3376 S20	AY	797
6 9	5 26 5.6529	1	18 16 34.357	33 5 23.15	4	9001	3376 S21	AY	798

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1961 6 9	5 26 49.6412	1	18 34 31.418	29 52 42.38	4	9001	3376 S23	AY	799
6 9	5 26 53.6403	1	18 36 3.638	29 35 13.28	4	9001	3376 S24	FR	800
6 9	5 26 57.6388	1	18 37 34.848	29 17 52.38	4	9001	3376 S25	FR	801
6 9	5 27 1.6377	1	18 39 5.218	29 0 35.19	4	9001	3376 S26	AY	802
6 9	5 27 5.6353	1	18 40 35. 38	28 43 13.19	4	9001	3376 S27	AY	803
6 9	5 27 9.6327	1	18 42 3.248	28 25 52	4	9001	3376 S28	AY	804
6 9	5 27 13.6309	1	18 43 31.598	28 8 40	4	9001	3376 S29	AY	805
6 9	5 27 17.6287	1	18 44 58.478	27 51 21	4	9001	3376 S30	AY	806
6 9	5 27 21.6266	1	18 46 24.838	27 34 13.19	4	9001	3376 S31	AY	807
6 9	5 27 25.6238	1	18 47 50.188	27 17 3.48	4	9001	3376 S32	AY	808
6 9	5 27 29.6217	1	18 49 14.958	26 59 58.28	4	9001	3376 S33	AY	809
6 9	5 27 33.6194	1	18 50 38.748	26 42 54.88	4	9001	3376 S34	AY	810
6 9	5 27 37.6175	1	18 52 1.718	26 25 56.38	4	9001	3376 S35	AY	811
6 9	5 28 25.5961	1	19 7 43.130	23 5 43.78	4	9001	3376 S37	NL	812
6 9	5 28 29.5980	1	19 8 57.550	22 49 23.19	4	9001	3376 S38	NL	813
6 9	5 28 33.5924	1	19 10 11.380	22 33 6.48	4	9001	3376 S39	NL	814
6 9	5 28 37.5917	1	19 11 24. 60	22 16 55.48	4	9001	3376 S40	NL	815
6 9	5 28 41.5910	1	19 12 36.290	22 0 42.48	4	9001	3376 S41	NL	816
6 9	5 28 45.5903	1	19 13 48.270	21 44 34.19	4	9001	3376 S42	YK	817
6 9	5 28 49.5894	1	19 14 59.319	21 28 33.98	4	9001	3376 S43	YK	818
6 9	5 28 53.5882	1	19 16 9.979	21 12 34.19	4	9001	3376 S44	YK	819
6 9	5 28 57.5870	1	19 17 20. 69	20 56 39.78	4	9001	3376 S45	YK	820
6 9	5 29 1.5853	1	19 18 29.399	20 40 47.69	4	9001	3376 S46	YK	821
6 9	5 29 5.5834	1	19 19 38.360	20 25 2.28	4	9001	3376 S47	YK	822
6 9	5 29 1.5628	1	19 34 50.740	16 50 56.21	4	9001	3376 S50	YK	824
6 9	5 30 5.5615	1	19 35 52.420	16 36 4	4	9001	3376 S51	YK	825
6 9	5 30 9.5603	1	19 36 53.701	16 21 18.10	4	9001	3376 S52	NL	826
6 9	5 30 13.5585	1	19 37 54.781	16 6 36.80	4	9001	3376 S53	NL	827
6 9	5 30 17.5566	1	19 38 55. 0	15 52 0.80	4	9001	3376 S54	NL	828
6 9	5 30 21.5543	1	19 39 55. 70	15 37 27.71	4	9001	3376 S55	NL	829
6 9	5 30 25.5526	1	19 40 54.670	15 22 56.60	4	9001	3376 S56	NL	830
6 9	5 30 31.8929	1	16 30 47.339	36 27 12.20	4	9010	3563 S 3	NL	782
6 9	5 30 41.8919	1	16 35 56.809	36 0 17.10	4	9010	3563 S 4	NL	783
6 9	5 30 49.8918	1	16 41 5.388	35 32 20.60	4	9010	3563 S 5	NL	784
6 9	5 30 57.8922	1	16 46 12.669	35 3 22.20	4	9010	3563 S 6	NL	785
6 9	5 31 9.5333	1	19 51 26.191	12 48 5.39	4	9001	3376 S59	NL	831
6 9	5 31 13.5311	1	19 52 21.501	12 34 24.79	4	9001	3376 S60	SY	832
6 9	5 31 17.5287	1	19 53 16.791	12 20 46	4	9001	3376 S61	SY	833
6 9	5 31 21.5257	1	19 54 11. 61	12 7 14.69	4	9001	3376 S62	SY	834
6 9	5 31 25.5237	1	19 55 5.341	11 53 42.89	4	9001	3376 S63	YK	835
6 9	5 31 33.5204	1	19 56 53. 31	11 26 54.59	4	9001	3376 S65	YK	836
6 9	5 31 37.5187	1	19 57 46.481	11 13 32.89	4	9001	3376 S66	YK	837
6 9	5 31 41.5169	1	19 58 39.631	11 0 17.29	4	9001	3376 S67	YK	838
6 9	5 31 45.5158	1	19 59 32.461	10 47 7	4	9001	3376 S68	YK	839
6 9	5 31 49.5149	1	20 0 24.990	10 33 57.56	4	9001	3376 S69	AY	840

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	URS. NO.
1961 6 9	5 31 57.5130	1	20 2 9.250	10 7 54.65	4	9001	3376 S71	AY	841
6 9	5 32 1.5118	1	20 3 0.927	9 54 55.50	4	9001	3376 S72	AY	842
6 9	5 32 5.5107	1	20 3 5.257	9 42 3.50	4	9001	3376 S73	AY	843
6 9	5 32 9.5100	1	20 4 43.347	9 29 14.60	4	9001	3376 S74	AY	844
6 9	5 32 13.5091	1	20 5 34.147	9 16 30.69	4	9001	3376 S75	AY	845
6 9	5 32 21.5059	1	20 7 15.177	8 51 15.50	4	9001	3376 S77	AY	846
6 9	5 32 25.5044	1	20 8 5.547	8 38 35	4	9001	3376 S78	AY	847
6 9	5 32 29.5025	1	20 8 54.987	8 26 13.69	4	9001	3376 S79	AY	848
6 9	5 32 33.5012	1	20 9 44.467	8 13 42.90	4	9001	3376 S80	AY	849
6 9	5 32 37.4997	1	20 10 34.247	8 1 15.19	4	9001	3376 S81	AY	850
6 14	5 38 9.6823	1	14 54 22.74	26 56 55.26	4	9001	3401 S 4	GN	559
6 14	5 38 13.6808	1	14 56 34.315	26 45 32.56	4	9001	3401 S 5	GN	560
6 14	5 38 17.6798	1	14 58 46.234	26 33 42.86	4	9001	3401 S 6	GN	561
6 14	5 38 21.6760	1	15 0 57.671	26 21 45.32	4	9001	3401 S 7	GN	562
6 14	5 38 25.6736	1	15 3 8.891	26 9 35	4	9001	3401 S 8	GN	563
6 14	5 39 17.6708	1	15 31 11.11	23 17 59.62	4	9001	3401 S11	GN	564
6 14	5 39 21.6707	1	15 33 17.781	23 3 48	4	9001	3401 S12	GN	565
6 14	5 39 25.6708	1	15 35 24.301	22 49 30.42	4	9001	3401 S13	BK	566
6 14	5 39 29.6712	1	15 37 30.261	22 34 52	4	9001	3401 S14	BK	567
6 14	5 39 33.6713	1	15 39 36.91	22 20 19.31	4	9001	3401 S15	BK	568
6 14	5 39 41.6693	1	15 43 45.851	21 50 53.22	4	9001	3401 S17	BK	569
6 14	5 39 45.6682	1	15 45 50.81	21 36 0	4	9001	3401 S18	BK	570
6 14	5 42 1.5529	1	13 41 31.725	17 28 29	4	9010	3575 S 8	GN	697
6 14	5 42 1.6444	1	16 51 5.157	12 24 29.43	4	9001	3401 S23	GN	572
6 14	5 42 5.6441	1	16 52 50.387	12 7 41.52	4	9001	3401 S24	GN	573
6 14	5 42 9.6439	1	16 54 35.147	11 50 42.52	4	9001	3401 S25	GN	574
6 14	5 42 25.5542	1	13 49 18.565	16 39 15.60	4	9010	3575 S11	GN	696
6 14	5 42 33.5548	1	13 51 56.435	16 21 54.71	5	9010	3575 S12	GN	695
6 14	5 43 9.6351	1	17 19 39.128	7 39 16.59	4	9001	3401 S28	GN	575
6 14	5 43 13.6349	1	17 21 14.118	7 22 43.59	4	9001	3401 S29	BK	576
6 14	5 43 17.6343	1	17 22 49.479	7 6 10.59	4	9001	3401 S30	BK	577
6 14	5 44 37.6305	1	17 52 45.697	1 44 29.57	4	9001	3401 S38	BK	578
6 14	5 44 41.6308	1	17 54 10.418	1 28 49	4	9001	3401 S39	GN	579
6 14	5 44 45.6307	1	17 55 35.447	1 13 42.27	4	9001	3401 S40	BK	580
6 14	5 44 49.6302	1	17 56 59.468	0 57 48.68	4	9001	3401 S41	GN	581
6 14	5 44 53.6298	1	17 58 21.768	0 42 8.18	4	9001	3401 S42	BK	582
6 14	5 45 17.6294	1	18 6 31.741	0 48 25	5	9001	3401 S47	BK	583
6 14	5 45 21.6283	1	18 7 52.170	1 3 14.54	4	9001	3401 S48	BK	584
6 14	5 45 25.6267	1	18 9 11.510	1 17 57.74	4	9001	3401 S49	BK	585
7 1	17 31 6.9805	1	15 35 45.607	42 17 12.40	4	9002	3555 S 2	YN	872
7 1	17 31 10.9869	1	15 36 59.947	42 4 25.40	4	9002	3555 S 3	YN	873
7 1	17 31 12.7012	3	13 0 48.465	-38 56 30.68	4	9008	3888 S 6	PG	610
7 1	17 31 14.9927	1	15 38 14.628	41 51 30.70	4	9002	3555 S 4	YN	874
7 1	17 31 18.9990	1	15 39 28.187	41 38 47.60	4	9002	3555 S 5	YN	875
7 1	17 31 20.7012	3	13 2 57.595	-39 19 10.38	4	9008	3888 S 7	PG	611

Satellite 1961 Delta 1

1 July - 2 July 1961

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1961 7 1	17 31 28.7015	3	13 5 7.355	-39 41 41.78	9008	3888 S 8	PG	612
7 1	17 31 36.7719	3	13 7 16.473	-40 4 13.85	9008	3888 S 9	PG	613
7 1	17 31 12.4347	1	16 13 9.709	35 18 39.39	9002	3555 S 8	YN	876
7 1	17 23 20.4558	1	16 15 27.411	34 50 47.12	9002	3555 S 9	YN	877
7 1	17 33 28.4756	1	16 17 44.690	34 22 48.72	9002	3555 S10	LE	878
7 1	17 33 36.4926	1	16 20 1.991	33 54 38	9002	3555 S11	LE	879
7 1	17 37 25.6626	1	17 21 51.972	20 11 6.96	9002	3555 S14	LE	880
7 1	17 37 33.6740	1	17 23 56.152	19 42 28.15	9002	3555 S15	LE	881
7 1	17 37 41.6911	1	17 25 59.413	19 13 58.46	9002	3555 S16	LE	882
7 1	17 37 49.7063	1	17 28 2.822	18 45 24.65	9002	3555 S17	LE	883
7 2	10 3 9.7484	1	19 37 42.351	-18 58 0.53	9011	3028 S 3	BW	618
7 2	10 3 13.7496	1	19 39 28.771	-18 51 18.32	9011	3028 S 4	BW	619
7 2	10 3 17.7504	1	19 41 16.661	-18 44 20.43	9011	3028 S 5	BW	620
7 2	10 3 21.7488	10	19 43 5.241	-18 37 10.43	9011	3028 S 6	BW	621
7 2	10 3 25.7508	10	19 44 55. 91	-18 29 48.53	9011	3028 S 7	BW	622
7 2	10 3 29.7516	10	19 46 46.411	-18 22 10	9011	3028 S 8	BW	623
7 2	10 4 1.6943	1	19 7 18.721	-58 50 47.29	9007	3609 S 3	SY	901
7 2	10 4 5.6942	1	19 9 53.101	-59 4 59	9007	3609 S 4	SY	902
7 2	10 4 9.6938	1	19 12 31.381	-59 19 10.59	9007	3609 S 5	SY	903
7 2	10 4 13.6940	1	19 15 13.511	-59 33 24.69	9007	3609 S 6	YK	904
7 2	10 4 17.6944	1	19 17 59.781	-59 47 40.69	9007	3609 S 7	YK	905
7 2	10 4 21.6948	1	19 32 57.605	-60 59 4.47	9007	3609 S12	YK	906
7 2	10 4 25.6952	1	19 36 11.805	-61 13 16.86	9007	3609 S13	YK	907
7 2	10 4 29.6956	1	19 39 31.475	-61 27 29.36	9007	3609 S14	YK	908
7 2	10 4 33.6960	1	19 42 55.765	-61 41 35.77	9007	3609 S15	YK	909
7 2	10 4 37.6964	1	19 46 26. 45	-61 55 40.16	9007	3609 S16	YK	910
7 2	10 4 41.6968	1	19 50 1.815	-62 9 38.47	9007	3609 S17	YK	911
7 2	10 4 45.6972	1	19 53 44. 15	-62 23 33.97	9007	3609 S18	SY	912
7 2	10 4 49.6976	1	19 57 32.485	-62 37 14.27	9007	3609 S19	SY	913
7 2	10 5 3.6980	1	20 1 27. 30	-62 50 54.19	9007	3609 S20	SY	914
7 2	10 5 7.6984	1	20 5 28.810	-63 4 20.89	9007	3609 S21	SY	915
7 2	10 5 11.6988	1	20 9 36.940	-63 17 39.79	9007	3609 S22	SY	916
7 2	10 5 15.6992	1	20 13 52.260	-63 30 45.50	9007	3609 S23	SY	917
7 2	10 5 19.6996	1	20 18 14.840	-63 43 39	9007	3609 S24	SY	918
7 2	10 5 23.6999	1	20 22 44.910	-63 56 16.39	9007	3609 S25	YK	919
7 2	10 5 27.7003	1	20 27 22.510	-64 8 40	9007	3609 S26	YK	920
7 2	10 5 31.7007	1	20 32 7.710	-64 20 41.59	9007	3609 S27	YK	921
7 2	10 5 35.7011	1	20 37 1.320	-64 32 22.59	9007	3609 S28	YK	922
7 2	10 5 39.7015	10	21 0 33.662	-11 21 4.80	9011	3028 S24	BW	624
7 2	10 5 43.7019	1	20 42 2.700	-64 43 42.50	9007	3609 S29	YK	923
7 2	10 5 47.7023	10	21 3 13.441	-11 1 54.90	9011	3028 S25	BW	625
7 2	10 5 51.7027	1	20 47 13.290	-64 54 35.89	9007	3609 S30	YK	924
7 2	10 5 55.7031	10	21 5 54.961	-10 42 18.21	9011	3028 S26	BW	626
7 2	10 5 59.7035	1	20 52 32. 17	-65 5 6.65	9007	3609 S31	YK	925
7 2	10 5 63.7039	10	21 8 38.131	-10 22 13.80	9011	3028 S27	BW	627

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1961	7 2 10	5 57.7017	20 57 59.97	-65 15 7	4	9007	3609 S32	YK	926
	7 2 10	5 57.9341	21 11 22.822	-10 1 40.90	4	9011	3028 S28	BW	628
	7 2 10	6 25.7076	21 40 12.988	-66 7 53	4	9007	3609 S39	SY	927
	7 2 10	6 29.7081	21 46 48.998	-66 12 24.95	4	9007	3609 S40	SY	928
	7 2 10	6 33.7080	21 53 32.648	-66 16 1.36	4	9007	3609 S41	SY	929
	7 2 10	6 37.7080	22 0 24.85	-66 18 41.69	4	9007	3609 S42	SY	930
	7 2 10	6 41.7086	22 7 22.115	-66 20 18.99	4	9007	3609 S43	SY	931
	7 2 10	6 45.7083	22 14 27.635	-66 20 50.79	4	9007	3609 S44	SY	932
	7 2 10	6 49.7089	22 21 39.175	-66 20 19.99	4	9007	3609 S45	SY	933
	7 2 10	6 53.7094	22 28 50.255	-66 18 37.88	4	9007	3609 S46	YK	934
	7 2 10	6 57.7095	22 36 19.65	-66 15 41.38	4	9007	3609 S47	YK	935
	7 2 10	7 1.4072	21 58 33.83	3 33 49.81	4	9011	3028 S30	BW	630
	7 2 10	7 1.7099	22 43 46.975	-66 11 30.38	4	9007	3609 S48	YK	936
	7 2 10	7 5.4083	22 1 44.708	3 5 34	4	9011	3028 S31	BW	631
	7 2 10	7 5.7104	22 51 15.745	-66 6 0.49	4	9007	3609 S49	YK	937
	7 2 10	7 9.4114	22 4 57.609	2 36 40.59	4	9011	3028 S32	BW	632
	7 2 10	7 13.4114	22 8 11.759	2 7 36.20	4	9011	3028 S33	BW	633
	7 2 10	7 13.7112	23 6 24.571	-65 50 57	4	9007	3609 S51	YK	938
	7 2 10	7 17.4134	22 11 27.798	1 38 2	4	9011	3028 S34	BW	634
	7 2 10	7 17.7116	23 14 1.691	-65 41 20.11	4	9007	3609 S52	YK	939
	7 2 10	7 21.4143	22 14 44.579	1 8 11.80	4	9011	3028 S35	BW	635
	7 2 10	7 21.7116	23 21 38.801	-65 30 12.71	4	9007	3609 S53	SY	940
	7 2 10	7 25.4154	22 18 3.89	0 37 49.80	4	9011	3028 S36	BW	636
	7 2 10	7 25.7121	23 29 15.811	-65 17 40.31	4	9007	3609 S54	SY	941
	7 2 10	7 29.7122	23 36 51.281	-65 3 35	4	9007	3609 S55	SY	942
	7 2 10	7 33.7127	23 44 24.893	-64 48 0.27	4	9007	3609 S56	SY	943
	7 2 10	7 37.7177	0 28 23.666	-62 42 10	4	9007	3609 S62	SY	944
	7 2 10	8 1.7180	0 35 23.506	-62 15 50.43	4	9007	3609 S63	SY	945
	7 2 10	8 5.7186	0 42 15.856	-61 48 2.83	4	9007	3609 S64	SY	946
	7 2 10	8 9.7193	0 49 1.356	-61 18 46.43	4	9007	3609 S65	YK	947
	7 2 10	8 12.9694	22 58 44.103	5 45 15	4	9011	3028 S37	BW	637
	7 2 10	8 13.7195	0 55 38.766	-60 48 0.53	4	9007	3609 S66	YK	948
	7 2 10	8 16.9704	23 2 15.565	6 18 51.90	4	9011	3028 S38	BW	638
	7 2 10	8 17.7196	1 2 8.93	-60 15 54.95	4	9007	3609 S67	YK	949
	7 2 10	8 20.9723	23 5 47.176	6 52 31.30	4	9011	3028 S39	BW	639
	7 2 10	8 21.7200	1 8 28.771	-59 42 21.77	4	9007	3609 S68	YK	950
	7 2 10	8 24.9742	23 9 19.315	7 26 14.60	4	9011	3028 S40	BW	640
	7 2 10	8 25.7205	1 14 41.310	-59 7 28.88	4	9007	3609 S69	YK	951
	7 2 10	8 28.9750	23 12 51.986	8 0 4.50	4	9011	3028 S41	BW	641
	7 2 10	8 29.7208	1 20 45.91	-58 31 20.18	4	9007	3609 S70	YK	952
	7 2 10	8 32.9759	23 16 25.36	8 33 53.90	4	9011	3028 S42	BW	642
	7 2 10	8 33.7218	1 26 40.711	-57 53 52.38	4	9007	3609 S71	YK	953
	7 2 10	8 36.9778	23 19 58.616	9 7 44.30	4	9011	3028 S43	BW	643
	7 2 10	9 17.7367	2 22 35.220	-49 50 44	4	9007	3609 S82	SY	954
	7 2 10	9 21.7375	2 26 53.380	-49 1 38.86	4	9007	3609 S83	SY	955

DATE Y M D	TIME (A-I) P M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1961	7 2	10	9 25.7386	1	9007	3609 S84	SY	956
	7 2	10	9 28.7394	1	9007	3609 S85	SY	957
	7 2	10	9 33.7398	1	9007	3609 S86	SY	958
	7 2	10	9 37.7414	1	9007	3609 S87	YK	959
	7 2	10	9 41.7428	1	9007	3609 S88	YK	960
	7 2	10	9 45.7441	1	9007	3609 S89	YK	961
	7 2	10	9 49.7455	1	9007	3609 S90	YK	962
	7 2	10	9 53.7466	1	9007	3609 S91	YK	963
	7 3	9	43 13.6980	1	9007	3621 S 9	PG	586
	7 3	9	43 17.6983	1	9007	3621 S10	PG	587
	7 3	9	43 21.6986	1	9007	3621 S11	PG	588
	7 3	9	43 25.6990	1	9007	3621 S12	PG	589
	7 3	9	43 29.7020	1	9011	3041 S11	TM	498
	7 3	9	43 29.6996	1	9007	3621 S13	PG	590
	7 3	9	43 29.7528	1	9011	3041 S12	TM	497
	7 3	9	43 33.7541	1	9011	3041 S13	TM	499
	7 3	9	43 37.7552	1	9011	3041 S14	TM	500
	7 3	9	43 41.7562	1	9011	3041 S15	TM	501
	7 3	9	43 45.7571	1	9011	3041 S16	TM	502
	7 3	9	44 1.7434	1	9011	3041 S20	TM	503
	7 3	9	44 5.7448	1	9011	3041 S21	TM	504
	7 3	9	44 9.7594	1	9011	3041 S22	TM	505
	7 3	9	44 13.7613	1	9011	3041 S23	TM	506
	7 3	9	44 17.7628	1	9011	3041 S24	YN	507
	7 3	9	44 21.7642	1	9011	3041 S25	YN	508
	7 3	9	44 25.7651	1	9011	3041 S26	YN	509
	7 3	9	44 29.7663	1	9011	3041 S27	YN	510
	7 3	9	44 33.7677	1	9011	3041 S28	YN	511
	7 3	9	44 37.7690	1	9011	3041 S29	YN	512
	7 3	9	44 41.6994	1	9007	3621 S15	PG	591
	7 3	9	44 45.7015	1	9007	3621 S16	PG	592
	7 3	10	44 49.7023	10	9007	3621 S17	PG	593
	7 3	9	44 53.7028	1	9007	3621 S18	PG	594
	7 3	9	44 57.7040	1	9007	3621 S19	PG	595
	7 3	9	45 3.7854	1	9011	3041 S44	YN	513
	7 3	9	45 41.7899	1	9011	3041 S45	YN	514
	7 3	9	45 45.7896	1	9011	3041 S46	YN	515
	7 3	9	45 49.7913	1	9011	3041 S47	YN	516
	7 3	9	45 53.7938	1	9011	3041 S48	GN	517
	7 3	9	45 57.7955	1	9011	3041 S49	GN	518
	7 3	9	46 1.7973	1	9011	3041 S50	GN	519
	7 3	9	46 5.7088	1	9007	3621 S21	YN	596
	7 3	9	46 9.7092	1	9011	3041 S51	GN	520
	7 3	9	46 13.7115	1	9007	3621 S22	YN	597
	7 3	9	46 17.7134	1	9011	3041 S52	GN	521

DATE			TIME (A-L)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS. NO.
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S				
Satellite 1961 Delta 1																	
3 July 1961																	
1961	7	3	5	46	13.7125	1	0	7	23.586	-62	54	35.83	4	9007	3621 S23	YN	598
	7	3	5	46	13.8032	1	22	28	49.601	0	14	49.60	4	9011	3041 S53	GN	522
	7	3	5	46	17.1138	1	0	14	0.896	-62	30	52.93	4	9007	3621 S24	YN	599
	7	3	5	46	17.8054	1	22	32	10.981	0	45	57.20	4	9011	3041 S54	GN	523
	7	3	5	46	21.7168	1	0	20	32.156	-62	5	54.73	4	9007	3621 S25	YN	600
	7	3	5	46	21.8067	1	22	35	33.281	1	17	16.80	4	9011	3041 S55	GN	524
	7	3	5	46	25.7185	1	0	26	57.206	-61	39	37	4	9007	3621 S26	YN	601
	7	3	5	46	25.8087	1	22	38	56.161	1	48	47.50	4	9011	3041 S56	GN	525
	7	3	5	47	5.8246	1	23	13	13.6	7	12	12.10	4	9011	3041 S66	BK	526
	7	3	5	47	9.8275	1	23	16	40.546	7	44	52.10	4	9011	3041 S67	LE	527
	7	3	5	47	13.8302	1	23	20	7.866	8	17	28.30	4	9011	3041 S68	LE	528
	7	3	5	47	17.8329	1	23	23	35.116	8	49	57.90	4	9011	3041 S69	LE	529
	7	3	5	47	21.8353	1	23	27	2.236	9	22	33.80	4	9011	3041 S70	LE	530
	7	3	5	47	25.8379	1	23	30	29.166	9	54	55.30	4	9011	3041 S71	LE	531
	7	3	5	47	29.8405	1	23	33	56.121	10	27	10.77	4	9011	3041 S72	LE	532
	7	3	5	47	33.8430	1	23	37	22.561	10	59	20.57	4	9011	3041 S73	LE	533
	7	3	5	47	37.7257	1	2	1	49.838	-50	36	40.70	4	9007	3621 S29	GN	602
	7	3	5	47	37.8455	1	23	40	48.971	11	31	17.77	4	9011	3041 S74	LE	534
	7	3	5	47	41.7281	1	2	5	59.180	-49	51	30.56	4	9007	3621 S30	GN	603
	7	3	5	47	41.8483	1	23	44	14.991	12	3	4.57	4	9011	3041 S75	LE	535
	7	3	5	47	45.7310	1	2	10	2.300	-49	5	46.17	4	9007	3621 S31	GN	604
	7	3	5	47	45.8506	1	23	47	40.251	12	34	43	4	9011	3041 S76	LE	536
	7	3	5	47	49.7332	1	2	13	58.990	-48	19	26.36	4	9007	3621 S32	GN	605
	7	3	5	47	45.8534	1	23	51	5.271	13	6	2.38	4	9011	3041 S77	TM	537
	7	3	5	47	53.7361	1	2	17	49.940	-47	32	39.27	4	9007	3621 S33	GN	606
	7	3	5	47	57.7392	1	2	21	35.220	-46	45	19	4	9007	3621 S34	GN	607
	7	3	5	48	1.7409	1	2	25	14.670	-45	57	37.27	4	9007	3621 S35	GN	608
	7	3	5	48	5.7437	1	2	28	48.970	-45	9	29.56	4	9007	3621 S36	GN	609
	7	3	5	48	21.8709	1	0	18	1.452	17	7	18.55	4	9011	3041 S85	TM	538
	7	3	5	48	25.8749	1	0	21	20.32	17	35	55.15	4	9011	3041 S86	TM	539
	7	3	5	48	29.8787	1	0	24	37.482	18	4	25.85	4	9011	3041 S87	TM	540
	7	3	5	48	33.8824	1	0	27	54.102	18	32	23.55	4	9011	3041 S88	TM	541
	7	3	5	48	37.8864	1	0	31	9.612	19	0	2.15	4	9011	3041 S89	TM	542
	7	3	5	48	41.8897	1	0	34	23.912	19	27	17.65	4	9011	3041 S90	YN	543
	7	3	5	48	45.8931	1	0	37	37.202	19	54	12.86	4	9011	3041 S91	YN	544
	7	3	5	48	49.8970	1	0	40	49.439	20	20	41.65	4	9011	3041 S92	YN	545
	7	3	5	48	53.9007	1	0	44	0.370	20	46	49.25	4	9011	3041 S93	YN	546
	7	3	5	48	57.9037	1	0	47	10.99	21	12	30.65	4	9011	3041 S94	YN	547
	7	3	5	49	1.9076	1	0	50	18.519	21	37	53.85	4	9011	3041 S95	LE	548
	7	3	5	49	5.9101	1	0	53	25.789	22	2	49.65	4	9011	3041 S96	LE	549
	7	3	5	50	1.9258	1	1	34	45.671	27	9	33.30	4	9011	3041 S99	BK	551
	7	3	5	50	5.9290	1	1	37	32.371	27	28	42.21	4	9011	3041 S	LE	552
	7	3	5	50	9.9329	1	1	40	17.761	27	47	22	4	9011	3041 S 1	LE	553
	7	3	5	50	13.9365	1	1	43	1.491	28	5	39.40	4	9011	3041 S 2	TM	554
	7	3	5	50	17.9400	1	1	45	43.881	28	23	37.90	4	9011	3041 S 3	TM	555

Satellite 1961 Delta 1

3 July - 5 July 1961

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1961 7 3	5 50 21.9441	1	1 48 24.701	28 41 13.61	9011	3041 S 4	TM	556
7 3	9 50 25.9477	1	1 51 4.511	28 58 29.71	9011	3041 S 5	BK	557
7 3	9 50 25.9668	1	1 53 43.281	29 15 27.30	9011	3041 S 6	TM	558
7 5	C 17 29.7077	1	12 8 38.543	37 23 7.72	9007	3639 S 5	SD	964
7 5	C 17 33.7097	1	12 10 9.543	37 12 58	9007	3639 S 6	SD	965
7 5	C 17 37.7107	1	12 11 40.602	37 2 40.82	9007	3639 S 7	HY	966
7 5	C 18 37.7131	1	12 34 42.392	34 15 30.72	9007	3639 S 9	HY	967
7 5	C 18 41.7156	1	12 36 15.562	34 3 28.31	9007	3639 S10	HY	968
7 5	C 18 45.7182	1	12 37 48.682	33 51 17.12	9007	3639 S11	HY	969
7 5	C 18 49.7196	1	12 39 22. 83	33 39 0	9007	3639 S12	SD	970
7 5	C 18 53.7210	1	12 40 55.743	33 26 36.52	9007	3639 S13	SD	971
7 5	C 20 5.7280	1	13 9 15.697	29 22 58.21	9007	3639 S15	SD	972
7 5	C 20 9.7313	1	13 10 51.128	29 8 16.11	9007	3639 S16	SD	973
7 5	C 20 13.7336	1	13 12 26.968	28 53 23.71	9007	3639 S17	SD	974
7 5	C 20 17.7362	1	13 14 2.568	28 38 29.11	9007	3639 S18	SD	975
7 5	C 20 21.7403	1	13 15 38.368	28 23 24.21	9007	3639 S19	HY	976
7 5	C 21 37.7488	1	13 46 14.293	23 14 18.79	9007	3639 S21	HY	977
7 5	C 21 41.7539	1	13 47 51.873	22 56 54	9007	3639 S22	HY	978
7 5	C 21 45.7596	1	13 49 29.453	22 39 16.50	9007	3639 S23	HY	979
7 5	C 21 49.7633	1	13 51 7.153	22 21 35.39	9007	3639 S24	HY	980
7 5	C 21 53.7668	1	13 52 44.763	22 3 47.39	9007	3639 S25	HY	981
7 5	C 23 1.7812	1	14 20 34.931	16 45 49.27	9007	3639 S28	SD	982
7 5	C 23 5.7860	1	14 22 13.791	16 26 14.67	9007	3639 S29	SD	983
7 5	C 23 9.7912	1	14 23 52.751	16 6 37.87	9007	3639 S30	SD	984
7 5	C 23 13.7970	1	14 25 31.661	15 46 53.47	9007	3639 S31	SD	985
7 5	C 24 37.8306	1	15 0 13.770	8 38 48.46	9007	3639 S36	SD	986
7 5	C 24 41.8362	1	15 1 53.100	8 17 56.56	9007	3639 S37	SD	987
7 5	C 25 53.8563	1	15 31 38.932	2 2 19.69	9007	3639 S40	HY	988
7 5	C 25 57.8627	1	15 33 17.932	1 41 33.19	9007	3639 S41	HY	989
7 5	C 26 1.8692	1	15 34 57. 52	1 20 52.59	9007	3639 S42	HY	990
7 5	C 26 5.8761	1	15 36 36. 12	1 0 13	9007	3639 S43	HY	991
7 5	C 27 17.8982	1	16 6 6.847	5 1 2.41	9007	3639 S45	HY	992
7 5	C 27 21.9064	1	16 7 44.736	5 20 24.81	9007	3639 S46	HY	993
7 5	C 27 25.9142	1	16 9 22.646	5 39 41.91	9007	3639 S47	HY	994
7 5	C 27 29.9226	1	16 11 0.376	5 58 53.91	9007	3639 S48	SD	995
7 5	C 27 33.9302	1	16 12 38. 6	6 18 0.51	9007	3639 S49	SD	996
7 5	C 28 45.9473	1	16 41 35. 30	-11 42 34	9007	3639 S52	SD	997
7 5	C 28 53.9638	1	16 44 46.180	-12 16 19.96	9007	3639 S54	SD	998
7 5	C 30 13.9969	1	17 16 2.550	-17 24 24.78	9007	3639 S58	HY	999
7 5	C 30 22.0132	1	17 19 7.239	-17 52 17.59	9007	3639 S60	HY	1000
7 5	C 30 32.2189	1	16 12 53.197	11 16 26.63	9011	3063 S 9	FR	644
7 5	C 30 41.2244	1	16 15 47.327	10 46 38.32	9011	3063 S10	FR	645
7 5	C 30 49.2298	1	16 18 41.707	10 16 40.23	9011	3063 S11	FR	646
7 5	C 30 57.2349	1	16 21 36.342	9 46 45.44	9011	3063 S12	FR	647
7 5	C 31 25.5732	1	16 31 56.812	8 0 53.15	9011	3063 S15	FR	649

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A.-(1950.0) H M S	DECL.-(1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1961 7 5	0 31 33.5789	1	16 34 52.572	7 30 57.65	4	9011	3063 S16	FR	650
7 6	8 41 41.7404	1	22 19 22.689	3 20 41.69	4	9011	3066 S18	FR	651
7 6	8 41 45.7413	1	22 22 29.159	2 52 27.19	4	9011	3066 S19	FR	652
7 6	8 41 49.7420	1	22 25 35.259	2 24 13	4	9011	3066 S20	FR	653
7 6	8 41 53.7428	1	22 28 41.989	1 55 45.50	4	9011	3066 S21	FR	654
7 6	8 41 57.7438	1	22 31 47.968	1 27 7.10	4	9011	3066 S22	FR	655
7 6	8 42 1.7445	1	22 34 54.239	0 58 24	4	9011	3066 S23	FR	656
7 6	8 42 5.7454	1	22 38 0.89	0 29 34.50	4	9011	3066 S24	FR	657
7 6	8 42 9.7461	1	22 41 6.368	0 0 45	4	9011	3066 S25	FR	658
7 6	8 42 13.7469	1	22 44 11.661	0 28 18.90	4	9011	3066 S26	FR	659
7 6	8 42 17.7476	1	22 47 17.191	0 57 19.90	4	9011	3066 S27	FR	660
7 6	8 42 54.7176	1	1 24 43.866	-47 53 57.35	4	9007	3655 S24	NL	892
7 6	8 42 56.7177	1	1 26 19.837	-47 34 55.75	4	9007	3655 S25	NL	893
7 6	8 42 57.7626	1	23 17 48.895	5 46 58.60	4	9011	3066 S37	FR	661
7 6	8 42 58.7177	1	1 27 54.776	-47 15 46.95	4	9007	3655 S26	NL	894
7 6	8 43 0.7176	1	1 29 28.926	-46 56 33.25	4	9007	3655 S27	NL	895
7 6	8 43 1.7669	1	23 20 49.6	6 15 31.90	4	9011	3066 S38	FR	662
7 6	8 43 2.7177	1	1 31 1.676	-46 37 15.65	4	9007	3655 S28	NL	896
7 6	8 43 4.7175	1	1 32 34.226	-46 17 53.75	4	9007	3655 S29	NL	897
7 6	8 43 6.7177	1	1 34 5.457	-45 58 29.25	4	9007	3655 S30	NL	898
7 6	8 43 8.7176	1	1 35 35.806	-45 38 55.65	4	9007	3655 S31	NL	899
7 6	8 43 9.7556	1	23 26 46.426	7 12 25	4	9011	3066 S40	AY	663
7 6	8 43 10.7176	1	1 37 4.866	-45 19 22.55	4	9007	3655 S32	NL	900
7 6	8 43 13.7569	1	23 29 44.486	7 40 34.50	4	9011	3066 S41	AY	664
7 6	8 43 17.7584	1	23 32 41.686	8 8 30.30	4	9011	3066 S42	AY	665
7 6	8 43 21.7600	1	23 35 37.986	8 36 26.40	4	9011	3066 S43	AY	666
7 6	8 43 25.7614	1	23 38 33.446	9 4 4.50	4	9011	3066 S44	AY	667
7 6	8 43 29.7628	1	23 41 28.286	9 31 31.30	4	9011	3066 S45	SD	668
7 6	8 43 33.7646	1	23 44 22.26	9 58 53	4	9011	3066 S46	SD	669
7 6	8 43 37.7662	1	23 47 14.681	10 25 55.48	4	9011	3066 S47	SD	670
7 6	8 43 41.7672	1	23 50 6.731	10 52 46.27	4	9011	3066 S48	SD	671
7 6	8 43 45.7690	1	23 52 58.41	11 19 24.38	4	9011	3066 S49	FR	672
7 6	8 44 1.7868	1	0 31 4.312	17 4 43.96	4	9011	3066 S63	FR	673
7 6	8 44 45.7889	1	0 33 40.52	17 27 23.15	4	9011	3066 S64	FR	674
7 6	8 44 49.7914	1	0 36 13.822	17 49 39.15	4	9011	3066 S65	FR	675
7 6	8 44 53.7934	1	0 38 46.791	18 11 37.85	4	9011	3066 S66	FR	676
7 6	8 45 1.7970	1	0 43 49.152	18 54 43.55	4	9011	3066 S68	SD	677
7 6	8 45 5.7993	1	0 46 18.992	19 15 49.86	4	9011	3066 S69	SD	678
7 9	1 1 53.0504	1	12 39 21.919	-22 9 26.92	4	9007	3694 S 4	GN	884
7 9	1 1 58.7700	1	12 42 22.581	7 43 59.56	4	9011	3074 S 2	LE	465
7 9	1 2 1.0507	1	12 42 7.319	-22 52 51.11	4	9007	3694 S 5	GN	885
7 9	1 2 6.7697	1	12 44 26.411	7 19 51.67	4	9011	3074 S 3	LE	466
7 9	1 2 9.0505	1	12 44 54.979	-23 36 25.71	4	9007	3694 S 6	GN	886
7 9	1 2 14.7699	1	12 46 32.171	6 55 26.36	4	9011	3074 S 4	LE	467
7 9	1 2 22.7700	1	12 48 38.791	6 30 46.67	4	9011	3074 S 5	LE	468

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1961 7 9	1 2 30.7698	1	12 50 46.391	6 5 47.96	4	9011	3074 S 6	LE	469
7 9	1 2 34.7507	1	12 54 9.178	-25 57 11.36	4	9007	3694 S 8	GN	887
7 9	1 2 42.7507	1	12 57 7.29	-26 41 13.65	4	9007	3694 S 9	GN	888
7 9	1 3 6.7511	1	13 6 16.572	-28 53 35.69	4	9007	3694 S12	GN	890
7 9	1 3 10.7689	1	13 1 43.730	3 56 48.78	4	9011	3074 S11	LE	470
7 9	1 3 14.7515	1	13 9 25.362	-29 37 41	4	9007	3694 S13	GN	891
7 9	1 3 18.7686	1	13 3 58.980	3 30 12.69	4	9011	3074 S12	LE	471
7 9	1 3 26.7687	1	13 6 15.711	3 3 17.39	4	9011	3074 S13	LE	472
7 9	1 3 34.7687	1	13 8 33.821	2 36 4.58	4	9011	3074 S14	VD	473
7 9	1 3 42.7685	1	13 10 53.651	2 8 34.59	4	9011	3074 S15	VD	474
7 9	1 3 50.7687	1	13 13 14.671	1 40 45	4	9011	3074 S16	VD	475
7 9	1 4 38.7683	1	13 27 54.62	1 11 59.62	4	9011	3074 S18	VD	476
7 9	1 4 46.7682	1	13 30 26.572	1 41 47.93	4	9011	3074 S19	PG	477
7 9	1 4 54.7683	1	13 33 0.722	2 11 52.23	4	9011	3074 S20	PG	478
7 9	1 5 2.7683	1	13 35 36.652	2 42 13.62	4	9011	3074 S21	PG	479
7 9	1 5 10.7682	1	13 38 14.612	3 12 50.12	4	9011	3074 S22	PG	480
7 9	1 5 18.7679	1	13 40 54.212	3 43 46.32	4	9011	3074 S23	VD	481
7 9	1 6 14.7679	1	14 0 27.510	7 27 14.48	4	9011	3074 S26	VD	482
7 9	1 6 22.7679	1	14 3 23.649	8 0 7.67	4	9011	3074 S27	VD	483
7 9	1 6 30.7678	1	14 6 22.119	8 33 14.88	4	9011	3074 S28	VD	484
7 9	1 6 38.7674	1	14 9 22.699	9 6 29.47	4	9011	3074 S29	VD	485
7 9	1 6 46.7674	1	14 12 25.520	9 39 58.87	4	9011	3074 S30	VD	486
7 9	1 6 54.7674	1	14 15 30.737	-10 13 39.24	4	9011	3074 S31	LE	487
7 9	1 7 42.7632	1	14 34 53.578	-13 38 20.53	4	9011	3074 S33	LF	488
7 9	1 7 50.7629	1	14 38 15.907	-14 12 47.24	4	9011	3074 S34	LE	489
7 9	1 7 58.7630	1	14 41 41.197	-14 47 20.94	4	9011	3074 S35	LE	490
7 9	1 8 6.7626	1	14 45 8.886	-15 21 52.86	4	9011	3074 S36	LE	492
7 9	1 8 14.7625	1	14 48 39.166	-15 56 26.46	4	9011	3074 S37	BK	493
7 9	1 8 22.7623	1	14 52 12.556	-16 30 57.66	4	9011	3074 S38	LE	494
7 9	1 8 30.7622	1	14 55 48.586	-17 5 25.36	4	9011	3074 S39	LE	495
7 9	1 8 38.7618	1	14 59 26.935	-17 39 50	4	9011	3074 S40	LE	496
7 12	C 1 29.7064	1	15 3 58.440	-49 39 48.15	4	9007	3737 S27	RO	2359
7 12	C 1 37.7769	1	14 2 51.690	-11 44 18.90	4	9011	3082 S27	LE	2382
7 12	C 1 45.7063	1	15 15 0.1	-50 26 18.18	4	9007	3737 S29	RO	2732
7 12	C 1 45.7771	1	14 6 32.60	-12 20 41.22	4	9011	3082 S28	LE	2383
7 12	C 1 53.7777	1	14 10 15.127	-12 57 3.57	4	9011	3082 S29	LE	2384
7 12	C 2 1.7066	1	15 26 6.729	-51 8 28.45	4	9007	3737 S31	RO	2360
7 12	C 2 1.7782	1	14 14 0.380	-13 33 20	4	9011	3082 S30	LE	2385
7 12	C 2 9.7782	1	14 17 48.305	-14 9 34.39	4	9011	3082 S31	LE	2386
7 12	C 2 41.7791	1	14 33 23.19	-16 33 0.46	4	9011	3082 S35	LE	2387
7 12	C 2 49.7069	1	15 59 44.410	-52 49 12.15	4	9007	3737 S34	RO	2361
7 12	C 2 49.7792	1	14 37 22.355	-17 8 24.26	4	9011	3082 S36	PG	2568
7 12	C 2 57.7796	1	14 41 24.497	-17 43 30.38	4	9011	3082 S37	LE	2388
7 12	C 3 5.7073	1	16 10 55.401	-53 14 28.87	4	9007	3737 S36	RO	2362
7 12	C 3 5.7796	1	14 45 28.815	-18 18 22.51	4	9011	3082 S38	LE	2389

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1961	7 12	C 3 13.7799	14 49 35.23	-18 52 56.72	9011	3082 S39	GN	2390
	7 12	C 3 21.7075	16 22 2.500	-53 35 45.32	9007	3737 S38	RO	2363
	7 12	C 3 21.7798	14 53 43.519	-19 27 7.87	9011	3082 S40	GN	2391
	7 12	C 3 29.7802	14 57 53.859	-20 0 54	9011	3082 S41	GN	2392
	7 12	C 6 49.7752	16 49 37.323	-30 53 43.14	9011	3082 S55	PG	2570
	7 12	C 6 57.7755	16 54 10.211	-31 10 14.44	9011	3082 S56	GN	2393
	7 12	C 7 5.7114	18 37 35.885	-53 17 55.71	9007	3737 S52	RO	2364
	7 12	C 7 5.7757	16 58 42.194	-31 26 2.16	9011	3082 S57	GN	2394
	7 12	C 7 21.7122	18 45 23.427	-53 1 29.11	9007	3737 S54	RO	2365
	7 21	C 55 13.7135	11 29 31.932	-67 31 25.56	9007	3817 S17	VO	2366
	7 21	C 55 13.7662	12 14 41.757	-40 38 23.40	9011	3110 S 2	RO	2734
	7 21	C 55 21.7143	11 33 39.642	-68 6 35.47	9007	3817 S18	VO	2367
	7 21	C 55 21.7659	12 18 2.380	-41 9 5.18	9011	3110 S 3	RO	2395
	7 21	C 55 29.7157	11 37 58.863	-68 41 29.40	9007	3817 S19	VO	2368
	7 21	C 55 29.7660	12 21 27.448	-41 39 39.70	9011	3110 S 4	PG	2327
	7 21	C 55 37.7164	11 42 31. 7	-69 16 7.70	9007	3817 S20	VO	2369
	7 21	C 55 37.7659	12 24 57.847	-42 10 18.43	9011	3110 S 5	RO	2396
	7 21	C 56 33.7169	12 21 52.160	-73 8 56.61	9007	3817 S23	LE	2664
	7 21	C 56 33.7631	12 52 5.526	-45 42 22	9011	3110 S12	RO	2397
	7 21	C 56 41.7183	12 28 51.198	-73 40 7	9007	3817 S24	VO	2733
	7 21	C 56 41.7632	12 56 22.265	-66 12 1.71	9011	3110 S13	RO	2398
	7 21	C 56 49.7202	12 36 14.843	-74 10 32.24	9007	3817 S25	VO	2371
	7 21	C 56 49.7630	13 9 45.940	-46 41 25.22	9011	3110 S14	RO	2399
	7 21	C 56 57.7213	12 44 5.756	-74 40 10.98	9007	3817 S26	VO	2372
	7 21	C 56 57.7631	13 5 16.164	-47 10 30	9011	3110 S15	RO	2400
	7 21	C 57 5.7238	12 52 24.864	-75 8 52.22	9007	3817 S27	VO	2373
	7 21	C 57 5.7629	13 9 53.392	-47 39 14.35	9011	3110 S16	PG	2328
	7 21	C 58 1.7242	14 6 14.676	-77 54 46.64	9007	3817 S30	LE	2665
	7 21	C 58 1.7629	13 45 44.206	-50 47 22.29	9011	3110 S23	FC	2401
	7 21	C 58 9.7256	14 19 11.961	-78 11 46.91	9007	3817 S31	BN	2374
	7 21	C 58 9.7626	13 51 22.296	-51 11 45.47	9011	3110 S24	FC	2402
	7 21	C 58 17.7269	14 32 42.204	-78 26 41.79	9007	3817 S32	BN	2375
	7 21	C 58 17.7626	13 57 8.585	-51 35 26.45	9011	3110 S25	FC	2403
	7 21	C 58 25.7288	14 46 43.272	-78 39 21.95	9007	3817 S33	BN	2376
	7 21	C 58 25.7624	14 3 3.133	-51 58 15.54	9011	3110 S26	FC	2404
	7 21	C 59 25.7312	16 46 52.479	-78 49 9.33	9007	3817 S35	BN	2377
	7 21	C 59 29.7597	14 54 52.505	-54 24 23.15	9011	3110 S34	PG	2329
	7 21	C 59 37.7320	17 1 13.988	-78 38 49.70	9007	3817 S36	LE	2666
	7 21	C 59 37.7595	15 1 52. 53	-54 37 11.37	9011	3110 S35	FC	2405
	7 21	C 59 45.7326	17 15 7.857	-78 26 6.84	9007	3817 S37	BN	2378
	7 21	1 1 5.7373	19 2 10.293	-74 43 55.70	9007	3817 S42	LE	2667
	7 21	1 1 13.7389	19 9 53.381	-74 15 13.56	9007	3817 S43	BN	2379
	7 21	1 1 21.7397	19 17 10. 12	-73 45 42.29	9007	3817 S44	BN	2380
	7 21	1 1 21.7562	16 37 35. 90	-55 9 1.24	9011	3110 S48	FC	2406
	7 21	1 1 29.7414	19 24 1.898	-73 15 32.12	9007	3817 S45	BN	2381

DATE	TIME (A-1)	RMS	R.A. (1950.0)	DECL. (1950.0)	STATION	FRAME NO.	MS	OBS. NO.
Y M D	H M S	MS	H M S	D M S				
1961	7 21	1	16 44 54.977	-55 0 37.17	9011	3110 S49	FC	2407
	1 1 29.7563	1	16 52 11.300	-54 50 39.88	9011	3110 S50	PG	2339
	1 1 37.7558	1	15 44 51.740	6 57 3	9011	3208 S10	BW	2914
	C 49 13.8311	1	16 42 53.694	-46 45 58.32	9007	3916 S 8	AY	2907
	C 49 21.6638	1	15 48 48.315	6 26 30.24	9011	3208 S11	GN	9135
	C 49 21.8311	1	16 48 15.824	-46 10 29.55	9007	3916 S 9	AY	2908
	C 49 29.6638	1	15 52 43.375	5 55 41.76	9011	3208 S12	BW	2915
	C 49 29.8304	1	16 53 32.307	-45 34 5.20	9007	3916 S10	PI	8440
	C 49 37.6632	1	15 56 37.477	5 24 43.19	9011	3208 S13	BW	2916
	C 49 37.8299	1	16 58 43.363	-44 56 51.71	9007	3916 S11	AY	2909
	C 49 45.6635	1	16 0 30.30	4 53 33.84	9011	3208 S14	BW	2917
	C 49 45.8296	1	17 3 48.739	-44 18 38.33	9007	3916 S12	AY	2910
	C 49 53.6633	1	16 4 21.161	4 22 17.67	9011	3208 S15	BW	2918
	C 49 53.8290	1	17 12 23.611	5 31 18.76	9011	3208 S17	BW	2919
	C 52 25.8218	1	17 15 41.21	6 1 11.80	9011	3208 S18	GN	9136
	C 52 33.8216	1	17 18 55.963	6 31 0.55	9011	3208 S19	BW	2920
	C 52 41.8211	1	18 34 28.596	-28 13 21.40	9007	3916 S14	AY	2911
	C 52 49.6581	1	17 22 9.512	7 3 28.19	9011	3208 S20	BW	2921
	C 52 49.8206	1	17 25 20.855	7 29 47.92	9011	3208 S21	AY	2922
	C 52 57.8200	1	18 40 59.31	-26 41 42.30	9007	3916 S16	AY	2912
	C 53 5.6578	1	17 28 30.906	7 58 47.71	9011	3208 S22	BW	2923
	C 53 5.8194	1	17 31 38.873	8 27 31.41	9011	3208 S23	BW	3110
	C 53 13.8187	1	18 47 15.893	-25 10 38	9007	3916 S18	PI	8166
	C 53 21.6579	1	17 34 45.85	8 55 59.48	9011	3208 S24	GN	9137
	C 53 21.8181	1	17 37 49.696	9 24 14.19	9011	3208 S25	BW	2924
	C 53 29.8169	1	18 53 19.814	-23 42 21	9007	3916 S20	AY	2913
	C 53 37.6580	1	12 45 2.20	-56 26 43.50	9007	3920 S 3	GN	8233
	C 22 25.6665	1	13 6 19.140	-20 37 30.81	9011	3218 S 5	AY	2807
	C 22 25.6827	1	12 51 2.673	-56 33 34.56	9007	3920 S 4	BW	3104
	C 22 33.6662	1	13 10 21.276	-20 24 32.77	9011	3218 S 6	AY	2808
	C 22 33.6824	1	12 57 8.823	-56 39 34.56	9007	3920 S 5	BW	3105
	C 22 41.6657	1	13 14 25.92	-20 11 3.39	9011	3218 S 7	AY	2809
	C 22 41.6822	1	13 3 21.114	-56 44 35.86	9007	3920 S 6	BW	2795
	C 22 49.6656	1	13 18 30.589	-19 56 52.20	9011	3218 S 8	AY	2810
	C 22 49.6820	1	13 9 39.565	-56 48 38.59	9007	3920 S 7	BW	2796
	C 22 57.6656	1	13 22 37.630	-19 42 1.33	9011	3218 S 9	AY	2811
	C 22 57.6816	1	13 16 2.336	-56 51 37.80	9007	3920 S 8	BW	2797
	C 23 5.6657	1	13 26 46.12	-19 26 32.45	9011	3218 S10	GN	9138
	C 23 5.6814	1	15 57 26.453	-51 33 54.41	9007	3920 S10	BW	2798
	C 26 17.6594	1	15 9 21.103	-10 6 27	9011	3218 S18	AY	2812
	C 26 17.6750	1	16 3 38.661	-51 3 27.30	9007	3920 S11	GN	8234
	C 26 25.6597	1	15 13 34.539	9 36 33.57	9011	3218 S19	AY	2813
	C 26 25.6747	1	16 9 45.5	-50 31 46.31	9007	3920 S12	BW	2799
	C 26 33.6593	1	15 17 47.282	9 6 19.98	9011	3218 S20	AY	2814
	C 26 33.6743	1	16 15 45.336	-49 58 50.40	9007	3920 S13	BW	2800
	C 26 41.6592	1						

Satellite 1961 Delta 1

3 August - 5 August 1961

DATE Y M D	TIME (A-1) F M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1961	8 3	1	15 21 58.478	8 35 41	4	9011	3218 S21	GN	9139
	8 3	1	16 21 39.638	-49 24 46.54	4	9007	3920 S14	BW	2801
	8 3	1	15 26 8.708	8 4 52	4	9011	3218 S22	AY	2815
	8 3	1	18 26 18.185	-28 54 35.50	4	9007	3920 S20	BW	2802
	8 3	1	17 10 57.790	6 41 26.80	4	9011	3218 S27	AY	2816
	8 3	1	18 29 32.395	-28 7 30.13	4	9007	3920 S21	BW	2803
	8 3	1	17 14 13.165	7 10 59.80	4	9011	3218 S28	AY	2817
	8 3	1	18 32 43.69	-27 20 36.31	4	9007	3920 S22	GN	8235
	8 3	1	17 17 26.474	7 40 15.35	4	9011	3218 S29	AY	2818
	8 3	1	18 35 49.952	-26 33 54.90	4	9007	3920 S23	BW	2804
	8 3	1	17 20 37.659	8 9 13.50	4	9011	3218 S30	AY	2819
	8 3	1	18 38 53.523	-25 47 22.63	4	9007	3920 S24	BW	3106
	8 3	1	17 23 46.821	8 37 52.53	4	9011	3218 S31	AY	2820
	8 3	1	18 41 53.595	-25 1 6.18	4	9007	3920 S25	BW	2805
	8 3	1	17 26 54.20	9 6 21.14	4	9011	3218 S32	AY	2821
	8 3	1	18 44 50.282	-24 15 7.71	4	9007	3920 S26	BW	2806
	8 3	1	17 29 59.501	9 34 26.10	4	9011	3218 S33	GN	9141
	8 3	1	18 47 43.824	-23 29 25.68	4	9007	3920 S27	BW	3108
	8 3	1	17 33 2.889	10 2 9.14	4	9011	3218 S34	AY	2822
	8 3	1	1 18 58.930	46 7 46.22	4	9001	3569 S 3	GN	7822
	8 3	1	19 37 14.918	47 10 21.16	4	9010	4126 S 5	MJ	8284
	8 3	1	2 8 23.718	44 29 6	4	9001	3569 S13	BW	8292
	8 3	1	19 39 31.232	48 0 4.11	4	9010	4126 S 6	YN	9021
	8 3	1	2 11 53.123	44 18 58.79	4	9001	3569 S14	BW	8293
	8 3	1	2 15 19.337	44 8 33.34	4	9001	3569 S15	GN	7823
	8 3	1	19 41 52.651	48 50 35.66	4	9010	4126 S 7	MJ	8285
	8 3	1	19 44 20.486	49 42 1.22	4	9010	4126 S 8	MJ	8286
	8 3	1	2 25 22.440	43 35 36.13	4	9001	3569 S18	BW	8294
	8 3	1	2 28 37.601	43 24 5.92	4	9001	3569 S19	BW	8295
	8 3	1	19 46 54.830	50 34 20.54	4	9010	4126 S 9	MJ	8287
	8 4	1	18 44 24.324	30 2 59.26	4	9010	4147 S 3	VD	312
	8 4	1	18 48 13.796	31 40 13.22	4	9010	4147 S 6	VD	313
	8 4	1	22 45 57.847	42 27 6.52	4	9001	3581 S23	BW	8289
	8 4	1	18 49 33.72	32 13 35.92	4	9010	4147 S 7	MJ	8288
	8 4	1	22 47 52.812	42 33 39.84	4	9001	3581 S24	BW	8290
	8 4	1	22 49 48.82	42 40 10.71	4	9001	3581 S25	BW	8291
	8 4	1	22 51 43.770	42 46 31.34	4	9001	3581 S27	GN	7824
	8 5	1	23 51 8.147	44 6 28.90	4	9001	3602 S21	VD	7874
	8 5	1	23 54 55.661	44 9 17.51	4	9001	3602 S22	MJ	8021
	8 5	1	18 55 27.65	39 10 24.11	4	9010	4170 S 3	BW	8017
	8 5	1	23 58 42.399	44 11 35.15	4	9001	3602 S23	MJ	8022
	8 5	1	18 57 14.26	39 49 59.56	4	9010	4170 S 4	VD	314
	8 5	1	1 50 59.60	41 50 3.36	4	9001	3602 S37	MJ	8023
	8 5	1	19 34 50.96	51 49 5.40	4	9010	4170 S 9	BW	8018
	8 5	1	1 53 51.901	41 40 50.75	4	9001	3602 S38	MJ	8024

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.-NO.
1961	P 21 45.7357	1	1 56 42.915	41 31 22.43	4	9001	3602 S39	MJ	8025
	P 21 53.6885	1	19 38 2.228	52 39 22.81	4	9010	4170 S10	VD	8751
	P 21 53.7362	1	1 59 31. 7	41 21 46.18	4	9001	3602 S40	MJ	8026
	P 22 1.6896	1	19 41 23.474	53 30 10	4	9010	4170 S11	BM	8019
	P 22 1.7380	1	2 5 2. 87	41 2 4.78	4	9001	3602 S42	MJ	8027
	P 22 5.7394	1	2 7 44.815	40 51 57.79	4	9001	3602 S43	MJ	8028
	P 22 9.6895	1	19 44 54.613	54 21 33.77	4	9010	4170 S12	BM	8020
	P 22 32.6896	1	15 41 21.712	24 58 15.81	4	9011	3240 S 3	PG	8572
	P 29 25.6398	1	15 59 0.143	27 55 57.55	4	9011	3240 S10	MJ	8300
	P 29 37.6699	1	16 22 35.184	7 13 44.49	4	9007	3946 S 2	MJ	8296
	P 29 37.6896	1	16 1 30.875	28 20 53.44	4	9011	3240 S11	MJ	8301
	P 29 45.6697	1	16 25 57.131	7 53 45.91	4	9007	3946 S 3	MJ	8297
	P 29 45.6889	1	16 4 1.718	28 45 36	4	9011	3240 S12	PG	8573
	P 29 53.6637	10	16 29 18.461	8 33 28.68	4	9007	3946 S 4	TM	8167
	P 29 53.6888	1	16 6 32.526	29 10 8.70	4	9011	3240 S13	MJ	8302
	P 30 1.6686	1	16 32 39.699	9 13 10.93	4	9007	3946 S 5	MJ	8298
	P 30 1.6884	1	16 9 2.993	29 34 31.21	4	9011	3240 S14	MJ	8303
	P 30 5.6680	1	16 36 0.409	9 52 44.71	4	9007	3946 S 6	MJ	8299
	P 30 17.6618	10	16 39 20.793	10 32 11.98	4	9007	3946 S 7	TM	8168
	P 30 53.6870	1	17 21 8.682	40 7 30.81	4	9011	3240 S26	PG	8574
	P 34 45.6578	10	18 27 14. 64	29 36 57.14	4	9007	3946 S14	TM	8169
	P 35 21.6567	10	18 39 5.216	31 19 56.34	4	9007	3946 S18	TM	8170
	P 8 31.1707	10	18 35 5.712	-57 51 14.61	5	9007	4448 S 4	HB	9745
	P 8 31.5801	10	19 22 31.541	-34 54 19.45	5	9011	3703 S 4	HB	9722
	P 8 3.1699	10	18 45 23. 53	-59 37 52.67	5	9007	4448 S 8	HB	9746
	P 9 11.5798	10	19 35 15.902	-36 22 41.32	5	9011	3703 S 9	HB	9723
	P 42 20.4211	10	19 13 12.331	-75 29 4.12	5	9007	4456 S 3	MJ	9726
	P 42 29.8805	10	19 12 43.765	-47 33 8.45	5	9011	3718 S 3	HB	9720
	P 42 44.4208	10	19 44 33.931	-76 41 33.18	5	9007	4456 S 6	MJ	9727
	P 42 53.8799	10	19 27 55.179	-49 7 27.31	5	9011	3718 S 6	HB	9721
1962	P 46 41.8549	1	1 14 15.773	-20 23 58.47	4	9011	4261 S 2	PB	8842
	P 46 49.8504	1	0 53 13.291	-50 39 38	4	9007	4911 S10	SD	6499
	P 46 49.8546	1	1 16 15.959	-20 53 8.93	4	9011	4261 S 3	SY	7154
	P 46 57.8546	1	1 18 18. 6	-21 22 34.23	4	9011	4261 S 4	PB	8029
	P 47 5.8544	1	1 20 22.254	-21 52 12	4	9011	4261 S 5	SY	7155
	P 15 5.9179	3	7 35 7.855	29 30 11.10	4	9001	5034 S 5	BM	9831
	P 15 12.9180	3	7 38 37.520	48 42 25.44	4	9001	5034 S 6	FC	5233
	P 15 13.9187	1	2 12 23.812	40 3 53.52	4	9010	5606 S 4	PK	5723
	P 15 21.9180	3	7 41 59.936	27 55 22.19	4	9001	5034 S 7	FC	5234
	P 15 21.9186	1	2 17 51.502	40 9 0	4	9010	5606 S 6	PK	5260
	P 15 25.9184	1	2 20 37.628	40 11 12.86	4	9010	5606 S 7	PK	5261
	P 15 25.9180	3	7 45 16. 35	27 9 11	4	9001	5034 S 8	BM	9832
	P 15 29.9183	1	2 23 25.370	40 13 12.56	4	9010	5606 S 8	BM	1008
	P 15 32.9189	1	2 26 14.368	40 14 54.51	4	9010	5606 S 9	PK	5262
	P 15 37.9179	3	7 48 25.328	26 23 46.97	4	9001	5034 S 9	FC	5235

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1962	2 9	2 15 37.9185	2 29 5.52	40 16 25.61	9010	5606 S10	PK	5263
	2 9	2 15 41.9184	2 31 57.134	40 17 41.17	9010	5606 S11	PK	5264
	2 9	2 15 45.9179	7 51 28.821	25 39 10.35	9001	5034 S1C	FC	5236
	2 9	2 15 45.9184	2 34 50.39C	40 18 38.44	9010	5606 S12	PK	5265
	2 9	2 15 49.9183	2 37 45.144	40 19 22.63	9010	5606 S13	PK	5266
	2 9	2 15 53.9178	7 54 26.907	24 55 17.98	9001	5034 S11	FC	5237
	2 9	2 15 53.9182	2 40 41.354	40 19 51.29	9010	5606 S14	PK	5267
	2 9	2 17 13.9179	8 19 54.269	18 18 49.54	9001	5035 S 2	BN	5238
	2 9	2 17 13.9181	3 43 29.814	39 22 35.77	9010	5607 S10	PL	5273
	2 9	2 17 21.9180	8 22 6.515	17 43 10.22	9001	5035 S 3	AN	5239
	2 9	2 17 21.9182	3 50 5.453	39 9 3.22	9010	5607 S12	PL	5274
	2 9	2 17 25.9180	8 24 15.738	17 8 2.15	9001	5035 S 4	BN	5240
	2 9	2 17 25.9182	3 56 42.901	38 53 54.11	9010	5607 S14	PL	5275
	2 9	2 17 37.9178	8 26 22.136	16 33 34.47	9001	5035 S 5	BN	5241
	2 9	2 17 37.9181	4 3 21.597	38 37 13.54	9010	5607 S16	PL	5276
	2 9	2 17 45.9180	8 28 25.476	15 59 43.23	9001	5035 S 6	PB	9833
	2 9	2 17 45.9183	4 10 1.635	38 18 53.76	9010	5607 S18	PL	5277
	2 9	2 17 53.9180	8 30 26.447	15 26 34.61	9001	5035 S 7	BN	5242
	2 9	2 17 53.9185	4 16 41.611	37 59 3.44	9010	5607 S20	PL	5278
	2 9	2 18 1.9181	8 32 25.177	14 53 55	9001	5035 S 8	BN	5243
	2 9	2 18 1.9183	4 23 21.406	37 37 34.25	9010	5607 S22	BN	5279
	2 9	2 18 9.9180	8 34 20.995	14 21 53.15	9001	5035 S 9	PB	9834
	2 9	2 18 9.9183	4 30 1.191	37 14 28.16	9010	5607 S24	BN	5280
	2 9	2 18 17.9178	8 36 14.918	13 50 22.53	9001	5035 S10	BN	5244
	2 9	2 18 17.9183	4 36 39.519	36 49 50.50	9010	5607 S26	BN	5281
	2 9	2 18 21.9183	4 39 58.166	36 36 53.95	9010	5607 S27	KA	1017
	2 9	2 18 25.9178	8 38 6.405	13 19 27.57	9001	5035 S11	AN	5245
	2 9	2 18 25.9185	4 43 16.542	36 23 35.20	9010	5607 S28	AN	5282
	2 9	2 18 33.9176	8 39 56.81	12 49 2.19	9001	5035 S12	BN	5246
	2 9	2 18 33.9184	4 49 51.321	35 55 48.45	9010	5607 S30	BN	5283
	2 9	2 18 41.9175	8 41 43.421	12 19 9.71	9001	5035 S13	AN	5247
	2 9	2 18 41.9183	4 56 23.946	35 26 31.97	9010	5607 S32	BN	5284
	2 10	1 53 37.9132	3 46 11.70	40 44 8.49	9010	5617 S 2	BN	5285
	2 10	1 53 45.9134	3 53 26.546	40 26 18.99	9010	5617 S 3	BN	5286
	2 10	1 53 45.9215	8 17 47.857	16 14 22.63	9001	5041 S10	AN	5251
	2 10	1 53 53.9131	4 0 42.345	40 6 35.27	9010	5617 S 4	CB	1014
	2 10	1 53 53.9215	8 19 45.380	15 40 43	9001	5041 S11	HC	5252
	2 10	1 54 1.9128	4 7 58.17	39 44 57.42	9010	5617 S 5	AN	5287
	2 10	1 54 5.9127	4 15 13.210	39 21 28.80	9010	5617 S 6	CB	1015
	2 10	1 54 9.9215	8 23 32.186	14 35 15.23	9001	5041 S13	HC	5254
	2 10	1 54 17.9123	4 22 26.390	38 56 9	9010	5617 S 7	AN	5288
	2 10	1 54 17.9212	8 25 22.291	14 3 29.92	9001	5041 S14	HC	5255
	2 10	1 54 25.9118	4 29 37.643	38 29 58.73	9010	5617 S 8	BN	5289
	2 10	1 54 25.9211	8 27 10.22	13 32 18.25	9001	5041 S15	AN	5222
	2 10	1 54 33.9113	4 36 46.962	38 0 C	9010	5617 S 9	AN	5225

DATE Y M D	TIME (A-I) H M S	RMS MS	R-A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1962 2 10	1 54 33.921C	3	8 28 55.924	13 1 41.69	4	9001	5041 S16	BN	5256
2 10	1 54 41.910S	1	4 43 52.56	37 29 18.71	4	9010	5617 S10	BN	5291
2 10	1 54 41.9239	3	8 30 39.795	12 31 32.86	4	9001	5041 S17	BN	5257
2 10	1 54 45.9267	3	8 32 21.788	12 2 C.46	4	9001	5041 S18	YK	9840
2 11	5 30 17.9217	3	3 8 53.404	2 3 12.28	4	9001	5063 S 3	YK	5724
2 11	5 30 17.9248	1	9 11 33.702	23 10 9.83	4	9012	5568 S 2	PL	5296
2 11	5 30 25.9218	3	3 11 38.873	1 42 30.76	4	9001	5063 S 4	VD	5269
2 11	5 30 25.9246	1	9 12 51.896	22 31 24	4	9012	5568 S 3	KA	1640
2 11	5 30 33.9220	3	3 14 25.32	1 21 35.26	4	9001	5063 S 5	OD	9841
2 11	5 30 33.9246	1	9 14 8.797	21 53 14.71	4	9012	5568 S 4	PL	5297
2 11	5 30 41.9222	3	3 17 11.807	1 0 15	4	9001	5063 S 6	VD	5270
2 11	5 30 41.9246	1	9 15 25.80	21 15 46.84	4	9012	5568 S 5	PL	5298
2 11	5 30 49.9222	3	9 19 58.894	0 38 35	4	9001	5063 S 7	VD	5271
2 11	5 30 49.9231	1	9 16 40.462	20 38 42	4	9012	5568 S 6	PL	5726
2 11	5 30 57.9229	3	3 22 46.911	0 16 35	4	9001	5063 S 8	OD	9842
2 11	5 30 57.9243	1	9 17 55.37	20 2 14.98	4	9012	5568 S 7	PL	5300
2 11	5 31 5.9228	3	3 25 35.259	0 5 42.32	4	9001	5063 S 9	VD	5272
2 11	5 31 5.9241	1	9 19 8.333	19 26 28.35	4	9012	5568 S 8	PL	6262
2 11	5 31 13.9238	1	9 20 21.71	18 51 7.15	4	9012	5568 S 9	KA	1641
2 12	3 8 41.9265	1	2 50 3.82	11 1 53.11	4	9010	5641 S15	PK	5292
2 12	3 8 41.9311	3	6 29 5.617	2 14 28.48	4	9001	5071 S 2	FI	2253
2 12	3 8 49.9265	1	2 53 18.167	10 40 45.71	4	9010	5641 S16	PK	5293
2 12	3 8 49.9307	3	6 33 16.742	1 36 45.49	4	9001	5071 S 4	CL	5248
2 12	3 8 57.9262	1	2 56 35.101	10 19 5.71	4	9010	5641 S17	PK	5294
2 12	3 8 57.9306	3	6 37 22.429	0 59 41.21	4	9001	5071 S 6	CL	5249
2 12	3 9 5.9261	1	2 59 53.55	9 56 50.34	4	9010	5641 S18	PK	5295
2 12	3 9 5.9303	3	6 41 23.151	0 23 6	4	9001	5071 S 8	CL	5250
2 13	C 45 5.9302	3	2 44 27.360	62 45 1.18	4	9009	4516 S 1	SJ	5039
2 13	C 45 5.9456	1	6 15 7.993	29 6 59.98	4	9010	5644 S 9	SY	5344
2 13	C 45 13.9306	3	2 53 2.291	62 46 37.95	4	9009	4516 S 2	SY	1034
2 13	C 45 13.9461	1	6 20 39.802	28 6 30.62	4	9010	5644 S10	CB	1066
2 13	C 45 21.9305	3	3 1 44.587	62 46 28.70	4	9009	4516 S 3	SJ	5040
2 13	C 45 21.9466	1	6 26 0.427	27 6 20.36	4	9010	5644 S11	SY	5345
2 13	C 47 29.9386	3	5 21 52.200	58 5 0.77	4	9009	4517 S 1	OD	5025
2 13	C 47 29.9481	1	7 31 54.872	12 35 46.65	4	9010	5645 S 7	HB	5360
2 13	C 47 37.9388	3	5 29 44.483	57 29 41	4	9009	4517 S 2	CB	1049
2 13	C 47 37.9484	1	7 35 5.939	11 48 55.79	4	9010	5645 S 8	SS	1063
2 13	C 47 45.9391	3	7 37 25.842	56 52 33.27	4	9009	4517 S 3	OD	5026
2 13	C 47 45.9487	1	7 38 11.788	11 3 2	4	9010	5645 S 9	HB	5361
2 13	C 47 53.9395	3	5 44 56.468	56 13 35.65	4	9009	4517 S 4	CB	2268
2 13	C 49 29.9399	1	7 0 24.684	46 34 39.70	4	9009	4518 S 2	CB	5027
2 13	C 49 29.9501	1	8 12 29.809	2 25 22	4	9010	5646 S 5	OD	5339
2 13	C 49 37.9402	1	7 5 34.259	45 39 40.65	4	9009	4518 S 3	CB	5028
2 13	C 49 37.9504	1	8 14 45.855	1 51 4.11	4	9010	5646 S 6	OD	5340
2 13	C 49 45.9405	1	7 10 34.425	44 44 3.18	4	9009	4518 S 4	CB	5029

Satellite 1961 Delta 1

13 February - 14 February 1962

DATE Y M D	TIME (A-I) F M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1962	2 13	C 49 45.9505	1 8 16 59.446	1 17 26.11	9010	5646 S 7	OD	5341
2 13	C 49 53.9477	1	7 15 26.46	43 47 54.18	9009	4518 S 5	CB	5030
2 13	C 49 53.9507	1	8 19 10.720	0 44 25.82	9010	5646 S 8	OD	5342
2 13	C 50 1.9407	1	7 20 8.730	42 51 14.93	9009	4518 S 6	BA	2748
2 13	C 50 1.9508	1	8 21 19.429	0 12 7.21	9010	5646 S 9	CB	2269
2 13	C 50 9.9412	1	7 24 43.360	41 54 13.56	9009	4518 S 7	CB	5031
2 13	C 50 9.9511	1	8 23 25.880	0 19 31.19	9010	5646 S 10	OD	5343
2 13	2 45 5.9165	3	6 33 4.458	0 56 59.47	9001	5085 S 10	OD	5023
2 13	2 45 5.9281	1	2 39 56.171	10 47 26.68	9010	5652 S 9	SS	1060
2 13	2 45 13.9164	3	6 37 4.327	0 19 44.30	9001	5085 S 11	OD	5767
2 13	2 45 13.9257	1	2 43 26.746	10 24 23	9010	5652 S 10	SD	5358
2 13	2 45 21.9166	3	6 40 58.664	0 16 48.51	9001	5085 S 12	FI	320
2 13	2 45 21.9255	1	2 46 58.262	10 0 48.69	9010	5652 S 11	SD	5359
2 13	2 47 5.9293	1	3 34 33.238	4 0 51.53	9010	5653 S 2	SS	5346
2 13	2 47 5.9329	3	7 24 43.171	7 12 41.61	9001	5086 S 4	SY	5018
2 13	2 47 13.9293	1	3 38 18.771	3 29 28.40	9010	5653 S 3	SS	5347
2 13	2 47 13.9328	3	7 27 37.390	7 40 28.96	9001	5086 S 5	SY	5019
2 13	2 47 21.9294	1	3 42 5.896	2 57 29.86	9010	5653 S 4	SJ	1004
2 13	2 47 21.9327	3	7 30 28.344	8 7 41.32	9001	5086 S 6	SY	5020
2 13	2 47 25.9292	1	3 45 52.743	2 25 8.83	9010	5653 S 5	SS	5348
2 13	2 47 28.9325	3	7 33 16.0	8 34 24.69	9001	5086 S 7	SY	5021
2 13	2 47 37.9294	1	3 49 40.943	1 52 13.75	9010	5653 S 6	SJ	1005
2 13	2 47 37.9325	3	7 36 0.631	9 0 36.85	9001	5086 S 8	SY	5022
2 13	2 47 45.9294	1	3 53 29.581	1 19 1.20	9010	5653 S 7	SS	5349
2 13	2 47 45.9324	3	7 38 42.205	9 26 20	9001	5086 S 9	FI	322
2 14	C 21 17.9303	1	6 16 34.803	29 19 7.39	9010	5655 S 2	HB	5331
2 14	C 21 17.9330	3	2 35 48.162	65 16 48.45	9009	4526 S 4	KA	947
2 14	C 21 25.9313	1	6 21 57.618	28 14 31.22	9010	5655 S 4	FI	1056
2 14	C 21 25.9337	3	2 45 38.612	65 18 7.97	9009	4526 S 5	HB	5032
2 14	C 21 33.9314	1	6 27 8.94	27 10 31.55	9010	5655 S 6	HB	5332
2 14	C 21 37.9342	3	2 55 36.488	65 17 14.60	9009	4526 S 6	HB	5033
2 14	C 21 41.9317	1	6 32 7.787	26 7 11.15	9010	5655 S 8	HB	5333
2 14	C 21 41.9347	3	3 5 41.596	65 14 5.66	9009	4526 S 7	HB	5034
2 14	C 21 49.9320	1	6 36 56.381	25 4 34.88	9010	5655 S 10	HB	5334
2 14	C 21 49.9350	3	3 15 51.54	65 8 36	9009	4526 S 8	HB	5035
2 14	C 21 57.9324	1	6 41 34.875	24 2 51.26	9010	5655 S 12	HB	5335
2 14	C 21 57.9355	3	3 26 4.112	65 0 41.14	9009	4526 S 9	HB	5036
2 14	C 22 5.9326	1	6 46 3.539	23 1 59	9010	5655 S 14	HB	5336
2 14	C 22 5.9359	3	3 36 17.679	64 50 15	9009	4526 S 10	HB	5037
2 14	C 22 13.9329	1	6 50 23.85	22 2 4.34	9010	5655 S 16	HB	5337
2 14	C 22 13.9361	3	3 46 30.82	64 37 20.97	9009	4526 S 11	HB	5768
2 14	C 22 17.9330	1	6 52 29.460	21 32 29.29	9010	5655 S 17	FI	1057
2 14	C 22 21.9331	1	6 54 33.843	21 3 7.55	9010	5655 S 18	HB	5338
2 14	C 22 21.9358	3	3 56 40.313	64 21 50.66	9009	4526 S 12	KA	948
2 14	C 24 45.9393	3	6 28 8.142	53 11 12.59	9009	4527 S 3	SS	5041

Satellite 1961 Delta 1

February 14 - February 19, 1962

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950-C) H M S	DECL. (1950-C) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1962	2 14	2 24 45.9431	7 51 36.343	6 24 37	4	9010	5656 S 5	SS	5350-
	2 14	2 24 53.9399	6 34 19.766	52 17 21.84	4	9009	4527 S 4	SS	945
	2 14	2 24 53.9430	7 54 3.395	5 45 14.85	4	9010	5656 S 7	SS	5351
	2 14	2 25 1.9407	6 40 18.855	51 22 22.43	4	9009	4527 S 5	SS	5769
	2 14	2 25 1.9432	7 56 27. 42	5 6 46.78	4	9010	5656 S 9	SS	5352
	2 14	2 25 9.9411	6 46 5.247	50 26 24.13	4	9009	4527 S 6	SS	5043
	2 14	2 25 9.9433	7 58 47.804	4 29 7.10	4	9010	5656 S11	SS	5353
	2 14	2 25 17.9416	6 51 39.931	49 29 33	4	9009	4527 S 7	SS	5044
	2 14	2 25 17.9434	8 1 5.428	3 52 20.30	4	9010	5656 S13	SS	5354
	2 14	2 25 25.9421	6 57 3.281	48 31 55.77	4	9009	4527 S 8	SS	5045
	2 14	2 25 25.9434	8 3 20.326	3 16 13.73	4	9010	5656 S15	SS	5355
	2 14	2 25 33.9423	7 2 15. 41	47 33 36.65	4	9009	4527 S 9	SS	5046
	2 14	2 25 33.9435	8 5 32.656	2 41 4.38	4	9010	5656 S17	HB	5356
	2 14	2 25 37.9436	8 6 37.736	2 23 42.34	4	9010	5656 S18	HB	2519
	2 14	2 25 41.9428	7 7 16.547	46 34 45.40	4	9009	4527 S10	SS	5047
	2 14	2 25 41.9435	8 7 42.279	2 6 34	4	9010	5656 S19	HB	5357
	2 14	2 25 45.9429	7 12 7.872	45 35 20.26	4	9009	4527 S11	SS	946
	2 17	1 20 9.9423	5 23 10.766	3 14 46.16	4	9009	4550 S 3	SY	922
	2 17	1 20 9.9501	7 14 6.368	-31 42 58.35	4	9010	5677 S 3	SS	5770
	2 17	1 20 17.9421	5 27 35.111	4 7 22.94	4	9009	4550 S 4	CB	5048
	2 17	1 20 17.9501	7 17 5.266	-32 1 18.34	4	9010	5677 S 4	SS	5771
	2 17	1 20 25.9422	5 31 58.633	4 59 48.63	4	9009	4550 S 5	CB	5049
	2 17	1 20 25.9502	7 20 1.882	-32 19 16.67	4	9010	5677 S 5	SS	5053
	2 17	1 20 33.9422	5 36 21. 31	5 52 0.53	4	9009	4550 S 6	SY	923
	2 17	1 20 33.9501	7 22 56.185	-32 36 42	4	9010	5677 S 6	SS	5054
	2 17	1 20 41.9425	5 40 42.554	6 43 54.57	4	9009	4550 S 7	CB	5050
	2 17	1 20 41.9505	7 25 48.651	-32 53 53.23	4	9010	5677 S 7	SS	5055
	2 19	2 27 13.8639	2 3 24.358	28 0 11.27	4	9009	4563 S 2	SY	1032
	2 19	2 27 21.8885	2 8 9.419	27 33 15.20	4	9009	4563 S 3	CB	8739
	2 19	2 27 21.9393	4 39 47.140	-14 7 6.16	4	9010	5683 S 2	MJ	8750
	2 19	2 27 29.9005	2 12 56.848	27 5 14.54	4	9009	4563 S 4	CB	8740
	2 19	2 27 29.9388	4 44 55. 10	-14 50 4.19	4	9010	5683 S 3	MJ	8751
	2 19	2 27 37.9329	2 17 47.565	26 35 52.15	4	9009	4563 S 5	CB	8741
	2 19	2 27 37.9386	4 49 58.784	-15 32 6.96	4	9010	5683 S 4	SJ	998
	2 19	2 27 45.9385	2 22 40.344	26 5 17.11	4	9009	4563 S 6	SY	1033
	2 19	2 27 45.9389	4 54 58. 93	-16 13 14.89	4	9010	5683 S 5	SJ	999
	2 19	2 27 53.9385	2 27 35.278	25 33 24.30	4	9009	4563 S 7	CB	8742
	2 19	2 27 53.9386	4 59 52.617	-16 53 22.71	4	9010	5683 S 6	MJ	8752
	2 19	2 28 1.9387	2 32 32.718	25 0 13.40	4	9009	4563 S 8	CB	8874
	2 19	2 28 1.9389	5 4 43.325	-17 32 39.76	4	9010	5683 S 7	MJ	8753
	2 19	2 31 21.9462	6 43 42.434	-29 22 36.47	4	9010	5684 S 2	SJ	996
	2 19	2 31 21.9464	4 42 58.115	4 30 59.11	4	9009	4564 S 9	MJ	8744
	2 19	2 31 29.9463	6 46 54. 32	-29 42 20.69	4	9010	5684 S 3	CB	8747
	2 19	2 31 29.9468	4 48 7.814	3 31 17	4	9009	4564 S10	MJ	8745
	2 19	2 31 37.9464	6 50 3.409	-30 1 38.93	4	9010	5684 S 4	CB	8748

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1962	2 19	3 1	37.9478	10	3	9009	4564 S11	BW	3916
	2 19	3 1	45.9463	1	4	9010	5684 S 5	CB	8749
	2 19	3 1	45.9480	3	4	9009	4564 S12	MJ	8746
	2 19	3 1	53.9466	1	4	9010	5684 S 6	SJ	997
	2 24	3 1	13.9425	3	4	9009	4603 S 6	MJ	8993
	2 24	3 1	21.9563	1	4	9011	5009 S 2	MJ	8997
	2 24	3 1	29.9421	3	4	9009	4603 S 8	MJ	8994
	2 24	3 1	29.9561	1	4	9011	5009 S 3	MJ	8998
	2 24	3 1	37.9559	1	4	9011	5009 S 4	MJ	8999
	2 24	3 1	45.9423	3	4	9009	4603 S10	MJ	8995
	2 24	3 1	45.9556	1	4	9011	5009 S 5	MJ	9000
	2 24	3 1	53.9554	1	4	9011	5009 S 6	MJ	9001
	3 1	3 1	1.9425	3	4	9009	4603 S12	MJ	8996
	3 1	3 1	57.9367	3	4	9007	5255 S 7	MJ	8761
	3 1	3 1	57.9910	1	4	9011	5068 S 2	KA	3316
	3 1	3 1	45.9383	3	4	9007	5257 S 3	BW	3565
	3 1	3 1	53.9380	3	4	9007	5257 S 4	MJ	8762
	3 1	3 1	54.0083	1	4	9011	5069 S 2	HY	3613
	3 1	3 1	1.938C	3	4	9007	5257 S 5	MJ	8763
	3 1	3 1	2.0083	1	4	9011	5069 S 3	MJ	8756
	3 1	3 1	9.9378	3	4	9007	5257 S 6	MJ	8764
	3 1	3 1	10.0084	1	4	9011	5069 S 4	HY	3614
	3 1	3 1	17.9375	3	4	9007	5257 S 7	MJ	8765
	3 1	3 1	18.0083	1	4	9011	5069 S 5	MJ	8757
	3 1	3 1	25.9365	3	4	9007	5257 S 8	BW	5461
	3 1	3 1	13.9319	3	4	9007	5258 S 3	SD	3566
	3 1	3 1	21.9317	3	4	9007	5258 S 4	MJ	8758
	3 1	3 1	22.0030	1	4	9011	5070 S 2	HB	3572
	3 1	3 1	29.9315	3	4	9007	5258 S 5	MJ	8759
	3 1	3 1	30.0034	1	4	9011	5070 S 3	MJ	8754
	3 1	3 1	37.9312	3	4	9007	5258 S 6	MJ	8760
	3 1	3 1	38.0030	1	4	9011	5070 S 4	HB	3573
	3 1	3 1	45.9308	3	4	9007	5258 S 7	SD	3567
	3 1	3 1	46.0031	1	4	9011	5070 S 5	MJ	8755

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1962 5 30	C 3 30.0384	3	9 35 22. 17	37 2 4.18	9007	6000 S 5	CB	8262
5 30	C 3 30.0747	1	9 18 41.654	0 46 53.47	9009	5210 S 3	CB	8629
5 30	C 3 38.0382	3	9 35 2.352	36 30 48	9007	6000 S 6	CB	8263
5 30	C 3 38.0744	1	9 18 24.987	1 28 33.35	9009	5210 S 4	CB	8630
5 30	C 3 46.0379	3	9 34 42.791	35 59 17.59	9007	6000 S 7	CB	8264
5 30	C 3 46.0745	1	9 18 8.376	2 9 55.60	9009	5210 S 5	CB	8631
5 30	C 3 54.0377	3	9 34 23. 76	35 27 34.39	9007	6000 S 8	CB	8265
5 30	C 3 54.0749	1	2 51 8.35	4 4 8.35	9009	5210 S 6	CB	8632
5 30	C 4 2.0376	3	9 34 2.890	34 55 47.96	9007	6000 S 9	CB	8266
5 30	C 4 2.0747	1	9 17 33.767	3 32 13.45	9009	5210 S 7	CB	8633
5 30	C 7 6.0328	3	9 25 20.325	21 47 37.71	9007	6001 S12	CB	8256
5 30	C 7 6.0780	1	9 9 39.670	-18 10 53.40	9009	5211 S 3	CB	8623
5 30	C 7 14.0327	3	9 24 54.765	21 11 4.95	9007	6001 S13	CB	8257
5 30	C 7 14.0780	1	9 9 15.690	-18 46 3.72	9009	5211 S 4	CB	8624
5 30	C 7 22.0324	3	9 24 28.817	20 34 17.16	9007	6001 S14	CB	8258
5 30	C 7 22.0780	1	9 8 51.411	-19 21 1.13	9009	5211 S 5	CB	8625
5 30	C 7 31.0321	3	9 24 2.946	19 57 23.36	9007	6001 S15	CB	8259
5 30	C 7 31.0780	1	9 8 26.721	-19 55 46.61	9009	5211 S 6	CB	8626
5 30	C 7 38.0321	3	9 23 36.488	19 20 16.68	9007	6001 S16	CB	8260
5 30	C 7 38.0779	1	9 8 1.645	-20 30 2.27	9009	5211 S 7	CB	8627
5 30	C 7 46.0319	3	9 23 9.785	18 42 55.96	9007	6001 S17	CB	8261
5 30	C 7 46.0781	1	9 7 36.467	-21 4 14.68	9009	5211 S 8	CB	8873
5 30	C 10 26.0308	3	9 13 14. 4	5 46 30.13	9007	6002 S10	CB	8251
5 30	C 10 26.0762	1	8 58 1.671	-31 34 9.72	9009	5212 S 3	AA	8618
5 30	C 10 34.0307	3	9 12 40.737	5 6 30	9007	6002 S11	CB	8252
5 30	C 10 34.0764	1	8 57 29.137	-32 3 2.90	9009	5212 S 4	AA	8619
5 30	C 10 42.0305	3	9 12 7.205	4 26 22.86	9007	6002 S12	CB	8253
5 30	C 10 42.0763	1	8 56 56.386	-32 31 47.54	9009	5212 S 5	AA	8620
5 30	C 10 50.0303	3	9 11 33.190	3 46 12	9007	6002 S13	CB	8895
5 30	C 10 50.0763	1	8 56 23. 74	-33 0 14.60	9009	5212 S 6	AA	8872
5 30	C 10 58.0301	3	9 10 58.882	3 5 55.78	9007	6002 S14	CB	8254
5 30	C 10 58.0764	1	8 55 49.279	-33 28 25.31	9009	5212 S 7	AA	8621
5 30	C 11 6.0300	3	9 10 24. 79	2 25 37.75	9007	6002 S15	CB	8255
5 30	C 11 6.0760	1	8 55 15.118	-33 56 28.20	9009	5212 S 8	AA	8622
5 31	C 58 2.0348	3	8 43 14.990	29 11 52.48	9007	6025 S 4	MJ	8279
5 31	C 58 2.0710	1	8 33 12.690	2 15 13.50	9009	5219 S 5	MJ	8614
5 31	C 58 18.0341	3	8 42 58.108	28 14 47.81	9007	6025 S 6	MJ	8280
5 31	C 58 18.0705	1	8 32 59.455	3 18 34.58	9009	5219 S 7	MJ	8615
5 31	C 58 26.0337	3	8 42 49. 72	27 46 4.37	9007	6025 S 7	MJ	8281
5 31	C 58 26.0704	1	8 32 52.171	3 50 4.46	9009	5219 S 8	MJ	8616
5 31	C 58 58.0328	3	8 42 10.634	25 50 23.95	9007	6025 S11	MJ	8282
5 31	C 58 58.0701	1	8 32 20.709	5 54 22.78	9009	5219 S12	MJ	8617
5 31	23 13 14.0354	3	10 24 57.340	3 20 16.82	9007	6035 S 3	MJ	8274
5 31	23 13 22.0351	3	10 24 21.708	2 33 42.49	9007	6035 S 4	MJ	8275
5 31	23 13 27.0611	3	10 0 19.406	20 53 12.27	9011	5723 S 3	MJ	8610

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1962	5 31	23 13 30.0349	10 23 45.486	1 47 1.42	4	9007	6035 S 5	MJ	8276
	5 31	23 13 30.0608	9 59 49.541	20 21 9.15	4	9011	5723 S 4	MJ	8611
	5 31	23 13 38.0348	10 23 9.85	1 0 7.70	4	9007	6035 S 6	MJ	8277
	5 31	23 13 38.0607	9 59 19.559	19 48 57.82	4	9011	5723 S 5	MJ	8612
	5 31	23 13 46.0345	10 22 32.606	0 13 4.37	4	9007	6035 S 7	MJ	8278
	5 31	23 13 46.0607	9 58 49.236	19 16 30.71	4	9011	5723 S 6	MJ	8613
	5 31	23 16 50.0229	10 7 0.138	-18 12 7.75	4	9007	6036 S 5	MJ	8270
	5 31	23 16 50.0577	9 45 49.972	5 49 10.74	4	9011	5724 S 2	MJ	8606
	5 31	23 16 58.0226	10 6 14.625	-19 0 1.79	4	9007	6036 S 6	MJ	8271
	5 31	23 16 58.0576	9 45 12. 19	5 11 28.25	4	9011	5724 S 3	MJ	8607
	5 31	23 17 6.0223	10 5 28.589	-19 47 53.95	4	9007	6036 S 7	MJ	8272
	5 31	23 17 6.0574	9 44 33.480	4 33 33.73	4	9011	5724 S 4	MJ	8608
	5 31	23 17 22.0219	10 3 54.992	-21 23 10.18	4	9007	6036 S 9	MJ	8273
	5 31	23 17 22.0573	9 43 15.439	3 17 9.25	4	9011	5724 S 6	MJ	8609
	5 31	23 20 42.0253	9 40 31.586	-40 4 51	4	9007	6038 S 3	MJ	8267
	5 31	23 20 42.0512	9 24 4.654	-13 32 5.56	4	9011	5725 S 5	MJ	8603
	5 31	23 20 50.0250	9 39 24. 30	-40 46 3.34	4	9007	6038 S 4	MJ	8268
	5 31	23 20 50.0510	9 23 10.571	-14 13 50.27	4	9011	5725 S 6	MJ	8604
	5 31	23 21 6.0250	9 37 4.769	-42 7 33.97	4	9007	6038 S 6	MJ	8269
	5 31	23 21 6.0508	9 21 19.834	-15 37 28.59	4	9011	5725 S 8	MJ	8605
	6 2	6 1 38.0341	9 26 34.600	29 13 57.90	4	9007	6056 S 3	VD	2465
	6 2	6 1 38.0697	9 11 5.226	9 34 56.57	4	9009	5221 S 2	VD	2749
	6 2	6 1 46.0342	9 26 13.815	28 40 21.98	4	9007	6056 S 4	VD	2466
	6 2	6 1 46.0698	9 10 46.549	-10 12 39.28	4	9009	5221 S 3	VD	2471
	6 2	6 1 54.0340	9 25 52.440	28 6 30.82	4	9007	6056 S 5	VD	2467
	6 2	6 1 54.0698	9 10 27.336	-10 50 4.13	4	9009	5221 S 4	VD	2472
	6 2	6 2 2.0337	9 25 30.909	27 32 33.81	4	9007	6056 S 6	VD	2468
	6 2	6 2 2.0697	9 10 7.783	-11 27 31.30	4	9009	5221 S 5	VD	2473
	6 2	6 2 10.0336	9 25 9. 93	26 58 16.64	4	9007	6056 S 7	VD	2469
	6 2	6 2 10.0699	9 9 48.190	-12 4 36.72	4	9009	5221 S 6	VD	2474
	6 2	6 7 30.0296	9 6 45.226	2 4 47.53	4	9007	6058 S 7	VD	2457
	6 2	6 7 30.0710	8 52 17.551	-33 26 56.67	4	9009	5223 S 2	VD	2460
	6 2	6 7 38.0293	9 6 10.758	1 25 21	4	9007	6058 S 8	PL	494
	6 2	6 7 38.0714	8 51 44. 43	-33 54 11.27	4	9009	5223 S 3	VD	2461
	6 2	6 7 46.0718	8 51 9.875	-34 21 14.57	4	9009	5223 S 4	VD	2462
	6 2	6 7 54.0290	9 5 5.699	0 6 23.82	4	9007	6058 S10	VD	2458
	6 2	6 7 54.0715	8 50 35.857	-34 48 2.36	4	9009	5223 S 5	VD	2463
	6 2	6 8 2.0287	9 4 25. 35	0 33 6.40	4	9007	6058 S11	VD	2459
	6 2	6 8 2.0715	8 50 0.511	-35 14 35.76	4	9009	5223 S 6	VD	2748
	6 3	23 17 22.0225	9 29 45.836	-41 5 47.93	4	9007	6100 S 2	MW	513
	6 3	23 17 22.0503	9 18 0.139	-14 56 14.38	4	9011	5771 S 3	RO	2475
	6 3	23 17 30.0327	9 28 33.317	-41 45 22.63	4	9007	6100 S 3	RO	2478
	6 3	23 17 30.0501	9 17 3.894	-15 37 14.25	4	9011	5771 S 4	RO	2476
	6 3	23 17 38.0224	9 27 19.726	-42 24 42.52	4	9007	6100 S 4	RO	2479
	6 3	23 17 38.0497	9 16 6.685	-16 18 12.14	4	9011	5771 S 5	RO	2477

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1962 6 3	23 17 46.0226	3	9 26 4.840	-43 3 40.90	9007	6100 S 5	MM	514
6 3	23 17 46.0498	3	9 15 9.77	-16 59 7.34	9011	5771 S 6	PK	526
6 3	23 22 18.0215	3	8 26 13.277	-61 30 56.31	9007	6101 S 6	MM	515
6 3	23 22 18.0483	3	8 31 59.258	-39 18 48.96	9011	5773 S 4	RO	2484
6 3	23 22 26.0216	3	8 23 45.224	-61 56 50.26	9007	6101 S 7	RO	2750
6 3	23 22 26.0484	3	8 30 19.587	-39 54 54.13	9011	5773 S 5	RO	2753
6 3	23 22 34.0217	3	8 21 14.252	-62 22 21.61	9007	6101 S 8	RO	2751
6 3	23 22 34.0482	3	8 28 38.108	-40 30 42.82	9011	5773 S 6	RO	2754
6 3	23 22 42.0218	3	8 18 39.627	-62 47 28.27	9007	6101 S 9	RO	2482
6 3	23 22 42.0480	3	8 26 54.940	-41 6 16.40	9011	5773 S 7	RO	2755
6 3	23 22 50.0218	3	8 16 2.187	-63 12 12.72	9007	6101 S10	MM	516
6 3	23 22 50.0481	3	8 25 9.846	-41 41 32.63	9011	5773 S 8	RO	2488
6 3	23 22 58.0220	3	8 13 20.878	-63 36 29.56	9007	6101 S11	RO	2752
6 3	23 22 58.0480	3	8 23 23.480	-42 16 31.97	9011	5773 S 9	RO	2489
6 28	8 5 30.0741	3	1 5 26.642	-14 41 27.63	9011	6041 S 6	SS	4034
6 28	8 5 30.0814	3	1 54 36.827	-31 9 39.89	9007	6370 S 4	SS	4036
6 28	8 5 38.0739	3	1 4 34.950	-14 5 50.57	9011	6041 S 7	BN	1060
6 28	8 5 38.0814	3	1 53 37.605	-30 40 51	9007	6370 S 5	SS	4037
6 28	8 5 46.0738	3	1 3 43.880	-13 30 12.47	9011	6041 S 8	SS	4035
6 28	8 5 46.0813	3	1 52 39.440	-30 11 47.94	9007	6370 S 6	BN	1061
6 28	8 14 50.0692	3	0 23 20.90	23 23 17	9011	6044 S 2	LT	1160
6 28	8 14 58.0691	3	0 22 55.143	23 51 11.27	9011	6044 S 3	LT	1161
6 28	8 14 58.0926	3	1 6 36.379	7 42 17.24	9007	6373 S 3	SS	4040
6 28	8 15 6.0691	3	0 22 30.53	24 18 53.42	9011	6044 S 4	SS	4038
6 28	8 15 6.0922	3	1 6 10.433	8 16 20.58	9007	6373 S 4	SS	4041
6 28	8 15 22.0688	3	0 21 41.303	25 13 58.40	9011	6044 S 6	SS	4039
6 28	8 15 22.0922	3	1 5 19.143	9 24 27.30	9007	6373 S 6	PL	1328
6 28	8 15 30.0915	3	1 4 54.249	9 58 22.63	9007	6373 S 7	PL	1329
7 2	9 18 50.0957	1	22 42 29.497	37 39 17.24	9009	5399 S 2	PB	4012
7 2	9 18 51.0842	1	1 16 48.633	3 27 0.94	9001	6897 S 3	SS	4015
7 2	9 18 58.0957	1	22 41 39.479	38 20 16.35	9009	5399 S 3	PB	4013
7 2	9 18 59.0842	1	1 16 58.680	3 55 18.22	9001	6897 S 5	SS	4016
7 2	9 19 6.0955	1	22 40 49.237	39 1 0.47	9009	5399 S 4	PB	4014
7 2	9 19 7.0834	1	1 17 9.276	4 23 45.97	9001	6897 S 7	SS	4017
7 5	8 58 50.0802	1	23 23 7.21	13 48 31.28	9011	6063 S 5	SS	4042
7 5	8 58 50.1077	1	23 47 17.989	-44 35 58	9009	5427 S 4	SS	4046
7 5	8 58 58.0801	1	23 22 41.677	14 21 50.75	9011	6063 S 6	SS	4043
7 5	8 58 58.1076	1	23 46 41.365	-44 7 59	9009	5427 S 5	SS	4047
7 5	8 59 6.0800	1	23 22 16.330	14 54 50.60	9011	6063 S 7	SS	4044
7 5	8 59 6.1076	1	23 46 4.903	-43 39 52.97	9009	5427 S 6	SS	4048
7 5	8 59 14.0801	1	23 21 51.510	15 27 39.48	9011	6063 S 8	SS	4045
7 5	8 59 14.1076	1	23 45 28.760	-43 11 25.22	9009	5427 S 7	SS	4049
7 5	9 2 2.0766	1	23 13 20.605	26 3 20.88	9011	6064 S 4	VD	993
7 5	9 2 10.0769	1	23 12 56.565	26 31 21	9011	6064 S 5	SS	4022
7 5	9 2 10.1034	1	23 33 2.814	-31 45 46.30	9009	5428 S 4	SS	4018

DATE Y M D	TIME (A-1) H M S			RMS MS	R.A.-(1950.0) H M S			DECL.-(1950.0) RMS D M S			STATION	FRAME NO.	MS	OBS.NO.
1962	7	5	5	2 18.0768	1	23 12 32.920		26 58 58	4		9011	6064 S 6	SS	4023
	7	5	5	2 18.1035	1	23 32 30.520		-31 11 41.87	4		9009	5428 S 5	SS	4019
	7	5	5	2 26.0769	1	23 12 9.31		27 26 29.14	4		9011	6064 S 7	SS	4024
	7	5	5	2 26.1036	1	23 31 58.597		-30 37 19	4		9009	5428 S 6	SS	4020
	7	5	5	2 34.0767	1	23 11 45.273		27 53 44.73	4		9011	6064 S 8	SS	4025
	7	5	5	2 34.1033	1	23 31 26.663		-30 2 42.32	4		9009	5428 S 7	SS	4021
	7	5	5	8 10.0685	1	0 8 23.48		-20 25 12.32	4		9010	6867 S 2	MJ	3998
	7	5	5	8 10.1108	1	23 9 21.503		1 55 51.22	4		9009	5430 S 2	MJ	4001
	7	5	5	8 18.0685	1	0 8 2.618		-19 54 13.84	4		9010	6867 S 3	MJ	3999
	7	5	5	8 18.1109	1	23 8 48.572		1 11 4.84	4		9009	5430 S 3	MJ	4002
	7	5	5	8 26.0687	1	0 7 42.380		-19 22 56.43	4		9010	6867 S 4	MJ	4000
	7	5	5	8 26.1116	1	23 8 15.517		0 26 6	4		9009	5430 S 4	MJ	4003
	7	5	5	16 18.0749	1	23 48 40.486		19 4 2.96	4		9010	6869 S 4	SS	4026
	7	5	5	16 18.1137	1	22 26 23.472		42 43 12.52	4		9009	5432 S 5	SS	4030
	7	5	5	16 26.0751	1	23 48 20.152		19 49 58.46	4		9010	6869 S 5	SS	4027
	7	5	5	16 26.1136	1	22 25 23.826		43 21 23.79	4		9009	5432 S 6	SS	4031
	7	5	5	16 34.0754	1	23 47 59.659		20 35 52.78	4		9010	6869 S 6	SS	4028
	7	5	5	16 34.1138	1	22 24 22.979		43 59 17.31	4		9009	5432 S 7	SS	4032
	7	5	5	16 42.0755	1	23 47 39.97		21 21 56.44	4		9010	6869 S 7	SS	4029
	7	5	5	16 42.1138	1	22 23 21.355		44 36 58.27	4		9009	5432 S 8	SS	4033
	7	5	5	19 38.0794	1	23 39 20.453		38 26 38.13	4		9010	6870 S 3	AA	4008
	7	5	5	19 38.1128	1	21 55 24.680		57 8 5.65	4		9009	5433 S 3	MJ	4004
	7	5	5	19 46.0791	1	23 38 54.753		39 12 51.39	4		9010	6870 S 4	AA	4009
	7	5	5	19 46.1128	1	21 53 50.87		57 38 40.18	4		9009	5433 S 4	MJ	4005
	7	5	5	19 54.0794	1	23 38 28.944		39 58 50.57	4		9010	6870 S 5	AA	4010
	7	5	5	19 54.1129	1	21 52 13.198		58 8 58	4		9009	5433 S 5	MJ	4006
	7	5	5	20 2.0796	1	23 38 2.578		40 45 1.81	4		9010	6870 S 6	AA	4011
	7	5	5	20 2.1128	1	21 50 34.208		58 38 54.50	4		9009	5433 S 6	MJ	4007
	7	7	7	22 51.0854	1	1 3 12.837		38 11 42.60	4		9010	6903 S 2	BA	1001
	7	7	7	22 59.0851	1	1 3 37.315		38 52 52.14	4		9010	6903 S 3	DM	7126
	7	7	7	23 6.0890	1	1 46 55.526		20 57 57.80	4		9001	6981 S 4	HC	7146
	7	7	7	23 7.0855	1	1 4 2.988		39 34 1.57	4		9010	6903 S 4	BA	1002
	7	7	7	23 10.1038	1	0 6 13.447		63 8 1.07	4		9009	5459 S 3	BA	999
	7	7	7	23 15.0854	1	1 4 29.8		40 15 2	4		9010	6903 S 5	DM	7127
	7	7	7	23 18.1037	1	0 5 59.828		63 40 32.22	4		9009	5459 S 4	BN	7365
	7	7	7	23 23.0855	1	1 4 56.344		40 56 3.27	4		9010	6903 S 6	BA	1003
	7	7	7	23 26.1040	1	0 5 46.386		64 12 51.80	4		9009	5459 S 5	BA	1000
	7	5	5	2 42.0763	1	23 11 21.528		28 20 47.54	4		9011	6064 S 9	VD	994
	7	5	5	2 50.0763	1	23 10 57.790		28 47 43.18	4		9011	6064 S10	VD	995
	7	7	7	23 30.0839	1	1 48 33.286		22 20 32.95	4		9001	6981 S 7	HC	7147
	7	7	7	23 34.1037	1	0 5 32.746		64 45 1	4		9009	5459 S 6	BN	7366
	7	7	7	23 42.1038	1	0 5 19.518		65 16 53.18	4		9009	5459 S 7	BN	7367
	7	8	8	59 54.0866	3	23 37 37.149		17 33 49.53	4		9007	6464 S 2	DM	6614
	7	8	8	59 54.0976	1	23 21 1.751		-25 54 1	4		9009	5471 S 3	MY	7455
	7	8	9	0 2.0859	3	23 37 6.872		18 12 24.93	4		9007	6464 S 3	DM	7281

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1962	7 8	5 0 2.0982	23 20 30.701	-25 17 0.76	9009	5471 S 4	MY	6587
	7 8	5 0 1.00858	23 36 36.615	18 50 45.96	9007	6464 S 4	DM	6615
	7 8	5 0 1.00982	23 19 59.760	-24 39 43.52	9009	5471 S 5	MY	6588
	7 8	5 3 14.0850	23 25 7.840	32 23 54.76	9007	6465 S 2	LD	6599
	7 8	5 3 14.0977	23 7 57.516	9 12 57.48	9009	5472 S 4	PL	6595
	7 8	5 3 22.0854	23 24 37.912	32 56 18.76	9007	6465 S 3	LD	6600
	7 8	5 3 22.0977	23 7 25.298	8 29 53.53	9009	5472 S 5	PL	6596
	7 8	5 3 30.0976	23 6 53.122	7 46 38.66	9009	5472 S 6	PL	7456
	7 8	5 3 38.0851	23 23 37.470	34 0 20.85	9007	6465 S 5	LD	6601
	7 8	5 3 38.0974	23 6 20.575	7 3 13.42	9009	5472 S 7	PL	6597
	7 8	5 3 46.0850	23 23 7.50	34 32 1.51	9007	6465 S 6	LD	6602
	7 8	5 3 46.0976	23 5 48.17	6 19 35.45	9009	5472 S 8	PL	6598
	7 9	7 11 30.1594	1 26 25.339	6 19 28.78	9009	5483 S 5	BN	7369
	7 9	7 11 38.1595	1 26 14.1	5 47 13.67	9009	5483 S 6	BN	9786
	7 9	7 11 46.0889	1 28 24.226	26 5 3.13	9007	6471 S 2	DM	7144
	7 9	7 11 46.1593	1 26 3.60	5 14 49.25	9009	5483 S 7	BN	7749
	7 10	8 1 54.0786	0 6 12.862	29 33 18.72	9011	6093 S15	LT	6603
	7 10	8 1 54.0944	0 41 21.967	-25 2 42.29	9009	5495 S 2	HC	6589
	7 10	8 2 2.0785	0 5 48.769	29 59 58	9011	6093 S16	LT	6604
	7 10	8 2 2.0944	0 40 53.407	-24 29 27.12	9009	5495 S 3	HC	6590
1963	7 10	8 2 1.00785	0 5 24.207	30 26 24.79	9011	6093 S17	LT	6605
	7 10	8 2 10.0945	0 40 24.787	-23 55 59.60	9009	5495 S 4	HC	6591
	7 10	8 2 18.0785	0 5 0.471	30 52 48.88	9011	6093 S18	LT	6606
	7 10	8 2 18.0941	0 39 56.495	-23 22 15.23	9009	5495 S 5	HC	6592
	7 10	8 2 26.0785	0 4 36.494	31 18 56.77	9011	6093 S19	LT	6607
	7 10	8 2 26.0943	0 39 28.449	-22 48 16.71	9009	5495 S 6	HC	6593
	7 10	8 2 34.0787	0 4 12.583	31 44 56.36	9011	6093 S20	LT	6608
	7 10	8 2 34.0943	0 39 0.736	-22 14 1.71	9009	5495 S 7	HC	6594
	7 14	8 58 34.0953	23 2 10.379	41 54 7	9007	6514 S 3	MM	6616
	7 14	8 58 34.1000	22 43 46.329	4 52 21.24	9009	5549 S 4	BA	6609
	7 14	8 58 42.0955	23 1 36.166	42 21 49.11	9007	6514 S 4	MM	6617
	7 14	8 58 42.1001	22 43 9.447	5 37 12	9009	5549 S 5	BA	6610
	7 14	8 58 50.0950	23 1 1.444	42 49 13.79	9007	6514 S 5	MM	6618
	7 14	8 58 50.1000	22 42 32.176	6 22 5	9009	5549 S 6	BA	6611
	7 14	8 58 58.0951	23 0 26.925	43 16 27.47	9007	6514 S 6	MM	6619
	7 14	8 58 58.1004	22 41 54.548	7 6 56.83	9009	5549 S 7	BA	6612
	7 14	8 59 6.0949	22 59 51.580	43 43 26	9007	6514 S 7	MM	6620
	7 14	8 59 6.1002	22 41 16.791	7 51 48.64	9009	5549 S 8	BA	6613
	6 11	5 10 58.4712	14 59 31.177	40 34 45.10	9010	9355 S 8	LT	3500
	6 11	5 11 6.4672	18 3 19.846	28 56 14.96	9001	10514 S 4	LT	3503
1963	6 11	5 11 6.4714	14 59 36.097	39 48 15.11	9010	9555 S 9	LT	3501
	6 11	5 11 14.4673	18 2 2.832	28 15 21.75	9001	10514 S 6	LT	3504
	6 11	5 11 14.4715	14 59 40.463	39 1 40.95	9010	9555 S10	LT	3502
	6 11	5 11 22.4672	18 0 47.411	27 34 23.93	9001	10514 S 8	LT	3505
	6 11	5 16 2.4789	14 58 36.979	11 17 45.86	9010	9557 S 2	LT	3925

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.-NO.
1963 6 11	5 16 10.4783	1	14 58 30.512	10 33 56.83	4	9010	9557 S 3	MY	48
6 11	5 16 18.4781	1	14 58 23.542	9 50 22.19	4	9010	9557 S 4	LT	3507
6 11	5 18 18.4667	1	17 14 51.423	- 7 24 38.06	4	9001	10516 S 8	LT	3510
6 13	1 32 2.4869	1	14 19 47.511	- 0 24 8.35	4	9004	8509 S 2	LT	3514
6 13	1 32 2.4881	1	18 58 13.072	26 6 21.59	4	9009	7846 S 5	YK	9934
6 13	1 32 10.4869	1	14 19 55.225	- 0 53 3.26	4	9004	8509 S 3	LT	3515
6 13	1 32 10.4885	1	18 57 23.074	25 37 28.14	4	9009	7846 S 6	YK	9935
6 13	1 32 18.4869	1	14 20 2.543	- 1 21 43.18	4	9004	8509 S 4	LT	3516
6 13	1 32 18.4886	1	18 56 33.479	25 8 24.75	4	9009	7846 S 7	DM	3726
6 13	1 32 26.4867	1	14 20 9.410	- 1 50 17.23	4	9004	8509 S 5	LT	3517
6 13	1 32 26.4889	1	18 55 44.730	24 39 13.86	4	9009	7846 S 8	DM	3727
6 13	1 32 34.4867	1	14 20 16.193	- 2 18 45.46	4	9004	8509 S 6	LT	3518
6 13	1 32 34.4886	1	18 54 56.580	24 9 50.51	4	9009	7846 S 9	DM	3728
6 13	1 32 42.4865	1	14 20 22.487	- 2 46 46.06	4	9004	8509 S 7	LT	4904
6 13	1 32 42.4889	1	18 54 8.431	23 40 17.31	4	9009	7846 S 10	DM	3729
6 14	2 20 26.4751	1	19 16 13.265	55 7 37.04	4	9009	7864 S 4	HC	9941
6 14	2 20 26.4853	1	13 51 18.480	18 18 52.24	4	9004	8522 S 3	BN	3231
6 14	2 20 34.4854	1	13 51 48.913	17 50 45.06	4	9004	8522 S 4	BN	3232
6 14	2 20 42.4853	1	13 52 18.720	17 22 41.96	4	9004	8522 S 5	BN	3233
6 14	2 20 50.4754	1	19 10 24.897	53 57 9.63	4	9009	7864 S 7	DM	3723
6 14	2 20 50.4854	1	13 52 48.112	16 54 44.24	4	9004	8522 S 6	BN	3234
6 14	2 20 58.4757	1	19 8 32.248	53 33 1.40	4	9004	7864 S 8	DM	3724
6 14	2 20 58.4853	1	13 53 16.732	16 26 53.14	4	9004	8522 S 7	BN	3235
6 14	2 21 6.4760	1	19 6 41.034	53 8 32.68	4	9009	7864 S 9	DM	3725
6 14	2 21 6.4854	1	13 53 44.818	15 59 5.55	4	9004	8522 S 8	BN	3923
6 14	2 21 14.4759	1	19 4 51.628	52 43 48.58	4	9009	7864 S 10	HC	9942
6 14	5 3 30.4659	1	14 41 39.318	60 33 12.83	4	9010	9588 S 6	YK	3719
6 14	5 3 30.4821	1	18 49 10.399	48 29 37.26	4	9001	10539 S 10	VD	9577
6 14	5 3 38.4660	1	14 42 21.309	59 52 46.68	4	9010	9588 S 7	YK	3720
6 14	5 3 38.4821	1	18 46 59.177	47 55 38.40	4	9001	10539 S 12	BN	3237
6 14	5 3 46.4660	1	14 43 1.211	59 12 7.83	4	9010	9588 S 8	YK	3721
6 14	5 3 46.4821	1	18 44 50.755	47 21 11.21	4	9001	10539 S 14	BN	3238
6 14	5 3 54.4659	1	14 43 39.305	58 31 12.59	4	9010	9588 S 9	LD	53
6 14	5 3 54.4820	1	18 42 44.412	46 46 25.42	4	9001	10539 S 16	BN	3239
6 14	5 4 2.4656	1	14 44 15.464	57 50 1.30	4	9010	9588 S 10	LD	54
6 14	5 4 2.4711	1	13 1 30.398	60 30 48.60	4	9009	7868 S 7	BN	3243
6 14	5 4 2.4821	1	18 40 40.581	46 11 17.29	4	9001	10539 S 18	BN	3240
6 14	5 4 10.4703	1	13 3 7.636	60 4 26.20	4	9009	7868 S 8	BN	3244
6 14	5 4 10.4821	1	18 38 39.297	45 35 46.78	4	9001	10539 S 20	BN	3241
6 14	5 4 22.4821	1	18 35 41.507	44 41 48.59	4	9001	10539 S 23	VD	9578
6 14	5 4 42.4708	1	13 9 9.736	58 16 46.90	4	9009	7868 S 12	VD	9945
6 14	5 4 42.4821	1	18 30 56.293	43 10 15.13	4	9001	10539 S 28	BN	3242
6 14	5 6 10.4833	1	18 12 26.733	36 5 7.13	4	9001	10540 S 3	VD	9579
6 14	5 6 42.4734	1	14 51 57.196	43 19 34.36	4	9010	9589 S 4	LD	3715
6 14	5 6 42.4838	1	18 6 34.714	33 23 3.36	4	9001	10540 S 11	LT	3511

Satellite 1961 Alpha Delta 1

14 June - 25 June 1963

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1963 6 14	5 6 50.4734	1	14 52 10.474	42 34 9.86	9010	9589 S 5	LD	3716
6 14	5 6 50.4840	1	18 5 10.708	32 42 5.60	9001	10540 S13	LT	3512
6 14	5 6 58.4733	1	14 52 23.265	41 48 42.19	9010	9589 S 6	LD	3717
6 14	5 6 58.4838	1	18 3 47.911	32 0 56.05	9001	10540 S15	VD	9580
6 14	5 7 6.4731	1	14 52 35.381	41 3 4.92	9010	9589 S 7	LD	3718
6 14	5 7 6.4841	1	18 2 26.381	31 19 30.63	9001	10540 S17	LT	3513
6 14	5 7 14.4732	1	14 52 46.527	40 17 23.79	9010	9589 S 8	PK	55
6 14	5 7 22.4732	1	14 52 57.568	39 31 34.68	9010	9589 S 9	PK	56
6 14	5 10 34.4763	1	14 54 50.403	21 6 8.88	9010	9590 S 5	PL	3711
6 14	5 10 34.4822	1	17 33 49.869	12 56 11.77	9001	10541 S 3	PK	9581
6 14	5 10 42.4765	1	14 54 50.099	20 20 48.76	9010	9590 S 6	PL	57
6 14	5 10 42.4771	1	17 32 55.966	12 13 50.19	9001	10541 S 5	YK	3245
6 14	5 10 50.4764	1	14 54 49.715	19 35 38.06	9010	9590 S 7	PL	1074
6 14	5 10 50.4822	1	17 32 3.257	11 31 36.94	9001	10541 S 7	YK	3246
6 14	5 10 58.4766	1	14 54 48.763	18 50 33.56	9010	9590 S 8	PL	3712
6 14	5 10 58.4822	1	17 31 10.889	10 49 26.84	9001	10541 S 9	YK	3247
6 14	5 11 6.4767	1	14 54 47.714	18 5 42.25	9010	9590 S 9	PL	3713
6 14	5 11 6.4823	1	17 30 19.383	10 7 27.55	9001	10541 S11	YK	3248
6 14	5 11 14.4769	1	14 54 46.222	17 20 54.32	9010	9590 S10	PL	3714
6 14	5 11 14.4823	1	17 29 28.655	9 25 32.44	9001	10541 S13	YK	3249
6 14	5 11 30.4823	1	17 27 49.039	8 2 3.56	9001	10541 S17	PK	9582
6 25	3 58 46.4945	1	14 17 25.828	54 57 25.40	9009	8034 S11	BN	3693
6 25	3 58 46.4961	1	18 42 4.329	25 25 16.43	9001	10729 S 3	PK	3742
6 25	3 58 50.4946	1	14 17 45.028	54 40 22.63	9009	8034 S12	LD	9995
6 25	3 58 50.4962	1	18 42 7.190	25 7 21.36	9001	10729 S 4	PK	3743
6 25	3 58 54.4945	1	14 18 3.627	54 23 13.93	9009	8034 S13	BN	3694
6 25	3 58 54.4961	1	18 41 30.564	24 49 22.46	9001	10729 S 5	GL	9624
6 25	3 58 58.4938	1	14 18 21.917	54 6 6.72	9009	8034 S14	BN	5483
6 25	3 58 58.4962	1	18 40 54.228	24 31 23.82	9001	10729 S 6	PK	3744
6 25	3 59 2.4945	1	14 18 39.941	53 48 48.15	9009	8034 S15	BN	3696
6 25	3 59 2.4961	1	18 40 17.939	24 13 22.03	9001	10729 S 7	GL	9625
6 25	3 59 6.4938	1	14 18 57.754	53 31 33.14	9009	8034 S16	BN	3697
6 25	3 59 6.4961	1	18 39 41.866	23 55 14.93	9001	10729 S 8	PK	3745
6 25	3 59 10.4947	1	14 19 15.105	53 14 9.79	9009	8034 S17	BN	3698
6 25	3 59 10.4961	1	18 39 6.157	23 37 14.42	9001	10729 S 9	PK	3746
6 25	3 59 22.4949	1	14 20 5.422	52 21 48.21	9009	8034 S20	BN	3699
6 25	3 59 22.4960	1	18 37 20.302	22 42 49.60	9001	10729 S12	PK	3747
6 25	3 59 26.4949	1	14 20 21.408	52 4 12.88	9009	8034 S21	LD	997
6 25	3 59 26.4960	1	18 36 45.609	22 24 40.03	9001	10729 S13	PK	3748
6 25	3 59 30.4944	1	14 20 37.458	51 46 38.17	9009	8034 S22	BN	3700
6 25	3 59 30.4959	1	18 36 11.042	22 6 29.29	9001	10729 S14	PK	3749
6 25	4 2 6.4914	1	18 16 30.539	10 8 21.53	9001	10730 S 3	HC	9626
6 25	4 2 6.4972	1	14 27 46.768	39 40 29.42	9009	8035 S 5	MY	3730
6 25	4 2 10.4914	1	18 16 4.104	9 50 0.36	9001	10730 S 4	BN	3581
6 25	4 2 10.4973	1	14 27 53.715	39 20 58.60	9009	8035 S 6	MY	3731

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 6 25	4 2 14.4914	1	18 15 37.737	9 31 34.29	9001	10730 S 5	BN	3582
6 25	4 2 14.4974	1	14 28 0.481	39 1 22.47	9009	8035 S 7	MY	3732
6 25	4 2 18.4915	1	18 15 11.583	9 13 8.36	9001	10730 S 6	BN	3583
6 25	4 2 16.4972	1	14 28 7.210	38 41 51.72	9009	8035 S 8	MY	3733
6 25	4 2 22.4915	1	18 14 45.603	8 54 45.47	9001	10730 S 7	BN	3584
6 25	4 2 22.4978	1	14 28 13.865	38 22 11.87	9009	8035 S 9	MY	3734
6 25	4 2 26.4914	1	18 14 19.810	8 36 23.23	9001	10730 S 8	BN	3924
6 25	4 2 26.4977	1	14 28 20.078	38 2 34.68	9009	8035 S10	MY	3735
6 25	4 2 30.4915	1	18 13 54.190	8 18 2.00	9001	10730 S 9	BN	3585
6 25	4 2 30.4972	1	14 28 26.268	37 42 50.23	9009	8035 S11	LD	9997
6 25	4 2 34.4914	1	18 13 28.678	7 59 40.77	9001	10730 S10	BN	3586
6 25	4 2 34.4981	1	14 28 32.443	37 23 8.47	9009	8035 S12	MY	3736
6 25	4 2 42.4915	1	18 12 38.128	7 23 1.19	9001	10730 S12	BN	3587
6 25	4 2 42.4979	1	14 28 44.023	36 43 35.16	9009	8035 S14	LD	9998
6 25	4 2 46.4915	1	18 12 13.040	7 4 44.90	9001	10730 S13	BN	3588
6 25	4 2 46.4974	1	14 28 49.515	36 23 44.58	9009	8035 S15	MY	3737
6 25	4 2 50.4915	1	18 11 48.328	6 46 25.03	9001	10730 S14	BN	3589
6 25	4 2 50.4972	1	14 28 54.929	36 3 53.88	9009	8035 S16	PL	5495
6 25	4 2 54.4914	1	18 11 23.503	6 28 7.97	9001	10730 S15	BN	3590
6 25	4 2 54.4982	1	14 29 6.037	35 43 57.04	9009	8035 S17	PL	3739
6 25	4 2 58.4916	1	18 10 58.929	6 9 54.06	9001	10730 S16	HC	9627
6 25	4 2 58.4981	1	14 29 5.248	35 24 4.58	9009	8035 S18	PL	5496
6 25	4 3 2.4914	1	18 10 34.489	5 51 39.12	9001	10730 S17	BN	3591
6 25	4 3 2.4973	1	14 29 10.235	35 4 6.12	9009	8035 S19	PL	3740
6 25	4 3 6.4914	1	18 10 10.121	5 33 26.11	9001	10730 S18	BN	3592
6 25	4 3 6.4983	1	14 29 15.088	34 43 58.87	9009	8035 S20	PL	3741
6 25	4 5 54.4951	1	17 55 10.875	- 6 48 41.80	9001	10731 S 4	BN	3701
6 25	4 5 54.4999	1	14 30 44.162	20 26 34.86	9009	8036 S10	DM	3571
6 25	4 5 58.4950	1	17 54 52.113	- 7 5 42.75	9001	10731 S 5	HC	9628
6 25	4 5 58.4996	1	14 30 44.040	20 5 57.99	9009	8036 S11	DM	3572
6 25	4 6 2.4951	1	17 54 33.403	- 7 22 36.66	9001	10731 S 6	BN	3702
6 25	4 6 2.5005	1	14 30 43.563	19 45 19.74	9009	8036 S12	DM	3573
6 25	4 6 6.4950	1	17 54 14.668	- 7 39 31.78	9001	10731 S 7	BN	3703
6 25	4 6 6.5005	1	14 30 43.003	19 24 47.37	9009	8036 S13	DM	3574
6 25	4 6 10.4950	1	17 53 56.160	- 7 56 24.22	9001	10731 S 8	BN	3704
6 25	4 6 10.5002	1	14 30 42.482	19 4 8.61	9009	8036 S14	DM	3575
6 25	4 6 14.4949	1	17 53 37.661	- 8 13 14.94	9001	10731 S 9	BN	3705
6 25	4 6 14.5002	1	14 30 41.905	18 43 33.81	9009	8036 S15	DM	3576
6 25	4 6 18.4949	1	17 53 19.218	- 8 30 3.43	9001	10731 S10	BN	3706
6 25	4 6 18.4998	1	14 30 41.006	18 22 56.52	9009	8036 S16	DM	3577
6 25	4 6 22.4949	1	17 53 1.065	- 8 46 48.00	9001	10731 S11	BN	5485
6 25	4 6 22.5006	1	14 30 40.291	18 2 24.25	9009	8036 S17	DM	3578
6 25	4 6 26.4950	1	17 52 42.918	- 9 3 27.37	9001	10731 S12	BN	3708
6-25	4 6 26.5005	1	14 30 39.212	17 41 46.93	9009	8036 S18	DM	3579
6 25	4 6 30.4948	1	17 52 24.884	- 9 20 10.91	9001	~~10731~~ S13	HC	9629

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS.NO.
1963 6 25	4 6 30.5003	1	14 30 38.295	17 21 14.01	9009	8036 S19	DM	3580
6 25	4 49 38.4912	1	18 52 58.806	16 17 37.22	9012	9956 S 9 BN	HC	3709
6 25	4 49 38.4951	1	14 48 50.862	3 13 53.70	9001	10737 S 9 HC	HC	9630
6 25	4 49 46.4911	1	18 52 10.667	15 38 13.64	9012	9956 S10 LT	LT	18
6 25	4 49 46.4932	1	14 48 52.791	2 37 52.38	9001	10737 S11 SU	SU	4903
6 25	4 49 54.4909	1	18 51 22.791	15 5 41.26	9012	9956 S11 BN	BN	3710
6 25	4 49 54.4932	1	14 48 54.389	2 2 6.21	9001	10737 S13 HC	HC	9631
6 25	17 47 42.7037	1	18 35 56.030	38 6 4.42	9008	12518 S 4 MY	MY	1567
6 26	4 51 6.5013	1	13 17 39.943	50 1 37.12	9009	8053 S13 MY	MY	4902
6 26	4 51 14.5058	1	13 18 44.275	49 33 56.48	9009	8053 S14 MY	MY	4901
6 26	4 51 14.5091	1	17 53 6.099	40 33 7.07	9001	10757 S13 MY	MY	3569
6 26	4 51 18.4997	1	17 52 20.900	40 11 11.48	9001	10757 S14 BA	BA	9633
6 26	4 51 22.4998	1	17 51 36.440	39 49 15.32	9001	10757 S15 MY	MY	3570
6 26	4 51 27.5060	1	13 19 47.915	49 6 3.48	9009	8053 S15 MY	MY	4902
6 26	4 57 46.4998	1	17 4 2.858	3 37 57.60	9001	10759 S11 LT	LT	9636
6 26	4 57 46.5067	1	13 49 15.582	24 39 15.82	9009	8055 S 9 PL	PL	5
6 26	4 57 54.4997	1	17 3 22.538	2 55 26.56	9001	10759 S13 BN	BN	4898
6 26	4 57 54.5070	1	13 49 33.368	24 7 14.25	9009	8055 S10 BN	BN	3565
6 26	4 58 2.4996	1	17 2 42.325	2 13 1.66	9001	10759 S15 BN	BN	3563
6 26	4 58 2.5068	1	13 49 50.722	23 35 15.60	9009	8055 S11 PL	PL	6
6 26	4 58 6.4997	1	17 2 22.515	1 52 3.82	9001	10759 S16 LT	LT	9637
6 26	4 59 10.4996	1	17 2 2.782	1 31 4.03	9001	10759 S17 BN	BN	3564
6 26	4 58 10.5072	1	13 50 7.702	23 3 14.29	9009	8055 S12 BN	BN	4899
6 26	5 0 50.5080	1	13 53 56.761	12 26 56.72	9009	8056 S 8 PL	PL	7
6 26	5 1 30.4074	1	16 47 33.932	-14 34 7.08	9001	10760 S11 BA	BA	3750
6 26	5 1 30.5088	1	13 54 25.696	9 50 31.22	9009	8056 S13 PL	PL	8
6 26	5 1 34.4974	1	16 47 18.516	-14 51 37.05	9001	10760 S12 YK	YK	9638
6 26	5 1 38.4974	1	16 47 3.134	-15 9 9.96	9001	10760 S13 BA	BA	3751
6 26	5 1 38.5087	1	13 54 30.162	9 19 26.40	9009	8056 S14 YK	YK	3754
6 26	5 1 46.4973	1	16 46 32.379	-15 43 54.81	9001	10760 S15 YK	YK	3752
6 26	5 1 46.5088	1	13 54 34.397	8 48 23.46	9009	8056 S15 YK	YK	3755
6 26	5 1 54.4972	1	16 46 1.946	-16 18 21.01	9001	10760 S17 YK	YK	3753
6 26	5 1 54.5087	1	13 54 38.069	8 17 26.59	9009	8056 S16 YK	YK	3756
6 28	2 57 2.4989	1	18 24 19.362	17 1 45.41	9001	10808 S 3 YK	YK	3556
6 28	2 57 2.4999	1	14 20 2.216	45 21 38.56	9009	8083 S 6 YK	YK	3548
6 28	2 57 14.4988	1	18 22 47.835	16 5 3.32	9001	10808 S 6 YK	YK	3557
6 28	2 57 14.4994	1	14 20 39.201	44 26 32.23	9009	8083 S 9 YK	YK	3549
6 28	2 57 18.4993	1	18 22 17.728	15 46 7.23	9001	10808 S 7 LT	LT	9889
6 28	2 57 18.5002	1	14 20 50.932	44 8 2.97	9009	8083 S10 YK	YK	3550
6 28	2 57 22.4989	1	18 21 47.954	15 27 11.04	9001	10808 S 8 LT	LT	9890
6 28	2 57 38.4989	1	18 19 50.212	14 11 28.08	9001	10808 S12 YK	YK	3558
6 28	2 57 38.4999	1	14 21 46.890	42 35 7.62	9009	8083 S15 YK	YK	3551
6 28	2 57 42.4990	1	18 19 21.449	13 52 30.81	9001	10808 S13 YK	YK	3559
6 28	2 57 42.4995	1	14 21 57.658	42 16 25.99	9009	8083 S16 YK	YK	3552
6 28	2 57 54.4990	1	18 17 55.936	12 55 43.94	9001	10808 S16 YK	YK	3560

Satellite 1961 Alpha Delta 1																	28 June - 26 July 1963																
DATE			TIME (A-L)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS.NO.																
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S																				
1963	6	28	3	57	54.5032	1	14	22	27.899	41	19	55.81	4	9009	8083 S19	YK	3553																
	6	28	3	57	58.4989	1	18	17	27.647	12	36	48.55	4	9001	10808 S17	YK	3561																
	6	28	3	57	58.4998	1	14	22	37.689	41	1	8.87	4	9009	8083 S20	YK	3554																
	6	28	3	58	2.4989	1	18	16	59.919	12	17	55.96	4	9001	10808 S18	YK	3562																
6	28	3	58	2.5001	1	14	22	47.362	40	42	14.65	4	9009	8083 S21	YK	3555																	
7	1	3	52	2.5021	1	18	32	55.418	23	53	37.55	4	9001	10889 S 5	LT	1013																	
7	1	3	52	2.5035	1	14	10	39.493	50	14	4.92	4	9009	8118 S 7	BN	1022																	
7	1	3	52	6.5022	1	18	32	19.958	23	34	31.72	4	9001	10889 S 6	LT	1014																	
7	1	3	52	6.5039	1	14	10	58.590	49	57	0.53	4	9009	8118 S 8	BN	1023																	
7	1	3	52	10.5022	1	18	31	44.430	23	15	22.79	4	9001	10889 S 7	LT	1015																	
7	1	3	52	10.5040	1	14	11	17.345	49	39	49.68	4	9009	8118 S 9	BN	1024																	
7	1	3	52	14.5023	1	18	31	9.317	22	56	14.46	4	9001	10889 S 8	LT	1016																	
7	1	3	52	14.5038	1	14	11	36.126	49	22	35.48	4	9009	8118 S10	BN	1025																	
7	1	3	52	18.5023	1	18	30	34.499	22	37	2.93	4	9001	10889 S 9	LT	1017																	
7	1	3	52	18.5039	1	14	11	54.400	49	5	13.85	4	9009	8118 S11	BN	1026																	
7	1	3	52	26.5023	1	18	29	25.528	21	58	37.58	4	9001	10889 S11	LT	1018																	
7	1	3	52	26.5037	1	14	12	29.750	48	30	33.76	4	9009	8118 S13	BN	1027																	
7	1	3	52	34.5023	1	18	28	17.584	21	20	7.36	4	9001	10889 S13	LT	1019																	
7	1	3	52	34.5037	1	14	13	4.343	47	55	41.65	4	9009	8118 S15	BN	1028																	
7	1	3	52	38.5022	1	18	27	43.749	21	0	49.89	4	9001	10889 S14	LT	1020																	
7	1	3	52	38.5025	1	14	13	21.303	47	38	10.79	4	9009	8118 S16	BN	1029																	
7	1	3	52	46.5023	1	18	26	37.131	20	22	17.71	4	9001	10889 S16	DM	1021																	
7	1	3	52	46.5036	1	14	13	54.186	47	3	3.22	4	9009	8118 S18	BN	1030																	
7	1	3	56	38.5007	1	18	0	9.412	1	49	4.55	4	9001	10890 S 3	VD	700																	
7	1	3	56	38.5070	1	14	23	31.939	28	58	55.00	4	9009	8120 S 6	YK	1352																	
7	1	3	56	42.5008	1	17	59	46.819	1	30	25.97	4	9001	10890 S 4	VD	701																	
7	1	3	56	42.5064	1	14	23	36.931	28	39	30.86	4	9009	8120 S 7	YK	820																	
7	1	3	56	46.5007	1	17	59	24.404	1	11	50.33	4	9001	10890 S 5	VD	702																	
7	1	3	56	46.5070	1	14	23	41.702	28	19	57.14	4	9009	8120 S 8	YK	1353																	
7	1	3	56	54.5007	1	17	58	40.124	0	34	44.98	4	9001	10890 S 7	VD	703																	
7	1	3	56	54.5063	1	14	23	50.847	27	40	59.76	4	9009	8120 S10	YK	822																	
7	1	3	57	10.5008	1	17	57	12.798	-0	39	4.28	4	9001	10890 S11	VD	704																	
7	1	3	57	10.5069	1	14	24	7.796	26	22	52.86	4	9009	8120 S14	YK	823																	
7	26	1	46	50.5297	1	15	59	50.213	16	10	29.42	4	9007	9503 S 2	LD	690																	
7	26	1	46	50.5337	1	15	41	34.269	-26	49	9.52	4	9009	8538 S 6	LT	694																	
7	26	1	46	58.5296	1	15	59	18.252	15	29	46.66	4	9007	9503 S 3	LD	1455																	
7	26	1	46	58.5335	1	15	41	2.454	-27	24	6.80	4	9009	8538 S 8	LT	695																	
7	26	1	47	6.5294	1	15	58	46.097	14	48	52.75	4	9007	9503 S 4	PK	691																	
7	26	1	47	6.5336	1	15	40	30.244	-27	58	43.02	4	9009	8538 S10	LT	696																	
7	26	1	47	14.5295	1	15	58	13.846	14	7	44.64	4	9007	9503 S 5	PK	692																	
7	26	1	47	14.5337	1	15	39	57.777	-28	32	59.86	4	9009	8538 S12	LT	697																	
7	26	1	47	22.5295	1	15	57	41.323	13	26	25.58	4	9007	9503 S 6	PK	693																	
7	26	1	47	22.5337	1	15	39	25.175	-29	6	59.99	4	9009	8538 S14	LT	698																	
7	26	1	47	30.5293	1	15	57	8.754	12	44	51.37	4	9007	9503 S 7	PG	1351																	
7	26	1	47	30.5337	1	15	38	52.182	-29	40	43.87	4	9009	8538 S16	LT	699																	

Satellite 1961 Alpha Delta 1

28 July - 29 July 1963

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 28	C 52 58.5393	1	16 51 15.562	-44 28 36.70	4	9009	8563 S 9 PL 682
	7 28	C 52 58.5395	1	17 8 44.668	-5 3 23.37	4	9007	9541 S 5 PL 1348
	7 28	C 53 6.5393	1	17 8 15.780	-5 50 22.73	4	9007	9541 S 6 PL 1349
	7 28	C 53 6.5394	1	16 50 42.537	-44 58 13.27	4	9009	8563 S11 PL 683
	7 28	C 53 14.5393	1	17 7 46.820	-6 37 25.52	4	9007	9541 S 7 PL 676
	7 28	C 53 14.5394	1	16 50 8.209	-45 27 35.05	4	9009	8563 S13 PL 684
	7 28	C 53 22.5391	1	17 7 18.025	-7 24 42.88	4	9007	9541 S 8 PL 677
	7 28	C 53 22.5393	1	16 49 34.028	-45 56 44.64	4	9009	8563 S15 PL 685
	7 28	C 53 30.5388	1	16 48 59.843	-46 25 41.51	4	9009	8563 S17 LD 686
	7 28	C 53 30.5390	1	17 6 48.959	-8 12 5.36	4	9007	9541 S 9 PL 678
	7 28	C 53 38.5386	1	17 6 19.838	-8 59 35.77	4	9007	9541 S10 PL 679
	7 28	C 53 38.5389	1	16 48 25.751	-46 54 21.91	4	9009	8563 S19 LD 687
	7 28	C 53 46.5387	1	17 5 50.542	-9 47 8.38	4	9007	9541 S11 LD 680
	7 28	C 53 46.5393	1	16 47 50.542	-47 22 47.44	4	9009	8563 S21 LD 688
	7 28	C 53 54.5385	1	17 5 21.470	-10 34 48.11	4	9007	9541 S12 LD 681
	7 28	C 53 54.5392	1	16 47 16.116	-47 51 3.29	4	9009	8563 S23 LD 689
	7 29	23 54 2.5399	1	18 23 47.782	1 25 56.38	4	9007	9581 S 4 PG 663
	7 29	23 54 2.5475	1	18 15 46.869	-36 12 29.35	4	9009	8588 S 6 MY 669
	7 29	23 54 10.5400	1	18 23 35.112	0 47 4.59	4	9007	9581 S 5 PG 664
	7 29	23 54 10.5479	1	18 15 31.162	-36 44 5.47	4	9009	8588 S 7 MY 670
	7 29	23 54 18.5402	1	18 23 22.211	0 8 7.90	4	9007	9581 S 6 PG 665
	7 29	23 54 18.5479	1	18 15 15.824	-37 15 29.41	4	9009	8588 S 8 MY 671
	7 29	23 54 26.5400	1	18 23 9.924	-0 31 4.83	4	9007	9581 S 7 PG 666
	7 29	23 54 26.5479	1	18 15 0.543	-37 46 40.77	4	9009	8588 S 9 MY 672
	7 29	23 54 34.5401	1	18 22 57.668	-1 10 26.96	4	9007	9581 S 8 PG 667
	7 29	23 54 34.5480	1	18 14 45.447	-38 17 42.42	4	9009	8588 S10 MY 673
	7 29	23 54 42.5400	1	18 22 45.973	-1 49 58.61	4	9007	9581 S 9 PG 668
	7 29	23 54 42.5480	1	18 14 30.902	-38 48 33.98	4	9009	8588 S11 MY 674
	7 29	23 57 30.5387	1	18 19 37.797	-16 13 7.42	4	9007	9582 S 3 YK 638
	7 29	23 57 30.5493	1	18 10 14.903	-48 54 57.23	4	9009	8589 S 6 MY 647
	7 29	23 57 38.5383	1	17 28 58.601	4 37 41.95	4	9011	10074 S 2 DM 656
	7 29	23 57 38.5388	1	18 19 31.909	-16 55 17.44	4	9007	9582 S 4 YK 639
	7 29	23 57 38.5493	1	18 10 5.363	-49 21 55.09	4	9009	8589 S 7 MY 648
	7 29	23 57 46.5380	1	17 28 41.411	4 0 5.39	4	9011	10074 S 3 DM 657
	7 29	23 57 46.5386	1	18 19 26.241	-17 37 25.98	4	9007	9582 S 5 YK 640
	7 29	23 57 46.5493	1	18 9 55.731	-49 48 47.67	4	9009	8589 S 8 MY 649
	7 29	23 57 54.5387	1	18 19 21.002	-18 19 50.55	4	9007	9582 S 6 YK 641
	7 29	23 57 54.5496	1	18 9 46.681	-50 15 22.79	4	9009	8589 S 9 MY 650
	7 29	23 58 2.5377	1	17 28 7.383	2 44 3.17	4	9011	10074 S 5 DM 658
	7 29	23 58 2.5385	1	18 19 16.055	-19 2 11.54	4	9007	9582 S 7 YK 642
	7 29	23 58 2.5494	1	18 9 37.993	-50 41 54.72	4	9009	8589 S10 MY 651
	7 29	23 58 10.5375	1	17 27 50.519	2 5 39.67	4	9011	10074 S 6 DM 659
	7 29	23 58 10.5385	1	18 19 11.305	-19 44 34.01	4	9007	9582 S 8 YK 643
	7 29	23 58 10.5492	1	18 9 29.531	-51 8 16.38	4	9009	8589 S11 MY 1454
	7 29	23 58 18.5374	1	17 27 33.503	1 26 55.52	4	9011	10074 S 7 DM 660

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1963 7 29	22 58 18.5385	1	18 19 6.685	-20 26 57.46	4	9007	9582 S 9	YK	644
7 29	22 58 18.5493	1	18 9 21.390	-51 34 26.37	4	9009	8589 S12	MY	1347
7 29	22 58 26.5373	1	17 27 16.410	0 47 54.99	4	9011	10074 S 8	DM	661
7 29	22 58 26.5383	1	18 19 2.662	-21 9 25.71	4	9007	9582 S10	YK	645
7 29	22 58 26.5493	1	18 9 13.002	-52 0 19.70	4	9009	8589 S13	MY	654
7 29	22 58 34.5367	1	17 26 59.478	0 8 38.58	4	9011	10074 S 9	DM	662
7 29	22 58 34.5382	1	18 18 58.762	-21 51 48.13	4	9007	9582 S11	YK	646
7 29	22 58 34.5492	1	18 9 5.196	-52 26 21.13	4	9009	8589 S14	MY	655
8 2	2 27 14.5392	1	15 50 32.363	-14 5 47.54	4	9010	10348 S 2	PL	1379
8 2	2 27 14.5411	1	14 48 45.513	5 21 27.71	4	9009	8646 S13	MY	1075
8 2	2 27 22.5394	1	15 50 15.537	-14 39 49.48	4	9010	10348 S 3	PL	1082
8 2	2 27 22.5410	1	14 48 40.642	4 45 13.57	4	9009	8646 S15	MY	1076
8 2	2 27 30.5395	1	15 49 58.982	-15 13 36.16	4	9010	10348 S 4	PL	1083
8 2	2 27 30.5402	1	14 48 35.740	4 9 10.35	4	9009	8646 S17	MY	1077
8 2	2 27 38.5396	1	15 49 41.871	-15 47 3.01	4	9010	10348 S 5	PL	1380
8 2	2 27 38.5410	1	14 48 30.355	3 33 10.11	4	9009	8646 S19	MY	1078
8 2	2 27 46.5397	1	15 49 24.795	-16 20 17.74	4	9010	10348 S 6	PG	1085
8 2	2 27 46.5413	1	14 48 24.606	2 57 19.89	4	9009	8646 S21	MY	1079
8 2	2 27 54.5400	1	15 49 7.483	-16 53 16.96	4	9010	10348 S 7	PG	1381
8 2	2 27 54.5413	1	14 48 18.541	2 21 37.43	4	9009	8646 S23	MY	1080
8 6	0 42 50.5521	1	16 14 10.618	12 17 5.60	4	9011	10155 S 5	DM	828
8 6	0 42 50.5598	1	16 25 7.344	-46 53 42.10	4	9009	8693 S 4	DM	824
8 6	0 42 58.5521	1	16 13 38.714	11 41 54.38	4	9011	10155 S 6	DM	829
8 6	0 42 58.5592	1	16 24 27.459	-47 21 7.51	4	9009	8693 S 5	DM	825
8 6	0 43 6.5521	1	16 13 6.714	11 6 24.30	4	9011	10155 S 7	DM	830
8 6	0 43 6.5597	1	16 23 47.390	-47 48 18.99	4	9009	8693 S 6	DM	826
8 6	0 43 14.5520	1	16 12 34.355	10 30 41.39	4	9011	10155 S 8	DM	831
8 6	0 43 14.5596	1	16 23 6.464	-48 15 16.80	4	9009	8693 S 7	DM	1456
10 26	8 48 50.6058	1	6 13 32.691	3 3 44.68	4	9010	11361 S 3	HC	3038
10 26	8 48 50.6176	1	7 53 6.188	- 3 22 47.25	4	9001	12280 S 3	HC	3030
10 26	8 48 58.6058	1	6 13 4.379	3 49 4.95	4	9010	11361 S 4	HC	3039
10 26	8 48 58.6177	1	7 53 10.014	- 2 52 44.88	4	9001	12280 S 4	HC	3031
10 26	8 49 6.6060	1	6 12 36.041	4 34 41.22	4	9010	11361 S 5	HC	3040
10 26	8 49 6.6174	1	7 53 13.102	- 2 22 34.39	4	9001	12280 S 5	HC	3688
10 26	8 49 14.6060	1	6 12 7.830	5 20 34.41	4	9010	11361 S 6	HC	3041
10 26	8 49 14.6175	1	7 53 18.214	- 1 52 10.24	4	9001	12280 S 6	HC	3033
10 26	8 49 22.6061	1	6 11 39.082	6 6 41.41	4	9010	11361 S 7	HC	3042
10 26	8 49 22.6176	1	7 53 23.004	- 1 21 37.37	4	9001	12280 S 7	HC	3034
10 26	8 49 30.6062	1	6 11 10.420	6 53 5.54	4	9010	11361 S 8	HC	3043
10 26	8 49 30.6174	1	7 53 28.042	- 0 50 49.79	4	9001	12280 S 8	HC	3035
10 26	8 49 38.6065	1	6 10 41.416	7 39 45.77	4	9010	11361 S 9	HC	3044
10 26	8 49 38.6176	1	7 53 33.635	- 0 19 53.97	4	9001	12280 S 9	HC	3036
10 26	8 49 46.6067	1	6 10 12.076	8 26 36.32	4	9010	11361 S10	HC	3045
10 26	8 49 46.6175	1	7 53 39.325	0 11 11.66	4	9001	12280 S10	HC	3037
10 26	8 53 38.6124	1	5 53 34.623	32 10 21.62	4	9010	11362 S 2	LD	2528

Satellite 1961 Alpha Delta 1

26 October 1963

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 10 26	8 53 38.6166	1	7 59 29.349	16 32 57.70	9001	12281 S 2	LD	2522
10 26	8 53 46.6125	1	5 52 52.806	32 59 54.32	9010	11362 S 3	LD	2529
10 26	8 53 46.6165	1	7 59 48.829	17 9 18.04	9001	12281 S 3	LD	2523
10 26	8 53 54.6126	1	5 52 10.224	33 49 26.16	9010	11362 S 4	LD	2530
10 26	8 53 54.6164	1	8 0 9.047	17 45 48.40	9001	12281 S 4	LD	2524
10 26	8 54 2.6128	1	5 51 26.811	34 38 48.38	9010	11362 S 5	LD	2531
10 26	8 54 2.6163	1	8 0 29.899	18 22 27.59	9001	12281 S 5	LD	2525
10 26	8 54 10.6131	1	5 50 43.127	35 28 3.54	9010	11362 S 6	LD	2532
10 26	8 54 10.6165	1	8 0 51.249	18 59 11.83	9001	12281 S 6	LD	2526
10 26	8 54 18.6134	1	5 49 57.980	36 17 12.74	9010	11362 S 7	LD	2533
10 26	8 54 18.6168	1	8 1 13.370	19 36 7.36	9001	12281 S 7	LD	2527
10 26	8 56 50.6088	1	5 32 30.116	51 12 37.85	9010	11363 S 3	HC	2683
10 26	8 56 50.6189	1	8 10 35.798	31 36 49.89	9001	12282 S 2	HC	2674
10 26	8 56 58.6091	1	5 31 21.128	51 57 5.31	9010	11363 S 4	HC	2684
10 26	8 56 58.6188	1	8 11 14.437	32 15 27.72	9001	12282 S 3	HC	2675
10 26	8 57 6.6091	1	5 30 10.079	52 41 14.45	9010	11363 S 5	HC	2685
10 26	8 57 6.6189	1	8 11 54.007	32 54 4.21	9001	12282 S 4	HC	2676
10 26	8 57 14.6093	1	8 12 57.165	53 25 5.58	9010	11363 S 6	HC	2686
10 26	8 57 14.6186	1	5 27 42.449	54 8 36.60	9010	12282 S 5	HC	2677
10 26	8 57 22.6095	1	8 13 16.463	34 11 24.61	9001	11363 S 7	HC	2687
10 26	8 57 22.6187	1	5 26 25.229	54 51 44.22	9010	12282 S 6	HC	2678
10 26	8 57 30.6097	1	8 13 59.523	34 50 3.32	9001	11363 S 8	HC	2688
10 26	8 57 38.6098	1	5 25 6.092	55 34 32.05	9010	12282 S 7	HC	2679
10 26	8 57 38.6189	1	8 14 43.793	35 28 45.28	9001	11363 S 9	HC	2689
10 26	8 57 46.6101	1	5 23 44.230	56 17 1.34	9010	12282 S 8	HC	2680
10 26	8 57 46.6190	1	8 15 29.085	36 7 23.20	9001	11363 S10	HC	2690
10 26	8 57 54.6102	1	5 22 20.360	56 59 9.65	9010	11363 S11	HC	2681
10 26	8 57 54.6189	1	8 16 15.945	36 46 2.91	9001	12282 S10	HC	2682
10 26	11 40 26.6175	1	8 42 29.603	29 19 49.06	9012	11670 S 2	RD	2934
10 26	11 40 26.6199	1	4 17 13.908	24 6 19.80	9001	12290 S 3	RD	2692
10 26	11 40 34.6175	1	8 43 4.808	29 50 46.51	9012	11670 S 3	RD	2702
10 26	11 40 34.6200	1	4 16 3.832	24 48 1.72	9001	12290 S 4	RD	2693
10 26	11 40 42.6175	1	8 43 40.778	30 21 43.14	9012	11670 S 4	RD	2935
10 26	11 40 42.6200	1	4 14 52.540	25 29 37.19	9001	12290 S 5	RD	2694
10 26	11 40 50.6174	1	8 44 17.643	30 52 42.66	9012	11670 S 5	RD	2704
10 26	11 40 50.6198	1	4 13 47.320	26 11 7.28	9001	12290 S 6	RD	2695
10 26	11 40 58.6174	1	8 44 55.128	31 23 33.72	9012	11670 S 6	RD	2705
10 26	11 40 58.6200	1	4 12 26.606	26 52 32.09	9001	12290 S 7	RD	2696
10 26	11 41 6.6175	1	8 45 33.924	31 54 21.92	9012	11670 S 7	RD	2706
10 26	11 41 6.6198	1	4 11 12.360	27 33 47.59	9001	12290 S 8	RD	2697
10 26	11 41 22.6179	1	8 46 53.586	32 56 5.15	9012	11670 S 9	RD	2707
10 26	11 41 22.6198	1	4 8 38.906	28 56 3.63	9001	12290 S10	RD	2698
10 26	11 41 30.6181	1	8 47 34.626	33 26 52.55	9012	11670 S10	RD	2708
10 26	11 41 30.6196	1	4 7 20.523	29 36 59.25	9001	12290 S11	RD	2699

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1963 10 26	11 41 38.6183	1	8 48 16.691	33 57 37.37	9012	11670 S11	RO	2936
10 26	11 41 38.6195	1	4 6 1.102	30 17 48.45	9001	12290 S12	RO	2700
10 26	11 46 18.6197	1	9 25 38.102	50 56 47.75	9012	11671 S 5	BA	2716
10 26	11 46 18.6230	1	3 1 19.073	51 26 32.55	9001	12291 S 3	BA	2709
10 26	11 46 26.6196	1	9 27 11.284	51 23 34.81	9012	11671 S 6	BA	2717
10 26	11 46 26.6231	1	2 58 47.702	51 56 31.84	9001	12291 S 4	BA	2710
10 26	11 46 34.6195	1	9 28 45.576	51 49 53.38	9012	11671 S 7	BA	2718
10 26	11 46 34.6231	1	2 56 13.436	52 26 2.29	9001	12291 S 5	BA	2711
10 26	11 46 42.6196	1	9 30 22.672	52 16 15.45	9012	11671 S 8	BA	2719
10 26	11 46 42.6232	1	2 53 36.325	52 55 6.13	9001	12291 S 6	BA	2712
10 26	11 46 50.6196	1	9 32 1.657	52 42 16.29	9012	11671 S 9	BA	2720
10 26	11 46 50.6234	1	2 50 56.444	53 23 44.38	9001	12291 S 7	BA	2713
10 26	11 47 14.6200	1	9 37 11.782	53 59 2.31	9012	11671 S12	BA	2721
10 26	11 47 14.6234	1	2 42 39.510	54 46 45.47	9001	12291 S10	BA	2714
10 26	11 47 22.6202	1	9 39 0.012	54 24 12.62	9012	11671 S13	BA	2722
10 26	11 47 22.6233	1	2 39 47.624	55 13 32.56	9001	12291 S11	BA	2715
10 27	6 55 6.6034	1	8 5 42.257	- 4 49 38.16	9010	11372 S 7	VD	4957
10 27	6 55 6.6264	1	7 56 34.886	14 11 1.40	9009	9349 S15	VD	3455
10 27	6 55 14.6034	1	8 5 43.751	- 4 20 12.20	9010	11372 S 8	VD	3692
10 27	6 55 14.6269	1	7 56 32.155	14 51 18.80	9009	9349 S17	VD	3456
10 27	6 55 30.6035	1	8 5 47.715	- 3 20 51.76	9010	11372 S10	VD	3693
10 27	6 55 30.6269	1	7 56 28.095	16 12 6.53	9009	9349 S21	VD	3457
10 27	6 55 38.6036	1	8 5 50.289	- 2 50 54.16	9010	11372 S11	VD	3694
10 27	6 55 38.6268	1	7 56 26.635	16 52 32.50	9009	9349 S23	VD	3458
10 27	6 55 46.6035	1	8 5 53.023	- 2 20 50.33	9010	11372 S12	VD	3695
10 27	6 55 46.6269	1	7 56 25.571	17 33 2.44	9009	9349 S25	VD	3459
10 27	9 38 42.6033	1	5 10 50.579	-17 52 22.06	9010	11377 S 6	VD	3464
10 27	9 38 42.6286	1	4 4 2.165	2 14 35.14	9009	9353 S 8	VD	3696
10 27	9 38 50.6034	1	5 10 18.171	-17 16 53.66	9010	11377 S 7	VD	3465
10 27	9 38 50.6285	1	4 3 28.653	2 52 50.50	9009	9353 S10	VD	3461
10 27	9 38 58.6032	1	5 9 45.268	-16 41 12.22	9010	11377 S 8	VD	3466
10 27	9 38 58.6282	1	4 2 54.982	3 31 1.82	9009	9353 S12	VD	3462
10 27	9 39 6.6033	1	5 9 12.389	-16 5 13.98	9010	11377 S 9	VD	3467
10 27	9 39 6.6291	1	4 2 20.503	4 9 14.52	9009	9353 S14	VD	3463
10 27	9 40 42.6178	1	7 13 14.860	-13 42 6.15	9001	12304 S 1	LD	8466
10 27	9 40 42.6294	1	3 54 55.134	11 42 11.71	9009	9354 S 6	PL	9556
10 27	9 40 50.6026	1	5 1 36.639	- 7 56 18.02	9010	11378 S 1	PG	9540
10 27	9 40 50.6174	1	7 13 3.326	-13 10 17.51	9001	12304 S 2	LD	8467
10 27	9 40 50.6296	1	3 54 14.835	12 19 20.14	9009	9354 S 8	PL	9557
10 27	9 40 58.6026	1	5 0 59.086	- 7 17 3.77	9010	11378 S 2	PG	9541
10 27	9 40 58.6171	1	7 12 52.077	-12 38 16.27	9001	12304 S 3	LD	8468
10 27	9 40 58.6294	1	3 53 34.238	12 56 20.83	9009	9354 S10	PL	9558
10 27	9 41 6.6028	1	5 0 21.459	- 6 37 38.50	9010	11378 S 3	PG	9542
10 27	9 41 6.6170	1	7 12 42.805	-12 6 0.26	9001	12304 S 4	LD	8469
10 27	9 41 6.6290	1	3 52 53.167	13 33 18.00	9009	9354 S12	PL	9559

CATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 10 27	9 41 14.6028	1	4 59 43.289	- 5 58 2.02	4	9010	11378 S 4	PG	9543
10 27	9 41 14.6172	1	7 12 29.851	-11 33 25.51	4	9001	12304 S 5	LD	8470
10 27	9 41 14.6297	1	3 52 11.589	14 10 5.26	4	9009	9354 S14	PL	9560
10 27	9 41 22.6029	1	4 59 4.862	- 5 18 11.58	4	9010	11378 S 5	PG	9544
10 27	9 41 22.6172	1	7 12 19.155	-11 0 34.34	4	9001	12304 S 6	LD	8471
10 27	9 41 22.6295	1	3 51 29.568	14 46 44.26	4	9009	9354 S16	PL	9561
10 27	9 41 30.6029	1	4 58 25.565	- 4 38 5.77	4	9010	11378 S 6	PG	9545
10 27	9 41 30.6175	1	7 12 8.436	-10 27 24.72	4	9001	12304 S 7	LD	8472
10 27	9 41 30.6289	1	3 50 47.050	15 23 15.20	4	9009	9354 S18	PL	9562
10 27	9 41 38.6173	1	7 11 57.947	- 9 54 2.76	4	9001	12304 S 8	LD	8473
10 27	9 41 38.6295	1	3 50 3.937	15 59 41.44	4	9009	9354 S20	PL	9563
10 27	9 46 34.6110	1	4 27 8.214	22 19 6.20	4	9010	11379 S 5	GL	311
10 27	9 46 34.6196	1	7 7 31.826	13 59 17.40	4	9001	12305 S 4	PL	9551
10 27	9 46 42.6113	1	4 26 4.843	23 2 10.87	4	9010	11379 S 6	GL	312
10 27	9 46 42.6197	1	7 7 28.262	14 43 11.71	4	9001	12305 S 5	PL	9552
10 27	9 46 50.6113	1	4 25 0.685	23 45 6.62	4	9010	11379 S 7	GL	313
10 27	9 46 50.6195	1	7 7 25.255	15 27 20.93	4	9001	12305 S 6	PL	9553
10 27	9 46 58.6115	1	4 23 55.178	24 28 11.14	4	9010	11379 S 8	GL	314
10 27	9 46 58.6196	1	7 7 21.922	16 11 38.96	4	9001	12305 S 7	PL	9554
10 27	9 47 6.6117	1	4 22 49.259	25 10 43.09	4	9010	11379 S 9	GL	315
10 27	9 47 6.6197	1	7 7 19.077	16 56 13.74	4	9001	12305 S 8	PL	9555
10 27	9 47 14.6117	1	4 21 42.212	25 53 21.74	4	9010	11379 S10	GL	316
10 27	9 47 14.6196	1	7 7 16.528	17 41 2.00	4	9001	12305 S 9	PL	17
10 27	12 25 38.6122	1	8 0 47.938	- 4 27 25.41	4	9012	11688 S 1	SJ	8807
10 27	12 25 38.6261	1	4 19 3.914	-16 14 25.69	4	9001	12312 S 4	LD	8474
10 27	12 25 46.6122	1	8 0 43.089	- 3 53 50.68	4	9012	11688 S 2	SJ	8808
10 27	12 25 46.6260	1	4 18 35.191	-15 45 28.98	4	9001	12312 S 5	LD	8475
10 27	12 25 54.6123	1	8 0 38.842	- 3 20 6.13	4	9012	11688 S 3	SJ	8809
10 27	12 25 54.6260	1	4 18 6.348	-15 16 20.21	4	9001	12312 S 6	LD	8476
10 27	12 26 2.6125	1	8 0 34.989	- 2 46 6.51	4	9012	11688 S 4	SJ	8810
10 27	12 26 2.6258	1	4 17 36.989	-14 47 6.72	4	9001	12312 S 7	LD	8477
10 27	12 26 10.6125	1	8 0 31.424	- 2 11 55.79	4	9012	11688 S 5	SJ	8811
10 27	12 26 10.6260	1	4 17 7.515	-14 17 45.08	4	9001	12312 S 8	LD	8478
10 28	7 37 22.6117	1	6 46 51.745	16 23 57.59	4	9011	11137 S 5	LT	8251
10 28	7 37 22.6261	1	7 25 2.247	-41 54 1.96	4	9009	9361 S 2	LT	8244
10 28	7 37 30.6118	1	6 46 20.601	16 57 56.69	4	9011	11137 S 6	LT	8252
10 28	7 37 30.6261	1	7 24 20.428	-41 26 6.92	4	9009	9361 S 4	LT	8245
10 28	7 37 38.6116	1	6 45 49.683	17 31 36.71	4	9011	11137 S 7	LT	9333
10 28	7 37 38.6257	1	7 23 39.172	-40 58 2.18	4	9009	9361 S 6	LT	8246
10 28	7 37 46.6116	1	6 45 18.913	18 5 8.22	4	9011	11137 S 8	LT	8254
10 28	7 37 46.6251	1	7 22 58.426	-40 29 40.90	4	9009	9361 S 8	LT	8247
10 28	7 37 54.6116	1	6 44 48.585	18 38 22.64	4	9011	11137 S 9	LT	9334
10 28	7 37 54.6246	1	7 22 17.802	-40 1 0.94	4	9009	9361 S10	LT	8248
10 28	7 38 2.6115	1	6 44 18.334	19 11 25.10	4	9011	11137 S10	LT	8256
10 28	7 38 2.6262	1	7 21 37.848	-39 32 9.43	4	9009	9361 S12	LT	8249

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1963 10 28	7 38 10.6117	1	6 43 48.042	19 44 22.03	9011	11137 S11	LT	8257
10 28	7 38 10.6258	1	7 20 58.355	-39 3 1.67	9009	9361 S14	LT	8250
10 28	7 46 58.6011	1	7 28 35.728	-15 36 46.96	9010	11386 S 1	PG	9546
10 28	7 46 58.6259	1	6 46 35.750	3 46 54.40	9009	9363 S11	SU	8532
10 28	7 47 6.6011	1	7 28 22.806	-15 4 43.28	9010	11386 S 2	PG	9547
10 28	7 47 6.6259	1	6 46 8.979	4 34 50.54	9009	9363 S13	SU	8533
10 28	7 47 14.6011	1	7 28 10.169	-14 32 34.17	9010	11386 S 3	PG	9548
10 28	7 47 14.6260	1	6 45 42.445	5 22 47.40	9009	9363 S15	SU	8534
10 28	7 47 22.6013	1	7 27 57.763	-14 0 6.00	9010	11386 S 4	PG	9549
10 28	7 47 22.6261	1	6 45 15.807	6 10 54.25	9009	9363 S17	SU	8535
10 28	7 47 30.6013	1	7 27 45.594	-13 27 24.72	9010	11386 S 5	PG	9550
10 28	7 47 30.6261	1	6 44 49.236	6 59 10.74	9009	9363 S19	SU	8536
10 28	7 54 58.6072	1	7 22 34.004	23 48 4.46	9010	11387 S 4	GL	317
10 28	7 54 58.6121	1	8 19 0.262	10 13 13.86	9001	12318 S 2	LD	8479
10 28	7 55 6.6072	1	7 22 36.225	24 33 42.66	9010	11387 S 5	GL	318
10 28	7 55 6.6302	1	6 16 47.638	50 52 12.44	9009	9365 S13	GL	303
10 28	7 55 14.6074	1	7 22 39.156	25 19 24.83	9010	11387 S 6	GL	319
10 28	7 55 14.6123	1	8 19 3.535	11 10 8.03	9001	12318 S 3	LD	8480
10 28	7 55 14.6304	1	6 16 9.567	51 31 49.07	9009	9365 S15	GL	304
10 28	7 55 22.6076	1	7 22 42.445	26 5 11.67	9010	11387 S 7	GL	320
10 28	7 55 22.6304	1	6 15 30.800	52 11 10.54	9009	9365 S17	GL	305
10 28	7 55 30.6081	1	7 22 46.050	26 51 3.73	9010	11387 S 8	GL	321
10 28	7 55 30.6128	1	8 20 20.644	12 7 19.41	9001	12318 S 4	LD	8481
10 28	7 55 30.6305	1	6 14 51.650	52 50 8.34	9009	9365 S19	GL	427
10 28	7 58 26.6123	1	8 30 29.753	23 1 57.60	9001	12319 S 1	LT	8241
10 28	7 58 26.6312	1	5 56 31.026	65 49 31.97	9009	9366 S10	VD	8095
10 28	7 58 42.6123	1	8 31 41.301	24 3 16.99	9001	12319 S 2	LT	8242
10 28	7 58 42.6312	1	5 54 17.603	66 53 9.60	9009	9366 S14	VD	8096
10 28	7 58 46.6310	1	5 53 42.362	67 8 52.78	9009	9366 S15	DM	8002
10 28	7 58 50.6312	1	5 53 7.351	67 24 32.23	9009	9366 S16	DM	8003
10 28	7 58 54.6312	1	5 52 31.102	67 40 7.92	9009	9366 S17	DM	8004
10 28	7 58 58.6128	1	8 32 56.323	25 4 54.73	9001	12319 S 3	LT	8243
10 28	7 58 58.6176	1	7 27 24.013	46 39 8.06	9010	11388 S 3	GL	322
10 28	7 58 58.6314	1	5 51 34.919	67 55 38.84	9009	9366 S18	VD	9323
10 28	7 59 2.6315	1	5 51 17.784	68 11 5.53	9009	9366 S19	DM	8005
10 28	7 59 6.6176	1	7 27 44.205	47 23 33.63	9010	11388 S 4	DM	8006
10 28	7 59 14.6181	1	7 28 5.106	48 7 49.77	9010	11388 S 5	DM	8007
10 28	7 59 22.6185	1	7 28 26.578	48 51 55.52	9010	11388 S 6	DM	8008
10 28	7 59 30.6189	1	7 28 50.137	49 35 48.40	9010	11388 S 7	DM	8009
10 28	8 0 34.6135	1	8 41 39.474	31 17 27.14	9001	12320 S 1	LT	8225
10 28	8 0 34.6307	1	5 33 26.666	73 46 47.42	9009	9367 S 7	GL	307
10 28	8 0 50.6313	1	8 43 20.387	32 19 59.34	9001	12320 S 2	LT	8226
10 28	8 0 50.6313	1	5 29 23.522	74 41 23.90	9009	9367 S11	GL	308
10 28	8 1 6.6140	1	8 45 5.901	33 22 13.43	9001	12320 S 3	LT	8227
10 28	8 1 6.6312	1	5 24 54.558	75 34 52.42	9009	9367 S15	GL	309

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 10 28	8 1 22.6141	1	8 46 56.257	34 24 33.56	4	9001	12320	S 4	LT 8228
10 28	8 1 22.6314	1	5 19 58.310	76 27 8.52	4	9009	9367	S 19	GL 310
10 28	8 4 18.6099	1	9 13 22.923	45 35 55.91	4	9001	12321	S 2	LT 8229
10 28	8 4 18.6241	1	8 5 58.527	73 8 58.12	4	9010	11389	S 6	MY 8553
10 28	8 4 34.6104	1	9 16 28.267	46 34 28.53	4	9001	12321	S 3	LT 8230
10 28	8 4 34.6246	1	8 10 57.936	74 15 47.24	4	9010	11389	S 8	MY 8554
10 28	8 4 50.6113	1	9 19 43.170	47 32 31.00	4	9001	12321	S 4	LT 9332
10 28	8 4 50.6250	1	8 16 38.304	75 20 58.40	4	9010	11389	S 10	MY 8555
10 28	10 34 10.6112	1	4 10 17.227	-9 45 49.61	4	9010	11397	S 2	RO 8267
10 28	10 34 10.6190	1	6 11 1.298	-17 54 42.62	4	9001	12333	S 6	SU 8517
10 28	10 34 18.6112	1	4 9 45.551	-9 13 34.40	4	9010	11397	S 3	RO 8068
10 28	10 34 18.6191	1	6 10 35.599	-17 21 8.11	4	9001	12333	S 7	SU 8518
10 28	10 34 26.6113	1	4 9 13.225	-8 41 7.30	4	9010	11397	S 4	RO 8069
10 28	10 34 26.6191	1	6 10 9.887	-16 47 19.65	4	9001	12333	S 8	SU 8519
10 28	10 34 34.6112	1	4 8 40.471	-8 8 40.02	4	9010	11397	S 5	RO 8070
10 28	10 34 34.6190	1	6 9 43.988	-16 13 13.81	4	9001	12333	S 9	SU 8520
10 28	10 34 42.6111	1	4 8 7.373	-7 36 4.76	4	9010	11397	S 6	RO 8071
10 28	10 34 42.6190	1	6 9 18.052	-15 38 49.38	4	9001	12333	S 10	SU 8521
10 28	10 34 50.6110	1	4 7 33.891	-7 3 20.67	4	9010	11397	S 7	RO 8072
10 28	10 34 50.6189	1	6 8 52.066	-15 4 6.34	4	9001	12333	S 11	SU 8522
10 29	8 30 10.6232	1	6 13 21.924	-12 21 11.52	4	9007	10815	S 3	RO 8448
10 29	8 30 10.6269	1	5 53 59.474	-49 6 36.00	4	9009	9374	S 1	LT 9326
10 29	8 30 18.6228	1	6 12 46.163	-11 32 5.91	4	9007	10815	S 4	RO 8449
10 29	8 30 18.6266	1	5 53 26.647	-48 38 12.94	4	9009	9374	S 3	LT 13
10 29	8 30 26.6225	1	6 12 10.463	-10 43 6.87	4	9007	10815	S 5	RO 8450
10 29	8 30 26.6268	1	5 52 53.929	-48 9 32.87	4	9009	9374	S 5	LT 14
10 29	8 30 34.6108	1	5 39 6.159	12 28 39.36	4	9011	11156	S 11	RO 8462
10 29	8 30 34.6224	1	6 11 35.053	-9 54 12.38	4	9007	10815	S 6	RO 8451
10 29	8 30 34.6260	1	5 52 21.480	-47 40 45.80	4	9009	9374	S 7	LT 7591
10 29	8 30 42.6107	1	5 38 44.599	13 3 56.88	4	9011	11156	S 12	RO 8463
10 29	8 30 42.6219	1	6 10 59.944	-9 5 15.79	4	9007	10815	S 7	RO 8452
10 29	8 30 42.6266	1	5 51 49.445	-47 11 39.79	4	9009	9374	S 9	LT 7592
10 29	8 30 50.6104	1	5 38 22.837	13 38 54.85	4	9011	11156	S 13	RO 8464
10 29	8 30 50.6219	1	6 10 24.872	-8 16 27.23	4	9007	10815	S 8	RO 8453
10 29	8 30 50.6265	1	5 51 17.014	-46 42 12.64	4	9009	9374	S 11	LT 9329
10 29	8 30 58.6107	1	5 38 1.216	14 13 41.39	4	9011	11156	S 14	RO 8465
10 29	8 30 58.6216	1	6 9 49.900	-7 27 42.84	4	9007	10815	S 9	RO 8454
10 29	8 30 58.6270	1	5 50 45.021	-46 12 41.32	4	9009	9374	S 13	LT 7593
10 29	8 31 6.6215	1	6 9 15.396	-6 39 7.33	4	9007	10815	S 10	RO 8455
10 29	8 31 6.6268	1	5 50 13.223	-45 42 52.88	4	9009	9374	S 15	LT 7594
10 29	8 40 42.6086	1	6 23 2.795	-19 26 34.03	4	9010	11406	S 6	VD 9320
10 29	8 40 42.6279	1	5 11 10.627	1 26 58.00	4	9009	9376	S 7	BN 8219
10 29	8 40 50.6085	1	6 22 36.310	-18 51 23.93	4	9010	11406	S 7	VD 8079
10 29	8 40 50.6279	1	5 10 32.077	2 13 52.19	4	9009	9376	S 9	BN 8220
10 29	8 40 50.6087	1	6 22 9.827	-18 15 57.81	4	9010	11406	S 8	VD 8080

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1963 10 29	8 40 58.6275	1	5 9 53.353	3 0 43.15	4	9209	9376 S11	BN	8221
10 29	8 41 6.6087	1	6 21 43.631	-17 40 14.31	4	9010	11406 S 9	VD	8081
10 29	8 41 6.6110	1	5 28 6.926	42 15 23.96	4	9007	10817 S 2	LT	7582
10 29	8 41 6.6281	1	5 9 14.168	3 47 40.28	4	9009	9376 S13	BN	8222
10 29	8 41 14.6090	1	6 21 17.032	-17 4 13.19	4	9010	11406 S10	VD	8082
10 29	8 41 14.6107	1	5 27 29.708	42 43 43.25	4	9007	10817 S 3	LT	7583
10 29	8 41 22.6089	1	6 20 50.736	-16 27 54.81	4	9010	11406 S11	VD	8083
10 29	8 41 22.6106	1	5 26 52.237	43 11 51.15	4	9007	10817 S 4	LT	7584
10 29	8 41 22.6277	1	5 7 55.272	5 21 37.04	4	9009	9376 S17	BN	8223
10 29	8 41 30.6090	1	6 20 23.911	-15 51 13.71	4	9010	11406 S12	VD	8084
10 29	8 41 30.6106	1	5 26 14.495	43 39 46.76	4	9007	10817 S 5	LT	7585
10 29	8 41 30.6282	1	5 7 15.065	6 8 38.85	4	9009	9376 S19	BN	8224
10 29	8 41 38.6091	1	6 19 57.428	-15 14 16.73	4	9010	11406 S13	VD	8085
10 29	8 41 38.6106	1	5 25 36.489	44 7 25.01	4	9007	10817 S 6	LT	7586
10 29	8 41 46.6091	1	6 19 30.598	-14 36 58.57	4	9010	11406 S14	VD	8086
10 29	8 41 46.6107	1	5 24 58.253	44 34 55.66	4	9007	10817 S 7	LT	7587
10 29	8 41 54.6092	1	6 19 3.870	-13 59 22.66	4	9010	11406 S15	VD	8087
10 29	8 41 54.6103	1	5 24 19.529	45 2 2.97	4	9007	10817 S 8	LT	7588
10 29	8 42 2.6098	1	6 18 37.145	-13 21 28.77	4	9010	11406 S16	VD	8088
10 29	8 42 2.6102	1	5 23 40.555	45 29 1.10	4	9007	10817 S 9	LT	9325
10 29	8 42 10.6094	1	6 18 10.076	-12 43 13.49	4	9010	11406 S17	VD	8089
10 29	8 42 10.6103	1	5 23 1.226	45 55 45.54	4	9007	10817 S10	LT	7590
10 29	8 43 54.6086	1	6 12 10.756	-3 56 52.33	4	9010	11407 S 2	PG	9531
10 29	8 43 54.6209	1	7 52 24.635	-8 10 53.60	4	9001	12329 S 1	BA	7790
10 29	8 43 54.6298	1	4 54 2.497	20 4 51.80	4	9009	9377 S 3	DM	8
10 29	8 44 2.6086	1	6 11 42.103	-3 14 13.04	4	9010	11407 S 3	PG	9532
10 29	8 44 2.6207	1	7 52 24.410	-7 42 5.24	4	9001	12329 S 2	BA	7791
10 29	8 44 2.6302	1	4 53 13.953	20 50 8.66	4	9009	9377 S 5	DM	8538
10 29	8 44 10.6086	1	6 11 13.391	-2 31 10.76	4	9010	11407 S 4	PG	9533
10 29	8 44 10.6205	1	7 52 24.658	-7 13 5.29	4	9001	12329 S 3	BA	7792
10 29	8 44 10.6302	1	4 52 24.723	21 35 13.94	4	9009	9377 S 7	DM	8539
10 29	8 44 18.6086	1	6 10 44.332	-1 47 52.39	4	9010	11407 S 5	PG	9534
10 29	8 44 18.6205	1	7 52 25.047	-6 43 57.44	4	9001	12329 S 4	BA	7793
10 29	8 44 18.6303	1	4 51 35.053	22 20 7.73	4	9009	9377 S 9	DM	8540
10 29	8 44 26.6095	1	6 10 15.276	-1 4 12.69	4	9010	11407 S 6	PG	9535
10 29	8 44 26.6205	1	7 52 26.066	-6 14 30.54	4	9001	12329 S 5	BA	7794
10 29	8 44 26.6302	1	4 50 44.657	23 4 49.61	4	9009	9377 S11	DM	8541
10 29	8 44 34.6085	1	6 9 45.925	-0 20 23.14	4	9010	11407 S 7	PG	9536
10 29	8 44 34.6207	1	7 52 27.221	-5 44 56.41	4	9001	12329 S 6	BA	7795
10 29	8 44 42.6095	1	6 9 16.540	0 23 49.28	4	9010	11407 S 8	PG	9537
10 29	8 44 42.6207	1	7 52 28.537	-5 15 13.93	4	9001	12329 S 7	BA	7796
10 29	8 44 42.6303	1	4 49 2.140	24 33 34.96	4	9009	9377 S15	DM	8542
10 29	8 44 50.6085	1	6 8 46.862	1 8 23.21	4	9010	11407 S 9	PG	9538
10 29	8 44 50.6206	1	7 52 30.316	-4 45 13.81	4	9001	12329 S 8	BA	7797
10 29	8 44 50.6304	1	4 48 9.966	25 17 34.31	4	9009	9377 S17	DM	8543

DATE Y M D	TIME (Z-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 1 29	8 44 58.6085	1	6 8 16.900	1 53 10.48	4	9010	11407 S10	PG	9539
1 29	8 44 58.6205	1	7 52 32.442	- 4 15 2.05	4	9001	12329 S 9	BA	7798
1 29	8 44 58.6304	1	4 47 17.230	26 1 22.14	4	9009	9377 S19	DM	8544
1 29	8 47 22.6213	1	7 54 8.764	5 21 57.92	4	9001	12330 S 1	LT	8232
1 29	8 47 22.6311	1	4 29 18.559	38 22 53.20	4	9009	9378 S 2	SU	8523
1 29	8 47 30.6082	1	5 57 56.803	16 50 3.68	4	9010	11408 S 6	RO	8456
1 29	8 47 30.6204	1	7 54 17.505	5 54 49.87	4	9001	12330 S 2	LT	8233
1 29	8 47 30.6318	1	4 28 10.296	39 1 11.19	4	9009	9378 S 4	SU	8524
1 29	8 47 38.6086	1	5 57 20.561	17 39 6.69	4	9010	11408 S 7	RO	8457
1 29	8 47 38.6202	1	7 54 26.807	6 28 50.53	4	9001	12330 S 3	LT	8234
1 29	8 47 38.6313	1	4 27 1.235	39 39 5.42	4	9009	9378 S 6	SU	8525
1 29	8 47 46.6088	1	5 56 44.104	18 28 13.64	4	9010	11408 S 8	RO	8458
1 29	8 47 46.6215	1	7 54 36.640	7 3 8.61	4	9001	12330 S 4	LT	8235
1 29	8 47 46.6313	1	4 25 50.800	40 16 45.84	4	9009	9378 S 8	SU	8526
1 29	8 47 54.6091	1	5 56 7.172	19 17 33.50	4	9010	11408 S 9	RO	8459
1 29	8 47 54.6211	1	7 54 46.761	7 37 31.45	4	9001	12330 S 5	LT	8236
1 29	8 47 54.6312	1	4 24 39.520	40 54 6.24	4	9009	9378 S10	SU	8527
1 29	8 48 2.6094	1	5 55 29.559	20 6 57.26	4	9010	11408 S10	RO	8460
1 29	8 48 2.6203	1	7 54 57.329	8 12 10.30	4	9001	12330 S 6	LT	8237
1 29	8 48 2.6314	1	4 23 27.127	41 31 5.21	4	9009	9378 S12	SU	8528
1 29	8 48 10.6083	1	5 54 51.779	20 56 22.77	4	9010	11408 S11	RO	8461
1 29	8 48 10.6204	1	7 55 8.602	8 47 0.66	4	9001	12330 S 7	LT	8238
1 29	8 48 10.6315	1	4 22 13.668	42 7 44.14	4	9009	9378 S14	SU	8529
1 29	8 48 18.6215	1	7 55 20.045	9 21 57.24	4	9001	12330 S 8	LT	8239
1 29	8 48 18.6316	1	4 20 58.938	42 44 2.25	4	9009	9378 S16	SU	8530
1 29	8 48 26.6206	1	7 55 31.955	9 57 4.28	4	9001	12330 S 9	LT	8240
1 29	8 48 26.6316	1	4 19 43.293	43 19 58.53	4	9009	9378 S18	SU	8531
1 29	8 50 51.6124	1	5 40 2.290	37 24 3.25	4	9010	11409 S 1	MY	8819
1 29	8 50 50.6216	1	8 0 36.501	20 58 55.04	4	9001	12331 S 1	BA	7799
1 29	8 50 50.6320	1	3 53 4.812	53 8 2.70	4	9009	9379 S 1	MY	8827
1 29	8 50 58.6125	1	5 39 9.448	38 12 23.21	4	9010	11409 S 2	MY	8820
1 29	8 50 58.6216	1	8 0 58.987	21 37 5.68	4	9001	12331 S 2	BA	7800
1 29	8 50 58.6321	1	3 51 21.243	53 37 23.13	4	9009	9379 S 3	MY	8828
1 29	8 51 6.6127	1	5 38 15.252	39 0 37.06	4	9010	11409 S 3	MY	8821
1 29	8 51 6.6215	1	8 1 22.328	22 15 23.50	4	9001	12331 S 3	BA	7801
1 29	8 51 6.6322	1	3 49 35.322	54 6 23.53	4	9009	9379 S 5	MY	8829
1 29	8 51 14.6129	1	5 37 20.332	39 48 36.81	4	9010	11409 S 4	MY	8822
1 29	8 51 14.6214	1	8 1 46.286	22 53 49.06	4	9001	12331 S 4	BA	7802
1 29	8 51 14.6321	1	3 47 47.639	54 35 4.72	4	9009	9379 S 7	MY	8830
1 29	8 51 22.6130	1	5 36 24.238	40 36 22.71	4	9010	11409 S 5	MY	8823
1 29	8 51 22.6212	1	8 2 10.940	23 32 17.47	4	9001	12331 S 5	BA	9331
1 29	8 51 22.6321	1	3 45 58.323	55 3 18.96	4	9009	9379 S 9	MY	8831
1 29	8 51 30.6132	1	5 35 26.858	41 23 57.88	4	9010	11409 S 6	MY	9330
1 29	8 51 30.6212	1	8 2 36.345	24 10 56.97	4	9001	12331 S 6	BA	7803
1 29	8 51 30.6322	1	3 44 6.561	55 31 16.04	4	9009	9379 S11	MY	8832

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1963 10 29	8 51 38.6134	1	5 34 28.261	42 11 20.01	4	9010	11409 S 7	MY	8824
10 29	8 51 38.6216	1	8 3 2.473	24 49 41.64	4	9001	12331 S 7	BA	7804
10 29	8 51 46.6139	1	5 33 28.691	42 58 27.87	4	9010	11409 S 8	MY	8825
10 29	8 51 46.6214	1	8 3 29.534	25 28 29.35	4	9001	12331 S 8	BA	7805
10 29	8 51 46.6320	1	3 40 17.517	56 26 4.41	4	9009	9379 S15	MY	8833
10 29	8 51 54.6140	1	5 32 27.715	43 45 20.41	4	9010	11409 S 9	MY	8826
10 29	8 51 54.6218	1	8 3 57.390	26 7 27.25	4	9001	12331 S 9	BA	7806
10 29	8 51 54.6320	1	3 38 19.793	56 52 55.11	4	9009	9379 S17	MY	8834
10 29	8 52 2.6142	1	5 31 25.268	44 31 56.88	4	9010	11409 S10	MY	15
10 29	8 52 2.6219	1	8 4 25.605	26 46 26.49	4	9001	12331 S10	BA	7807
10 29	8 52 2.6319	1	3 36 19.886	57 19 26.94	4	9009	9379 S19	MY	8835
10 29	8 53 30.6208	1	5 18 12.363	52 45 45.16	4	9010	11410 S 1	PG	8556
10 29	8 53 30.6230	1	8 10 39.838	33 59 34.95	4	9001	12332 S 2	SU	7861
10 29	8 53 30.6335	1	3 11 46.395	61 47 37.21	4	9009	9380 S 1	MY	8545
10 29	8 53 38.6211	1	5 16 48.501	53 28 41.16	4	9010	11410 S 2	PG	8557
10 29	8 53 38.6229	1	8 11 19.885	34 39 9.28	4	9001	12332 S 3	SU	7862
10 29	8 53 38.6335	1	3 9 16.760	62 9 50.26	4	9009	9380 S 3	MY	8546
10 29	8 53 46.6213	1	5 15 22.532	54 11 16.21	4	9010	11410 S 3	PG	8558
10 29	8 53 46.6229	1	8 12 1.319	35 18 44.30	4	9001	12332 S 4	SU	7863
10 29	8 53 46.6334	1	3 6 44.755	62 31 42.84	4	9009	9380 S 5	MY	8547
10 29	8 53 54.6215	1	5 13 54.248	54 53 32.22	4	9010	11410 S 4	PG	8559
10 29	8 53 54.6230	1	8 12 43.738	35 58 17.69	4	9001	12332 S 5	SU	7864
10 29	8 53 54.6335	1	3 4 10.109	62 53 11.43	4	9009	9380 S 7	MY	8548
10 29	8 54 2.6217	1	5 12 23.211	55 35 26.50	4	9010	11410 S 5	PG	8560
10 29	8 54 2.6331	1	8 13 27.448	36 37 53.33	4	9001	12332 S 6	SU	7865
10 29	8 54 2.6333	1	3 1 32.055	63 14 14.60	4	9009	9380 S 9	MY	8549
10 29	8 54 10.6219	1	5 10 49.321	56 16 54.68	4	9010	11410 S 6	PG	8561
10 29	8 54 10.6234	1	8 14 12.613	37 17 26.98	4	9001	12332 S 7	SU	7866
10 29	8 54 10.6335	1	2 58 51.963	63 34 57.80	4	9009	9380 S11	MY	8550
10 29	8 54 18.6221	1	5 9 13.203	56 58 7.47	4	9010	11410 S 7	PG	9324
10 29	8 54 18.6234	1	8 14 58.526	37 57 0.12	4	9001	12332 S 8	SU	7867
10 29	8 54 18.6335	1	2 56 8.226	63 55 21.50	4	9009	9380 S13	MY	8551
10 29	8 54 26.6225	1	5 7 33.800	57 38 50.39	4	9010	11410 S 8	PG	8563
10 29	8 54 26.6236	1	8 15 46.062	38 36 29.70	4	9001	12332 S 9	SU	7868
10 29	8 54 26.6337	1	2 53 21.445	64 15 22.07	4	9009	9380 S15	MY	8552
10 29	8 55 30.6219	1	8 22 59.999	43 50 35.12	4	9001	12339 S 3	BN	8209
10 29	8 55 30.6235	1	4 52 15.043	62 50 35.03	4	9010	11411 S 3	GL	9307
10 29	8 55 38.6219	1	8 24 1.720	44 29 29.96	4	9001	12339 S 4	BN	8210
10 29	8 55 38.6237	1	4 50 1.890	63 27 42.73	4	9010	11411 S 4	GL	8503
10 29	8 55 46.6220	1	8 25 4.968	45 8 15.80	4	9001	12339 S 5	BN	12
10 29	8 55 46.6239	1	4 47 44.353	64 4 22.73	4	9010	11411 S 5	GL	8504
10 29	8 55 54.6220	1	8 26 10.410	45 46 56.61	4	9001	12339 S 6	BN	8212
10 29	8 55 54.6240	1	4 45 21.363	64 40 35.85	4	9010	11411 S 6	GL	8505
10 29	8 56 2.6220	1	8 27 17.605	46 25 27.16	4	9001	12339 S 7	BN	8213
10 29	8 56 2.6242	1	4 42 53.238	65 16 22.57	4	9010	11411 S 7	GL	9308

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1963 10 29	8 56 10.6222	1	8 28 27.433	47 3 54.95	9001	12339 S 8	BN	8214
10 29	8 56 10.6243	1	4 40 19.639	65 51 40.78	9010	11411 S 8	GL	8507
10 29	8 56 18.6222	1	8 29 38.847	47 42 11.92	9001	12339 S 9	BN	8215
10 29	8 56 18.6247	1	4 37 39.834	66 26 32.66	9010	11411 S 9	GL	8508
10 29	8 56 26.6224	1	8 30 52.573	48 20 20.38	9001	12339 S10	BN	8216
10 29	8 56 26.6249	1	4 34 53.940	67 3 55.24	9010	11411 S10	GL	8509
10 29	8 56 34.6228	1	8 32 8.443	48 58 18.14	9001	12339 S11	BN	8217
10 29	8 56 34.6252	1	4 32 1.599	67 34 51.05	9010	11411 S11	GL	8510
10 29	8 56 42.6231	1	8 33 26.674	49 36 6.63	9001	12339 S12	BN	8218
10 29	8 56 42.6254	1	4 29 2.609	68 8 14.64	9010	11411 S12	GL	8511
10 29	22 32 18.5944	1	5 37 9.890	-14 59 20.06	9006	9138 S 2	DM	8010
10 29	22 32 22.6132	1	7 41 2.897	-12 30 18.38	9008	14846 S 3	DM	8013
10 29	22 32 38.6129	1	7 40 48.878	-11 29 3.30	9008	14846 S 5	DM	8014
10 29	22 32 46.6133	1	7 40 42.338	-10 58 3.84	9008	14846 S 6	DM	8015
10 29	22 32 54.6138	1	7 40 36.125	-10 26 52.89	9008	14846 S 7	DM	8016
10 29	22 33 2.6137	1	7 40 29.987	-9 55 25.23	9008	14846 S 8	DM	8017
10 29	22 33 6.5965	1	5 33 54.204	-11 15 40.67	9006	9138 S 5	DM	8011
10 29	22 33 22.5969	1	5 32 46.769	-9 58 47.28	9006	9138 S 6	DM	8012
10 29	22 41 50.6284	1	7 46 22.661	32 36 49.93	9008	14848 S 5	DM	9008
10 29	22 42 6.6287	1	7 47 7.949	34 3 52.15	9008	14848 S 7	DM	9009
10 29	22 42 10.6402	1	4 35 30.190	38 41 56.52	9006	9141 S 3	DM	9005
10 29	22 42 14.6286	1	7 47 31.954	34 47 24.94	9008	14848 S 8	DM	9010
10 29	22 42 22.6291	1	7 47 56.875	35 30 55.91	9008	14848 S 9	DM	9011
10 29	22 42 30.6293	1	7 48 22.653	36 14 28.35	9008	14848 S10	DM	9012
10 29	22 42 42.6416	1	4 29 40.503	41 34 7.02	9006	9141 S 5	DM	9006
10 29	22 42 56.6420	1	4 26 33.964	42 58 36.03	9006	9141 S 6	DM	9007
10 29	22 43 14.6424	1	4 23 20.331	44 21 46.22	9006	9141 S 7	DM	9361
11 2	6 48 10.7119	1	8 5 5.659	-3 34 40.00	9010	11467 S 7	GL	8512
11 2	6 48 18.7120	1	8 5 6.763	-3 3 22.62	9010	11467 S 8	GL	9309
11 2	6 48 34.7120	1	8 5 9.466	-2 0 9.76	9010	11467 S10	GL	5
11 2	6 48 42.7121	1	8 5 11.507	-1 28 21.43	9010	11467 S11	GL	8515
11 2	6 48 50.7123	1	8 5 13.787	-0 56 21.30	9010	11467 S12	GL	8516
11 3	7 30 34.7268	1	6 36 25.149	18 48 16.79	9011	11189 S10	SU	7869
11 3	7 30 42.7265	1	6 35 55.901	19 21 27.17	9011	11189 S11	BA	9325
11 3	7 30 50.7266	1	6 35 26.334	19 54 23.57	9011	11189 S12	SU	7870
11 3	7 30 50.7314	1	7 9 17.383	-40 10 53.25	9009	9412 S11	VD	8090
11 3	7 30 58.7269	1	6 34 57.289	20 27 10.90	9211	11189 S13	SU	9318
11 3	7 30 58.7308	1	7 8 37.581	-39 40 45.98	9009	9412 S13	VD	9321
11 3	7 31 2.7309	1	7 8 17.956	-39 25 34.81	9009	9412 S14	BA	9322
11 3	7 31 6.7269	1	6 34 28.225	20 59 45.97	9011	11189 S14	SU	7872
11 3	7 31 6.7315	1	7 7 58.355	-39 10 17.59	9009	9412 S15	VD	8092
11 3	7 31 10.7308	1	7 7 38.605	-38 55 2.87	9009	9412 S16	BA	9323
11 3	7 31 14.7270	1	6 33 59.675	21 31 59.00	9011	11189 S15	SU	9319
11 3	7 31 14.7312	1	7 7 19.246	-38 39 37.22	9009	9412 S17	VD	8093
11 3	7 31 22.7272	1	6 33 30.497	22 4 4.25	9011	11189 S16	SU	7874

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	ORBS.NO.
1963 11 3	7 31 22.7313	1	7 6 40.414	-38 8 39.78	9009	9412 S19	VD	9322
11 3	7 31 26.7305	1	7 6 21.299	-37 53 4.39	9009	9412 S20	BA	9324
11 3	7 31 30.7272	1	6 33 2.623	-22 35 45.46	9011	11189 S17	SU	7875
11 3	7 37 22.7131	1	7 37 28.035	-24 55 54.71	9010	11478 S 4	RO	8073
11 3	7 37 22.7318	1	6 41 28.148	-9 36 29.35	9009	9413 S 1	DM	11
11 3	7 37 26.7318	1	6 41 12.745	-9 13 51.58	9009	9413 S 2	BA	9317
11 3	7 37 30.7132	1	7 27 9.429	-24 27 18.77	9010	11478 S 5	RO	8074
11 3	7 37 30.7321	1	6 40 57.574	-8 51 14.23	9009	9413 S 3	DM	9018
11 3	7 37 34.7318	1	6 40 42.194	-8 28 34.90	9009	9413 S 4	BA	9318
11 3	7 37 38.7132	1	7 26 50.722	-23 58 22.76	9010	11478 S 6	RO	8075
11 3	7 37 38.7320	1	6 40 26.799	-8 5 46.47	9009	9413 S 5	DM	9019
11 3	7 37 42.7320	1	6 40 11.579	-7 42 55.40	9009	9413 S 6	BA	9319
11 3	7 37 46.7128	1	7 26 32.621	-23 29 15.28	9010	11478 S 7	BA	9320
11 3	7 37 54.7128	1	7 26 14.583	-22 59 53.81	9010	11478 S 8	BA	9321
11 3	7 38 2.7134	1	7 25 57.101	-22 30 18.25	9010	11478 S 9	RO	8076
11 3	7 38 2.7325	1	6 38 55.339	-5 47 44.63	9009	9413 S11	DM	9020
11 3	7 38 10.7133	1	7 25 39.215	-22 0 26.74	9010	11478 S10	RO	9317
11 3	7 38 10.7319	1	6 38 14.843	-5 1 15.51	9009	9413 S13	DM	9021
11 3	7 42 2.7188	1	7 18 25.371	-5 39 28.42	9010	11479 S 2	GL	8038
11 3	7 42 2.7335	1	6 23 23.758	18 34 29.81	9009	9414 S 5	BA	7539
11 3	7 42 10.7188	1	7 18 13.152	-5 1 30.14	9010	11479 S 3	GL	8039
11 3	7 42 10.7332	1	6 22 51.000	19 23 54.46	9009	9414 S 7	BA	9297
11 3	7 42 18.7188	1	7 18 0.789	-4 23 10.53	9010	11479 S 4	GL	8040
11 3	7 42 18.7332	1	6 22 18.126	20 13 21.61	9009	9414 S 9	BA	7541
11 3	7 45 38.7231	1	7 13 49.342	13 4 24.74	9010	11480 S 5	DM	9012
11 3	7 45 38.7349	1	6 7 4.893	39 53 32.56	9009	9415 S 4	DM	9
11 3	7 45 46.7232	1	7 13 41.456	13 49 28.25	9010	11480 S 6	DM	9013
11 3	7 45 46.7355	1	6 6 22.712	40 37 31.37	9009	9415 S 6	DM	9008
11 3	7 46 2.7237	1	7 13 26.283	15 20 13.36	9010	11480 S 8	DM	9014
11 3	7 46 2.7357	1	6 4 57.935	42 4 40.94	9009	9415 S10	DM	10
11 3	7 46 10.7239	1	7 13 19.176	16 5 52.87	9010	11480 S 9	DM	9015
11 3	7 46 10.7357	1	6 4 14.322	42 47 52.02	9009	9415 S12	DM	9010
11 3	7 46 18.7241	1	7 13 12.134	16 51 44.43	9010	11480 S10	DM	9016
11 3	7 46 18.7358	1	6 3 30.413	43 30 38.05	9009	9415 S14	DM	9011
11 7	8 26 42.7201	1	5 24 20.395	27 52 56.61	9007	10940 S 3	RO	8061
11 7	8 26 42.7234	1	6 18 5.562	-31 49 56.98	9010	11506 S 6	PG	8564
11 7	8 26 50.7201	1	5 23 48.961	28 27 24.68	9007	10940 S 4	RO	8062
11 7	8 26 50.7234	1	6 17 37.740	-31 20 31.57	9010	11506 S 7	PG	8565
11 7	8 26 58.7199	1	5 23 17.799	29 1 37.85	9007	10940 S 5	RO	8063
11 7	8 26 58.7233	1	6 17 9.700	-30 50 50.41	9010	11506 S 8	PG	8566
11 7	8 27 6.7197	1	5 22 45.925	29 35 28.09	9007	10940 S 6	RO	8064
11 7	8 27 6.7233	1	6 16 41.652	-30 20 56.12	9010	11506 S 9	PG	8567
11 7	8 27 14.7197	1	5 22 14.116	30 9 4.35	9007	10940 S 7	RO	8065
11 7	8 27 14.7233	1	6 16 13.356	-29 50 47.42	9010	11506 S10	PG	8568
11 7	8 27 22.7194	1	5 21 42.211	30 42 24.72	9007	10940 S 8	RO	8066

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 11 7	8 27 22.7233	1	6 15 45.328	-29 20 18.82	9010	11506 S11	PG	8569
11 9	7 29 54.7238	1	7 21 18.447	-26 15 14.97	9010	11547 S 5	PG	8570
11 9	7 29 54.7304	1	6 44 14.988	32 41 32.41	9007	10980 S 5	DM	9002
11 9	7 30 18.7238	1	7 20 57.612	-25 46 14.25	9010	11547 S 6	PG	8571
11 9	7 30 2.7303	1	6 43 45.129	33 15 50.28	9007	10980 S 6	DM	9003
11 9	7 30 10.7240	1	7 20 36.973	-25 16 54.06	9010	11547 S 7	PG	8572
11 9	7 30 10.7305	1	6 43 15.356	33 49 55.84	9007	10980 S 7	DM	9004
11 9	7 30 18.7238	1	7 20 16.593	-24 47 19.39	9010	11547 S 8	PG	8573
11 9	7 30 18.7302	1	6 42 45.542	34 23 49.04	9007	10980 S 8	DM	9005
11 9	7 30 26.7242	1	7 19 56.015	-24 17 31.90	9010	11547 S 9	PG	8574
11 9	7 30 26.7306	1	6 42 15.753	34 57 23.84	9007	10980 S 9	DM	9006
11 10	8 15 37.7417	1	5 24 7.971	-47 42 5.09	9009	9480 S10	MY	9908
11 10	8 15 38.7333	1	5 43 55.115	-11 39 41.53	9007	10994 S 2	MY	355
11 10	8 15 41.7418	1	5 23 57.337	-47 27 29.60	9009	9480 S11	MY	9909
11 10	8 15 45.7415	1	5 23 46.461	-47 12 53.44	9009	9480 S12	MY	9910
11 10	8 15 45.7416	1	5 23 35.820	-46 58 11.28	9009	9480 S13	MY	9911
11 10	8 15 53.7415	1	5 23 24.801	-46 43 30.76	9009	9480 S14	MY	9912
11 10	8 15 54.7330	1	5 43 2.786	-10 2 36.65	9007	10994 S 4	MY	356
11 10	8 15 57.7415	1	5 23 14.318	-46 28 45.42	9009	9480 S15	MY	410
11 10	8 16 10.7324	1	5 42 10.578	-8 26 5.81	9007	10994 S 6	MY	357
11 10	8 16 18.7321	1	5 41 44.687	-7 37 59.51	9007	10994 S 7	MY	358
11 10	8 16 26.7323	1	5 41 18.642	-6 50 2.03	9007	10994 S 8	MY	359
11 10	8 18 57.7418	1	5 14 44.658	-34 25 53.01	9009	9481 S 7	MY	9896
11 10	8 18 58.7311	1	5 33 2.313	7 42 42.06	9007	10995 S 1	MY	9903
11 10	8 19 1.7419	1	5 14 32.591	-34 8 25.90	9009	9481 S 8	MY	9897
11 10	8 19 5.7416	1	5 14 20.377	-33 50 59.80	9009	9481 S 9	MY	9898
11 10	8 19 9.7418	1	5 14 8.509	-33 33 28.27	9009	9481 S10	MY	9899
11 10	8 19 13.7412	1	5 13 56.328	-33 15 56.62	9009	9481 S11	MY	9900
11 10	8 19 17.7420	1	5 13 44.272	-32 58 16.82	9009	9481 S12	MY	9901
11 10	8 19 21.7414	1	5 13 32.007	-32 40 34.82	9009	9481 S13	MY	9902
11 10	8 19 22.7306	1	5 31 42.539	9 52 12.80	9007	10995 S 4	MY	9904
11 10	8 19 30.7301	1	5 31 15.491	10 34 46.86	9007	10995 S 5	MY	9905
11 10	8 19 38.7298	1	5 30 49.029	11 17 2.56	9007	10995 S 6	MY	9906
11 10	8 19 46.7299	1	5 30 21.880	11 58 58.95	9007	10995 S 7	MY	9907
11 10	8 22 25.7428	1	5 3 24.627	-18 4 48.09	9009	9482 S12	MY	9400
11 10	8 22 26.7264	1	5 20 58.564	24 53 36.69	9007	10996 S 3	MY	9407
11 10	8 22 29.7429	1	5 3 10.191	-17 44 31.72	9009	9482 S13	MY	9401
11 10	8 22 33.7430	1	5 2 55.704	-17 24 11.23	9009	9482 S14	MY	9402
11 10	8 22 34.7264	1	5 23 28.633	25 29 5.94	9007	10996 S 4	MY	9408
11 10	8 22 37.7429	1	5 2 41.170	-17 3 49.35	9009	9482 S15	MY	9403
11 10	8 22 41.7431	1	5 2 26.547	-16 43 21.23	9009	9482 S16	MY	9404
11 10	8 22 42.7261	1	5 19 58.810	26 4 16.89	9007	10996 S 5	MY	9409
11 10	8 22 45.7431	1	5 2 11.913	-16 22 56.28	9009	9482 S17	MY	9405
11 10	8 22 49.7430	1	5 1 57.299	-16 2 22.06	9009	9482 S18	MY	9406
11 10	8 22 58.7260	1	5 18 58.174	27 13 40.78	9007	10996 S 7	MY	9410

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1963 11 10	8 23 22.7257	1	5 17 26.289	28 55 37.40	9007	10996 S10	MY	9411
11 10	8 25 53.7436	1	4 49 25.386	0 17 29.51	9009	9483 S10	DM	1189
11 10	8 25 54.7249	1	5 6 52.119	38 42 11.38	9007	10997 S 3	DM	1180
11 10	8 25 57.7436	1	4 49 7.025	0 39 19.22	9009	9483 S11	DM	1190
11 10	8 26 1.7433	1	4 48 48.787	1 1 5.81	9009	9483 S12	DM	1191
11 10	8 26 2.7249	1	5 6 15.879	39 10 25.99	9007	10997 S 4	DM	1181
11 10	8 26 5.7436	1	4 48 30.268	1 22 50.25	9009	9483 S13	DM	1192
11 10	8 26 9.7430	1	4 48 11.926	1 44 38.86	9009	9483 S14	DM	1193
11 10	8 26 13.7437	1	4 47 53.253	2 6 24.71	9009	9483 S15	DM	1194
11 10	8 26 17.7435	1	4 47 34.481	2 28 14.40	9009	9483 S16	DM	1195
11 10	8 26 18.7246	1	5 5 2.490	40 6 10.72	9007	10997 S 6	DM	1182
11 10	8 26 26.7247	1	5 4 25.403	40 33 41.98	9007	10997 S 7	DM	1183
11 10	8 26 42.7247	1	5 3 9.806	41 28 1.05	9007	10997 S 9	DM	1184
11 10	8 30 9.7451	1	4 26 16.825	22 58 29.08	9009	9484 S 5	BA	267
11 10	8 30 10.6379	1	7 48 2.758	- 5 19 39.64	9001	12499 S 3	BA	262
11 10	8 30 17.7452	1	4 25 24.709	23 38 31.41	9009	9484 S 7	BA	268
11 10	8 30 21.7453	1	4 24 58.300	23 58 33.76	9009	9484 S 8	BA	269
11 10	8 30 25.7453	1	4 24 31.820	24 18 28.99	9009	9484 S 9	BA	270
11 10	8 30 29.7453	1	4 24 5.035	24 38 21.09	9009	9484 S10	BA	271
11 10	8 30 33.7453	1	4 23 38.350	24 58 12.14	9009	9484 S11	BA	272
11 10	8 30 34.6376	1	7 47 57.653	- 3 41 11.20	9001	12499 S 6	BA	263
11 10	8 30 50.6374	1	7 47 55.558	- 2 34 24.32	9001	12499 S 8	BA	264
11 10	8 30 58.6368	1	7 47 54.986	- 2 0 40.61	9001	12499 S 9	BA	265
11 10	8 31 6.6370	1	7 47 54.573	- 1 26 43.39	9001	12499 S10	BA	266
11 10	22 24 26.7369	1	4 40 54.443	19 40 33.98	9006	9399 S 2	GL	9305
11 10	22 24 26.7404	1	7 26 9.425	19 21 59.91	9008	14959 S 2	YK	8185
11 10	22 24 34.7372	1	4 39 52.983	20 23 22.55	9006	9399 S 3	GL	9306
11 10	22 24 34.7404	1	7 26 8.352	20 7 21.43	9008	14959 S 3	YK	8186
11 10	22 24 42.7375	1	4 38 50.396	21 6 7.35	9006	9399 S 4	GL	8500
11 10	22 24 42.7413	1	7 26 7.633	20 52 48.17	9008	14959 S 4	YK	8187
11 10	22 24 50.7373	1	4 37 47.446	21 48 54.32	9006	9399 S 5	GL	8501
11 10	22 24 50.7410	1	7 26 7.089	21 38 29.43	9008	14959 S 5	YK	8188
11 10	22 24 58.7377	1	4 36 43.155	22 31 34.42	9006	9399 S 6	GL	8502
11 10	22 24 58.7410	1	7 26 7.035	22 24 15.87	9008	14959 S 6	YK	8189
11 11	5 24 42.7455	1	6 50 58.785	- 4 17 15.29	9001	12525 S 3	DM	8198
11 11	5 24 42.7475	1	3 37 13.071	19 16 36.83	9009	9503 S 6	DM	8204
11 11	5 24 50.7457	1	6 50 40.129	- 3 38 5.76	9001	12525 S 4	DM	8199
11 11	5 24 50.7476	1	3 36 30.354	19 47 8.39	9009	9503 S 8	DM	8205
11 11	5 24 58.7459	1	6 50 21.778	- 2 58 39.32	9001	12525 S 5	DM	8200
11 11	5 24 58.7478	1	3 35 46.983	20 17 30.55	9009	9503 S10	DM	8206
11 11	5 25 14.7457	1	6 49 44.530	- 1 38 49.36	9001	12525 S 7	DM	8201
11 11	5 25 14.7481	1	3 34 18.899	21 17 49.89	9009	9503 S14	DM	8207
11 11	5 25 22.7456	1	6 49 26.013	- 0 58 25.84	9001	12525 S 8	DM	8202
11 11	5 25 22.7478	1	3 33 34.059	21 47 48.54	9009	9503 S16	DM	7
11 11	5 25 30.7458	1	6 49 7.295	- 0 17 42.17	9001	12525 S 9	DM	8203

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 11 11	5 25 30.7477	1	3 32 48.730	22 17 36.09	4	9009	9503 S18	DM	8208
11 11	5 28 18.7416	1	6 42 23.483	15 6 39.17	4	9001	12526 S 7	BA	273
11 11	5 28 26.7412	1	6 42 3.331	15 53 37.13	4	9001	12526 S 8	BA	274
11 11	5 28 34.7410	1	6 41 42.971	16 40 45.84	4	9001	12526 S 9	BA	275
11 11	5 28 42.7408	1	6 41 22.393	17 28 16.12	4	9001	12526 S10	BA	276
11 11	5 28 58.7407	1	6 40 41.068	19 3 45.25	4	9001	12526 S12	BA	277
11 11	5 29 10.7487	1	3 8 10.747	34 51 40.99	4	9009	9504 S 7	MY	9393
11 11	5 29 14.7487	1	3 7 39.197	35 4 11.61	4	9009	9504 S 8	MY	9394
11 11	5 29 18.7489	1	3 7 7.670	35 16 31.66	4	9009	9504 S 9	MY	9395
11 11	5 29 22.7477	1	6 39 37.669	21 29 22.47	4	9001	12526 S14	BA	278
11 11	5 29 22.7490	1	3 6 36.005	35 28 54.50	4	9009	9504 S10	MY	9396
11 11	5 29 26.7488	1	3 6 4.251	35 41 11.55	4	9009	9504 S11	MY	9397
11 11	5 29 30.7489	1	3 5 32.184	35 53 26.31	4	9009	9504 S12	MY	9398
11 11	5 29 38.7488	1	3 4 27.304	36 17 45.14	4	9009	9504 S14	MY	9399
11 11	12 17 22.7326	1	7 52 15.602	48 18 22.47	4	9012	11844 S 3	YK	8179
11 11	12 17 22.7432	1	3 25 0.984	20 52 0.49	4	9001	12532 S 8	SU	7562
11 11	12 17 30.7325	1	7 52 38.481	48 59 33.28	4	9012	11844 S 4	YK	8180
11 11	12 17 31.7433	1	3 23 59.737	21 19 59.18	4	9001	12532 S 9	SU	7563
11 11	12 17 38.7327	1	7 53 2.170	49 40 26.74	4	9012	11844 S 5	YK	8181
11 11	12 17 38.7433	1	3 22 57.421	21 47 48.68	4	9001	12532 S10	SU	7564
11 11	12 17 46.7324	1	7 53 27.067	50 21 16.84	4	9012	11844 S 6	YK	8182
11 11	12 17 46.7434	1	3 21 54.644	22 15 33.31	4	9001	12532 S11	SU	7565
11 11	12 17 54.7327	1	7 53 53.101	51 1 47.88	4	9012	11844 S 7	YK	9315
11 11	12 17 54.7434	1	3 20 51.078	22 43 11.01	4	9001	12532 S12	SU	7566
11 11	12 18 2.7328	1	7 54 20.298	51 42 4.35	4	9012	11844 S 8	YK	8183
11 11	12 18 2.7434	1	3 19 46.828	23 10 46.55	4	9001	12532 S13	SU	7567
11 11	12 18 10.7337	1	7 54 48.322	52 22 13.53	4	9012	11844 S 9	YK	8184
11 11	12 18 10.7432	1	3 18 41.507	23 38 13.05	4	9001	12532 S14	SU	7568
11 12	7 18 34.7265	1	6 26 31.435	14 30 48.43	4	9011	11300 S 2	DM	8190
11 12	7 18 34.7300	1	7 10 53.611	- 7 16 34.65	4	9007	11031 S 1	YK	8171
11 12	7 18 42.7264	1	6 26 3.012	15 6 16.31	4	9011	11300 S 3	DM	8191
11 12	7 18 42.7298	1	7 10 12.276	- 6 29 36.28	4	9007	11031 S 2	YK	8172
11 12	7 18 50.7264	1	6 25 34.904	15 41 23.07	4	9011	11300 S 4	DM	9316
11 12	7 18 50.7296	1	7 9 31.300	- 5 42 41.98	4	9007	11031 S 3	YK	8173
11 12	7 18 58.7263	1	6 25 6.821	16 16 13.74	4	9011	11300 S 5	DM	8193
11 12	7 18 58.7292	1	7 8 50.721	- 4 55 49.30	4	9007	11031 S 4	YK	8174
11 12	7 19 6.7262	1	6 24 38.846	16 50 52.16	4	9011	11300 S 6	DM	8194
11 12	7 19 6.7292	1	7 8 10.471	- 4 9 3.66	4	9007	11031 S 5	YK	8175
11 12	7 19 14.7262	1	6 24 11.148	17 25 0.56	4	9011	11300 S 7	DM	8195
11 12	7 19 14.7291	1	7 7 30.538	- 3 22 17.48	4	9007	11031 S 6	YK	8176
11 12	7 19 30.7260	1	6 23 15.709	18 32 52.32	4	9011	11300 S 9	DM	8196
11 12	7 19 30.7287	1	7 6 11.727	- 1 49 7.35	4	9007	11031 S 8	YK	8177
11 12	7 19 46.7260	1	6 22 21.012	19 39 31.93	4	9011	11300 S11	DM	8197
11 12	7 19 46.7285	1	7 4 54.296	- 0 16 20.17	4	9007	11031 S10	YK	8178
11 13	8 11 54.7315	1	5 20 2.994	10 9 25.76	4	9011	11329 S 7	SU	7569

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1963 11 13	8 11 54.7424	1	5 37 21.174	-11 59 45.36	9007	11048 S 1	HC	8055
11 13	8 12 2.7316	1	5 19 49.149	10 43 50.20	9011	11329 S 8	SU	7570
11 13	8 12 2.7422	1	5 36 57.541	-11 11 38.20	9007	11048 S 2	HC	8056
11 13	8 12 10.7315	1	5 19 35.400	11 17 57.05	9011	11329 S 9	SU	7571
11 13	8 12 10.7418	1	5 36 33.816	-10 23 35.55	9007	11048 S 3	HC	8057
11 13	8 12 18.7315	1	5 19 21.444	11 51 47.74	9011	11329 S10	SU	7572
11 13	8 12 18.7420	1	5 36 10.359	-9 35 40.22	9007	11048 S 4	HC	6
11 13	8 12 26.7315	1	5 19 7.311	12 25 22.27	9011	11329 S11	SU	7573
11 13	8 12 26.7415	1	5 35 46.772	-8 47 47.90	9007	11048 S 5	HC	8059
11 13	8 12 34.7314	1	5 18 53.109	12 58 40.60	9011	11329 S12	SU	7574
11 13	8 12 34.7413	1	5 35 23.240	-8 0 9.03	9007	11048 S 6	HC	8060
11 13	11 12 34.7384	1	8 29 38.699	7 58 41.69	9012	11880 S 1	SU	7575
11 13	11 12 34.7546	1	4 37 55.751	-5 20 51.21	9012	12574 S 2	HC	8048
11 13	11 12 42.7382	1	8 29 45.713	8 32 20.94	9012	11880 S 2	SU	7576
11 13	11 12 42.7546	1	4 37 17.034	-4 46 47.62	9001	12574 S 3	HC	8049
11 13	11 12 50.7382	1	8 29 53.306	9 6 11.87	9012	11880 S 3	SU	7577
11 13	11 12 50.7547	1	4 36 37.875	-4 12 34.70	9001	12574 S 4	HC	8050
11 13	11 12 58.7381	1	8 30 1.188	9 40 2.59	9012	11880 S 4	SU	7578
11 13	11 12 58.7548	1	4 35 58.128	-3 38 14.27	9001	12574 S 5	HC	8051
11 13	11 13 6.7384	1	8 30 9.557	10 14 4.21	9012	11880 S 5	SU	7579
11 13	11 13 6.7545	1	4 35 18.156	-3 3 49.57	9001	12574 S 6	HC	8052
11 13	11 13 14.7385	1	8 30 18.426	10 48 15.51	9012	11880 S 6	SU	7580
11 13	11 13 14.7545	1	4 34 37.448	-2 29 13.77	9001	12574 S 7	HC	8053
11 13	11 13 22.7388	1	8 30 27.685	11 22 28.41	9012	11880 S 7	SU	7581
11 13	11 13 22.7543	1	4 33 56.416	-1 54 32.64	9001	12574 S 8	HC	8054
11 13	11 18 26.7361	1	8 43 20.074	33 49 16.20	9012	11881 S 2	SJ	8799
11 13	11 18 26.7522	1	4 0 40.579	20 50 13.86	9001	12575 S 2	PL	8994
11 13	11 18 34.7360	1	8 43 54.484	34 24 50.75	9012	11881 S 3	SJ	8800
11 13	11 18 34.7527	1	3 59 33.791	21 26 0.97	9001	12575 S 3	PL	8995
11 13	11 18 42.7361	1	8 44 29.838	35 0 18.89	9012	11881 S 4	SJ	8801
11 13	11 18 42.7525	1	3 58 26.045	22 1 45.21	9001	12575 S 4	PL	8996
11 13	11 18 50.7357	1	8 45 6.117	35 35 46.80	9012	11881 S 5	SJ	8802
11 13	11 18 50.7527	1	3 57 17.352	22 37 25.03	9001	12575 S 5	PL	8997
11 13	11 18 58.7412	1	8 45 43.407	36 11 8.51	9012	11881 S 6	SJ	8803
11 13	11 18 58.7525	1	3 56 0.044	23 12 54.79	9001	12575 S 6	PL	8998
11 13	11 19 6.7364	1	8 46 21.679	36 46 26.20	9012	11881 S 7	SJ	8804
11 13	11 19 6.7525	1	3 54 57.262	23 48 23.66	9001	12575 S 7	PL	8999
11 13	11 19 14.7364	1	8 47 1.033	37 21 40.75	9012	11881 S 8	SJ	8805
11 13	11 19 14.7525	1	3 53 45.947	24 21 44.27	9001	12575 S 8	PL	9000
11 13	11 19 22.7366	1	8 47 41.475	37 56 51.31	9012	11881 S 9	SJ	8806
11 13	11 19 22.7524	1	3 52 33.408	24 58 57.48	9001	12575 S 9	PL	9001
11 13	11 24 2.7364	1	9 26 50.727	56 59 35.45	9012	11882 S 1	PL	8986
11 13	11 24 2.7506	1	2 57 41.934	43 33 26.10	9001	12576 S 4	MY	8140
11 13	11 24 10.7364	1	9 28 35.421	57 28 40.62	9012	11882 S 2	PL	8987
11 13	11 24 10.7506	1	2 55 42.526	44 0 38.09	9001	12576 S 5	MY	8141

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 11 13	11 24 18.7364	1	9 30 23.219	57 57 28.77	9012	11882 S 3	PL	8988
11 13	11 24 18.7506	1	2 53 41.030	44 27 35.20	9001	12576 S 6	MY	8142
11 13	11 24 26.7364	1	9 32 13.573	58 26 2.04	9012	11882 S 4	PL	8989
11 13	11 24 26.7505	1	2 51 38.199	44 54 8.88	9001	12576 S 7	MY	8143
11 13	11 24 34.7365	1	9 34 7.642	58 54 22.26	9012	11882 S 5	PL	8990
11 13	11 24 34.7507	1	2 49 33.322	45 20 25.61	9001	12576 S 8	MY	8144
11 13	11 24 42.7366	1	9 36 4.467	59 22 22.45	9012	11882 S 6	PL	8991
11 13	11 24 42.7506	1	2 47 26.896	45 46 20.61	9001	12576 S 9	MY	8145
11 13	11 24 50.7367	1	9 38 4.615	59 50 5.13	9012	11882 S 7	PL	8992
11 13	11 24 50.7506	1	2 45 18.636	46 11 54.31	9001	12576 S10	MY	8146
11 13	11 24 58.7368	1	9 40 8.219	60 17 34.74	9012	11882 S 8	PL	8993
11 13	11 24 58.7506	1	2 43 8.745	46 37 12.28	9001	12576 S11	MY	8147
11 13	22 16 10.7331	1	5 5 0.860	- 4 19 0.01	9006	9458 S 3	MY	8148
11 13	22 16 10.7351	1	7 25 50.576	- 4 31 34.07	9008	15004 S 4	PG	9312
11 13	22 16 26.7336	1	5 3 40.385	- 3 1 1.25	9006	9458 S 5	MY	8149
11 13	22 16 26.7355	1	7 25 29.314	- 3 16 7.34	9008	15004 S 6	PG	7789
11 13	22 16 34.7340	1	5 2 59.481	- 2 21 49.86	9006	9458 S 6	MY	8150
11 13	22 16 34.7352	1	7 25 19.015	- 2 37 58.20	9008	15004 S 7	PG	9313
11 13	22 20 34.7442	1	4 38 12.619	18 11 35.86	9006	9460 S 2	SJ	8812
11 13	22 20 34.7457	1	7 21 29.076	18 31 41.76	9008	15005 S 1	HC	8041
11 13	22 20 42.7444	1	4 37 12.228	18 53 25.78	9006	9460 S 3	SJ	8813
11 13	22 20 42.7458	1	7 21 24.544	19 17 38.21	9008	15005 S 2	HC	8042
11 13	22 20 50.7445	1	4 36 10.973	19 35 16.04	9006	9460 S 4	SJ	8814
11 13	22 20 50.7461	1	7 21 19.743	20 3 39.07	9008	15005 S 3	HC	8043
11 13	22 20 58.7446	1	4 35 9.133	20 17 6.03	9006	9460 S 5	SJ	8815
11 13	22 20 58.7463	1	7 21 15.771	20 49 53.98	9008	15005 S 4	HC	8044
11 13	22 21 6.7447	1	4 34 6.141	20 58 51.50	9006	9460 S 6	SJ	8816
11 13	22 21 6.7466	1	7 21 11.638	21 36 12.86	9008	15005 S 5	HC	9314
11 13	22 21 14.7450	1	4 33 2.156	21 40 31.52	9006	9460 S 7	SJ	8817
11 13	22 21 14.7469	1	7 21 7.936	22 22 49.14	9008	15005 S 6	HC	8046
11 13	22 21 22.7449	1	4 31 57.310	22 22 8.11	9006	9460 S 8	SJ	8818
11 13	22 21 22.7469	1	7 21 4.205	23 9 24.40	9008	15005 S 7	HC	8047
11 13	22 24 58.7485	1	3 55 30.051	40 7 17.33	9006	9461 S 2	SJ	7546
11 13	22 25 6.7490	1	3 53 49.229	40 43 26.96	9006	9461 S 3	SJ	7547
11 13	22 25 6.7538	1	7 21 24.139	45 13 2.94	9008	15006 S 1	MY	8133
11 13	22 25 14.7492	1	3 52 6.562	41 19 20.55	9006	9461 S 4	SJ	7548
11 13	22 25 14.7540	1	7 21 30.465	45 59 34.47	9008	15006 S 2	MY	8134
11 13	22 25 22.7494	1	3 50 22.289	41 54 53.91	9006	9461 S 5	SJ	7549
11 13	22 25 22.7543	1	7 21 37.558	46 45 56.06	9008	15006 S 3	MY	8135
11 13	22 25 30.7499	1	3 48 36.147	42 30 9.09	9006	9461 S 6	SJ	7550
11 13	22 25 30.7544	1	7 21 44.765	47 32 4.75	9008	15006 S 4	MY	8136
11 13	22 25 38.7500	1	3 46 48.217	43 5 6.54	9006	9461 S 7	SJ	7551
11 13	22 25 38.7546	1	7 21 52.646	48 18 5.62	9008	15006 S 5	MY	8137
11 13	22 25 46.7501	1	3 44 58.322	43 39 41.75	9006	9461 S 8	SJ	7552
11 13	22 25 46.7552	1	7 22 1.460	49 3 59.16	9008	15006 S 6	MY	8138

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 11 13	22 25 54.7553	1	7 22 10.721	49 49 38.44	4	9008	15006 S 7	MY	8139
11 14	6 30 10.7285	1	8 3 8.156	-17 6 35.82	4	9010	11580 S 2	PG	7781
11 14	6 30 10.7356	1	7 46 51.615	36 7 8.72	4	9007	11068 S 7	SJ	7553
11 14	6 30 18.7285	1	8 2 58.020	-16 37 56.26	4	9010	11580 S 3	PG	7782
11 14	6 30 18.7354	1	7 46 35.052	36 37 48.67	4	9007	11068 S 8	SJ	7554
11 14	6 30 26.7286	1	8 2 48.176	-16 9 0.89	4	9010	11580 S 4	PG	7783
11 14	6 30 26.7352	1	7 46 18.872	37 8 18.44	4	9007	11068 S 9	SJ	7555
11 14	6 30 34.7285	1	8 2 38.711	-15 39 56.66	4	9010	11580 S 5	PG	7784
11 14	6 30 34.7354	1	7 46 2.593	37 38 38.57	4	9007	11068 S10	SJ	7556
11 14	6 30 42.7285	1	8 2 29.225	-15 10 37.89	4	9010	11580 S 6	PG	9311
11 14	6 30 42.7351	1	7 45 46.758	38 8 47.43	4	9007	11068 S11	SJ	7557
11 14	6 30 50.7285	1	8 2 20.426	-14 41 7.21	4	9010	11580 S 7	PG	7785
11 14	6 30 50.7352	1	7 45 31.123	38 38 45.80	4	9007	11068 S12	SJ	7558
11 14	6 30 58.7286	1	8 2 11.514	-14 11 23.46	4	9010	11580 S 8	PG	7786
11 14	6 30 58.7351	1	7 45 15.857	39 8 35.26	4	9007	11068 S13	SJ	7559
11 14	6 31 6.7289	1	8 2 3.328	-13 41 28.78	4	9010	11580 S 9	PG	7787
11 14	6 31 6.7350	1	7 45 0.740	39 38 12.45	4	9007	11068 S14	SJ	7560
11 14	6 31 14.7289	1	8 1 54.998	-13 11 14.60	4	9010	11580 S10	PG	7788
11 14	6 31 14.7352	1	7 44 45.623	40 7 38.84	4	9007	11068 S15	SJ	7561
11 14	5 25 14.7543	1	6 34 46.726	18 45 48.71	4	9001	12588 S 5	YK	9302
11 14	5 25 14.7900	1	4 1 27.064	22 17 6.04	4	9010	11586 S 1	PG	7773
11 14	5 25 22.7542	1	6 34 21.826	19 33 59.47	4	9001	12588 S 6	YK	7854
11 14	5 25 22.7900	1	4 0 22.127	22 53 34.80	4	9010	11586 S 2	PG	7774
11 14	5 25 30.7544	1	6 33 56.660	20 22 25.02	4	9001	12588 S 7	YK	7855
11 14	5 25 30.7903	1	3 59 16.746	23 29 54.77	4	9010	11586 S 3	PG	7775
11 14	5 25 38.7542	1	6 33 31.372	21 10 57.42	4	9001	12588 S 8	YK	7856
11 14	5 25 38.7905	1	3 58 10.073	24 6 9.35	4	9010	11586 S 4	PG	7776
11 14	5 25 46.7541	1	6 33 5.586	21 59 41.35	4	9001	12588 S 9	YK	7857
11 14	5 25 46.7906	1	3 57 2.486	24 42 14.41	4	9010	11586 S 5	PG	7777
11 14	5 25 54.7540	1	6 32 39.640	22 48 32.66	4	9001	12588 S10	YK	7858
11 14	5 25 54.7906	1	3 55 54.060	25 18 10.69	4	9010	11586 S 6	PG	7778
11 14	5 26 2.7541	1	6 32 13.463	23 37 32.90	4	9001	12588 S11	YK	123
11 14	5 26 2.7907	1	3 54 44.655	25 53 57.42	4	9010	11586 S 7	PG	7779
11 14	5 26 10.7541	1	6 31 46.828	24 26 41.90	4	9001	12588 S12	YK	9304
11 14	5 26 10.7907	1	3 53 34.672	26 29 33.38	4	9010	11586 S 8	PG	7780
11 14	20 35 38.7515	1	9 10 41.285	38 27 46.57	4	9008	15024 S 2	SJ	7542
11 14	20 35 38.7536	1	7 29 40.568	59 0 3.66	4	9006	9475 S 2	PG	7423
11 14	20 35 46.7514	1	9 11 44.721	38 58 17.75	4	9008	15024 S 3	SJ	7543
11 14	20 35 46.7540	1	7 30 5.525	59 42 27.90	4	9006	9475 S 3	PG	9299
11 14	20 35 54.7514	1	9 12 49.694	39 28 48.34	4	9008	15024 S 4	SJ	7544
11 14	20 35 54.7544	1	7 30 31.270	60 24 34.23	4	9006	9475 S 4	PG	7425
11 14	20 36 2.7515	1	9 13 55.899	39 59 9.07	4	9008	15024 S 5	SJ	7545
11 14	20 36 2.7546	1	7 30 58.696	61 6 27.86	4	9006	9475 S 5	PG	7426
11 15	7 25 14.7323	1	6 20 35.686	43 30 30.05	4	9007	11094 S 3	YK	7843
11 15	7 25 15.2318	1	7 6 24.154	-16 12 6.50	4	9010	11603 S 1	YK	7848

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 11 15	7 25 22.7321	1	6 20 2.313	43 59 27.69	4	9007	11094 S 4	YK	7844
11 15	7 25 23.2319	1	7 6 3.151	-15 36 47.24	4	9013	11603 S 2	YK	7849
11 15	7 25 38.7322	1	6 18 55.385	44 56 45.64	4	9007	11094 S 6	YK	7845
11 15	7 25 39.2320	1	7 5 21.708	-14 25 17.49	4	9010	11603 S 4	YK	9301
11 15	7 25 46.7315	1	6 18 21.623	45 25 0.31	4	9007	11094 S 7	YK	7846
11 15	7 25 47.2321	1	7 5 1.047	-13 48 58.88	4	9010	11603 S 5	YK	7851
11 15	7 25 54.7321	1	6 17 47.730	45 53 10.71	4	9007	11094 S 8	YK	9300
11 15	7 25 55.2323	1	7 4 40.367	-13 12 29.50	4	9010	11603 S 6	YK	7852
11 15	7 26 2.7321	1	6 17 13.503	46 21 2.25	4	9007	11094 S 9	YK	7847
11 15	7 26 3.2324	1	7 4 19.831	-12 35 35.38	4	9010	11603 S 7	YK	7853
11 18	21 28 2.7599	1	3 54 42.238	67 24 53.24	4	9006	9530 S 3	PL	8444
11 18	21 28 2.7659	1	9 4 23.626	58 54 44.35	4	9008	15087 S 5	PL	8440
11 18	21 28 10.7602	1	3 50 50.521	67 53 44.87	4	9006	9530 S 4	PL	8445
11 18	21 28 10.7663	1	9 6 17.789	59 29 19.47	4	9008	15087 S 6	PL	8441
11 18	21 28 18.7605	1	3 46 51.993	68 21 59.45	4	9006	9530 S 5	PL	8446
11 18	21 28 18.7665	1	9 8 15.560	60 3 38.70	4	9008	15087 S 7	PL	8442
11 18	21 28 26.7606	1	3 42 43.137	68 49 31.59	4	9006	9530 S 6	PL	8447
11 18	21 28 26.7670	1	9 10 17.953	60 37 38.80	4	9008	15087 S 8	PL	8443
11 19	C 17 14.7593	1	9 46 28.185	51 38 52.82	4	9004	11308 S 3	PL	8428
11 19	C 17 14.7824	1	1 23 23.303	60 54 44.25	4	9008	15094 S 3	PL	8434
11 19	C 17 22.7592	1	9 48 33.798	52 7 15.30	4	9004	11308 S 4	PL	8429
11 19	C 17 22.7825	1	1 19 55.624	61 6 20.53	4	9008	15094 S 4	PL	8435
11 19	C 17 30.7594	1	9 50 42.862	52 35 18.71	4	9004	11308 S 5	PL	8430
11 19	C 17 30.7826	1	1 16 26.268	61 17 26.50	4	9008	15094 S 5	PL	8436
11 19	C 17 38.7593	1	9 52 54.773	53 3 10.46	4	9004	11308 S 6	PL	8431
11 19	C 17 38.7825	1	1 12 55.587	61 28 1.16	4	9008	15094 S 6	PL	8437
11 19	C 17 46.7591	1	9 55 9.556	53 30 48.20	4	9004	11308 S 7	PL	8432
11 19	C 17 46.7825	1	1 9 23.986	61 38 15.44	4	9008	15094 S 7	PL	8438
11 19	C 17 54.7593	1	9 57 27.804	53 58 6.11	4	9004	11308 S 8	PL	8433
11 19	C 17 54.7827	1	1 5 51.677	61 47 56.82	4	9008	15094 S 8	PL	8439
11 19	E 4 10.7498	1	5 25 39.622	-14 7 45.91	4	9007	11178 S 2	BA	7524
11 19	E 4 10.8014	1	5 6 35.591	-47 47 18.88	4	9009	9548 S13	BA	7531
11 19	E 4 18.7496	1	5 25 21.731	-13 20 34.40	4	9007	11178 S 3	BA	7525
11 19	E 4 18.8015	1	5 6 23.023	-47 18 43.93	4	9009	9548 S15	BA	7532
11 19	E 4 34.7490	1	5 24 45.586	-11 46 27.78	4	9007	11178 S 5	BA	7526
11 19	E 4 34.8009	1	5 5 57.356	-46 20 57.36	4	9009	9548 S19	BA	7533
11 19	E 4 42.7487	1	5 24 27.331	-10 59 32.30	4	9007	11178 S 6	BA	7527
11 19	E 4 42.8012	1	5 5 43.888	-45 51 46.96	4	9009	9548 S21	BA	7534
11 19	E 4 50.7481	1	5 24 9.005	-10 12 48.48	4	9007	11178 S 7	BA	9296
11 19	E 4 50.8014	1	5 5 30.397	-45 22 26.82	4	9009	9548 S23	BA	7535
11 19	E 8 50.7440	1	5 13 57.307	11 38 19.22	4	9007	11179 S 4	BA	7528
11 19	E 8 50.8024	1	4 57 5.221	-29 10 25.16	4	9009	9549 S12	BA	7536
11 19	E 8 58.7441	1	5 13 34.363	12 18 3.05	4	9007	11179 S 5	BA	7529
11 19	E 8 58.8028	1	4 56 45.016	-28 34 56.82	4	9009	9549 S14	BA	7537
11 19	E 9 6.7436	1	5 13 11.417	12 57 33.97	4	9007	11179 S 6	BA	7530

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 11 19	8 9 6.8030	1	4 56 24.337	-27 59 17.53	9009	9549 S16	BA	7538
11 19	19 37 14.7608	1	9 25 33.039	63 22 7.94	9006	9548 S 2	HC	9511
11 19	15 37 14.7688	1	9 39 48.383	41 56 38.93	9008	15106 S 2	SJ	9523
11 19	15 37 22.7608	1	9 28 6.441	63 53 36.80	9006	9548 S 3	HC	9512
11 19	19 37 22.7687	1	9 41 7.253	42 21 21.74	9008	15106 S 3	SJ	9524
11 19	19 37 30.7608	1	9 30 44.902	64 24 40.93	9006	9548 S 4	HC	9513
11 19	19 37 30.7685	1	9 42 27.536	42 46 2.40	9008	15106 S 4	SJ	16
11 19	19 37 38.7612	1	9 33 29.710	64 55 23.55	9006	9548 S 5	HC	9514
11 19	19 37 38.7685	1	9 43 49.293	43 10 37.04	9008	15106 S 5	SJ	9526
11 19	15 37 46.7612	1	9 36 20.582	65 25 41.85	9006	9548 S 6	HC	9515
11 19	19 37 46.7687	1	9 45 12.878	43 35 0.44	9008	15106 S 6	SJ	9527
11 19	19 37 54.7614	1	9 39 17.223	65 55 33.12	9006	9548 S 7	HC	9516
11 19	19 37 54.7685	1	9 46 38.067	43 59 17.97	9008	15106 S 7	SJ	9528
11 19	15 38 2.7615	1	9 42 21.158	66 24 59.23	9006	9548 S 8	HC	9517
11 19	15 38 2.7690	1	9 48 4.455	44 23 30.26	9008	15106 S 8	SJ	9529
11 19	19 38 10.7620	1	9 45 31.459	66 54 0.10	9006	9548 S 9	HC	9518
11 19	19 38 10.7690	1	9 49 32.660	44 47 32.55	9008	15106 S 9	SJ	9530
11 19	15 41 6.7641	1	11 34 8.293	75 4 34.89	9006	9549 S 5	HC	9519
11 19	15 41 6.7700	1	10 29 30.096	52 56 21.45	9008	15106 S 1	PL	8982
11 19	19 41 14.7643	1	11 41 8.466	75 18 10.86	9006	9549 S 6	HC	9520
11 19	19 41 14.7699	1	10 31 42.193	53 16 14.04	9008	15106 S 2	PL	8983
11 19	15 41 22.7644	1	11 48 18.365	75 30 50.19	9006	9549 S 7	HC	9521
11 19	19 41 22.7698	1	10 33 56.759	53 35 51.36	9008	15106 S 3	PL	8984
11 19	19 41 30.7646	1	11 55 35.787	75 42 28.74	9006	9549 S 8	HC	9522
11 19	19 41 30.7701	1	10 36 14.170	53 55 15.40	9008	15106 S 4	PL	8985
11 19	22 4 42.7364	1	5 15 27.647	-22 10 56.65	9006	9553 S 2	SU	8151
11 19	22 4 42.7513	1	7 26 34.355	-22 20 59.87	9008	15107 S 2	SU	8157
11 19	22 4 50.7365	1	5 14 58.173	-21 39 13.56	9006	9553 S 3	SU	8152
11 19	22 4 50.7513	1	7 26 16.267	-21 51 0.63	9008	15107 S 3	SU	8158
11 19	22 4 58.7366	1	5 14 28.389	-21 7 13.34	9006	9553 S 4	SU	8153
11 19	22 4 58.7514	1	7 25 58.256	-21 20 49.85	9008	15107 S 4	SU	8159
11 19	22 5 6.7366	1	5 13 58.550	-20 35 7.00	9006	9553 S 5	SU	8154
11 19	22 5 6.7517	1	7 25 40.276	-20 50 21.93	9008	15107 S 5	SU	8160
11 19	22 5 14.7366	1	5 13 28.484	-20 2 44.75	9006	9553 S 6	SU	8155
11 19	22 5 14.7518	1	7 25 22.619	-20 19 41.30	9008	15107 S 6	SU	8161
11 19	22 5 22.7368	1	5 12 57.915	-19 30 8.54	9006	9553 S 7	SU	8156
11 19	22 5 22.7521	1	7 25 4.917	-19 48 45.78	9008	15107 S 7	SU	8162
11 20	6 17 54.7382	1	7 6 29.916	31 2 36.27	9011	11400 S 3	PG	7416
11 20	6 17 54.7514	1	7 43 52.787	-25 36 54.05	9009	9564 S 6	SU	8163
11 20	6 18 2.7380	1	7 6 3.929	31 30 6.48	9011	11400 S 4	PG	7417
11 20	6 18 2.7502	1	7 43 21.933	-25 1 46.93	9009	9564 S 8	SU	8164
11 20	6 18 10.7381	1	7 5 37.922	31 57 28.22	9011	11400 S 5	PG	7418
11 20	6 18 10.7510	1	7 42 51.083	-24 26 15.48	9009	9564 S10	SU	8165
11 20	6 18 18.7380	1	7 5 12.174	32 24 37.43	9011	11400 S 6	PG	7419
11 20	6 18 18.7506	1	7 42 20.851	-23 50 23.82	9009	9564 S12	SU	8166

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 11 20	6 18 26.7380	1	7 4 46.381	32 51 34.06	4	9011	11400 S 7	PG	7420
11 20	6 18 26.7511	1	7 41 50.784	-23 14 20.04	4	9009	9564 S14	SU	8167
11 20	6 18 34.7380	1	7 4 20.740	33 18 21.81	4	9011	11400 S 8	PG	7421
11 20	6 18 34.7512	1	7 41 20.919	-22 37 57.83	4	9009	9564 S16	SU	8168
11 20	6 18 42.7511	1	7 40 51.280	-22 1 16.37	4	9009	9564 S18	SU	8169
11 20	6 18 50.7381	1	7 3 30.469	34 11 25.44	4	9011	11400 S10	PG	7422
11 20	6 18 50.7508	1	7 40 21.875	-21 24 11.21	4	9009	9564 S20	SU	8170
11 20	6 22 42.7338	1	8 0 1.711	-18 21 1.08	4	9010	11661 S 3	DM	8497
11 20	6 22 42.7534	1	7 27 45.010	-1 25 56.18	4	9009	9565 S 9	PG	7413
11 20	6 22 58.7337	1	7 59 37.264	-17 21 57.79	4	9010	11661 S 5	DM	8498
11 20	6 22 58.7536	1	7 26 58.349	0 4 38.01	4	9009	9565 S13	PG	7634
11 20	6 23 14.7338	1	7 59 13.976	-16 22 3.23	4	9010	11661 S 7	DM	8499
11 20	6 23 14.7537	1	7 26 12.159	1 35 57.38	4	9009	9565 S17	PG	7415
11 20	6 54.7381	1	4 55 16.012	-29 14 18.61	4	9010	11667 S 2	VD	7266
11 20	5 54.7700	1	4 4 22.911	-12 4 23.55	4	9009	9567 S 4	PG	7408
11 20	5 6 2.7383	1	4 54 53.976	-28 45 56.42	4	9010	11667 S 3	VD	7267
11 20	5 6 2.7706	1	4 4 6.654	-11 33 7.85	4	9009	9567 S 5	PG	4
11 20	5 6 10.7381	1	4 54 31.631	-28 17 19.63	4	9010	11667 S 4	VD	7268
11 20	5 6 10.7706	1	4 3 50.149	-11 1 53.04	4	9009	9567 S 6	PG	7410
11 20	5 6 18.7381	1	4 54 9.080	-27 48 34.20	4	9010	11667 S 5	VD	7269
11 20	5 6 18.7706	1	4 3 33.219	-10 30 34.40	4	9009	9567 S 7	PG	7411
11 20	5 6 26.7382	1	4 53 46.386	-27 19 42.70	4	9010	11667 S 6	VD	7270
11 20	5 6 26.7702	1	4 3 15.937	-9 59 15.00	4	9009	9567 S 8	PG	7412
11 22	5 18 42.7455	1	8 0 59.636	23 0 56.16	4	9011	11442 S 7	DM	8489
11 22	5 18 42.7515	1	8 40 35.367	-26 4 46.30	4	9009	9590 S 7	DM	8482
11 22	5 18 50.7455	1	8 0 35.320	23 28 47.42	4	9011	11442 S 8	DM	8490
11 22	5 18 50.7520	1	8 40 9.741	-25 37 9.77	4	9009	9590 S 8	DM	3
11 22	5 18 58.7455	1	8 0 11.019	23 56 34.23	4	9011	11442 S 9	DM	8491
11 22	5 18 58.7521	1	8 39 44.550	-25 9 22.42	4	9009	9590 S 9	DM	8483
11 22	5 19 6.7454	1	7 59 47.272	24 24 6.85	4	9011	11442 S10	DM	8492
11 22	5 19 6.7516	1	8 39 19.479	-24 41 21.65	4	9009	9590 S10	DM	8484
11 22	5 19 14.7456	1	7 59 23.700	24 51 34.93	4	9011	11442 S11	DM	8493
11 22	5 19 14.7517	1	8 38 55.004	-24 13 10.77	4	9009	9590 S11	DM	8485
11 22	5 19 22.7454	1	7 59 0.281	25 18 52.06	4	9011	11442 S12	DM	8494
11 22	5 19 22.7521	1	8 38 31.107	-23 44 44.77	4	9009	9590 S12	DM	8486
11 22	5 19 30.7457	1	7 58 36.989	25 46 3.74	4	9011	11442 S13	DM	8495
11 22	5 19 30.7522	1	8 38 7.333	-23 16 10.36	4	9009	9590 S13	DM	8487
11 22	5 19 38.7457	1	7 58 14.045	26 13 3.08	4	9011	11442 S14	DM	8496
11 22	5 19 38.7523	1	8 37 43.836	-22 47 24.97	4	9009	9590 S14	DM	8488
11 22	6 1 14.7408	1	5 10 30.662	10 56 21.10	4	9011	11451 S 5	VD	7280
11 22	6 1 14.7570	1	5 0 18.915	-44 30 58.75	4	9009	9592 S 9	VD	7271
11 22	6 1 22.7407	1	5 10 20.349	11 28 46.97	4	9011	11451 S 6	VD	7281
11 22	6 1 30.7405	1	5 10 10.172	12 0 57.11	4	9011	11451 S 7	VD	7282
11 22	6 1 30.7561	1	4 59 55.605	-43 31 44.98	4	9009	9592 S13	VD	7272
11 22	6 7 54.7330	1	5 54 51.500	-33 19 28.47	4	9010	11684 S 1	RO	7256

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 11 22	8 7 54.7577	1	4 45 36.070	-16 9 15.67	9009	9594 S 5	VD	7273
11 22	8 8 2.7331	1	5 54 23.993	-32 50 25.18	9010	11684 S 2	RO	7257
11 22	8 8 2.7577	1	4 45 11.529	-15 31 5.53	9009	9594 S 7	VD	7274
11 22	8 8 10.7331	1	5 53 56.365	-32 21 7.04	9010	11684 S 3	RO	7258
11 22	8 8 10.7582	1	4 44 46.790	-14 52 46.49	9009	9594 S 9	VD	7275
11 22	8 8 18.7332	1	5 53 28.617	-31 51 37.50	9010	11684 S 4	RO	7259
11 22	8 8 18.7582	1	4 44 21.770	-14 14 23.47	9009	9594 S11	VD	7276
11 22	8 8 26.7331	1	5 53 0.669	-31 21 52.71	9010	11684 S 5	RO	7260
11 22	8 8 26.7586	1	4 43 56.114	-13 35 47.83	9009	9594 S13	VD	7277
11 22	8 8 34.7331	1	5 52 32.704	-30 51 55.60	9010	11684 S 6	RO	7261
11 22	8 8 34.7585	1	4 43 30.414	-12 57 12.23	9009	9594 S15	VD	7278
11 22	8 8 42.7332	1	5 52 4.654	-30 21 41.30	9010	11684 S 7	RO	7262
11 22	8 8 42.7582	1	4 43 4.197	-12 18 25.10	9009	9594 S17	VD	7279
11 22	11 16 50.9154	1	1 59 21.339	50 45 52.47	9001	12669 S 4	DM	1178
11 22	11 17 6.7501	1	10 56 53.186	73 22 18.80	9012	12039 S 6	DM	1185
11 22	11 17 14.7501	1	11 1 54.683	73 39 43.51	9012	12039 S 7	DM	1186
11 22	11 17 22.7503	1	11 7 4.931	73 56 28.42	9012	12039 S 8	DM	1187
11 22	11 17 30.7503	1	11 12 25.741	74 12 47.85	9012	12039 S 9	DM	1188
11 22	11 17 38.9162	1	1 44 17.547	52 22 9.40	9001	12669 S 7	DM	1179
11 23	6 39 46.7526	1	10 10 59.026	80 23 43.91	9010	11704 S 6	RO	7263
11 23	6 39 46.7528	1	10 7 10.423	52 54 59.99	9001	12682 S 3	GL	8021
11 23	6 40 2.7534	1	10 11 32.882	53 45 15.99	9001	12682 S 4	GL	8022
11 23	6 40 2.7536	1	10 28 49.548	81 6 32.04	9010	11704 S 7	RO	7264
11 23	6 40 18.7540	1	10 16 6.934	54 34 22.75	9001	12682 S 5	GL	8023
11 23	6 40 18.7550	1	10 49 22.129	81 44 57.32	9010	11704 S 8	RO	7265
11 27	18 36 26.7720	1	11 25 33.534	66 33 30.35	9006	9654 S 4	BA	9311
11 27	18 36 28.5489	1	1 16 20.983	54 59 36.71	9005	9294 S 3	BA	9308
11 27	18 36 34.7717	1	11 29 45.005	66 49 28.48	9006	9654 S 5	BA	9312
11 27	18 36 50.7724	1	11 38 20.898	67 19 51.62	9006	9654 S 7	BA	9313
11 27	18 36 58.7723	1	11 42 45.605	67 34 11.32	9006	9654 S 8	BA	9314
11 27	18 37 0.5486	1	1 4 32.928	55 39 46.45	9005	9294 S 5	BA	9309
11 27	18 37 6.7727	1	11 47 14.509	67 47 52.71	9006	9654 S 9	BA	9315
11 27	18 37 14.7728	1	11 51 47.533	68 0 59.36	9006	9654 S10	BA	9316
11 27	18 37 32.5481	1	0 52 34.818	56 13 39.84	9005	9294 S 7	BA	9310
11 28	5 10 42.7415	1	7 59 37.201	21 17 49.73	9011	11553 S 7	GL	8024
11 28	5 10 42.7566	1	8 40 14.647	-29 40 31.02	9009	9657 S 1	RO	7248
11 28	5 10 50.7415	1	7 59 10.409	21 46 58.10	9011	11553 S 8	GL	8031
11 28	5 10 50.7574	1	8 39 45.198	-29 12 58.82	9009	9657 S 2	RO	7249
11 28	5 10 50.7583	1	8 42 25.369	5 7 55.05	9007	11305 S 5	GL	8024
11 28	5 10 58.7415	1	7 58 43.418	22 16 1.28	9011	11553 S 9	GL	8032
11 28	5 10 58.7567	1	8 39 15.741	-28 45 10.99	9009	9657 S 3	RO	7250
11 28	5 10 58.7580	1	8 41 58.329	5 41 44.06	9007	11305 S 6	GL	8025
11 28	5 11 6.7412	1	7 58 17.195	22 44 49.77	9011	11553 S10	GL	8033
11 28	5 11 6.7572	1	8 38 47.030	-28 17 12.21	9009	9657 S 4	RO	7251
11 28	5 11 6.7581	1	8 41 31.634	6 15 34.93	9007	11305 S 7	GL	8026

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 11 28	5 11 14.7410	1	7 57 51.003	23 13 35.25	9011	11553 S11	GL	9292
11 28	5 11 14.7575	1	8 38 18.626	-27 49 3.51	9009	9657 S 5	RO	7252
11 28	5 11 14.7581	1	8 41 5.538	6 49 23.48	9007	11305 S 8	GL	8027
11 28	5 11 22.7411	1	7 57 25.354	23 42 7.26	9011	11553 S12	GL	8035
11 28	5 11 22.7566	1	8 37 50.686	-27 20 41.86	9009	9657 S 6	RO	7253
11 28	5 11 22.7581	1	8 40 39.665	7 23 6.16	9007	11305 S 9	GL	8028
11 28	5 11 30.7412	1	7 56 59.636	24 10 32.30	9011	11553 S13	GL	9293
11 28	5 11 30.7574	1	8 37 23.003	-26 52 3.74	9009	9657 S 7	RO	7254
11 28	5 11 30.7579	1	8 40 13.958	7 56 52.16	9007	11305 S10	GL	8029
11 28	5 11 38.7410	1	7 56 34.151	24 38 50.82	9011	11553 S14	GL	9294
11 28	5 11 38.7573	1	8 36 55.710	-26 23 14.54	9009	9657 S 8	RO	7255
1964 2 9	4 30 50.8436	1	5 51 38.197	6 2 5.02	9011	12822 S 2	VD	297
2 9	4 30 50.8490	1	5 51 23.895	-42 58 33.34	9009	10255 S 8	PG	128
2 9	4 30 58.8439	1	5 51 37.635	6 32 11.97	9011	12822 S 3	VD	298
2 9	4 30 58.8491	1	5 51 26.973	-42 31 17.27	9009	10255 S 9	PG	129
2 9	4 31 6.8439	1	5 51 36.865	7 2 8.87	9011	12822 S 4	VD	299
2 9	4 31 6.8492	1	5 51 29.413	-42 3 57.84	9009	10255 S10	PG	130
2 9	4 31 14.8439	1	5 51 35.742	7 31 51.74	9011	12822 S 5	VD	300
2 9	4 31 14.8491	1	5 51 31.516	-41 36 30.00	9009	10255 S11	PG	131
2 9	4 31 22.8439	1	5 51 34.468	8 1 21.76	9011	12822 S 6	VD	301
2 9	4 31 22.8487	1	5 51 33.373	-41 8 54.36	9009	10255 S12	PG	132
2 9	4 31 30.8439	1	5 51 32.812	8 30 40.63	9011	12822 S 7	VD	302
2 9	4 31 30.8486	1	5 51 34.570	-40 41 14.75	9009	10255 S13	PG	133
2 9	7 44 50.8500	1	9 32 18.702	71 3 53.88	9012	12732 S 7	NG	960
2 9	7 44 50.8526	1	3 56 24.599	37 24 11.46	9001	13846 S 5	MN	949
2 9	7 44 58.8498	1	9 33 58.834	71 33 59.48	9012	12732 S 8	NG	961
2 9	7 44 58.8528	1	3 54 54.862	37 45 48.18	9001	13846 S 6	MN	950
2 9	7 45 6.8498	1	9 35 45.509	72 3 55.22	9012	12732 S 9	NG	962
2 9	7 45 6.8526	1	3 53 24.236	38 7 14.25	9001	13846 S 7	MN	951
2 9	7 45 14.8498	1	9 37 36.948	72 33 21.72	9012	12732 S10	EM	963
2 9	7 45 14.8534	1	3 51 52.699	38 28 28.72	9001	13846 S 8	TA	952
2 9	7 45 22.8503	1	9 39 35.990	73 2 57.63	9012	12732 S11	EM	964
2 9	7 45 22.8532	1	3 50 20.170	38 49 30.78	9001	13846 S 9	TA	953
2 11	3 33 14.8444	1	6 54 35.913	-14 26 6.54	9007	12214 S 7	DM	9950
2 11	3 33 14.8510	1	6 34 55.747	-48 38 0.57	9009	10282 S 6	MN	954
2 11	3 33 22.8442	1	6 54 12.987	-13 38 27.34	9007	12214 S 8	DM	9951
2 11	3 33 22.8516	1	6 34 38.339	-48 9 24.54	9009	10282 S 7	MN	955
2 11	3 33 30.8436	1	6 53 50.313	-12 50 53.34	9007	12214 S 9	DM	9763
2 11	3 33 30.8513	1	6 34 20.870	-47 40 37.67	9009	10282 S 8	MN	1545
2 11	3 33 38.8436	1	6 53 27.543	-12 3 25.64	9007	12214 S10	DM	9764
2 11	3 33 38.8512	1	6 34 3.520	-47 11 40.46	9009	10282 S 9	NG	957
2 11	3 33 46.8431	1	6 53 4.825	-11 16 4.95	9007	12214 S11	DM	9765
2 11	3 33 46.8516	1	6 33 45.674	-46 42 30.34	9009	10282 S10	NG	958
2 11	3 33 54.8432	1	6 52 42.283	-10 28 53.53	9007	12214 S12	DM	9766
2 11	3 33 54.8518	1	6 33 27.903	-46 13 5.34	9009	10282 S11	NG	959

Satellite 1961 Alpha Delta 1

13 February - 15 February 1964

DATE		TIME (A-1)		RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS.NO.			
Y	M	D	H	M	S	MS	H	M	S	D	M	S					
1964	2	13	16	51	14.8653	1	6	19	11.438	55	58	6.21	4	9006	10919 S 5	PG	818
	2	13	16	51	22.8680	1	9	50	29.035	46	12	26.73	4	9008	16145 S 4	EM	836
	2	13	16	51	30.8656	1	6	15	32.807	57	13	37.96	4	9006	10919 S 7	PG	819
	2	13	16	51	30.8679	1	9	51	24.535	46	49	13.42	4	9008	16145 S 5	EM	837
2	13	16	51	38.8660	1	6	13	38.870	57	50	55.21	4	9006	10919 S 8	PG	820	
2	13	16	51	38.8683	1	9	52	22.242	47	25	42.04	4	9008	16145 S 6	EM	838	
2	13	16	51	46.8663	1	6	11	41.351	58	27	46.14	4	9006	10919 S 9	PG	821	
2	13	16	51	46.8684	1	9	53	21.680	48	2	6.09	4	9008	16145 S 7	EM	839	
2	13	16	51	54.8665	1	6	9	40.992	59	4	15.18	4	9006	10919 S10	PG	822	
2	13	16	51	54.8685	1	9	54	22.559	48	38	23.65	4	9008	16145 S 8	EM	840	
2	14	3	29	14.8476	1	6	34	3.142	7	1	54.64	4	9011	12902 S 6	PG	114	
2	14	3	29	18.8550	1	6	29	20.234	-48	39	30.08	4	9009	10335 S 3	BN	329	
2	14	3	29	22.8474	1	6	33	52.283	7	36	32.62	4	9011	12902 S 7	PG	115	
2	14	3	29	26.8549	1	6	29	5.765	-48	11	9.69	4	9009	10335 S 4	BN	330	
2	14	3	29	30.8473	1	6	33	41.261	8	10	53.94	4	9011	12902 S 8	PG	116	
2	14	3	29	34.8551	1	6	28	51.504	-47	42	39.34	4	9009	10335 S 5	BN	331	
2	14	3	29	38.8471	1	6	33	30.296	8	44	55.99	4	9011	12902 S 9	PG	117	
2	14	3	29	42.8543	1	6	28	36.775	-47	13	52.84	4	9009	10335 S 6	BN	332	
2	14	3	29	46.8470	1	6	33	18.998	9	18	45.08	4	9011	12902 S10	PG	118	
2	14	3	29	50.8536	1	6	28	22.046	-46	45	0.71	4	9009	10335 S 7	BN	333	
2	14	3	29	54.8469	1	6	33	7.608	9	52	15.87	4	9011	12902 S11	PG	119	
2	14	3	29	58.8536	1	6	28	7.152	-46	15	56.82	4	9009	10335 S 8	BN	334	
2	14	3	30	2.8466	1	6	32	55.838	10	25	31.33	4	9011	12902 S12	PG	120	
2	14	3	30	6.8523	1	6	27	52.217	-45	46	41.82	4	9009	10335 S 9	BN	335	
2	15	2	0	42.8682	1	10	1	35.231	21	34	29.70	4	9001	13936 S 6	VD	303	
2	15	2	0	50.8681	1	10	2	6.032	22	2	3.21	4	9001	13936 S 7	VD	304	
2	15	2	0	58.8684	1	10	2	37.309	22	29	41.76	4	9001	13936 S 8	VD	305	
2	15	2	1	6.8683	1	10	3	9.455	22	57	27.23	4	9001	13936 S 9	VD	306	
2	15	2	1	14.8685	1	10	3	42.038	23	25	10.95	4	9001	13936 S10	VD	307	
2	15	2	1	14.8787	1	8	18	45.064	65	28	46.02	4	9009	10350 S12	PG	823	
2	15	2	1	22.8685	1	10	4	15.620	23	52	59.31	4	9001	13936 S11	VD	308	
2	15	2	1	22.8792	1	8	18	28.467	65	59	48.39	4	9009	10350 S13	PG	824	
2	15	2	1	30.8687	1	10	4	49.411	24	20	50.65	4	9001	13936 S12	VD	1547	
2	15	2	1	30.8793	1	8	18	11.642	66	30	33.48	4	9009	10350 S14	PG	825	
2	15	2	1	38.8794	1	8	17	54.740	67	1	2.41	4	9009	10350 S15	PG	826	
2	15	2	1	46.8795	1	8	17	37.596	67	31	23.16	4	9009	10350 S16	PG	827	
2	15	2	1	54.8796	1	8	17	20.316	68	1	30.02	4	9009	10350 S17	PG	828	
2	15	4	24	42.8577	1	5	28	55.004	-36	38	21.99	4	9009	10351 S 5	VP	1148	
2	15	4	24	50.8488	1	5	50	21.443	11	6	7.30	4	9011	12923 S 5	VP	1153	
2	15	4	24	50.8578	1	5	28	55.856	-36	10	37.10	4	9009	10351 S 6	VP	1149	
2	15	4	24	58.8488	1	5	50	19.013	11	32	55.83	4	9011	12923 S 6	VP	1154	
2	15	4	24	58.8580	1	5	28	56.450	-35	42	42.50	4	9009	10351 S 7	VP	1150	
2	15	4	25	6.8489	1	5	50	16.693	11	59	41.55	4	9011	12923 S 7	VP	1155	
2	15	4	25	6.8577	1	5	28	56.344	-35	14	42.34	4	9009	10351 S 8	VP	1151	
2	15	4	25	14.8488	1	5	50	13.734	12	26	11.23	4	9011	12923 S 8	VP	1156	

Satellite 1961 Alpha Delta 1

15 February - 19 February 1964

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.-NO.
1964 2 15	4 25 14.8577	1	5 28 55.821	-34 46 39.80	9009	10351 S 9	VP	1152
2 15	18 40 26.8734	1	5 50 26.874	59 21 45.82	9008	16155 S 4	AC	841
2 15	18 40 27.8663	1	4 6 2.484	39 57 13.87	9006	10957 S 2	AM	829
2 15	18 40 34.8735	1	5 48 6.770	59 55 54.67	9008	16155 S 5	AC	842
2 15	18 40 35.8659	1	4 4 28.521	40 19 54.78	9006	10957 S 3	AM	830
2 15	18 40 42.8735	1	5 45 42.494	60 29 39.72	9008	16155 S 6	AC	1548
2 15	18 40 43.8661	1	4 2 53.225	40 42 24.14	9006	10957 S 4	AM	831
2 15	18 40 50.8738	1	5 43 13.994	61 3 2.82	9008	16155 S 7	AC	1549
2 15	18 40 51.8664	1	4 1 16.968	41 4 38.78	9006	10957 S 5	AM	832
2 15	18 40 58.8742	1	5 40 41.687	61 35 54.91	9008	16155 S 8	AC	844
2 15	18 40 59.8663	1	3 59 39.520	41 26 41.07	9006	10957 S 6	AM	833
2 15	18 41 6.8741	1	5 38 4.658	62 8 23.56	9008	16155 S 9	AC	845
2 15	18 41 7.8664	1	3 58 1.042	41 48 29.68	9006	10957 S 7	AM	834
2 15	18 41 14.8746	1	5 35 22.845	62 40 25.08	9008	16155 S 10	AC	846
2 15	18 41 15.8664	1	3 56 21.936	42 10 4.30	9006	10957 S 8	AM	835
2 17	2 47 6.8649	1	4 46 58.287	44 51 37.25	9009	10376 S 5	LT	7825
2 17	3 47 14.8651	1	4 45 36.856	45 16 51.79	9009	10376 S 6	LT	7826
2 17	3 47 22.8653	1	4 44 14.616	45 41 45.70	9009	10376 S 7	LT	7827
2 17	3 47 30.8652	1	4 42 51.176	46 6 36.18	9009	10376 S 8	LT	7828
2 17	3 47 33.8622	1	8 54 2.434	26 37 15.06	9001	13994 S 7	LT	7832
2 17	3 47 38.8652	1	4 41 26.746	46 31 7.29	9009	10376 S 9	LT	7829
2 17	3 47 41.8624	1	8 54 8.574	27 20 11.02	9001	13994 S 8	LT	7833
2 17	3 47 46.8655	1	4 40 1.138	46 55 22.72	9009	10376 S 10	LT	7830
2 17	3 47 45.8624	1	8 54 14.993	28 3 13.02	9001	13994 S 9	LT	7834
2 17	3 47 54.8653	1	4 38 34.526	47 19 21.56	9009	10376 S 11	LT	7831
2 17	3 47 57.8624	1	8 54 22.002	28 46 19.40	9001	13994 S 10	LT	7835
2 18	18 39 30.8680	1	3 32 44.855	46 6 52.00	9006	10997 S 10	SU	1259
2 18	18 39 38.8685	1	3 30 52.137	46 24 32.69	9006	10997 S 11	SU	1260
2 18	18 39 46.8684	1	3 28 58.583	46 41 53.59	9006	10997 S 12	SU	1261
2 18	18 39 54.8685	1	3 27 3.825	46 59 3.64	9006	10997 S 13	SU	1262
2 18	18 40 2.8826	1	4 16 24.958	69 57 18.44	9008	16221 S 4	VD	1254
2 18	18 40 10.8686	1	3 23 11.768	47 32 33.15	9006	10997 S 15	SU	1263
2 18	18 40 18.8827	1	4 11 40.811	70 17 33.73	9008	16221 S 5	VD	1255
2 18	18 40 18.8829	1	4 6 48.001	70 37 16.11	9008	16221 S 6	SU	1256
2 18	18 40 26.8831	1	4 1 48.921	70 56 13.05	9008	16221 S 7	SU	1257
2 18	18 40 34.8834	1	3 56 42.992	71 14 27.08	9008	16221 S 8	SU	1258
2 19	2 47 14.8600	1	9 34 35.618	11 16 8.00	9001	14029 S 7	VD	310
2 19	2 47 14.8651	1	6 16 51.609	45 42 33.49	9009	10410 S 8	PG	121
2 19	2 47 18.8653	1	6 16 16.344	45 59 58.94	9009	10410 S 9	PG	122
2 19	2 47 22.8559	1	9 34 48.768	11 48 53.97	9001	14029 S 8	VD	311
2 19	2 47 22.8652	1	6 15 40.617	46 17 21.63	9009	10410 S 10	PG	123
2 19	2 47 26.8654	1	6 15 4.606	46 34 41.45	9009	10410 S 11	PG	124
2 19	2 47 30.8599	1	9 35 2.121	12 21 48.98	9001	14029 S 9	VD	312
2 19	2 47 30.8654	1	6 14 28.284	46 51 51.51	9009	10410 S 12	PG	125
2 19	2 47 34.8652	1	6 13 51.635	47 8 56.99	9009	10410 S 13	PG	126

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A.-(1950.0) H M S	DECL.-(1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 2 19	2 47 38.8599	1	9 35 15.922	12 54 53.09	9001	14029 S10	VD	313
2 19	2 47 38.8650	1	6 13 14.710	47 26 1.05	9009	10410 S14	PG	127
2 19	2 47 46.8601	1	9 35 40.387	13 28 4.82	9001	14029 S11	VD	314
2 19	2 47 54.8601	1	9 35 45.210	14 1 25.82	9001	14029 S12	VD	803
2 19	2 48 2.8602	1	9 36 0.515	14 34 51.84	9001	14029 S13	VD	316
2 19	5 42 2.8576	1	11 3 40.101	51 56 45.40	9012	12833 S 3	PG	7988
2 19	5 42 2.8627	1	4 41 18.245	54 51 5.49	9001	14036 S 2	LT	7818
2 19	5 42 10.8572	1	11 5 11.104	52 21 27.39	9012	12833 S 4	PG	7989
2 19	5 42 10.8625	1	4 38 42.330	55 18 47.45	9001	14036 S 3	LT	7819
2 19	5 42 18.8574	1	11 6 43.875	52 46 1.18	9012	12833 S 5	PG	7990
2 19	5 42 18.8627	1	4 36 3.261	55 46 4.14	9001	14036 S 4	LT	9001
2 19	5 42 26.8575	1	11 8 18.509	53 10 25.88	9012	12833 S 6	PG	7991
2 19	5 42 26.8627	1	4 33 20.977	56 12 53.97	9001	14036 S 5	LT	7821
2 19	5 42 34.8576	1	11 9 54.860	53 34 29.97	9012	12833 S 7	PG	7992
2 19	5 42 34.8628	1	4 30 35.824	56 39 16.76	9001	14036 S 6	LT	7822
2 19	5 42 42.8576	1	11 11 33.976	53 58 30.33	9012	12833 S 8	PG	7993
2 19	5 42 42.8629	1	4 27 47.376	57 5 15.13	9001	14036 S 7	LT	7823
2 19	5 42 50.8576	1	11 13 14.825	54 22 21.08	9012	12833 S 9	PG	7994
2 19	5 42 50.8627	1	4 24 56.398	57 30 44.56	9001	14036 S 8	LT	7824
2 20	0 40 10.8562	1	9 54 15.667	-25 52 16.26	9009	10426 S11	BN	317
2 20	0 40 18.8487	1	9 14 58.841	23 1 2.32	9011	12980 S 2	BN	323
2 20	0 40 18.8560	1	9 53 49.402	-25 25 7.49	9009	10426 S12	BN	318
2 20	0 40 26.8487	1	9 14 34.474	23 28 4.31	9011	12980 S 3	BN	324
2 20	0 40 26.8558	1	9 53 23.762	-24 57 45.23	9009	10426 S13	BN	319
2 20	0 40 34.8487	1	9 14 10.592	23 54 58.43	9011	12980 S 4	BN	325
2 20	0 40 34.8558	1	9 52 58.372	-24 30 12.08	9009	10426 S14	BN	320
2 20	0 40 42.8487	1	9 13 46.609	24 21 43.18	9011	12980 S 5	BN	326
2 20	0 40 42.8561	1	9 52 33.485	-24 2 31.71	9009	10426 S15	BN	321
2 20	0 40 50.8488	1	9 13 22.875	24 48 23.85	9011	12980 S 6	BN	327
2 20	0 40 50.8561	1	9 52 8.708	-23 34 38.18	9009	10426 S16	BN	322
2 20	0 40 58.8487	1	9 12 59.781	25 14 53.77	9011	12980 S 7	BN	328
2 20	0 40 58.8556	1	9 44 54.737	29 9 6.32	9012	12852 S 2	VP	1157
2 20	0 40 58.8613	1	5 27 37.288	13 22 58.10	9001	14059 S 2	PG	7995
2 20	0 40 58.8554	1	9 45 13.423	29 46 12.89	9012	12852 S 3	VP	1158
2 20	0 40 58.8614	1	5 26 45.604	13 55 23.71	9001	14059 S 3	PG	7996
2 20	0 40 58.8556	1	9 45 33.061	30 23 10.83	9012	12852 S 4	VP	1159
2 20	0 40 58.8616	1	5 25 53.334	14 27 47.54	9001	14059 S 4	PG	7997
2 20	0 40 58.8554	1	9 45 53.066	31 0 7.73	9012	12852 S 5	VP	1160
2 20	0 40 58.8616	1	5 25 0.539	15 0 7.66	9001	14059 S 5	PG	7998
2 20	0 40 58.8554	1	9 46 13.736	31 37 4.20	9012	12852 S 6	VP	1161
2 20	0 40 58.8616	1	5 24 6.918	15 32 28.14	9001	14059 S 6	PG	7999
2 20	0 40 58.8556	1	9 46 35.459	32 14 0.81	9012	12852 S 7	VP	1162
2 20	0 40 58.8617	1	5 23 12.942	16 4 46.25	9001	14059 S 7	PG	8000
2 20	0 40 58.8555	1	9 46 57.612	32 50 51.94	9012	12852 S 8	VP	1163
2 20	0 40 58.8618	1	5 22 18.101	16 36 59.91	9001	14059 S 8	PG	8001

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964	2 20	6 33 46.8532	10 14 38.828	55 30 16.19	4	9012	12853 S 5	PG	812
2 20	6 33 46.8607	1	4 36 17.117	36 17 37.74	4	9001	14060 S 4	LT	9755
2 20	6 33 54.8535	1	10 15 51.547	56 1 54.45	4	9012	12853 S 6	PG	813
2 20	6 33 54.8607	1	4 34 47.267	36 44 46.82	4	9001	14060 S 5	LT	9756
2 20	6 34 2.8532	1	10 17 6.387	56 33 28.35	4	9012	12853 S 7	PG	814
2 20	6 34 2.8607	1	4 33 15.752	37 11 45.98	4	9001	14060 S 6	LT	9757
2 20	6 34 10.8533	1	10 18 23.482	57 4 44.99	4	9012	12853 S 8	PG	815
2 20	6 34 10.8606	1	4 31 43.512	37 38 30.48	4	9001	14060 S 7	LT	9758
2 20	6 34 18.8535	1	10 19 42.694	57 35 48.51	4	9012	12853 S 9	PG	816
2 20	6 34 18.8607	1	4 30 10.219	38 5 4.76	4	9001	14060 S 8	LT	9759
2 20	6 34 26.8534	1	10 21 4.458	58 6 33.40	4	9012	12853 S10	PG	817
2 20	6 34 26.8607	1	4 28 35.413	38 31 23.93	4	9001	14060 S 9	LT	9760
2 22	5 36 58.8628	1	10 51 42.743	48 41 11.12	4	9012	12892 S 3	LT	9748
2 22	5 37 6.8695	1	4 58 58.054	49 20 18.54	4	9001	14097 S 4	LT	9741
2 22	5 37 14.8627	1	10 54 15.435	49 34 18.35	4	9012	12892 S 5	LT	9750
2 22	5 37 14.8698	1	4 56 48.880	49 50 46.54	4	9001	14097 S 5	LT	9742
2 22	5 37 22.8627	1	10 55 34.413	50 0 38.37	4	9012	12892 S 6	LT	9751
2 22	5 37 22.8698	1	4 54 37.956	50 20 53.90	4	9001	14097 S 6	LT	9743
2 22	5 37 30.8626	1	10 56 54.752	50 26 44.15	4	9012	12892 S 7	LT	9752
2 22	5 37 30.8698	1	4 52 23.961	50 50 39.81	4	9001	14097 S 7	LT	9744
2 22	5 37 38.8623	1	10 58 17.204	50 52 49.51	4	9012	12892 S 8	LT	9753
2 22	5 37 38.8698	1	4 50 9.351	51 20 0.49	4	9001	14097 S 8	LT	9745
2 22	5 37 46.8626	1	10 59 40.808	51 18 36.56	4	9012	12892 S 9	LT	9754
2 22	5 37 46.8699	1	4 47 49.550	51 49 2.20	4	9001	14097 S 9	LT	9746
2 22	5 37 54.8697	1	4 45 28.744	52 17 39.45	4	9001	14097 S10	LT	9747
2 28	16 22 2.8701	1	9 15 25.729	- 1 39 1.55	4	9008	16358 S 3	DM	9767
2 28	16 22 10.8702	1	9 15 21.320	- 1 4 38.94	4	9008	16358 S 4	DM	9768
2 28	16 22 10.8833	1	7 3 15.790	- 0 55 12.70	4	9006	11149 S 2	PG	1264
2 28	16 22 18.8837	1	7 2 39.199	- 0 15 10.04	4	9006	11149 S 3	PG	1265
2 28	16 22 26.8704	1	9 15 13.093	0 4 35.56	4	9008	16358 S 6	DM	9769
2 28	16 22 26.8840	1	7 2 1.939	0 24 58.79	4	9006	11149 S 4	PG	1266
2 28	16 22 34.8703	1	9 15 9.273	0 39 28.06	4	9008	16358 S 7	DM	9770
2 28	16 22 34.8842	1	7 1 24.482	1 5 24.26	4	9006	11149 S 5	SJ	1267
2 28	16 22 42.8842	1	7 0 46.642	1 45 55.16	4	9006	11149 S 6	SJ	1501
2 28	16 22 50.8706	1	9 15 2.736	1 49 51.11	4	9008	16358 S 9	DM	9771
2 28	16 22 58.8710	1	9 14 59.927	2 25 30.11	4	9008	16358 S10	DM	9772
2 28	16 28 58.8785	1	9 18 19.247	31 59 34.03	4	9008	16359 S 2	DM	9773
2 28	16 28 58.8796	1	6 20 4.300	34 56 27.62	4	9006	11151 S 3	TA	1268
2 28	16 29 6.8785	1	9 18 33.455	32 41 15.53	4	9008	16359 S 3	DM	9774
2 28	16 29 6.8800	1	6 18 51.635	35 37 30.74	4	9006	11151 S 4	TA	1269
2 28	16 29 14.8787	1	9 18 48.200	33 22 59.72	4	9008	16359 S 4	DM	416
2 28	16 29 14.8798	1	6 17 37.341	36 18 22.30	4	9006	11151 S 5	TA	1270
2 28	16 29 22.8789	1	9 19 3.829	34 4 51.58	4	9008	16359 S 5	DM	9775
2 28	16 29 22.8800	1	6 16 21.577	36 59 0.81	4	9006	11151 S 6	TA	1271
2 28	16 29 30.8788	1	9 19 19.846	34 46 35.21	4	9008	16359 S 6	DM	9776

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964	2 28	16 29 30.8803	6 15 4.916	37 39 27.58	9006	11151 S 7	IA	1272
2 28	16 29 38.8792	1	9 19 36.689	35 28 17.74	9008	16359 S 7	DM	9777
3 1	1 20 34.8595	1	8 19 32.351	16 26 59.48	9011	13220 S 4	LT	724
3 1	1 20 34.8712	1	8 54 1.616	-42 12 32.84	9009	10517 S 4	LT	806
3 1	1 20 42.8595	1	8 19 2.515	17 0 10.83	9011	13220 S 5	LT	725
3 1	1 20 42.8712	1	8 53 20.379	-41 44 4.42	9009	10517 S 5	LT	718
3 1	1 20 50.8591	1	8 18 33.124	17 33 0.12	9011	13220 S 6	LT	726
3 1	1 20 50.8712	1	8 52 39.579	-41 15 19.72	9009	10517 S 6	LT	719
3 1	1 20 58.8595	1	8 18 3.441	18 5 43.62	9011	13220 S 7	LT	727
3 1	1 20 58.8711	1	8 51 58.721	-40 46 18.76	9009	10517 S 7	LT	720
3 1	1 21 6.8590	1	8 17 34.319	18 38 7.02	9011	13220 S 8	LT	728
3 1	1 21 6.8711	1	8 51 18.707	-40 17 1.07	9009	10517 S 8	LT	721
3 1	1 21 14.8592	1	8 17 5.237	19 10 12.47	9011	13220 S 9	LT	729
3 1	1 21 14.8710	1	8 50 38.853	-39 47 39.52	9009	10517 S 9	LT	722
3 1	1 21 22.8592	1	8 16 36.488	19 42 8.85	9011	13220 S 10	LT	730
3 1	1 21 22.8712	1	8 49 59.401	-39 17 50.93	9009	10517 S 10	LT	723
3 1	1 27 38.8640	1	8 37 30.416	30 38 29.42	9007	12422 S 3	VD	8395
3 1	1 27 38.8723	1	8 23 46.091	-10 54 1.21	9009	10518 S 3	VD	8402
3 1	1 27 46.8634	1	8 37 3.204	31 11 51.38	9007	12422 S 4	VD	8396
3 1	1 27 46.8724	1	8 23 16.371	-10 11 15.57	9009	10518 S 4	VD	8403
3 1	1 27 54.8637	1	8 36 36.683	31 44 45.74	9007	12422 S 5	VD	8397
3 1	1 27 54.8721	1	8 22 46.749	-9 28 10.76	9009	10518 S 5	VD	8404
3 1	1 28 2.8637	1	8 36 9.667	32 17 46.26	9007	12422 S 6	VD	8398
3 1	1 28 2.8724	1	8 22 16.651	-8 44 58.95	9009	10518 S 6	VD	8405
3 1	1 28 10.8636	1	8 35 42.959	32 50 17.53	9007	12422 S 7	VD	8399
3 1	1 28 10.8725	1	8 21 47.375	-8 1 29.77	9009	10518 S 7	VD	8406
3 1	1 28 18.8634	1	8 35 16.327	33 22 44.25	9007	12422 S 8	VD	8400
3 1	1 28 18.8725	1	8 21 17.738	-7 17 46.33	9009	10518 S 8	VD	8407
3 1	1 28 26.8632	1	8 34 49.781	33 54 51.86	9007	12422 S 9	VD	8401
3 1	1 28 26.8725	1	8 20 48.334	-6 33 53.85	9009	10518 S 9	VD	8408
3 1	18 20 26.8817	1	4 30 20.704	32 11 56.49	9006	11188 S 4	SD	8535
3 1	18 20 34.8815	1	4 29 8.454	32 34 32.33	9006	11188 S 5	SD	8536
3 1	18 20 34.8922	1	5 32 52.376	49 37 21.25	9008	16378 S 5	WS	9000
3 1	18 20 42.8818	1	4 27 55.597	32 57 2.10	9006	11188 S 6	SD	8537
3 1	18 20 42.8923	1	5 30 54.228	50 10 28.91	9008	16378 S 6	WS	8542
3 1	18 20 50.8817	1	4 26 41.907	33 19 23.20	9006	11188 S 7	SD	8538
3 1	18 20 50.8946	1	5 28 53.888	50 43 18.68	9008	16378 S 7	WS	8543
3 1	18 20 58.8816	1	4 25 27.419	33 41 35.59	9006	11188 S 8	SD	8539
3 1	18 20 58.8942	1	5 26 51.263	51 15 46.90	9008	16378 S 8	WS	8544
3 1	18 21 6.8817	1	4 24 12.079	34 3 35.68	9006	11188 S 9	SD	8540
3 1	18 21 6.8952	1	5 24 46.163	51 47 50.02	9008	16378 S 9	WS	8545
3 1	18 21 14.8817	1	4 22 56.121	34 25 26.98	9006	11188 S 10	SD	8999
3 1	18 21 14.8932	1	5 22 38.361	52 19 33.25	9008	16378 S 10	PK	8546
3 1	18 21 22.8948	1	5 20 28.244	52 50 55.92	9008	16378 S 11	PK	8547
3 2	19 14 26.8854	1	10 1 13.287	30 56 36.19	9004	12207 S 4	JW	1551

Satellite 1961 Alpha Delta 1

2 March - 3 March 1964

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964	3 2	15 14 26.8895	4 45 25.691	38 47 23.54	9008	16399 S 2	BM	970
	3 2	15 14 34.8956	10 1 53.313	31 30 42.58	9004	12207 S 5	JW	1552
	3 2	15 14 34.8997	4 43 53.366	39 14 15.71	9008	16399 S 3	BM	971
	3 2	15 14 42.8855	10 2 33.833	32 4 49.14	9004	12207 S 6	JW	965
	3 2	15 14 42.8899	4 42 19.338	39 40 58.96	9008	16399 S 4	BM	1553
	3 2	15 14 50.8853	10 3 15.989	32 38 59.41	9004	12207 S 7	JW	966
	3 2	15 14 50.8901	4 40 44.191	40 7 27.18	9008	16399 S 5	BM	972
	3 2	15 14 58.8855	10 3 58.573	33 13 12.56	9004	12207 S 8	JW	967
	3 2	15 14 58.8899	4 39 8.245	40 33 40.51	9008	16399 S 6	BM	973
	3 2	15 15 6.8857	10 4 42.584	33 47 27.08	9004	12207 S 9	JW	968
	3 2	19 15 6.8901	4 37 30.657	40 59 38.93	9008	16399 S 7	PG	1502
	3 2	19 15 14.8857	10 5 27.467	34 21 42.06	9004	12207 S 10	BM	969
	3 2	19 15 14.8911	4 35 51.700	41 25 22.29	9008	16399 S 8	BM	975
	3 3	2 13 38.8711	5 55 47.779	-17 50 35.95	9009	10552 S 2	KA	8930
	3 3	2 13 46.8640	6 57 8.784	-33 52 22.72	9010	12523 S 1	KA	8924
	3 3	2 13 54.8640	6 56 45.560	-33 24 51.94	9010	12523 S 2	KA	8925
	3 3	2 13 54.8647	6 8 16.240	19 24 16.87	9007	12437 S 3	WC	8953
	3 3	2 13 54.8714	5 55 13.195	-16 43 11.84	9009	10552 S 4	KA	8931
	3 3	2 14 2.8640	6 56 22.094	-32 57 10.20	9010	12523 S 3	KA	8926
	3 3	2 14 2.8643	6 7 56.464	19 55 22.13	9007	12437 S 4	WC	8954
	3 3	2 14 2.8716	5 54 55.536	-16 9 21.37	9009	10552 S 5	KA	8932
	3 3	2 14 10.8642	6 55 58.400	-32 29 10.92	9010	12523 S 4	KA	8927
	3 3	2 14 10.8643	6 7 36.902	20 26 5.94	9007	12437 S 5	WC	9343
	3 3	2 14 10.8714	5 54 37.541	-15 35 28.94	9009	10552 S 6	KA	8933
	3 3	2 14 18.8641	6 55 34.746	-32 1 8.51	9010	12523 S 5	KA	8928
	3 3	2 14 18.8643	6 7 16.994	20 56 37.61	9007	12437 S 6	WC	8955
	3 3	2 14 18.8714	5 54 19.189	-15 1 27.03	9009	10552 S 7	KA	8934
	3 3	2 14 26.8638	6 6 56.536	21 26 58.07	9007	12437 S 7	WC	8956
	3 3	2 14 26.8640	6 55 10.595	-31 32 55.11	9010	12523 S 6	KA	8929
	3 3	2 14 26.8716	5 54 0.606	-14 27 24.64	9009	10552 S 8	KA	8935
	3 3	3 14 34.8641	6 6 36.018	21 57 6.88	9007	12437 S 8	WC	8957
	3 3	17 16 50.8852	7 53 20.283	22 16 43.02	9008	16421 S 1	BN	8426
	3 3	17 16 58.8827	5 36 10.180	17 56 1.39	9006	11242 S 1	YK	8790
	3 3	17 16 58.8856	7 52 48.931	23 2 58.62	9008	16421 S 2	YK	8427
	3 3	17 17 6.8828	5 35 14.649	18 29 20.67	9006	11242 S 2	YK	8791
	3 3	17 17 6.8857	7 52 17.525	23 49 14.60	9008	16421 S 3	YK	8428
	3 3	17 17 14.8827	5 34 18.493	19 2 36.41	9006	11242 S 3	YK	8792
	3 3	17 17 14.8860	7 51 45.596	24 35 38.73	9008	16421 S 4	YK	8429
	3 3	17 17 22.8829	5 33 21.683	19 35 48.30	9006	11242 S 4	YK	8793
	3 3	17 17 22.8861	7 51 13.288	25 22 4.46	9008	16421 S 5	YK	8430
	3 3	17 17 30.8829	5 32 24.101	20 8 51.85	9006	11242 S 5	YK	8794
	3 3	17 17 30.8863	7 50 40.403	26 8 31.49	9008	16421 S 6	YK	8431
	3 3	17 17 38.8826	5 31 25.909	20 41 54.35	9006	11242 S 6	YK	8795
	3 3	17 17 38.8866	7 50 7.406	26 54 56.50	9008	16421 S 7	YK	8432
	3 3	17 17 46.8828	5 30 27.203	21 14 49.40	9006	11242 S 7	YK	8796

DATE Y M D	TIME (A-I) F M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964	3 3 3	20 3 38.8891	9 9 31.984	13 34 11.77	4	9004	12219 S 3	RD	8869
	3 3 3	20 3 38.8921	5 8 10.987	16 0 8.15	4	9008	16426 S 3	DM	8494
	3 3 3	20 3 38.8890	9 9 36.212	14 12 8.84	4	9004	12219 S 4	RD	8870
	3 3 3	20 3 46.8923	5 7 24.269	16 25 58.31	4	9008	16426 S 4	DM	8495
	3 3 3	20 3 54.8887	9 9 40.842	14 50 18.97	4	9004	12219 S 5	RD	8871
	3 3 3	20 3 54.8924	5 6 36.658	16 51 42.49	4	9008	16426 S 5	DM	8496
	3 3 3	20 4 2.8889	9 9 45.627	15 28 38.89	4	9004	12219 S 6	SY	8872
	3 3 3	20 4 2.8927	5 5 48.945	17 17 31.25	4	9008	16426 S 6	DM	8497
	3 3 3	20 4 10.8889	9 9 50.858	16 7 10.82	4	9004	12219 S 7	SY	8873
	3 3 3	20 4 10.8925	5 5 0.607	17 43 7.39	4	9008	16426 S 7	DM	8498
	3 4	18 17 14.8901	4 28 0.675	32 59 20.98	4	9006	11263 S 5	YK	8433
	3 4	18 17 22.8901	4 26 47.606	33 21 3.36	4	9006	11263 S 6	YK	8434
	3 4	18 17 30.8902	4 25 33.714	33 42 34.18	4	9006	11263 S 7	YK	8435
	3 4	18 17 38.8902	4 24 19.420	34 3 55.73	4	9006	11263 S 8	YK	8436
	3 4	18 17 38.8980	5 15 44.950	51 45 44.11	4	9008	16450 S 1	YK	8783
	3 4	18 17 46.8903	4 23 4.378	34 25 8.17	4	9006	11263 S 9	YK	8437
	3 4	18 17 54.8903	4 21 48.159	34 46 16.22	4	9006	11263 S 10	YK	8438
	3 4	18 17 54.8986	5 11 21.335	52 45 47.68	4	9008	16450 S 2	YK	8784
	3 4	18 18 2.8903	4 20 31.308	35 7 11.43	4	9006	11263 S 11	YK	9002
	3 4	18 18 2.8990	5 9 5.540	53 15 21.64	4	9008	16450 S 3	YK	8785
	3 4	18 18 10.8990	5 6 47.221	53 44 29.29	4	9008	16450 S 4	YK	8786
	3 4	18 18 18.8990	5 4 26.188	54 13 12.17	4	9008	16450 S 5	YK	8787
	3 4	18 18 26.8994	5 2 2.894	54 41 32.54	4	9008	16450 S 6	YK	8788
	3 4	18 18 34.8995	4 59 36.270	55 9 27.97	4	9008	16450 S 7	YK	8789
	3 4	23 40 10.8544	10 10 39.876	25 18 27.08	4	9009	10568 S 5	LD	8985
	3 4	23 40 10.9267	5 45 28.445	- 1 43 54.50	4	9004	12241 S 5	LD	7763
	3 4	23 40 18.8543	10 10 52.467	25 51 34.73	4	9009	10568 S 6	LD	7777
	3 4	23 40 18.9265	5 44 54.502	- 1 17 13.57	4	9004	12241 S 6	LD	7764
	3 4	23 40 26.8539	10 11 5.439	26 24 37.03	4	9009	10568 S 7	LD	7778
	3 4	23 40 26.9271	5 44 20.203	- 0 50 28.77	4	9004	12241 S 7	LD	7765
	3 4	23 40 34.8543	10 11 19.348	26 57 41.09	4	9009	10568 S 8	LD	7779
	3 4	23 40 34.9267	5 43 45.660	- 0 23 43.20	4	9004	12241 S 8	LD	7766
	3 4	23 40 42.8548	10 11 33.417	27 30 42.96	4	9009	10568 S 9	LD	7780
	3 4	23 40 42.9266	5 43 10.554	0 3 4.44	4	9004	12241 S 9	LD	7767
	3 4	23 40 50.8542	10 11 48.128	28 3 41.09	4	9009	10568 S 10	LD	7781
	3 4	23 40 50.9269	5 42 35.148	0 29 56.85	4	9004	12241 S 10	LD	7768
	3 4	23 40 58.8544	10 12 3.260	28 36 35.83	4	9009	10568 S 11	PK	7782
	3 4	23 40 58.9269	5 41 59.390	0 56 49.34	4	9004	12241 S 11	LD	7769
	3 5	2 32 15.5042	9 34 51.162	30 12 11.20	4	9001	14222 S 7	LT	714
	3 5	2 32 18.8871	5 5 32.430	54 32 55.33	4	9009	10575 S 8	LT	205
	3 5	2 32 23.5036	9 35 13.106	30 51 45.83	4	9001	14222 S 8	LT	715
	3 5	2 32 26.8873	5 3 44.659	54 56 15.73	4	9009	10575 S 9	LT	206
	3 5	2 32 31.5071	9 35 35.504	31 31 24.86	4	9001	14222 S 9	LT	716
	3 5	2 32 34.8874	5 1 54.677	55 19 24.45	4	9009	10575 S 10	LT	207
	3 5	2 32 39.5013	9 35 58.969	32 11 6.62	4	9001	14222 S 10	LT	717

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 3 5	2 32 42.8872	1	5 0 3.564	55 42 10.04	9009	10575 S11	LT	208
3 6	3 18 40.5363	1	8 35 45.730	- 4 56 43.95	9001	14249 S 2	BN	9262
3 6	3 18 48.5384	1	8 35 29.674	- 4 20 25.65	9001	14249 S 3	BN	9263
3 6	3 18 50.8889	1	5 23 39.752	19 18 58.69	9009	10593 S 5	JW	8941
3 6	3 18 56.5394	1	8 35 13.288	- 3 43 52.70	9001	14249 S 4	BN	9264
3 6	3 18 58.8892	1	5 22 59.095	19 49 18.49	9009	10593 S 6	JW	8942
3 6	3 19 4.5412	1	8 34 57.452	- 3 7 4.41	9001	14249 S 5	BN	9265
3 6	3 19 6.8891	1	5 22 17.859	20 19 32.90	9009	10593 S 7	JW	8943
3 6	3 19 12.5439	1	8 34 41.245	- 2 30 0.88	9001	14249 S 6	BN	9266
3 6	3 19 14.8891	1	5 21 36.188	20 49 37.77	9009	10593 S 8	JW	8944
3 6	3 19 20.5460	1	8 34 25.311	- 1 52 41.64	9001	14249 S 7	BN	9267
3 6	3 19 22.8891	1	5 20 53.988	21 19 31.45	9009	10593 S 9	JW	8945
3 6	3 19 28.5477	1	8 34 9.395	- 1 15 4.75	9001	14249 S 8	BN	9608
3 6	3 19 30.8890	1	5 20 11.420	21 49 18.91	9009	10593 S10	JW	8946
3 6	3 19 38.8891	1	5 19 28.298	22 18 58.56	9009	10593 S11	SY	8947
3 6	17 17 30.8927	1	4 59 56.167	33 56 26.48	9006	11304 S 3	YK	583
3 6	17 17 30.8977	1	7 21 59.918	47 17 13.76	9008	16487 S 1	YK	172
3 6	17 17 38.8927	1	4 58 35.521	34 24 45.50	9006	11304 S 4	YK	584
3 6	17 17 38.8981	1	7 20 58.167	48 0 18.35	9008	16487 S 2	YK	173
3 6	17 17 46.8583	1	7 19 54.811	48 43 2.00	9008	16487 S 3	YK	414
3 6	17 17 46.8929	1	4 57 14.042	34 52 53.16	9006	11304 S 5	YK	585
3 6	17 17 54.8931	1	4 55 51.305	35 22 51.68	9006	11304 S 6	YK	586
3 6	17 17 54.8986	1	7 18 50.055	49 25 34.76	9008	16487 S 4	YK	175
3 6	17 18 2.8933	1	4 54 27.776	35 48 34.62	9006	11304 S 7	YK	587
3 6	17 18 2.8987	1	7 17 43.725	50 7 54.85	9008	16487 S 5	YK	1546
3 6	17 18 10.8927	1	4 53 3.078	36 16 9.80	9006	11304 S 8	YK	588
3 6	17 18 10.8990	1	7 16 35.831	50 49 55.60	9008	16487 S 6	YK	176
3 6	17 18 18.8930	1	4 51 37.374	36 43 26.47	9006	11304 S 9	YK	801
3 6	17 18 18.8992	1	7 15 25.893	51 31 45.90	9008	16487 S 7	YK	177
3 8	2 6 18.8803	1	7 7 2.962	-45 30 4.81	9009	10618 S 3	BM	8936
3 8	2 6 18.8944	1	7 26 10.928	- 8 57 35.87	9007	12456 S 1	SY	8948
3 8	2 6 26.8804	1	7 6 41.570	-45 0 26.41	9009	10618 S 4	BM	8937
3 8	2 6 26.8957	1	7 25 45.407	- 8 10 55.83	9007	12456 S 2	SY	8949
3 8	2 6 34.8803	1	7 6 20.110	-44 30 34.38	9009	10618 S 5	BM	8938
3 8	2 6 34.8970	1	7 25 19.794	- 7 24 35.09	9007	12456 S 3	SY	8950
3 8	2 6 42.8803	1	7 5 58.668	-44 0 31.64	9009	10618 S 6	BM	8939
3 8	2 6 42.8977	1	7 24 53.966	- 6 38 16.75	9007	12456 S 4	SY	8951
3 8	2 6 50.8799	1	7 5 37.061	-43 30 15.49	9009	10618 S 7	BM	9342
3 8	2 6 50.8986	1	7 24 28.471	- 5 52 8.51	9007	12456 S 5	SY	8952
3 8	16 11 22.8888	1	9 6 43.900	0 45 26.31	9008	16509 S 2	GL	1550
3 8	16 11 30.8890	1	9 6 35.928	1 22 22.68	9008	16509 S 3	GL	1197
3 8	16 11 38.8888	1	9 6 28.048	1 59 36.74	9008	16509 S 4	SJ	1198
3 8	16 11 46.8827	1	6 46 21.805	3 3 47.23	9006	11342 S 4	BA	1309
3 8	16 11 46.8891	1	9 6 20.307	2 37 4.07	9008	16509 S 5	SJ	1199
3 8	16 11 54.8829	1	6 45 40.599	3 43 4.67	9006	11342 S 5	BA	1310

DATE			TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS.NO.
Y	M	D	H	M	S	MS	H	M	S	D	M	S				
1964	3	8	16	11	54.8891	1	9	6	12.721	3	14	41.02	4	9008	16509 S 6 BA	1200
	3	8	16	12	2.8833	1	6	44	59.007	4	22	25.90	4	9006	11342 S 6 BA	1311
	3	8	16	12	2.8892	1	9	6	5.508	3	52	35.61	4	9008	16509 S 7 BA	1201
	3	8	16	12	10.8831	1	6	44	17.043	5	1	56.68	4	9006	11342 S 7 BA	1312
	3	8	16	12	18.8832	1	6	43	34.576	5	41	31.68	4	9006	11342 S 8 BA	1313
3	8	16	12	26.8834	1	6	42	51.637	6	21	12.51	4	9006	11342 S 9 BA	1314	
3	8	16	12	34.8833	1	6	42	7.912	7	1	1.56	4	9006	11342 S 10 BA	1315	
3	9	17	13	23.0922	1	5	3	54.532	31	44	9.80	4	9006	11369 S 1 YK	597	
3	9	17	13	30.8991	1	7	15	7.423	45	35	3.49	4	9008	16532 S 1 YK	178	
3	9	17	13	31.0923	1	5	2	38.929	32	12	23.51	4	9006	11369 S 2 YK	598	
3	9	17	13	38.8996	1	7	14	2.000	46	17	54.20	4	9008	16532 S 2 YK	179	
3	9	17	13	39.0920	1	5	1	22.396	32	40	27.90	4	9006	11369 S 3 YK	599	
3	9	17	13	47.0925	1	5	0	4.834	33	8	22.10	4	9006	11369 S 4 YK	600	
3	9	17	13	46.8997	1	7	12	54.589	47	0	33.68	4	9008	16532 S 3 YK	180	
3	9	17	13	54.9000	1	7	11	46.025	47	42	55.85	4	9008	16532 S 4 YK	415	
3	9	17	13	55.0923	1	4	58	46.528	33	36	4.33	4	9006	11369 S 5 YK	601	
3	9	17	14	2.9003	1	7	10	35.826	48	25	9.16	4	9008	16532 S 5 YK	181	
3	9	17	14	10.9004	1	7	9	23.900	49	7	5.93	4	9008	16532 S 6 YK	182	
3	9	17	14	18.9010	1	7	8	10.235	49	48	44.91	4	9008	16532 S 7 YK	183	
3	10	18	2	42.8897	1	5	20	10.012	10	46	20.42	4	9006	11391 S 2 YK	184	
3	10	18	2	50.8900	1	5	19	30.134	11	11	37.91	4	9006	11391 S 3 YK	185	
3	10	18	2	58.8904	1	5	18	50.281	11	36	56.63	4	9006	11391 S 4 YK	186	
3	10	18	3	6.8903	1	5	18	9.856	12	2	6.84	4	9006	11391 S 5 YK	187	
3	10	18	3	14.8906	1	5	17	28.971	12	27	18.55	4	9006	11391 S 6 YK	188	
3	10	18	3	22.8908	1	5	16	47.717	12	52	29.37	4	9006	11391 S 7 YK	189	
3	10	18	3	30.8910	1	5	16	5.900	13	17	36.79	4	9006	11391 S 8 YK	190	
3	10	18	4	2.8996	1	6	15	21.766	22	36	32.02	4	9008	16555 S 1 VP	745	
3	10	18	4	10.8995	1	6	14	21.042	23	15	33.70	4	9008	16555 S 2 VP	746	
3	10	18	4	18.8999	1	6	13	19.773	23	54	33.53	4	9008	16555 S 3 VP	747	
3	10	18	4	26.9002	1	6	12	17.556	24	33	24.54	4	9008	16555 S 4 VP	748	
3	10	18	4	34.9006	1	6	11	14.388	25	12	10.88	4	9008	16555 S 5 VP	749	
3	10	18	4	42.9006	1	6	10	10.313	25	50	57.01	4	9008	16555 S 6 VP	750	
3	14	16	0	10.8816	1	9	5	56.354	-15	19	58.24	4	9008	16576 S 1 YK	166	
3	14	16	0	10.8864	1	6	57	18.444	-15	26	49.88	4	9006	11475 S 1 VP	731	
3	14	16	0	18.8818	1	9	5	41.336	-14	48	38.48	4	9008	16576 S 2 YK	167	
3	14	16	0	18.8866	1	6	56	48.023	-14	53	39.15	4	9006	11475 S 2 VP	732	
3	14	16	0	26.8817	1	9	5	26.393	-14	17	9.19	4	9008	16576 S 3 YK	168	
3	14	16	0	26.8865	1	6	56	17.031	-14	20	21.01	4	9006	11475 S 3 VP	733	
3	14	16	0	34.8819	1	9	5	11.344	-13	45	30.21	4	9008	16576 S 4 YK	169	
3	14	16	0	34.8867	1	6	55	45.975	-13	46	49.91	4	9006	11475 S 4 VP	734	
3	14	16	0	42.8821	1	9	4	56.770	-13	13	32.47	4	9008	16576 S 5 YK	170	
3	14	16	0	42.8868	1	6	55	14.624	-13	13	10.24	4	9006	11475 S 5 VP	735	
3	14	16	0	50.8824	1	9	4	42.364	-12	41	19.56	4	9008	16576 S 6 YK	171	
3	14	16	0	50.8867	1	6	54	42.986	-12	39	18.37	4	9006	11475 S 6 VP	736	
3	14	16	0	58.8867	1	6	54	10.883	-12	5	15.42	4	9006	11475 S 7 VP	737	

DATE	TIME (A-I)	RMS	R.A. (1950.0)	DECL. (1950.0)	RMS	STATION	FRAME NO.	MS	OBS. NO.
Y M D	H M S	MS	H M S	D M S	S				
1964	3 14	16	2 34.8821	1	1	9008	16577 S 1	YK	153
3 14	16	2 34.8865	6 47 23.269	- 5 27 48.25	4	9006	11476 S 2	YK	160
3 14	16	2 42.8824	9 1 31.862	- 4 45 10.53	4	9006	11476 S 3	YK	161
3 14	16	2 42.8865	6 46 46.923	- 4 27 26.09	4	9008	16577 S 3	YK	155
3 14	16	2 50.3825	9 1 19.020	- 4 9 17.03	4	9006	11476 S 4	YK	162
3 14	16	2 50.8870	6 46 10.254	- 3 51 5.81	4	9008	16577 S 4	YK	156
3 14	16	2 58.8827	9 1 6.589	- 3 33 12.36	4	9006	11476 S 5	YK	163
3 14	16	2 58.8875	6 45 33.481	- 3 14 37.95	4	9008	16577 S 5	YK	157
3 14	16	3 6.8828	9 0 54.094	- 2 56 47.48	4	9006	11476 S 6	YK	164
3 14	16	3 6.8882	6 44 55.915	- 2 38 0.63	4	9008	16577 S 6	YK	158
3 14	16	3 14.8832	9 0 41.758	- 2 20 11.98	4	9006	11476 S 7	YK	165
3 14	16	3 14.8880	6 44 18.508	- 2 1 16.40	4	9008	16577 S 7	YK	159
3 14	16	3 22.8831	9 0 29.482	- 1 43 24.01	4	9006	11476 S 8	YK	409
3 14	16	3 22.8884	6 43 40.413	- 1 24 21.81	4	9008	11478 S 2	VP	738
3 14	16	8 2.8942	6 16 8.511	20 56 23.76	4	9006	11478 S 3	VP	739
3 14	16	8 10.8945	6 15 9.731	21 34 53.41	4	9008	16578 S 1	PK	1021
3 14	16	8 18.8899	8 54 20.023	23 33 52.88	4	9006	11478 S 2	VP	740
3 14	16	8 18.8946	6 14 10.264	22 13 19.16	4	9008	16578 S 2	PK	1022
3 14	16	8 26.8900	8 54 12.292	24 17 58.21	4	9006	11478 S 5	VP	741
3 14	16	8 26.8947	6 13 9.972	22 51 38.05	4	9008	16578 S 3	YK	1023
3 14	16	8 34.8903	8 54 5.032	25 2 18.68	4	9006	11478 S 6	VP	742
3 14	16	8 34.8948	6 12 8.808	23 29 53.90	4	9008	16578 S 4	YK	1024
3 14	16	8 42.8908	8 53 57.231	25 46 38.52	4	9006	11478 S 7	VP	743
3 14	16	8 42.8949	6 11 6.771	24 8 3.14	4	9008	16578 S 5	YK	1025
3 14	16	8 50.8910	8 53 49.911	26 31 2.25	4	9006	11478 S 8	VP	744
3 14	16	8 50.8950	6 10 3.947	24 46 8.40	4	9008	16578 S 6	VP	1026
3 14	16	8 58.8914	8 53 42.819	27 15 34.60	4	9009	10720 S 5	PK	7783
3 16	22 30	2.9018	10 15 54.553	48 29 16.08	4	9009	10720 S 6	PK	7784
3 16	22 30	10.9015	10 16 28.350	49 1 19.93	4	9004	12317 S 2	LD	7770
3 16	22 30	10.9211	5 25 41.575	13 44 35.65	4	9009	10720 S 7	PK	8986
3 16	22 30	18.9017	10 17 3.105	49 33 16.13	4	9004	12317 S 4	LD	7772
3 16	22 30	26.9016	10 17 39.001	50 5 1.56	4	9009	10720 S 11	PK	7788
3 16	22 30	26.9215	5 24 7.721	14 34 8.23	4	9004	12317 S 5	LD	7773
3 16	22 30	34.9018	10 18 15.704	50 36 38.49	4	9009	12317 S 6	LD	7775
3 16	22 30	42.9016	10 18 53.960	51 8 4.47	4	9009	12317 S 7	LD	7775
3 16	22 30	42.9216	5 22 31.451	15 23 27.87	4	9004	10721 S 4	MN	8529
3 16	22 30	50.9018	10 19 33.327	51 39 16.14	4	9009	12318 S 2	VD	8409
3 16	22 30	58.9212	5 20 53.418	16 12 41.42	4	9004	10721 S 5	MN	8530
3 16	22 31	14.9207	5 19 13.106	17 1 49.83	4	9004	10721 S 6	MN	8531
3 16	22 31	30.9203	5 17 30.785	17 50 42.62	4	9004	12318 S 3	VD	8410
3 16	22 34	42.9046	10 50 37.339	65 24 52.42	4	9009			
3 16	22 34	42.9169	4 53 53.725	27 18 15.03	4	9004			
3 16	22 34	50.9046	10 52 17.511	65 50 19.73	4	9009			
3 16	22 34	58.9044	10 54 0.690	66 15 27.27	4	9009			
3 16	22 34	58.9171	4 51 38.717	28 3 23.68	4	9004			

Satellite 1961 Alpha Delta 1

16 March - 24 March 1964

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A.-(1950.0) H M S	DECL.-(1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 3 16	23 35 6.9046	1	10 55 47.132	66 40 23.95	4	9009	10721 S 7	C8	8532
3 16	23 35 14.9047	1	10 57 37.246	67 5 3.50	4	9009	10721 S 8	C8	8533
3 16	23 35 14.9170	1	4 49 20.465	28 48 12.76	4	9004	12318 S 4	VD	8411
3 16	23 35 22.9047	1	10 59 31.795	67 29 28.74	4	9009	10721 S 9	C8	8998
3 16	23 35 30.9169	1	4 46 59.192	29 32 26.92	4	9004	12318 S 5	VD	8412
3 16	23 35 46.9167	1	4 44 35.320	30 16 22.15	4	9004	12318 S 6	VD	8413
3 16	23 36 2.9161	1	4 42 8.205	30 59 43.24	4	9004	12318 S 7	VD	8414
3 19	0 57 14.8849	1	7 56 14.243	12 44 19.36	4	9011	13316 S 4	LT	198
3 19	0 57 14.8958	1	8 16 59.945	-46 37 43.42	4	9009	10744 S 3	LT	191
3 19	0 57 22.8849	1	7 55 49.780	13 18 39.16	4	9011	13316 S 5	LT	199
3 19	0 57 22.8957	1	8 16 23.523	-46 9 8.02	4	9009	10744 S 4	LT	192
3 19	0 57 30.8849	1	7 55 25.478	13 52 40.57	4	9011	13316 S 6	LT	200
3 19	0 57 30.8959	1	8 15 47.130	-45 40 20.36	4	9009	10744 S 5	LT	193
3 19	0 57 38.8847	1	7 55 1.309	14 26 28.15	4	9011	13316 S 7	LT	201
3 19	0 57 38.8958	1	8 15 11.413	-45 11 18.84	4	9009	10744 S 6	LT	194
3 19	0 57 46.8846	1	7 54 37.369	14 59 57.20	4	9011	13316 S 8	LT	202
3 19	0 57 46.8959	1	8 14 35.667	-44 42 3.42	4	9009	10744 S 7	LT	195
3 19	0 57 54.8847	1	7 54 13.296	15 33 10.04	4	9011	13316 S 9	LT	203
3 19	0 57 54.8958	1	8 14 0.125	-44 12 36.88	4	9009	10744 S 8	LT	196
3 19	0 58 2.8845	1	7 53 49.628	16 6 5.27	4	9011	13316 S 10	LT	204
3 19	0 58 2.8959	1	8 13 25.157	-43 42 55.02	4	9009	10744 S 9	LT	197
3 21	0 1 46.8911	1	8 51 51.079	21 43 18.68	4	9011	13334 S 2	DM	8503
3 21	0 1 46.8994	1	9 28 49.780	-34 50 50.79	4	9009	10757 S 6	DM	8499
3 21	0 1 54.8913	1	8 51 22.739	22 13 19.68	4	9011	13334 S 3	DM	8504
3 21	0 1 54.8994	1	9 28 13.760	-34 21 1.25	4	9009	10757 S 7	DM	8500
3 21	0 2 2.8911	1	8 50 54.442	22 43 8.48	4	9011	13334 S 4	DM	8505
3 21	0 2 2.8995	1	9 27 38.087	-33 50 58.87	4	9009	10757 S 8	DM	8501
3 21	0 2 10.8910	1	8 50 26.535	23 12 42.48	4	9011	13334 S 5	DM	8995
3 21	0 2 10.8994	1	9 27 2.767	-33 20 42.60	4	9009	10757 S 9	DM	8992
3 21	0 2 18.8912	1	8 49 58.881	23 42 3.77	4	9011	13334 S 6	DM	8507
3 21	0 2 18.8993	1	9 26 27.780	-32 50 15.33	4	9009	10757 S 10	DM	8993
3 21	0 2 26.8910	1	8 49 31.208	24 11 14.02	4	9011	13334 S 7	DM	8996
3 21	0 2 26.8995	1	9 25 53.052	-32 19 26.10	4	9009	10757 S 11	DM	8994
3 21	0 2 34.8911	1	8 49 3.923	24 40 16.13	4	9011	13334 S 8	DM	8997
3 21	0 2 34.8995	1	9 25 18.324	-31 48 27.36	4	9009	10757 S 12	DM	9360
3 24	16 45 46.8970	1	5 59 53.666	-2 52 28.81	4	9006	11652 S 2	YK	590
3 24	16 45 54.8933	1	7 34 52.224	-3 39 23.98	4	9008	16672 S 1	YK	1016
3 24	16 45 54.8970	1	5 59 22.196	-2 24 9.22	4	9006	11652 S 3	YK	591
3 24	16 46 2.8938	1	7 34 18.573	-3 0 44.26	4	9008	16672 S 2	YK	2210
3 24	16 46 2.8969	1	5 58 51.007	-1 55 52.55	4	9006	11652 S 4	YK	592
3 24	16 46 10.8938	1	7 33 44.417	-2 21 49.92	4	9008	16672 S 3	YK	1559
3 24	16 46 10.8970	1	5 58 19.026	-1 27 31.59	4	9006	11652 S 5	YK	593
3 24	16 46 18.8939	1	7 33 10.135	-1 42 40.75	4	9008	16672 S 4	YK	1017
3 24	16 46 18.8970	1	5 57 46.733	-0 59 12.05	4	9006	11652 S 6	YK	594
3 24	16 46 26.8942	1	7 32 35.601	-1 3 20.22	4	9008	16672 S 5	YK	1018

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964	3 24	16 46 26.8973	5 57 14.160	- 0 30 43.07	9006	11652 S 7	YK	595
	3 24	16 46 34.8944	7 32 C.534	- 0 23 44.82	9008	16672 S 6	YK	1560
	3 24	16 46 34.8966	5 56 41.339	- 0 2 26.69	9006	11652 S 8	YK	596
	3 24	16 46 42.8944	7 31 25.083	0 16 2.55	9008	16672 S 7	YK	1020
	3 24	16 50 34.8967	5 36 58.443	14 10 51.17	9006	11653 S 4	SJ	1202
	3 24	16 50 34.9005	7 11 11.961	20 33 9.46	9008	16673 S 2	YK	1009
	3 24	16 50 42.8968	5 36 11.949	14 38 56.02	9006	11653 S 5	SJ	1203
	3 24	16 50 42.9005	7 10 21.699	21 16 22.07	9008	16673 S 3	YK	1010
	3 24	16 50 50.8968	5 35 24.685	15 7 0.62	9006	11653 S 6	SJ	1204
	3 24	16 50 50.9010	7 9 30.621	21 59 38.67	9008	16673 S 4	YK	2208
	3 24	16 50 58.8969	5 34 36.932	15 35 1.36	9006	11653 S 7	SJ	1205
	3 24	16 50 58.9011	7 8 39.123	22 42 44.45	9008	16673 S 5	YK	1012
	3 24	16 51 6.8966	5 33 48.859	16 2 57.94	9006	11653 S 8	SJ	1206
	3 24	16 51 6.9016	7 7 46.414	23 25 54.12	9008	16673 S 6	YK	2209
	3 24	16 51 14.8968	5 33 C.154	16 30 48.62	9006	11653 S 9	VP	1207
	3 24	16 51 14.9015	7 6 53.367	24 9 2.16	9008	16673 S 7	YK	1014
	3 24	16 51 22.8964	5 32 10.683	16 58 41.54	9006	11653 S10	VP	1208
	3 24	16 51 22.9017	7 5 59.236	24 52 9.53	9008	16673 S 8	YK	1015
	3 24	16 56 10.8978	4 55 36.871	32 39 7.65	9006	11654 S 2	BA	1316
	3 24	16 56 18.8977	4 54 22.392	33 3 3.74	9006	11654 S 3	BA	1317
	3 24	16 56 26.8978	4 53 7.468	33 26 45.41	9006	11654 S 4	BA	1318
	3 24	16 56 26.9087	6 17 14.464	50 23 40.09	9008	16674 S 1	WS	1209
	3 24	16 56 34.8977	4 51 51.610	33 50 16.22	9006	11654 S 5	BA	1319
	3 24	16 56 34.9091	6 15 23.657	50 59 15.15	9008	16674 S 2	WS	1210
	3 24	16 56 42.8979	4 50 34.644	34 13 37.90	9006	11654 S 6	BA	1320
	3 24	16 56 42.9092	6 13 31.058	51 34 32.09	9008	16674 S 3	WS	1211
	3 24	16 56 50.8978	4 49 17.340	34 36 49.55	9006	11654 S 7	BA	1321
	3 24	16 56 50.9095	6 11 35.703	52 9 20.17	9008	16674 S 4	WS	1212
	3 24	16 56 58.8980	4 47 58.948	34 59 53.79	9006	11654 S 8	BA	1322
	3 24	16 56 58.9096	6 9 38.039	52 43 52.62	9008	16674 S 5	LD	1213
	3 24	16 57 6.9096	6 7 37.434	53 17 57.32	9008	16674 S 6	LD	1214
	3 26	1 42 42.8996	6 50 46.712	6 33 47.40	9011	13385 S 8	LD	7794
	3 26	1 42 42.9070	6 38 10.501	-45 51 13.69	9009	10817 S 9	LD	7789
	3 26	1 42 50.8998	6 50 40.868	7 5 41.86	9011	13385 S 9	LD	7795
	3 26	1 42 50.9068	6 38 4.778	-45 23 25.30	9009	10817 S10	LD	7790
	3 26	1 42 58.8996	6 50 35.063	7 37 24.13	9011	13385 S10	LD	7796
	3 26	1 42 58.9069	6 37 59.374	-44 55 35.89	9009	10817 S11	LD	8987
	3 26	1 43 6.8996	6 50 28.509	8 8 47.66	9011	13385 S11	LD	7797
	3 26	1 43 6.9070	6 37 52.888	-44 27 39.84	9009	10817 S12	LD	8988
	3 26	1 43 14.8991	6 50 22.043	8 39 59.69	9011	13385 S12	LD	7798
	3 26	1 43 14.9070	6 37 47.025	-43 59 32.53	9009	10817 S13	LD	7793
	3 29	15 49 30.8981	6 3 5.695	19 8 13.42	9006	11750 S 4	SJ	336
	3 29	15 49 30.9063	8 25 29.043	23 43 57.62	9008	16712 S 2	YK	8440
	3 29	15 49 38.8983	6 2 9.045	19 42 9.32	9006	11750 S 5	SJ	337
	3 29	15 49 38.9067	8 25 2.441	24 29 37.83	9008	16712 S 3	YK	8441

Satellite 1961 Alpha Delta 1										29 March - 31 March 1964									
DATE			TIME (A-I)			R.A. (1950.C)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS.NO.				
Y	M	D	H	M	S	H	M	S	D	M	S								
1964	3	29	15	49	46.8984	6	1	11.648	20	16	2.98	4	9006	11750 S 6	SJ	338			
	3	29	15	49	46.9068	8	24	35.583	25	15	17.39	4	9008	16712 S 4	YK	8442			
	3	29	15	49	54.8985	6	0	13.512	20	49	47.82	4	9006	11750 S 7	SJ	339			
	3	29	15	49	54.9071	8	24	8.437	26	1	1.53	4	9008	16712 S 5	YK	8443			
	3	29	15	50	2.8987	5	59	14.539	21	23	31.57	4	9006	11750 S 8	SJ	340			
	3	29	15	50	2.9076	8	23	41.161	26	46	52.32	4	9008	16712 S 6	YK	8444			
	3	29	15	55	14.9091	5	9	10.994	41	26	29.06	4	9006	11753 S 4	SJ	341			
	3	29	15	55	22.9092	5	7	31.641	41	53	17.97	4	9006	11753 S 5	SJ	342			
	3	29	15	55	22.9141	7	57	45.365	56	19	6.60	4	9008	16713 S 4	SJ	348			
	3	29	15	55	30.9094	5	5	51.436	42	19	59.28	4	9006	11753 S 6	SJ	343			
	3	29	15	55	30.9143	7	56	45.806	56	59	50.67	4	9008	16713 S 5	SJ	349			
	3	29	15	55	38.9096	5	4	9.384	42	46	19.06	4	9006	11753 S 7	SJ	344			
	3	29	15	55	38.9146	7	55	45.282	57	40	8.57	4	9008	16713 S 6	SJ	350			
	3	29	15	55	46.9097	5	2	26.221	43	12	26.33	4	9006	11753 S 8	SJ	345			
	3	29	15	55	46.9149	7	54	41.999	58	20	15.53	4	9008	16713 S 7	SJ	351			
	3	29	15	55	54.9099	5	0	41.880	43	38	17.35	4	9006	11753 S 9	SJ	346			
	3	29	15	55	54.9150	7	53	37.241	59	0	7.55	4	9008	16713 S 8	SJ	352			
	3	29	15	56	2.9098	4	58	55.874	44	3	52.19	4	9006	11753 S10	SJ	347			
	3	29	15	56	2.9153	7	52	30.515	59	39	40.66	4	9008	16713 S 9	SJ	797			
	3	29	15	56	10.9156	7	51	21.233	60	18	57.85	4	9008	16713 S10	SJ	354			
	3	29	23	48	42.9025	8	46	56.627	14	40	11.46	4	9011	13431 S10	BN	9255			
	3	29	23	48	42.9066	9	33	25.163	-5	37	38.42	4	9007	12534 S 5	BN	8548			
	3	29	23	48	42.9089	9	21	52.019	-42	54	48.38	4	9009	10869 S 2	BN	8554			
	3	29	23	48	50.9025	8	46	26.613	15	13	26.89	4	9011	13431 S11	BN	9256			
	3	29	23	48	50.9066	9	32	45.458	-4	55	48.08	4	9007	12534 S 6	BN	8549			
	3	29	23	48	50.9090	9	21	10.837	-42	27	23.52	4	9009	10869 S 3	BN	8555			
	3	29	23	48	58.9022	8	45	56.961	15	46	30.83	4	9011	13431 S12	BN	9257			
	3	29	23	48	58.9063	9	32	5.999	-4	13	58.93	4	9007	12534 S 7	BN	8550			
	3	29	23	48	58.9086	9	23	29.700	-41	59	38.20	4	9009	10869 S 4	BN	9004			
	3	29	23	49	6.9022	8	45	27.302	16	19	16.40	4	9011	13431 S13	BN	9258			
	3	29	23	49	6.9064	9	31	26.794	-3	32	10.90	4	9007	12534 S 8	BN	8551			
	3	29	23	49	6.9089	9	19	48.999	-41	31	41.06	4	9009	10869 S 5	BN	8557			
	3	29	23	49	14.9023	8	44	57.872	16	51	50.62	4	9011	13431 S14	BN	9259			
	3	29	23	49	14.9060	9	30	47.916	-2	50	29.25	4	9007	12534 S 9	BN	8552			
	3	29	23	49	14.9090	9	19	8.782	-41	3	33.24	4	9009	10869 S 6	BN	8558			
	3	29	23	49	22.9021	8	44	28.519	17	24	11.12	4	9011	13431 S15	BN	9260			
	3	29	23	49	22.9062	9	30	9.568	-2	8	47.90	4	9007	12534 S10	BN	8553			
	3	29	23	49	22.9087	9	18	28.926	-40	35	8.48	4	9009	10869 S 7	BN	8559			
	3	29	23	49	30.9022	8	43	59.774	17	56	16.93	4	9011	13431 S16	BN	9261			
	3	29	23	49	30.9062	9	29	31.744	-1	27	10.90	4	9007	12534 S11	BN	9003			
	3	29	23	49	30.9088	9	17	49.514	-40	6	32.69	4	9009	10869 S 8	BN	8560			
	3	31	C	41	38.8973	7	41	13.653	9	32	47.40	4	9011	13450 S10	RD	8862			
	3	31	C	41	38.9107	7	50	17.902	-48	19	47.99	4	9009	10890 S 4	EM	8855			
	3	31	C	41	46.8972	7	40	54.954	10	7	19.13	4	9011	13450 S11	RD	8863			
	3	31	C	41	46.9110	7	49	50.480	-47	51	35.76	4	9009	10890 S 5	EM	8856			

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS.NO.
1964	3 31	1	7 40 36.788	10 41 30.12	9011	13450 S12	RD	8864
	3 31	1	7 49 23.328	-47 23 32.62	9009	10890 S 6	EM	8857
	3 31	1	7 40 18.129	11 15 32.04	9011	13450 S13	RD	8865
	3 31	1	7 48 55.843	-46 54 35.20	9009	10890 S 7	EM	8858
	3 31	1	7 39 59.734	11 49 11.12	9011	13450 S14	RD	8866
	3 31	1	7 48 28.693	-46 25 46.54	9009	10890 S 8	EM	8859
	3 31	1	7 39 41.219	12 22 38.52	9011	13450 S15	RD	8867
	3 31	1	7 48 1.538	-45 56 47.34	9009	10890 S 9	EM	8860
	3 31	1	7 39 22.718	12 55 47.62	9011	13450 S16	RD	8868
	3 31	1	7 47 34.535	-45 27 32.88	9009	10890 S10	EM	8861
	4 1	1	6 46 22.745	11 46 4.03	9011	13464 S15	VP	1308
	4 1	1	6 30 36.765	-39 10 27.78	9009	10905 S11	VP	2679
	4 1	1	6 46 44.837	9 50 15.32	9011	13464 S11	VP	1304
	4 1	1	6 30 55.747	-41 4 16.52	9009	10905 S 7	VP	2675
	4 1	1	6 46 39.730	10 19 32.46	9011	13464 S12	VP	1305
	4 1	1	6 30 51.628	-40 36 0.10	9009	10905 S 8	VP	2676
	4 1	1	6 46 34.224	10 48 33.07	9011	13464 S13	VP	1306
	4 1	1	6 30 47.217	-40 7 37.48	9009	10905 S 9	VP	2677
	4 1	1	6 46 28.464	11 17 25.83	9011	13464 S14	VP	1307
	4 1	1	6 30 42.393	-39 39 0.91	9009	10905 S10	FN	4315
	23 45	1	8 39 23.952	18 31 58.17	9011	13475 S 4	PK	1286
	23 45	1	9 11 8.500	-40 0 0.19	9009	10915 S 3	SU	1279
	23 46	1	8 38 56.031	19 3 33.81	9011	13475 S 5	PK	1287
	23 46	1	9 10 30.186	-39 30 35.84	9009	10915 S 4	SU	1280
	23 46	1	8 38 28.337	19 34 58.50	9011	13475 S 6	PK	1288
	23 46	1	9 9 51.984	-39 0 57.28	9009	10915 S 5	SU	1281
	23 46	1	8 38 0.628	20 6 5.23	9011	13475 S 7	PK	1289
	23 46	1	9 9 14.033	-38 31 2.74	9009	10915 S 6	SU	1282
	23 46	1	8 37 33.324	20 37 0.31	9011	13475 S 8	PK	1290
	23 46	1	9 8 36.582	-38 0 55.12	9009	10915 S 7	SU	1283
	23 46	1	8 37 6.067	21 7 41.80	9011	13475 S 9	PK	1291
	23 46	1	9 7 59.279	-37 30 32.93	9009	10915 S 8	SU	1284
	23 46	1	8 36 38.837	21 38 7.94	9011	13475 S10	PK	1292
	23 46	1	9 7 22.473	-36 59 55.22	9009	10915 S 9	SU	1285
	16 39	1	6 55 28.036	20 11 30.54	9008	16766 S 2	LT	1084
	16 39	1	6 54 33.258	20 52 17.91	9008	16766 S 3	LT	1085
	16 39	1	6 53 37.740	21 33 5.65	9008	16766 S 4	LT	1086
	16 39	1	5 37 51.713	14 28 30.86	9006	11834 S 2	SU	1273
	16 39	1	6 52 41.497	22 13 51.86	9008	16766 S 5	LT	1087
	16 40	1	6 51 44.310	22 54 37.64	9008	16766 S 6	LT	1088
	16 40	1	5 36 21.500	15 20 37.39	9006	11834 S 4	SU	1274
	16 40	1	6 50 46.336	23 35 20.48	9008	16766 S 7	LT	1089
	16 40	1	5 35 35.739	15 46 34.03	9006	11834 S 5	SU	1275
	16 40	1	5 34 49.499	16 12 29.21	9006	11834 S 6	SU	1276
	16 40	1	5 34 2.588	16 38 21.36	9006	11834 S 7	SU	1277

DATE		TIME (A-I)		RMS	R.A.(1950.0)			DECL.(1950.0)			STATION	FRAME NO.	MS	OBS.NO.		
Y	M	D	H	M	S	H	M	S	D	M	S					
1964	4	2	16	40	35.0085	1	5	33	15.237	17	4	9.19	4	9006	11834 S 8 SU	1278
	4	2	16	44	18.9252	1	6	11	58.960	43	30	35.85	4	9008	16767 S 3 JV	1097
	4	2	16	44	19.0097	1	5	7	21.262	28	34	58.63	4	9006	11835 S 4 LT	1090
	4	2	16	44	26.9255	1	6	10	21.659	44	5	51.38	4	9008	16767 S 4 JV	1098
	4	2	16	44	27.0099	1	5	6	16.462	28	58	13.95	4	9006	11835 S 5 LT	1091
	4	2	16	44	34.9258	1	6	8	42.328	44	40	52.31	4	9008	16767 S 5 JV	1099
	4	2	16	44	35.0097	1	5	5	11.500	29	21	16.96	4	9006	11835 S 6 LT	1092
	4	2	16	44	42.9259	1	6	7	1.380	45	15	31.46	4	9008	16767 S 6 JV	2204
	4	2	16	44	43.0098	1	5	4	5.402	29	44	18.52	4	9006	11835 S 7 LT	1093
	4	2	16	44	50.9259	1	6	5	18.695	45	49	47.09	4	9008	16767 S 7 JV	1101
	4	2	16	44	51.0099	1	5	2	58.873	30	7	9.95	4	9006	11835 S 8 LT	1094
	4	2	16	44	58.9262	1	6	3	34.086	46	23	51.53	4	9008	16767 S 8 JV	1102
	4	2	16	44	59.0099	1	5	1	51.484	30	29	55.64	4	9006	11835 S 9 LT	1095
	4	2	16	45	6.9264	1	6	1	46.896	46	57	43.36	4	9008	16767 S 9 JV	1103
	4	2	16	45	7.0098	1	5	0	43.331	30	52	36.14	4	9006	11835 S 10 LT	1096
	4	3	16	47	46.9276	1	7	43	45.578	-48	27	22.10	4	9009	10933 S 2 BN	569
	4	3	16	47	47.0083	1	7	37	40.060	8	52	3.78	4	9011	13491 S 5 BN	576
	4	3	16	47	50.9280	1	7	43	33.303	-48	13	17.45	4	9009	10933 S 3 BN	570
	4	3	16	47	54.9280	1	7	43	20.834	-47	59	15.34	4	9009	10933 S 4 BN	571
	4	3	16	47	55.0083	1	7	37	23.212	9	26	26.97	4	9011	13491 S 6 BN	577
	4	3	16	47	58.9277	1	7	43	8.463	-47	45	4.32	4	9009	10933 S 5 BN	572
	4	3	16	48	2.9277	1	7	42	56.051	-47	30	52.49	4	9009	10933 S 6 BN	573
	4	3	16	48	3.0081	1	7	37	6.187	10	3	34.81	4	9011	13491 S 7 BN	578
	4	3	16	48	6.9279	1	7	42	43.721	-47	16	41.31	4	9009	10933 S 7 BN	574
	4	3	16	48	10.9279	1	7	42	31.377	-47	2	24.17	4	9009	10933 S 8 BN	575
	4	3	16	48	11.0082	1	7	36	49.480	10	34	29.06	4	9011	13491 S 8 BN	579
	4	3	16	48	16.0081	1	7	36	32.317	11	8	5.32	4	9011	13491 S 9 BN	580
	4	3	16	48	27.0079	1	7	36	15.412	11	41	21.47	4	9011	13491 S 10 BN	581
	4	3	16	48	28.0079	1	7	35	58.339	12	14	26.51	4	9011	13491 S 11 BN	582
	6	2	16	48	31.1052	1	21	8	41.518	5	12	42.04	4	9009	11692 S 1 WS	532
	6	2	16	48	35.1052	1	21	26	38.701	43	10	50.46	4	9007	13338 S 2 AM	544
	6	2	16	48	36.1053	1	21	8	6.823	4	23	10.85	4	9009	11692 S 2 WS	533
	6	2	16	48	43.1051	1	21	26	3.610	42	42	5.95	4	9007	13338 S 3 AM	545
	6	2	16	48	47.1051	1	21	7	32.286	3	33	50.96	4	9009	11692 S 3 WS	1541
	6	2	16	48	51.1052	1	21	25	28.389	42	12	53.97	4	9007	13338 S 4 AM	546
	6	2	16	48	55.1052	1	21	6	58.132	2	44	34.84	4	9009	11692 S 4 WS	535
	6	2	16	49	3.1053	1	21	24	53.538	41	43	30.79	4	9007	13338 S 5 JW	547
	6	2	16	49	11.1054	1	21	6	24.016	1	55	31.36	4	9009	11692 S 5 WS	536
	6	2	16	49	17.1051	1	21	24	18.513	41	13	53.06	4	9007	13338 S 6 JW	548
	6	2	16	49	21.1052	1	21	23	44.214	40	44	1.72	4	9007	13338 S 7 JW	549
	6	2	16	49	23.1055	1	21	23	9.905	40	13	53.45	4	9007	13338 S 8 JW	550
	6	29	16	49	11.1398	1	20	20	5.600	33	3	36.72	4	9009	12063 S 3 TA	537
	6	29	16	49	11.1430	1	20	35	55.119	3	53	31.39	4	9009	16363 S 1 AC	861
	6	29	16	49	15.1400	1	20	20	0.869	32	41	23.29	4	9009	12063 S 4 TA	538
	6	29	16	49	15.1400	1	20	19	56.039	32	19	6.78	4	9009	12063 S 5 TA	539

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 6 29	8 28 15.1429	1	23 35 13.802	C 21 25.00	4	9001	16363 S 2	AC	862
6 29	8 28 23.1398	1	20 19 51.486	31 56 49.98	4	9009	12063 S 6	TA	540
6 29	8 28 27.1450	1	20 19 46.311	31 34 30.19	4	9009	12063 S 7	TA	541
6 29	8 28 27.1430	1	23 34 32.858	- 0 10 37.57	4	9001	16363 S 3	AC	863
6 29	8 28 31.1402	1	20 19 41.453	31 12 7.86	4	9009	12063 S 8	AM	542
6 29	8 28 35.1399	1	20 19 36.596	30 49 43.25	4	9009	12063 S 9	AM	543
6 29	8 28 35.1431	1	23 33 52.540	- 0 42 38.72	4	9001	16363 S 4	AC	864
6 29	8 28 51.1446	1	20 30 48.698	42 46 47.68	4	9007	13683 S 1	MY	1111
6 29	8 28 55.1399	1	20 12 12.646	5 48 8.82	4	9009	12065 S 7	YK	1104
6 29	8 28 59.1441	1	20 30 28.391	42 17 25.83	4	9007	13683 S 2	MY	1112
6 29	8 33 2.1398	1	20 12 4.310	5 25 49.21	4	9009	12065 S 8	YK	1105
6 29	8 33 7.1401	1	20 11 55.558	5 3 36.18	4	9009	12065 S 9	YK	1106
6 29	8 33 7.1443	1	20 30 7.719	41 47 49.15	4	9007	13683 S 3	AM	1113
6 29	8 33 11.1398	1	20 11 47.185	4 41 28.73	4	9009	12065 S 10	YK	1107
6 29	8 33 15.1401	1	20 11 38.458	4 19 6.79	4	9009	12065 S 11	YK	1108
6 29	8 33 15.1444	1	20 29 46.969	41 18 1.39	4	9007	13683 S 4	AM	1114
6 29	8 33 19.1398	1	20 11 29.949	3 57 12.27	4	9009	12065 S 12	YK	1109
6 29	8 33 23.1400	1	20 11 21.134	3 35 2.47	4	9009	12065 S 13	YK	1110
6 29	8 33 23.1444	1	20 29 26.138	40 48 3.46	4	9007	13683 S 5	AM	1115
6 29	8 33 31.1443	1	20 29 5.278	40 17 53.72	4	9007	13683 S 6	AM	1116
6 29	8 33 39.1447	1	20 28 44.060	39 47 25.22	4	9007	13683 S 7	AM	1117
6 29	8 36 7.1397	1	20 4 36.215	-10 46 20.12	4	9009	12066 S 2	WC	872
6 29	8 36 11.1396	1	20 4 25.016	-11 6 2.47	4	9009	12066 S 3	WC	873
6 29	8 36 11.1410	1	20 21 33.411	29 29 53.06	4	9007	13684 S 1	WI	865
6 29	8 36 15.1395	1	20 4 13.950	-11 25 44.36	4	9009	12066 S 4	WC	874
6 29	8 36 15.1396	1	20 4 2.718	-11 45 22.59	4	9009	12066 S 5	WC	875
6 29	8 36 15.1409	1	20 21 8.997	28 55 12.39	4	9007	13684 S 2	WI	866
6 29	8 36 23.1396	1	20 3 51.521	-12 4 55.20	4	9009	12066 S 6	WC	876
6 29	8 36 27.1395	1	20 3 39.965	-12 24 24.36	4	9009	12066 S 7	WC	877
6 29	8 36 27.1407	1	20 20 44.355	28 20 23.36	4	9007	13684 S 3	WI	867
6 29	8 36 31.1394	1	20 3 28.762	-12 43 51.47	4	9009	12066 S 8	WC	878
6 29	8 36 35.1403	1	20 20 19.399	27 45 18.05	4	9007	13684 S 4	WI	868
6 29	8 36 42.1407	1	20 19 4.535	27 10 0.00	4	9007	13684 S 5	JW	1542
6 29	8 36 51.1407	1	20 19 29.664	26 34 35.34	4	9007	13684 S 6	JW	870
6 29	8 36 55.1407	1	20 19 4.152	25 58 49.20	4	9007	13684 S 7	WC	871
6 30	9 17 31.1367	1	19 0 57.404	46 35 14.07	4	9009	12083 S 4	BN	1034
6 30	9 17 31.1436	1	23 21 16.126	25 33 5.05	4	9001	16378 S 2	BN	1027
6 30	9 17 35.1366	1	19 1 18.916	46 18 52.88	4	9009	12083 S 5	BN	1035
6 30	9 17 39.1367	1	19 1 39.722	46 2 31.93	4	9009	12083 S 6	BN	1036
6 30	9 17 35.1438	1	23 20 4.939	24 51 38.78	4	9001	16378 S 3	BN	1028
6 30	9 17 42.1365	1	19 2 0.381	45 46 1.00	4	9009	12083 S 7	BN	1037
6 30	9 17 47.1366	1	19 2 20.398	45 29 38.48	4	9009	12083 S 8	BN	1038
6 30	9 17 47.1439	1	23 18 54.516	24 10 0.62	4	9001	16378 S 4	BN	1029
6 30	9 17 51.1366	1	19 2 40.544	45 13 2.83	4	9009	12083 S 9	BN	1039
6 30	9 17 55.1365	1	19 3 0.332	44 56 27.99	4	9009	12083 S 10	BN	1040

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	STATION	FRAME NO.	MS	OBS.-NO.
1964	6 30	9 17 55.1439	23 17 45.631	23 28 24.63	9001	16378 S 5	BN	1030
6 30	9 18 3.1440	1	23 16 37.677	22 46 44.21	9001	16378 S 6	BN	1031
6 30	9 18 11.1440	1	23 15 35.655	22 4 55.80	9001	16378 S 7	BN	1032
6 30	9 18 19.1440	1	23 14 24.726	21 23 10.96	9001	16378 S 8	BN	1033
6 30	9 26 27.1507	1	19 31 18.232	37 53 25.43	9007	13702 S 1	WC	436
6 30	9 26 43.1504	1	19 31 15.594	36 58 59.87	9007	13702 S 2	RD	437
6 30	9 26 43.2373	1	20 16 30.980	-12 49 46.23	9010	14159 S 1	WC	443
6 30	9 26 51.2385	1	20 16 17.570	-13 23 39.49	9010	14159 S 2	WC	444
6 30	9 26 59.1500	1	19 31 1.238	36 4 7.30	9007	13702 S 3	RD	438
6 30	9 26 59.2397	1	20 16 3.874	-13 57 16.54	9010	14159 S 3	WC	445
6 30	9 27 7.2415	1	20 15 50.120	-14 30 35.53	9010	14159 S 4	WC	446
6 30	9 27 15.1498	1	19 30 50.919	35 8 43.67	9007	13702 S 4	RD	439
6 30	9 27 15.2429	1	20 15 36.311	-15 3 39.34	9010	14159 S 5	WC	447
6 30	9 27 23.2441	1	20 15 21.964	-15 36 23.86	9010	14159 S 6	WC	448
6 30	9 27 31.1496	1	19 30 38.746	34 12 54.51	9007	13702 S 5	RD	440
6 30	9 27 31.2451	1	20 15 7.562	-16 8 55.00	9010	14159 S 7	WC	449
6 30	9 27 47.1504	1	19 30 25.546	33 16 32.93	9007	13702 S 6	RD	441
6 30	9 28 3.1504	1	19 30 10.833	32 19 45.96	9007	13702 S 7	RD	442
7 1	7 24 43.1926	1	23 48 13.696	37 22 24.71	9010	14170 S 5	SJ	695
7 1	7 24 51.1925	1	23 46 44.064	36 44 46.97	9010	14170 S 6	JV	696
7 1	7 24 59.1915	1	23 45 15.710	36 6 52.03	9010	14170 S 7	JV	697
7 1	7 25 7.1909	1	23 43 49.124	35 28 44.24	9010	14170 S 8	JV	698
7 1	7 25 15.1355	1	22 45 36.309	59 54 20.92	9009	12096 S 14	SJ	691
7 1	7 25 15.1907	1	23 42 23.662	34 50 21.33	9010	14170 S 9	JV	699
7 1	7 25 15.1354	1	22 44 47.719	59 38 22.95	9009	12096 S 15	SJ	692
7 1	7 25 23.1357	1	22 43 58.992	59 27 17.65	9009	12096 S 16	SJ	693
7 1	7 25 23.1906	1	23 40 59.826	34 11 42.32	9010	14170 S 10	JV	700
7 1	7 25 27.1355	1	22 43 11.433	59 6 9.78	9009	12096 S 17	SJ	694
7 1	7 25 31.1904	1	23 39 37.105	33 32 51.53	9010	14170 S 11	JV	701
7 1	7 35 59.1403	1	21 33 55.837	1 13 23.76	9009	12098 S 2	SS	84
7 1	7 36 3.1401	1	21 33 38.610	0 49 0.53	9009	12098 S 3	SS	85
7 1	7 36 3.1468	1	21 51 32.909	40 41 21.03	9007	13712 S 5	SS	77
7 1	7 36 3.2021	1	22 33 26.248	-19 5 22.19	9010	14172 S 2	DM	758
7 1	7 36 7.1401	1	21 33 21.462	0 24 42.82	9009	12098 S 4	SS	86
7 1	7 36 11.1466	1	21 50 58.424	40 11 19.22	9007	13712 S 6	SS	78
7 1	7 36 11.2027	1	22 32 54.989	-19 39 42.98	9010	14172 S 3	DM	472
7 1	7 36 15.1403	1	21 32 47.427	-0 23 43.15	9009	12098 S 6	SS	87
7 1	7 36 19.1402	1	21 32 30.569	-0 47 54.95	9009	12098 S 7	SS	88
7 1	7 36 19.1468	1	21 50 23.899	39 40 59.61	9007	13712 S 7	SS	79
7 1	7 36 19.2031	1	22 32 23.823	-20 13 45.71	9010	14172 S 4	DM	473
7 1	7 36 23.1404	1	21 32 13.535	-1 12 6.39	9009	12098 S 8	SS	89
7 1	7 36 27.1405	1	21 31 56.211	-1 36 10.65	9009	12098 S 9	SS	757
7 1	7 36 27.1465	1	21 49 49.622	39 10 24.63	9007	13712 S 8	SS	80
7 1	7 36 27.2036	1	22 31 53.131	-20 47 37.86	9010	14172 S 5	DM	474
7 1	7 36 35.1466	1	21 49 15.474	38 39 31.97	9007	13712 S 9	SS	81

Satellite 1961 Alpha Delta 1

1 July - 2 July 1964

DATE Y M D	TIME (A-1) H M S	RMS PS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 7 1	7 36 35.2037	1	22 31 22.595	-21 21 17.85	4	9010	14172 S 6	DM	475
7 1	7 36 43.1465	1	21 48 41.601	38 8 27.18	4	9007	13712 S10	SS	82
7 1	7 36 43.2040	1	22 30 52.229	-21 54 35.82	4	9010	14172 S 7	DM	476
7 1	7 36 51.1469	1	21 48 7.811	37 37 3.55	4	9007	13712 S11	SS	83
7 1	7 36 51.2546	1	22 30 22.057	-22 27 52.18	4	9010	14172 S 8	DM	477
7 2	8 10 27.1520	1	1 47 54.724	78 43 22.19	4	9010	14191 S 4	VP	9382
7 2	8 10 31.1019	1	1 43 19.526	78 37 1.33	4	9010	14191 S 5	VP	195
7 2	8 10 35.1017	1	1 38 51.234	78 30 20.77	4	9010	14191 S 6	VP	9384
7 2	8 10 35.1454	1	2 2 55.585	50 37 52.39	4	9001	16398 S 3	VP	9377
7 2	8 10 39.1718	1	1 34 25.291	78 23 26.28	4	9010	14191 S 7	VP	9385
7 2	8 10 43.1021	1	1 30 4.220	78 16 13.33	4	9010	14191 S 8	VP	9386
7 2	8 10 43.1454	1	2 0 28.603	50 20 46.22	4	9001	16398 S 4	VP	9378
7 2	8 10 51.1455	1	1 58 2.999	50 3 18.03	4	9001	16398 S 5	VP	9379
7 2	8 10 59.1456	1	1 55 38.754	49 45 36.62	4	9001	16398 S 6	VP	9380
7 2	8 11 7.1457	1	1 53 15.281	49 27 27.97	4	9001	16398 S 7	VP	9381
7 2	8 16 11.1040	1	22 37 0.781	58 1 0.30	4	9010	14193 S 5	VP	9633
7 2	8 16 11.1445	1	0 39 53.025	34 13 17.95	4	9001	16399 S 3	VP	9628
7 2	8 16 15.1043	1	22 36 8.165	57 40 55.45	4	9010	14193 S 6	VP	9634
7 2	8 16 15.1048	1	22 35 16.347	57 20 45.05	4	9010	14193 S 7	VP	9635
7 2	8 16 15.1445	1	0 38 22.690	33 44 15.34	4	9001	16399 S 4	VP	9629
7 2	8 16 23.1050	1	22 34 25.595	57 0 28.32	4	9010	14193 S 8	VP	9636
7 2	8 16 27.1052	1	22 33 35.336	56 40 5.34	4	9010	14193 S 9	VP	9637
7 2	8 16 27.1447	1	0 36 53.097	33 14 51.87	4	9001	16399 S 5	VP	9630
7 2	8 16 31.1051	1	22 32 45.832	56 19 35.19	4	9010	14193 S10	VP	9638
7 2	8 16 35.1050	1	22 31 57.114	55 59 1.86	4	9010	14193 S11	VP	9639
7 2	8 16 35.1448	1	0 35 25.140	32 45 25.39	4	9001	16399 S 6	VP	9631
7 2	8 16 42.1447	1	0 33 58.105	32 15 44.23	4	9001	16399 S 7	VP	9632
7 2	8 19 35.1452	1	0 6 22.175	20 42 47.63	4	9001	16400 S 3	PG	1258
7 2	8 19 55.1454	1	0 4 13.220	19 36 56.89	4	9001	16400 S 5	PG	817
7 2	8 20 3.1455	1	0 3 10.019	19 3 55.89	4	9001	16400 S 6	PG	818
7 2	8 20 11.1455	1	0 2 7.681	18 30 55.64	4	9001	16400 S 7	PG	819
7 2	8 20 15.1016	1	21 59 58.033	35 6 26.27	4	9010	14194 S 9	PG	809
7 2	8 20 15.1011	1	21 59 32.453	34 41 59.72	4	9010	14194 S10	PG	810
7 2	8 20 15.1455	1	0 1 6.223	17 57 42.40	4	9001	16400 S 8	PG	820
7 2	8 20 23.1009	1	21 59 7.388	34 17 34.54	4	9010	14194 S11	PG	811
7 2	8 20 27.1002	1	21 58 42.325	33 53 6.24	4	9010	14194 S12	PG	812
7 2	8 20 27.1455	1	0 0 5.360	17 24 33.69	4	9001	16400 S 9	PG	821
7 2	8 20 31.0998	1	21 58 17.660	33 28 33.71	4	9010	14194 S13	PG	813
7 2	8 20 35.0993	1	21 57 52.947	33 4 2.72	4	9010	14194 S14	PG	814
7 2	8 20 35.1454	1	23 59 5.246	16 51 20.77	4	9001	16400 S10	PG	822
7 2	8 20 35.0990	1	21 57 28.419	32 39 27.88	4	9010	14194 S15	PG	815
7 2	8 23 35.0970	1	21 42 4.610	14 9 19.30	4	9010	14195 S12	VP	9191
7 2	8 23 35.1444	1	20 14 24.152	36 32 16.93	4	9009	12117 S 3	VP	9186
7 2	8 23 35.1472	1	23 39 9.224	4 2 24.43	4	9001	16402 S 7	VP	9181
7 2	8 23 43.0972	1	21 41 47.115	13 45 4.11	4	9010	14195 S13	VP	9192

Satellite 1961 Alpha Delta 1

2 July - 3 July 1964

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 7 2	8 23 47.0972	1	21 41 29.567	13 20 53.68	4	9010	14195 S14	VP	9193
7 2	8 23 47.1443	1	20 14 20.209	35 49 16.51	4	9009	12117 S 4	VP	9187
7 2	8 23 47.1473	1	23 38 24.449	3 29 17.14	4	9001	16402 S 8	VP	9182
7 2	8 23 51.0970	1	21 41 12.194	12 56 44.96	4	9010	14195 S15	VP	9194
7 2	8 23 55.0971	1	21 40 54.868	12 32 39.36	4	9010	14195 S16	VP	9195
7 2	8 23 55.1446	1	20 14 15.777	35 6 1.18	4	9009	12117 S 5	VP	9188
7 2	8 23 55.1471	1	23 37 40.106	2 56 11.55	4	9001	16402 S 9	VP	9183
7 2	8 23 55.0974	1	21 40 37.502	12 8 36.91	4	9010	14195 S17	VP	9196
7 2	8 24 3.0974	1	21 40 26.455	11 44 35.45	4	9010	14195 S18	VP	9197
7 2	8 24 3.1450	1	20 14 10.931	34 22 41.47	4	9009	12117 S 6	VP	9189
7 2	8 24 3.1472	1	23 36 56.482	2 23 6.33	4	9001	16402 S10	VP	9184
7 2	8 24 11.1453	1	20 14 5.902	33 39 13.83	4	9009	12117 S 7	VP	9190
7 2	8 24 11.1470	1	23 36 12.965	1 50 6.03	4	9001	16402 S11	VP	9185
7 2	8 28 51.1436	1	23 15 34.577	-16 26 3.65	4	9001	16403 S 3	AC	1269
7 2	8 28 51.1480	1	20 26 12.752	43 4 46.27	4	9007	13734 S 3	EM	830
7 2	8 28 59.1436	1	23 15 5.972	-16 55 18.31	4	9001	16403 S 4	AC	1270
7 2	8 28 59.1480	1	20 25 54.306	42 35 46.23	4	9007	13734 S 4	EM	831
7 2	8 29 7.1436	1	23 14 37.553	-17 24 27.44	4	9001	16403 S 5	AC	825
7 2	8 29 7.1481	1	20 25 35.605	42 6 30.17	4	9007	13734 S 5	NG	832
7 2	8 29 15.1436	1	23 14 9.338	-17 53 24.96	4	9001	16403 S 6	EM	1271
7 2	8 29 15.1478	1	20 25 17.405	41 37 7.87	4	9007	13734 S 6	NG	833
7 2	8 29 23.1436	1	23 13 41.688	-18 22 14.03	4	9001	16403 S 7	EM	827
7 2	8 29 23.1477	1	20 24 58.811	41 7 28.47	4	9007	13734 S 7	NG	834
7 2	8 29 31.1437	1	23 13 14.276	-18 50 57.53	4	9001	16403 S 8	EM	1272
7 2	8 29 31.1472	1	20 24 39.594	40 37 37.74	4	9007	13734 S 8	NG	835
7 2	8 29 39.1434	1	23 12 47.286	-19 19 31.73	4	9001	16403 S 9	EM	829
7 2	8 29 39.1477	1	20 24 20.837	40 7 41.02	4	9007	13734 S 9	JV	836
7 3	6 39 39.1545	1	23 1 46.257	31 47 59.13	4	9007	13751 S 4	SJ	1695
7 3	6 39 47.1546	1	23 1 15.831	31 18 11.00	4	9007	13751 S 5	SJ	9562
7 3	6 39 55.1543	1	23 0 45.660	30 48 2.97	4	9007	13751 S 6	SJ	9563
7 3	6 39 59.1469	1	22 50 34.046	- 8 57 25.13	4	9009	12123 S13	SS	9567
7 3	6 40 3.1471	1	22 50 17.750	- 9 18 43.07	4	9009	12123 S14	SS	9568
7 3	6 40 3.1548	1	23 0 15.668	30 17 37.04	4	9007	13751 S 7	SJ	9564
7 3	6 40 7.1467	1	22 50 1.702	- 9 40 0.73	4	9009	12123 S15	SS	9569
7 3	6 40 11.1469	1	22 49 45.666	-10 1 19.31	4	9009	12123 S16	SS	9570
7 3	6 40 11.1545	1	22 59 45.991	29 46 54.75	4	9007	13751 S 8	SJ	9565
7 3	6 40 11.1750	1	23 17 53.288	-23 42 26.86	4	9010	14206 S 6	SJ	9573
7 3	6 40 15.1470	1	22 49 29.779	-10 22 31.59	4	9009	12123 S17	SS	9571
7 3	6 40 19.1467	1	22 49 13.794	-10 43 41.62	4	9009	12123 S18	SS	9572
7 3	6 40 19.1546	1	22 59 16.667	29 16 1.82	4	9007	13751 S 9	SJ	9566
7 3	6 40 19.1770	1	23 17 30.959	-24 11 8.80	4	9010	14206 S 7	SJ	9574
7 3	6 40 27.1784	1	23 17 8.790	-24 39 45.64	4	9010	14206 S 8	SJ	9575
7 3	6 40 35.1797	1	23 16 46.803	-25 8 11.84	4	9010	14206 S 9	SJ	9576
7 3	6 46 19.1509	1	22 41 19.103	1 23 31.84	4	9007	13752 S 5	DM	9673
7 3	6 46 19.1582	1	22 28 59.691	-39 6 26.31	4	9009	12124 S 3	DM	9678

3 July 1964

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 7 3	6 46 27.1511	1	22 40 59.652	0 40 18.53	4	9007	13752 S 6	DM	196
7 3	6 46 27.1581	1	22 28 36.005	-39 38 59.23	4	9007	12124 S 4	DM	9679
7 3	6 46 35.1511	1	22 40 40.138	-0 3 11.48	4	9009	13752 S 7	SU	9674
7 3	6 46 35.1581	1	22 28 12.486	-40 11 15.60	4	9009	12124 S 5	DM	9680
7 3	6 46 43.1510	1	22 40 21.072	-0 46 50.58	4	9007	13752 S 8	SU	9675
7 3	6 46 43.1581	1	22 27 49.308	-40 43 21.70	4	9009	12124 S 6	DM	9681
7 3	6 46 51.1508	1	22 40 2.024	-1 30 42.80	4	9007	13752 S 9	SU	9676
7 3	6 46 51.1580	1	22 27 25.855	-41 15 11.22	4	9009	12124 S 7	DM	9682
7 3	6 46 59.1508	1	22 39 42.967	-2 14 50.32	4	9007	13752 S10	SU	9677
7 3	9 9 23.1083	1	20 6 30.469	59 20 1.30	4	9010	14216 S 6	VP	9925
7 3	9 9 23.1401	10	0 9 29.482	47 28 51.53	4	9001	16425 S 3	VP	9919
7 3	9 9 31.1078	1	20 7 9.883	58 38 59.94	4	9010	14216 S 7	VP	9926
7 3	9 9 31.1401	10	0 7 22.502	46 54 1.78	4	9001	16425 S 4	VP	9920
7 3	9 9 39.1081	1	20 7 47.399	57 57 46.47	4	9010	14216 S 8	VP	9927
7 3	9 9 39.1404	10	0 5 17.633	46 18 49.68	4	9001	16425 S 5	VP	9921
7 3	9 9 47.1088	1	20 8 23.342	57 16 16.42	4	9010	14216 S 9	VP	9928
7 3	9 9 47.1406	10	0 3 15.342	45 43 17.55	4	9001	16425 S 6	VP	9922
7 3	9 9 55.1086	1	20 8 57.608	56 34 28.95	4	9010	14216 S10	VP	9929
7 3	9 9 55.1405	10	0 1 15.308	45 7 21.91	4	9001	16425 S 7	VP	9923
7 3	9 10 3.1092	1	20 9 30.213	55 52 28.40	4	9010	14216 S11	VP	9930
7 3	9 10 3.1404	10	23 59 17.808	44 31 6.07	4	9001	16425 S 8	VP	9924
7 3	9 12 35.1142	1	20 16 15.003	41 55 2.33	4	9010	14217 S 3	SD	9028
7 3	9 12 35.1500	10	23 28 10.751	32 7 9.94	4	9001	16426 S 3	SS	9021
7 3	9 12 43.1133	1	20 16 27.388	41 9 20.29	4	9010	14217 S 4	SD	9029
7 3	9 12 43.1500	10	23 26 48.912	31 25 45.75	4	9001	16426 S 4	SS	9022
7 3	9 12 51.1133	1	20 16 39.701	40 23 31.85	4	9010	14217 S 5	SD	9030
7 3	9 12 51.1503	10	23 25 28.451	30 44 11.25	4	9001	16426 S 5	SS	9023
7 3	9 12 59.1141	1	20 16 50.925	39 37 41.24	4	9010	14217 S 6	SD	9031
7 3	9 12 59.1504	10	23 24 9.507	30 2 24.81	4	9001	16426 S 6	SS	9024
7 3	9 13 7.1136	1	20 17 1.705	38 51 46.41	4	9010	14217 S 7	SD	9354
7 3	9 13 7.1505	10	23 22 51.888	29 20 34.18	4	9001	16426 S 7	SS	9025
7 3	9 13 15.1134	1	20 17 11.875	38 5 41.83	4	9010	14217 S 8	SD	9032
7 3	9 13 15.1499	10	23 21 35.570	28 38 34.57	4	9001	16426 S 8	SS	9026
7 3	9 13 23.1135	1	20 17 21.382	37 19 34.75	4	9010	14217 S 9	SD	9033
7 3	9 13 23.1504	10	23 20 20.245	27 56 25.33	4	9001	16426 S 9	SS	9027
7 3	9 18 19.1169	1	20 18 21.478	9 25 25.54	4	9010	14218 S 3	VP	9855
7 3	9 18 19.1467	1	19 15 9.071	26 0 41.72	4	9009	12135 S 3	SS	9217
7 3	9 18 19.1477	10	22 45 6.200	1 58 25.44	4	9001	16428 S 3	BN	9210
7 3	9 18 27.1162	1	20 18 16.831	8 42 58.58	4	9010	14218 S 4	VP	9856
7 3	9 18 27.1467	1	19 15 23.765	25 25 25.81	4	9009	12135 S 4	SS	9218
7 3	9 18 27.1486	10	22 44 22.301	1 18 20.42	4	9001	16428 S 4	BN	9211
7 3	9 18 35.1154	1	20 18 12.441	8 0 48.64	4	9010	14218 S 5	VP	9857
7 3	9 18 35.1464	1	19 15 37.894	24 50 3.49	4	9009	12135 S 5	SS	9219
7 3	9 18 35.1488	10	22 43 39.218	0 38 26.08	4	9001	16428 S 5	BN	9212
7 3	9 18 43.1156	1	20 18 7.352	7 18 52.34	4	9010	14218 S 6	VP	9858

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 7 3	9 18 43.1465	1	19 15 51.468	24 14 45.77	4	9009	12135 S 6	SS	9220
7 3	9 18 43.1479	10	22 42 56.538	- 0 1 16.39	4	9001	16428 S 6	BN	9213
7 3	9 18 51.1148	1	20 18 2.227	6 37 10.75	4	9010	14218 S 7	VP	9859
7 3	9 18 51.1466	1	19 16 4.448	23 39 25.62	4	9009	12135 S 7	SS	9221
7 3	9 18 51.1489	10	22 42 14.362	- 0 40 45.62	4	9001	16428 S 7	BN	9214
7 3	9 18 59.1147	1	20 17 56.911	5 55 42.07	4	9010	14218 S 8	VP	9860
7 3	9 18 59.1468	1	19 16 16.895	23 4 5.32	4	9009	12135 S 8	SS	9222
7 3	9 18 59.1478	10	22 41 32.614	- 1 20 6.05	4	9001	16428 S 8	BN	9215
7 3	9 19 7.1155	1	20 17 51.184	5 14 29.83	4	9010	14218 S 9	VP	9861
7 3	9 19 7.1468	1	19 16 28.695	22 28 47.72	4	9009	12135 S 9	FN	375
7 3	9 19 7.1486	10	22 40 51.346	- 1 59 9.31	4	9001	16428 S 9	BN	9216
7 3	9 24 11.1152	1	20 11 33.744	-17 35 30.70	4	9010	14219 S 4	SU	9848
7 3	9 24 13.0763	1	19 29 11.413	31 53 46.13	4	9007	13759 S 3	SS	9841
7 3	9 24 19.1155	1	20 11 19.695	-18 6 25.11	4	9010	14219 S 5	SU	9849
7 3	9 24 21.0766	1	19 29 4.614	31 25 34.95	4	9007	13759 S 4	SS	9842
7 3	9 24 27.1152	1	20 11 5.374	-18 37 4.80	4	9010	14219 S 6	PK	9850
7 3	9 24 29.0764	1	19 28 57.622	30 57 20.71	4	9007	13759 S 5	SS	9843
7 3	9 24 35.1154	1	20 10 50.840	-19 7 33.96	4	9010	14219 S 7	PK	9851
7 3	9 24 37.0765	1	19 28 50.111	30 29 1.08	4	9007	13759 S 6	SS	9844
7 3	9 24 43.1157	1	20 10 36.360	-19 37 44.54	4	9010	14219 S 8	PK	9852
7 3	9 24 45.0764	1	19 28 42.467	30 0 35.15	4	9007	13759 S 7	SS	9845
7 3	9 24 53.0765	1	19 28 34.203	29 32 2.70	4	9007	13759 S 8	SS	9846
7 3	9 24 59.1167	1	20 10 6.359	-20 37 23.49	4	9010	14219 S10	PK	9853
7 3	9 25 1.0764	1	19 28 25.941	29 3 22.93	4	9007	13759 S 9	SS	9847
7 3	9 25 7.1169	1	20 9 51.091	-21 6 51.34	4	9010	14219 S11	PK	9854
7 4	7 31 7.1110	1	22 34 0.515	-14 7 44.01	4	9010	14232 S 4	JW	98
7 4	7 31 7.1526	1	21 49 55.188	44 58 16.04	4	9007	13766 S 2	JW	91
7 4	7 31 15.1098	1	22 33 26.934	-14 44 20.09	4	9010	14232 S 5	JW	99
7 4	7 31 15.1526	1	21 49 19.871	44 30 4.22	4	9007	13766 S 3	JW	92
7 4	7 31 23.1090	1	22 32 53.374	-15 20 39.38	4	9010	14232 S 6	JW	100
7 4	7 31 23.1523	1	21 48 44.926	44 1 37.23	4	9007	13766 S 4	JW	93
7 4	7 31 31.1081	1	22 32 20.240	-15 56 48.71	4	9010	14232 S 7	JW	101
7 4	7 31 31.1522	1	21 48 9.728	43 33 0.42	4	9007	13766 S 5	JW	94
7 4	7 31 39.1071	1	22 31 47.212	-16 32 41.83	4	9010	14232 S 8	JW	102
7 4	7 31 39.1525	1	21 47 35.136	43 4 9.83	4	9007	13766 S 6	JW	95
7 4	7 31 47.1056	1	22 31 14.650	-17 8 19.83	4	9010	14232 S 9	JW	103
7 4	7 31 47.1524	1	21 47 0.774	42 35 0.11	4	9007	13766 S 7	JW	96
7 4	7 31 55.1052	1	22 30 42.220	-17 43 44.55	4	9010	14232 S10	JW	104
7 4	7 31 55.1525	1	21 46 26.272	42 5 38.44	4	9007	13766 S 8	AC	97
7 4	7 34 11.0883	1	22 22 8.614	-27 9 15.61	4	9010	14233 S 2	BA	805
7 4	7 34 19.0881	1	22 21 40.298	-27 40 27.86	4	9010	14233 S 3	BA	806
7 4	7 34 27.0879	1	22 21 12.029	-28 11 23.76	4	9010	14233 S 4	BA	807
7 4	7 34 27.1517	1	21 35 59.289	31 58 15.45	4	9007	13767 S 2	SU	1254
7 4	7 34 35.0873	1	22 20 43.960	-28 42 9.43	4	9010	14233 S 5	BA	808
7 4	7 34 35.1520	1	21 35 27.103	31 23 29.53	4	9007	13767 S 3	SU	801

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 7 4	7 34 43.1520	1	21 34 55.012	30 48 30.58	4	9007	13767 S 4	SU	802
7 4	7 34 51.1517	1	21 34 22.861	30 13 8.99	4	9007	13767 S 5	SU	803
7 4	7 34 59.1520	1	21 33 50.955	29 37 37.44	4	9007	13767 S 6	SU	804
7 5	8 12 19.0030	1	22 25 40.269	58 51 3.65	4	9010	14263 S 6	VD	9015
7 5	8 12 19.1487	1	0 41 4.837	35 21 49.82	4	9001	16484 S 4	VD	9010
7 5	8 12 23.0029	1	22 24 52.447	58 30 38.93	4	9010	14263 S 7	VD	9016
7 5	8 12 27.1487	1	0 39 31.076	34 52 14.85	4	9001	16484 S 5	VD	194
7 5	8 12 35.0029	1	22 22 33.060	57 28 53.56	4	9010	14263 S 9	SU	743
7 5	8 12 35.1488	1	0 37 58.586	34 22 25.18	4	9001	16484 S 6	VD	9011
7 5	8 12 39.0030	1	22 21 48.335	57 8 7.88	4	9010	14263 S10	VD	9017
7 5	8 12 43.1487	1	0 36 27.371	33 52 26.85	4	9001	16484 S 7	VD	9012
7 5	8 12 47.0032	1	22 20 20.007	56 26 19.92	4	9010	14263 S12	VD	9018
7 5	8 12 51.0031	1	22 19 37.299	56 5 19.36	4	9010	14263 S13	VD	9019
7 5	8 12 51.1487	1	0 34 57.168	33 22 13.59	4	9001	16484 S 8	VD	9013
7 5	8 12 55.0033	1	22 18 54.629	55 44 9.66	4	9010	14263 S14	VD	9020
7 5	8 12 59.1487	1	0 33 28.186	32 51 44.33	4	9001	16484 S 9	VD	9014
7 5	8 15 31.1447	1	0 8 43.868	22 41 34.23	4	9001	16486 S 3	VD	9980
7 5	8 15 35.0051	1	21 57 1.555	40 34 50.02	4	9010	14264 S 5	VD	9986
7 5	8 15 39.0053	1	21 56 35.726	40 10 48.56	4	9010	14264 S 6	VD	9987
7 5	8 15 39.1448	1	0 7 35.561	22 8 7.46	4	9001	16486 S 4	VD	9981
7 5	8 15 43.0055	1	21 56 10.218	39 46 40.17	4	9010	14264 S 7	VD	9988
7 5	8 15 47.0053	1	21 55 45.176	39 22 30.34	4	9010	14264 S 8	VD	9989
7 5	8 15 47.1446	1	0 6 27.913	21 34 37.33	4	9001	16486 S 5	VD	9982
7 5	8 15 51.0055	1	21 55 20.229	38 58 18.83	4	9010	14264 S 9	VD	9990
7 5	8 15 55.1445	1	0 5 21.383	21 0 59.52	4	9001	16486 S 6	VD	9983
7 5	8 15 59.0060	1	21 54 30.923	38 9 45.13	4	9010	14264 S11	VD	9991
7 5	8 16 3.0058	1	21 54 6.732	37 45 26.83	4	9010	14264 S12	VD	9992
7 5	8 16 3.1444	1	0 4 15.682	20 27 17.84	4	9001	16486 S 7	VD	9984
7 5	8 16 11.1444	1	0 3 10.706	19 53 29.61	4	9001	16486 S 8	VD	9985
7 5	8 24 35.1571	1	20 22 24.530	44 16 11.33	4	9007	13786 S 6	GL	969
7 5	8 24 39.1131	1	21 18 41.088	-12 5 53.43	4	9010	14266 S 6	GL	9324
7 5	8 24 43.1130	1	21 18 28.219	-12 25 7.25	4	9010	14266 S 7	GL	9325
7 5	8 24 43.1471	1	20 4 39.563	9 23 43.72	4	9009	12162 S 5	SS	976
7 5	8 24 43.1504	1	23 15 27.730	-15 22 32.21	4	9001	16487 S 5	GL	962
7 5	8 24 43.1571	1	20 22 8.811	43 47 52.08	4	9007	13786 S 7	GL	970
7 5	8 24 47.1127	1	21 18 15.335	-12 44 12.97	4	9010	14266 S 8	GL	9326
7 5	8 24 47.1470	1	20 4 33.585	9 2 6.11	4	9009	12162 S 6	SS	977
7 5	8 24 51.1472	1	20 4 27.682	8 40 32.40	4	9009	12162 S 7	SS	978
7 5	8 24 51.1507	1	23 14 57.822	-15 52 30.74	4	9001	16487 S 6	GL	963
7 5	8 24 51.1568	1	20 21 53.091	43 19 20.24	4	9007	13786 S 8	GL	971
7 5	8 24 55.1125	1	21 17 49.643	-13 22 13.97	4	9010	14266 S10	GL	9327
7 5	8 24 55.1470	1	20 4 21.720	8 18 58.25	4	9009	12162 S 8	SS	979
7 5	8 24 59.1128	1	21 17 36.860	-13 41 4.66	4	9010	14266 S11	GL	9328
7 5	8 24 59.1507	1	23 14 28.152	-16 22 19.59	4	9001	16487 S 7	GL	964
7 5	8 24 59.1572	1	20 21 36.746	42 50 38.92	4	9007	13786 S 9	GL	972

Satellite 1961 Alpha Delta 1

5 July - 7 July 1964

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	URS.NO.
1964 7 5	8 25 3.1130	1	21 17 23.892	-13 59 54.93	9010	14266 S12	GL	9329
7 5	8 25 7.1133	1	21 17 11.000	-14 18 39.45	9010	14266 S13	GL	9330
7 5	8 25 7.1507	1	23 13 58.686	-16 52 3.21	9001	16487 S 8	GL	965
7 5	8 25 7.1569	1	20 21 20.711	42 21 47.10	9007	13786 S11	GL	973
7 5	8 25 15.1506	1	23 13 29.689	-17 21 35.34	9001	16487 S 9	GL	966
7 5	8 25 15.1570	1	20 21 4.355	41 52 42.94	9007	13786 S11	GL	974
7 5	8 25 23.1506	1	23 13 0.962	-17 50 58.77	9001	16487 S10	GL	967
7 5	8 25 23.1571	1	20 20 47.903	41 23 30.30	9007	13786 S12	GL	975
7 5	8 25 31.1541	1	23 12 32.426	-18 20 18.58	9001	16487 S11	GL	968
7 6	9 9 55.1458	1	18 58 12.190	44 38 26.22	9009	12180 S 3	VO	9412
7 6	9 9 55.1526	1	23 12 53.204	26 46 57.05	9001	16513 S 6	VO	9426
7 6	9 10 3.1458	1	18 58 55.842	44 6 41.57	9009	12180 S 4	VO	9413
7 6	9 10 3.1526	1	23 11 42.875	26 3 30.22	9001	16513 S 7	VO	9407
7 6	9 10 11.1460	1	18 59 37.996	43 34 55.48	9009	12180 S 5	VO	9414
7 6	9 10 11.1525	1	23 10 33.407	25 20 1.29	9001	16513 S 8	VO	9408
7 6	9 10 19.1459	1	19 0 18.976	43 2 58.92	9009	12180 S 6	VO	9415
7 6	9 10 19.1525	1	23 9 25.519	24 36 29.17	9001	16513 S 9	VO	9409
7 6	9 10 27.1461	1	19 0 59.037	42 30 53.73	9009	12180 S 7	VO	9416
7 6	9 10 27.1526	1	23 8 18.457	23 52 51.17	9001	16513 S11	VO	9410
7 6	9 10 35.1464	1	19 1 38.237	41 58 41.34	9009	12180 S 8	VO	201
7 6	9 10 35.1525	1	23 7 12.619	23 9 12.17	9001	16513 S11	VO	9411
7 6	9 21 31.1506	1	22 11 38.953	-28 11 11.78	9001	16516 S 8	LI	9131
7 6	9 21 39.1505	1	22 11 11.640	-28 39 39.66	9001	16516 S 9	LI	9132
7 6	9 21 47.1503	1	22 10 44.794	-29 7 51.48	9001	16516 S10	LI	9133
7 6	9 21 55.1504	1	22 10 17.884	-29 35 53.65	9001	16516 S11	LI	9134
7 6	9 21 55.1606	1	19 27 5.063	26 2 57.35	9007	13814 S 4	LI	9136
7 6	9 22 3.1522	1	22 9 51.202	-30 3 42.04	9001	16516 S12	LI	9135
7 6	9 22 11.1620	1	19 26 45.420	25 5 24.98	9007	13814 S 5	LI	9355
7 6	9 22 27.1623	1	19 26 24.516	24 7 27.77	9007	13814 S 6	LI	9138
7 6	9 22 43.1632	1	19 26 2.224	23 9 9.97	9007	13814 S 7	LI	9139
7 6	9 22 59.1645	1	19 25 38.551	22 10 37.10	9007	13814 S 8	LI	9140
7 7	7 28 15.1508	1	21 20 28.064	2 19 47.99	9009	12195 S 5	DM	9124
7 7	7 28 19.1507	1	21 20 12.366	1 55 34.18	9009	12195 S 6	DM	9125
7 7	7 28 19.1593	1	21 39 0.858	41 26 32.35	9007	13828 S 3	DM	200
7 7	7 28 23.1537	1	21 19 56.711	1 31 23.26	9009	12195 S 7	DM	9126
7 7	7 28 27.1509	1	21 19 41.090	1 7 11.50	9009	12195 S 8	DM	9127
7 7	7 28 27.1596	1	21 38 28.092	40 56 23.95	9007	13828 S 4	DM	9120
7 7	7 28 31.1509	1	21 19 25.447	0 43 3.95	9009	12195 S 9	DM	9128
7 7	7 28 35.1508	1	21 19 9.756	0 19 1.34	9009	12195 S11	DM	9129
7 7	7 28 35.1595	1	21 37 55.426	40 26 0.21	9007	13828 S 5	DM	9121
7 7	7 28 39.1507	1	21 18 54.308	- 0 4 57.74	9009	12195 S11	DM	9130
7 7	7 28 43.1597	1	21 37 22.649	39 55 21.56	9007	13828 S 6	DM	9122
7 7	7 28 51.1598	1	21 36 50.195	39 24 29.21	9007	13828 S 7	DM	9123
7 7	7 31 39.1602	1	21 25 43.233	27 33 35.95	9007	13829 S 3	DM	9296
7 7	7 31 47.1602	1	21 25 11.740	26 56 37.96	9007	13829 S 4	DM	9297

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1957.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964	7 7 7	7 31 55.1605	1	21 24 40.254	26 19 24.12	4	9007	13829 S 5	DM 9298
	7 7 7	7 32 1.1605	1	21 24 8.437	25 41 47.79	4	9007	13829 S 6	DM 9299
	7 7 7	7 32 11.1539	1	21 5 4.788	-19 52 7.66	4	9009	12196 S13	DM 9303
	7 7 7	7 32 11.1604	1	21 23 36.842	25 4 1.59	4	9007	13829 S 7	DM 9300
	7 7 7	7 32 15.1538	1	21 4 48.871	-20 10 28.05	4	9009	12196 S14	DM 9304
	7 7 7	7 32 19.1536	1	21 4 32.865	-20 30 43.73	4	9009	12196 S15	DM 9305
	7 7 7	7 32 15.1654	1	21 23 5.158	24 25 57.54	4	9007	13829 S 8	DM 9301
	7 7 7	7 32 23.1536	1	21 4 16.655	-20 50 57.21	4	9009	12196 S16	DM 9306
	7 7 7	7 32 27.1536	1	21 4 0.582	-21 11 7.01	4	9009	12196 S17	DM 9307
	7 7 7	7 32 27.1604	1	21 22 33.369	23 47 31.24	4	9007	13829 S 9	DM 9302
	7 7 7	7 32 31.1536	1	21 3 44.476	-21 31 7.30	4	9009	12196 S18	DM 9308
	7 7 7	7 32 35.1539	1	21 3 28.376	-21 51 6.86	4	9009	12196 S19	DM 9309
	7 10	7 11 47.0481	1	22 31 26.390	69 17 50.96	4	9009	12256 S 5	VD 9692
	7 10	7 11 47.1382	1	23 53 48.332	47 29 23.26	4	9010	1434 S 5	VD 9696
	7 10	7 11 55.5481	1	22 29 33.319	68 48 54.34	4	9009	12256 S 6	VD 9693
	7 10	7 11 55.1392	1	23 51 55.562	46 52 53.40	4	9010	1434 S 6	VD 9697
	7 10	7 12 3.0480	1	22 27 44.047	68 19 34.94	4	9009	12256 S 7	VD 9694
	7 10	7 12 3.1398	1	23 50 4.864	46 16 3.32	4	9010	1434 S 7	VD 9698
	7 10	7 12 11.0484	1	22 25 57.853	67 49 59.69	4	9009	12256 S 8	VD 9695
	7 10	7 12 11.1408	1	23 48 16.321	45 38 49.34	4	9010	1434 S 8	VD 9699
	7 10	7 12 19.1411	1	23 46 29.823	45 1 16.50	4	9010	1434 S 9	VD 9700
	7 10	7 24 35.1817	1	22 20 52.238	-19 1 6.43	4	9010	1434 S 5	RO 9088
	7 10	7 24 43.0594	1	21 12 40.672	0 53 9.74	4	9009	12258 S 6	RO 9082
	7 10	7 24 43.1830	1	22 20 20.822	-19 36 14.05	4	9010	1434 S 6	RO 9089
	7 10	7 24 51.0594	1	21 12 11.079	0 5 25.39	4	9009	12258 S 7	RO 9083
	7 10	7 24 51.1794	1	21 31 9.733	40 11 49.11	4	9007	13878 S 6	RO 9078
	7 10	7 24 51.1835	1	22 19 49.679	-20 11 2.68	4	9010	1434 S 7	RO 9090
	7 10	7 24 59.0595	1	21 11 41.492	-0 42 1.12	4	9009	12258 S 8	RO 9084
	7 10	7 24 59.1836	1	22 19 18.487	-20 45 36.18	4	9010	1434 S 8	RO 9091
	7 10	7 25 7.0597	1	21 11 11.899	-1 29 25.32	4	9009	12258 S 9	RO 9085
	7 10	7 25 7.1839	1	22 18 47.674	-21 19 51.55	4	9010	1434 S 9	RO 9092
	7 10	7 25 15.0597	1	21 10 42.249	-2 16 34.56	4	9009	12258 S10	RO 9086
	7 10	7 25 15.1842	1	22 18 17.115	-21 53 57.22	4	9010	1434 S11	RO 9093
	7 10	7 25 23.0597	1	21 10 12.676	-3 3 27.14	4	9009	12258 S11	RO 9087
	7 10	7 25 23.1799	1	21 29 4.589	38 6 47.83	4	9007	13878 S 8	RO 9079
	7 10	7 25 23.1839	1	22 17 46.731	-22 27 43.26	4	9010	1434 S11	RO 9094
	7 10	7 25 39.1797	1	21 28 2.657	37 2 46.44	4	9007	13878 S 9	RO 9080
	7 10	7 25 55.1803	1	21 27 0.695	35 57 39.41	4	9007	13878 S10	RO 9081
	7 10	7 26 11.1804	1	21 25 58.760	34 51 27.67	4	9007	13878 S11	RO 203
	7 11	8 4 26.9742	1	22 2 18.910	60 46 28.44	4	9010	14374 S 3	VD 9101
	7 11	8 4 27.1568	1	0 44 23.185	38 15 51.64	4	9001	16584 S 3	VD 9095
	7 11	8 4 34.9736	1	22 1 6.056	60 4 57.63	4	9010	14374 S 4	VD 9102
	7 11	8 4 35.1568	1	0 42 41.219	37 45 29.45	4	9001	16584 S 4	VD 9096
	7 11	8 4 42.9722	1	21 59 55.519	59 23 8.89	4	9010	14374 S 5	VD 9103
	7 11	8 4 43.1571	1	0 41 0.216	37 14 52.45	4	9001	16584 S 5	VD 9097

DATE			TIME (A-L)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.	
Y	M	D	H	M	S	MS	H	M	S	D	M	S					
1964	7	11	8	4	50.9710	1	21	58	47.147	58	40	59.25	4	9010	14374 S 6	VD	9104
	7	11	8	4	51.1569	1	0	39	21.025	36	44	3.83	4	9001	16584 S 6	VD	9098
	7	11	8	4	58.9695	1	21	57	41.212	57	58	26.73	4	9010	14374 S 7	VD	9105
	7	11	8	4	59.1570	1	0	37	43.035	36	12	58.64	4	9001	16584 S 7	VD	9099
	7	11	8	5	6.9683	1	21	56	36.818	57	15	34.69	4	9010	14374 S 8	VD	9106
	7	11	8	5	14.9673	1	21	55	34.664	56	32	27.03	4	9010	14374 S 9	VD	9107
	7	11	8	5	15.1570	1	0	34	31.085	35	10	4.61	4	9001	16584 S 9	VD	9100
	7	11	8	7	54.9414	1	21	39	33.169	41	9	29.79	4	9010	14375 S 2	VD	9879
	7	11	8	7	55.1576	1	0	7	0.837	23	59	1.35	4	9001	16585 S 4	VD	9872
	7	11	8	8	2.9404	1	21	34	55.216	40	20	56.81	4	9010	14375 S 3	VD	9880
	7	11	8	8	3.1577	1	0	5	49.625	23	23	56.06	4	9001	16585 S 5	VD	9873
	7	11	8	8	10.9401	1	21	38	18.098	39	32	13.99	4	9010	14375 S 4	VD	9881
	7	11	8	8	11.1579	1	0	4	39.547	22	48	43.31	4	9001	16585 S 6	VD	9874
	7	11	8	8	26.9342	1	21	37	5.171	37	54	19.14	4	9010	14375 S 6	VD	9882
	7	11	8	8	27.1579	1	0	2	21.765	21	38	3.78	4	9001	16585 S 8	VD	9875
	7	11	8	8	34.9376	1	21	36	29.740	37	5	7.45	4	9010	14375 S 7	VD	9883
	7	11	8	8	43.1579	1	0	0	7.799	20	27	2.03	4	9001	16585 S 10	VD	9876
	7	11	8	8	50.9366	1	21	35	20.591	35	26	26.89	4	9010	14375 S 9	VD	9884
	7	11	8	8	51.1578	1	23	59	2.384	19	51	27.70	4	9001	16585 S 11	VD	9877
	7	11	8	8	58.9359	1	21	34	46.875	34	36	59.30	4	9010	14375 S 10	VD	9895
	7	11	8	8	59.1578	1	23	57	57.558	19	15	45.81	4	9001	16585 S 12	VD	9878
	7	11	8	17	7.1572	1	23	12	4.963	-15	40	50.35	4	9001	16587 S 2	LT	9198
	7	11	8	17	14.9223	1	21	8	17.624	-12	35	0.62	4	9010	14377 S 3	LT	9584
	7	11	8	17	15.1573	1	23	11	33.938	-16	11	36.24	4	9001	16587 S 3	LT	9199
	7	11	8	17	15.1580	1	19	57	23.696	8	31	46.33	4	9009	12267 S 4	LT	9204
	7	11	8	17	15.1654	1	20	13	32.717	42	16	2.22	4	9007	13896 S 8	LT	9577
	7	11	8	17	22.9221	1	21	7	54.974	-13	12	17.22	4	9010	14377 S 4	LT	9585
	7	11	8	17	23.1573	1	23	11	3.380	-16	42	13.38	4	9001	16587 S 4	LT	9200
	7	11	8	17	23.1582	1	19	57	15.273	7	50	45.30	4	9009	12267 S 5	LT	9205
	7	11	8	17	23.1654	1	20	13	20.368	41	47	34.69	4	9007	13896 S 9	LT	9578
	7	11	8	17	30.9220	1	21	7	32.354	-13	49	15.68	4	9010	14377 S 5	LT	9586
	7	11	8	17	31.1573	1	23	10	32.973	-17	12	37.27	4	9001	16587 S 5	LT	9201
	7	11	8	17	31.1582	1	19	57	6.341	7	9	47.76	4	9009	12267 S 6	LT	9206
	7	11	8	17	31.1655	1	20	13	7.997	41	18	56.63	4	9007	13896 S 10	LT	9579
	7	11	8	17	38.9224	1	21	7	9.646	-14	25	56.12	4	9010	14377 S 6	LT	9587
	7	11	8	17	39.1573	1	23	10	3.072	-17	42	57.65	4	9001	16587 S 6	LT	9202
	7	11	8	17	39.1583	1	19	56	57.068	6	29	3.31	4	9009	12267 S 7	LT	9207
	7	11	8	17	39.1655	1	20	12	55.389	40	50	15.01	4	9007	13896 S 11	LT	9580
	7	11	8	17	46.9390	1	21	6	47.045	-15	2	20.77	4	9010	14377 S 7	LT	9588
	7	11	8	17	47.1573	1	23	9	33.284	-18	13	3.52	4	9001	16587 S 7	LT	9203
	7	11	8	17	47.1581	1	19	56	47.677	5	48	17.93	4	9009	12267 S 8	LT	9208
	7	11	8	17	47.1657	1	20	12	42.399	40	21	18.43	4	9007	13896 S 12	LT	9581
	7	11	8	17	54.9555	1	21	6	24.130	-15	38	28.09	4	9010	14377 S 8	LT	9589
	7	11	8	17	55.1584	1	19	56	37.904	5	7	46.59	4	9009	12267 S 9	LT	9209
	7	11	8	17	55.1656	1	20	12	29.244	39	52	10.41	4	9007	13896 S 13	LT	202

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 7 11	8 18 2.9559	1	21 6 1.649	-16 14 15.88	9010	14377 S 9	LT	9590
7 11	8 18 3.1658	1	20 12 15.597	39 22 58.10	9007	13896 S14	LT	9583
7 11	10 56 3.1522	1	0 34 17.605	25 25 38.15	9012	14359 S 3	FN	9113
7 11	10 56 11.1522	1	0 33 18.697	24 56 25.27	9012	14353 S 4	FN	9114
7 11	10 56 11.1601	1	20 14 26.379	15 4 46.20	9001	16597 S 3	BA	9108
7 11	10 56 19.1525	1	0 32 20.715	24 27 2.81	9012	14359 S 5	FN	9115
7 11	10 56 27.1526	1	0 31 23.295	23 57 32.14	9012	14359 S 6	FN	9116
7 11	10 56 27.1599	1	20 14 39.550	13 42 53.27	9001	16597 S 5	BA	9109
7 11	10 56 35.1526	1	0 30 26.559	23 27 53.97	9012	14353 S 7	FN	9117
7 11	10 56 35.1598	1	20 14 45.534	13 2 19.77	9001	16597 S 6	BA	9110
7 11	10 56 43.1527	1	0 29 30.334	22 58 3.64	9012	14359 S 8	FN	9118
7 11	10 56 43.1598	1	20 14 51.183	12 21 59.01	9001	16597 S 7	BA	9111
7 11	10 56 51.1526	1	0 28 34.948	22 28 7.99	9012	14359 S 9	FN	9119
7 11	10 56 51.1598	1	20 14 56.430	11 41 50.48	9001	16597 S 8	BA	9112
7 12	6 27 46.8511	1	22 50 23.841	35 17 16.17	9007	13912 S 4	RO	458
7 12	6 27 46.9219	1	23 15 21.929	-20 47 13.83	9010	14397 S 3	RO	465
7 12	6 27 54.8510	1	22 49 50.228	34 47 23.57	9007	13912 S 5	RO	459
7 12	6 27 54.9208	1	23 14 55.202	-21 18 4.86	9010	14397 S 4	RO	466
7 12	6 28 2.8509	1	22 49 16.989	34 17 15.03	9007	13912 S 6	RO	460
7 12	6 28 2.9200	1	23 14 28.701	-21 48 46.01	9010	14397 S 5	RO	467
7 12	6 28 10.8509	1	22 48 43.779	33 46 51.00	9007	13912 S 7	RO	461
7 12	6 28 10.9193	1	23 14 2.475	-22 19 18.31	9010	14397 S 6	RO	468
7 12	6 28 18.8510	1	22 48 11.021	33 16 8.32	9007	13912 S 8	RO	462
7 12	6 28 18.9193	1	23 13 36.455	-22 49 41.79	9010	14397 S 7	RO	469
7 12	6 28 26.8511	1	22 47 38.394	32 45 12.28	9007	13912 S 9	RO	463
7 12	6 28 26.9178	1	23 13 10.878	-23 19 53.20	9010	14397 S 8	RO	756
7 12	6 28 34.8511	1	22 47 6.074	32 13 59.93	9007	13912 S10	RO	755
7 12	6 28 34.9165	1	23 12 45.425	-23 51 0.69	9010	14397 S 9	RO	470
7 12	9 6 7.6583	1	20 8 22.907	13 12 27.03	9010	14404 S 4	WC	640
7 12	9 6 11.1568	1	19 12 17.702	27 23 18.89	9009	12286 S 3	WI	635
7 12	9 6 15.6593	1	20 8 26.738	12 31 28.73	9010	14404 S 5	WC	641
7 12	9 6 19.1565	1	19 12 37.395	26 50 36.89	9009	12286 S 4	WC	636
7 12	9 6 23.6595	1	20 8 30.361	11 50 44.67	9010	14404 S 6	HP	642
7 12	9 6 27.1566	1	19 12 57.018	26 17 49.65	9009	12286 S 5	WC	637
7 12	9 6 31.6600	1	20 8 33.494	11 10 10.00	9010	14404 S 7	HP	643
7 12	9 6 35.1564	1	19 13 15.574	25 45 10.36	9009	12286 S 6	WC	638
7 12	9 6 39.6609	1	20 8 36.310	10 29 47.99	9010	14404 S 8	JW	644
7 12	9 6 43.1566	1	19 13 33.801	25 12 20.49	9009	12286 S 7	WC	639
7 12	9 6 47.6619	1	20 8 38.772	9 49 35.73	9010	14404 S 9	JW	645
7 13	7 20 3.1893	1	21 28 31.824	43 53 45.16	9007	13932 S 3	OM	759
7 13	7 20 11.1649	1	21 8 40.770	5 25 19.50	9009	12305 S 3	YK	761
7 13	7 20 19.1650	1	21 8 13.087	4 37 14.30	9009	12305 S 4	YK	256
7 13	7 20 19.1890	1	21 27 31.137	42 55 7.41	9007	13932 S 4	DM	253
7 13	7 20 27.1647	1	21 7 45.225	3 49 16.15	9009	12305 S 5	YK	257
7 13	7 20 35.1649	1	21 7 17.607	3 1 23.71	9009	12305 S 6	YK	258

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS.NO.
1964	7 13	7 20 35.1888	21 26 30.584	41 55 35.81	9007	13932 S 5	DM	760
	7 13	7 20 43.1651	21 6 49.741	2 13 42.21	9009	12305 S 7	YK	259
	7 13	7 20 51.1990	21 25 30.512	40 55 7.14	9007	13932 S 6	DM	255
	7 14	8 0 43.1656	0 43 1.253	39 0 53.90	9001	16620 S 6	JW	660
	7 14	8 0 46.1529	19 17 36.185	67 28 30.84	9009	12323 S 3	TA	1264
	7 14	8 0 50.1532	19 18 22.914	67 14 17.79	9009	12323 S 4	TA	1265
	7 14	8 0 51.1658	0 41 16.696	38 29 46.43	9001	16620 S 7	JW	661
	7 14	8 0 54.1530	19 19 8.759	67 0 7.16	9009	12323 S 5	WC	669
	7 14	8 0 58.1530	19 19 53.522	66 45 43.44	9009	12323 S 6	WC	670
	7 14	8 0 59.1227	21 46 19.697	59 3 6.53	9010	14433 S 8	WC	1954
	7 14	8 0 59.1657	0 39 33.867	37 58 22.48	9001	16620 S 8	JW	662
	7 14	8 1 2.1531	19 20 37.617	66 31 23.50	9009	12323 S 7	WC	671
	7 14	8 1 6.1531	19 21 20.864	66 16 56.68	9009	12323 S 8	WC	672
	7 14	8 1 7.1239	21 45 27.502	58 20 20.01	9010	14433 S 9	WC	674
	7 14	8 1 7.1656	0 37 52.438	37 26 44.92	9001	16620 S 9	JW	663
	7 14	8 1 10.1533	19 22 3.143	66 2 21.00	9009	12323 S 9	WC	673
	7 14	8 1 15.1256	21 44 36.999	57 37 12.47	9010	14433 S10	WC	675
	7 14	8 1 15.1655	0 36 12.533	36 54 52.14	9001	16620 S10	TA	664
	7 14	8 1 23.1267	21 43 47.859	56 53 46.78	9010	14433 S11	JW	676
	7 14	8 1 23.1654	0 34 34.162	36 22 44.69	9001	16620 S11	TA	665
	7 14	8 1 31.1284	21 42 59.609	56 10 3.69	9010	14433 S12	JW	677
	7 14	8 1 31.1655	0 32 56.916	35 50 22.18	9001	16620 S12	TA	1263
	7 14	8 1 39.1295	21 42 13.256	55 25 59.41	9010	14433 S13	HP	678
	7 14	8 5 7.1592	21 27 1.803	34 56 37.23	9010	14434 S 4	EM	653
	7 14	8 5 7.1718	23 56 58.335	20 7 36.05	9001	16622 S 4	AC	1697
	7 14	8 5 15.1599	21 26 34.298	34 7 8.07	9010	14434 S 5	EM	654
	7 14	8 5 15.1719	23 55 52.944	19 31 4.94	9001	16622 S 5	AC	647
	7 14	8 5 23.1612	21 26 7.066	33 17 34.23	9010	14434 S 6	EM	655
	7 14	8 5 23.1723	23 54 48.428	18 54 25.84	9001	16622 S 6	AC	648
	7 14	8 5 31.1616	21 25 40.204	32 27 58.71	9010	14434 S 7	EM	656
	7 14	8 5 31.1720	23 53 44.866	18 17 45.22	9001	16622 S 7	AC	649
	7 14	8 5 39.1618	21 25 13.699	31 38 21.62	9010	14434 S 8	JV	1262
	7 14	8 5 39.1721	23 52 42.123	17 41 4.33	9001	16622 S 8	AC	650
	7 14	8 5 47.1629	21 24 47.508	30 48 41.20	9010	14434 S 9	JV	658
	7 14	8 5 47.1720	23 51 40.305	17 4 17.45	9001	16622 S 9	EM	651
	7 14	8 5 55.1641	21 24 21.522	29 58 59.16	9010	14434 S10	JV	1698
	7 14	8 5 55.1721	23 50 39.028	16 27 30.89	9001	16622 S10	EM	652
	7 14	8 13 7.0765	21 4 32.322	-10 45 52.69	9010	14435 S 3	LT	451
	7 14	8 13 7.1621	23 13 48.584	-15 1 41.30	9001	16623 S 3	LT	169
	7 14	8 13 7.1648	20 10 23.123	42 52 11.80	9007	13950 S 3	LT	176
	7 14	8 13 15.0772	21 4 11.501	-11 23 36.33	9010	14435 S 4	LT	452
	7 14	8 13 15.1623	23 10 16.768	-15 33 6.15	9001	16623 S 4	LT	177
	7 14	8 13 15.1649	20 10 13.433	42 24 17.05	9007	13950 S 4	LT	177
	7 14	8 13 23.0787	21 3 50.512	-12 1 3.67	9010	14435 S 5	LT	453
	7 14	8 13 23.1622	23 9 45.251	-16 4 17.73	9001	16623 S 5	LT	171

Satellite 1961 Alpha Delta 1

14 July - 16 July 1964

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964	7 14	8 13 23.1646	20 10 3.391	41 56 17.55	4	9007	13950 S 5	LT	178
	7 14	8 13 31.0804	21 3 29.596	-12 38 8.79	4	9010	14435 S 6	LT	454
	7 14	8 13 31.1621	23 9 13.879	-16 35 19.72	4	9001	16623 S 6	LT	172
	7 14	8 13 31.1647	21 9 52.902	41 28 9.71	4	9007	13950 S 6	LT	179
	7 14	8 13 39.0827	20 3 8.464	-13 14 56.81	4	9010	14435 S 7	LT	455
	7 14	8 13 39.1621	23 8 43.095	-17 6 13.29	4	9001	16623 S 7	LT	173
	7 14	8 13 39.1647	20 9 42.197	40 59 46.84	4	9007	13950 S 7	LT	180
	7 14	8 13 47.0846	21 2 47.347	-13 51 27.95	4	9010	14435 S 8	LT	456
	7 14	8 13 47.1617	23 8 12.500	-17 36 56.22	4	9001	16623 S 8	LT	174
	7 14	8 13 47.1648	20 9 31.545	40 31 18.95	4	9007	13950 S 8	LT	181
	7 14	8 13 55.0855	21 2 26.354	-14 27 36.49	4	9010	14435 S 9	LT	457
	7 14	8 13 55.1620	23 7 42.328	-18 7 30.88	4	9001	16623 S 9	LT	175
	7 14	8 13 55.1649	20 9 20.571	40 2 35.00	4	9007	13950 S 9	LT	182
	7 16	7 3 31.1686	0 56 47.470	29 15 47.57	4	9001	16667 S 2	BA	58
	7 16	7 3 47.1690	0 54 15.820	28 22 58.27	4	9001	16667 S 3	BA	59
	7 16	7 4 3.1562	21 57 59.512	70 12 13.71	4	9009	12354 S 9	SU	64
	7 16	7 4 3.1690	0 51 47.362	27 29 33.07	4	9001	16667 S 4	BA	60
	7 16	7 4 11.1562	21 56 42.040	69 42 10.43	4	9009	12354 S 10	SU	65
	7 16	7 4 11.2644	23 41 5.072	49 31 49.42	4	9010	14467 S 5	BA	71
	7 16	7 4 19.1563	21 55 27.795	69 11 46.20	4	9009	12354 S 11	SU	66
	7 16	7 4 19.1690	0 49 22.768	26 35 37.37	4	9001	16667 S 5	BA	61
	7 16	7 4 19.2644	23 39 12.923	48 53 39.66	4	9010	14467 S 6	BA	754
	7 16	7 4 27.1565	21 54 10.380	68 41 10.89	4	9009	12354 S 12	SU	67
	7 16	7 4 27.2653	23 37 23.116	48 15 6.23	4	9010	14467 S 7	BA	73
	7 16	7 4 35.1566	21 53 6.234	68 10 15.98	4	9009	12354 S 13	SU	68
	7 16	7 4 35.1689	0 47 1.161	25 41 8.28	4	9001	16667 S 6	BA	62
	7 16	7 4 35.2667	23 35 35.605	47 36 5.52	4	9010	14467 S 8	BA	74
	7 16	7 4 43.1568	21 51 58.456	67 39 7.39	4	9009	12354 S 14	SU	69
	7 16	7 4 43.2686	23 33 50.304	46 56 49.25	4	9010	14467 S 9	BA	75
	7 16	7 4 51.1570	21 50 52.873	67 7 40.52	4	9009	12354 S 15	SU	70
	7 16	7 4 51.1685	0 44 42.823	24 46 7.11	4	9001	16667 S 7	BA	63
	7 16	7 4 51.2709	23 32 7.268	46 17 9.80	4	9010	14467 S 10	BA	76
	7 16	7 7 15.1592	0 26 13.829	16 14 49.70	4	9001	16668 S 4	PK	9640
	7 16	7 7 15.1612	21 35 36.397	56 51 58.51	4	9009	12355 S 4	FN	9646
	7 16	7 7 15.2927	23 6 25.639	33 31 4.46	4	9010	14468 S 3	YK	9653
	7 16	7 7 23.1612	21 34 55.989	56 14 54.67	4	9009	12355 S 5	FN	9647
	7 16	7 7 23.2946	23 5 14.126	32 46 2.59	4	9010	14468 S 4	YK	193
	7 16	7 7 31.1594	0 24 24.180	15 16 35.48	4	9001	16668 S 5	PK	9641
	7 16	7 7 31.1614	21 34 15.738	55 37 33.09	4	9009	12355 S 6	FN	9648
	7 16	7 7 31.2958	23 4 4.137	32 1 4.57	4	9010	14468 S 5	YK	9654
	7 16	7 7 39.1613	21 33 36.552	54 59 55.25	4	9009	12355 S 7	FN	9649
	7 16	7 7 39.2964	23 2 55.345	31 15 44.13	4	9010	14468 S 6	YK	9655
	7 16	7 7 47.1592	0 22 37.465	14 18 10.86	4	9001	16668 S 6	YK	9642
	7 16	7 7 47.1616	21 32 57.992	54 21 54.87	4	9009	12355 S 8	FN	9650
	7 16	7 7 47.2968	23 1 47.737	30 30 17.71	4	9010	14468 S 7	YK	9656

Satellite 1961 Alpha Delta 1

16 July - 18 July 1964

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) RMS D M S	STATION	FRAME NO.	MS	CBS-ND.
1964	7 16	7 55.1617	21 32 20.024	53 43 39.23	9009	12355 S 9	FN	9651
	7 16	7 55.2970	23 0 41.239	29 44 43.09	9010	14468 S 8	YK	9657
	7 16	7 8 3.1591	0 20 52.829	13 19 36.10	9001	16668 S 7	YK	9643
	7 16	7 8 3.1619	21 31 42.904	53 5 8.26	9009	12355 S 10	FN	9652
	7 16	7 8 3.2982	22 59 35.774	28 58 58.89	9010	14468 S 9	YK	9658
	7 16	7 8 15.1591	0 19 10.514	12 20 52.69	9001	16668 S 8	YK	306
	7 16	7 8 35.1585	0 17 30.713	11 22 5.03	9001	16668 S 9	YK	749
	7 16	7 16 19.1617	21 2 26.623	5 55 36.28	9009	12357 S 2	JW	420
	7 16	7 16 23.1616	21 2 13.581	5 31 41.94	9009	12357 S 3	JW	421
	7 16	7 16 27.1616	21 2 0.841	5 7 56.15	9009	12357 S 4	JW	422
	7 16	7 16 27.1706	21 21 20.564	43 3 31.92	9007	13978 S 3	WI	413
	7 16	7 16 31.1616	21 1 47.853	4 44 8.43	9009	12357 S 5	TA	423
	7 16	7 16 35.1617	21 1 35.076	4 20 26.73	9009	12357 S 6	TA	424
	7 16	7 16 35.1710	21 20 52.227	42 33 54.84	9007	13978 S 4	WI	414
	7 16	7 16 39.1617	21 1 22.229	3 56 45.12	9009	12357 S 7	AM	425
	7 16	7 16 43.1618	21 1 9.390	3 33 7.39	9009	12357 S 8	AM	426
	7 16	7 16 43.1708	21 20 23.631	42 4 2.33	9007	13978 S 5	WI	415
	7 16	7 16 51.1708	21 19 55.182	41 34 0.30	9007	13978 S 6	WI	416
	7 16	7 16 59.1705	21 19 26.609	41 3 40.35	9007	13978 S 7	JW	417
	7 16	7 17 7.1705	21 18 58.193	40 33 6.28	9007	13978 S 8	JW	418
	7 16	7 17 15.1708	21 18 29.709	40 2 21.20	9007	13978 S 9	JW	419
	7 17	8 10 43.1876	20 5 29.295	37 18 30.85	9007	13997 S 2	AC	1331
	7 17	8 10 51.1783	23 2 38.652	-21 3 2.63	9001	16697 S 2	AM	1326
	7 17	8 10 59.1781	23 2 10.049	-21 32 48.13	9001	16697 S 3	AM	1327
	7 17	8 10 59.1875	20 5 6.991	36 19 50.34	9007	13997 S 3	AC	1332
	7 17	8 11 15.1878	20 4 43.336	35 20 36.67	9007	13997 S 4	RD	1333
	7 17	8 11 23.1775	23 0 45.626	-23 0 54.09	9001	16697 S 6	WC	1355
	7 17	8 11 31.1771	23 0 17.848	-23 29 56.93	9001	16697 S 7	WC	1328
	7 17	8 11 31.1884	20 4 18.462	34 20 53.02	9007	13997 S 5	RD	1334
	7 17	8 11 39.1769	22 59 50.412	-23 58 47.07	9001	16697 S 8	WC	1329
	7 17	8 11 47.1766	22 59 23.251	-24 27 28.07	9001	16697 S 9	JW	1330
	7 17	8 11 47.1888	20 3 52.428	33 20 26.97	9007	13997 S 6	RD	1335
	7 17	8 12 3.1899	20 3 25.386	32 19 26.72	9007	13997 S 7	RD	1336
	7 17	8 12 19.1749	20 2 57.415	31 18 1.60	9007	13997 S 8	RD	1337
	7 18	22 42 6.5780	19 25 49.228	37 56 27.90	9006	13464 S 4	VP	679
	7 18	22 42 10.9451	22 21 49.140	50 21 50.28	9008	18384 S 3	YK	686
	7 18	22 42 14.5782	19 26 38.692	37 19 7.61	9006	13464 S 5	VP	680
	7 18	22 42 18.9453	22 20 39.738	49 36 3.42	9008	18384 S 4	YK	687
	7 18	22 42 22.5781	19 27 26.567	36 41 47.85	9006	13464 S 6	VP	681
	7 18	22 42 30.5784	19 28 13.109	36 4 25.51	9006	13464 S 7	VP	682
	7 18	22 42 34.9457	22 18 26.107	48 3 38.82	9008	18384 S 6	VP	688
	7 18	22 42 38.5783	19 28 58.318	35 27 1.18	9006	13464 S 8	VP	683
	7 18	22 42 42.9461	22 17 22.021	47 17 4.70	9008	18384 S 7	VP	689
	7 18	22 42 46.5786	19 29 42.599	34 49 34.32	9006	13464 S 9	VP	684
	7 18	22 42 50.9463	22 16 19.237	46 30 12.54	9008	18384 S 8	VP	690

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	CBS. NO.
1964 7 18	22 42 54.5790	1	19 37 25.568	34 12 12.13	4	9006	13464 S10	VP	685
7 19	7 12 3.1723	1	21 17 7.801	45 3 46.28	4	9007	14021 S 4 DK		427
7 19	7 12 11.1712	1	20 57 15.905	7 58 30.19	4	9009	12402 S 3 WI		433
7 19	7 12 11.1719	1	21 16 40.862	44 35 3.90	4	9007	14021 S 5 DK		428
7 19	7 12 19.1713	1	20 56 52.642	7 11 12.32	4	9009	12402 S 4 WI		434
7 19	7 12 19.1725	1	21 16 13.881	44 6 9.01	4	9007	14021 S 6 DK		429
7 19	7 12 27.1713	1	20 56 29.158	6 24 1.56	4	9009	12402 S 5 WI		435
7 19	7 12 27.1722	1	21 15 47.176	43 37 1.67	4	9007	14021 S 7 DK		430
7 19	7 12 35.1713	1	20 56 5.588	5 37 5.72	4	9009	12402 S 6 WI		436
7 19	7 12 35.1720	1	21 15 20.321	43 7 40.27	4	9007	14021 S 8 DK		431
7 19	7 12 43.1725	1	21 14 53.680	42 38 6.06	4	9007	14021 S 9 DK		432
7 20	7 52 35.1676	1	0 48 20.504	43 11 33.99	4	9001	16733 S 7 SU		9041
7 20	7 52 35.3182	1	21 23 23.303	62 50 18.82	4	9010	14510 S 5 SU		9034
7 20	7 52 43.1676	1	0 46 23.416	42 40 17.76	4	9001	16733 S 8 SU		9042
7 20	7 52 43.3191	1	21 23 0.519	62 8 47.75	4	9010	14510 S 6 SU		9035
7 20	7 52 51.1676	1	0 44 27.941	42 8 43.58	4	9001	16733 S 9 SU		9043
7 20	7 52 51.3186	1	21 22 35.911	61 27 0.86	4	9010	14510 S 7 SU		9036
7 20	7 52 59.1676	1	0 42 34.244	41 36 53.81	4	9001	16733 S10 SU		9044
7 20	7 52 59.3179	1	21 22 11.893	60 44 56.45	4	9010	14510 S 8 SU		9037
7 20	7 53 7.1677	1	0 40 42.105	41 4 41.94	4	9001	16733 S11 SU		9045
7 20	7 53 7.3177	1	21 21 48.867	60 2 35.25	4	9010	14510 S 9 SU		9039
7 20	7 53 15.1677	1	0 38 52.089	40 32 14.71	4	9001	16733 S12 SU		9046
7 20	7 53 15.3170	1	21 21 25.760	59 19 56.09	4	9010	14510 S10 SU		9039
7 20	7 53 23.1676	1	0 37 3.790	39 59 25.28	4	9001	16733 S13 SU		9047
7 20	7 53 23.3176	1	21 21 3.153	58 36 57.11	4	9010	14510 S11 SU		9040
7 20	7 55 47.1653	1	0 8 54.150	29 27 41.44	4	9001	16734 S 6 SD		9659
7 20	7 55 55.1654	1	0 7 33.233	28 50 40.76	4	9001	16734 S 7 SD		9660
7 20	7 55 55.3237	1	21 15 0.722	44 12 29.92	4	9010	14511 S 3 BN		9666
7 20	7 56 3.1654	1	0 6 13.466	23 13 32.41	4	9001	16734 S 8 SD		9661
7 20	7 56 3.3229	1	21 14 43.985	43 24 47.86	4	9010	14511 S 4 BN		9667
7 20	7 56 11.1656	1	0 4 54.989	27 36 14.97	4	9001	16734 S 9 SD		9662
7 20	7 56 11.3227	1	21 14 26.945	42 37 4.80	4	9010	14511 S 5 BN		9668
7 20	7 56 19.1655	1	0 3 37.620	26 58 48.69	4	9001	16734 S10 SD		9665
7 20	7 56 19.3232	1	21 14 10.096	41 49 8.76	4	9010	14511 S 6 BN		9669
7 20	7 56 27.3232	1	21 13 53.989	41 1 8.25	4	9010	14511 S 7 BN		9670
7 20	7 56 35.1656	1	0 1 6.363	25 43 33.32	4	9001	16734 S12 SD		9664
7 20	7 56 35.3225	1	21 13 37.412	40 12 51.67	4	9010	14511 S 8 BN		9671
7 20	7 56 43.1655	1	23 59 52.181	25 5 46.21	4	9001	16734 S13 SD		9665
7 20	7 56 43.3229	1	21 13 20.892	39 24 30.98	4	9010	14511 S 9 BN		9672
7 20	8 6 19.3514	1	20 54 3.507	-13 51 20.00	4	9010	14512 S 5 PG		9387
7 20	8 6 27.3505	1	20 53 45.546	-14 26 22.95	4	9010	14512 S 6 PG		9388
7 20	8 6 35.1699	1	23 1 46.827	-19 26 2.05	4	9001	16735 S10 PG		9394
7 20	8 6 35.3496	1	20 53 27.467	-15 1 8.50	4	9010	14512 S 7 PG		9389
7 20	8 6 42.1708	1	20 3 10.405	37 31 18.12	4	9007	14038 S 9 PG		9401
7 20	8 6 43.1699	1	23 1 16.773	-19 56 40.88	4	9001	16735 S11 PG		9395

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) RMS D M S	STATION	FRAME NO.	MS	FBS.NO.
1964 7 20	8 6 43.3486	1	20 53 8.939	-15 35 40.10	9010	14512 S 8	PG	9390
7 20	8 6 50.1706	1	20 3 1.073	37 2 35.91	9007	14038 S10	PG	9402
7 20	8 6 51.1701	1	23 0 47.019	-20 27 2.91	9001	16735 S12	PG	9396
7 20	8 6 51.3478	1	20 52 50.512	-16 9 48.86	9010	14512 S 9	PG	9391
7 20	8 6 58.1708	1	20 2 51.496	36 33 43.99	9007	14038 S11	PG	9403
7 20	8 6 59.1699	1	23 0 17.583	-20 57 22.35	9001	16735 S13	PG	9397
7 20	8 6 59.3474	1	20 52 31.686	-16 43 38.07	9010	14512 S10	PG	9392
7 20	8 7 6.1709	1	20 2 41.744	36 4 44.51	9007	14038 S12	PG	9404
7 20	8 7 7.1698	1	22 59 48.449	-21 27 25.49	9001	16735 S14	PG	9398
7 20	8 7 7.3472	1	20 52 13.094	-17 17 17.76	9010	14512 S11	PG	9393
7 20	8 7 14.1711	1	20 2 31.371	35 35 39.30	9007	14038 S13	PG	9405
7 20	8 7 15.1695	1	22 59 19.433	-21 57 15.33	9001	16735 S15	PG	9399
7 20	8 7 23.1698	1	22 58 50.956	-22 26 57.46	9001	16735 S16	PG	9400
7 20	10 42 51.1633	1	0 50 11.696	34 24 25.52	9012	14495 S 4	DK	795
7 20	10 42 51.1635	1	20 3 30.105	24 4 7.89	9001	16746 S 4	JV	788
7 20	10 42 59.1634	1	20 3 50.929	23 23 28.00	9001	16746 S 5	JV	789
7 20	10 42 59.1636	1	0 48 56.260	33 55 49.13	9012	14495 S 5	DK	796
7 20	10 43 7.1631	1	20 4 10.969	22 42 56.90	9001	16746 S 6	JV	790
7 20	10 43 7.1636	1	0 47 41.517	33 27 2.42	9012	14495 S 6	DK	797
7 20	10 43 15.1633	1	20 4 30.252	22 2 37.49	9001	16746 S 7	JV	791
7 20	10 43 15.1637	1	0 46 27.808	32 58 3.60	9012	14495 S 7	DK	798
7 20	10 43 23.1630	1	20 4 49.140	21 22 18.71	9001	16746 S 8	JV	792
7 20	10 43 23.1638	1	0 45 14.966	32 28 52.60	9012	14495 S 8	DK	1268
7 20	10 43 31.1637	1	0 44 3.131	31 59 26.24	9012	14495 S 9	DK	799
7 20	10 43 31.1637	1	20 5 7.060	20 42 12.30	9001	16746 S 9	JV	793
7 20	10 43 39.1633	1	20 5 24.690	20 2 15.71	9001	16746 S10	JV	794
7 20	10 43 39.1637	1	0 42 52.367	31 29 57.39	9012	14495 S10	DK	800
7 20	10 47 31.1644	1	0 14 5.290	15 57 38.49	9012	14496 S 3	WC	877
7 20	10 47 31.1687	1	20 10 15.928	2 3 36.03	9001	16747 S 4	WC	871
7 20	10 47 39.1647	1	0 13 15.837	15 23 29.89	9012	14496 S 4	WC	878
7 20	10 47 39.1684	1	20 10 19.954	1 29 36.01	9001	16747 S 5	WC	872
7 20	10 47 47.1646	1	0 12 27.039	14 49 15.06	9012	14496 S 5	WC	879
7 20	10 47 47.1684	1	20 10 23.621	0 55 41.79	9001	16747 S 6	WC	873
7 20	10 47 55.1645	1	0 11 38.819	14 14 57.11	9012	14496 S 6	HP	880
7 20	10 47 55.1684	1	20 10 26.809	0 22 5.68	9001	16747 S 7	WC	874
7 20	10 48 3.1645	1	0 10 51.082	13 40 31.03	9012	14496 S 7	HP	881
7 20	10 48 3.1684	1	20 10 29.778	-0 11 20.48	9001	16747 S 8	WC	875
7 20	10 48 11.1645	1	0 10 3.973	13 6 6.76	9012	14496 S 8	HP	882
7 20	10 48 11.1683	1	20 10 32.292	-0 44 29.94	9001	16747 S 9	WC	876
7 20	10 48 19.1645	1	0 9 17.350	12 31 31.55	9012	14496 S 9	HP	883
7 20	10 48 19.1683	1	20 10 34.572	-1 17 27.30	9001	16747 S10	WC	1267
7 21	8 50 11.1661	1	22 50 42.262	33 45 11.81	9001	16752 S 8	RO	45
7 21	8 50 19.1359	1	19 51 3.274	34 45 27.23	9010	14529 S 5	RO	53
7 21	8 50 19.1674	1	22 49 35.170	32 58 0.28	9001	16752 S 9	RO	46
7 21	8 50 27.1364	1	19 51 33.992	34 4 32.23	9010	14529 S 6	RO	54

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950...) H M S	DECL. (1950...) D M S	R.S. R S	STATION	FRANK NO.	MS	ORIS. NO.
1964 7 21	8 50 27.1667	1	18 55 56.961	41 50 26.94	4	9009	12422 S 6	RO	751
7 21	8 50 27.1688	1	22 48 29.645	32 10 44.32	4	9001	16752 S 10	RO	47
7 21	8 50 35.1372	1	19 52 3.696	33 23 44.48	4	9010	14529 S 7	RO	55
7 21	8 50 35.1668	1	18 56 43.325	41 21 46.94	4	9009	12422 S 7	RO	50
7 21	8 50 35.1702	1	22 47 25.389	31 23 27.03	4	9001	16752 S 11	RO	48
7 21	8 50 43.1386	1	19 52 32.611	32 42 49.66	4	9010	14529 S 8	RO	56
7 21	8 50 43.1669	1	18 57 28.710	40 53 6.64	4	9009	12422 S 8	RO	51
7 21	8 50 43.1716	1	22 46 22.539	30 35 55.89	4	9001	16752 S 12	RO	49
7 21	8 50 51.1393	1	19 53 0.293	32 1 51.89	4	9010	14529 S 9	RO	752
7 21	8 50 51.1670	1	18 58 13.125	40 24 17.49	4	9009	12422 S 9	RO	52
7 21	8 52 11.1707	1	19 4 44.580	35 31 19.41	4	9009	12423 S 2	RO	197
7 21	8 52 19.1404	1	19 57 14.351	24 33 55.16	4	9010	14531 S 3	RO	9913
7 21	8 52 19.1707	1	19 5 19.277	35 1 35.90	4	9009	12423 S 3	RO	9907
7 21	8 52 19.1740	1	22 35 7.677	21 5 38.30	4	9001	16753 S 2	RO	9900
7 21	8 52 27.1409	1	19 57 33.053	23 53 30.60	4	9010	14531 S 4	RO	9914
7 21	8 52 27.1740	1	22 34 17.205	20 18 21.49	4	9001	16733 S 3	RO	9901
7 21	8 52 35.1406	1	19 57 51.141	23 13 12.73	4	9010	14531 S 5	RO	199
7 21	8 52 35.1705	1	19 6 25.671	34 1 57.43	4	9009	12423 S 5	RO	198
7 21	8 52 43.1400	1	19 58 8.764	22 33 5.15	4	9010	14531 S 6	RO	9916
7 21	8 52 43.1706	1	19 6 57.717	33 32 6.71	4	9009	12423 S 6	RO	9909
7 21	8 52 43.1740	1	22 32 39.033	18 44 7.32	4	9001	16753 S 5	RO	9902
7 21	8 52 51.1401	1	19 58 25.780	21 52 46.67	4	9010	14531 S 7	RO	9917
7 21	8 52 51.1737	1	19 7 28.657	33 2 5.07	4	9009	12423 S 7	RO	9910
7 21	8 52 51.1739	1	22 31 51.025	17 57 10.94	4	9001	16753 S 6	RO	9903
7 21	8 52 59.1406	1	19 58 42.065	21 12 46.48	4	9010	14531 S 8	RO	9918
7 21	8 52 59.1709	1	19 7 59.141	32 32 6.31	4	9009	12423 S 8	RO	9911
7 21	8 52 59.1741	1	22 31 3.608	17 10 19.95	4	9001	16753 S 7	RO	9904
7 21	8 53 7.1709	1	19 8 28.986	32 1 59.59	4	9009	12423 S 9	RO	9912
7 21	8 53 7.1741	1	22 30 17.164	16 23 33.68	4	9001	16753 S 8	RO	9905
7 26	7 49 23.1857	1	20 58 13.262	37 5 37.59	4	9010	14549 S 6	YK	9937
7 26	7 49 31.1715	1	19 30 0.349	47 45 14.07	4	9009	12511 S 11	BA	9931
7 26	7 49 31.1874	1	20 58 9.537	36 17 53.56	4	9010	14549 S 7	YK	9938
7 26	7 49 35.1716	1	19 30 20.551	47 28 30.79	4	9009	12511 S 12	BA	9932
7 26	7 49 39.1716	1	19 30 42.647	47 11 43.28	4	9009	12511 S 13	BA	9933
7 26	7 49 39.1887	1	20 58 5.182	35 30 8.17	4	9010	14549 S 8	YK	9939
7 26	7 49 47.1716	1	19 31 19.819	46 33 8.05	4	9009	12511 S 15	BA	9934
7 26	7 49 47.1892	1	20 58 0.504	34 42 23.41	4	9010	14549 S 9	YK	9940
7 26	7 49 51.1719	1	19 31 39.055	46 21 11.38	4	9009	12511 S 16	DM	9935
7 26	7 49 55.1717	1	19 31 58.013	46 4 13.25	4	9009	12511 S 17	DM	9936
7 26	7 49 55.1897	1	20 57 55.855	33 54 34.16	4	9010	14549 S 10	YK	9941
7 28	6 47 55.1715	1	1 6 24.119	33 48 13.06	4	9001	16880 S 5	RO	944
7 28	6 48 3.1599	1	23 19 6.824	57 30 38.23	4	9010	14567 S 2	RO	955
7 28	6 48 11.1605	1	23 17 8.813	56 51 45.79	4	9010	14567 S 3	RO	956
7 28	6 48 19.1602	1	23 15 14.413	56 12 32.12	4	9010	14567 S 4	RO	957
7 28	6 48 19.1717	1	1 2 0.473	32 23 54.58	4	9001	16880 S 8	RO	947

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 7 28	6 48 27.1597	1	23 13 23.295	55 32 52.82	4	9010	14567 S 5	RD	958
7 28	6 48 27.1716	1	1 0 34.809	31 55 27.64	4	9001	16880 S 9	RD	948
7 28	6 48 31.1721	1	20 50 19.856	70 11 44.48	4	9009	12558 S14	RD	951
7 28	6 48 35.1589	1	23 11 35.177	54 52 48.76	4	9010	14567 S 6	RD	959
7 28	6 48 35.1717	1	0 59 10.316	31 26 47.57	4	9001	16880 S10	RD	949
7 28	6 48 35.1720	1	20 50 26.645	69 56 28.15	4	9009	12558 S15	RD	952
7 28	6 48 39.1720	1	20 50 33.241	69 41 6.06	4	9009	12558 S16	RD	953
7 28	6 48 43.1591	1	23 9 49.746	54 12 25.39	4	9010	14567 S 7	RD	960
7 28	6 48 43.1716	1	0 57 46.816	30 57 59.61	4	9001	16880 S11	RD	950
7 28	6 48 43.1722	1	20 50 39.077	69 25 45.99	4	9009	12558 S17	RD	954
7 28	6 48 51.1605	1	23 8 7.370	53 31 33.93	4	9010	14567 S 8	RD	961
7 28	6 52 27.1705	1	0 25 4.730	16 37 19.65	4	9001	16882 S 4	RD	565
7 28	6 52 27.3646	1	22 34 30.944	33 12 23.61	4	9010	14568 S 5	JV	532
7 28	6 52 35.1707	1	0 24 6.476	16 5 17.60	4	9001	16882 S 5	RD	566
7 28	6 52 35.3651	1	22 33 35.712	32 24 10.04	4	9010	14568 S 6	JV	533
7 28	6 52 43.1708	1	0 23 9.001	15 33 15.63	4	9001	16882 S 6	RD	567
7 28	6 52 43.1722	1	20 51 46.596	52 7 50.05	4	9009	12559 S 6	F1	572
7 28	6 52 43.3660	1	22 32 41.577	31 35 53.13	4	9010	14568 S 7	JV	1261
7 28	6 52 47.1722	1	20 51 44.779	51 48 32.99	4	9009	12559 S 7	F1	573
7 28	6 52 51.1710	1	0 22 12.133	15 1 9.29	4	9001	16882 S 7	RD	568
7 28	6 52 55.1722	1	20 51 40.038	51 9 52.02	4	9009	12559 S 9	DK	574
7 28	6 52 59.1708	1	0 21 16.016	14 29 4.62	4	9001	16882 S 8	RD	569
7 28	6 52 59.1723	1	20 51 37.581	50 50 24.97	4	9009	12559 S10	DK	575
7 28	6 52 59.3659	1	22 30 55.911	29 58 58.84	4	9010	14568 S 9	JV	535
7 28	6 53 3.1721	1	20 51 35.142	50 30 54.16	4	9009	12559 S11	DK	1260
7 28	6 53 7.1708	1	0 20 20.270	13 56 54.12	4	9001	16882 S 9	RD	570
7 28	6 53 7.1723	1	20 51 32.751	50 11 20.08	4	9009	12559 S12	DK	577
7 28	6 53 7.3645	1	22 30 4.824	29 10 20.25	4	9010	14568 S10	JV	536
7 28	6 53 15.1709	1	0 19 25.744	13 24 42.17	4	9001	16882 S10	RD	1696
7 28	6 53 15.1725	1	20 51 27.488	49 32 1.65	4	9009	12559 S14	DK	578
7 28	6 53 15.3641	1	22 29 14.071	28 21 45.43	4	9010	14568 S11	JV	537
7 28	6 53 23.3647	1	22 28 24.308	27 33 0.29	4	9010	14568 S12	JV	538
7 28	9 41 47.1739	1	20 54 6.927	4 4 4.85	4	9001	16891 S 3	VP	9141
7 28	9 41 47.1747	1	0 40 37.988	14 28 55.63	4	9012	14615 S 3	VP	9146
7 28	9 41 55.1738	1	20 53 59.468	3 24 11.00	4	9001	16891 S 4	VP	9142
7 28	9 41 55.1749	1	0 39 55.681	14 0 46.99	4	9012	14615 S 4	VP	9147
7 28	9 42 3.1737	1	20 53 51.991	2 44 38.06	4	9001	16891 S 5	VP	9143
7 28	9 42 3.1749	1	0 39 14.231	13 32 32.06	4	9012	14615 S 5	VP	9148
7 28	9 42 11.1737	1	20 53 44.370	2 5 23.24	4	9001	16891 S 6	VP	9144
7 28	9 42 11.1752	1	0 38 32.550	13 4 16.09	4	9012	14615 S 6	VP	9149
7 28	9 42 19.1736	1	20 53 36.533	1 26 20.35	4	9001	16891 S 7	VP	9145
7 29	7 44 11.1754	1	19 18 8.128	52 52 59.91	4	9009	12585 S 3	JV	1196
7 29	7 44 11.1797	1	0 2 19.691	32 50 42.11	4	9001	16910 S 2	DK	1202
7 29	7 44 19.1752	1	19 19 5.755	52 22 1.14	4	9009	12585 S 4	JV	1197
7 29	7 44 19.1797	1	0 0 54.359	32 11 13.26	4	9001	16910 S 3	DK	1203

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 7 29	7 44 27.1753	1	19 20 1.794	51 50 54.74	4	9009	12585 S 5	JV	1699
7 29	7 44 27.1799	1	23 59 30.357	31 31 37.02	4	9001	16910 S 4	DK	1204
7 29	7 44 35.1752	1	19 20 56.426	51 19 38.41	4	9009	12585 S 6	JV	1198
7 29	7 44 35.1799	1	23 58 7.766	30 51 47.37	4	9001	16910 S 5	DK	1205
7 29	7 44 43.1753	1	19 21 49.798	50 48 9.04	4	9009	12585 S 7	JV	1199
7 29	7 44 43.1800	1	23 56 46.662	30 11 50.33	4	9001	16910 S 6	EM	1206
7 29	7 44 51.1755	1	19 22 41.030	50 16 29.88	4	9009	12585 S 8	JV	1200
7 29	7 44 51.1799	1	23 55 26.427	29 31 42.70	4	9001	16910 S 7	EM	1237
7 29	7 44 55.6162	1	20 51 23.562	40 30 26.05	4	9010	14585 S 3	JV	1192
7 29	7 44 59.1756	1	19 23 31.159	49 44 37.67	4	9009	12585 S 9	DK	1201
7 29	7 44 59.1799	1	23 54 7.942	28 51 28.11	4	9001	16910 S 8	EM	1208
7 29	7 45 3.6158	1	20 51 26.851	39 43 42.38	4	9010	14585 S 4	JV	1193
7 29	7 45 11.6156	1	20 51 30.034	38 57 1.14	4	9010	14585 S 5	JV	1194
7 29	7 45 19.6160	1	20 51 32.528	38 10 7.02	4	9010	14585 S 6	JV	1195
7 29	7 48 45.4899	1	20 50 49.245	18 7 8.98	4	9010	14586 S 4	BN	585
7 29	7 48 51.1751	1	19 39 38.321	33 17 23.39	4	9009	12587 S 3	SU	579
7 29	7 48 53.4905	1	20 50 44.144	17 21 37.16	4	9010	14586 S 5	BN	586
7 29	7 48 59.1752	1	19 39 58.605	32 41 43.43	4	9009	12587 S 4	SU	580
7 29	7 49 1.4912	1	20 50 38.734	16 36 18.95	4	9010	14586 S 6	BN	587
7 29	7 49 7.1751	1	19 40 18.098	32 5 54.09	4	9009	12587 S 5	SU	581
7 29	7 49 9.4917	1	20 50 33.232	15 51 10.06	4	9010	14586 S 7	BN	588
7 29	7 49 15.1751	1	19 40 36.963	31 30 3.11	4	9009	12587 S 6	SU	582
7 29	7 49 17.4926	1	20 50 27.524	15 6 7.61	4	9010	14586 S 8	BN	589
7 29	7 49 23.1751	1	19 40 55.391	30 54 11.57	4	9009	12587 S 7	SU	583
7 29	7 49 25.4933	1	20 50 21.432	14 21 22.31	4	9010	14586 S 9	BN	590
7 29	7 49 31.1750	1	19 41 12.824	30 18 11.88	4	9009	12587 S 8	SU	584
7 30	0 12 43.1697	1	18 13 55.950	58 21 28.04	4	9008	18512 S 3	SU	9867
7 30	0 12 43.1938	1	2 7 58.351	49 41 4.44	4	9004	14542 S 4	BA	9862
7 30	0 12 51.1699	1	18 16 27.312	57 54 57.10	4	9008	18512 S 4	SU	9868
7 30	0 12 51.1940	1	2 5 24.445	49 20 43.93	4	9004	14542 S 5	BA	9863
7 30	0 12 59.1701	1	18 18 55.239	57 28 4.25	4	9008	18512 S 5	SU	9869
7 30	0 12 59.1939	1	2 2 52.706	48 59 56.79	4	9004	14542 S 6	BA	9864
7 30	0 13 7.1700	1	18 21 19.412	57 0 55.75	4	9008	18512 S 6	SU	9870
7 30	0 13 7.1941	1	2 0 22.296	48 38 52.92	4	9004	14542 S 7	BA	9865
7 30	0 13 15.1705	1	18 23 39.848	56 33 27.89	4	9008	18512 S 7	YK	9871
7 30	0 13 15.1942	1	1 57 54.096	48 17 23.26	4	9004	14542 S 8	BA	9866
7 30	0 17 23.1757	1	19 13 37.500	40 30 49.43	4	9008	18513 S 3	VP	245
7 30	0 17 23.1932	1	0 55 6.005	34 33 45.47	4	9004	14543 S 5	VP	1259
7 30	0 17 31.1755	1	19 14 41.575	39 57 30.22	4	9008	18513 S 4	VP	246
7 30	0 17 31.1931	1	0 53 28.864	34 2 58.97	4	9004	14543 S 6	VP	239
7 30	0 17 39.1756	1	19 15 44.364	39 24 2.35	4	9008	18513 S 5	VP	247
7 30	0 17 39.1929	1	0 51 53.572	33 32 1.83	4	9004	14543 S 7	VP	240
7 30	0 17 47.1759	1	19 16 45.190	38 50 27.40	4	9008	18513 S 6	VP	248
7 30	0 17 47.1928	1	0 50 19.311	33 0 57.13	4	9004	14543 S 8	VP	241
7 30	0 17 55.1759	1	19 17 44.758	38 16 54.22	4	9008	18513 S 7	VP	750

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 7 30	0 17 55.1931	1	0 48 46.442	32 29 34.52	9004	14543 S 9	VP	242
7 30	0 18 3.1762	1	19 18 43.034	37 43 17.78	9008	18513 S 8	VP	250
7 30	0 18 3.1929	1	0 47 14.586	31 58 1.98	9004	14543 S10	VP	243
7 30	0 18 11.1766	1	19 19 39.613	37 9 38.75	9008	18513 S 9	VP	251
7 30	0 18 11.1930	1	0 45 44.136	31 26 17.52	9004	14543 S11	VP	244
7 30	8 38 19.1737	1	22 32 17.775	37 46 24.62	9001	16918 S 8	SU	9683
7 30	8 38 27.1507	1	19 42 45.262	34 53 9.06	9010	14605 S 3	BN	9688
7 30	8 38 27.1738	1	22 31 20.283	36 57 47.42	9001	16918 S 9	SU	9684
7 30	8 38 35.1506	1	19 43 24.126	34 15 11.20	9010	14605 S 4	BN	9689
7 30	8 38 35.1737	1	22 30 23.999	36 9 5.55	9001	16918 S10	SU	9685
7 30	8 38 43.1497	1	19 44 1.754	33 37 8.59	9010	14605 S 5	BN	9690
7 30	8 38 43.1738	1	22 29 29.049	35 20 20.84	9001	16918 S12	SU	9686
7 30	8 38 51.1492	1	19 44 38.380	32 59 6.53	9010	14605 S 6	BN	9691
7 30	8 38 51.1737	1	22 28 34.921	34 31 28.68	9001	16918 S13	SU	9687
7 30	8 42 59.1737	1	22 7 6.096	9 43 0.85	9001	16919 S 6	DK	1053
7 30	8 43 7.1625	1	19 57 11.282	13 7 11.85	9010	14606 S 2	EM	1046
7 30	8 43 7.1737	1	22 6 33.088	8 57 40.23	9001	16919 S 7	DK	1054
7 30	8 43 15.1621	1	19 57 24.529	12 31 33.84	9010	14606 S 3	EM	1255
7 30	8 43 15.1737	1	22 6 0.383	8 12 35.32	9001	16919 S 8	DK	1055
7 30	8 43 23.1618	1	19 57 37.346	11 56 6.99	9010	14606 S 4	EM	1256
7 30	8 43 23.1740	1	22 5 28.265	7 27 48.35	9001	16919 S 9	DK	1056
7 30	8 43 31.1620	1	19 57 49.667	11 20 50.84	9010	14606 S 5	EM	1049
7 30	8 43 31.1739	1	22 4 56.383	6 43 15.76	9001	16919 S10	DK	1057
7 30	8 43 39.1622	1	19 58 1.458	10 45 38.68	9010	14606 S 6	EM	1050
7 30	8 43 39.1739	1	22 4 24.952	5 59 0.40	9001	16919 S11	DK	1058
7 30	8 43 47.1626	1	19 58 12.777	10 10 37.49	9010	14606 S 7	EM	1257
7 30	8 43 47.1739	1	22 3 53.514	5 15 3.41	9001	16919 S12	AC	1059
7 30	8 43 55.1629	1	19 58 23.755	9 35 50.13	9010	14606 S 8	EM	1052
7 31	6 44 27.5079	1	23 5 0.302	57 9 44.37	9010	14621 S 7	PG	328
7 31	6 44 35.5101	1	23 3 15.839	56 29 27.84	9010	14621 S 8	PG	753
7 31	6 44 43.1773	1	1 0 30.077	32 31 49.79	9001	16924 S 4	PG	333
7 31	6 44 43.5117	1	23 1 33.706	55 48 43.21	9010	14621 S 9	PG	330
7 31	6 44 51.1773	1	0 59 3.649	32 2 29.80	9001	16924 S 5	PG	334
7 31	6 44 51.5124	1	22 59 54.743	55 7 38.37	9010	14621 S10	PG	331
7 31	6 44 59.1776	1	0 57 38.351	31 33 0.71	9001	16924 S 6	PG	335
7 31	6 44 59.5127	1	22 58 19.130	54 26 15.06	9010	14621 S11	PG	332
7 31	6 45 7.1774	1	0 56 14.039	31 3 17.81	9001	16924 S 7	PG	336
7 31	6 45 15.1773	1	0 54 50.617	30 33 29.10	9001	16924 S 8	PG	337
7 31	6 47 39.1750	1	0 32 40.922	21 11 26.12	9001	16927 S 4	PG	9893
7 31	6 47 39.5263	1	22 33 31.331	39 30 49.74	9010	14622 S 5	PG	9886
7 31	6 47 47.1748	1	0 31 35.538	20 39 10.11	9001	16927 S 5	PG	9894
7 31	6 47 47.5271	1	22 32 32.970	38 43 20.38	9010	14622 S 6	PG	9887
7 31	6 47 55.1748	1	0 30 31.199	20 6 51.27	9001	16927 S 6	PG	9895
7 31	6 47 55.5271	1	22 31 35.922	37 55 39.73	9010	14622 S 7	PG	9888
7 31	6 48 3.1750	1	0 29 27.372	19 34 23.45	9001	16927 S 7	PG	9896

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 7 31	6 48 3.5272	1	22 30 40.030	37 7 49.48	9010	14622 S 8	PG	9889
7 31	6 48 11.1750	1	0 28 24.576	19 1 54.66	9001	16927 S 8	PG	9897
7 31	6 48 11.5271	1	22 29 44.875	36 19 49.57	9010	14622 S 9	PG	9890
7 31	6 48 19.1748	1	0 27 22.265	18 29 17.06	9001	16927 S 9	PG	9898
7 31	6 48 19.5279	1	22 28 51.282	35 31 37.16	9010	14622 S 10	PG	9891
7 31	6 48 27.1748	1	0 26 20.931	17 56 40.79	9001	16927 S 10	PG	9899
7 31	6 48 27.5281	1	22 27 58.384	34 43 19.99	9010	14622 S 11	PG	9892
7 31	6 52 3.0927	1	22 8 47.798	12 49 44.85	9010	14623 S 3	YK	9317
7 31	6 52 3.1721	1	0 2 59.824	3 9 24.77	9001	16928 S 3	SU	9310
7 31	6 52 11.0923	1	22 8 12.163	12 2 7.62	9010	14623 S 4	YK	9318
7 31	6 52 11.1722	1	0 2 16.101	2 36 54.34	9001	16928 S 4	SU	9311
7 31	6 52 19.0929	1	22 7 37.435	11 14 43.27	9010	14623 S 5	YK	9319
7 31	6 52 19.1722	1	0 1 33.029	2 4 22.99	9001	16928 S 5	SU	9312
7 31	6 52 27.0930	1	22 7 3.231	10 27 25.49	9010	14623 S 6	YK	9320
7 31	6 52 27.1721	1	0 0 50.608	1 31 59.00	9001	16928 S 6	SU	9313
7 31	6 52 35.0922	1	22 6 28.689	9 40 25.52	9010	14623 S 7	YK	9321
7 31	6 52 35.1722	1	0 0 8.285	0 59 35.93	9001	16928 S 7	SU	9314
7 31	6 52 43.0918	1	22 5 54.919	8 53 35.96	9010	14623 S 8	YK	9322
7 31	6 52 43.1722	1	23 59 26.498	0 27 20.07	9001	16928 S 8	SU	9315
7 31	6 52 51.0927	1	22 5 21.564	8 7 0.35	9010	14623 S 9	YK	9323
7 31	6 52 51.1721	1	23 58 45.405	- 0 4 52.31	9001	16928 S 9	SU	9316
7 31	9 32 11.1772	1	20 50 16.967	36 12 1.24	9001	16933 S 4	RD	157
7 31	9 32 11.2060	1	19 19 3.386	28 31 1.38	9010	14630 S 3	FN	163
7 31	9 32 19.1770	1	20 50 25.164	35 24 51.29	9001	16933 S 5	RD	158
7 31	9 32 19.2066	1	19 19 43.855	28 1 8.89	9010	14630 S 4	FN	164
7 31	9 32 27.1769	1	20 50 32.914	34 37 46.86	9001	16933 S 6	RD	159
7 31	9 32 27.2072	1	19 20 23.483	27 31 17.78	9010	14630 S 5	FN	165
7 31	9 32 35.1770	1	20 50 39.911	33 50 41.76	9001	16933 S 7	RD	160
7 31	9 32 35.2085	1	19 21 2.289	27 1 28.66	9010	14630 S 6	FN	166
7 31	9 32 43.1769	1	20 50 46.550	33 3 42.79	9001	16933 S 8	FI	161
7 31	9 32 43.2096	1	19 21 40.299	26 31 41.52	9010	14630 S 7	FN	167
7 31	9 32 51.1770	1	20 50 52.846	32 16 45.17	9001	16933 S 9	DK	162
7 31	9 32 51.2098	1	19 22 17.354	26 1 54.53	9010	14630 S 8	FN	168
7 31	9 35 47.1787	1	20 51 36.975	15 34 23.00	9001	16934 S 4	EM	338
7 31	9 35 47.2225	1	19 33 1.143	15 17 26.47	9010	14631 S 3	AM	345
7 31	9 35 55.1788	1	20 51 35.535	14 50 55.79	9001	16934 S 5	EM	339
7 31	9 35 55.2223	1	19 33 23.441	14 48 54.69	9010	14631 S 4	AM	346
7 31	9 36 3.1789	1	20 51 33.732	14 7 40.03	9001	16934 S 6	EM	340
7 31	9 36 3.2222	1	19 33 45.191	14 20 23.99	9010	14631 S 5	AM	347
7 31	9 36 11.1789	1	20 51 31.764	13 24 40.01	9001	16934 S 7	EM	341
7 31	9 36 11.2225	1	19 34 6.149	13 51 58.21	9010	14631 S 6	AM	348
7 31	9 36 19.1789	1	20 51 29.736	12 41 56.59	9001	16934 S 8	AM	342
7 31	9 36 19.2234	1	19 34 26.897	13 23 38.24	9010	14631 S 7	AM	349
7 31	9 36 27.1790	1	20 51 27.012	11 59 24.56	9001	16934 S 9	AM	343
7 31	9 36 27.2241	1	19 34 47.292	12 55 20.27	9010	14631 S 8	AM	350

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 7 31	9 36 35.1791	1	20 51 24.379	11 17 8.90	9001	16934 S10	AM	344
7 31	9 36 35.2253	1	19 35 7.093	12 27 11.20	9010	14631 S 9	AM	351
8 1	7 37 7.1763	1	0 42 52.836	48 48 57.82	9001	16940 S10	VP	837
8 1	7 37 7.4661	1	20 33 41.770	61 43 35.15	9010	14648 S 5	VP	844
8 1	7 37 15.1764	1	0 40 38.751	48 15 41.56	9001	16940 S11	VP	838
8 1	7 37 15.4663	1	20 34 22.948	61 3 18.38	9010	14648 S 6	VP	845
8 1	7 37 23.1764	1	0 38 26.878	47 42 2.17	9001	16940 S12	VP	839
8 1	7 37 23.4668	1	20 35 2.636	60 22 43.99	9010	14648 S 7	VP	846
8 1	7 37 31.1766	1	0 36 17.410	47 8 0.49	9001	16940 S13	VP	840
8 1	7 37 31.4672	1	20 35 40.014	59 41 53.40	9010	14648 S 8	VP	847
8 1	7 37 39.1765	1	0 34 10.828	46 33 36.23	9001	16940 S14	VP	841
8 1	7 37 39.4662	1	20 36 15.980	59 0 46.59	9010	14648 S 9	VP	848
8 1	7 37 47.1765	1	0 32 6.272	45 58 50.09	9001	16940 S15	VP	842
8 1	7 37 47.4665	1	20 36 50.187	58 19 25.84	9010	14648 S10	VP	849
8 1	7 37 55.1764	1	0 30 4.280	45 23 44.36	9001	16940 S16	VP	843
8 1	7 37 55.4673	1	20 37 22.672	57 37 50.51	9010	14648 S11	VP	850
8 1	7 40 43.1827	1	23 54 58.251	31 58 33.85	9001	16942 S 9	DK	364
8 1	7 40 43.4917	1	20 44 20.485	42 14 59.08	9010	14649 S 7	DK	368
8 1	7 40 51.1824	1	23 53 36.276	31 17 48.00	9001	16942 S10	DK	365
8 1	7 40 51.4928	1	20 44 31.140	41 29 16.83	9010	14649 S 8	DK	369
8 1	7 40 59.1827	1	23 52 15.648	30 36 50.19	9001	16942 S11	DK	366
8 1	7 40 59.4933	1	20 44 41.195	40 43 27.83	9010	14649 S 9	DK	370
8 1	7 41 7.1823	1	23 50 56.295	29 55 43.83	9001	16942 S12	FI	367
8 1	7 41 7.4938	1	20 44 50.746	39 57 32.41	9010	14649 S10	DK	371
8 1	7 41 15.1823	1	23 49 38.342	29 14 25.23	9001	16942 S13	FI	769
8 1	7 41 15.4949	1	20 44 59.814	39 11 31.04	9010	14649 S11	DK	372
8 2	8 35 15.1700	1	22 19 49.647	33 31 47.06	9001	16950 S 5	AC	770
8 2	8 35 15.4812	1	19 44 22.381	31 20 53.85	9010	14670 S 3	AM	267
8 2	8 35 23.1700	1	22 19 3.457	32 42 27.15	9001	16950 S 6	AC	261
8 2	8 35 23.4817	1	19 44 57.588	30 43 46.77	9010	14670 S 4	AM	268
8 2	8 35 31.1701	1	22 18 18.233	31 53 6.26	9001	16950 S 7	AC	262
8 2	8 35 31.4823	1	19 45 31.763	30 6 42.36	9010	14670 S 5	AM	269
8 2	8 35 39.1702	1	22 17 33.791	31 3 43.70	9001	16950 S 8	AC	263
8 2	8 35 39.4828	1	19 46 5.048	29 29 35.98	9010	14670 S 6	AM	270
8 2	8 35 47.1702	1	22 16 50.052	30 14 23.43	9001	16950 S 9	AC	264
8 2	8 35 47.4833	1	19 46 37.302	28 52 30.34	9010	14670 S 7	AM	271
8 2	8 35 55.1703	1	22 16 7.261	29 25 3.91	9001	16950 S10	AC	265
8 2	8 35 55.4847	1	19 47 8.809	28 15 28.69	9010	14670 S 8	AM	272
8 2	8 36 3.1704	1	22 15 25.126	28 35 44.83	9001	16950 S11	AC	266
8 2	8 36 3.4857	1	19 47 39.509	27 38 29.30	9010	14670 S 9	AM	273
8 3	6 44 27.1722	1	22 21 7.908	36 13 1.26	9010	14680 S 4	VP	980
8 3	6 44 27.1839	1	0 27 26.127	19 19 1.24	9001	16968 S 3	EM	274
8 3	6 44 35.1718	1	22 20 19.645	35 24 26.76	9010	14680 S 5	VP	981
8 3	6 44 35.1842	1	0 26 23.033	18 45 39.71	9001	16968 S 4	EM	275
8 3	6 44 43.1726	1	22 19 32.443	34 35 41.44	9010	14680 S 6	VP	982

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 8 3	6 44 43.1841	1	0 25 20.693	18 12 13.05	4	9001	16968 S 5	EM	276
8 3	6 44 51.1731	1	22 18 46.051	33 46 51.66	4	9010	14680 S 7	VP	983
8 3	6 44 51.1833	1	20 35 4.335	52 0 31.22	4	9009	12689 S10	EM	281
8 3	6 44 51.1846	1	0 24 19.369	17 38 44.46	4	9001	16968 S 6	EM	277
8 3	6 44 55.1832	1	20 35 9.572	51 41 43.93	4	9009	12689 S11	EM	282
8 3	6 44 59.1731	1	22 18 0.366	32 57 54.49	4	9010	14680 S 8	VP	984
8 3	6 44 59.1832	1	20 35 14.445	51 22 57.29	4	9009	12689 S12	AC	283
8 3	6 44 59.1842	1	0 23 18.703	17 5 12.04	4	9001	16968 S 7	EM	278
8 3	6 45 3.1831	1	20 35 19.117	51 4 4.69	4	9009	12689 S13	AC	284
8 3	6 45 7.1732	1	22 17 15.563	32 8 52.40	4	9010	14680 S 9	VP	985
8 3	6 45 7.1830	1	20 35 23.827	50 45 10.42	4	9009	12689 S14	AC	285
8 3	6 45 7.1844	1	0 22 18.863	16 31 37.97	4	9001	16968 S 8	EM	279
8 3	6 45 11.1831	1	20 35 28.272	50 26 10.64	4	9009	12689 S15	SD	771
8 3	6 45 15.1734	1	22 16 31.418	31 19 46.06	4	9010	14680 S10	VP	986
8 3	6 45 15.1833	1	20 35 32.312	50 7 9.33	4	9009	12689 S16	SD	286
8 3	6 45 15.1843	1	0 21 19.650	15 58 0.59	4	9001	16968 S 9	EM	280
8 3	6 48 51.1603	1	22 0 6.704	9 26 34.73	4	9010	14681 S 3	VD	713
8 3	6 48 51.1820	1	23 58 50.004	0 52 24.09	4	9001	16969 S 2	VD	702
8 3	6 48 59.1603	1	21 59 35.658	8 39 55.60	4	9010	14681 S 4	VD	714
8 3	6 48 59.1825	1	23 58 8.017	0 19 31.56	4	9001	16969 S 3	VD	703
8 3	6 49 7.1606	1	21 59 4.983	7 53 27.06	4	9010	14681 S 5	VD	715
8 3	6 49 7.1824	1	23 57 26.414	- 0 13 19.43	4	9001	16969 S 4	VD	704
8 3	6 49 15.1615	1	21 58 34.547	7 7 14.10	4	9010	14681 S 6	VD	1964
8 3	6 49 23.1827	1	23 56 4.753	- 1 18 42.38	4	9001	16969 S 6	VD	705
8 3	6 49 31.1625	1	21 57 34.462	5 35 29.95	4	9010	14681 S 8	VD	716
8 3	6 49 31.1823	1	23 55 24.519	- 1 51 19.44	4	9001	16969 S 7	VD	706
8 3	6 49 39.1626	1	21 57 4.588	4 50 0.53	4	9010	14681 S 9	VD	717
8 3	6 49 39.1824	1	23 54 44.793	- 2 23 47.48	4	9001	16969 S 8	VD	707
8 3	6 49 43.1844	1	20 35 52.122	27 1 54.04	4	9009	12690 S13	VD	709
8 3	6 49 47.1627	1	21 56 35.161	4 4 46.88	4	9010	14681 S10	VD	718
8 3	6 49 47.1823	1	23 54 5.775	- 2 56 9.99	4	9001	16969 S 9	VD	708
8 3	6 49 47.1843	1	20 35 49.456	26 40 1.54	4	9009	12690 S14	VD	710
8 3	6 49 51.1842	1	20 35 46.627	26 18 11.97	4	9009	12690 S15	VD	711
8 3	6 49 55.1843	1	20 35 43.644	25 56 15.77	4	9009	12690 S16	VD	712
8 4	7 33 55.1572	1	20 27 32.216	57 50 6.52	4	9010	14700 S 4	VD	865
8 4	7 33 55.1795	1	18 49 5.412	60 6 22.54	4	9009	12716 S 3	VD	858
8 4	7 34 3.1491	1	20 28 15.585	57 9 5.07	4	9010	14700 S 5	VD	866
8 4	7 34 3.1795	1	18 50 44.066	59 40 22.43	4	9009	12716 S 4	VD	859
8 4	7 34 3.1821	1	0 26 56.385	46 46 18.88	4	9001	16992 S 5	VD	852
8 4	7 34 11.1502	1	20 28 56.795	56 27 48.19	4	9010	14700 S 6	VD	867
8 4	7 34 11.1794	1	18 52 20.371	59 14 9.12	4	9009	12716 S 5	VD	860
8 4	7 34 11.1822	1	0 24 53.801	46 10 11.55	4	9001	16992 S 6	VD	853
8 4	7 34 19.1518	1	20 29 36.186	55 46 19.91	4	9010	14700 S 7	VD	868
8 4	7 34 19.1796	1	18 53 53.970	58 47 40.97	4	9009	12716 S 6	VD	861
8 4	7 34 19.1822	1	0 22 53.718	45 33 44.43	4	9001	16992 S 7	VD	854

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 8 4	7 34 27.1525	1	20 30 13.978	55 4 34.55	9010	14700 S 8	VD	859
8 4	7 34 27.1795	1	18 55 25.482	58 20 59.19	9009	12716 S 7	VD	862
8 4	7 34 27.1823	1	0 20 56.106	44 56 57.40	9001	16992 S 8	VD	855
8 4	7 34 35.1798	1	18 56 54.405	57 54 6.99	9009	12716 S 8	VD	863
8 4	7 34 35.1823	1	0 19 0.514	44 19 48.99	9001	16992 S 9	VD	856
8 4	7 34 43.1529	1	20 31 25.316	53 40 24.47	9010	14700 S10	VD	870
8 4	7 34 43.1800	1	18 58 21.180	57 26 56.36	9009	12716 S 9	VD	864
8 4	7 34 43.1823	1	0 17 7.452	43 42 18.87	9001	16992 S10	VD	857
8 4	7 38 43.1826	1	23 34 5.748	23 11 23.16	9001	16993 S 6	VD	895
8 4	7 38 43.1856	1	19 27 48.927	42 26 51.01	9009	12717 S 5	VD	900
8 4	7 38 43.1962	1	20 40 50.461	31 25 34.04	9010	14701 S 4	VD	907
8 4	7 38 51.1827	1	23 33 0.593	22 28 26.03	9001	16993 S 7	VD	896
8 4	7 38 51.1855	1	19 28 26.867	41 54 27.15	9009	12717 S 6	VD	901
8 4	7 38 51.1982	1	20 40 58.369	30 40 1.37	9010	14701 S 5	VD	1280
8 4	7 38 59.1828	1	23 31 56.316	21 45 23.24	9001	16993 S 8	VD	897
8 4	7 38 59.1856	1	19 29 4.260	41 21 59.96	9009	12717 S 7	VD	902
8 4	7 38 59.1998	1	20 41 5.851	29 54 33.04	9010	14701 S 6	VD	909
8 4	7 39 7.1827	1	23 30 53.304	21 2 22.55	9001	16993 S 9	VD	898
8 4	7 39 7.1857	1	19 29 40.320	40 49 19.18	9009	12717 S 8	VD	903
8 4	7 39 7.2006	1	20 41 12.851	29 9 5.30	9010	14701 S 7	VD	910
8 4	7 39 15.1859	1	19 30 15.473	40 16 31.23	9009	12717 S 9	VD	904
8 4	7 39 15.2019	1	20 41 19.543	28 23 41.95	9010	14701 S 8	VD	911
8 4	7 39 23.1827	1	23 28 49.599	19 36 20.99	9001	16993 S11	VD	899
8 4	7 39 23.1861	1	19 30 49.511	39 43 42.55	9009	12717 S10	VD	905
8 4	7 39 23.2036	1	20 41 25.421	27 38 20.86	9010	14701 S 9	VD	912
8 4	7 39 31.1862	1	19 31 22.901	39 10 44.18	9009	12717 S11	VD	906
8 4	7 39 31.2044	1	20 41 31.252	26 53 2.42	9010	14701 S10	VD	913
8 4	10 19 47.1769	1	19 35 34.575	40 44 52.91	9001	17000 S 4	RO	1222
8 4	10 19 47.1824	1	1 41 9.833	52 58 42.51	9012	14696 S 3	RO	1228
8 4	10 19 55.1768	1	19 36 34.446	40 8 0.00	9001	17000 S 5	RO	1223
8 4	10 19 55.1827	1	1 38 57.252	52 36 52.65	9012	14696 S 4	RO	1229
8 4	10 20 3.1766	1	19 37 32.980	39 31 2.98	9001	17000 S 6	RO	1224
8 4	10 20 3.1826	1	1 36 46.155	52 14 35.55	9012	14696 S 5	RO	1230
8 4	10 20 11.1757	1	19 38 29.980	38 54 1.20	9001	17000 S 7	RO	1701
8 4	10 20 11.1828	1	1 34 36.879	51 52 4.18	9012	14696 S 6	RO	1702
8 4	10 20 19.1745	1	19 39 25.408	38 16 56.65	9001	17000 S 8	RO	1225
8 4	10 20 19.1827	1	1 32 29.318	51 29 9.28	9012	14696 S 7	RO	1231
8 4	10 20 27.1757	1	19 40 19.525	37 39 51.19	9001	17000 S 9	RO	1226
8 4	10 20 27.1827	1	1 30 23.367	51 5 55.59	9012	14696 S 8	RO	1232
8 4	10 20 35.1759	1	19 41 11.836	37 2 45.27	9001	17000 S10	RO	1227
8 4	10 20 35.1828	1	1 28 19.016	50 42 21.36	9012	14696 S 9	RO	1233
8 4	10 22 59.1858	1	0 55 30.790	42 42 51.09	9012	14697 S 2	JM	1342
8 4	10 23 7.1780	1	19 54 10.208	25 19 52.12	9001	17001 S 3	WC	1338
8 4	10 23 7.1859	1	0 53 55.190	42 13 19.65	9012	14697 S 3	JM	1343
8 4	10 23 15.1779	1	19 54 41.448	24 43 26.06	9001	17001 S 4	JM	1339

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.-NO.
1964	8 4	10 23 15.1862	0 52 20.937	41 43 26.97	4	9012	14697 S 4	WC	1344
	8 4	10 23 23.1787	19 55 12.007	24 7 4.18	4	9001	17001 S 5	JW	1340
	8 4	10 23 31.1862	0 50 47.945	41 13 17.90	4	9012	14697 S 5	WC	1345
	8 4	10 23 31.1775	19 55 41.596	23 30 45.87	4	9001	17001 S 6	JW	1341
	8 4	10 23 31.1864	0 49 16.269	40 42 52.79	4	9012	14697 S 6	WC	1346
	8 4	10 23 39.1864	0 47 45.937	40 12 7.22	4	9012	14697 S 7	WC	1956
	8 4	10 23 47.1865	0 46 16.678	39 41 5.79	4	9012	14697 S 8	AM	1348
	8 4	10 25 47.1796	20 2 19.983	13 31 40.63	4	9001	17002 S 6	JW	1116
	8 4	10 25 55.1795	20 2 37.848	12 57 38.58	4	9001	17002 S 7	JW	1117
	8 4	10 25 55.2221	0 25 5.466	30 48 53.97	4	9012	14698 S 4	TA	1703
	8 4	10 26 3.1794	20 2 55.360	12 23 46.39	4	9001	17002 S 8	JW	1118
	8 4	10 26 3.2212	0 23 55.019	30 13 36.02	4	9012	14698 S 5	TA	1123
	8 4	10 26 11.1795	20 3 12.198	11 50 5.89	4	9001	17002 S 9	JW	1119
	8 4	10 26 11.2205	0 22 45.149	29 38 6.46	4	9012	14698 S 6	AM	1124
	8 4	10 26 19.1795	20 3 28.728	11 16 31.33	4	9001	17002 S10	JW	1120
	8 4	10 26 19.2196	0 21 36.697	29 2 20.46	4	9012	14698 S 7	AM	1125
	8 4	10 26 27.1796	20 3 44.496	10 43 9.12	4	9001	17002 S11	JW	1121
	8 4	10 26 27.2187	0 20 28.862	28 26 25.45	4	9012	14698 S 8	AM	1126
	8 4	10 26 35.1797	20 3 59.846	10 9 55.83	4	9001	17002 S12	TA	1122
	8 4	10 26 35.2181	0 19 21.727	27 50 16.50	4	9012	14698 S 9	AM	1704
	8 4	10 26 43.2171	0 18 15.805	27 13 57.74	4	9012	14698 S10	AM	1127
	8 5	0 13 55.2008	0 11 51.266	18 36 17.82	4	9004	14678 S 4	DK	352
	8 5	0 14 3.1808	19 39 11.272	21 43 37.22	4	9008	18632 S 2	JW	762
	8 5	0 14 3.2009	0 10 46.181	18 0 34.37	4	9004	14678 S 5	DK	353
	8 5	0 14 11.1809	19 39 41.689	21 12 2.99	4	9008	18632 S 3	JW	763
	8 5	0 14 11.2009	0 9 42.162	17 24 48.58	4	9004	14678 S 6	DK	354
	8 5	0 14 19.1812	19 40 11.222	20 40 30.61	4	9008	18632 S 4	JW	360
	8 5	0 14 19.2009	0 8 38.766	16 48 59.79	4	9004	14678 S 7	DK	355
	8 5	0 14 27.1812	19 40 39.959	20 8 58.65	4	9008	18632 S 5	DK	764
	8 5	0 14 27.2008	0 7 36.362	16 13 15.41	4	9004	14678 S 8	JW	356
	8 5	0 14 35.1810	19 41 8.449	19 37 37.49	4	9008	18632 S 6	DK	362
	8 5	0 14 35.2008	0 6 34.868	15 37 27.61	4	9004	14678 S 9	JW	357
	8 5	0 14 43.1812	19 41 35.922	19 6 21.31	4	9008	18632 S 7	DK	363
	8 5	0 14 43.2005	0 5 34.147	15 1 43.43	4	9004	14678 S10	JW	358
	8 5	5 45 31.1179	0 3 28.463	37 44 20.93	4	9010	14722 S 2	AC	183
	8 5	5 45 31.1837	0 55 37.017	19 12 24.28	4	9001	17012 S 6	TA	765
	8 5	5 45 31.1849	22 54 8.462	61 52 15.82	4	9009	12745 S 8	FN	111
	8 5	5 45 35.1849	22 53 23.649	61 36 10.74	4	9009	12745 S 9	FN	112
	8 5	5 45 39.1182	0 2 0.438	37 4 57.32	4	9010	14722 S 3	AC	184
	8 5	5 45 39.1838	0 54 40.394	18 46 5.13	4	9001	17012 S 7	TA	105
	8 5	5 45 39.1850	22 52 39.507	61 19 59.88	4	9009	12745 S10	FN	113
	8 5	5 45 43.1849	22 51 55.571	61 3 41.69	4	9009	12745 S11	FN	114
	8 5	5 45 47.1192	0 0 34.209	36 25 23.06	4	9010	14722 S 4	DK	185
	8 5	5 45 47.1841	0 53 44.462	18 19 43.14	4	9001	17012 S 8	TA	106
	8 5	5 45 47.1848	22 51 12.511	60 47 23.80	4	9009	12745 S12	DK	115

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 8 5	5 45 51.1848	1	22 50 29.457	60 30 51.68	9009	12745 S13	DK	116
8 5	5 45 55.1198	1	23 59 9.300	35 45 31.04	9010	14722 S 5	DK	186
8 5	5 45 55.1840	1	0 52 49.296	17 53 15.89	9001	17012 S 9	TA	766
8 5	5 45 55.1848	1	22 49 47.241	60 14 22.41	9009	12745 S14	DK	767
8 5	5 46 3.1209	1	23 57 45.914	35 5 26.47	9010	14722 S 6	DK	187
8 5	5 46 3.1841	1	0 51 54.414	17 26 46.47	9001	17012 S10	TA	108
8 5	5 46 11.1221	1	23 56 23.817	34 25 8.90	9010	14722 S 7	DK	188
8 5	5 46 11.1840	1	0 51 0.461	17 0 9.52	9001	17012 S11	TA	109
8 5	5 46 19.1223	1	23 55 3.343	33 44 37.92	9010	14722 S 8	DK	189
8 5	5 46 19.1840	1	0 50 6.948	16 33 35.11	9001	17012 S12	TA	110
8 5	5 50 35.1607	1	23 21 21.942	11 0 20.06	9010	14723 S 5	PG	1551
8 5	5 50 43.1612	1	23 20 32.184	10 17 17.12	9010	14723 S 6	PG	1552
8 5	5 50 43.1855	1	22 14 16.755	36 49 13.64	9009	12746 S12	PG	1564
8 5	5 50 47.1855	1	22 13 55.573	36 26 54.08	9009	12746 S13	PG	1565
8 5	5 50 51.1622	1	23 19 43.030	9 34 25.71	9010	14723 S 7	PG	1553
8 5	5 50 51.1854	1	22 13 34.000	36 4 29.57	9009	12746 S14	PG	1566
8 5	5 50 55.1855	1	22 13 12.659	35 42 1.52	9009	12746 S15	PG	1567
8 5	5 50 59.1624	1	23 18 54.735	8 51 30.43	9010	14723 S 8	PG	1554
8 5	5 50 59.1856	1	22 12 51.506	35 19 27.44	9009	12746 S16	PG	1568
8 5	5 50 59.1876	1	0 24 28.708	0 46 6.43	9001	17013 S 3	PG	1558
8 5	5 51 3.1856	1	22 12 30.441	34 56 53.62	9009	12746 S17	PG	1569
8 5	5 51 7.1636	1	23 18 6.883	8 8 47.64	9010	14723 S 9	YK	1555
8 5	5 51 7.1857	1	22 12 9.451	34 34 15.60	9009	12746 S18	PG	1570
8 5	5 51 7.1872	1	0 23 53.172	0 19 4.64	9001	17013 S 4	PG	1559
8 5	5 51 15.1658	1	23 17 19.814	7 26 6.90	9010	14723 S10	YK	1556
8 5	5 51 15.1870	1	0 23 17.926	- 0 7 55.79	9001	17013 S 5	PG	1560
8 5	5 51 23.1674	1	23 16 33.099	6 43 39.36	9010	14723 S11	YK	1557
8 5	5 51 23.1871	1	0 22 43.006	- 0 34 53.65	9001	17013 S 6	PG	1561
8 5	5 51 31.1868	1	0 22 8.788	- 1 1 49.27	9001	17013 S 7	PG	1562
8 5	5 51 39.1869	1	0 21 34.633	- 1 28 45.68	9001	17013 S 8	PG	1563
8 6	9 23 7.1845	1	20 35 58.101	43 29 12.95	9001	17042 S 3	HP	1824
8 6	9 23 7.2018	1	19 14 26.921	32 41 58.76	9010	14749 S 3	JM	1818
8 6	9 23 15.1844	1	20 36 24.552	42 44 0.25	9001	17042 S 4	AM	1825
8 6	9 23 15.2020	1	19 15 16.236	32 13 29.37	9010	14749 S 4	JM	1819
8 6	9 23 23.1844	1	20 36 50.189	41 58 39.79	9001	17042 S 5	AM	1826
8 6	9 23 23.2024	1	19 16 4.495	31 44 56.56	9010	14749 S 5	JM	1820
8 6	9 23 31.1844	1	20 37 14.902	41 13 19.78	9001	17042 S 6	AM	1827
8 6	9 23 31.2032	1	19 16 51.867	31 16 23.78	9010	14749 S 6	HP	1821
8 6	9 23 39.1843	1	20 37 38.659	40 27 55.16	9001	17042 S 7	AM	1828
8 6	9 23 47.1840	1	20 38 1.394	39 42 27.09	9001	17042 S 8	AM	1829
8 6	9 23 47.2038	1	19 18 23.910	30 19 18.44	9010	14749 S 8	HP	1822
8 6	9 23 55.1839	1	20 38 23.223	38 56 58.52	9001	17042 S 9	AM	1830
8 6	9 23 55.2039	1	19 19 8.626	29 50 42.56	9010	14749 S 9	HP	1823
8 6	9 27 47.1829	1	0 59 43.150	25 21 49.01	9012	14742 S 3	DK	1705
8 6	9 27 47.1840	1	20 44 14.697	17 24 49.79	9001	17043 S 4	AM	1155

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 8 6	9 27 55.1831	1	0 58 45.461	24 53 51.01	4	9012	14742 S 4	DK	1162
8 6	9 27 55.1837	1	20 44 19.391	16 42 24.12	4	9001	17043 S 5	AM	1156
8 6	9 28 3.1832	1	0 57 48.489	24 25 49.20	4	9012	14742 S 5	DK	1163
8 6	9 28 3.1838	1	20 44 24.059	16 0 10.99	4	9001	17043 S 6	AM	1157
8 6	9 28 11.1832	1	0 56 52.201	23 57 37.01	4	9012	14742 S 6	DK	1164
8 6	9 28 11.1837	1	20 44 28.066	15 18 9.68	4	9001	17043 S 7	AM	1158
8 6	9 28 19.1835	1	0 55 56.480	23 29 14.95	4	9012	14742 S 7	DK	1165
8 6	9 28 19.1837	1	20 44 31.778	14 36 21.12	4	9001	17043 S 8	AM	1159
8 6	9 28 27.1834	1	0 55 1.394	23 0 48.36	4	9012	14742 S 8	DK	1166
8 6	9 28 27.1837	1	20 44 35.065	13 54 46.30	4	9001	17043 S 9	DK	1160
8 6	9 28 35.1835	1	0 54 7.087	22 32 11.49	4	9012	14742 S 9	AC	1167
8 6	9 28 35.1837	1	20 44 38.266	13 13 23.45	4	9001	17043 S10	DK	1161
8 7	7 28 59.1883	1	0 44 2.958	53 22 15.97	4	9001	17063 S 8	WC	1060
8 7	7 29 7.1883	1	0 41 31.819	52 49 6.65	4	9001	17063 S 9	WC	1061
8 7	7 29 15.1884	1	0 39 3.485	52 15 34.95	4	9001	17063 S10	WC	1062
8 7	7 29 23.0525	1	20 14 9.913	60 33 20.59	4	9010	14767 S 4	AM	1065
8 7	7 29 23.1885	1	0 36 38.475	51 41 36.25	4	9001	17063 S11	WC	1063
8 7	7 29 31.0522	1	20 15 14.597	59 54 17.78	4	9010	14767 S 5	AM	1066
8 7	7 29 31.1884	1	0 34 16.402	51 7 10.51	4	9001	17063 S12	WC	1064
8 7	7 29 39.0515	1	20 16 16.354	59 14 59.79	4	9010	14767 S 6	AM	1067
8 7	7 29 47.0507	1	20 17 15.789	58 35 23.79	4	9010	14767 S 7	AM	1068
8 7	7 33 31.0832	1	20 33 30.601	38 45 9.50	4	9010	14768 S 4	JV	1811
8 7	7 33 31.1875	1	23 41 54.747	31 21 41.94	4	9001	17064 S 5	JV	1805
8 7	7 33 39.0829	1	20 33 49.343	38 0 44.05	4	9010	14768 S 5	JV	1812
8 7	7 33 39.1876	1	23 40 38.005	30 38 37.70	4	9001	17064 S 6	JV	1836
8 7	7 33 47.0837	1	20 34 7.018	37 16 13.15	4	9010	14768 S 6	JV	1813
8 7	7 33 47.1875	1	23 39 22.504	29 55 26.08	4	9001	17064 S 7	JV	1807
8 7	7 33 55.0835	1	20 34 24.034	36 31 41.28	4	9010	14768 S 7	JV	1814
8 7	7 33 55.1876	1	23 38 8.502	29 12 5.03	4	9001	17064 S 8	JV	1808
8 7	7 34 3.0825	1	20 34 40.262	35 47 8.16	4	9010	14768 S 8	JV	1815
8 7	7 34 3.1876	1	23 36 55.669	28 28 42.15	4	9001	17064 S 9	JV	1809
8 7	7 34 11.0818	1	20 34 55.716	35 2 32.63	4	9010	14768 S 9	JV	2268
8 7	7 34 11.1877	1	23 35 44.272	27 45 10.53	4	9001	17064 S10	JV	1810
8 7	7 34 19.0810	1	20 35 10.706	34 17 56.68	4	9010	14768 S10	JV	1817
8 7	7 34 19.1877	1	23 34 33.976	27 1 37.16	4	9001	17064 S11	JV	2267
8 7	10 14 51.1853	1	2 1 45.139	57 8 10.77	4	9012	14764 S 4	EM	1076
8 7	10 14 51.1861	1	19 25 17.451	44 58 22.92	4	9001	17068 S 2	AC	1069
8 7	10 14 59.1856	1	1 59 9.992	56 49 13.05	4	9012	14764 S 5	AC	1077
8 7	10 14 59.1860	1	19 26 32.695	44 23 1.55	4	9001	17068 S 3	AC	1070
8 7	10 15 7.1854	1	1 56 37.362	56 29 54.76	4	9012	14764 S 6	AC	1078
8 7	10 15 7.1859	1	19 27 45.975	43 47 32.38	4	9001	17068 S 4	AC	1071
8 7	10 15 15.1854	1	1 54 6.033	56 10 10.45	4	9012	14764 S 7	AC	1079
8 7	10 15 15.1859	1	19 28 56.995	43 11 59.45	4	9001	17068 S 5	AC	1072
8 7	10 15 23.1856	1	1 51 37.189	55 50 6.40	4	9012	14764 S 8	AC	1080
8 7	10 15 23.1857	1	19 30 6.755	42 36 17.58	4	9001	17068 S 6	AC	1073

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.-NO.
1964 8 7	10 15 31.1856	1	1 49 9.998	55 29 42.40	9012	14764 S 9	AC	1081
8 7	10 15 31.1858	1	19 31 13.940	42 0 33.09	9001	17068 S 7	EM	1074
8 7	10 15 39.1856	1	1 46 44.956	55 8 54.68	9012	14764 S10	AC	1082
8 7	10 15 39.1859	1	19 32 19.781	41 24 42.28	9001	17068 S 8	EM	1075
8 7	10 19 23.1917	1	0 51 3.382	43 5 43.92	9012	14765 S 2	VD	921
8 7	10 19 31.1863	1	19 54 32.453	23 58 38.48	9001	17069 S10	VD	914
8 7	10 19 31.1913	1	0 49 27.311	42 35 7.43	9012	14765 S 3	VD	922
8 7	10 19 39.1862	1	19 55 3.161	23 23 15.87	9001	17069 S11	VD	915
8 7	10 19 39.1918	1	0 47 52.339	42 4 14.57	9012	14765 S 4	VD	923
8 7	10 19 47.1862	1	19 55 33.382	22 47 55.77	9001	17069 S12	VD	916
8 7	10 19 47.1914	1	0 46 18.787	41 33 3.31	9012	14765 S 5	VD	924
8 7	10 19 55.1862	1	19 56 2.435	22 12 44.84	9001	17069 S13	VD	917
8 7	10 20 3.1860	1	19 56 31.023	21 37 31.52	9001	17069 S14	VD	918
8 7	10 20 3.1913	1	0 43 15.927	40 29 50.41	9012	14765 S 7	VD	925
8 7	10 20 11.1861	1	19 56 58.709	21 2 30.33	9001	17069 S15	VD	919
8 7	10 20 11.1913	1	0 41 46.411	39 57 46.28	9012	14765 S 8	VD	926
8 7	10 20 19.1914	1	0 40 18.224	39 25 21.97	9012	14765 S 9	VD	927
8 7	10 20 27.1863	1	19 57 52.009	19 52 42.71	9001	17069 S17	VD	920
8 7	10 24 3.1848	1	20 6 2.499	5 3 35.99	9001	17070 S 3	AM	1209
8 7	10 24 3.1926	1	0 6 29.241	22 39 30.43	9012	14766 S 5	WI	1216
8 7	10 24 11.1849	1	20 6 13.755	4 32 47.83	9001	17070 S 4	AM	1210
8 7	10 24 11.1925	1	0 5 29.875	22 0 37.71	9012	14766 S 6	WI	1217
8 7	10 24 19.1847	1	20 6 24.733	4 2 10.79	9001	17070 S 5	AM	1211
8 7	10 24 19.1925	1	0 4 31.520	21 21 40.31	9012	14766 S 7	HP	1218
8 7	10 24 27.1848	1	20 6 35.314	3 31 41.66	9001	17070 S 6	AM	1212
8 7	10 24 27.1926	1	0 3 33.815	20 42 33.45	9012	14766 S 8	HP	1219
8 7	10 24 35.1846	1	20 6 45.131	3 1 22.86	9001	17070 S 7	WI	1213
8 7	10 24 35.1925	1	0 2 36.737	20 3 21.87	9012	14766 S 9	HP	1220
8 7	10 24 43.1846	1	20 6 55.075	2 31 14.86	9001	17070 S 8	WI	1214
8 7	10 24 43.1927	1	0 1 40.577	19 24 1.30	9012	14766 S10	HP	1711
8 7	10 24 51.1846	1	20 7 4.416	2 1 12.50	9001	17070 S 9	WI	1215
8 7	10 24 51.1927	1	0 0 44.963	18 44 30.96	9012	14766 S11	HP	1221
8 8	5 42 19.3007	1	23 52 1.562	35 35 2.73	9010	14791 S 5	WC	1727
8 8	5 42 27.1845	1	22 34 6.121	59 9 55.69	9009	12819 S15	WC	1723
8 8	5 42 27.3001	1	23 50 40.520	34 53 41.34	9010	14791 S 6	JW	1728
8 8	5 42 31.1848	1	22 33 31.487	58 52 39.40	9009	12819 S16	WC	1724
8 8	5 42 35.1846	1	22 32 57.326	58 35 16.22	9009	12819 S17	WC	1725
8 8	5 42 35.3002	1	23 49 21.102	34 12 14.34	9010	14791 S 7	JW	1729
8 8	5 42 39.1847	1	22 32 23.347	58 17 51.37	9009	12819 S18	WC	1726
8 8	5 42 43.2987	1	23 48 2.827	33 30 25.84	9010	14791 S 8	JW	1730
8 9	23 4 51.2249	1	1 56 11.595	40 11 57.28	9004	14787 S 2	BN	1712
8 9	23 4 59.2023	1	19 3 23.219	61 19 4.61	9008	18702 S 2	BN	1288
8 9	23 5 7.2029	1	19 5 44.061	60 46 52.01	9008	18702 S 3	BN	1289
8 9	23 5 7.2253	1	1 52 32.150	39 27 53.89	9004	14787 S 3	BN	1285
8 9	23 5 15.2029	1	19 8 0.273	60 14 19.07	9008	18702 S 4	BN	1290

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964	8 9 23 5 23.2033	1	19 10 12.077	59 41 20.93	4	9008	18702 S 5	BN	1291
	23 5 23.2256	1	1 48 57.357	38 42 55.73	4	9004	14787 S 4	BN	1286
	23 5 23.2040	1	19 14 22.567	58 34 33.65	4	9008	18702 S 7	BN	1292
	23 5 39.2254	1	1 45 27.570	37 57 4.14	4	9004	14787 S 5	BN	1287
	23 8 3.2249	1	1 17 20.963	30 28 17.22	4	9004	14788 S 2	SS	987
	23 8 27.1915	1	19 45 20.610	45 54 46.92	4	9008	18703 S 3	CR	992
	23 8 35.2253	1	1 11 52.530	28 41 11.06	4	9004	14788 S 4	SS	988
	23 8 43.1919	1	19 47 23.303	44 38 16.11	4	9008	18703 S 5	CR	1283
	23 8 51.1920	1	19 48 21.941	43 59 54.67	4	9008	18703 S 6	CR	994
	23 8 51.2254	1	1 9 14.160	27 46 45.95	4	9004	14788 S 5	SS	989
	23 8 59.1921	1	19 49 18.816	43 21 22.42	4	9008	18703 S 7	BA	995
	23 9 7.1921	1	19 50 14.320	42 42 46.44	4	9008	18703 S 8	BA	996
	23 9 7.2256	1	1 6 39.614	26 51 53.90	4	9004	14788 S 6	SS	990
	23 9 15.1924	1	19 51 8.034	42 4 2.92	4	9008	18703 S 9	BA	997
	23 9 23.1930	1	19 52 0.250	41 25 18.56	4	9008	18703 S10	BA	998
	23 9 23.2252	1	1 4 8.613	25 56 34.05	4	9004	14788 S 7	SS	991
	23 13 7.2093	1	20 8 33.235	23 12 34.40	4	9008	18704 S 3	LM	1101
	23 13 7.2319	1	0 34 37.001	12 29 7.46	4	9004	14789 S 3	LM	1097
	23 13 15.2090	1	20 8 56.042	22 34 12.54	4	9008	18704 S 4	LM	1102
	23 13 23.2094	1	20 9 17.791	21 55 59.04	4	9008	18704 S 5	LM	1965
	23 13 23.2316	1	0 32 51.732	11 30 20.76	4	9004	14789 S 4	LM	1098
	23 13 31.2095	1	20 9 39.102	21 17 48.19	4	9008	18704 S 6	LM	1714
	23 13 39.2097	1	20 9 59.748	20 39 46.28	4	9008	18704 S 7	LM	1104
	23 13 39.2316	1	0 31 8.972	10 31 33.54	4	9004	14789 S 5	LM	1099
	23 13 47.2100	1	20 10 19.896	20 1 54.10	4	9008	18704 S 8	LM	1105
	23 13 55.2312	1	0 29 28.537	9 32 46.11	4	9004	14789 S 6	LM	1100
	10 11 55.1877	1	19 32 36.425	40 16 38.09	4	9001	17100 S 2	LM	1571
	10 11 55.1913	1	1 44 54.686	56 17 11.70	4	9012	14808 S 5	LM	1578
	10 12 3.1875	1	19 33 39.629	39 41 29.77	4	9001	17100 S 3	LM	1572
	10 12 3.1914	1	1 42 25.538	55 55 39.07	4	9012	14808 S 6	LM	1579
	10 12 11.1876	1	19 34 41.337	39 6 16.97	4	9001	17100 S 4	LM	1573
	10 12 11.1913	1	1 39 59.440	55 33 47.42	4	9012	14808 S 7	LM	1580
	10 12 19.1875	1	19 35 41.165	38 31 5.50	4	9001	17100 S 5	LM	1574
	10 12 19.1915	1	1 37 34.744	55 11 31.71	4	9012	14808 S 8	LM	1581
	10 12 27.1876	1	19 36 39.877	37 55 47.00	4	9001	17100 S 6	LM	1575
	10 12 27.1916	1	1 35 12.094	54 48 51.12	4	9012	14808 S 9	LM	1582
	10 12 35.1877	1	19 37 36.911	37 20 25.16	4	9001	17100 S 7	LM	1576
	10 12 35.1916	1	1 32 51.349	54 25 51.32	4	9012	14808 S10	LM	1583
	10 12 43.1877	1	19 38 32.783	36 45 4.83	4	9001	17100 S 8	LM	1577
	10 12 43.1917	1	1 30 33.176	54 2 31.69	4	9012	14808 S11	LM	1584
	23 53 15.1990	1	16 46 10.825	64 32 41.59	4	9008	18725 S 6	AM	1974
	23 53 15.2083	1	4 8 54.826	61 1 55.09	4	9004	14814 S 2	HP	1498
	23 53 23.1986	1	16 50 8.548	64 19 45.10	4	9008	18725 S 7	AM	1975
	23 53 23.2084	1	4 5 9.443	60 57 23.08	4	9004	14814 S 3	HP	1499
	23 53 31.1987	1	16 54 3.226	64 6 20.31	4	9008	18725 S 8	AM	1505

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 8 10	23 53 31.2085	1	4 1 24.635	60 52 22.72	4	9004	14814 S 4	AM	1500
8 10	23 53 39.1992	1	16 57 54.444	63 52 25.03	4	9008	18725 S 9	WC	1976
8 10	23 53 39.2080	1	3 57 39.172	60 46 49.88	4	9004	14814 S 5	AM	1531
8 10	23 53 47.1987	1	17 1 42.271	63 37 54.58	4	9008	18725 S10	WC	1537
8 10	23 53 47.2086	1	3 53 54.072	60 40 47.72	4	9004	14814 S 6	AM	1502
8 10	23 53 55.1993	1	17 5 27.367	63 22 58.04	4	9008	18725 S11	WC	1508
8 10	23 53 55.2086	1	3 50 9.031	60 34 19.40	4	9004	14814 S 7	AM	1503
8 10	23 54 3.1992	1	17 9 8.228	63 7 29.41	4	9008	18725 S12	WC	1509
8 10	23 54 3.2087	1	3 46 23.579	60 27 15.91	4	9004	14814 S 8	AM	1504
8 10	23 56 43.2067	1	18 10 22.839	56 28 5.59	4	9008	18726 S 3	JW	1455
8 10	23 56 43.2078	1	2 35 10.862	56 18 20.83	4	9004	14815 S 2	RD	1449
8 10	23 56 51.2068	1	18 12 50.752	56 4 17.93	4	9008	18726 S 4	JW	1456
8 10	23 56 51.2078	1	2 31 54.859	56 0 33.08	4	9004	14815 S 3	RD	1450
8 10	23 56 59.2067	1	18 15 15.127	55 40 13.42	4	9008	18726 S 5	JW	1457
8 10	23 56 59.2078	1	2 28 41.381	55 42 15.83	4	9004	14815 S 4	RD	1451
8 10	23 57 7.2072	1	18 17 36.905	55 15 46.11	4	9008	18726 S 6	JW	1458
8 10	23 57 7.2080	1	2 25 30.315	55 23 26.28	4	9004	14815 S 5	RD	1452
8 10	23 57 15.2069	1	18 19 54.862	54 51 6.88	4	9008	18726 S 7	JW	1459
8 10	23 57 15.2081	1	2 22 20.767	55 4 5.21	4	9004	14815 S 6	RD	1453
8 10	23 57 23.2072	1	18 22 10.456	54 26 7.59	4	9008	18726 S 8	JW	1460
8 10	23 57 23.2080	1	2 19 14.205	54 44 21.63	4	9004	14815 S 7	RD	1454
8 10	23 57 31.2076	1	18 24 23.295	54 0 51.82	4	9008	18726 S 9	JW	1461
8 11	0 1 23.2102	1	1 3 42.668	41 33 56.77	4	9004	14817 S 3	KA	1940
8 11	0 1 23.2187	1	19 11 17.380	40 22 42.60	4	9008	18727 S 4	JW	1947
8 11	0 1 31.2101	1	1 1 45.107	41 2 2.22	4	9004	14817 S 4	KA	1941
8 11	0 1 31.2188	1	19 12 26.507	39 52 33.87	4	9008	18727 S 5	JW	1948
8 11	0 1 39.2100	1	0 59 49.187	40 29 49.61	4	9004	14817 S 5	KA	1942
8 11	0 1 39.2189	1	19 13 33.781	39 22 15.91	4	9008	18727 S 6	JW	1949
8 11	0 1 47.2102	1	0 57 55.578	39 57 24.66	4	9004	14817 S 6	KA	1943
8 11	0 1 47.2193	1	19 14 39.659	38 51 55.37	4	9008	18727 S 7	JW	1950
8 11	0 1 55.2102	1	0 56 3.348	39 24 35.66	4	9004	14817 S 7	KA	1944
8 11	0 1 55.2188	1	19 15 43.967	38 21 31.10	4	9008	18727 S 8	JW	1951
8 11	0 2 3.2101	1	0 54 13.003	38 51 36.07	4	9004	14817 S 8	KA	1945
8 11	0 2 3.2193	1	19 16 47.321	37 50 58.44	4	9008	18727 S 9	KA	1952
8 11	0 2 11.2100	1	0 52 24.346	38 18 21.93	4	9004	14817 S 9	JW	1946
8 11	0 2 11.2193	1	19 17 49.099	37 20 28.69	4	9008	18727 S10	KA	1953
8 11	5 38 51.1013	1	22 20 4.845	58 28 20.01	4	9009	12869 S 3	WC	1517
8 11	5 38 51.1920	1	0 52 3.382	17 3 22.75	4	9001	17108 S 7	WC	1510
8 11	5 38 59.1917	1	22 19 8.023	57 52 48.02	4	9009	12869 S 4	WC	1518
8 11	5 38 59.1920	1	0 51 8.322	16 35 31.81	4	9001	17108 S 8	WC	1511
8 11	5 39 7.1016	1	22 18 12.507	57 16 55.94	4	9009	12869 S 5	WC	3139
8 11	5 39 7.1920	1	0 50 14.071	16 7 37.61	4	9001	17108 S 9	WC	1512
8 11	5 39 15.1020	1	22 17 18.050	56 40 47.90	4	9009	12869 S 6	WC	1520
8 11	5 39 15.1920	1	0 49 20.297	15 39 41.00	4	9001	17108 S10	WC	1513
8 11	5 39 23.1020	1	22 16 24.407	56 4 17.88	4	9009	12869 S 7	WC	1521

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 8 11	5 39 23.1920	1	0 48 27.359	15 11 42.47	9001	17108 S11	KA	1514
8 11	5 39 39.1025	1	22 14 41.361	54 50 27.73	9009	12869 S 9	WC	1522
8 11	5 39 39.1919	1	0 46 42.849	14 15 32.74	9001	17108 S13	KA	1515
8 11	5 39 47.1026	1	22 13 50.826	54 13 6.08	9009	12869 S10	WC	1518
8 11	5 39 47.1918	1	0 45 51.468	13 47 27.07	9001	17108 S14	KA	1516
8 11	11 3 31.1927	1	19 1 56.807	40 36 40.87	9001	17115 S 6	YK	1293
8 11	11 3 31.1944	1	1 38 0.985	75 47 35.94	9012	14823 S 3	YK	1300
8 11	11 3 39.1927	1	19 3 13.440	40 9 13.03	9001	17115 S 7	YK	1294
8 11	11 3 39.1947	1	1 31 54.697	75 30 28.19	9012	14823 S 4	YK	1301
8 11	11 3 47.1926	1	19 4 28.450	39 41 40.73	9001	17115 S 8	YK	1295
8 11	11 3 47.1945	1	1 25 59.397	75 12 30.43	9012	14823 S 5	YK	1302
8 11	11 3 55.1924	1	19 5 41.683	39 14 4.20	9001	17115 S 9	YK	1296
8 11	11 3 55.1946	1	1 20 15.861	74 53 56.75	9012	14823 S 6	YK	1303
8 11	11 4 3.1926	1	19 6 53.901	38 46 21.08	9001	17115 S10	YK	1297
8 11	11 4 3.1946	1	1 14 43.666	74 34 40.23	9012	14823 S 7	YK	1304
8 11	11 4 11.1925	1	19 8 4.843	38 18 32.57	9001	17115 S11	YK	1298
8 11	11 4 11.1946	1	1 9 22.480	74 14 47.05	9012	14823 S 8	YK	1305
8 11	11 4 35.1928	1	19 11 28.582	36 55 5.08	9001	17115 S14	YK	1299
8 11	11 4 35.1947	1	0 54 21.751	73 11 2.61	9012	14823 S11	YK	1306
8 11	11 7 15.1867	1	19 29 39.485	27 32 39.00	9001	17116 S 3	HP	1435
8 11	11 7 15.1946	1	23 45 44.440	64 4 19.49	9012	14824 S 3	JV	1968
8 11	11 7 23.1947	1	23 43 21.122	63 32 6.95	9012	14824 S 4	JV	1443
8 11	11 7 31.1864	1	19 31 6.960	26 36 32.51	9001	17116 S 5	HP	1436
8 11	11 7 31.1947	1	23 41 2.151	62 59 33.75	9012	14824 S 5	JV	1444
8 11	11 7 39.1866	1	19 31 49.444	26 8 35.45	9001	17116 S 6	AC	1966
8 11	11 7 39.1948	1	23 38 47.090	62 26 31.23	9012	14824 S 6	JV	1445
8 11	11 7 47.1867	1	19 32 31.023	25 40 32.86	9001	17116 S 7	AC	1438
8 11	11 7 55.1867	1	19 33 11.511	25 12 38.06	9001	17116 S 8	AC	1967
8 11	11 7 55.1950	1	23 34 28.605	61 19 15.83	9012	14824 S 8	JV	1446
8 11	11 8 3.1870	1	19 33 51.801	24 44 46.11	9001	17116 S 9	AC	1440
8 11	11 8 3.1949	1	23 32 25.124	60 45 0.33	9012	14824 S 9	JV	1447
8 11	11 8 11.1870	1	19 34 30.915	24 16 50.82	9001	17116 S10	AC	1441
8 11	11 8 11.1951	1	23 30 25.293	60 10 21.68	9012	14824 S10	JV	1448
8 12	22 56 27.2102	1	3 17 6.476	50 53 25.00	9004	14830 S 3	GL	1599
8 12	22 56 35.2107	1	3 14 32.861	50 41 44.36	9004	14830 S 4	GL	1600
8 12	22 56 43.1757	1	16 42 41.338	73 12 15.67	9008	18767 S 6	GL	1603
8 12	22 56 43.2106	1	3 11 59.713	50 29 45.67	9004	14830 S 5	GL	1601
8 12	22 56 51.1757	1	16 48 58.525	72 59 31.17	9008	18767 S 7	GL	1604
8 12	22 56 51.2106	1	3 9 27.203	50 17 23.95	9004	14830 S 6	PK	3034
8 12	22 56 59.1759	1	16 55 8.512	72 45 57.86	9008	18767 S 8	GL	1605
8 12	22 57 7.1760	1	17 1 10.408	72 31 29.60	9008	18767 S 9	GL	1606
8 12	22 57 15.1760	1	17 7 4.006	72 16 15.20	9008	18767 S10	GL	1607
8 12	23 1 15.2115	1	1 56 8.869	40 33 39.51	9004	14831 S 3	GL	1234
8 12	23 1 23.2112	1	1 54 16.778	40 11 7.98	9004	14831 S 4	GL	1235
8 12	23 1 31.1803	1	19 7 15.686	58 45 17.32	9008	18768 S 5	GL	1238

DATE Y M D	TIME (A-1) H M S	RMS MS	R-A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 8 12	23 1 31.2116	1	1 52 25.598	39 48 23.16	9004	14831 S 5	GL	1236
8 12	23 1 39.1803	1	19 9 22.513	58 12 46.10	9008	18768 S 6	GL	1239
8 12	23 1 39.2116	1	1 50 36.015	39 25 24.41	9004	14831 S 6	GL	1237
8 12	23 1 47.1804	1	19 11 25.631	57 39 53.52	9008	18768 S 7	GL	1240
8 12	23 1 55.1808	1	19 13 25.568	57 6 44.87	9008	18768 S 8	GL	1241
8 12	23 2 3.1808	1	19 15 21.051	56 33 27.13	9008	18768 S 9	GL	1242
8 12	23 4 43.2071	1	1 13 58.916	29 39 15.54	9004	14832 S 3	VD	999
8 12	23 4 51.2071	1	1 12 36.417	29 11 42.29	9004	14832 S 4	VD	1030
8 12	23 4 59.1900	1	19 45 56.907	43 24 34.85	9008	18769 S 2	VD	1003
8 12	23 4 59.2073	1	1 11 15.106	28 43 59.01	9004	14832 S 5	VD	1001
8 12	23 5 7.1902	1	19 46 55.801	42 46 52.41	9008	18769 S 3	VD	1004
8 12	23 5 7.2073	1	1 9 54.814	28 16 3.67	9004	14832 S 6	VD	1032
8 12	23 5 15.1903	1	19 47 53.104	42 9 15.27	9008	18769 S 4	VD	1035
8 12	23 5 23.1904	1	19 48 48.658	41 31 26.78	9008	18769 S 5	VD	1006
8 12	23 8 27.2066	1	0 41 15.922	16 7 55.57	9004	14833 S 6	VD	1007
8 12	23 8 35.1932	1	20 4 52.254	26 15 36.47	9008	18770 S 4	VD	1012
8 12	23 8 35.2067	1	0 40 17.599	15 37 56.09	9004	14833 S 7	VD	1008
8 12	23 8 43.1935	1	20 5 20.096	25 37 45.18	9008	18770 S 5	VD	1013
8 12	23 8 43.2066	1	0 39 19.559	15 7 59.66	9004	14833 S 8	VD	1009
8 12	23 8 51.1936	1	20 5 47.273	24 59 57.00	9008	18770 S 6	VD	1014
8 12	23 8 51.2065	1	0 38 22.753	14 38 1.88	9004	14833 S 9	VD	1010
8 12	23 8 59.1939	1	20 6 13.536	24 22 15.80	9008	18770 S 7	VD	1015
8 12	23 8 59.2066	1	0 37 26.525	14 8 2.22	9004	14833 S10	VD	1011
8 12	23 11 39.1983	1	20 12 43.872	12 11 34.66	9008	18771 S 3	VD	1111
8 12	23 11 39.2122	1	0 20 49.784	4 9 16.07	9004	14834 S 3	VD	1106
8 12	23 11 47.1984	1	20 12 57.674	11 36 27.07	9008	18771 S 4	VD	1112
8 12	23 11 47.2121	1	0 20 5.682	3 39 38.31	9004	14834 S 4	VD	1715
8 12	23 11 55.1986	1	20 13 10.703	11 1 30.55	9008	18771 S 5	VD	1113
8 12	23 11 55.2121	1	0 19 22.292	3 10 0.25	9004	14834 S 5	VD	1108
8 12	23 12 3.1987	1	20 13 23.375	10 26 48.65	9008	18771 S 6	VD	1114
8 12	23 12 3.2121	1	0 18 39.286	2 40 31.43	9004	14834 S 6	VD	1109
8 12	23 12 11.1987	1	20 13 35.435	9 52 8.44	9008	18771 S 7	VD	1115
8 12	23 12 11.2122	1	0 17 56.971	2 11 1.28	9004	14834 S 7	VD	1110
8 13	10 6 51.1851	1	19 21 21.940	44 50 15.62	9001	17129 S 6	JW	1398
8 13	10 6 51.1923	1	2 10 15.036	60 43 22.36	9012	14861 S 2	JV	1405
8 13	10 6 59.1849	1	19 22 41.263	44 16 43.00	9001	17129 S 7	JW	1399
8 13	10 6 59.1923	1	2 7 16.578	60 25 24.52	9012	14861 S 3	JV	1988
8 13	10 7 7.1848	1	19 23 58.484	43 43 1.61	9001	17129 S 8	JV	1400
8 13	10 7 7.1925	1	2 4 21.061	60 7 8.98	9012	14861 S 4	JV	1406
8 13	10 7 15.1849	1	19 25 13.949	43 9 10.80	9001	17129 S 9	JV	1401
8 13	10 7 15.1926	1	2 1 28.021	59 48 28.17	9012	14861 S 5	JV	1407
8 13	10 7 23.1848	1	19 26 27.716	42 35 27.50	9001	17129 S10	JV	1402
8 13	10 7 23.1927	1	1 58 36.960	59 29 22.71	9012	14861 S 6	JV	1408
8 13	10 7 31.1848	1	19 27 39.378	42 1 30.17	9001	17129 S11	JV	1403
8 13	10 7 31.1928	1	1 55 48.279	59 9 48.63	9012	14861 S 7	JV	1409

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 8 13	1C 7 39.1850	1	19 28 49.744	41 27 25.76	4	9001	17129 S12	JV	1404
8 13	1C 7 39.1928	1	1 53 2.428	58 49 55.81	4	9012	14861 S 8	JV	1410
8 13	1C 10 35.1949	1	1 1 36.388	49 53 17.34	4	9012	14862 S 3	WI	1417
8 13	1C 10 35.2008	1	19 48 30.767	28 49 20.61	4	9001	17130 S10	KA	1411
8 13	1C 10 43.1950	1	0 59 40.137	49 24 38.31	4	9012	14862 S 4	WI	1418
8 13	1C 10 43.2005	1	19 49 11.104	28 14 59.90	4	9001	17130 S11	KA	1412
8 13	1C 10 51.1952	1	0 57 45.314	48 55 38.00	4	9012	14862 S 5	WI	1419
8 13	1C 10 51.2007	1	19 49 50.525	27 40 40.43	4	9001	17130 S12	KA	1413
8 13	1C 10 59.1952	1	0 55 52.176	48 26 16.04	4	9012	14862 S 6	HP	1420
8 13	1C 10 59.2006	1	19 50 28.717	27 6 23.96	4	9001	17130 S13	KA	1414
8 13	1C 11 7.1952	1	0 54 1.169	47 56 34.04	4	9012	14862 S 7	HP	1421
8 13	1C 11 7.2007	1	19 51 6.567	26 32 14.43	4	9001	17130 S14	WI	1415
8 13	1C 11 15.1953	1	0 52 11.666	47 26 29.15	4	9012	14862 S 8	HP	1422
8 13	1C 11 15.2007	1	19 51 42.873	25 58 4.48	4	9001	17130 S15	WI	1989
8 13	1C 15 15.1931	1	20 4 28.458	9 38 23.06	4	9001	17131 S 6	VD	1243
8 13	1C 15 15.1956	1	0 8 49.281	30 1 12.49	4	9012	14863 S 4	VD	1248
8 13	1C 15 23.1957	1	0 7 40.882	29 22 17.40	4	9012	14863 S 5	VD	1249
8 13	1C 15 31.1930	1	20 5 0.793	8 36 59.68	4	9001	17131 S 8	VD	1244
8 13	1C 15 31.1959	1	0 6 33.657	28 43 4.46	4	9012	14863 S 6	VD	1250
8 13	1C 15 39.1929	1	20 5 16.477	8 6 29.48	4	9001	17131 S 9	VD	1245
8 13	1C 15 39.1960	1	0 5 27.278	28 3 45.95	4	9012	14863 S 7	VD	1251
8 13	1C 15 47.1929	1	20 5 31.336	7 36 10.77	4	9001	17131 S10	VD	1246
8 13	1C 15 47.1960	1	0 4 21.696	27 24 9.96	4	9012	14863 S 8	VD	1252
8 13	1C 15 55.1930	1	20 5 46.287	7 5 59.90	4	9001	17131 S11	VD	1247
8 13	1C 15 55.1961	1	0 3 17.234	26 44 26.22	4	9012	14863 S 9	VD	1253
8 15	9 14 59.1982	1	20 33 13.585	23 57 53.03	4	9001	17144 S 5	EM	1179
8 15	9 14 59.2009	1	1 12 54.784	32 40 58.20	4	9012	14889 S 3	EM	1186
8 15	9 15 7.1982	1	20 33 30.663	23 16 27.53	4	9001	17144 S 6	EM	1180
8 15	9 15 7.2011	1	1 11 43.716	32 13 12.92	4	9012	14889 S 4	EM	1187
8 15	9 15 15.1980	1	20 33 47.346	22 35 9.61	4	9001	17144 S 7	EM	1181
8 15	9 15 15.2011	1	1 10 33.228	31 45 7.81	4	9012	14889 S 5	EM	1188
8 15	9 15 23.1982	1	20 34 3.051	21 54 1.96	4	9001	17144 S 8	EM	1182
8 15	9 15 23.2013	1	1 9 23.662	31 16 57.29	4	9012	14889 S 6	EM	1189
8 15	9 15 31.1982	1	20 34 18.504	21 13 1.46	4	9001	17144 S 9	EM	1183
8 15	9 15 31.2011	1	1 8 15.022	30 48 34.34	4	9012	14889 S 7	JV	1190
8 15	9 15 39.1980	1	20 34 33.295	20 32 11.85	4	9001	17144 S10	EM	1184
8 15	9 15 47.1984	1	20 34 47.510	19 51 29.21	4	9001	17144 S11	EM	1185
8 15	9 15 47.2012	1	1 5 59.871	29 51 12.08	4	9012	14889 S 9	JV	1191
8 17	5 27 15.0626	1	0 21 35.751	56 1 53.69	4	9010	14861 S 4	DM	1592
8 17	5 27 15.1975	1	22 23 22.645	74 17 53.70	4	9009	12970 S 6	BN	1585
8 17	5 27 23.0632	1	0 19 16.839	55 27 23.05	4	9010	14861 S 5	DM	1593
8 17	5 27 23.1975	1	22 21 53.610	73 49 46.68	4	9009	12970 S 7	BN	1586
8 17	5 27 31.0637	1	0 17 1.263	54 52 24.88	4	9010	14861 S 6	DM	1594
8 17	5 27 31.1976	1	22 20 29.448	73 21 25.66	4	9009	12970 S 8	BN	1587
8 17	5 27 39.0637	1	0 14 48.811	54 17 0.54	4	9010	14861 S 7	DM	1595

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964	8 17	5 27 39.1976	1	22 19 8.599	72 52 45.14	4	12970 S 9	BN	1588
	8 17	5 27 47.0651	1	0 12 39.678	53 41 15.41	4	14861 S 8	DM	1596
	8 17	5 27 47.1977	1	22 17 50.589	72 23 57.42	4	12970 S10	BN	1589
	8 17	5 27 55.0662	1	0 10 33.581	53 5 3.29	4	14861 S 9	DM	1597
	8 17	5 27 55.1977	1	22 16 36.603	71 54 50.28	4	12970 S11	BN	1590
	8 17	5 28 3.0660	1	0 8 30.539	52 28 25.01	4	14861 S10	DM	1598
	8 17	5 28 3.1979	1	22 15 24.339	71 25 27.77	4	12970 S12	BN	1591
	8 17	8 15 31.2019	1	21 44 59.950	38 5 48.09	4	17181 S 5	FI	591
	8 17	8 15 39.2019	1	21 44 41.757	37 16 48.15	4	17181 S 6	FI	592
	8 17	8 15 47.2021	1	21 44 24.090	36 27 50.47	4	17181 S 7	FI	593
	8 17	8 15 55.2021	1	21 44 6.181	35 38 49.00	4	17181 S 8	FI	594
	8 17	8 16 3.1763	1	19 42 40.614	29 11 52.12	4	14866 S 4	FI	598
	8 17	8 16 3.2022	1	21 43 48.901	34 49 47.00	4	17181 S 9	FI	595
	8 17	8 16 11.1772	1	19 43 18.863	28 39 5.50	4	14866 S 5	FI	599
	8 17	8 16 11.2023	1	21 43 31.782	34 0 48.02	4	17181 S10	FI	596
	8 17	8 16 19.1778	1	19 43 56.320	28 6 16.07	4	14866 S 6	FI	600
	8 17	8 16 19.2023	1	21 43 14.518	33 11 50.64	4	17181 S11	FI	597
	8 17	8 16 27.1785	1	19 44 32.840	27 33 32.58	4	14866 S 7	FI	601
	8 17	8 16 35.1790	1	19 45 8.440	27 0 49.34	4	14866 S 8	FI	602
	8 17	8 16 43.1799	1	19 45 43.205	26 28 4.48	4	14866 S 9	FI	603
	8 17	8 16 51.1808	1	19 46 17.305	25 55 26.55	4	14866 S10	FI	604
	8 18	3 40 3.1814	1	1 3 12.744	20 38 53.16	4	14881 S 2	DM	1135
	8 18	3 40 3.2024	1	1 8 31.332	41 57 47.45	4	12988 S 5	DM	1128
	8 18	3 40 11.1807	1	1 2 16.528	20 10 37.32	4	14881 S 3	DM	1136
	8 18	3 40 11.2027	1	1 7 12.854	41 31 4.92	4	12988 S 6	DM	1129
	8 18	3 40 19.1805	1	1 1 20.863	19 42 23.82	4	14881 S 4	DM	1137
	8 18	3 40 19.2025	1	1 5 55.520	41 4 7.41	4	12988 S 7	DM	1130
	8 18	3 40 27.1799	1	1 0 25.897	19 13 57.40	4	14881 S 5	DM	1138
	8 18	3 40 27.2028	1	1 4 39.138	40 36 56.84	4	12988 S 8	DM	1131
	8 18	3 40 35.1804	1	0 59 31.434	18 45 30.74	4	14881 S 6	DM	1139
	8 18	3 40 35.2030	1	1 3 23.736	40 9 29.96	4	12988 S 9	DM	1132
	8 18	3 40 43.1802	1	0 58 37.519	18 16 54.53	4	14881 S 7	DM	1140
	8 18	3 40 43.2028	1	1 2 9.094	39 41 46.66	4	12988 S10	DM	1133
	8 18	3 40 51.1792	1	0 57 44.516	17 48 15.46	4	14881 S 8	DM	1141
	8 18	3 40 51.2031	1	1 0 55.302	39 13 54.04	4	12988 S11	DM	1134
	8 18	6 24 51.1695	1	21 42 12.274	39 50 7.50	4	14885 S 5	FI	395
	8 18	6 24 51.1996	1	20 2 7.966	51 59 40.47	4	12989 S 6	AM	444
	8 18	6 24 51.2025	1	0 25 45.910	25 11 51.83	4	17193 S 5	SO	437
	8 18	6 24 55.1994	1	20 2 27.928	51 42 4.31	4	12989 S 7	AM	445
	8 18	6 24 59.1690	1	21 41 53.401	39 2 6.74	4	14885 S 6	FI	396
	8 18	6 24 59.1997	1	20 2 47.580	51 25 47.06	4	12989 S 8	AM	446
	8 18	6 24 59.2026	1	0 24 33.307	24 34 42.41	4	17193 S 6	SO	438
	8 18	6 25 3.1994	1	20 3 6.842	51 8 51.44	4	12989 S 9	AM	447
	8 18	6 25 7.1682	1	21 41 34.953	38 14 4.00	4	14885 S 7	FI	397
	8 18	6 25 7.1997	1	20 3 25.911	50 51 46.99	4	12989 S10	AM	448

DATE Y M D	TIME (A-1) F M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 8 18	6 25 7.2026	1	0 23 21.863	23 57 30.80	9001	17193 S 7	SD	439
8 18	6 25 11.1994	1	20 3 44.783	50 34 43.89	9009	12989 S 11	AM	449
8 18	6 25 15.1670	1	21 41 16.763	37 25 52.36	9010	14885 S 8	FI	398
8 18	6 25 15.1997	1	20 4 3.044	50 17 35.30	9009	12989 S 12	AM	450
8 18	6 25 15.2026	1	0 22 11.230	23 20 14.66	9001	17193 S 8	SD	440
8 18	6 25 23.1671	1	21 40 58.541	36 37 39.31	9010	14885 S 9	FI	399
8 18	6 25 23.2024	1	0 21 1.731	22 42 47.82	9001	17193 S 9	JW	768
8 18	6 25 31.1667	1	21 40 40.575	35 49 19.96	9010	14885 S 10	FI	400
8 18	6 25 31.2024	1	0 19 53.334	22 5 19.15	9001	17193 S 10	JW	442
8 18	6 25 39.1673	1	21 40 22.589	35 0 58.52	9010	14885 S 11	FI	431
8 18	6 25 39.2023	1	0 18 45.656	21 27 47.95	9001	17193 S 11	AM	443
8 18	22 53 23.1904	1	18 56 50.942	58 26 35.78	9004	18886 S 2	HP	1429
8 18	22 53 23.2159	1	2 5 7.793	43 13 22.34	9004	14933 S 5	AC	1423
8 18	22 53 31.1904	1	18 59 7.159	57 56 16.84	9008	18886 S 3	HP	1430
8 18	22 53 31.2159	1	2 3 4.674	42 50 56.66	9004	14933 S 4	AC	1424
8 18	22 53 39.1907	1	19 1 19.587	57 25 40.29	9008	18886 S 4	EM	1431
8 18	22 53 39.2161	1	2 1 3.155	42 28 15.97	9004	14933 S 5	AC	1425
8 18	22 53 47.1908	1	19 3 28.259	56 54 42.72	9008	18886 S 5	EM	1432
8 18	22 53 55.1909	1	19 5 33.562	56 23 32.41	9008	18886 S 6	EM	1433
8 18	22 53 55.2161	1	1 57 4.303	41 42 2.06	9004	14933 S 7	AC	1426
8 18	22 54 3.1912	1	19 7 35.152	55 52 7.77	9008	18886 S 7	EM	1434
8 18	22 54 3.2160	1	1 55 7.374	41 18 28.52	9004	14933 S 8	AC	1437
8 18	22 54 11.2157	1	1 53 10.943	40 54 41.91	9004	14933 S 9	HP	1427
8 18	22 54 19.2157	1	1 51 16.798	40 30 36.93	9004	14933 S 10	HP	1428
8 18	23 2 27.2023	1	20 7 55.741	18 47 24.21	9008	18888 S 2	JW	287
8 18	23 2 27.2173	1	0 30 31.825	10 50 48.80	9004	14935 S 3	JV	294
8 18	23 2 35.2023	1	20 8 17.918	18 12 21.60	9008	18888 S 3	JW	288
8 18	23 2 35.2174	1	0 29 39.311	10 19 26.88	9004	14935 S 4	JV	295
8 18	23 2 43.2023	1	20 8 39.079	17 37 33.24	9008	18888 S 4	JW	289
8 18	23 2 43.2174	1	0 28 47.396	9 48 13.06	9004	14935 S 5	JV	296
8 18	23 2 51.2025	1	20 8 59.715	17 2 53.39	9008	18888 S 5	JW	290
8 18	23 2 51.2172	1	0 27 56.334	9 16 55.87	9004	14935 S 6	JV	297
8 18	23 2 59.2029	1	20 9 20.211	16 28 15.04	9008	18888 S 6	JW	291
8 18	23 2 59.2174	1	0 27 5.822	8 45 41.46	9004	14935 S 7	JV	298
8 18	23 3 7.2027	1	20 9 39.703	15 53 44.56	9008	18888 S 7	JW	292
8 18	23 3 7.2173	1	0 26 15.749	8 14 26.62	9004	14935 S 8	JV	299
8 18	23 3 15.2033	1	20 9 58.806	15 19 23.89	9008	18888 S 8	JV	293
8 18	23 3 15.2174	1	0 25 26.485	7 43 15.41	9004	14935 S 9	JV	300
8 19	7 17 39.2018	1	19 15 34.504	45 39 52.32	9009	13005 S 3	PG	1148
8 19	7 17 47.2020	1	19 16 29.285	45 12 2.93	9009	13005 S 4	PG	1149
8 19	7 17 55.2018	1	19 17 23.217	44 44 8.64	9009	13005 S 5	PG	1150
8 19	7 17 55.5717	1	20 15 57.895	38 1 38.49	9010	14900 S 6	PG	1142
8 19	7 18 3.2018	1	19 18 15.503	44 16 6.57	9009	13005 S 6	PG	1151
8 19	7 18 3.5714	1	20 16 31.754	37 20 58.77	9010	14900 S 7	PG	1143
8 19	7 18 11.2020	1	19 19 6.674	43 47 59.70	9009	13005 S 7	PG	1152

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 8 19	7 18 11.5703	1	20 17 4.805	36 40 16.57	4	9010	14900 S 8	PG	1144
8 19	7 18 19.2032	1	19 19 56.705	43 19 43.94	4	9009	13005 S 8	PG	1153
8 19	7 18 19.5705	1	20 17 36.637	35 59 28.17	4	9010	14900 S 9	PG	1145
8 19	7 18 27.2023	1	19 20 46.085	42 51 21.41	4	9009	13005 S 9	PG	1154
8 19	7 18 27.5720	1	20 18 7.710	35 18 42.32	4	9010	14900 S10	PG	1146
8 19	7 18 35.5727	1	20 18 37.517	34 37 52.95	4	9010	14900 S11	PG	1147
8 19	10 4 3.2000	1	19 54 30.303	23 25 42.27	4	9001	17220 S 3	VD	1487
8 19	10 4 3.2021	1	0 38 32.770	48 12 39.08	4	9012	14911 S 5	VD	1492
8 19	10 4 11.2000	1	19 55 4.124	22 53 30.63	4	9001	17220 S 4	VD	1488
8 19	10 4 11.2023	1	0 36 46.020	47 39 59.75	4	9012	14911 S 6	VD	1493
8 19	10 4 19.2001	1	19 55 37.104	22 21 21.77	4	9001	17220 S 5	VD	1489
8 19	10 4 19.2023	1	0 35 1.658	47 7 3.73	4	9012	14911 S 7	VD	1494
8 19	10 4 27.2002	1	19 56 9.240	21 49 16.09	4	9001	17220 S 6	VD	1490
8 19	10 4 35.2003	1	19 56 40.457	21 17 16.35	4	9001	17220 S 7	VD	1491
8 19	10 4 35.2024	1	0 31 37.414	46 0 3.44	4	9012	14911 S 9	VD	1495
8 19	10 4 43.2025	1	0 29 58.288	45 26 8.16	4	9012	14911 S10	VD	1496
8 19	23 46 27.2203	1	2 10 12.743	57 22 10.36	4	9004	14964 S 5	WI	1716
8 19	23 46 35.1564	1	18 40 52.939	49 39 14.59	4	9008	18908 S 5	AM	1958
8 19	23 46 35.2205	1	2 6 51.214	56 59 45.96	4	9004	14964 S 6	WI	1717
8 19	23 46 43.1570	1	18 42 41.299	49 13 50.63	4	9008	18908 S 6	AM	1959
8 19	23 46 43.2205	1	2 3 33.099	56 36 45.82	4	9004	14964 S 7	WI	1718
8 19	23 46 51.1579	1	18 44 27.565	48 48 12.33	4	9008	18908 S 7	AM	1960
8 19	23 46 51.2205	1	2 0 17.770	56 13 13.18	4	9004	14964 S 8	WI	1719
8 19	23 46 59.1585	1	18 46 11.745	48 22 26.35	4	9008	18908 S 8	AM	1722
8 19	23 46 59.2206	1	1 57 5.401	55 49 10.57	4	9004	14964 S 9	WI	1720
8 19	23 47 7.2206	1	1 53 56.199	55 24 37.08	4	9004	14964 S10	WI	1721
8 22	7 15 7.2110	1	23 7 9.108	30 54 38.50	4	9001	17241 S 4	AM	539
8 22	7 15 7.2555	1	20 17 15.431	32 20 44.91	4	9010	14931 S 4	DK	546
8 22	7 15 15.2109	1	23 6 10.188	30 7 21.42	4	9001	17241 S 5	AM	540
8 22	7 15 15.2562	1	20 17 43.978	31 40 54.69	4	9010	14931 S 5	DK	547
8 22	7 15 23.2112	1	23 5 12.351	29 20 5.48	4	9001	17241 S 6	WI	541
8 22	7 15 23.2583	1	20 18 12.147	31 1 4.99	4	9010	14931 S 6	DK	548
8 22	7 15 31.2112	1	23 4 15.581	28 32 47.98	4	9001	17241 S 7	WI	542
8 22	7 15 31.2601	1	20 18 39.078	30 21 10.43	4	9010	14931 S 7	DK	549
8 22	7 15 39.2112	1	23 3 20.048	27 45 30.51	4	9001	17241 S 8	WI	543
8 22	7 15 39.2611	1	20 19 5.633	29 41 22.63	4	9010	14931 S 8	JV	550
8 22	7 15 47.2112	1	23 2 25.065	26 58 7.62	4	9001	17241 S 9	WI	544
8 22	7 15 47.2627	1	20 19 30.711	29 1 35.65	4	9010	14931 S 9	JV	1279
8 22	7 15 55.2111	1	23 1 31.110	26 10 49.23	4	9001	17241 S10	WI	545
8 22	7 15 55.2644	1	20 19 55.383	28 21 49.29	4	9010	14931 S10	JV	552
8 22	10 0 3.1943	1	0 36 3.378	50 10 5.11	4	9012	14971 S 4	JV	407
8 22	10 0 3.2135	1	19 54 30.366	23 49 37.01	4	9001	17245 S 3	JW	402
8 22	10 0 11.1945	1	0 34 12.483	49 37 22.29	4	9012	14971 S 5	JV	408
8 22	10 0 11.2133	1	19 55 5.318	23 18 5.65	4	9001	17245 S 4	JW	403
8 22	10 0 19.1944	1	0 32 23.806	49 4 23.03	4	9012	14971 S 6	JV	409

DATE	TIME (A-1)	RMS	R.A. (1950.0)	DECL. (1950.0)	RMS	STATION	FRAME NO.	MS	OBS. NO.
Y M D	H M S	MS	H M S	D M S	S				
1964									
8 22	10 0 19.2135	1	19 55 39.310	22 46 37.92	4	9001	17245 S 5	JW	404
8 22	10 0 27.1947	1	0 30 37.344	48 30 52.81	4	9012	14971 S 7	JV	410
8 22	10 0 27.2134	1	19 56 12.519	22 15 13.57	4	9001	17245 S 6	JW	772
8 22	10 0 35.1944	1	0 28 52.313	47 57 8.23	4	9012	14971 S 8	JV	411
8 22	10 0 35.2135	1	19 56 45.450	21 43 53.49	4	9001	17245 S 7	JW	405
8 22	10 0 43.1946	1	0 27 9.413	47 22 56.50	4	9012	14971 S 9	JV	412
8 22	10 0 43.2136	1	19 57 17.230	21 12 35.62	4	9001	17245 S 8	JW	406
8 24	22 44 11.2024	1	18 27 4.737	61 36 29.86	4	9008	18981 S 2	RD	889
8 24	22 44 11.2291	1	2 38 6.138	49 25 55.10	4	9004	15091 S 4	EM	1273
8 24	22 44 19.2026	1	18 30 0.967	61 10 59.70	4	9008	18981 S 3	RD	1276
8 24	22 44 19.2292	1	2 35 35.139	49 7 7.20	4	9004	15091 S 5	EM	884
8 24	22 44 27.2027	1	18 32 53.394	60 45 16.44	4	9008	18981 S 4	RD	1277
8 24	22 44 27.2292	1	2 33 5.433	48 48 1.19	4	9004	15091 S 6	EM	1274
8 24	22 44 35.2028	1	18 35 40.246	60 19 6.17	4	9008	18981 S 5	AC	1278
8 24	22 44 35.2293	1	2 30 37.479	48 28 27.54	4	9004	15091 S 7	RD	886
8 24	22 44 43.2030	1	18 38 22.948	59 52 32.22	4	9008	18981 S 6	AC	893
8 24	22 44 43.2294	1	2 28 11.007	48 8 36.62	4	9004	15091 S 8	RD	887
8 24	22 44 51.2028	1	18 41 1.708	59 25 38.28	4	9008	18981 S 7	AC	894
8 24	22 44 51.2293	1	2 25 46.633	47 48 22.34	4	9004	15091 S 9	RD	1275
8 24	22 46 19.2039	1	19 5 54.357	54 8 59.48	4	9008	18982 S 2	YK	1481
8 24	22 46 19.2296	1	2 0 59.141	43 44 6.47	4	9004	15092 S 2	SU	1969
8 24	22 46 27.2039	1	19 7 49.571	53 38 31.05	4	9008	18982 S 3	YK	1482
8 24	22 46 27.2299	1	1 58 53.634	43 20 2.69	4	9004	15092 S 3	SU	1475
8 24	22 46 35.2039	1	19 9 41.988	53 7 53.15	4	9008	18982 S 4	YK	1483
8 24	22 46 35.2298	1	1 56 49.353	42 55 40.64	4	9004	15092 S 4	SU	1476
8 24	22 46 43.2041	1	19 11 31.091	52 36 59.85	4	9008	18982 S 5	YK	1484
8 24	22 46 43.2300	1	1 54 46.405	42 30 58.60	4	9004	15092 S 5	SU	1970
8 24	22 46 51.2041	1	19 13 18.212	52 5 47.59	4	9008	18982 S 6	YK	1972
8 24	22 46 51.2299	1	1 52 45.759	42 5 57.66	4	9004	15092 S 6	SU	1478
8 24	22 46 59.2043	1	19 15 1.899	51 34 28.24	4	9008	18982 S 7	YK	1973
8 24	22 46 59.2301	1	1 50 46.027	41 40 44.53	4	9004	15092 S 7	SU	1479
8 24	22 47 7.2045	1	19 16 43.072	51 2 47.92	4	9008	18982 S 8	YK	1486
8 24	22 47 7.2300	1	1 48 48.130	41 15 15.09	4	9004	15092 S 8	SU	1971
8 24	22 49 55.2084	1	19 43 47.779	39 24 15.21	4	9008	18983 S 3	FI	1979
8 24	22 49 55.2295	1	1 12 59.395	31 24 8.22	4	9004	15093 S 3	EM	1523
8 24	22 50 3.2087	1	19 44 45.327	38 49 53.11	4	9008	18983 S 4	FI	1980
8 24	22 50 3.2296	1	1 11 31.340	30 53 48.48	4	9004	15093 S 4	EM	1524
8 24	22 50 11.2085	1	19 45 42.136	38 15 23.61	4	9008	18983 S 5	FI	1532
8 24	22 50 11.2296	1	1 10 4.284	30 23 16.41	4	9004	15093 S 5	EM	1525
8 24	22 50 19.2087	1	19 46 37.420	37 40 53.66	4	9008	18983 S 6	RD	1533
8 24	22 50 19.2299	1	1 8 38.741	29 52 42.40	4	9004	15093 S 6	AC	1526
8 24	22 50 27.2088	1	19 47 31.502	37 6 16.83	4	9008	18983 S 7	RD	1534
8 24	22 50 27.2297	1	1 7 14.412	29 21 52.97	4	9004	15093 S 7	AC	1527
8 24	22 50 35.2089	1	19 48 24.483	36 31 45.79	4	9008	18983 S 8	RD	1535
8 24	22 50 35.2295	1	1 5 50.974	28 50 58.49	4	9004	15093 S 8	AC	1528

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 8 24	22 50 43.2093	1	19 49 15.891	35 57 4.92	9008	18983 S 9	RD	1536
8 24	22 50 43.2297	1	1 4 28.672	28 19 55.19	9004	15093 S 9	AC	1529
8 25	23 41 55.2096	1	19 18 18.781	38 21 1.99	9008	19005 S 2	EM	2271
8 25	23 41 55.2310	1	0 59 42.217	49 1 10.13	9004	15123 S 5	DK	1731
8 25	23 42 3.2093	1	19 19 25.096	37 53 54.19	9008	19005 S 3	EM	2272
8 25	23 42 3.2309	1	0 57 22.140	48 26 54.27	9004	15123 S 6	DK	1732
8 25	23 42 11.2095	1	19 20 30.133	37 26 46.26	9008	19005 S 4	EM	1983
8 25	23 42 11.2307	1	0 55 4.977	47 52 13.31	9004	15123 S 7	DK	1733
8 25	23 42 19.2096	1	19 21 34.022	36 59 28.19	9008	19005 S 5	EM	1984
8 25	23 42 19.2311	1	0 52 50.560	47 17 16.71	9004	15123 S 8	DK	1734
8 25	23 42 27.2097	1	19 22 36.666	36 32 8.82	9008	19005 S 6	EM	1985
8 25	23 42 27.2306	1	0 50 38.727	46 41 52.78	9004	15123 S 9	DK	1735
8 25	23 42 35.2098	1	19 23 38.116	36 4 46.62	9008	19005 S 7	EM	1986
8 25	23 42 35.2307	1	0 48 29.596	46 6 10.97	9004	15123 S10	DK	1736
8 25	23 42 43.2101	1	19 24 38.171	35 37 24.99	9008	19005 S 8	EM	1987
8 25	23 42 43.2309	1	0 46 23.289	45 30 7.82	9004	15123 S11	DK	1737
8 27	8 55 31.2034	1	20 4 38.970	43 7 39.55	9001	17314 S 5	YK	1963
8 27	8 55 31.2137	1	2 5 5.747	50 14 4.12	9012	15080 S 5	BN	485
8 27	8 55 39.2034	1	20 5 37.628	42 29 8.40	9001	17314 S 6	YK	479
8 27	8 55 39.2137	1	2 3 5.166	49 52 47.16	9012	15080 S 6	BN	486
8 27	8 55 47.2035	1	20 6 34.680	41 50 27.89	9001	17314 S 7	YK	480
8 27	8 55 47.2137	1	2 1 6.529	49 31 14.65	9012	15080 S 7	BN	487
8 27	8 55 55.2034	1	20 7 29.901	41 11 47.86	9001	17314 S 8	YK	481
8 27	8 55 55.2139	1	1 59 9.168	49 9 27.87	9012	15080 S 8	BN	488
8 27	8 56 3.2034	1	20 8 23.735	40 33 2.07	9001	17314 S 9	YK	482
8 27	8 56 3.2138	1	1 57 13.130	48 47 20.99	9012	15080 S 9	BN	489
8 27	8 56 11.2034	1	20 9 16.077	39 54 16.22	9001	17314 S10	YK	483
8 27	8 56 11.2139	1	1 55 18.739	48 24 55.43	9012	15080 S10	BN	490
8 27	8 56 19.2036	1	20 10 6.986	39 15 24.50	9001	17314 S11	YK	484
8 27	8 56 19.2138	1	1 53 25.574	48 2 12.78	9012	15080 S11	BN	491
8 27	8 58 59.1985	1	20 22 54.105	26 20 0.31	9001	17315 S 4	VP	1083
8 27	8 58 59.2137	1	1 20 17.298	39 28 45.20	9012	15081 S 3	VP	1090
8 27	8 59 7.1984	1	20 23 22.534	25 41 47.96	9001	17315 S 5	VP	1084
8 27	8 59 7.2138	1	1 18 50.628	39 0 21.50	9012	15081 S 4	VP	1091
8 27	8 59 15.1982	1	20 23 49.981	25 3 39.17	9001	17315 S 6	VP	1085
8 27	8 59 15.2139	1	1 17 25.441	38 31 40.40	9012	15081 S 5	VP	1092
8 27	8 59 23.1982	1	20 24 16.716	24 25 39.56	9001	17315 S 7	VP	1086
8 27	8 59 23.2141	1	1 16 0.695	38 2 41.67	9012	15081 S 6	VP	1093
8 27	8 59 31.1982	1	20 24 42.510	23 47 45.27	9001	17315 S 8	VP	1087
8 27	8 59 31.2141	1	1 14 37.499	37 33 27.88	9012	15081 S 7	VP	1094
8 27	8 59 39.1983	1	20 25 7.465	23 9 55.79	9001	17315 S 9	VP	1088
8 27	8 59 39.2140	1	1 13 15.216	37 3 56.73	9012	15081 S 8	VP	1095
8 27	8 59 47.1984	1	20 25 32.362	22 32 14.84	9001	17315 S10	VP	1089
8 27	8 59 47.2141	1	1 11 53.841	36 34 19.90	9012	15081 S 9	VP	1096
8 27	22 46 11.2045	1	1 12 20.872	32 0 10.78	9004	15189 S 3	VP	1462

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964	8 27	22 46 11.2130	1	19 44 24.704	38 20 30.47	4	9008	19043 S 4 VP 1468
	8 27	22 46 19.2047	1	1 10 51.461	31 29 4.72	4	9004	15189 S 4 VP 1463
	8 27	22 46 19.2132	1	19 45 21.826	37 46 51.78	4	9008	19043 S 5 VP 1469
	8 27	22 46 27.2047	1	1 9 23.272	30 57 52.10	4	9004	15189 S 5 VP 1464
	8 27	22 46 27.2132	1	19 46 17.682	37 13 11.61	4	9008	19043 S 6 VP 1470
	8 27	22 46 35.2048	1	1 7 56.074	30 26 29.56	4	9004	15189 S 6 VP 1465
	8 27	22 46 35.2133	1	19 47 12.381	36 39 25.87	4	9008	19043 S 7 VP 1471
	8 27	22 46 43.2047	1	1 6 30.296	29 54 57.93	4	9004	15189 S 7 VP 1466
	8 27	22 46 43.2135	1	19 48 5.628	36 5 40.32	4	9008	19043 S 8 VP 1472
	8 27	22 46 51.2045	1	1 5 5.381	29 23 20.43	4	9004	15189 S 8 VP 1467
	8 27	22 46 51.2136	1	19 48 57.374	35 31 52.90	4	9008	19043 S 9 VP 1473
	8 28	23 34 27.2200	1	2 25 28.223	63 3 24.82	4	9004	15226 S 3 DK 1168
	8 28	23 34 35.2086	1	18 43 27.711	48 53 28.72	4	9008	19078 S 5 NG 1174
	8 28	23 34 35.2201	1	2 21 15.859	62 42 57.46	4	9004	15226 S 4 DK 1736
	8 28	23 34 43.2087	1	18 45 15.017	48 29 46.55	4	9008	19078 S 6 NG 1175
	8 28	23 34 43.2201	1	2 17 7.877	62 21 44.19	4	9004	15226 S 5 DK 1170
	8 28	23 34 51.2086	1	18 47 0.758	48 5 51.01	4	9008	19078 S 7 NG 1176
	8 28	23 34 51.2203	1	2 13 3.961	61 59 59.07	4	9004	15226 S 6 DK 1171
	8 28	23 34 59.2088	1	18 48 43.611	47 41 49.61	4	9008	19078 S 8 NG 1961
	8 28	23 34 59.2202	1	2 9 5.174	61 37 33.23	4	9004	15226 S 7 DK 1172
	8 28	23 35 7.2090	1	18 50 24.868	47 17 41.19	4	9008	19078 S 9 NG 1177
	8 28	23 35 15.2092	1	18 52 4.275	46 53 15.61	4	9008	19078 S10 NG 1710
	8 28	23 35 15.2204	1	2 1 20.602	60 50 43.32	4	9004	15226 S 9 DK 1707
	8 28	23 35 23.2093	1	18 53 42.268	46 28 45.27	4	9008	19078 S11 NG 1178
	8 28	23 35 23.2203	1	1 57 35.490	60 26 25.17	4	9004	15226 S10 DK 1738
	8 28	23 39 15.2144	1	19 29 36.530	33 53 8.88	4	9008	19079 S 4 DK 1355
	8 28	23 39 15.2206	1	0 37 6.517	45 0 8.62	4	9004	15227 S 5 DK 1349
	8 28	23 39 23.2146	1	19 30 31.555	33 26 15.31	4	9008	19079 S 5 EM 1356
	8 28	23 39 23.2204	1	0 35 8.232	44 22 10.71	4	9004	15227 S 6 DK 1350
	8 28	23 39 31.2146	1	19 31 25.724	32 59 17.01	4	9008	19079 S 6 EM 1357
	8 28	23 39 31.2205	1	0 33 12.052	43 43 51.63	4	9004	15227 S 7 DK 1351
	8 28	23 39 39.2146	1	19 32 19.076	32 32 17.93	4	9008	19079 S 7 EM 2653
	8 28	23 39 39.2204	1	0 31 18.444	43 5 13.51	4	9004	15227 S 8 DK 1352
	8 28	23 39 47.2148	1	19 33 11.182	32 5 19.00	4	9008	19079 S 8 EM 2259
	8 28	23 39 55.2151	1	19 34 2.224	31 38 17.08	4	9008	19079 S 9 EM 2270
	8 28	23 39 55.2305	1	0 27 38.298	41 47 17.26	4	9004	15227 S10 DK 1353
	8 28	23 40 3.2152	1	19 34 52.358	31 11 16.72	4	9008	19079 S10 AC 1360
	8 28	23 40 3.2203	1	0 25 51.507	41 7 51.73	4	9004	15227 S11 DK 1354
	8 30	6 4 59.2109	1	19 4 23.668	64 37 0.55	4	9009	13237 S 3 RO 1660
	8 30	6 5 7.2108	1	19 6 26.818	64 12 28.85	4	9009	13237 S 4 RO 1661
	8 30	6 5 15.2106	1	19 8 27.136	63 47 43.81	4	9009	13237 S 5 RO 1662
	8 30	6 5 23.2107	1	19 10 23.484	63 22 38.58	4	9009	13237 S 6 RO 2654
	8 30	6 5 23.2211	1	1 7 2.606	48 5 34.61	4	9001	17371 S 3 RO 1653
	8 30	6 5 31.2106	1	19 12 16.536	62 57 21.46	4	9009	13237 S 7 RO 1664
	8 30	6 5 31.2210	1	1 4 52.121	47 32 36.49	4	9001	17371 S 4 RO 1654

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964	8 30	6 5 39.2212	1 2 43.969	46 59 20.35	4	9001	17371 S 5	RO	1655
	8 30	6 5 47.2212	1 0 38.080	46 25 38.29	4	9001	17371 S 6	RO	1656
	8 30	6 5 48.7905	21 6 10.295	59 24 47.98	4	9010	14970 S 4	RO	1665
	8 30	6 5 55.2213	0 58 34.726	45 51 42.82	4	9001	17371 S 7	RO	1657
	8 30	6 5 56.7906	21 6 39.855	58 43 44.58	4	9010	14970 S 5	RO	1666
	8 30	6 6 3.2213	0 56 33.653	45 17 19.98	4	9001	17371 S 8	RO	1658
	8 30	6 6 4.7904	21 7 7.452	58 2 27.82	4	9010	14970 S 6	RO	1667
	8 30	6 6 11.2213	0 54 34.732	44 42 37.25	4	9001	17371 S 9	RO	1659
	8 30	6 6 12.7903	21 7 34.373	57 20 53.03	4	9010	14970 S 7	RO	1668
	8 30	6 6 28.7906	21 8 23.561	55 57 6.46	4	9010	14970 S 9	RO	1669
	8 30	6 8 43.2206	0 23 0.792	32 50 35.69	4	9001	17372 S 4	JV	1927
	8 30	6 8 44.7812	21 12 47.574	43 32 45.25	4	9010	14971 S 2	AC	3138
	8 30	6 8 51.2207	0 21 37.239	32 10 57.04	4	9001	17372 S 5	JV	1928
	8 30	6 8 52.7809	21 12 56.476	42 47 33.18	4	9010	14971 S 3	JV	1934
	8 30	6 8 59.2207	0 20 15.515	31 31 8.84	4	9001	17372 S 6	JV	1929
	8 30	6 9 0.7800	21 13 5.000	42 2 15.68	4	9010	14971 S 4	JV	1935
	8 30	6 9 7.2207	0 18 54.982	30 51 7.25	4	9001	17372 S 7	JV	1930
	8 30	6 9 8.7789	21 13 13.038	41 16 54.91	4	9010	14971 S 5	JV	1936
	8 30	6 9 15.2208	0 17 35.607	30 11 1.46	4	9001	17372 S 8	JV	2655
	8 30	6 9 16.7782	21 13 20.485	40 31 22.03	4	9010	14971 S 6	JV	1937
	8 30	6 9 23.2208	0 16 18.030	29 30 40.80	4	9001	17372 S 9	JV	1931
	8 30	6 9 24.7770	21 13 27.242	39 45 46.81	4	9010	14971 S 7	JV	1938
	8 30	6 9 31.2209	0 15 1.466	28 50 22.97	4	9001	17372 S 10	JV	1932
	8 30	6 9 32.7763	21 13 33.728	39 0 6.95	4	9010	14971 S 8	JV	1939
	8 30	8 51 7.2133	19 58 10.676	45 5 25.94	4	9001	17375 S 3	JV	560
	8 30	8 51 7.2178	2 15 29.262	52 59 49.71	4	9012	15103 S 3	DK	553
	8 30	8 51 15.2133	19 59 18.158	44 28 9.99	4	9001	17375 S 4	JV	561
	8 30	8 51 15.2182	2 13 17.128	52 39 54.20	4	9012	15103 S 4	DK	554
	8 30	8 51 23.2132	20 0 23.939	43 50 46.37	4	9001	17375 S 5	JV	562
	8 30	8 51 23.2181	2 11 6.792	52 19 40.99	4	9012	15103 S 5	DK	555
	8 30	8 51 31.2132	20 1 27.684	43 13 20.14	4	9001	17375 S 6	JV	563
	8 30	8 51 31.2183	2 8 57.405	51 59 4.56	4	9012	15103 S 6	DK	556
	8 30	8 51 39.2130	20 2 29.594	42 35 41.83	4	9001	17375 S 7	JV	564
	8 30	8 51 39.2182	2 6 50.055	51 38 15.55	4	9012	15103 S 7	DK	557
	8 30	8 51 47.2130	20 3 29.827	41 58 5.35	4	9001	17375 S 8	JV	1281
	8 30	8 51 47.2184	2 4 43.904	51 17 2.76	4	9012	15103 S 8	DK	558
	8 30	8 51 55.2131	20 4 28.367	41 20 22.06	4	9001	17375 S 9	JV	1282
	8 30	8 51 55.2186	2 2 39.687	50 55 33.83	4	9012	15103 S 9	DK	559
	8 31	9 44 11.2191	1 49 42.178	68 44 7.46	4	9012	15121 S 3	DM	1537
	8 31	9 44 11.2195	19 30 5.146	39 22 11.58	4	9001	17402 S 6	DM	1544
	8 31	9 44 19.2191	1 45 40.492	68 24 22.16	4	9012	15121 S 4	DM	1538
	8 31	9 44 19.2195	19 31 14.548	38 52 34.07	4	9001	17402 S 7	DM	1545
	8 31	9 44 27.2190	1 41 44.880	68 4 1.96	4	9012	15121 S 5	DM	1539
	8 31	9 44 27.2194	19 32 22.703	38 22 49.91	4	9001	17402 S 8	DM	1546
	8 31	9 44 35.2192	1 37 54.558	67 43 10.95	4	9012	15121 S 6	DM	1540

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 8 31	9 44 35.2194	1	19 33 29.762	37 53 4.44	4	9001	17402 S 9	DM	1547
8 31	9 44 43.2194	1	1 34 9.312	67 21 51.30	4	9012	15121 S 7	DM	1541
8 31	9 44 43.2194	1	19 34 34.823	37 23 13.66	4	9001	17402 S10	DM	1548
8 31	9 44 51.2194	1	19 35 38.973	36 53 19.96	4	9001	17402 S11	DM	1549
8 31	9 44 51.2195	1	1 30 28.899	66 59 57.65	4	9012	15121 S 8	DM	1542
8 31	9 44 59.2194	1	1 26 54.085	66 37 34.70	4	9012	15121 S 9	DM	1543
8 31	9 44 59.2195	1	19 36 41.447	36 23 27.55	4	9001	17402 S12	DM	1550
8 31	9 48 3.2190	1	19 56 43.84	24 54 43.84	4	9001	17403 S 8	SU	933
8 31	9 48 11.2189	1	19 56 12.650	24 25 5.20	4	9001	17403 S 9	SU	934
8 31	9 48 11.2209	1	0 22 16.738	55 23 1.09	4	9012	15122 S 7	SU	928
8 31	9 48 19.2189	1	19 56 49.895	23 55 27.88	4	9001	17403 S10	SU	935
8 31	9 48 19.2211	1	0 20 17.760	54 49 41.70	4	9012	15122 S 8	SU	929
8 31	9 48 27.2190	1	19 57 26.331	23 25 58.99	4	9001	17403 S11	SU	936
8 31	9 48 27.2210	1	0 18 21.295	54 15 56.53	4	9012	15122 S 9	SU	930
8 31	9 48 35.2192	1	19 58 1.945	22 56 31.15	4	9001	17403 S12	SU	937
8 31	9 48 35.2211	1	0 16 27.240	53 41 48.89	4	9012	15122 S10	SU	931
8 31	9 48 43.2193	1	19 58 36.862	22 27 5.80	4	9001	17403 S13	SU	938
8 31	9 48 43.2212	1	0 14 35.640	53 7 19.87	4	9012	15122 S11	SU	932
9 1	5 10 59.3058	3	21 0 58.766	61 24 51.25	4	9009	13295 S 3	PG	2051
9 1	5 10 59.3206	1	1 6 15.739	26 5 53.13	4	9001	17416 S 4	PG	2062
9 1	5 11 7.1442	1	23 0 15.820	45 15 19.15	4	9010	15010 S 5	PG	2055
9 1	5 11 7.3060	3	21 1 18.287	60 51 14.75	4	9009	13295 S 4	PG	2052
9 1	5 11 7.3204	1	1 5 2.684	25 34 20.56	4	9001	17416 S 5	PG	2063
9 1	5 11 15.1447	1	22 59 13.271	44 29 48.00	4	9010	15010 S 6	PG	2056
9 1	5 11 15.3207	1	1 3 50.558	25 2 42.19	4	9001	17416 S 6	PG	2064
9 1	5 11 23.1451	1	22 58 12.432	43 44 4.64	4	9010	15010 S 7	PG	2057
9 1	5 11 23.3063	3	21 1 54.184	59 43 26.33	4	9009	13295 S 6	PG	2054
9 1	5 11 23.3206	1	1 2 39.856	24 30 58.16	4	9001	17416 S 7	PG	2065
9 1	5 11 31.1450	1	22 57 12.189	42 58 6.79	4	9010	15010 S 8	PG	2058
9 1	5 11 31.3063	3	21 2 10.857	59 9 7.60	4	9009	13295 S 7	PG	2662
9 1	5 11 31.3207	1	1 1 29.372	23 59 5.64	4	9001	17416 S 8	PG	2066
9 1	5 11 39.1454	1	22 56 13.598	42 11 53.47	4	9010	15010 S 9	PG	2059
9 1	5 11 39.3066	3	21 2 26.396	58 34 33.94	4	9009	13295 S 8	PG	2053
9 1	5 11 39.3208	1	1 0 20.164	23 27 9.25	4	9001	17416 S 9	PG	2067
9 1	5 11 47.1461	1	22 55 16.413	41 25 31.28	4	9010	15010 S10	PG	2060
9 1	5 11 47.3209	1	0 59 11.749	22 55 2.86	4	9001	17416 S10	PG	2068
9 1	5 11 55.1460	1	22 54 20.244	40 38 55.51	4	9010	15010 S11	PG	2061
9 1	7 55 45.1059	1	19 41 45.437	31 23 48.77	4	9010	15013 S 2	LM	1779
9 1	7 55 47.3195	1	21 11 40.372	40 37 30.77	4	9001	17420 S 5	LM	1786
9 1	7 55 53.1068	1	19 42 31.129	30 54 39.39	4	9010	15013 S 3	LM	1780
9 1	7 55 55.3195	1	21 11 55.024	39 51 33.23	4	9001	17420 S 6	LM	1787
9 1	7 56 1.1074	1	19 43 15.705	30 25 29.28	4	9010	15013 S 4	LM	1781
9 1	7 56 3.3195	1	21 12 8.873	39 5 34.28	4	9001	17420 S 7	LM	1788
9 1	7 56 9.1085	1	19 43 59.265	29 56 20.02	4	9010	15013 S 5	LM	1782
9 1	7 56 11.3196	1	21 12 22.112	38 19 34.58	4	9001	17420 S 8	LM	1789

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 9 1	7 56 17.1093	1	19 44 42.103	29 27 9.68	4	9010	15013 S 6	LM	1783
9 1	7 56 19.3197	1	21 12 34.674	37 33 37.25	4	9001	17420 S 9	LM	1790
9 1	7 56 25.1104	1	19 45 24.104	28 57 58.88	4	9010	15013 S 7	LM	1784
9 1	7 56 27.3198	1	21 12 46.580	36 47 36.34	4	9001	17420 S10	LM	1791
9 1	7 56 33.1112	1	19 46 5.155	28 28 49.62	4	9010	15013 S 8	LM	1785
9 1	7 56 35.3198	1	21 12 58.158	36 1 37.59	4	9001	17420 S11	LM	1792
9 2	6 5 7.3477	1	0 16 51.667	32 39 40.77	4	9001	17431 S 4	SS	1831
9 2	6 5 7.4065	1	21 6 37.673	41 58 51.01	4	9010	15024 S 4	PK	1838
9 2	6 5 15.3478	1	0 15 30.647	31 58 53.47	4	9001	17431 S 5	SS	1832
9 2	6 5 15.4095	1	21 6 51.586	41 14 13.10	4	9010	15024 S 5	PK	1839
9 2	6 5 23.3480	1	0 14 10.974	31 17 56.84	4	9001	17431 S 6	SS	1833
9 2	6 5 23.4115	1	21 7 4.952	40 29 29.47	4	9010	15024 S 6	PK	1840
9 2	6 5 31.3479	1	0 12 52.708	30 36 51.65	4	9001	17431 S 7	SS	1834
9 2	6 5 31.4129	1	21 7 17.413	39 44 40.96	4	9010	15024 S 7	SU	1841
9 2	6 5 39.3481	1	0 11 35.719	29 55 37.46	4	9001	17431 S 8	SS	1835
9 2	6 5 39.4150	1	21 7 29.312	38 59 41.16	4	9010	15024 S 8	SU	3897
9 2	6 5 47.3480	1	0 10 20.114	29 14 20.59	4	9001	17431 S 9	SS	1836
9 2	6 5 47.4168	1	21 7 40.569	38 14 50.98	4	9010	15024 S 9	SU	1842
9 2	6 5 55.3482	1	0 9 5.798	28 32 52.62	4	9001	17431 S10	SS	1837
9 2	6 5 55.4195	1	21 7 51.237	37 29 50.82	4	9010	15024 S10	SU	1843
9 3	9 42 27.3228	1	0 48 2.495	63 51 1.23	4	9012	15163 S 9	LM	2299
9 3	9 42 35.3227	1	0 45 14.111	63 23 1.48	4	9012	15163 S10	LM	2300
9 3	9 42 43.3195	1	19 49 1.731	30 6 30.03	4	9001	17447 S 1	LM	2295
9 3	9 42 43.3227	1	0 42 30.555	62 54 30.22	4	9012	15163 S11	LM	2301
9 3	9 42 51.3198	1	19 49 49.267	29 37 10.73	4	9001	17447 S 2	LM	2296
9 3	9 42 51.3228	1	0 39 50.545	62 25 34.00	4	9012	15163 S12	LM	2665
9 3	9 42 59.3200	1	19 50 35.964	29 7 49.63	4	9001	17447 S 3	LM	2297
9 3	9 43 7.3203	1	19 51 21.890	28 38 33.77	4	9001	17447 S 4	LM	2298
9 3	20 39 23.3211	1	18 0 57.036	62 43 8.73	4	9006	13653 S 4	PG	2228
9 3	20 39 31.3212	1	18 4 17.963	62 22 46.33	4	9006	13653 S 5	PG	2663
9 3	20 39 39.3164	1	22 44 48.420	88 2 11.53	4	9008	19180 S 6	PG	2221
9 3	20 39 39.3212	1	18 7 34.485	62 1 59.60	4	9006	13653 S 6	PG	2230
9 3	20 39 47.3167	1	22 34 29.819	87 32 11.05	4	9008	19180 S 7	PG	2222
9 3	20 39 47.3217	1	18 10 47.144	61 40 46.84	4	9006	13653 S 7	PG	2231
9 3	20 39 55.3168	1	22 27 45.043	87 1 42.55	4	9008	19180 S 8	PG	2223
9 3	20 39 55.3219	1	18 13 55.676	61 19 13.59	4	9006	13653 S 8	PG	2232
9 3	20 40 3.3169	1	22 22 51.162	86 30 54.89	4	9008	19180 S 9	PG	2224
9 3	20 40 3.3218	1	18 16 59.811	60 57 12.86	4	9006	13653 S 9	PG	2233
9 3	20 40 11.3170	1	22 19 7.593	85 59 44.37	4	9008	19180 S10	PG	2225
9 3	20 40 11.3221	1	18 20 0.143	60 34 48.48	4	9006	13653 S10	PG	2234
9 3	20 40 19.3174	1	22 16 13.562	85 28 25.26	4	9008	19180 S11	PG	2226
9 3	20 40 27.3178	1	22 13 55.032	84 56 39.24	4	9008	19180 S12	PG	2227
9 3	20 44 11.3157	1	21 55 59.489	68 16 19.26	4	9008	19181 S 6	PG	2595
9 3	20 44 19.3159	1	21 55 44.157	67 36 29.85	4	9008	19181 S 7	PG	2596
9 3	20 44 19.3257	1	19 25 23.460	46 31 32.68	4	9006	13654 S 6	BN	2589

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 9 3	20 44 27.3162	1	21 55 29.051	66 56 24.22	9008	19181 S 8	PK	2597
9 3	20 44 27.3259	1	19 26 48.595	46 0 56.24	9006	13654 S 7	BN	2590
9 3	20 44 35.3164	1	21 55 14.259	66 16 2.44	9008	19181 S 9	PK	2598
9 3	20 44 35.3258	1	19 28 11.545	45 30 12.79	9006	13654 S 8	BN	3143
9 3	20 44 43.3168	1	21 54 59.463	65 35 21.38	9008	19181 S10	PK	2599
9 3	20 44 43.3260	1	19 29 32.387	44 59 16.64	9006	13654 S 9	BN	2591
9 3	20 44 51.3171	1	21 54 44.946	64 54 22.11	9008	19181 S11	PK	2600
9 3	20 44 51.3264	1	19 30 51.471	44 28 18.80	9006	13654 S10	BN	2592
9 3	20 44 59.3175	1	21 54 30.733	64 13 10.24	9008	19181 S12	PK	2601
9 3	20 44 59.3262	1	19 32 8.724	43 57 10.93	9006	13654 S11	BN	2593
9 3	20 45 7.3268	1	19 33 24.414	43 25 55.39	9006	13654 S12	BN	2594
9 3	23 32 3.3214	1	19 37 43.892	31 28 33.68	9008	19185 S 2	LM	2200
9 3	23 32 3.3291	1	0 21 9.636	44 59 2.06	9004	15311 S 2	LM	2193
9 3	23 32 11.3213	1	19 38 33.992	31 2 38.36	9008	19185 S 3	LM	2664
9 3	23 32 11.3292	1	0 19 19.582	44 18 29.52	9004	15311 S 3	LM	2194
9 3	23 32 19.3213	1	19 39 23.136	30 36 42.32	9008	19185 S 4	LM	2202
9 3	23 32 19.3292	1	0 17 32.249	43 37 37.03	9004	15311 S 4	LM	2195
9 3	23 32 27.3213	1	19 40 11.593	30 10 43.38	9008	19185 S 5	LM	2203
9 3	23 32 27.3292	1	0 15 46.777	42 56 27.12	9004	15311 S 5	LM	2196
9 3	23 32 35.3214	1	19 40 58.960	29 44 51.01	9008	19185 S 6	LM	2204
9 3	23 32 35.3294	1	0 14 4.145	42 15 5.17	9004	15311 S 6	LM	2197
9 3	23 32 43.3213	1	19 41 45.499	29 18 54.73	9008	19185 S 7	LM	2205
9 3	23 32 43.3294	1	0 12 23.064	41 33 29.35	9004	15311 S 7	LM	2198
9 3	23 32 51.3214	1	19 42 31.107	28 52 59.44	9008	19185 S 8	LM	2206
9 3	23 32 51.3294	1	0 10 44.855	40 51 40.33	9004	15311 S 8	LM	2199
9 4	5 6 18.3237	1	1 14 37.766	30 22 34.60	9001	17459 S 3	DM	2038
9 4	5 6 19.2634	1	22 58 35.885	51 10 21.58	9010	15046 S 8	DM	2045
9 4	5 6 23.2634	1	22 58 2.491	50 48 23.97	9010	15046 S 9	DM	2273
9 4	5 6 26.3237	1	1 13 16.497	29 51 20.50	9001	17459 S 4	DM	2039
9 4	5 6 27.2636	1	22 57 29.505	50 26 21.11	9010	15046 S10	DM	2046
9 4	5 6 31.2641	1	22 56 57.044	50 4 17.28	9010	15046 S11	DM	2047
9 4	5 6 34.3239	1	1 11 56.154	29 19 53.77	9001	17459 S 5	DM	2040
9 4	5 6 35.2648	1	22 56 24.942	49 42 6.09	9010	15046 S12	DM	2048
9 4	5 6 39.2649	1	22 55 53.345	49 19 56.02	9010	15046 S13	DM	2049
9 4	5 6 42.3239	1	1 10 36.831	28 48 20.74	9001	17459 S 6	DM	2041
9 4	5 6 43.2654	1	22 55 21.989	48 57 38.46	9010	15046 S14	DM	2274
9 4	5 6 50.3239	1	1 9 18.481	28 16 35.79	9001	17459 S 7	DM	2042
9 4	5 7 6.3239	1	1 6 45.097	27 12 43.29	9001	17459 S 9	DM	2043
9 4	5 7 14.3237	1	1 5 29.817	26 40 35.96	9001	17459 S10	DM	2044
9 4	7 52 27.3237	1	21 7 16.033	37 27 7.47	9001	17454 S 8	VD	2132
9 4	7 52 27.3302	1	19 46 21.750	29 3 11.86	9010	15047 S 6	VD	2137
9 4	7 52 35.3236	1	21 7 33.185	36 41 59.28	9001	17454 S 9	VD	2133
9 4	7 52 35.3304	1	19 47 3.568	28 34 44.91	9010	15047 S 7	VD	2138
9 4	7 52 43.3238	1	21 7 49.260	35 56 48.91	9001	17454 S10	VD	2134
9 4	7 52 43.3319	1	19 47 44.096	28 6 12.99	9010	15047 S 8	VD	2139

DATE Y M D	TIME (A-L) H M S			RMS MS	R.A. (1950.0) H M S			DECL. (1950.0) D M S			STATION	FRAME NO.	MS	OBS.NO.
	H	M	S		H	M	S	D	M	S				
1964	9	4	7 52 51.3241	1	21	8	4.769	35	11	42.12	9001	17454 S11	VD	2135
	9	4	7 52 51.3341	1	19 48	24.603	27 37 46.16	4			9010	15047 S 9	VD	2140
	9	4	7 52 59.3241	1	21	8	19.844	34 26 34.68	4		9001	17454 S12	VD	2136
	9	4	7 52 59.3355	1	19 49	3.520	27 9 15.56	4			9010	15047 S10	VD	2141
	9	4	21 38 3.3164	1	19 51	0.769	58 26 47.55	4			9008	19198 S 2	DM	2214
	9	4	21 38 3.3247	1	2	1	17.411	35 44 25.09	4		9004	15326 S 3	DM	2207
	9	4	21 38 11.3165	1	19 52	47.129	57 51 31.95	4			9008	19198 S 3	DM	2215
	9	4	21 38 11.3247	1	1	59	42.132	35 21 10.53	4		9004	15326 S 4	DM	2208
	9	4	21 38 19.3167	1	19 54	30.018	57 16 2.19	4			9008	19198 S 4	DM	2216
	9	4	21 38 19.3250	1	1	58	8.192	34 57 47.48	4		9004	15326 S 5	DM	2209
	9	4	21 38 27.3167	1	19 56	9.462	56 40 12.55	4			9008	19198 S 5	DM	2217
	9	4	21 38 27.3250	1	1	56	35.235	34 34 8.26	4		9004	15326 S 6	DM	2210
	9	4	21 38 35.3170	1	19 57	45.498	56 4 10.53	4			9008	19198 S 6	DM	2218
	9	4	21 38 35.3249	1	1	55	3.405	34 10 20.58	4		9004	15326 S 7	DM	2211
	9	4	21 38 43.3171	1	19 59	18.408	55 27 51.32	4			9008	19198 S 7	DM	2219
	9	4	21 38 43.3251	1	1	53	32.400	33 46 22.47	4		9004	15326 S 8	DM	2212
	9	4	21 38 51.3175	1	20	0	48.391	54 51 21.27	4		9008	19198 S 8	DM	2220
	9	4	21 38 51.3248	1	1	52	2.713	33 22 14.43	4		9004	15326 S 9	DM	3142
	9	5	6 0 3.3283	1	0	26	22.979	39 55 17.80	4		9001	17473 S 8	YK	1741
	9	5	6 0 11.3232	1	19	34	44.512	53 6 22.78	4		9009	13363 S 2	PG	1745
	9	5	6 0 11.3283	1	0	24	47.150	39 15 31.09	4		9001	17473 S 9	YK	2276
	9	5	6 0 19.3231	1	19 35	51.760	52 37 54.29	4			9009	13363 S 3	PG	1746
	9	5	6 0 19.3283	1	0	23	13.090	38 35 32.12	4		9001	17473 S10	YK	1742
	9	5	6 0 27.3231	1	19 36	57.159	52 9 22.89	4			9009	13363 S 4	PG	1747
	9	5	6 0 27.3282	1	0	21	40.712	37 55 16.74	4		9001	17473 S11	PG	1743
	9	5	6 0 35.3233	1	19 38	0.824	51 40 34.64	4			9009	13363 S 5	PG	1748
	9	5	6 0 35.3282	1	0	20	10.059	37 14 50.50	4		9001	17473 S12	PG	1744
	9	5	6 0 43.3233	1	19 39	3.076	51 11 36.54	4			9009	13363 S 6	PG	1749
	9	5	8 43 39.3194	1	19 57	17.059	42 44 27.22	4			9001	17479 S 5	SU	2351
	9	5	8 43 39.3248	1	2	14	10.473	55 13 25.15	4		9012	15187 S 2	BN	2358
	9	5	8 43 47.3193	1	19 58	23.153	42 8 40.91	4			9001	17479 S 6	SU	2352
	9	5	8 43 47.3248	1	2	11	47.751	54 52 57.40	4		9012	15187 S 3	BN	2660
	9	5	8 43 55.3192	1	19 59	27.367	41 32 54.75	4			9001	17479 S 7	SU	2353
	9	5	8 43 55.3251	1	2	9	26.897	54 32 12.21	4		9012	15187 S 4	BN	2359
	9	5	8 44 3.3189	1	20	0	30.054	40 57 3.01	4		9001	17479 S 8	CB	2354
	9	5	8 44 3.3249	1	2	7	7.788	54 11 1.32	4		9012	15187 S 5	BN	2360
	9	5	8 44 11.3250	1	2	4	50.655	53 49 33.89	4		9012	15187 S 6	BN	2361
	9	5	8 44 19.3192	1	20	2	30.618	39 45 4.97	4		9001	17479 S10	CB	2355
	9	5	8 44 19.3251	1	2	2	35.101	53 27 43.17	4		9012	15187 S 7	BN	2362
	9	5	8 44 27.3192	1	20	3	28.642	39 9 3.91	4		9001	17479 S11	CB	2356
	9	5	8 44 27.3250	1	2	0	21.640	53 5 31.38	4		9012	15187 S 8	BN	2363
	9	5	8 44 35.3191	1	20	4	25.110	38 32 57.70	4		9001	17479 S12	CB	2357
	9	5	19 46 11.3112	1	0	54	46.824	65 41 40.98	4		9008	19214 S 3	VD	1851
	9	5	19 46 19.3114	1	0	51	18.317	65 11 21.35	4		9008	19214 S 4	VD	1852
	9	5	19 46 19.3278	1	19	54	32.173	58 8 5.57	4		9006	13682 S 4	VD	2275

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 9 5	19 46 27.3115	1	0 47 55.765	64 40 23.72	9008	19214 S 5	VD	1853
9 5	19 46 27.3281	1	19 56 15.286	57 32 31.07	9006	13682 S 5	VD	1845
9 5	19 46 35.3119	1	0 44 39.710	64 8 58.34	9008	19214 S 6	VD	1854
9 5	19 46 35.3281	1	19 57 53.991	56 56 44.35	9006	13682 S 6	VD	1846
9 5	19 46 43.3119	1	0 41 30.191	63 37 2.90	9008	19214 S 7	VD	1855
9 5	19 46 43.3283	1	19 59 29.608	56 20 41.33	9006	13682 S 7	VD	1847
9 5	19 46 51.3121	1	0 38 26.235	63 4 32.31	9008	19214 S 8	VD	1856
9 5	19 46 51.3285	1	20 1 1.947	55 44 23.05	9006	13682 S 8	VD	1848
9 5	19 46 59.3284	1	20 2 31.384	55 7 53.02	9006	13682 S 9	VD	1849
9 5	19 47 7.3126	1	0 32 34.803	61 58 9.54	9008	19214 S 10	VD	1857
9 5	19 47 7.3291	1	20 3 57.966	54 31 7.92	9006	13682 S 10	VD	1850
9 5	22 25 15.3133	1	17 3 5.137	65 54 36.58	9008	19216 S 4	VD	2278
9 5	22 25 16.3290	1	4 22 30.866	59 37 51.06	9004	15347 S 2	VD	2105
9 5	22 25 31.3133	1	17 11 29.581	65 29 24.08	9008	19216 S 6	VD	2111
9 5	22 25 32.3294	1	4 15 25.686	59 26 4.38	9004	15347 S 4	VD	2106
9 5	22 25 39.3136	1	17 15 36.237	65 16 2.03	9008	19216 S 7	VD	2112
9 5	22 25 40.3293	1	4 11 53.902	59 19 30.04	9004	15347 S 5	VD	2107
9 5	22 25 47.3135	1	17 19 39.181	65 2 3.59	9008	19216 S 8	VD	2113
9 5	22 25 48.3294	1	4 8 21.805	59 12 26.34	9004	15347 S 6	VD	2108
9 5	22 25 55.3138	1	17 23 39.276	64 47 31.97	9008	19216 S 9	VD	2114
9 5	22 25 56.3295	1	4 4 50.048	59 4 52.75	9004	15347 S 7	VD	2109
9 5	22 28 43.3144	1	18 32 30.021	57 55 37.72	9008	19217 S 4	SU	1688
9 5	22 28 51.3143	1	18 35 4.869	57 31 39.70	9008	19217 S 5	SU	1689
9 5	22 28 52.3298	1	2 51 50.537	54 18 53.52	9004	15348 S 5	BN	1682
9 5	22 28 59.3146	1	18 37 36.644	57 7 22.68	9008	19217 S 6	SU	1690
9 5	22 29 0.3300	1	2 48 50.265	54 0 32.01	9004	15348 S 6	BN	1683
9 5	22 29 7.3144	1	18 40 4.938	56 42 51.11	9008	19217 S 7	SU	1691
9 5	22 29 8.3301	1	2 45 51.771	53 41 42.74	9004	15348 S 7	BN	1684
9 5	22 29 15.3148	1	18 42 29.815	56 17 59.87	9008	19217 S 8	SU	1692
9 5	22 29 16.3300	1	2 42 55.394	53 22 28.10	9004	15348 S 8	BN	1685
9 5	22 29 23.3147	1	18 44 51.778	55 52 45.10	9008	19217 S 9	SU	2279
9 5	22 29 24.3299	1	2 40 1.274	53 2 44.24	9004	15348 S 9	BN	1686
9 5	22 29 39.3152	1	18 49 25.668	55 1 33.38	9008	19217 S 11	SU	1694
9 5	22 29 40.3300	1	2 34 19.033	52 22 0.34	9004	15348 S 11	BN	1687
9 5	22 34 27.3270	1	19 44 13.977	37 28 41.27	9008	19218 S 3	DM	2621
9 5	22 34 28.3360	1	1 14 40.763	35 59 39.13	9004	15349 S 3	DM	2614
9 5	22 34 35.3271	1	19 45 13.188	36 57 16.27	9008	19218 S 4	DM	2622
9 5	22 34 36.3361	1	1 13 1.528	35 27 3.57	9004	15349 S 4	DM	2615
9 5	22 34 43.3268	1	19 46 10.414	36 26 3.60	9008	19218 S 5	DM	2623
9 5	22 34 44.3360	1	1 11 23.531	34 54 12.19	9004	15349 S 5	DM	2616
9 5	22 34 51.3271	1	19 47 6.584	35 54 30.26	9008	19218 S 6	DM	2624
9 5	22 34 52.3361	1	1 9 47.288	34 21 13.85	9004	15349 S 6	DM	2617
9 5	22 34 59.3270	1	19 48 1.633	35 23 10.98	9008	19218 S 7	DM	2625
9 5	22 35 0.3360	1	1 8 12.329	33 48 3.24	9004	15349 S 7	DM	2618
9 5	22 35 7.3274	1	19 48 55.122	34 51 45.06	9008	19218 S 8	DM	2626

DATE Y M D	TIME (A-I) F M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964	9 5	22 35 8.3361	1 6 38.631	33 14 39.83	9004	15349 S 8	DM	2619
9 5	22 35 15.3275	1	19 49 47.875	34 20 18.51	9008	19218 S 9	DM	2627
9 5	22 35 16.3359	1	1 5 6.528	32 41 6.58	9004	15349 S 9	DM	2620
9 6	9 36 3.3227	1	19 29 39.477	39 51 43.71	9001	17501 S 5	VP	2377
9 6	9 36 3.3234	1	1 52 17.863	72 42 4.61	9012	15200 S 3	VP	2383
9 6	9 36 11.3227	1	19 30 52.087	39 23 29.85	9001	17501 S 6	VP	2378
9 6	9 36 11.3233	1	1 47 22.899	72 23 14.78	9012	15200 S 4	VP	2384
9 6	9 36 19.3224	1	19 32 3.037	38 55 13.29	9001	17501 S 7	VP	2379
9 6	9 36 19.3236	1	1 42 35.457	72 3 57.69	9012	15200 S 5	VP	2385
9 6	9 36 27.3227	1	19 33 12.681	38 26 51.46	9001	17501 S 8	VP	2380
9 6	9 36 27.3237	1	1 37 56.022	71 43 53.61	9012	15200 S 6	VP	2386
9 6	9 36 35.3225	1	19 34 20.666	37 58 25.13	9001	17501 S 9	VP	2381
9 6	9 36 35.3236	1	1 33 25.117	71 23 19.76	9012	15200 S 7	VP	2387
9 6	9 36 43.3225	1	19 35 27.430	37 29 56.61	9001	17501 S10	VP	2382
9 6	9 36 43.3237	1	1 29 1.510	71 2 14.07	9012	15200 S 8	VP	2388
9 6	9 39 39.3239	1	0 18 45.621	61 10 57.58	9012	15201 S 1	LM	2442
9 6	9 39 39.3274	1	19 55 3.836	26 59 9.75	9001	17502 S 4	LM	2435
9 6	9 39 47.3239	1	0 16 29.245	60 38 54.92	9012	15201 S 2	LM	2443
9 6	9 39 47.3271	1	19 55 45.913	26 30 42.60	9001	17502 S 5	LM	2436
9 6	9 39 55.3239	1	0 14 17.307	60 6 31.49	9012	15201 S 3	LM	2444
9 6	9 39 55.3270	1	19 56 27.285	26 2 10.07	9001	17502 S 6	LM	2437
9 6	9 40 3.3240	1	0 12 7.998	59 33 45.27	9012	15201 S 4	LM	2445
9 6	9 40 3.3272	1	19 57 7.632	25 33 41.20	9001	17502 S 7	LM	2438
9 6	9 40 11.3243	1	0 10 2.227	59 0 33.13	9012	15201 S 5	LM	2446
9 6	9 40 11.3272	1	19 57 47.404	25 5 16.97	9001	17502 S 8	LM	2439
9 6	9 40 19.3243	1	0 7 59.933	58 26 57.36	9012	15201 S 6	LM	2447
9 6	9 40 19.3271	1	19 58 26.220	24 36 49.65	9001	17502 S 9	LM	2440
9 6	9 40 27.3242	1	0 6 0.151	57 52 57.73	9012	15201 S 7	LM	2448
9 6	9 40 27.3271	1	19 59 4.416	24 8 29.68	9001	17502 S10	LM	2441
9 8	22 25 31.3265	1	18 46 35.568	55 4 3.21	9008	19287 S 3	PK	2076
9 8	22 25 31.3332	1	2 43 46.586	54 29 37.76	9004	15410 S 2	BN	2069
9 8	22 25 39.3266	1	18 48 50.295	54 38 59.14	9008	19287 S 4	PK	2077
9 8	22 25 39.3330	1	2 40 45.293	54 9 43.15	9004	15410 S 3	BN	2070
9 8	22 25 47.3264	1	18 51 2.248	54 13 37.95	9008	19287 S 5	PK	2078
9 8	22 25 47.3332	1	2 37 46.165	53 49 19.42	9004	15410 S 4	BN	2071
9 8	22 25 55.3266	1	18 53 11.522	53 48 3.96	9008	19287 S 6	BA	2079
9 8	22 25 55.3334	1	2 34 49.058	53 28 33.34	9004	15410 S 5	BN	2072
9 8	22 26 3.3267	1	18 55 17.362	53 22 14.96	9008	19287 S 7	BA	2080
9 8	22 26 3.3332	1	2 31 54.429	53 7 16.08	9004	15410 S 6	BN	2073
9 8	22 26 11.3269	1	18 57 20.914	52 56 7.77	9008	19287 S 8	BA	2081
9 8	22 26 11.3335	1	2 29 2.567	52 45 33.94	9004	15410 S 7	BN	2074
9 8	22 26 19.3272	1	18 59 21.635	52 29 49.62	9008	19287 S 9	BA	2082
9 8	22 26 19.3334	1	2 26 12.477	52 23 25.75	9004	15410 S 8	BN	2075
9 8	22 29 15.3273	1	19 34 0.769	42 4 57.34	9008	19288 S 4	VP	2634
9 8	22 29 15.3353	1	1 33 18.359	42 37 14.92	9004	15411 S 3	VP	2628

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 9 8	22 29 23.3272	1	19 35 13.168	41 35 5.52	9008	19288 S 5	VP	2635
9 8	22 29 23.3353	1	1 31 17.956	42 6 39.61	9004	15411 S 4	VP	2629
9 8	22 29 31.3272	1	19 36 24.270	41 5 4.74	9008	19288 S 6	VP	2636
9 8	22 29 31.3354	1	1 29 19.741	41 35 47.82	9004	15411 S 5	VP	2630
9 8	22 29 39.3275	1	19 37 34.226	40 34 51.70	9008	19288 S 7	VP	2637
9 8	22 29 39.3354	1	1 27 23.319	41 4 35.55	9004	15411 S 6	VP	2631
9 8	22 29 47.3277	1	19 38 41.921	40 4 44.70	9008	19288 S 8	VP	2638
9 8	22 29 47.3355	1	1 25 28.669	40 33 10.70	9004	15411 S 7	VP	2632
9 8	22 29 55.3279	1	19 39 48.601	39 34 31.33	9008	19288 S 9	VP	2639
9 8	22 29 55.3354	1	1 23 35.946	40 1 33.04	9004	15411 S 8	VP	2633
10 11	7 56 59.3700	1	1 47 1.740	74 7 34.55	9012	15565 S 3	PG	6106
10 11	7 57 7.3667	1	20 3 15.617	37 47 3.20	9012	17925 S 4	PG	6100
10 11	7 57 7.3699	1	1 42 12.097	73 46 12.02	9001	15565 S 4	PG	6107
10 11	7 57 15.3666	1	20 4 20.969	37 20 0.41	9001	17925 S 5	PG	6101
10 11	7 57 15.3699	1	1 37 31.347	73 24 15.41	9012	15565 S 5	PG	6108
10 11	7 57 23.3667	1	20 5 25.289	36 52 47.97	9001	17925 S 6	PG	6102
10 11	7 57 23.3701	1	1 33 2.125	73 1 46.45	9012	15565 S 6	PG	6109
10 11	7 57 31.3667	1	20 6 28.174	36 25 35.50	9001	17925 S 7	PG	6103
10 11	7 57 31.3698	1	1 28 41.451	72 38 44.57	9012	15565 S 7	PG	6110
10 11	7 57 39.3666	1	20 7 29.702	35 58 21.59	9001	17925 S 8	PG	6965
10 11	7 57 39.3701	1	1 24 30.681	72 15 12.42	9012	15565 S 8	PG	6111
10 11	7 57 47.3666	1	20 8 30.337	35 31 2.17	9001	17925 S 9	PG	6104
10 11	7 57 47.3700	1	1 20 28.313	71 51 11.65	9012	15565 S 9	PG	6112
10 11	7 57 55.3668	1	20 9 29.507	35 3 44.23	9001	17925 S10	PG	6105
10 11	7 59 39.3713	1	0 36 29.777	65 26 16.80	9012	15566 S 7	PK	6388
10 11	7 59 47.3665	1	20 21 30.589	28 40 41.34	9001	17926 S 2	BN	6393
10 11	7 59 47.3716	1	0 34 3.934	64 55 36.40	9012	15566 S 8	PK	6389
10 11	7 59 55.3666	1	20 22 14.748	28 13 25.29	9001	17926 S 3	BN	6394
10 11	7 59 55.3717	1	0 31 43.023	64 24 37.63	9012	15566 S 9	PK	6390
10 11	8 0 3.3667	1	20 22 58.181	27 46 9.32	9001	17926 S 4	BN	6395
10 11	8 0 3.3719	1	0 29 25.755	63 53 8.01	9012	15566 S10	PK	6391
10 11	8 0 11.3666	1	20 23 41.191	27 18 51.63	9001	17926 S 5	BN	6396
10 11	8 0 11.3721	1	0 27 13.386	63 21 24.31	9012	15566 S11	PK	6392
10 11	18 56 3.3587	1	18 0 57.902	86 27 8.25	9008	19966 S 7	BN	6459
10 11	18 56 11.3586	1	18 28 8.891	86 12 46.05	9008	19966 S 8	BN	6460
10 11	18 56 11.3663	1	18 38 15.377	60 16 41.52	9006	14068 S 3	BN	6465
10 11	18 56 19.3589	1	18 52 0.136	85 55 30.84	9008	19966 S 9	BN	6461
10 11	18 56 19.3664	1	18 41 12.450	59 56 36.31	9006	14068 S 4	BN	6466
10 11	18 56 27.3590	1	19 12 36.541	85 35 41.27	9008	19966 S10	BN	6462
10 11	18 56 27.3665	1	18 44 6.444	59 36 10.81	9006	14068 S 5	BN	6467
10 11	18 56 35.3589	1	19 30 18.671	85 13 53.58	9008	19966 S11	BN	6463
10 11	18 56 35.3669	1	18 46 56.236	59 15 24.11	9006	14068 S 6	BN	6468
10 11	18 56 43.3591	1	19 45 33.093	84 50 26.59	9008	19966 S12	BN	6464
10 11	18 56 43.3669	1	18 49 43.185	58 54 17.41	9006	14068 S 7	BN	6469
10 11	18 58 43.3617	1	21 18 43.631	77 23 8.67	9008	19967 S 2	KV	7193

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 11	18 58 43.3714	1	19 25 7.527	53 1 2.11	9006	14069 S 3	KV	7200
10 11	18 58 51.3618	1	21 21 10.294	76 49 35.02	9008	19967 S 3	KV	7194
10 11	18 58 51.3717	1	19 27 6.169	52 35 23.67	9006	14069 S 4	KV	7201
10 11	18 58 59.3620	1	21 23 24.401	76 15 46.58	9008	19967 S 4	KV	7195
10 11	18 58 59.3717	1	19 29 1.999	52 9 31.26	9006	14069 S 5	KV	7202
10 11	18 59 7.3624	1	21 25 28.447	75 41 42.02	9008	19967 S 5	KV	7196
10 11	18 59 7.3720	1	19 30 56.066	51 43 31.74	9006	14069 S 6	KV	7203
10 11	18 59 15.3626	1	21 27 11.58	75 7 11.58	9008	19967 S 6	KV	7197
10 11	18 59 15.3723	1	19 32 47.135	51 17 14.29	9006	14069 S 7	KV	7204
10 11	18 59 23.3630	1	21 29 10.689	74 32 27.92	9008	19967 S 7	KV	7198
10 11	18 59 23.3729	1	19 34 35.899	50 50 47.90	9006	14069 S 8	KV	7205
10 11	18 59 31.3632	1	21 30 49.385	73 57 25.10	9008	19967 S 8	KV	7199
10 11	18 59 31.3729	1	19 36 22.320	50 24 8.90	9006	14069 S 9	KV	7206
10 11	19 1 55.3687	1	21 47 49.986	62 38 23.69	9008	19968 S 2	SU	6502
10 11	19 1 55.3764	1	20 2 30.340	41 58 26.05	9006	14070 S 3	DM	6495
10 11	19 2 3.3688	1	21 48 21.494	61 58 15.14	9008	19968 S 3	SU	6503
10 11	19 2 3.3763	1	20 3 40.915	41 29 15.38	9006	14070 S 4	DM	6496
10 11	19 2 11.3692	1	21 48 50.960	61 17 49.74	9008	19968 S 4	SU	6504
10 11	19 2 11.3764	1	20 4 49.931	40 59 58.50	9006	14070 S 5	DM	6497
10 11	19 2 19.3692	1	21 49 19.547	60 37 10.87	9008	19968 S 5	SU	6505
10 11	19 2 19.3767	1	20 5 57.424	40 30 37.80	9006	14070 S 6	DM	6498
10 11	19 2 27.3696	1	21 49 46.091	59 56 19.02	9008	19968 S 6	SU	6506
10 11	19 2 27.3769	1	20 7 12.51	40 1 12.51	9006	14070 S 7	DM	6499
10 11	19 2 35.3700	1	21 50 10.931	59 15 14.99	9008	19968 S 7	SU	6507
10 11	19 2 35.3770	1	20 8 8.388	39 31 46.67	9006	14070 S 8	SU	6500
10 11	19 2 43.3703	1	21 50 35.357	58 33 53.29	9008	19968 S 8	SU	6508
10 11	19 2 43.3780	1	20 9 11.997	39 2 14.08	9006	14070 S 9	SU	6501
10 12	3 21 31.3765	1	1 57 11.858	39 50 29.57	9001	17945 S 3	YK	6968
10 12	3 21 39.3766	1	1 55 29.038	39 20 43.01	9001	17945 S 4	YK	6012
10 12	3 21 47.3766	1	1 53 47.808	38 50 46.00	9001	17945 S 5	YK	6013
10 12	3 21 54.3683	1	20 42 5.773	66 38 41.33	9009	13941 S 2	YK	6018
10 12	3 21 55.3770	1	1 52 7.753	38 20 29.92	9001	17945 S 6	YK	6014
10 12	3 22 3.3768	1	1 50 29.560	37 50 4.26	9001	17945 S 7	YK	6015
10 12	3 22 10.3682	1	20 44 42.878	65 41 52.08	9009	13941 S 4	YK	6019
10 12	3 22 11.3770	1	1 48 52.367	37 19 22.85	9001	17945 S 8	YK	6016
10 12	3 22 18.3685	1	20 45 57.023	65 13 7.57	9009	13941 S 5	YK	6020
10 12	3 22 19.3770	1	1 47 16.764	36 48 29.25	9001	17945 S 9	YK	6017
10 12	3 22 26.3687	1	20 47 8.289	64 44 10.45	9009	13941 S 6	YK	6021
10 12	3 22 34.3689	1	20 48 17.399	64 15 1.81	9009	13941 S 7	YK	7947
10 12	8 52 19.3720	1	21 29 30.075	70 13 41.00	9012	15584 S 3	SU	6482
10 12	8 52 27.3721	1	21 30 27.720	69 40 50.66	9012	15584 S 4	SU	6483
10 12	8 52 35.3719	1	21 31 22.314	69 7 40.42	9012	15584 S 5	SU	6484
10 12	8 52 43.3721	1	21 32 13.542	68 34 17.97	9012	15584 S 6	SU	6485
10 12	8 52 51.3722	1	21 33 2.726	68 0 32.16	9012	15584 S 7	SU	6486
10 12	8 52 59.3721	1	21 33 49.553	67 26 44.84	9012	15584 S 8	SU	6487

Satellite 1961 Alpha Delta 1

12 October - 13 October 1964

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 12	8 53 7.3724	1	21 34 33.233	66 52 34.87	4	9012	15584 S 9	SU	6488
10 12	19 53 39.3808	1	2 49 27.860	42 5 4.47	4	9004	15767 S 5	SU	6969
10 12	19 53 47.3808	1	2 47 33.617	41 43 38.44	4	9004	15767 S 6	SU	6448
10 12	19 53 55.3808	1	2 45 40.602	41 21 55.13	4	9004	15767 S 7	SU	6449
10 12	19 54 3.3808	1	2 43 48.811	40 59 55.68	4	9004	15767 S 8	SU	6450
10 12	19 54 11.3678	1	20 0 26.137	58 46 41.19	4	9008	19990 S 7	SU	6453
10 12	19 54 11.3810	1	2 41 58.239	40 37 47.61	4	9004	15767 S 9	SU	6451
10 12	19 54 19.3680	1	20 2 29.862	58 15 6.67	4	9008	19990 S 8	SU	6454
10 12	19 54 19.3811	1	2 40 8.583	40 15 21.55	4	9004	15767 S 10	SU	6452
10 12	19 54 27.3683	1	20 4 29.362	57 43 17.72	4	9008	19990 S 9	SU	6455
10 12	19 54 35.3687	1	20 6 25.321	57 11 9.87	4	9008	19990 S 10	SU	6456
10 12	19 54 43.3691	1	20 8 17.707	56 38 46.71	4	9008	19990 S 11	SU	6457
10 12	19 54 51.3692	1	20 10 6.972	56 6 9.76	4	9008	19990 S 12	SU	6458
10 12	19 56 59.3691	1	20 32 56.333	46 56 32.28	4	9008	19991 S 3	BN	6366
10 12	19 57 7.3692	1	20 34 3.105	46 20 53.18	4	9008	19991 S 4	BN	6367
10 12	19 57 15.3692	1	20 35 7.833	45 45 1.77	4	9008	19991 S 5	BN	6368
10 12	19 57 15.3792	1	2 5 2.704	31 10 54.95	4	9004	15768 S 5	BN	6373
10 12	19 57 23.3694	1	20 36 10.695	45 9 3.84	4	9008	19991 S 6	BN	6369
10 12	19 57 23.3793	1	2 3 39.566	30 44 9.62	4	9004	15768 S 6	BN	7946
10 12	19 57 31.3696	1	20 37 11.885	44 33 0.63	4	9008	19991 S 7	BN	6370
10 12	19 57 31.3793	1	2 2 17.432	30 17 20.00	4	9004	15768 S 7	BN	6375
10 12	19 57 39.3696	1	20 38 11.312	43 56 53.42	4	9008	19991 S 8	BN	6371
10 12	19 57 39.3791	1	2 0 56.723	29 50 20.98	4	9004	15768 S 8	BN	6966
10 12	19 57 47.3700	1	20 39 9.309	43 20 42.10	4	9008	19991 S 9	BN	7945
10 12	19 57 47.3792	1	1 59 36.538	29 23 12.78	4	9004	15768 S 9	BN	6377
10 12	19 57 55.3793	1	1 58 17.253	28 55 55.65	4	9004	15768 S 10	BN	6378
10 12	19 58 3.3790	1	1 56 59.376	28 28 30.87	4	9004	15768 S 11	BN	6379
10 13	1 54 35.3815	1	23 10 36.067	-45 18 42.41	4	9009	13954 S 8	VP	5842
10 13	1 54 35.3888	1	22 47 42.749	13 6 21.53	4	9011	16372 S 5	VP	5846
10 13	1 54 43.3815	1	23 10 5.072	-45 47 0.80	4	9009	13954 S 9	VP	5843
10 13	1 54 43.3884	1	23 26 29.876	-8 41 18.00	4	9007	15460 S 4	VP	5836
10 13	1 54 43.3888	1	22 47 15.565	12 32 22.73	4	9011	16372 S 6	VP	5847
10 13	1 54 51.3814	1	23 9 34.327	-46 15 11.85	4	9009	13954 S 10	VP	5844
10 13	1 54 51.3882	1	23 26 3.599	-9 26 12.47	4	9007	15460 S 5	VP	5837
10 13	1 54 51.3888	1	22 46 48.292	11 58 6.69	4	9011	16372 S 7	VP	5848
10 13	1 54 59.3813	1	23 9 3.154	-46 43 4.70	4	9009	13954 S 11	VP	5845
10 13	1 54 59.3881	1	23 25 38.005	-10 11 17.69	4	9007	15460 S 6	VP	5838
10 13	1 54 59.3886	1	22 46 20.745	11 23 43.97	4	9011	16372 S 8	VP	5849
10 13	1 55 7.3875	1	23 25 11.880	-10 56 27.47	4	9007	15460 S 7	VP	5839
10 13	1 55 7.3887	1	22 45 53.100	10 49 3.39	4	9011	16372 S 9	VP	5850
10 13	1 55 15.3876	1	23 24 45.760	-11 41 33.35	4	9007	15460 S 8	VP	5840
10 13	1 55 15.3886	1	22 45 25.143	10 14 6.44	4	9011	16372 S 10	VP	5851
10 13	1 55 23.3873	1	23 24 19.421	-12 26 49.42	4	9007	15460 S 9	VP	5841
10 13	1 55 23.3887	1	22 44 57.130	9 38 59.49	4	9011	16372 S 11	VP	5852
10 13	7 0 35.3643	1	20 23 36.467	40 51 38.06	4	9001	17967 S 5	AV	6325

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 13	7 0 35.3744	1	2 35 22.810	58 51 20.56	9012	15600 S 4	AV	6332
10 13	7 0 43.3643	1	20 24 40.521	40 18 31.59	9001	17967 S 6	AV	6326
10 13	7 0 43.3745	1	2 32 44.361	58 30 44.76	9012	15600 S 5	AV	6333
10 13	7 0 51.3643	1	20 25 42.782	39 45 19.57	9001	17967 S 7	AV	6327
10 13	7 0 51.3745	1	2 30 8.086	58 9 45.03	9012	15600 S 6	AV	6334
10 13	7 0 59.3643	1	20 26 44.077	39 12 4.70	9001	17967 S 8	AV	6328
10 13	7 0 59.3746	1	2 27 34.241	57 48 23.09	9012	15600 S 7	AV	6335
10 13	7 1 7.3643	1	20 27 43.653	38 38 51.39	9001	17967 S 9	AV	6329
10 13	7 1 7.3746	1	2 25 2.942	57 26 34.92	9012	15600 S 8	AV	6336
10 13	7 1 15.3646	1	20 28 41.704	38 5 33.90	9001	17967 S10	AV	6330
10 13	7 1 15.3747	1	2 22 33.779	57 4 29.64	9012	15600 S 9	AV	6337
10 13	7 1 23.3649	1	20 29 38.423	37 32 14.06	9001	17967 S11	AV	6331
10 13	7 1 23.3748	1	2 20 6.605	56 42 0.07	9012	15600 S10	AV	6338
10 13	15 16 3.3675	1	2 56 45.135	59 29 1.17	9006	14107 S 3	LL	6339
10 13	15 16 3.3783	1	3 1 48.536	39 45 0.02	9008	20010 S 4	LL	6346
10 13	15 16 11.3678	1	2 53 34.399	59 9 6.03	9006	14107 S 4	LL	6340
10 13	15 16 11.3785	1	3 0 17.300	39 27 30.97	9008	20010 S 5	LL	6347
10 13	15 16 19.3675	1	2 50 26.122	58 48 39.76	9006	14107 S 5	LL	6341
10 13	15 16 19.3787	1	2 58 46.858	39 9 56.54	9008	20010 S 6	LL	6348
10 13	15 16 27.3677	1	2 47 21.049	58 27 48.26	9006	14107 S 6	LL	6342
10 13	15 16 27.3787	1	2 57 17.064	38 52 5.72	9008	20010 S 7	LL	6349
10 13	15 16 35.3682	1	2 44 18.421	58 6 29.19	9006	14107 S 7	LL	6343
10 13	15 16 35.3785	1	2 55 48.658	38 34 5.97	9008	20010 S 8	LL	6350
10 13	15 16 43.3681	1	2 41 19.015	57 44 42.00	9006	14107 S 8	LL	6344
10 13	15 16 43.3787	1	2 54 20.703	38 15 55.34	9008	20010 S 9	LL	6351
10 13	15 16 51.3684	1	2 38 21.797	57 22 28.89	9006	14107 S 9	LL	6345
10 13	15 16 51.3787	1	2 52 53.387	37 57 35.23	9008	20010 S10	LL	6352
10 13	15 19 39.3784	1	2 25 26.303	30 57 8.13	9008	20011 S 3	KV	6027
10 13	15 19 40.1720	1	1 46 22.575	47 57 8.97	9006	14108 S 2	KV	6022
10 13	15 19 47.3784	1	2 24 15.895	30 35 35.18	9008	20011 S 4	KV	6028
10 13	15 19 48.1720	1	1 44 20.687	47 26 14.38	9006	14108 S 3	KV	6023
10 13	15 19 55.3785	1	2 23 6.257	30 13 49.58	9008	20011 S 5	KV	6029
10 13	15 19 56.1724	1	1 42 21.306	46 54 58.53	9006	14108 S 4	KV	6024
10 13	15 20 3.3784	1	2 21 57.876	29 52 8.18	9008	20011 S 6	KV	6970
10 13	15 20 4.1729	1	1 40 23.924	46 23 27.12	9006	14108 S 5	KV	6025
10 13	15 20 11.3785	1	2 20 49.864	29 30 9.76	9008	20011 S 7	KV	6031
10 13	15 20 12.1727	1	1 38 28.602	45 51 30.46	9006	14108 S 6	KV	6026
10 13	17 59 31.3622	1	3 27 46.602	78 51 9.43	9008	20016 S 2	VP	6384
10 13	17 59 31.3679	1	18 59 4.518	68 45 10.40	9006	14110 S 3	VP	6380
10 13	17 59 39.3623	1	3 18 16.168	78 39 28.46	9008	20016 S 3	VP	6385
10 13	17 59 39.3684	1	19 3 7.311	68 21 53.11	9006	14110 S 4	VP	6381
10 13	17 59 47.3624	1	3 9 1.261	78 26 34.41	9008	20016 S 4	VP	6386
10 13	17 59 47.3680	1	19 7 2.396	67 58 3.21	9006	14110 S 5	VP	6382
10 13	17 59 55.3626	1	3 0 3.134	78 12 34.02	9008	20016 S 5	VP	6387
10 13	17 59 55.3679	1	19 10 50.652	67 33 45.73	9006	14110 S 6	VP	6383

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 13	18 5 23.3650	1	0 4 59.624	57 59 36.69	9008	20018 S 2	LM	6259
10 13	18 5 23.3757	1	20 36 25.245	46 1 56.52	9006	14112 S 2	LM	6253
10 13	18 5 31.3655	1	0 3 16.435	57 20 2.15	9008	20018 S 3	LM	6260
10 13	18 5 31.3759	1	20 37 27.740	45 25 57.96	9006	14112 S 3	LM	6254
10 13	18 5 39.3660	1	0 1 35.259	56 40 8.13	9008	20018 S 4	LM	6261
10 13	18 5 39.3756	1	20 38 28.649	44 49 52.80	9006	14112 S 4	LM	6255
10 13	18 5 47.3663	1	23 59 58.678	55 59 53.65	9006	20018 S 5	LM	6252
10 13	18 5 47.3761	1	20 39 28.090	44 13 41.82	9006	14112 S 5	LM	6256
10 13	18 5 55.3667	1	23 58 23.875	55 19 17.76	9008	20018 S 6	LM	6263
10 13	18 5 55.3768	1	20 40 25.787	43 37 22.91	9006	14112 S 6	LM	6257
10 13	18 6 3.3674	1	23 56 51.820	54 38 20.59	9008	20018 S 7	LM	6264
10 13	18 6 3.3765	1	20 41 21.863	43 1 2.82	9006	14112 S 7	LM	6258
10 15	C 54 51.6676	1	23 53 52.411	19 41 29.73	9011	16424 S 5	LL	7302
10 15	C 54 59.6676	1	23 53 34.869	19 12 46.59	9011	16424 S 6	LL	7303
10 15	C 55 7.3671	1	0 38 38.105	0 55 48.07	9007	15491 S 2	LL	7166
10 15	C 55 7.6675	1	23 53 17.932	18 43 43.45	9011	16424 S 7	LL	7304
10 15	C 55 15.3672	1	0 38 27.077	0 19 11.54	9007	15491 S 3	LL	7167
10 15	C 55 15.3871	1	0 31 29.166	-35 42 47.06	9009	13983 S 5	LL	7173
10 15	C 55 15.6675	1	23 53 1.120	18 14 27.19	9011	16424 S 8	LL	7305
10 15	C 55 23.3672	1	0 38 16.046	-0 17 30.88	9007	15491 S 4	LL	7168
10 15	C 55 23.3871	1	0 31 15.788	-36 13 3.03	9009	13983 S 6	LL	7174
10 15	C 55 23.6675	1	23 52 44.657	17 44 58.49	9011	16424 S 9	LL	7980
10 15	C 55 31.3671	1	0 38 5.499	-0 54 24.08	9007	15491 S 5	LL	7169
10 15	C 55 31.3871	1	0 31 2.618	-36 43 11.34	9009	13983 S 7	LL	7175
10 15	C 55 31.6676	1	23 52 27.783	17 15 19.34	9011	16424 S 10	LL	7307
10 15	C 55 39.3672	1	0 37 54.874	-1 31 27.10	9007	15491 S 6	LL	9350
10 15	C 55 39.3872	1	0 30 49.583	-37 13 6.54	9009	13983 S 8	LL	7176
10 15	C 55 47.3664	1	0 37 44.763	-2 8 41.20	9007	15491 S 7	LL	7171
10 15	C 55 47.3872	1	0 30 36.987	-37 42 54.04	9009	13983 S 9	LL	7177
10 15	C 55 55.3653	1	0 37 34.750	-2 45 57.07	9007	15491 S 8	LL	7172
10 15	C 55 55.3872	1	0 30 24.540	-38 12 27.46	9009	13983 S 10	LL	7178
10 15	C 56 3.3869	1	0 30 12.193	-38 41 59.17	9009	13983 S 11	LL	7179
10 15	C 58 59.3876	1	0 26 44.789	-48 51 39.06	9009	13984 S 3	AV	8269
10 15	C 59 7.3874	1	0 26 38.344	-49 17 38.95	9009	13984 S 4	AV	8270
10 15	C 59 15.3658	1	0 34 52.974	-18 58 45.27	9007	15492 S 2	AV	8262
10 15	C 59 15.3872	1	0 26 31.663	-49 43 31.35	9009	13984 S 5	AV	8271
10 15	C 59 23.3667	1	0 34 50.194	-19 38 43.60	9007	15492 S 3	AV	8263
10 15	C 59 23.3869	1	0 26 25.726	-50 9 12.44	9009	13984 S 6	AV	8272
10 15	C 59 31.3652	1	0 34 47.757	-20 18 38.86	9007	15492 S 4	AV	8264
10 15	C 59 31.3865	1	0 26 20.275	-50 34 48.97	9009	13984 S 7	AV	8273
10 15	C 59 39.3652	1	0 34 45.626	-20 58 41.02	9007	15492 S 5	AV	8265
10 15	C 59 39.3864	1	0 26 15.016	-51 0 11.95	9009	13984 S 8	AV	8274
10 15	C 59 47.3643	1	0 34 43.881	-21 38 39.33	9007	15492 S 6	AV	8266
10 15	C 59 47.3861	1	0 26 9.402	-51 25 31.45	9009	13984 S 9	AV	8275
10 15	C 59 55.3647	1	0 34 42.227	-22 18 44.23	9007	15492 S 7	AV	8267

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 15	1 0 3.3639	1	0 34 40.933	-22 58 51.08	4	9007	15492 S 8	AV	8268
10 16	1 48 27.3622	1	23 12 57.598	-36 15 1.60	4	9009	14000 S 4	AV	338
10 16	1 48 35.3623	1	23 12 27.122	-36 47 20.23	4	9009	14000 S 5	AV	9120
10 16	1 48 43.3622	1	23 11 56.702	-37 19 19.44	4	9009	14000 S 6	AV	9121
10 16	1 48 51.3624	1	23 11 26.121	-37 51 9.47	4	9009	14000 S 7	AV	9122
10 16	1 48 59.3590	1	23 26 57.199	2 20 58.37	4	9007	15517 S 2	AV	9112
10 16	1 48 59.3621	1	23 10 55.299	-38 22 43.96	4	9009	14000 S 8	AV	339
10 16	1 49 7.3579	1	23 26 30.401	1 38 1.85	4	9007	15517 S 3	AV	9113
10 16	1 49 7.3622	1	23 10 24.495	-38 53 59.86	4	9009	14000 S 9	AV	9124
10 16	1 49 15.3586	1	23 26 3.328	0 54 53.58	4	9007	15517 S 4	AV	9114
10 16	1 49 15.3621	1	23 9 53.242	-39 25 5.75	4	9009	14000 S10	AV	9125
10 16	1 49 23.3586	1	23 25 36.072	0 11 32.56	4	9007	15517 S 5	AV	9115
10 16	1 49 31.3583	1	23 25 9.032	-0 31 57.49	4	9007	15517 S 6	AV	9116
10 16	1 49 39.3575	1	23 24 41.589	-1 15 40.45	4	9007	15517 S 7	AV	9117
10 16	1 49 47.3573	1	23 24 14.523	-1 59 30.17	4	9007	15517 S 8	AV	9118
10 16	1 50 43.3932	1	22 43 57.116	13 40 27.41	4	9011	16451 S 6	AV	8834
10 16	1 50 51.3932	1	22 43 29.189	13 6 48.04	4	9011	16451 S 7	AV	8835
10 16	1 50 59.3540	1	23 20 6.706	-8 40 43.53	4	9007	15518 S 2	AV	8829
10 16	1 50 59.3935	1	22 43 0.986	12 32 58.50	4	9011	16451 S 8	AV	8836
10 16	1 51 7.3533	1	23 19 38.705	-9 25 53.89	4	9007	15518 S 3	AV	8830
10 16	1 51 15.3532	1	23 19 10.648	-10 11 3.63	4	9007	15518 S 4	AV	8831
10 16	1 51 15.3936	1	22 42 4.501	11 24 27.41	4	9011	16451 S10	AV	8837
10 16	1 51 23.3530	1	23 18 42.690	-10 56 27.56	4	9007	15518 S 5	AV	8832
10 16	1 51 23.3938	1	22 41 36.178	10 49 53.46	4	9011	16451 S11	AV	8838
10 16	1 51 31.3525	1	23 18 14.546	-11 41 50.57	4	9007	15518 S 6	AV	9371
10 16	1 51 31.3940	1	22 41 7.329	10 15 4.34	4	9011	16451 S12	AV	8839
10 17	2 16 59.3757	1	2 16 31.846	67 13 13.81	4	9010	15317 S 3	LM	6269
10 17	2 16 59.3858	1	2 53 13.234	41 26 37.24	4	9001	18075 S 6	LM	6265
10 17	2 17 7.3758	1	2 12 34.393	66 50 19.66	4	9010	15317 S 4	LM	6270
10 17	2 17 7.3855	1	2 51 28.500	41 5 53.09	4	9001	18075 S 7	LM	6266
10 17	2 17 15.3759	1	2 8 41.972	66 26 51.50	4	9010	15317 S 5	LM	6271
10 17	2 17 15.3857	1	2 49 44.905	40 44 53.43	4	9001	18075 S 8	LM	6971
10 17	2 17 23.3761	1	2 4 56.177	66 2 50.61	4	9010	15317 S 6	LM	6272
10 17	2 17 23.3856	1	2 48 2.460	40 23 44.30	4	9001	18075 S 9	LM	7948
10 17	2 19 55.3856	1	2 18 55.588	33 3 9.00	4	9001	18076 S 1	LM	7067
10 17	2 20 3.3763	1	23 8 16.719	73 50 51.56	4	9009	14013 S 1	LM	7074
10 17	2 20 3.3865	1	2 17 33.620	32 38 9.57	4	9001	18076 S 2	LM	7068
10 17	2 20 11.3761	1	23 7 1.059	73 23 8.30	4	9009	14013 S 2	LM	7075
10 17	2 20 11.3862	1	2 16 12.414	32 12 58.52	4	9001	18076 S 3	LM	7069
10 17	2 20 19.3765	1	23 5 49.183	72 55 15.48	4	9009	14013 S 3	LM	7076
10 17	2 20 19.3862	1	2 14 52.309	31 47 43.32	4	9001	18076 S 4	LM	7070
10 17	2 20 27.3765	1	23 4 39.771	72 27 8.25	4	9009	14013 S 4	LM	7077
10 17	2 20 27.3864	1	2 13 33.243	31 22 18.17	4	9001	18076 S 5	LM	7071
10 17	2 20 35.3766	1	23 3 33.033	71 58 50.46	4	9009	14013 S 5	LM	7078
10 17	2 20 35.3861	1	2 12 14.920	30 56 39.25	4	9001	18076 S 6	LM	7072

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 17	2 20 43.3767	1	23 2 28.912	71 30 10.62	9009	14013 S 6	LM	7079
10 17	2 20 43.3865	1	2 10 57.573	30 30 54.76	9001	18076 S 7	LM	7073
10 17	2 20 51.3769	1	23 1 27.312	71 1 28.58	9008	14013 S 7	LM	7080
10 17	18 51 55.3689	1	20 59 55.825	72 13 11.99	9008	20096 S 2	PG	6353
10 17	18 51 55.3798	1	19 41 6.329	48 42 48.31	9006	14197 S 2	PG	6360
10 17	18 52 3.3693	1	21 2 15.957	71 39 6.28	9008	20096 S 3	PG	6354
10 17	18 52 3.3797	1	19 42 44.362	48 16 53.74	9006	14197 S 3	PG	6980
10 17	18 52 11.3689	1	21 4 28.532	71 4 47.19	9008	20096 S 4	PG	6355
10 17	18 52 11.3798	1	19 44 20.750	47 50 44.32	9006	14197 S 4	PG	6362
10 17	18 52 19.3691	1	21 6 34.259	70 30 4.74	9008	20096 S 5	PG	6356
10 17	18 52 19.3802	1	19 45 55.030	47 24 25.93	9006	14197 S 5	PG	6981
10 17	18 52 27.3695	1	21 8 32.725	69 55 4.72	9008	20096 S 6	PG	6357
10 17	18 52 27.3801	1	19 47 27.632	46 58 0.92	9006	14197 S 6	PG	7950
10 17	18 52 35.3696	1	21 10 24.946	69 19 39.63	9008	20096 S 7	PG	6358
10 17	18 52 35.3799	1	19 48 58.372	46 31 24.90	9006	14197 S 7	PG	6365
10 17	18 52 43.3700	1	21 12 10.673	68 44 3.55	9008	20096 S 8	PG	6359
10 17	18 52 43.3801	1	19 50 26.715	46 4 45.11	9006	14197 S 8	PG	7951
10 17	18 55 15.3829	1	20 13 28.232	37 18 10.03	9006	14198 S 3	PG	6397
10 17	18 55 23.3750	1	21 34 8.259	55 55 13.20	9008	20097 S 2	PG	6401
10 17	18 55 23.3832	1	20 14 27.399	36 49 48.81	9006	14198 S 4	PG	6398
10 17	18 55 31.3751	1	21 34 48.104	55 14 25.83	9008	20097 S 3	PG	6402
10 17	18 55 31.3829	1	20 15 25.121	36 21 20.79	9006	14198 S 5	PG	6399
10 17	18 55 39.3754	1	21 35 26.166	54 33 21.74	9008	20097 S 4	PG	6403
10 17	18 55 39.3828	1	20 16 21.738	35 52 52.70	9006	14198 S 6	PG	6400
10 17	18 55 47.3754	1	21 36 2.728	53 52 10.71	9008	20097 S 5	PG	6404
10 17	18 55 55.3756	1	21 36 37.452	53 10 42.94	9008	20097 S 6	PG	6979
10 19	9 39 38.4378	1	20 7 21.078	52 43 38.74	9012	15689 S 2	RO	5853
10 19	9 39 46.4377	1	20 8 43.419	52 14 17.38	9012	15689 S 3	RO	5854
10 19	9 39 54.4376	1	20 10 3.224	51 44 36.02	9012	15689 S 4	RO	5855
10 19	9 40 2.4380	1	20 11 21.745	51 14 48.33	9012	15689 S 5	RO	5856
10 19	9 40 10.4380	1	20 12 37.496	50 44 48.75	9012	15689 S 6	RO	5857
10 19	9 40 18.4379	1	20 13 52.096	50 14 41.73	9012	15689 S 7	RO	5858
10 19	9 41 38.4319	1	20 24 41.471	45 5 2.48	9012	15690 S 3	RO	6113
10 19	9 41 46.4317	1	20 25 38.166	44 33 14.75	9012	15690 S 4	RO	6114
10 19	9 41 54.4315	1	20 26 33.156	44 1 26.68	9012	15690 S 5	RO	6115
10 19	9 42 2.4313	1	20 27 27.516	43 29 27.37	9012	15690 S 6	RO	6116
10 19	9 42 10.4314	1	20 28 19.598	42 57 30.17	9012	15690 S 7	RO	6117
10 19	20 37 23.3814	1	19 4 57.509	55 23 40.20	9008	20143 S 2	VP	6987
10 19	20 37 23.7678	1	3 46 53.731	62 6 31.06	9004	15869 S 4	VP	6286
10 19	20 37 31.3812	1	19 7 18.137	55 2 5.48	9008	20143 S 3	VP	6292
10 19	20 37 31.7678	1	3 42 54.225	61 51 44.85	9004	15869 S 5	VP	6287
10 19	20 37 39.3813	1	19 9 36.069	54 40 20.39	9008	20143 S 4	VP	6293
10 19	20 37 39.7682	1	3 38 56.213	61 36 37.23	9004	15869 S 6	VP	7953
10 19	20 37 47.3813	1	19 11 50.874	54 18 12.95	9008	20143 S 5	VP	6294
10 19	20 37 47.7680	1	3 35 2.490	61 20 39.48	9004	15869 S 7	VP	6288

Satellite 1961 Alpha Delta 1

19 October - 22 October 1964

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 19	20 37 55.7682	1	3 31 9.242	61 4 10.07	9004	15869 S 8	VP	6985
10 19	20 38 3.3814	1	19 16 13.608	53 33 15.27	9008	20143 S 7	VP	6295
10 19	20 38 3.7682	1	3 27 20.939	60 47 17.97	9004	15869 S 9	VP	6986
10 22	15 8 51.3806	1	2 28 24.345	31 44 44.63	9008	20177 S 4	VD	6037
10 22	15 8 51.3821	1	1 25 59.743	49 18 28.62	9006	14312 S 7	VD	6032
10 22	15 8 59.3805	1	2 27 10.923	31 21 43.60	9008	20177 S 5	VD	6038
10 22	15 8 59.3824	1	1 24 1.457	48 44 16.95	9006	14312 S 8	VD	6033
10 22	15 9 7.3808	1	2 25 58.259	30 58 36.14	9008	20177 S 6	VD	6039
10 22	15 9 7.3829	1	1 22 5.914	48 9 43.11	9006	14312 S 9	VD	6034
10 22	15 9 15.3808	1	2 24 46.396	30 35 17.09	9008	20177 S 7	VD	6040
10 22	15 9 15.3832	1	1 20 12.577	47 34 52.43	9006	14312 S 10	VD	6035
10 22	15 9 23.3809	1	2 23 35.849	30 11 56.11	9008	20177 S 8	VD	6978
10 22	15 9 23.3832	1	1 18 21.316	46 59 41.69	9006	14312 S 11	VD	6036
10 22	17 52 35.3767	1	23 44 30.164	66 20 14.26	9008	20185 S 5	VD	6690
10 22	17 52 35.3900	1	20 19 51.351	49 26 12.54	9006	14317 S 3	VD	6685
10 22	17 52 43.3771	1	23 42 49.664	65 42 19.98	9008	20185 S 6	VD	6691
10 22	17 52 43.3899	1	20 21 15.331	48 53 56.08	9006	14317 S 4	VD	6686
10 22	17 52 51.3771	1	23 41 13.189	65 4 2.06	9008	20185 S 7	VD	6692
10 22	17 52 51.3902	1	20 22 37.013	48 21 22.85	9006	14317 S 5	VD	6687
10 22	17 52 59.3772	1	23 39 40.844	64 25 28.76	9008	20185 S 8	VD	6693
10 22	17 52 59.3904	1	20 23 55.548	47 48 47.66	9006	14317 S 6	VD	6688
10 22	17 53 7.3776	1	23 38 11.373	63 46 39.27	9008	20185 S 9	VD	6694
10 22	17 53 7.3905	1	20 25 13.474	47 16 3.03	9006	14317 S 7	VD	6689
10 22	20 39 15.3868	1	1 38 6.665	45 32 36.94	9004	15897 S 2	DM	8571
10 22	20 39 23.3820	1	20 15 57.084	36 24 53.93	9008	20187 S 2	DM	8577
10 22	20 39 23.3867	1	1 36 6.268	44 58 13.96	9004	15897 S 3	DM	8572
10 22	20 39 31.3819	1	20 16 55.028	35 57 47.46	9008	20187 S 3	DM	8578
10 22	20 39 31.3866	1	1 34 8.511	44 23 33.60	9004	15897 S 4	DM	8573
10 22	20 39 39.3820	1	20 17 51.962	35 30 33.31	9008	20187 S 4	DM	9342
10 22	20 39 39.3867	1	1 32 12.762	43 48 32.29	9004	15897 S 5	DM	8574
10 22	20 39 47.3821	1	20 18 47.909	35 3 23.22	9008	20187 S 5	DM	9343
10 22	20 39 47.3867	1	1 30 19.387	43 13 16.52	9004	15897 S 6	DM	8575
10 22	20 39 55.3821	1	20 19 42.453	34 36 8.88	9008	20187 S 6	DM	9344
10 22	20 39 55.3867	1	1 28 27.931	42 37 44.08	9004	15897 S 7	DM	8576
10 22	20 40 3.3822	1	20 20 36.394	34 8 51.65	9008	20187 S 7	DM	8582
10 22	20 40 11.3823	1	20 21 29.324	33 41 35.59	9008	20187 S 8	DM	8583
10 22	20 42 59.3945	1	0 53 57.482	28 6 44.51	9004	15898 S 6	DM	658
10 22	20 43 7.3944	1	0 52 44.931	27 27 24.09	9004	15898 S 7	DM	659
10 22	20 43 15.3945	1	0 51 33.725	26 47 58.86	9004	15898 S 8	DM	2541
10 22	20 43 23.3874	1	20 38 10.589	22 48 20.03	9008	20188 S 7	DM	663
10 22	20 43 23.3943	1	0 50 23.453	26 8 35.94	9004	15898 S 9	DM	2542
10 22	20 43 31.3875	1	20 38 43.085	22 21 28.07	9008	20188 S 8	DM	1721
10 22	20 43 31.3942	1	0 49 14.411	25 29 1.33	9004	15898 S 10	DM	2543
10 22	20 43 39.3877	1	20 39 14.752	21 54 35.64	9008	20188 S 9	DM	665
10 22	20 43 47.3880	1	20 39 45.541	21 27 45.08	9008	20188 S 10	DM	1722

Satellite 1961 Alpha Delta 1

25 October 1964

DATE		TIME (A-1)		RMS	R.A. (1950.0)		DECL. (1950.0)		RMS	STATION		FRAME NO.		MS	OBS. NO.	
Y	M	D	H	M	S	RMS	H	M	S	R.A. (1950.0)	D	M	S	RMS	STATION	OBS. NO.
1964	10	25	1	17	7.3867	1	1	37	33.997	39 25 21.25	4	15414	S	9	PK	7959
	10	25	1	19	39.3875	1	0	24	8.783	53 18 3.56	4	14095	S	3	YK	6677
	10	25	1	19	39.3917	1	1	12	21.104	28 14 22.82	4	15415	S	3	YK	6975
	10	25	1	19	47.3880	1	0	22	49.525	52 44 57.76	4	14095	S	4	YK	6678
	10	25	1	19	47.3921	1	1	11	12.671	27 37 19.35	4	15415	S	4	YK	6681
	10	25	1	19	55.3876	1	0	21	31.831	52 11 36.50	4	14095	S	5	YK	6972
	10	25	1	19	55.3922	1	1	10	4.961	27 0 0.69	4	15415	S	5	YK	6682
	10	25	1	20	3.3883	1	0	20	15.188	51 37 54.62	4	14095	S	6	YK	8664
	10	25	1	20	3.3924	1	1	8	58.347	26 22 40.92	4	15415	S	6	YK	6683
	10	25	1	20	11.3879	1	0	19	0.212	51 3 56.64	4	14095	S	7	YK	6974
	10	25	1	20	11.3927	1	1	7	52.620	25 45 8.46	4	15415	S	7	YK	6976
	10	25	1	20	19.3883	1	0	17	46.489	50 29 40.73	4	14095	S	8	YK	6679
	10	25	1	20	19.3927	1	1	6	47.839	25 7 33.81	4	15415	S	8	YK	6977
	10	25	1	20	27.3882	1	0	16	34.257	49 55 1.70	4	14095	S	9	YK	6680
	10	25	1	20	27.3930	1	1	5	44.155	24 29 48.37	4	15415	S	9	YK	6684
	10	25	1	30	11.3994	1	23	21	1.763	-1 53 42.91	4	14097	S	3	RO	8622
	10	25	1	30	11.4001	1	0	14	29.464	-19 54 52.25	4	15417	S	4	RO	8629
	10	25	1	30	19.3992	1	23	20	29.319	-2 38 11.23	4	14097	S	4	RO	8623
	10	25	1	30	19.4002	1	0	14	0.925	-20 26 24.51	4	15417	S	5	RO	8630
	10	25	1	30	27.3993	1	23	19	56.735	-3 22 32.83	4	14097	S	5	RO	8624
	10	25	1	30	27.4004	1	0	13	33.126	-20 57 43.26	4	15417	S	6	RO	8631
	10	25	1	30	35.3996	1	23	19	24.506	-4 6 43.91	4	14097	S	6	RO	8625
	10	25	1	30	35.4005	1	0	13	5.311	-21 28 51.68	4	15417	S	7	RO	8632
	10	25	1	30	43.3995	1	23	18	52.207	-4 50 45.55	4	14097	S	7	RO	8626
	10	25	1	30	43.4005	1	0	12	37.740	-21 59 48.69	4	15417	S	8	RO	8633
	10	25	1	30	51.3996	1	23	18	20.146	-5 34 35.50	4	14097	S	8	RO	8627
	10	25	1	30	51.4006	1	0	12	10.416	-22 30 37.95	4	15417	S	9	RO	8634
	10	25	1	30	59.3994	1	23	17	48.096	-6 18 18.89	4	14097	S	9	RO	8628
	10	25	1	32	27.3956	1	23	12	1.781	-14 5 16.62	4	14098	S	2	PK	6420
	10	25	1	32	27.4068	1	0	6	57.477	-28 25 55.47	4	15418	S	3	YK	6427
	10	25	1	32	35.3956	1	23	11	30.510	-14 46 23.82	4	14098	S	3	PK	6421
	10	25	1	32	35.4067	1	0	6	32.547	-28 54 24.80	4	15418	S	4	YK	6428
	10	25	1	32	43.3956	1	23	10	59.212	-15 27 14.11	4	14098	S	4	PK	6422
	10	25	1	32	43.4069	1	0	6	7.893	-29 22 41.22	4	15418	S	5	YK	6429
	10	25	1	32	51.3956	1	23	10	28.199	-16 7 53.71	4	14098	S	5	PK	6423
	10	25	1	32	51.4069	1	0	5	43.349	-29 50 47.02	4	15418	S	6	YK	6430
	10	25	1	32	59.3954	1	23	9	57.092	-16 48 17.13	4	14098	S	6	PK	6424
	10	25	1	32	59.4071	1	0	5	19.054	-30 18 43.98	4	15418	S	7	YK	6431
	10	25	1	33	7.3954	1	23	9	26.039	-17 28 24.37	4	14098	S	7	PK	6425
	10	25	1	33	7.4070	1	0	4	54.559	-30 46 29.01	4	15418	S	8	YK	6989
	10	25	1	33	15.3953	1	23	8	54.920	-18 8 18.78	4	14098	S	8	PK	6426
	10	25	1	33	15.4070	1	0	4	30.517	-31 14 8.07	4	15418	S	9	YK	6433
	10	25	1	40	27.3977	1	22	38	42.037	-47 38 3.92	4	14100	S	2	VD	6517
	10	25	1	40	27.4132	1	22	28	18.414	9 39 7.97	4	16555	S	5	VD	6522
	10	25	1	40	35.3977	1	22	38	2.850	-48 4 16.58	4	14100	S	3	VD	6518

Satellite 1961 Alpha Delta 1

25 October 1964

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 25	1 40 35.4132	1	22 27 47.030	9 4 30.99	9011	16555 S 6	VD	6523
10 25	1 40 43.3976	1	22 37 22.886	-48 30 20.28	9009	14100 S 4	VD	6519
10 25	1 40 43.4130	1	22 27 15.161	8 29 38.13	9011	16555 S 7	VD	6991
10 25	1 40 51.3975	1	22 36 42.959	-48 56 10.68	9009	14100 S 5	VD	6520
10 25	1 40 51.4129	1	22 26 43.382	7 54 33.47	9011	16555 S 8	VD	6525
10 25	1 41 7.3975	1	22 35 21.690	-49 47 14.34	9009	14100 S 7	VD	6521
10 25	4 3 23.3935	1	23 54 4.551	36 58 41.10	9001	18217 S13	RO	9412
10 25	4 3 23.7775	1	21 4 15.057	36 6 23.39	9010	15422 S 4	RO	9419
10 25	4 3 31.3934	1	23 53 5.972	36 13 14.98	9001	18217 S14	RO	9413
10 25	4 3 31.7776	1	21 4 49.825	35 29 6.99	9010	15422 S 5	RO	9420
10 25	4 3 39.3935	1	23 52 8.785	35 27 40.39	9001	18217 S15	RO	9414
10 25	4 3 39.7776	1	21 5 23.609	34 51 43.62	9010	15422 S 6	RO	9421
10 25	4 3 47.3936	1	23 51 12.520	34 42 4.41	9001	18217 S16	RO	9415
10 25	4 3 47.7778	1	21 5 56.803	34 14 29.76	9010	15422 S 7	RO	9422
10 25	4 3 55.3938	1	23 50 17.405	33 56 23.17	9001	18217 S17	RO	9416
10 25	4 3 55.7780	1	21 6 28.843	33 37 7.90	9010	15422 S 8	RO	9423
10 25	4 4 3.3940	1	23 49 23.511	33 10 38.60	9001	18217 S18	RO	9417
10 25	4 4 3.7781	1	23 7 0.000	32 59 47.50	9010	15422 S 9	RO	9424
10 25	4 4 11.3942	1	23 48 30.350	32 24 49.92	9001	18217 S19	RO	9418
10 25	4 4 11.7784	1	21 7 30.438	32 22 26.31	9010	15422 S10	RO	9425
10 25	15 1 7.3793	1	2 43 42.346	64 33 6.05	9006	14385 S 4	LL	7952
10 25	15 1 7.3800	1	3 14 41.641	42 48 24.01	9008	20240 S 1	LL	7435
10 25	15 1 15.3794	1	2 39 55.868	64 11 21.34	9006	14385 S 5	LL	7430
10 25	15 1 15.3799	1	3 12 59.320	42 30 26.01	9008	20240 S 2	LL	7436
10 25	15 1 23.3796	1	2 36 14.418	63 49 4.57	9006	14385 S 6	LL	7431
10 25	15 1 23.3800	1	3 11 17.806	42 12 10.59	9008	20240 S 3	LL	7437
10 25	15 1 31.3800	1	2 32 37.680	63 26 14.24	9006	14385 S 7	LL	7432
10 25	15 1 31.3800	1	3 9 37.345	41 53 46.95	9008	20240 S 4	LL	7438
10 25	15 1 39.3798	1	2 29 5.270	63 2 52.01	9006	14385 S 8	LL	7433
10 25	15 1 39.3802	1	3 7 58.091	41 35 3.93	9008	20240 S 5	LL	7439
10 25	15 1 47.3802	1	2 25 37.210	62 38 57.61	9006	14385 S 9	LL	7434
10 25	15 1 47.3803	1	3 6 19.296	41 16 20.48	9008	20240 S 6	LL	7440
10 25	15 3 23.3806	1	2 47 50.099	37 15 11.08	9008	20241 S 2	LM	7651
10 25	15 3 23.3851	1	1 49 27.365	57 14 11.72	9006	14386 S 1	LM	7644
10 25	15 3 31.3808	1	2 46 23.844	36 53 54.65	9008	20241 S 3	LM	7652
10 25	15 3 31.3855	1	1 46 51.624	56 44 7.59	9006	14386 S 2	LM	7645
10 25	15 3 39.3809	1	2 44 58.329	36 32 28.58	9008	20241 S 4	LM	7653
10 25	15 3 39.3858	1	1 44 19.110	56 13 40.32	9006	14386 S 3	LM	7646
10 25	15 3 47.3809	1	2 43 33.594	36 10 46.10	9008	20241 S 5	LM	7654
10 25	15 3 47.3861	1	1 41 50.066	55 42 48.05	9006	14386 S 4	LM	7647
10 25	15 3 55.3809	1	2 42 9.512	35 48 57.35	9008	20241 S 6	LM	7655
10 25	15 3 55.3861	1	1 39 23.996	55 11 28.43	9006	14386 S 5	LM	7648
10 25	15 4 3.3811	1	2 40 46.936	35 26 57.04	9008	20241 S 7	LM	8665
10 25	15 4 3.3863	1	1 37 1.182	54 39 49.12	9006	14386 S 6	LM	7649
10 25	15 4 11.3811	1	2 39 24.769	35 4 49.53	9008	20241 S 8	LM	7656

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 25	15 4 11.3867	1	1 34 41.680	54 7 46.62	9006	14386 S 7	LM	7650
10 25	17 44 43.3862	1	19 14 45.206	62 54 31.26	9006	14392 S 3	AV	8635
10 25	17 44 43.4532	10	1 43 19.977	29 4 45.95	9115	3504 S 5	AV	8648
10 25	17 44 51.3732	1	1 20 16.728	82 44 51.61	9008	20253 S 3	AV	8642
10 25	17 44 51.3866	1	19 17 47.471	62 30 45.42	9006	14392 S 4	AV	8636
10 25	17 44 51.4544	10	1 41 53.099	28 37 39.83	9115	3504 S 6	AV	8649
10 25	17 44 59.3734	1	1 10 33.552	82 19 42.39	9008	20253 S 4	AV	8643
10 25	17 44 59.3865	1	19 20 45.549	62 6 35.81	9006	14392 S 5	AV	8637
10 25	17 44 59.4556	10	1 40 27.128	28 10 27.00	9115	3504 S 7	AV	8650
10 25	17 45 7.3734	1	1 1 48.637	81 53 39.25	9008	20253 S 5	AV	8644
10 25	17 45 7.3869	1	19 23 39.274	61 42 1.99	9006	14392 S 6	AV	8638
10 25	17 45 7.4571	10	1 39 2.749	27 43 17.83	9115	3504 S 8	AV	8651
10 25	17 45 15.3734	1	0 53 53.239	81 26 43.17	9008	20253 S 6	AV	8645
10 25	17 45 15.3868	1	19 26 28.225	61 17 5.42	9006	14392 S 7	AV	8639
10 25	17 45 15.4579	10	1 37 39.761	27 16 4.91	9115	3504 S 9	AV	8652
10 25	17 45 23.3736	1	0 46 41.653	80 59 1.87	9008	20253 S 7	AV	8646
10 25	17 45 23.3872	1	19 29 13.037	60 51 47.53	9006	14392 S 8	AV	8640
10 25	17 45 23.4593	10	1 36 17.869	26 48 54.83	9115	3504 S10	AV	8653
10 25	17 45 31.3739	1	0 40 8.804	80 30 38.97	9008	20253 S 8	AV	8647
10 25	17 45 31.3872	1	19 31 53.286	60 26 9.20	9006	14392 S 9	AV	8641
10 25	17 48 3.3736	1	23 37 29.591	70 2 52.67	9008	20254 S 3	AV	7281
10 25	17 48 3.3891	1	20 11 19.712	51 25 2.69	9006	14393 S 3	AV	7274
10 25	17 48 11.3737	1	23 35 48.062	69 26 10.52	9008	20254 S 4	AV	7282
10 25	17 48 11.3891	1	20 12 55.189	50 54 15.80	9006	14393 S 4	AV	7275
10 25	17 48 19.3738	1	23 34 10.933	68 49 10.07	9008	20254 S 5	AV	7283
10 25	17 48 19.3890	1	20 14 27.769	50 23 19.20	9006	14393 S 5	AV	7276
10 25	17 48 27.3742	1	23 32 39.336	68 11 44.18	9008	20254 S 6	AV	7284
10 25	17 48 27.3894	1	20 15 58.037	49 52 14.20	9006	14393 S 6	AV	7277
10 25	17 48 35.3744	1	23 31 11.212	67 34 6.32	9008	20254 S 7	AV	7285
10 25	17 48 35.3894	1	20 17 25.998	49 20 55.94	9006	14393 S 7	AV	7278
10 25	17 48 43.3747	1	23 29 47.194	66 56 7.41	9008	20254 S 8	AV	7286
10 25	17 48 43.3895	1	20 18 51.974	48 49 30.58	9006	14393 S 8	AV	7279
10 25	17 48 51.3749	1	23 28 26.404	66 17 50.75	9008	20254 S 9	AV	7287
10 25	17 48 51.3896	1	20 20 15.774	48 17 56.47	9006	14393 S 9	AV	7280
10 25	17 50 19.3799	1	23 16 35.896	58 57 27.87	9008	20255 S 2	AV	7526
10 25	17 50 19.3951	1	20 33 31.797	42 22 9.45	9006	14394 S 2	AV	7520
10 25	17 50 27.3801	1	23 15 43.547	58 15 47.80	9008	20255 S 3	AV	7527
10 25	17 50 27.3950	1	20 34 33.981	41 49 12.23	9006	14394 S 3	AV	7521
10 25	17 50 35.3804	1	23 14 52.737	57 33 51.86	9008	20255 S 4	AV	7528
10 25	17 50 35.3949	1	20 35 34.525	41 16 9.76	9006	14394 S 4	AV	7522
10 25	17 50 43.3806	1	23 14 4.122	56 51 41.45	9008	20255 S 5	AV	7529
10 25	17 50 43.3951	1	20 36 34.084	40 43 2.88	9006	14394 S 5	AV	7523
10 25	17 50 51.3810	1	23 13 15.894	56 9 14.02	9008	20255 S 6	AV	7530
10 25	17 50 51.3955	1	20 37 31.903	40 9 53.93	9006	14394 S 6	AV	7524
10 25	17 50 59.3813	1	23 12 29.844	55 26 32.04	9008	20255 S 7	AV	7531

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 25	17 50 59.3956	1	20 38 28.329	39 36 42.45	4	9006	14394 S 7	AV	7525
10 25	17 51 7.3818	1	23 11 44.345	54 43 34.73	4	9008	20255 S 8	AV	7532
10 25	20 28 19.3751	1	4 44 11.004	66 46 31.40	4	9004	15967 S 6	AV	7775
10 25	20 28 19.3804	1	18 46 24.004	57 19 29.82	4	9008	20260 S 4	AV	7782
10 25	20 28 27.3752	1	4 39 17.552	66 39 41.25	4	9004	15967 S 7	AV	7776
10 25	20 28 27.3803	1	18 49 2.607	57 1 14.64	4	9008	20260 S 5	AV	7783
10 25	20 28 35.3752	1	4 34 24.902	66 32 11.41	4	9004	15967 S 8	AV	7777
10 25	20 28 35.3806	1	18 51 38.967	56 42 41.84	4	9008	20260 S 6	AV	7784
10 25	20 28 43.3753	1	4 29 33.639	66 24 2.12	4	9004	15967 S 9	AV	7778
10 25	20 28 43.3806	1	18 54 11.540	56 23 44.84	4	9008	20260 S 7	AV	7785
10 25	20 28 51.3753	1	4 24 43.767	66 15 12.34	4	9004	15967 S10	AV	7779
10 25	20 28 51.3804	1	18 56 43.216	56 4 41.68	4	9008	20260 S 8	AV	7786
10 25	20 28 59.3754	1	4 19 54.859	66 5 44.23	4	9004	15967 S11	AV	7780
10 25	20 28 59.3809	1	18 59 11.264	55 45 14.71	4	9008	20260 S 9	AV	7787
10 25	20 29 7.3754	1	4 15 9.056	65 55 31.44	4	9004	15967 S12	AV	7781
10 25	20 29 7.3808	1	19 1 36.427	55 25 30.42	4	9008	20260 S10	AV	7788
10 25	20 34 59.3816	1	1 42 12.043	48 43 1.87	4	9004	15969 S 3	PG	7533
10 25	20 34 59.3847	1	20 13 43.341	37 51 48.68	4	9008	20262 S 2	PG	7540
10 25	20 35 7.3818	1	1 40 1.087	48 9 3.32	4	9004	15969 S 4	PG	7534
10 25	20 35 7.3845	1	20 14 45.352	37 25 23.97	4	9008	20262 S 3	PG	7541
10 25	20 35 15.3816	1	1 37 52.759	47 34 46.98	4	9004	15969 S 5	PG	7535
10 25	20 35 15.3844	1	20 15 46.343	36 58 55.32	4	9008	20262 S 4	PG	7981
10 25	20 35 23.3817	1	1 35 47.135	47 0 10.20	4	9004	15969 S 6	PG	7536
10 25	20 35 23.3846	1	20 16 46.052	36 32 25.77	4	9008	20262 S 5	PG	7543
10 25	20 35 31.3819	1	1 33 44.042	46 25 14.82	4	9004	15969 S 7	PG	7537
10 25	20 35 31.3846	1	20 17 44.943	36 5 54.00	4	9008	20262 S 6	PG	9361
10 25	20 35 39.3818	1	1 31 43.519	45 50 0.26	4	9004	15969 S 8	PG	7538
10 25	20 35 39.3843	1	20 18 42.516	35 39 16.73	4	9008	20262 S 7	PG	7545
10 25	20 35 47.3817	1	1 29 45.123	45 14 27.70	4	9004	15969 S 9	PG	7539
10 25	20 35 47.3848	1	20 19 38.954	35 12 40.97	4	9008	20262 S 8	PG	7546
10 25	20 37 15.3771	1	1 10 28.174	38 26 35.00	4	9004	15970 S 4	BN	7404
10 25	20 37 23.3773	1	1 8 54.622	37 48 10.71	4	9004	15970 S 5	BN	7405
10 25	20 37 23.3897	1	20 29 39.400	29 51 59.27	4	9008	20263 S 2	BN	7970
10 25	20 37 31.3775	1	1 7 22.852	37 9 35.74	4	9004	15970 S 6	BN	7969
10 25	20 37 31.3898	1	20 30 23.404	29 25 14.50	4	9008	20263 S 3	BN	7971
10 25	20 37 39.3774	1	1 5 53.147	36 30 51.80	4	9004	15970 S 7	BN	7407
10 25	20 37 39.3896	1	20 31 7.214	28 58 30.45	4	9008	20263 S 4	BN	7412
10 25	20 37 47.3774	1	1 4 24.515	35 51 55.55	4	9004	15970 S 8	BN	7408
10 25	20 37 47.3896	1	20 31 49.746	28 31 45.09	4	9008	20263 S 5	BN	7972
10 25	20 37 55.3775	1	1 2 57.664	35 12 52.30	4	9004	15970 S 9	BN	7409
10 25	20 37 55.3898	1	20 32 31.303	28 5 3.76	4	9008	20263 S 6	BN	7414
10 25	20 38 3.3774	1	1 1 32.469	34 33 40.99	4	9004	15970 S10	BN	7410
10 25	20 38 3.3899	1	20 33 12.246	27 38 19.50	4	9008	20263 S 7	BN	7415
10 25	23 27 47.3511	1	21 23 32.436	12 46 20.53	4	9004	15977 S 2	PG	6842
10 25	23 27 47.3890	1	2 19 30.831	35 32 22.10	4	9009	14106 S 4	PG	6838

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 25	23 27 55.3507	1	21 23 48.282	12 13 43.43	4	9004	15977 S 3	PG	6843
10 25	23 27 55.3890	1	2 18 29.911	35 9 12.15	4	9009	14106 S 5	PG	6839
10 25	23 28 3.3508	1	21 24 3.634	11 41 20.51	4	9004	15977 S 4	PG	6844
10 25	23 28 3.3891	1	2 17 29.888	34 45 52.36	4	9009	14106 S 6	PG	7954
10 25	23 28 11.3507	1	21 24 18.714	11 9 14.42	4	9004	15977 S 5	PG	6845
10 25	23 28 11.3890	1	2 16 30.341	34 22 20.92	4	9009	14106 S 7	PG	6840
10 25	23 28 19.3506	1	21 24 33.137	10 37 11.05	4	9004	15977 S 6	PG	6846
10 25	23 28 19.3895	1	2 15 31.600	33 58 43.47	4	9009	14106 S 8	PG	6841
10 25	23 28 27.3505	1	21 24 47.148	10 5 18.77	4	9004	15977 S 7	PG	6847
10 25	23 28 27.3893	1	2 14 33.313	33 34 53.53	4	9009	14106 S 9	PG	7955
10 25	23 28 35.3505	1	21 25 0.809	9 33 35.02	4	9004	15977 S 8	PG	6848
10 25	23 28 35.3893	1	2 13 35.864	33 10 54.80	4	9009	14106 S10	PG	7956
10 26	2 9 7.3811	1	0 32 51.244	57 17 33.75	4	9010	15436 S 6	GL	7979
10 26	2 9 15.3813	1	0 31 0.444	56 40 26.46	4	9010	15436 S 7	GL	7228
10 26	2 9 23.3814	1	0 29 12.745	56 2 59.86	4	9010	15436 S 8	GL	9356
10 26	2 9 23.3858	1	22 11 13.533	70 30 44.35	4	9009	14116 S 6	GL	7221
10 26	2 9 31.3817	1	0 27 27.881	55 25 9.77	4	9010	15436 S 9	GL	7230
10 26	2 9 31.3857	1	22 11 21.740	70 1 24.89	4	9009	14116 S 7	GL	7222
10 26	2 9 39.3819	1	0 25 46.131	54 47 0.28	4	9010	15436 S10	GL	7231
10 26	2 9 39.3858	1	22 11 29.042	69 31 55.59	4	9009	14116 S 8	GL	7223
10 26	2 9 47.3821	1	0 24 6.617	54 8 30.75	4	9010	15436 S11	GL	7232
10 26	2 9 47.3860	1	22 11 36.133	69 2 6.62	4	9009	14116 S 9	GL	7224
10 26	2 9 55.3822	1	0 22 29.911	53 29 43.12	4	9010	15436 S12	GL	7978
10 26	2 9 55.3860	1	22 11 42.861	68 32 8.18	4	9009	14116 S10	GL	7225
10 26	2 10 3.3863	1	22 11 47.766	68 2 0.13	4	9009	14116 S11	GL	7976
10 26	2 10 11.3865	1	22 11 52.519	67 31 37.04	4	9009	14116 S12	GL	7977
10 26	2 26 43.4057	1	22 56 23.668	-30 16 40.22	4	9010	15439 S 9	SU	7423
10 26	2 26 51.4035	1	22 4 39.249	25 27 27.71	4	9007	15662 S 9	SU	7416
10 26	2 26 51.4058	1	22 55 58.227	-30 44 27.12	4	9010	15439 S10	SU	7424
10 26	2 26 59.4029	1	22 4 14.982	24 53 28.73	4	9007	15662 S10	SU	7417
10 26	2 26 59.4060	1	22 55 32.347	-31 12 5.28	4	9010	15439 S11	SU	7425
10 26	2 27 7.4038	1	22 3 50.477	24 19 15.85	4	9007	15662 S11	SU	7418
10 26	2 27 7.4059	1	22 55 6.849	-31 39 28.60	4	9010	15439 S12	SU	7426
10 26	2 27 15.4037	1	22 3 25.736	23 44 55.76	4	9007	15662 S12	SU	7419
10 26	2 27 15.4060	1	22 54 41.057	-32 6 38.74	4	9010	15439 S13	SU	7427
10 26	2 27 23.4036	1	22 3 0.921	23 10 25.72	4	9007	15662 S13	SU	7420
10 26	2 27 23.4060	1	22 54 15.293	-32 33 39.01	4	9010	15439 S14	SU	7428
10 26	2 27 31.4029	1	22 2 35.675	22 35 42.27	4	9007	15662 S14	SU	7421
10 26	2 27 31.4060	1	22 53 49.244	-33 0 22.06	4	9010	15439 S15	SU	7429
10 26	2 27 39.4033	1	22 2 10.676	22 0 47.52	4	9007	15662 S15	SU	7422
10 26	2 30 11.3948	1	21 53 30.017	10 27 58.18	4	9007	15663 S 6	YK	8351
10 26	2 30 11.4430	1	21 48 17.013	24 2 54.34	4	9011	16570 S 6	SU	7678
10 26	2 30 19.3956	1	21 53 0.077	9 50 7.98	4	9007	15663 S 7	YK	8352
10 26	2 30 19.4430	1	21 47 54.025	23 36 7.73	4	9011	16570 S 7	SU	7679
10 26	2 30 27.3947	1	21 52 30.109	9 12 9.39	4	9007	15663 S 8	YK	8353

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 26	2 30 27.4014	1	21 36 35.476	-28 47 58.14	9009	14120 S 3	BA	8356
10 26	2 30 27.4431	1	21 47 30.659	23 9 13.83	9011	16570 S 8	SU	7680
10 26	2 30 35.3945	1	21 51 59.819	8 34 6.00	9007	15663 S 9	YK	8354
10 26	2 30 35.4015	1	21 36 5.660	-29 17 39.53	9009	14120 S 4	BA	8357
10 26	2 30 35.4430	1	21 47 7.108	22 42 13.37	9011	16570 S 9	SU	7681
10 26	2 30 43.3950	1	21 51 29.000	7 55 53.64	9007	15663 S10	YK	8673
10 26	2 30 43.4014	1	21 35 35.561	-29 47 0.29	9009	14120 S 5	BA	8358
10 26	2 30 43.4433	1	21 46 43.247	22 15 6.01	9011	16570 S10	SU	7682
10 26	2 30 51.3952	1	21 50 58.238	7 17 37.05	9007	15663 S11	YK	8674
10 26	2 30 51.4015	1	21 35 4.944	-30 16 14.67	9009	14120 S 6	BA	8359
10 26	2 30 51.4432	1	21 46 19.457	21 47 50.09	9011	16570 S11	SU	7683
10 26	2 30 59.3949	1	21 50 27.136	6 39 10.96	9007	15663 S12	YK	8675
10 26	2 30 59.4015	1	21 34 34.006	-30 45 13.52	9009	14120 S 7	BA	8360
10 26	2 30 59.4433	1	21 45 55.227	21 20 23.19	9011	16570 S12	SU	7684
10 26	2 31 7.4017	1	21 34 2.779	-31 13 55.46	9009	14120 S 8	YK	8676
10 26	2 31 15.4018	1	21 33 31.331	-31 42 27.65	9009	14120 S 9	YK	8677
10 26	18 37 39.8036	1	18 41 37.661	78 20 8.12	9008	20288 S 5	SU	8815
10 26	18 37 43.2512	10	1 39 53.692	38 3 46.48	9115	3542 S 4	LL	8822
10 26	18 37 47.8036	1	18 49 38.783	78 1 34.76	9008	20288 S 6	SU	8816
10 26	18 37 51.2530	10	1 38 0.237	37 31 37.09	9115	3542 S 5	LL	8823
10 26	18 37 55.8036	1	18 57 18.250	77 42 3.42	9008	20288 S 7	SU	8817
10 26	18 37 59.2549	10	1 36 8.905	36 59 23.34	9115	3542 S 6	LL	8824
10 26	18 38 3.8037	1	19 4 35.941	77 21 40.74	9008	20288 S 8	SU	8818
10 26	18 38 7.2564	10	1 34 20.053	36 27 8.52	9115	3542 S 7	LL	8825
10 26	18 38 11.8040	1	19 11 32.244	77 0 20.90	9008	20288 S 9	SU	8819
10 26	18 38 15.2579	10	1 32 33.463	35 54 50.82	9115	3542 S 8	LL	8826
10 26	18 38 19.8043	1	19 18 8.275	76 38 10.12	9008	20288 S10	SU	8820
10 26	18 38 23.2603	10	1 30 48.661	35 22 26.92	9115	3542 S 9	LL	8827
10 26	18 38 27.8045	1	19 24 24.978	76 15 13.71	9008	20288 S11	SU	8821
10 26	18 38 31.2616	10	1 29 5.814	34 50 1.80	9115	3542 S10	LL	8828
10 26	18 40 39.2841	10	1 5 42.492	26 11 41.92	9115	3543 S 3	VD	9360
10 26	18 40 47.2856	10	1 4 27.639	25 39 39.63	9115	3543 S 4	VD	8385
10 26	18 40 55.2874	10	1 3 13.906	25 7 41.19	9115	3543 S 5	VD	8386
10 26	18 40 59.6223	1	20 39 7.077	67 9 28.06	9008	20289 S 4	VD	7722
10 26	18 41 3.2894	10	1 2 1.916	24 35 51.73	9115	3543 S 6	VD	8387
10 26	18 41 7.3900	1	2 55 26.996	37 13 7.69	9004	15989 S 6	LL	8370
10 26	18 41 7.3913	1	19 55 59.068	44 32 34.06	9006	14419 S 4	LL	8377
10 26	18 41 7.6224	1	20 41 28.432	66 36 23.40	9008	20289 S 5	VD	8678
10 26	18 41 11.2907	10	1 0 51.086	24 3 58.76	9115	3543 S 7	VD	8388
10 26	18 41 15.3899	1	2 53 52.827	36 52 40.27	9004	15989 S 7	LL	8371
10 26	18 41 15.3919	1	19 57 21.857	44 7 17.66	9006	14419 S 5	LL	8378
10 26	18 41 15.6226	1	20 43 44.019	66 2 56.59	9008	20289 S 6	VD	7723
10 26	18 41 19.2926	10	0 59 41.223	23 32 17.25	9115	3543 S 8	VD	8389
10 26	18 41 23.3899	1	2 52 19.050	36 32 5.01	9004	15989 S 8	LL	8372
10 26	18 41 23.3919	1	19 58 43.510	43 41 53.40	9006	14419 S 6	LL	8379

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 26	18 41 23.6227	1	20 45 54.156	65 29 11.95	4	9008	20289 S 7	VD	7724
10 26	18 41 31.3899	1	2 50 47.040	36 11 21.76	4	9004	15989 S 9	LL	8373
10 26	18 41 31.3918	1	20 0 3.620	43 16 20.27	4	9006	14419 S 7	LL	8380
10 26	18 41 31.6230	1	20 47 58.239	64 55 8.11	4	9008	20289 S 8	VD	7725
10 26	18 41 39.3900	1	2 49 15.513	35 50 22.08	4	9004	15989 S10	LL	8374
10 26	18 41 39.3927	1	20 1 21.974	42 50 46.50	4	9006	14419 S 8	LL	8381
10 26	18 41 39.6232	1	20 49 57.376	64 20 44.99	4	9008	20289 S 9	VD	7726
10 26	18 41 47.3899	1	2 47 45.201	35 29 21.52	4	9004	15989 S11	LL	8375
10 26	18 41 47.3924	1	20 2 38.531	42 25 4.58	4	9006	14419 S 9	LL	8382
10 26	18 41 47.6234	1	20 51 51.998	63 46 6.12	4	9008	20289 S10	VD	7727
10 26	18 41 55.3898	1	2 46 15.400	35 8 2.29	4	9004	15989 S12	LL	8376
10 26	18 43 55.3931	1	20 3 54.149	41 59 17.19	4	9006	14419 S10	LL	8383
10 26	18 43 23.4124	1	20 16 15.163	37 10 49.30	4	9006	14420 S 3	SJ	8951
10 26	18 43 27.3174	10	0 43 29.917	15 19 9.85	4	9115	3544 S 4	LM	8390
10 26	18 43 31.3897	1	2 29 33.481	30 41 15.77	4	9004	15990 S 3	CB	8946
10 26	18 43 31.4138	1	20 17 15.000	36 44 17.95	4	9006	14420 S 4	SJ	8952
10 26	18 43 35.3188	10	0 42 36.996	14 49 18.93	4	9115	3544 S 5	LM	8391
10 26	18 43 39.3896	1	2 28 15.627	30 18 10.82	4	9004	15990 S 4	CB	8947
10 26	18 43 39.4141	1	20 18 13.946	36 17 42.79	4	9006	14420 S 5	SJ	8953
10 26	18 43 43.3207	10	0 41 44.924	14 19 40.99	4	9115	3544 S 6	LM	8392
10 26	18 43 47.3894	1	2 26 58.819	29 54 52.35	4	9004	15990 S 5	CB	8948
10 26	18 43 47.4141	1	20 19 11.538	35 51 3.53	4	9006	14420 S 6	SJ	8954
10 26	18 43 51.3221	10	0 40 53.606	13 50 10.45	4	9115	3544 S 7	LM	8393
10 26	18 43 55.3896	1	2 25 42.714	29 31 28.35	4	9004	15990 S 6	CB	8949
10 26	18 43 55.4157	1	20 20 8.413	35 24 22.42	4	9006	14420 S 7	SJ	8955
10 26	18 43 59.3239	10	0 40 3.212	13 20 47.38	4	9115	3544 S 8	LM	335
10 26	18 44 3.3897	1	2 24 27.444	29 8 0.66	4	9004	15990 S 7	YK	8950
10 26	18 44 3.4158	1	20 21 3.720	34 57 42.33	4	9006	14420 S 8	SJ	8956
10 26	18 44 7.3251	10	0 39 13.534	12 51 34.39	4	9115	3544 S 9	LM	8395
10 26	18 44 11.3896	1	2 23 13.212	28 44 25.85	4	9004	15990 S 8	YK	9358
10 26	18 44 11.4163	1	20 21 58.228	34 30 59.61	4	9006	14420 S 9	SJ	8957
10 26	18 44 15.3262	10	0 38 24.449	12 22 24.34	4	9115	3544 S10	LM	8396
10 26	18 44 19.3896	1	2 21 59.691	28 20 43.12	4	9004	15990 S 9	YK	9359
10 26	18 46 31.3485	10	0 26 9.279	4 28 44.68	4	9115	3545 S 1	LM	8917
10 26	18 46 39.3504	10	0 25 31.173	4 2 14.93	4	9115	3545 S 2	LM	8918
10 26	18 46 43.3972	1	2 2 6.482	20 57 33.55	4	9004	15991 S 3	SU	8903
10 26	18 46 43.6526	1	21 29 8.467	39 56 48.85	4	9008	20290 S 4	LM	8910
10 26	18 46 47.3515	10	0 24 53.525	3 35 49.41	4	9115	3545 S 3	LM	8919
10 26	18 46 51.3973	1	2 1 7.009	20 32 18.90	4	9004	15991 S 4	SU	8904
10 26	18 46 51.6527	1	21 29 37.550	39 15 52.74	4	9008	20290 S 5	LM	8911
10 26	18 46 55.3530	10	0 24 16.331	3 9 32.54	4	9115	3545 S 4	LM	9357
10 26	18 46 59.3975	1	2 0 8.348	20 6 52.29	4	9004	15991 S 5	SU	8905
10 26	18 46 59.6529	1	21 30 5.703	38 34 54.61	4	9008	20290 S 6	LM	8912
10 26	18 47 3.3545	10	0 23 39.459	2 43 19.64	4	9115	3545 S 5	LM	8920
10 26	18 47 7.3974	1	1 59 10.132	19 41 29.69	4	9004	15991 S 6	SU	8906

DATE Y M D	TIME (A-1) H M S	RMS MS	R-A ₁ (1950.0) H M S	DECL.-(1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 26	18 47 7.6532	1	21 30 32.950	37 53 51.48	9008	20290 S 7	LM	8913
10 26	18 47 11.3556	10	0 23 3.421	2 17 18.90	9115	3545 S 6	LM	8921
10 26	18 47 15.3974	1	1 58 12.647	19 15 56.40	9004	15991 S 7	SU	8907
10 26	18 47 15.6531	1	21 30 59.568	37 12 43.37	9008	20290 S 8	LM	8914
10 26	18 47 23.3973	1	1 57 15.808	18 50 24.92	9004	15991 S 8	SU	8908
10 26	18 47 23.6536	1	21 31 25.127	36 31 42.45	9008	20290 S 9	LM	8915
10 26	18 47 31.3973	1	1 56 19.484	18 24 45.73	9004	15991 S 9	SU	8909
10 26	18 47 31.6537	1	21 31 50.088	35 50 38.79	9008	20290 S10	LM	8916
10 26	18 50 3.6566	1	21 37 25.953	22 57 15.46	9008	20291 S 3	GL	6856
10 26	18 50 11.6567	1	21 37 37.760	22 17 20.17	9008	20291 S 4	GL	6857
10 26	18 50 19.3993	1	1 38 52.002	9 20 22.80	9004	15992 S 5	GL	7973
10 26	18 50 19.6568	1	21 37 49.092	21 37 33.65	9008	20291 S 5	GL	6858
10 26	18 50 27.3991	1	1 38 8.828	8 54 12.16	9004	15992 S 6	GL	6850
10 26	18 50 27.6571	1	21 38 0.041	20 57 53.42	9008	20291 S 6	GL	6859
10 26	18 50 35.3992	1	1 37 25.156	8 28 8.02	9004	15992 S 7	GL	7974
10 26	18 50 35.6570	1	21 38 10.496	20 18 22.99	9008	20291 S 7	GL	334
10 26	18 50 43.3992	1	1 36 42.295	8 2 4.73	9004	15992 S 8	GL	7975
10 26	18 50 43.6573	1	21 38 20.489	19 39 0.09	9008	20291 S 8	GL	6860
10 26	18 50 51.3991	1	1 35 59.678	7 36 3.56	9004	15992 S 9	GL	6853
10 26	18 50 51.6576	1	21 38 30.104	18 59 39.99	9008	20291 S 9	GL	6861
10 26	18 50 59.3989	1	1 35 17.693	7 9 59.56	9004	15992 S10	GL	6854
10 26	18 51 7.3990	1	1 34 36.117	6 43 59.39	9004	15992 S11	GL	6855
10 26	21 23 8.9123	10	22 56 2.592	48 33 41.49	9115	3559 S 1	KV	791
10 26	21 23 16.9135	10	22 55 53.548	47 47 24.09	9115	3559 S 2	KV	9216
10 26	21 23 23.3916	1	3 4 13.437	79 51 18.21	9004	16000 S 4	SU	9208
10 26	21 23 24.9155	10	22 55 45.034	47 1 20.78	9115	3559 S 3	KV	9217
10 26	21 23 31.3915	1	2 53 21.483	79 33 59.62	9004	16000 S 5	SU	9209
10 26	21 23 32.9166	10	22 55 36.410	46 15 23.64	9115	3559 S 4	KV	9218
10 26	21 23 39.3915	1	2 43 0.273	79 15 10.72	9004	16000 S 6	SU	9210
10 26	21 23 40.9182	10	22 55 27.950	45 29 46.73	9115	3559 S 5	KV	9219
10 26	21 23 47.3918	1	2 33 11.151	78 55 3.44	9004	16000 S 7	SU	9211
10 26	21 23 48.9203	10	22 55 19.937	44 44 10.07	9115	3559 S 6	KV	9220
10 26	21 23 55.3919	1	2 23 52.678	78 33 36.49	9004	16000 S 8	SU	9212
10 26	21 23 56.9218	10	22 55 11.761	43 58 55.98	9115	3559 S 7	KV	333
10 26	21 24 3.3921	1	2 15 5.055	78 10 57.35	9004	16000 S 9	SU	9213
10 26	21 24 11.3921	1	2 6 45.921	77 47 10.21	9004	16000 S10	SU	9214
10 26	21 26 51.3961	1	0 30 0.370	67 7 32.20	9004	16001 S 3	SU	8471
10 26	21 26 59.3961	1	0 27 18.515	66 29 49.27	9004	16001 S 4	SU	8472
10 26	21 27 0.9718	10	22 52 22.186	27 45 44.12	9115	3560 S 1	YK	8478
10 26	21 27 7.3961	1	0 24 43.946	65 51 35.87	9004	16001 S 5	SU	8473
10 26	21 27 8.9740	10	22 52 15.271	27 6 45.03	9115	3560 S 2	YK	8479
10 26	21 27 15.3961	1	0 22 15.809	65 13 0.02	9004	16001 S 6	SU	332
10 26	21 27 16.9754	10	22 52 8.528	26 28 0.91	9115	3560 S 3	YK	8480
10 26	21 27 23.3961	1	0 19 54.163	64 34 0.61	9004	16001 S 7	SU	8475
10 26	21 27 24.9766	10	22 52 1.574	25 49 37.34	9115	3560 S 4	YK	8481

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 26	21 27 31.3960	1	0 17 38.341	63 54 38.42	4	9004	16001 S 8	SU	8476
10 26	21 27 32.9783	10	22 51 54.685	25 11 23.27	4	9115	3560 S 5	YK	8482
10 26	21 27 39.3961	1	0 15 28.079	63 14 55.74	4	9004	16001 S 9	SU	8477
10 26	21 27 40.9807	10	22 51 47.803	24 33 31.65	4	9115	3560 S 6	YK	8483
10 26	21 27 48.9821	10	22 51 40.984	23 55 58.56	4	9115	3560 S 7	YK	8484
10 26	21 28 52.9893	10	22 50 47.067	19 5 46.48	4	9115	3561 S 1	LM	8091
10 26	21 29 0.9906	10	22 50 40.282	18 30 43.77	4	9115	3561 S 2	LM	8092
10 26	21 29 7.3914	1	23 56 16.327	55 36 18.48	4	9004	16002 S 1	BA	8085
10 26	21 29 8.9918	10	22 50 33.466	17 56 7.21	4	9115	3561 S 3	LM	8093
10 26	21 29 15.3916	1	23 54 51.786	54 52 53.89	4	9004	16002 S 2	BA	8086
10 26	21 29 16.9937	10	22 50 26.861	17 21 41.46	4	9115	3561 S 4	LM	8094
10 26	21 29 23.3914	1	23 53 30.061	54 9 14.19	4	9004	16002 S 3	BA	8087
10 26	21 29 24.9952	10	22 50 20.476	16 47 27.99	4	9115	3561 S 5	LM	8095
10 26	21 29 31.3915	1	23 52 10.826	53 25 20.27	4	9004	16002 S 4	BA	8088
10 26	21 29 32.9968	10	22 50 13.594	16 13 28.75	4	9115	3561 S 6	LM	8096
10 26	21 29 39.3915	1	23 50 53.885	52 41 11.89	4	9004	16002 S 5	BA	8089
10 26	21 29 47.3916	1	23 49 39.401	51 56 52.53	4	9004	16002 S 6	LM	8090
10 27	3 6 35.3904	1	22 10 29.511	38 3 1.83	4	9010	15469 S 2	PK	7095
10 27	3 6 35.5204	1	20 46 43.011	48 11 30.61	4	9009	14141 S 1	YK	7960
10 27	3 6 43.3906	1	22 10 29.964	37 18 37.42	4	9010	15469 S 3	PK	7096
10 27	3 6 43.5203	1	20 47 24.429	47 40 10.50	4	9009	14141 S 2	YK	7961
10 27	3 6 51.3908	1	22 10 30.068	36 34 10.39	4	9010	15469 S 4	PK	7097
10 27	3 6 51.5204	1	20 48 4.711	47 8 38.33	4	9009	14141 S 3	YK	7962
10 27	3 6 59.3910	1	22 10 29.941	35 49 35.49	4	9010	15469 S 5	PK	7098
10 27	3 6 59.5207	1	20 48 43.728	46 37 1.87	4	9009	14141 S 4	YK	7963
10 27	3 7 7.3911	1	22 10 29.547	35 5 2.89	4	9010	15469 S 6	PK	7099
10 27	3 7 7.5204	1	20 49 21.770	46 5 15.85	4	9009	14141 S 5	YK	7964
10 27	3 7 15.3914	1	22 10 28.725	34 20 29.56	4	9010	15469 S 7	PK	7100
10 27	3 7 15.5207	1	20 49 58.676	45 33 18.20	4	9009	14141 S 6	YK	7965
10 27	3 7 23.3917	1	22 10 27.660	33 35 52.87	4	9010	15469 S 8	PK	7101
10 27	3 7 23.5210	1	20 50 34.169	45 1 16.57	4	9009	14141 S 7	YK	7094
10 27	17 12 19.9358	1	0 58 45.831	24 32 13.15	4	9002	21162 S 5	PK	1197
10 27	17 12 27.4061	1	23 18 18.210	-36 59 9.62	4	9008	20319 S 1	LM	7661
10 27	17 12 35.4061	1	23 17 53.011	-37 23 30.86	4	9008	20319 S 2	LM	7662
10 27	17 12 35.9363	1	0 58 15.303	23 43 23.14	4	9002	21162 S 6	PK	1198
10 27	17 12 43.4062	1	23 17 28.062	-37 47 41.54	4	9008	20319 S 3	LM	7663
10 27	17 12 51.4062	1	23 17 3.152	-38 11 41.70	4	9008	20319 S 4	LM	7664
10 27	17 12 51.9365	1	0 57 46.195	22 54 12.96	4	9002	21162 S 7	PK	2519
10 27	17 13 7.9365	1	0 57 17.773	22 4 10.68	4	9002	21162 S 8	PK	2520
10 27	19 30 35.2093	1	4 25 1.407	55 58 53.30	4	9004	16030 S 6	VP	8097
10 27	19 30 35.3796	1	18 17 2.300	67 1 55.76	4	9008	20321 S 4	VP	8104
10 27	19 30 43.2091	1	4 21 58.439	55 48 6.36	4	9004	16030 S 7	VP	8098
10 27	19 30 43.3795	1	18 21 14.889	66 45 54.38	4	9008	20321 S 5	VP	8105
10 27	19 30 51.2093	1	4 18 56.123	55 36 57.45	4	9004	16030 S 8	VP	8099
10 27	19 30 51.3795	1	18 25 22.747	66 29 17.14	4	9008	20321 S 6	VP	8106

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 27	19 30 55.8035	10	1 15 18.618	47 39 35.63	9115	3601 S 2	VP	8111
10 27	19 30 59.2095	1	4 15 54.987	55 25 20.38	9004	16030 S 9	VP	8100
10 27	19 30 59.3797	1	18 29 24.790	66 12 10.73	9008	20321 S 7	VP	8107
10 27	19 31 3.8051	10	1 13 5.094	47 1 6.12	9115	3601 S 3	VP	8112
10 27	19 31 7.2093	1	4 12 55.230	55 13 25.36	9004	16030 S10	VP	8101
10 27	19 31 7.3797	1	18 33 23.138	65 54 31.46	9008	20321 S 8	VP	8108
10 27	19 31 11.8066	10	1 10 55.545	46 22 33.67	9115	3601 S 4	VP	8113
10 27	19 31 15.2094	1	4 9 56.390	55 0 59.88	9004	16030 S11	VP	8102
10 27	19 31 15.3800	1	18 37 15.834	65 36 24.38	9008	20321 S 9	VP	8109
10 27	19 31 19.8078	10	1 8 49.157	45 43 52.33	9115	3601 S 5	VP	9349
10 27	19 31 23.2092	1	4 6 58.748	54 48 12.75	9004	16030 S12	VP	8103
10 27	19 31 23.3801	1	18 41 3.738	65 17 44.89	9008	20321 S10	VP	8110
10 27	19 31 27.8092	10	1 6 46.617	45 5 9.22	9115	3601 S 6	VP	8115
10 27	19 34 3.2108	1	3 12 54.121	49 11 17.37	9004	16031 S 5	LL	7288
10 27	19 34 3.3847	1	19 40 56.772	57 36 11.79	9008	20322 S 3	LL	7295
10 27	19 34 7.8398	10	0 35 10.864	32 9 15.29	9115	3602 S 2	VP	9105
10 27	19 34 11.2108	1	3 10 29.066	48 50 38.22	9004	16031 S 6	LL	7289
10 27	19 34 11.3848	1	19 43 14.164	57 9 28.39	9008	20322 S 4	LL	7296
10 27	19 34 15.8415	10	0 33 57.874	31 31 15.14	9115	3602 S 3	VP	9106
10 27	19 34 19.2110	1	3 8 5.682	48 29 37.36	9004	16031 S 7	LL	7290
10 27	19 34 19.3848	1	19 45 28.321	56 42 28.80	9008	20322 S 5	LL	7297
10 27	19 34 23.8534	10	0 32 46.119	30 53 19.34	9115	3602 S 4	VP	9107
10 27	19 34 27.2110	1	3 5 44.041	48 8 14.72	9004	16031 S 8	LL	7291
10 27	19 34 27.3851	1	19 47 38.785	56 15 11.34	9008	20322 S 6	LL	7298
10 27	19 34 31.8354	10	0 31 36.326	30 15 36.54	9115	3602 S 5	VP	9108
10 27	19 34 35.2110	1	3 3 23.923	47 46 36.19	9004	16031 S 9	LL	7292
10 27	19 34 35.3854	1	19 49 45.872	55 47 40.11	9008	20322 S 7	LL	7299
10 27	19 34 39.8373	10	0 30 27.774	29 37 56.77	9115	3602 S 6	VP	9109
10 27	19 34 43.2111	1	3 1 5.689	47 24 32.90	9004	16031 S10	LL	7293
10 27	19 34 43.3853	1	19 51 49.717	55 19 55.12	9008	20322 S 8	LL	7300
10 27	19 34 47.8383	10	0 29 20.730	29 0 25.70	9115	3602 S 7	VP	9110
10 27	19 34 51.2111	1	2 58 49.279	47 2 15.33	9004	16031 S11	LL	7294
10 27	19 34 51.3856	1	19 53 50.950	54 51 49.43	9008	20322 S 9	LL	7301
10 27	19 34 55.8395	10	0 28 15.130	28 23 7.84	9115	3602 S 8	VP	9111
10 27	19 37 31.2089	1	2 19 2.600	38 34 49.84	9004	16032 S 5	BA	8116
10 27	19 37 31.3921	1	20 25 16.723	44 50 45.86	9008	20323 S 4	YK	8667
10 27	19 37 39.2090	1	2 17 19.591	38 6 45.25	9004	16032 S 6	BA	8117
10 27	19 37 39.3923	1	20 26 28.886	44 19 11.33	9008	20323 S 5	YK	8123
10 27	19 37 47.2091	1	2 15 37.700	37 38 32.45	9004	16032 S 7	BA	8118
10 27	19 37 47.3925	1	20 27 39.529	43 47 30.62	9008	20323 S 6	YK	8124
10 27	19 37 55.2093	1	2 13 57.572	37 10 3.38	9004	16032 S 8	BA	8119
10 27	19 37 55.3926	1	20 28 48.594	43 15 44.86	9008	20323 S 7	YK	8125
10 27	19 37 59.8692	10	0 8 8.505	14 54 37.10	9115	3603 S 4	VP	8129
10 27	19 38 3.2091	1	2 12 18.368	36 41 24.47	9004	16032 S 9	BA	8120
10 27	19 38 3.3926	1	20 29 55.842	42 43 47.61	9008	20323 S 8	YK	8126

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 27	19 38 7.8719	10	0 7 26.605	14 21 53.05	9115	3603 S 5	VP	8130
10 27	19 38 11.2092	1	2 10 40.612	36 12 30.38	9004	16032 S10	YK	8121
10 27	19 38 11.3927	1	20 31 1.728	42 11 51.33	9008	20323 S 9	YK	8668
10 27	19 38 15.8733	10	0 6 45.105	13 49 19.98	9115	3603 S 6	VP	8131
10 27	19 38 19.2092	1	2 9 4.403	35 43 29.89	9004	16032 S11	YK	8666
10 27	19 38 19.3931	1	20 32 5.696	41 39 47.39	9008	20323 S10	YK	8669
10 27	19 38 23.8756	10	0 6 4.213	13 16 55.91	9115	3603 S 7	VP	8132
10 27	19 40 59.2107	1	1 41 13.241	25 28 49.83	9004	16033 S 5	VP	6815
10 27	19 40 59.3956	1	20 49 0.312	30 49 38.91	9008	20324 S 4	VP	6822
10 27	19 41 7.2108	1	1 40 1.088	24 56 50.93	9004	16033 S 6	VP	6816
10 27	19 41 7.3954	1	20 49 39.911	30 17 0.36	9008	20324 S 5	VP	6823
10 27	19 41 15.2109	1	1 38 49.944	24 24 46.86	9004	16033 S 7	VP	6817
10 27	19 41 15.3956	1	20 50 18.458	29 44 27.30	9008	20324 S 6	VP	6824
10 27	19 41 23.2105	1	1 37 39.690	23 52 40.82	9004	16033 S 8	VP	6818
10 27	19 41 23.3958	1	20 50 55.949	29 11 50.65	9008	20324 S 7	VP	6825
10 27	19 41 31.2106	1	1 36 30.536	23 20 24.06	9004	16033 S 9	VP	6819
10 27	19 41 31.3960	1	20 51 32.827	28 39 20.65	9008	20324 S 8	VP	6826
10 27	19 41 39.2108	1	1 35 21.991	22 48 7.45	9004	16033 S10	VP	6820
10 27	19 41 39.3962	1	20 52 8.520	28 6 49.46	9008	20324 S 9	VP	6827
10 27	19 41 47.2104	1	1 34 14.563	22 15 45.72	9004	16033 S11	VP	6821
10 27	19 41 47.3963	1	20 52 43.668	27 34 23.28	9008	20324 S10	VP	6828
10 27	19 45 31.2102	1	1 7 59.144	7 4 22.87	9004	16034 S 4	VP	7152
10 27	19 45 31.3971	1	21 4 29.669	12 52 8.65	9008	20325 S 2	VP	7159
10 27	19 45 39.2101	1	1 7 12.412	6 32 12.55	9004	16034 S 5	VP	7153
10 27	19 45 39.3973	1	21 4 46.717	12 21 58.47	9008	20325 S 3	VP	7160
10 27	19 45 47.2103	1	1 6 26.324	6 0 8.00	9004	16034 S 6	VP	7154
10 27	19 45 47.3975	1	21 5 3.175	11 51 53.15	9008	20325 S 4	VP	7161
10 27	19 45 55.2102	1	1 5 40.743	5 28 7.91	9004	16034 S 7	VP	7155
10 27	19 45 55.3973	1	21 5 19.312	11 21 58.14	9008	20325 S 5	VP	7162
10 27	19 46 3.2100	1	1 4 55.679	4 56 8.38	9004	16034 S 8	VP	7156
10 27	19 46 3.3972	1	21 5 35.034	10 52 5.02	9008	20325 S 6	VP	7163
10 27	19 46 11.2099	1	1 4 11.037	4 24 16.67	9004	16034 S 9	VP	7157
10 27	19 46 11.3977	1	21 5 50.314	10 22 22.92	9008	20325 S 7	VP	7164
10 27	19 46 19.2098	1	1 3 26.869	3 52 25.77	9004	16034 S10	VP	7158
10 27	19 46 19.3978	1	21 6 4.898	9 52 45.94	9008	20325 S 8	VP	7165
10 27	19 48 59.2082	1	0 50 24.912	- 6 24 16.56	9004	16035 S 4	LL	7990
10 27	19 48 59.4009	1	21 9 35.788	- 0 26 10.13	9008	20326 S 3	LL	7983
10 27	19 49 7.2083	1	0 49 50.145	- 6 54 2.06	9004	16035 S 5	LL	7991
10 27	19 49 7.4006	1	21 9 42.571	- 0 0 49.05	9008	20326 S 4	LL	7984
10 27	19 49 15.2082	1	0 49 15.848	- 7 23 35.94	9004	16035 S 6	LL	7992
10 27	19 49 15.4006	1	21 9 48.782	- 0 27 43.16	9008	20326 S 5	LL	7985
10 27	19 49 23.2081	1	0 48 42.004	- 7 53 6.83	9004	16035 S 7	LL	7993
10 27	19 49 23.4007	1	21 9 55.134	- 0 54 24.91	9008	20326 S 6	LL	7986
10 27	19 49 31.2081	1	0 48 8.304	- 8 22 28.12	9004	16035 S 8	LL	7994
10 27	19 49 31.4009	1	21 10 0.675	- 1 21 2.75	9008	20326 S 7	LL	7987

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 27	19 49 39.2081	1	0 47 35.063	- 8 51 42.60	9004	16035 S 9	LL	7995
10 27	19 49 39.4012	1	21 10 6.230	- 1 47 31.20	9008	20326 S 8	LL	7988
10 27	19 49 47.2078	1	0 47 2.281	- 9 20 53.34	9004	16035 S10	LL	7996
10 27	19 49 47.4011	1	21 10 11.272	- 2 13 57.39	9008	20326 S 9	LL	7989
10 28	1 28 43.4168	1	23 22 19.614	28 26 52.66	9007	15682 S 5	KV	7699
10 28	1 28 51.4161	1	23 21 49.619	27 53 0.05	9007	15682 S 6	KV	9346
10 28	1 28 55.4101	1	23 4 48.891	-15 1 31.08	9009	14160 S 9	KV	7705
10 28	1 28 59.4098	1	23 4 33.572	-15 21 50.50	9009	14160 S10	KV	7706
10 28	1 28 59.4160	1	23 21 19.455	27 18 54.75	9007	15682 S 7	KV	7701
10 28	1 29 3.4101	1	23 4 18.214	-15 42 5.94	9009	14160 S11	KV	9348
10 28	1 29 7.4100	1	23 4 2.758	-16 2 17.57	9009	14160 S12	KV	7708
10 28	1 29 7.4176	1	23 20 49.220	26 44 30.10	9007	15682 S 8	KV	7702
10 28	1 29 11.4100	1	23 3 47.297	-16 22 26.77	9009	14160 S13	KV	7709
10 28	1 29 15.4100	1	23 3 32.070	-16 42 30.30	9009	14160 S14	KV	7710
10 28	1 29 19.4100	1	23 3 16.573	-17 2 30.92	9009	14160 S15	KV	7711
10 28	1 29 23.4170	1	23 19 49.438	25 35 2.57	9007	15682 S10	KV	9347
10 28	1 29 31.4169	1	23 19 19.652	24 59 53.95	9007	15682 S11	KV	7704
10 28	9 39 19.9734	1	1 6 26.379	- 6 15 32.72	9005	11258 S 2	RO	7728
10 28	9 39 35.9727	1	1 5 21.404	- 7 10 51.15	9005	11258 S 3	RO	7729
10 28	9 39 51.9722	1	1 4 18.113	- 8 5 58.88	9005	11258 S 4	RO	7730
10 28	9 40 7.9714	1	1 3 16.185	- 9 0 32.82	9005	11258 S 5	RO	7731
10 28	17 39 34.5915	10	2 1 35.470	34 18 41.84	9115	3647 S 2	RO	8133
10 28	17 39 39.3706	1	4 7 9.818	86 57 11.19	9006	20349 S 2	RO	6477
10 28	17 39 39.3867	1	18 45 11.967	65 13 16.55	9006	14474 S 3	RO	6470
10 28	17 39 42.5925	10	1 59 51.160	33 51 39.85	9115	3647 S 3	RO	8134
10 28	17 39 47.3705	1	3 32 28.575	86 49 51.48	9008	20349 S 3	RO	6478
10 28	17 39 47.3868	1	18 48 51.516	64 53 45.07	9006	14474 S 4	RO	6471
10 28	17 39 50.5934	10	1 58 8.165	33 24 32.41	9115	3647 S 4	RO	8135
10 28	17 39 55.3706	1	3 0 51.454	86 38 22.91	9008	20349 S 4	RO	6479
10 28	17 39 55.3868	1	18 52 26.087	64 33 41.07	9006	14474 S 5	RO	6472
10 28	17 39 58.5946	10	1 56 27.341	32 57 24.65	9115	3647 S 5	RO	8136
10 28	17 40 3.3708	1	2 32 50.710	86 23 26.29	9008	20349 S 5	RO	7957
10 28	17 40 3.3868	1	18 55 55.636	64 13 13.30	9006	14474 S 6	RO	6473
10 28	17 40 6.5959	10	1 54 47.966	32 30 7.12	9115	3647 S 6	RO	8137
10 28	17 40 11.3710	1	2 8 33.750	86 5 36.37	9008	20349 S 6	RO	6480
10 28	17 40 11.3868	1	18 59 20.304	63 52 17.92	9006	14474 S 7	RO	6474
10 28	17 40 14.5976	10	1 53 10.114	32 2 49.46	9115	3647 S 7	RO	8138
10 28	17 40 19.3711	1	1 47 46.979	85 45 22.58	9008	20349 S 7	RO	7958
10 28	17 40 19.3870	1	19 2 40.510	63 30 57.59	9006	14474 S 8	RO	6475
10 28	17 40 22.5984	10	1 51 34.011	31 35 23.40	9115	3647 S 8	RO	8139
10 28	17 40 27.3714	1	1 29 59.223	85 23 9.41	9008	20349 S 8	RO	6481
10 28	17 40 27.3872	1	19 5 55.660	63 9 8.80	9006	14474 S 9	RO	6476
10 28	17 43 5.2564	10	1 23 53.805	22 15 32.19	9115	3648 S 3	RO	8363
10 28	17 43 7.3801	1	19 56 36.537	54 39 40.49	9006	14475 S 2	RO	7737
10 28	17 43 7.3923	1	23 32 43.094	75 16 54.32	9008	20350 S 2	RO	7744

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 28	17 43 13.2568	10	1 22 44.837	21 48 10.16	9115	3648 S 4	RO	8364
10 28	17 43 15.3801	1	19 58 31.995	54 11 13.18	9006	14475 S 3	RO	7738
10 28	17 43 15.3926	1	23 30 47.414	74 42 13.64	9008	20350 S 3	RO	7745
10 28	17 43 21.2579	10	1 21 37.030	21 20 55.67	9115	3648 S 5	RO	8365
10 28	17 43 23.3869	1	20 0 24.653	53 42 30.21	9006	14475 S 4	RO	7739
10 28	17 43 23.3925	1	23 28 59.543	74 7 15.00	9008	20350 S 4	RO	7746
10 28	17 43 29.2593	10	1 20 30.006	20 53 38.61	9115	3648 S 6	RO	8366
10 28	17 43 31.3870	1	20 2 14.340	53 13 36.63	9006	14475 S 5	RO	7740
10 28	17 43 31.3928	1	23 27 17.791	73 31 54.73	9008	20350 S 5	RO	7747
10 28	17 43 37.2604	10	1 19 23.995	20 26 24.63	9115	3648 S 7	RO	8367
10 28	17 43 39.3869	1	20 4 1.563	52 44 27.03	9006	14475 S 6	RO	7741
10 28	17 43 39.3929	1	23 25 42.098	72 56 19.98	9008	20350 S 6	RO	7748
10 28	17 43 45.2616	10	1 18 18.842	19 59 10.49	9115	3648 S 8	RO	8368
10 28	17 43 47.3873	1	20 5 46.364	52 15 8.13	9006	14475 S 7	RO	7742
10 28	17 43 47.3931	1	23 24 11.524	72 20 26.07	9008	20350 S 7	RO	7749
10 28	17 43 53.2624	10	1 17 15.063	19 32 4.52	9115	3648 S 9	RO	8369
10 28	17 43 55.3875	1	20 7 28.169	51 45 37.27	9006	14475 S 8	RO	7743
10 28	17 43 55.3935	1	23 22 45.731	71 44 14.79	9008	20350 S 8	RO	7750
10 28	17 45 23.3847	1	23 10 53.281	64 46 59.47	9008	20351 S 2	YK	8491
10 28	17 45 29.2817	10	1 5 33.991	14 11 35.16	9115	3649 S 3	PK	8494
10 28	17 45 31.3691	1	20 24 54.021	45 38 22.10	9006	14476 S 2	YK	8485
10 28	17 45 31.3848	1	23 10 3.434	64 7 26.95	9008	20351 S 3	YK	8492
10 28	17 45 37.2831	10	1 4 40.685	13 45 23.55	9115	3649 S 4	PK	8495
10 28	17 45 39.3849	1	23 9 14.835	63 27 32.19	9008	20351 S 4	YK	8493
10 28	17 45 39.3988	1	20 26 8.345	45 6 40.96	9006	14476 S 3	YK	8486
10 28	17 45 45.2843	10	1 3 48.284	13 19 19.64	9115	3649 S 5	PK	8496
10 28	17 45 47.3852	1	23 8 28.089	62 47 22.62	9008	20351 S 5	YK	9362
10 28	17 45 47.4122	1	20 27 20.497	44 35 0.62	9006	14476 S 4	YK	8487
10 28	17 45 53.2858	10	1 2 56.366	12 53 12.14	9115	3649 S 6	PK	8497
10 28	17 45 55.3868	1	20 28 31.230	44 3 24.60	9006	14476 S 5	YK	8488
10 28	17 46 1.2867	10	1 2 5.319	12 27 14.56	9115	3649 S 7	PK	8498
10 28	17 46 3.3845	1	20 29 40.193	43 31 35.98	9006	14476 S 6	YK	8489
10 28	17 46 9.2877	10	1 1 14.922	12 1 17.63	9115	3649 S 8	PK	8499
10 28	17 46 11.3814	1	20 30 47.480	42 59 40.12	9006	14476 S 7	YK	8490
10 28	18 3 47.4160	1	22 20 29.442	-26 42 45.05	9008	20354 S 2	LL	8157
10 28	18 3 47.4559	1	0 17 26.648	37 1 26.36	9002	21177 S 4	LL	8150
10 28	18 3 55.4160	1	22 20 9.502	-27 9 12.30	9008	20354 S 3	LL	8158
10 28	18 3 55.4563	1	0 17 0.105	36 37 41.68	9002	21177 S 5	LL	9363
10 28	18 4 3.4160	1	22 19 49.152	-27 35 37.83	9008	20354 S 4	LL	8159
10 28	18 4 3.4562	1	0 16 34.053	36 13 49.96	9002	21177 S 6	LL	8152
10 28	18 4 11.4160	1	22 19 28.932	-28 1 47.37	9008	20354 S 5	LL	8160
10 28	18 4 11.4560	1	0 16 8.144	35 49 44.66	9002	21177 S 7	LL	8153
10 28	18 4 19.4158	1	22 19 8.590	-28 27 40.87	9008	20354 S 6	LL	8161
10 28	18 4 19.4563	1	0 15 42.499	35 25 30.90	9002	21177 S 8	LL	8154
10 28	18 4 27.4163	1	22 18 47.909	-28 53 25.69	9008	20354 S 7	LL	8162

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 28	18 4 27.4566	1	0 15 16.881	35 1 5.55	9002	21177 S 9	LL	8155
10 28	18 4 35.4163	1	22 18 27.164	-29 18 58.76	9008	20354 S 8	LL	8163
10 28	18 4 35.4562	1	0 14 51.588	34 36 29.49	9002	21177 S10	LL	8156
10 28	20 23 23.3820	1	18 28 8.095	58 53 52.58	9004	20356 S 4	KV	8169
10 28	20 23 23.3968	1	5 33 54.539	68 31 10.47	9004	16066 S 6	KV	8164
10 28	20 23 31.3819	1	18 31 2.685	58 38 21.31	9008	20356 S 5	KV	8170
10 28	20 23 31.3966	1	5 28 46.870	68 30 49.17	9004	16066 S 7	KV	336
10 28	20 23 39.3820	1	18 33 54.677	58 22 26.38	9008	20356 S 6	KV	8171
10 28	20 23 39.3966	1	5 23 37.548	68 29 45.62	9004	16066 S 8	KV	8679
10 28	20 23 47.3818	1	18 36 45.248	58 6 12.97	9008	20356 S 7	KV	8172
10 28	20 23 47.3971	1	5 18 25.953	68 28 6.82	9004	16066 S 9	KV	8167
10 28	20 23 55.3818	1	18 39 31.676	57 49 41.01	9008	20356 S 8	KV	8173
10 28	20 23 55.3818	1	18 39 31.676	57 49 41.01	9008	20356 S 8	KV	8173
10 28	20 23 55.3970	1	5 13 14.117	68 25 44.75	9004	16066 S10	KV	337
10 28	20 23 55.3970	1	5 13 14.117	68 25 44.75	9004	16066 S10	KV	337
10 28	20 24 3.3820	1	18 42 16.099	57 32 47.06	9008	20356 S 9	KV	8174
10 28	20 24 3.3820	1	18 42 16.099	57 32 47.06	9008	20356 S 9	KV	8174
10 28	20 26 43.3851	1	19 28 24.286	50 57 0.18	9008	20357 S 5	VP	9194
10 28	20 26 45.3151	10	23 52 35.582	41 38 5.03	9115	3663 S 3	VP	9201
10 28	20 26 51.3851	1	19 30 18.066	50 34 49.78	9008	20357 S 6	VP	9195
10 28	20 26 51.3933	1	3 23 47.395	64 36 51.57	9004	16067 S 5	VP	9189
10 28	20 26 53.3163	10	23 51 38.527	40 53 55.91	9115	3663 S 4	VP	9202
10 28	20 26 59.3850	1	19 32 10.379	50 12 21.53	9008	20357 S 7	VP	9196
10 28	20 27 1.3181	10	23 50 43.179	40 10 9.76	9115	3663 S 5	VP	9203
10 28	20 27 7.3851	1	19 34 0.379	49 49 44.24	9008	20357 S 8	VP	9197
10 28	20 27 7.3936	1	3 15 6.675	63 59 23.56	9004	16067 S 7	VP	9190
10 28	20 27 9.3201	10	23 49 49.535	39 26 27.05	9115	3663 S 6	VP	9204
10 28	20 27 15.3853	1	19 35 48.787	49 26 59.62	9008	20357 S 9	VP	9198
10 28	20 27 15.3935	1	3 10 53.608	63 39 41.21	9004	16067 S 8	VP	9191
10 28	20 27 17.3219	10	23 48 57.135	38 43 5.00	9115	3663 S 7	VP	9205
10 28	20 27 23.3853	1	19 37 34.566	49 4 3.98	9008	20357 S10	VP	9199
10 28	20 27 23.3934	1	3 6 45.007	63 19 22.22	9004	16067 S 9	VP	9192
10 28	20 27 25.3234	10	23 48 6.107	37 59 45.08	9115	3663 S 8	VP	9206
10 28	20 27 31.3855	1	19 39 18.527	48 40 55.46	9008	20357 S11	VP	9200
10 28	20 27 31.3937	1	3 2 40.734	62 58 25.90	9004	16067 S10	VP	9193
10 28	20 27 33.3257	10	23 47 16.797	37 16 43.25	9115	3663 S 9	VP	9207
10 28	20 30 11.3940	1	1 56 37.049	54 3 23.46	9004	16068 S 4	GL	8463
10 28	20 30 13.3678	10	23 34 14.331	23 44 20.38	9115	3664 S 2	GL	8467
10 28	20 30 19.3941	1	1 54 0.813	53 31 39.22	9004	16068 S 5	GL	9351
10 28	20 30 21.3699	10	23 33 43.201	23 6 28.08	9115	3664 S 3	GL	8468
10 28	20 30 27.3942	1	1 51 27.938	52 59 29.97	9004	16068 S 6	GL	8465
10 28	20 30 29.3716	10	23 33 12.689	22 28 47.32	9115	3664 S 4	GL	9353
10 28	20 30 29.3716	10	23 33 12.689	22 28 47.32	9115	3664 S 4	GL	9353
10 28	20 30 35.3943	1	1 48 57.907	52 26 51.51	9004	16068 S 7	GL	9352
10 28	20 30 37.3729	10	23 32 42.667	21 51 25.89	9115	3664 S 5	GL	8469

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 28	20 30 43.3942	1	1 46 31.539	51 53 51.23	4	9004	16068 S 8	GL	8466
10 28	20 30 45.3749	10	23 32 13.190	21 14 22.12	4	9115	3664 S 6	GL	8470
10 28	23 24 3.4794	1	21 23 19.843	12 31 3.90	4	9004	16078 S 3	LM	7390
10 28	23 24 11.2597	1	2 19 13.202	35 58 24.95	4	9009	14170 S 5	LM	7397
10 28	23 24 11.4793	1	21 23 36.375	11 59 19.37	4	9004	16078 S 4	LM	789
10 28	23 24 19.2597	1	2 18 11.286	35 34 41.86	4	9009	14170 S 6	LM	7398
10 28	23 24 19.4790	1	21 23 52.576	11 27 42.92	4	9004	16078 S 5	LM	7392
10 28	23 24 27.2599	1	2 17 10.224	35 10 51.82	4	9009	14170 S 7	LM	7399
10 28	23 24 27.4791	1	21 24 8.065	10 56 16.67	4	9004	16078 S 6	LM	7393
10 28	23 24 35.2598	1	2 16 9.668	34 46 49.57	4	9009	14170 S 8	LM	7400
10 28	23 24 35.4790	1	21 24 23.234	10 24 56.96	4	9004	16078 S 7	LM	7394
10 28	23 24 43.2598	1	2 15 9.793	34 22 34.64	4	9009	14170 S 9	LM	7401
10 28	23 24 51.2599	1	2 14 10.645	33 58 14.48	4	9009	14170 S10	LM	7402
10 28	23 24 51.4790	1	21 24 52.194	9 22 47.05	4	9004	16078 S 9	LM	7395
10 28	23 24 59.2598	1	2 13 12.197	33 33 42.11	4	9009	14170 S11	LM	7403
10 28	23 24 59.4791	1	21 25 5.937	8 51 58.12	4	9004	16078 S10	LM	7396
10 28	23 26 19.4779	1	21 27 2.162	3 52 28.02	4	9004	16079 S 4	GL	7763
10 28	23 26 27.4778	1	21 27 11.799	3 23 20.73	4	9004	16079 S 5	GL	7764
10 28	23 26 43.2618	1	2 1 28.199	28 0 8.16	4	9009	14171 S 2	GL	7769
10 28	23 26 43.4775	1	21 27 29.824	2 25 45.72	4	9004	16079 S 7	GL	7765
10 28	23 26 51.2619	1	2 0 38.200	27 33 25.55	4	9009	14171 S 3	GL	7770
10 28	23 26 51.4776	1	21 27 38.180	1 57 10.92	4	9004	16079 S 8	GL	7766
10 28	23 26 59.2620	1	1 59 48.607	27 6 29.61	4	9009	14171 S 4	GL	7771
10 28	23 26 59.4775	1	21 27 46.398	1 28 45.17	4	9004	16079 S 9	GL	7767
10 28	23 27 7.2621	1	1 58 59.736	26 39 29.71	4	9009	14171 S 5	GL	7772
10 28	23 27 15.2619	1	1 58 11.529	26 12 16.97	4	9009	14171 S 6	GL	7773
10 28	23 27 15.4774	1	21 28 1.619	0 32 24.31	4	9004	16079 S11	GL	7768
10 28	23 27 23.2619	1	1 57 23.730	25 44 58.16	4	9009	14171 S 7	GL	7774
10 29	2 19 7.0791	1	0 51 41.798	-16 57 29.68	4	9001	18323 S 4	KV	327
10 29	2 19 7.2399	1	21 53 46.186	5 35 18.80	4	9009	14182 S 4	KV	8601
10 29	2 19 15.0791	1	0 51 15.659	-17 24 54.01	4	9001	18323 S 5	KV	8595
10 29	2 19 15.2393	1	21 53 30.726	4 54 19.55	4	9009	14182 S 5	KV	8602
10 29	2 19 23.0790	1	0 50 49.944	-17 52 10.92	4	9001	18323 S 6	KV	8596
10 29	2 19 23.2397	1	21 53 15.187	4 13 31.21	4	9009	14182 S 6	KV	8603
10 29	2 19 31.0794	1	0 50 24.347	-18 19 24.83	4	9001	18323 S 7	KV	8597
10 29	2 19 31.2393	1	21 52 59.310	3 32 47.95	4	9009	14182 S 7	KV	8604
10 29	2 19 39.0791	1	0 49 58.990	-18 46 28.62	4	9001	18323 S 8	KV	8598
10 29	2 19 47.0791	1	0 49 34.002	-19 13 27.94	4	9001	18323 S 9	KV	328
10 29	2 19 47.2395	1	21 52 27.331	2 11 51.93	4	9009	14182 S 9	KV	8605
10 29	2 19 55.0791	1	0 49 9.198	-19 40 20.26	4	9001	18323 S10	KV	329
10 29	2 19 55.2393	1	21 52 11.012	1 31 39.69	4	9009	14182 S10	KV	8606
10 29	2 20 3.2396	1	21 51 54.460	0 51 33.87	4	9009	14182 S11	KV	8607
10 29	18 36 53.5089	10	1 5 30.692	26 38 5.24	4	9115	3703 S 2	VP	9624
10 29	18 36 59.3960	1	3 3 4.826	38 57 17.11	4	9004	16090 S 3	VP	7685
10 29	18 36 59.3964	1	19 55 21.958	44 53 57.60	4	9006	14501 S 4	VP	7692

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 29	18 36 59.3981	1	20 28 45.582	66 53 47.91	9008	20377 S 2	VP	9614
10 29	18 37 1.5100	10	1 4 16.100	26 5 32.45	9115	3703 S 3	LM	9621
10 29	18 37 7.3959	1	3 1 24.568	38 37 10.84	9004	16090 S 4	VP	7686
10 29	18 37 7.3964	1	19 56 46.993	44 29 21.55	9006	14501 S 5	VP	7693
10 29	18 37 7.3980	1	20 31 19.903	66 21 52.62	9008	20377 S 3	VP	9615
10 29	18 37 9.5118	10	1 3 2.522	25 33 3.66	9115	3703 S 4	LM	9622
10 29	18 37 15.3962	1	2 59 45.736	38 16 52.54	9004	16090 S 5	VP	7687
10 29	18 37 15.3964	1	19 58 10.069	44 4 38.78	9006	14501 S 6	VP	7694
10 29	18 37 15.3980	1	20 33 47.731	65 49 41.49	9008	20377 S 4	VP	9616
10 29	18 37 17.5132	10	1 1 50.682	25 0 44.88	9115	3703 S 5	LM	9623
10 29	18 37 23.3961	1	2 58 8.018	37 56 23.72	9004	16090 S 6	VP	7688
10 29	18 37 23.3964	1	19 59 31.897	43 39 50.40	9006	14501 S 7	VP	7695
10 29	18 37 23.3981	1	20 36 9.384	65 17 11.24	9008	20377 S 5	VP	9617
10 29	18 37 31.3962	1	2 56 31.320	37 35 44.27	9004	16090 S 7	VP	7689
10 29	18 37 31.3965	1	20 0 52.333	43 14 52.63	9006	14501 S 8	VP	7696
10 29	18 37 31.3981	1	20 38 25.149	64 44 15.40	9008	20377 S 6	VP	9618
10 29	18 37 33.5154	10	0 59 30.060	23 56 15.93	9115	3703 S 7	LM	9625
10 29	18 37 39.3962	1	2 54 55.231	37 14 53.31	9004	16090 S 8	VP	7690
10 29	18 37 39.3967	1	20 2 10.848	42 49 53.89	9006	14501 S 9	VP	7697
10 29	18 37 39.3983	1	20 40 35.783	64 11 3.20	9008	20377 S 7	VP	9619
10 29	18 37 47.3963	1	2 53 20.390	36 53 54.70	9004	16090 S 9	VP	7691
10 29	18 37 47.3968	1	20 3 28.165	42 24 45.16	9006	14501 S 10	VP	7698
10 29	18 37 47.3983	1	20 42 41.407	63 37 30.49	9008	20377 S 8	VP	9620
10 29	18 39 9.5476	10	0 47 0.954	17 38 17.31	9115	3704 S 1	KV	9657
10 29	18 39 17.5493	10	0 46 5.135	17 7 35.55	9115	3704 S 2	KV	9658
10 29	18 39 23.4088	1	21 2 25.600	56 33 56.58	9008	20378 S 3	KV	9652
10 29	18 39 25.5505	10	0 45 9.817	16 36 59.84	9115	3704 S 3	KV	9659
10 29	18 39 31.4089	1	21 3 42.678	55 57 6.61	9008	20378 S 4	KV	9653
10 29	18 39 33.5520	10	0 44 15.788	16 6 36.38	9115	3704 S 4	KV	9660
10 29	18 39 39.4090	1	21 4 57.095	55 20 1.39	9008	20378 S 5	KV	9654
10 29	18 39 47.4091	1	21 6 9.074	54 42 46.70	9008	20378 S 6	KV	9655
10 29	18 39 49.5568	10	0 42 29.832	15 6 2.40	9115	3704 S 6	KV	790
10 29	18 39 55.4095	1	21 7 18.910	54 5 22.54	9008	20378 S 7	KV	9656
10 29	18 42 37.5795	10	0 26 47.764	5 5 38.61	9115	3705 S 5	VP	8551
10 29	18 42 43.4026	1	2 5 33.661	22 15 52.18	9004	16092 S 2	VP	8538
10 29	18 42 43.4131	1	21 24 32.007	40 26 14.99	9008	20379 S 2	VP	8544
10 29	18 42 45.5815	10	0 26 9.498	4 38 37.89	9115	3705 S 6	VP	8552
10 29	18 42 51.4021	1	2 4 31.452	21 50 8.14	9004	16092 S 3	VP	8539
10 29	18 42 51.4133	1	21 25 5.751	39 46 12.35	9008	20379 S 3	VP	8545
10 29	18 42 53.5826	10	0 25 31.569	4 11 48.74	9115	3705 S 7	VP	8553
10 29	18 42 59.4014	1	2 3 30.003	21 24 20.07	9004	16092 S 4	VP	8540
10 29	18 42 59.4133	1	21 25 38.490	39 6 9.71	9008	20379 S 4	VP	8546
10 29	18 43 1.5842	10	0 24 54.375	3 45 9.24	9115	3705 S 8	VP	8554
10 29	18 43 7.4008	1	2 2 29.377	20 58 32.91	9004	16092 S 5	VP	9345
10 29	18 43 7.4134	1	21 26 10.465	38 26 0.51	9008	20379 S 5	VP	8547

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 29	18 43 15.4002	1	2 1 28.975	20 32 40.58	4	9004	16092 S 6	VP	8541
10 29	18 43 15.4137	1	21 26 41.209	37 45 55.34	4	9008	20379 S 6	VP	8548
10 29	18 43 23.3997	1	2 0 30.135	20 6 43.21	4	9004	16092 S 7	VP	8542
10 29	18 43 23.4138	1	21 27 10.855	37 5 46.68	4	9008	20379 S 7	VP	8549
10 29	18 43 31.3988	1	1 59 31.140	19 40 44.13	4	9004	16092 S 8	VP	8543
10 29	18 43 31.4141	1	21 27 39.998	36 25 37.31	4	9008	20379 S 8	VP	8550
10 29	18 46 19.3970	1	1 41 20.752	10 26 12.97	4	9004	16093 S 3	VP	7459
10 29	18 46 19.4213	1	21 34 51.759	22 29 34.40	4	9008	20380 S 3	VP	7466
10 29	18 46 27.3972	1	1 40 35.106	9 59 39.53	4	9004	16093 S 4	VP	7460
10 29	18 46 27.4214	1	21 35 5.472	21 50 34.47	4	9008	20380 S 4	VP	7467
10 29	18 46 35.3971	1	1 39 49.701	9 33 2.80	4	9004	16093 S 5	VP	7461
10 29	18 46 35.4216	1	21 35 18.559	21 11 41.24	4	9008	20380 S 5	VP	7468
10 29	18 46 43.3971	1	1 39 5.008	9 6 31.55	4	9004	16093 S 6	VP	7462
10 29	18 46 43.4218	1	21 35 31.329	20 32 57.32	4	9008	20380 S 6	VP	7469
10 29	18 46 51.3971	1	1 38 20.813	8 39 55.06	4	9004	16093 S 7	VP	7463
10 29	18 46 51.4221	1	21 35 43.648	19 54 23.04	4	9008	20380 S 7	VP	7470
10 29	18 46 59.3970	1	1 37 36.778	8 13 22.75	4	9004	16093 S 8	VP	7464
10 29	18 46 59.4221	1	21 35 55.278	19 15 52.61	4	9008	20380 S 8	VP	7471
10 29	18 47 7.3970	1	1 36 53.898	7 46 46.46	4	9004	16093 S 9	VP	7465
10 29	18 47 7.4224	1	21 36 6.406	18 37 33.29	4	9008	20380 S 9	VP	7472
10 29	18 49 55.3978	1	1 23 27.449	- 1 25 42.44	4	9004	16094 S 3	PK	7789
10 29	18 49 55.4264	1	21 38 28.291	5 48 57.69	4	9008	20381 S 4	YK	8680
10 29	18 50 3.3977	1	1 22 53.529	- 1 51 36.81	4	9004	16094 S 4	PK	7790
10 29	18 50 3.4263	1	21 38 31.188	5 14 28.30	4	9008	20381 S 5	YK	8681
10 29	18 50 11.3979	1	1 22 20.005	- 2 17 29.46	4	9004	16094 S 5	PK	7791
10 29	18 50 19.3980	1	1 21 46.730	- 2 43 19.41	4	9004	16094 S 6	PK	7792
10 29	18 50 19.4265	1	21 38 35.725	4 5 35.33	4	9008	20381 S 7	YK	8682
10 29	18 50 27.3977	1	1 21 14.146	- 3 9 8.18	4	9004	16094 S 7	PK	7793
10 29	18 50 27.4266	1	21 38 37.633	3 31 28.07	4	9008	20381 S 8	YK	8683
10 29	18 50 35.3977	1	1 20 41.620	- 3 34 49.40	4	9004	16094 S 8	PK	7794
10 29	18 50 35.4268	1	21 38 39.075	2 57 37.71	4	9008	20381 S 9	YK	7798
10 29	18 50 43.3975	1	1 20 9.675	- 4 0 31.12	4	9004	16094 S 9	PK	7795
10 29	18 50 43.4269	1	21 38 40.371	2 23 56.69	4	9008	20381 S10	YK	8684
10 29	18 55 31.3504	1	23 14 37.431	45 59 59.38	4	9002	21212 S10	VP	7997
10 29	18 55 31.4280	1	21 36 28.891	-15 38 9.02	4	9008	20382 S 3	VP	8004
10 29	18 55 39.3507	1	23 14 10.197	45 37 20.99	4	9002	21212 S11	VP	7998
10 29	18 55 39.4281	1	21 36 20.647	-16 4 39.87	4	9008	20382 S 4	VP	8035
10 29	18 55 47.3508	1	23 13 43.222	45 14 29.21	4	9002	21212 S12	VP	8685
10 29	18 55 47.4280	1	21 36 12.400	-16 31 4.37	4	9008	20382 S 5	VP	8006
10 29	18 55 55.3508	1	23 13 16.166	44 51 23.01	4	9002	21212 S13	VP	8000
10 29	18 55 55.4282	1	21 36 3.679	-16 57 23.16	4	9008	20382 S 6	VP	8037
10 29	18 56 3.3511	1	23 12 48.938	44 28 14.64	4	9002	21212 S14	VP	8031
10 29	18 56 3.4283	1	21 35 54.825	-17 23 21.96	4	9008	20382 S 7	VP	8008
10 29	18 56 11.3510	1	23 12 22.046	44 4 58.90	4	9002	21212 S15	VP	8686
10 29	18 56 11.4283	1	21 35 46.113	-17 49 15.78	4	9008	20382 S 8	VP	8039

Satellite 1961 Alpha Delta 1

29 October 1964

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 29	18 56 19.3512	1	23 11 55.404	43 41 30.70	9002	21212 S16	VP	8033
10 29	18 56 19.4285	1	21 35 36.655	-18 15 2.05	9008	20382 S 9	VP	8010
10 29	21 25 31.0080	10	22 49 23.037	17 22 28.63	9115	3718 S 2	VD	8145

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 29	21 25 35.0065	10	22 49 18.147	16 48 34.77	9115	3718 S 3	VD	8146
10 29	21 25 39.3979	1	23 43 3.709	54 13 44.91	9004	16102 S 7	VD	8141
10 29	21 25 47.0078	10	22 49 13.328	16 14 54.57	9115	3718 S 4	VD	8147
10 29	21 25 47.3980	1	23 41 55.777	53 29 20.29	9004	16102 S 8	VD	8142
10 29	21 25 55.0096	10	22 49 8.687	15 41 31.36	9115	3718 S 5	VD	8148
10 29	21 25 55.3978	1	23 40 49.900	52 44 42.16	9004	16102 S 9	VD	8143
10 29	21 26 3.0107	10	22 49 3.738	15 8 25.36	9115	3718 S 6	VD	8149
10 29	21 26 3.3981	1	23 39 46.430	51 59 53.50	9004	16102 S 10	VD	8144
10 30	0 15 47.3838	1	20 59 53.116	17 56 15.63	9004	16109 S 3	VD	6862
10 30	0 15 47.4236	1	2 11 6.495	53 32 45.66	9009	14198 S 4	VD	6869
10 30	0 15 55.3836	1	21 0 21.126	17 29 11.20	9004	16109 S 4	VD	6863
10 30	0 15 55.4237	1	2 9 19.692	53 9 30.05	9009	14198 S 5	VD	6870
10 30	0 16 3.3836	1	21 0 48.831	17 2 8.60	9004	16109 S 5	VD	6864
10 30	0 16 3.4237	1	2 7 34.558	52 45 56.66	9009	14198 S 6	VD	6871
10 30	0 16 11.3837	1	21 1 15.969	16 35 12.77	9004	16109 S 6	VD	6865
10 30	0 16 11.4239	1	2 5 50.641	52 22 10.93	9009	14198 S 7	VD	6872
10 30	0 16 19.3840	1	21 1 42.260	16 8 23.15	9004	16109 S 7	VD	6866
10 30	0 16 19.4241	1	2 4 8.595	51 58 3.72	9009	14198 S 8	VD	873
10 30	0 16 27.3839	1	21 2 8.398	15 41 38.03	9004	16109 S 8	VD	867
10 30	0 16 27.4243	1	2 2 27.682	51 33 40.32	9009	14198 S 9	VD	6874
10 30	0 16 35.4242	1	2 0 48.141	51 9 1.82	9009	14198 S 10	VD	6875
10 30	0 16 43.3842	1	21 2 58.425	14 48 24.24	9004	16109 S 10	VD	6868
10 30	0 35 31.4074	1	0 22 3.119	5 56 48.97	9007	15694 S 7	VD	7441
10 30	0 35 31.4297	1	0 10 54.883	-33 45 30.20	9009	14202 S 7	VD	7446
10 30	0 35 31.6487	1	23 38 8.396	23 9 13.94	9011	16664 S 7	VD	7452
10 30	0 35 39.4056	1	0 21 43.654	5 18 6.40	9007	15694 S 8	VD	7442
10 30	0 35 39.4296	1	0 10 32.336	-34 18 9.34	9009	14202 S 8	VD	7447
10 30	0 35 39.6488	1	23 37 46.531	22 40 32.13	9011	16664 S 8	VD	7453
10 30	0 35 47.4071	1	0 21 24.598	4 39 10.64	9007	15694 S 9	VD	7443
10 30	0 35 47.4295	1	0 10 9.958	-34 50 39.61	9009	14202 S 9	VD	7448
10 30	0 35 47.6488	1	23 37 24.636	22 11 38.43	9011	16664 S 9	VD	7454
10 30	0 35 55.4259	1	0 21 5.396	4 0 5.05	9007	15694 S 10	VD	7444
10 30	0 35 55.4296	1	0 9 47.406	-35 22 51.40	9009	14202 S 10	VD	7449
10 30	0 35 55.6487	1	23 37 2.796	21 42 32.85	9011	16664 S 10	VD	7455
10 30	0 36 3.4296	1	0 9 24.950	-35 54 50.81	9009	14202 S 11	VD	7450
10 30	0 36 3.6487	1	23 36 41.028	21 13 11.47	9011	16664 S 11	VD	7456
10 30	0 36 11.4066	1	0 20 27.341	2 41 8.95	9007	15694 S 12	VD	7445
10 30	0 36 11.4295	1	0 9 3.055	-36 26 44.30	9009	14202 S 12	VD	7451
10 30	0 36 11.6487	1	23 36 19.193	20 43 39.10	9011	16664 S 12	VD	7457
10 30	0 36 19.6486	1	23 35 57.418	20 13 51.43	9011	16664 S 13	VD	7458
10 30	19 25 23.3875	1	17 36 11.097	68 16 27.32	9008	20408 S 4	VD	7717
10 30	19 25 23.4859	1	5 4 41.895	58 28 26.96	9004	16124 S 5	VD	8672
10 30	19 25 31.3876	1	17 40 52.293	68 6 10.02	9008	20408 S 5	VD	7718
10 30	19 25 39.3875	1	17 45 29.945	67 55 16.81	9008	20408 S 6	VD	7719
10 30	19 25 39.4866	1	4 58 8.727	58 16 13.17	9004	16124 S 7	VD	7713

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 30	19 25 47.3876	1	17 50 3.672	67 43 46.70	9008	20408 S 7	VD	7720
10 30	19 25 47.4859	1	4 54 51.802	58 9 30.32	9004	16124 S 8	VD	7714
10 30	19 25 53.3876	1	17 54 34.569	67 31 42.44	9008	20408 S 8	VD	7721
10 30	19 25 55.4859	1	4 51 35.801	58 2 18.98	9004	16124 S 9	VD	7715
10 30	19 26 3.4858	1	4 48 20.275	57 54 46.32	9004	16124 S10	VD	7716
10 30	19 34 27.4852	1	2 10 2.892	37 0 19.93	9004	16127 S 2	BN	7207
10 30	19 34 35.3972	1	20 32 56.609	40 42 57.69	9008	20411 S 3	YK	7214
10 30	19 34 35.4853	1	2 8 24.855	36 30 36.75	9004	16127 S 3	BN	7208
10 30	19 34 43.3972	1	20 33 50.547	40 11 32.96	9008	20411 S 4	YK	7215
10 30	19 34 43.4854	1	2 6 47.852	36 0 42.97	9004	16127 S 4	BN	7209
10 30	19 34 51.3972	1	20 34 58.568	39 40 2.17	9008	20411 S 5	YK	7216
10 30	19 34 51.4853	1	2 5 12.343	35 30 36.01	9004	16127 S 5	YK	7210
10 30	19 34 59.3974	1	20 35 57.356	39 8 27.73	9008	20411 S 6	YK	7217
10 30	19 34 59.4855	1	2 3 38.212	35 0 20.76	9004	16127 S 6	YK	7211
10 30	19 35 7.3975	1	20 36 54.993	38 36 51.57	9008	20411 S 7	YK	7218
10 30	19 35 7.4852	1	2 2 5.379	34 29 52.98	9004	16127 S 7	YK	7212
10 30	19 35 15.3976	1	20 37 51.341	38 5 13.31	9008	20411 S 8	YK	7219
10 30	19 35 15.4852	1	2 0 33.894	33 59 13.55	9004	16127 S 8	YK	7213
10 30	19 35 23.3977	1	20 38 46.165	37 33 29.79	9008	20411 S 9	YK	7220
10 30	19 37 47.4874	1	1 35 19.890	23 50 48.68	9004	16128 S 2	DM	7180
10 30	19 37 55.4057	1	20 52 45.817	27 28 45.26	9008	20412 S 3	DM	7186
10 30	19 37 55.4873	1	1 34 10.607	23 17 47.92	9004	16128 S 3	DM	7181
10 30	19 38 3.4056	1	20 53 21.111	26 57 2.72	9008	20412 S 4	DM	7187
10 30	19 38 3.4876	1	1 33 2.422	22 44 44.22	9004	16128 S 4	DM	7967
10 30	19 38 11.4058	1	20 53 55.069	26 25 30.41	9008	20412 S 5	DM	7188
10 30	19 38 11.4876	1	1 31 55.067	22 11 37.23	9004	16128 S 5	DM	7182
10 30	19 38 19.4057	1	20 54 28.549	25 53 51.81	9008	20412 S 6	DM	7189
10 30	19 38 19.4876	1	1 30 48.708	21 38 24.42	9004	16128 S 6	DM	7183
10 30	19 38 27.4058	1	20 55 1.240	25 22 19.60	9008	20412 S 7	DM	7190
10 30	19 38 27.4876	1	1 29 43.141	21 5 12.05	9004	16128 S 7	DM	7184
10 30	19 38 35.4061	1	20 55 33.270	24 50 48.43	9008	20412 S 8	DM	7191
10 30	19 38 35.4877	1	1 28 38.666	20 31 55.70	9004	16128 S 8	DM	7185
10 30	19 38 43.4061	1	20 56 4.402	24 19 20.79	9008	20412 S 9	DM	7968
10 31	17 36 59.3871	1	23 56 18.535	84 48 59.31	9008	20433 S 3	DM	7756
10 31	17 36 59.3910	1	19 16 5.106	61 9 55.72	9006	14554 S 6	DM	7751
10 31	17 37 7.3873	1	23 49 57.978	84 19 13.59	9008	20433 S 7	DM	7757
10 31	17 37 7.3916	1	19 18 56.936	60 46 58.91	9006	14554 S 4	DM	7752
10 31	17 37 15.3873	1	23 44 34.711	83 49 1.99	9008	20433 S 8	DM	7758
10 31	17 37 15.3920	1	19 21 44.537	60 23 39.78	9006	14554 S 5	DM	7753
10 31	17 37 23.3875	1	23 39 56.900	83 18 28.64	9008	20433 S 9	DM	7759
10 31	17 37 23.3922	1	19 24 28.533	59 59 56.63	9006	14554 S 6	DM	7754
10 31	17 37 31.3875	1	23 35 57.243	82 47 29.65	9008	20433 S10	DM	7760
10 31	17 37 31.3925	1	19 27 8.711	59 35 55.94	9006	14554 S 7	DM	8670
10 31	17 37 39.3880	1	23 32 26.207	82 16 8.31	9008	20433 S11	DM	7761
10 31	17 37 39.3927	1	19 29 44.749	59 11 33.04	9006	14554 S 8	DM	8671

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 31	17 37 47.3880	1	23 29 19.074	81 44 31.38	9008	20433 S12	DM	7762
10 31	17 37 47.3930	1	19 32 17.251	58 46 53.80	9006	14554 S 9	DM	7755
10 31	17 40 35.3891	1	23 0 56.559	69 34 10.98	9008	20434 S 7	DM	7665
10 31	17 40 43.3892	1	23 0 17.666	68 56 23.48	9008	20434 S 8	DM	7666
10 31	17 40 43.3971	1	20 15 4.900	48 39 24.10	9006	14555 S 2	DM	7671
10 31	17 40 51.3895	1	22 59 40.096	68 18 22.44	9008	20434 S 9	DM	7667
10 31	17 40 51.3974	1	20 16 32.729	48 9 32.57	9006	14555 S 3	DM	7672
10 31	17 40 59.3896	1	22 59 4.768	67 40 5.93	9008	20434 S10	DM	7668
10 31	17 40 59.3975	1	20 17 58.179	47 39 32.26	9006	14555 S 4	DM	7673
10 31	17 41 7.3901	1	22 58 30.044	67 1 28.77	9008	20434 S11	DM	7669
10 31	17 41 7.3978	1	20 19 21.610	47 9 18.83	9006	14555 S 5	DM	7674
10 31	17 41 15.3981	1	20 20 43.036	46 39 0.96	9006	14555 S 6	DM	7675
10 31	17 41 23.3907	1	22 57 25.012	65 43 35.94	9008	20434 S13	DM	7670
10 31	17 41 23.3982	1	20 22 2.486	46 8 36.35	9006	14555 S 7	DM	7676
10 31	17 41 31.3984	1	20 23 20.630	45 38 2.89	9006	14555 S 8	DM	7677
10 31	17 43 55.3995	1	20 42 11.900	36 13 2.29	9006	14556 S 2	PG	7806
10 31	17 44 3.3951	1	22 49 18.752	51 50 52.52	9008	20435 S 7	PG	7799
10 31	17 44 3.3996	1	20 43 2.107	35 41 6.75	9006	14556 S 3	PG	7807
10 31	17 44 11.3952	1	22 48 59.331	51 6 59.55	9008	20435 S 8	PG	7800
10 31	17 44 11.3997	1	20 43 51.264	35 9 15.73	9006	14556 S 4	PG	7808
10 31	17 44 19.3956	1	22 48 40.431	50 22 57.50	9008	20435 S 9	PG	7801
10 31	17 44 19.3996	1	20 44 39.126	34 37 16.26	9006	14556 S 5	PG	7809
10 31	17 44 27.3960	1	22 48 21.935	49 38 40.13	9008	20435 S10	PG	7802
10 31	17 44 27.4000	1	20 45 26.037	34 5 19.68	9006	14556 S 6	PG	7810
10 31	17 44 35.3961	1	22 48 3.017	48 54 16.18	9008	20435 S11	PG	7803
10 31	17 44 35.4002	1	20 46 11.830	33 33 19.35	9006	14556 S 7	PG	7811
10 31	17 44 43.3367	1	22 47 44.880	48 9 43.68	9008	20435 S12	PG	7804
10 31	17 44 43.4002	1	20 46 56.824	33 1 21.05	9006	14556 S 8	PG	7812
10 31	17 44 51.3969	1	22 47 26.865	47 24 58.07	9008	20435 S13	PG	7805
10 31	20 23 55.3975	1	19 45 17.962	47 23 39.29	9008	20442 S 6	PG	7820
10 31	20 23 55.3992	1	2 54 45.529	63 51 59.25	9004	16160 S 4	SJ	7813
10 31	20 24 3.3973	1	19 46 54.609	47 0 26.92	9008	20442 S 7	PG	7821
10 31	20 24 3.3994	1	2 50 40.866	63 29 13.18	9004	16160 S 5	SJ	7814
10 31	20 24 11.3974	1	19 48 29.260	46 37 6.54	9008	20442 S 8	PG	7822
10 31	20 24 11.3994	1	2 46 41.439	63 5 50.06	9004	16160 S 6	SJ	7815
10 31	20 24 19.3976	1	19 50 2.371	46 13 39.08	9008	20442 S 9	PG	7823
10 31	20 24 19.3994	1	2 42 46.841	62 41 50.43	9004	16160 S 7	SJ	7816
10 31	20 24 27.3979	1	19 51 33.495	45 50 6.61	9008	20442 S10	PG	7824
10 31	20 24 27.3995	1	2 38 57.457	62 17 14.26	9004	16160 S 8	SJ	7817
10 31	20 24 35.3979	1	19 53 3.436	45 26 25.04	9008	20442 S11	PG	7825
10 31	20 24 35.3996	1	2 35 13.665	61 52 2.75	9004	16160 S 9	SJ	7818
10 31	20 24 43.3980	1	19 54 31.356	45 2 37.24	9008	20442 S12	PG	7826
10 31	20 24 43.3995	1	2 31 34.234	61 26 19.11	9004	16160 S10	SJ	7819
10 31	20 27 15.3962	1	1 36 13.578	51 42 31.97	9004	16161 S 3	YK	7547
10 31	20 27 22.3962	1	1 33 56.417	51 7 33.21	9004	16161 S 4	YK	7548

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 31	20 27 23.3966	1	20 18 50.328	36 47 13.88	9008	20443 S 6	SJ	7553
10 31	20 27 31.3963	1	1 31 42.540	50 32 15.87	9004	16161 S 5	YK	7549
10 31	20 27 31.3965	1	20 19 50.103	36 21 53.19	9008	20443 S 7	SJ	7554
10 31	20 27 39.3964	1	1 29 31.560	49 56 33.79	9004	16161 S 6	YK	7982
10 31	20 27 39.3967	1	20 20 49.093	35 56 24.48	9008	20443 S 8	SJ	7555
10 31	20 27 47.3967	1	1 27 23.596	49 20 33.77	9004	16161 S 7	YK	7550
10 31	20 27 47.3969	1	20 21 46.420	35 30 52.84	9008	20443 S 9	SJ	7556
10 31	20 27 55.3965	1	1 25 18.328	48 44 13.35	9004	16161 S 8	YK	7551
10 31	20 27 55.3967	1	20 22 43.305	35 5 21.15	9008	20443 S10	SJ	7557
10 31	20 28 3.3965	1	1 23 16.094	48 7 34.37	9004	16161 S 9	YK	7552
10 31	20 28 3.3971	1	20 23 38.767	34 39 52.09	9008	20443 S11	SJ	7558
10 31	20 30 35.3803	1	0 51 48.165	35 43 36.91	9004	16162 S 2	PG	6833
10 31	20 30 35.4045	1	20 38 21.915	26 32 47.47	9008	20444 S 4	PG	6829
10 31	20 30 43.3902	1	0 50 27.407	35 2 38.99	9004	16162 S 3	PG	6834
10 31	20 30 43.4043	1	20 39 0.440	26 7 19.15	9008	20444 S 5	PG	6830
10 31	20 30 51.3802	1	0 49 8.424	34 21 25.58	9004	16162 S 4	PG	6835
10 31	20 30 51.4044	1	20 39 38.255	25 41 42.54	9008	20444 S 6	PG	6831
10 31	20 30 59.3802	1	0 47 50.754	33 47 14.46	9004	16162 S 5	PG	6836
10 31	20 30 59.4043	1	20 40 15.531	25 16 16.19	9008	20444 S 7	PG	6832
10 31	20 31 7.3804	1	0 46 34.562	32 58 57.68	9004	16162 S 6	PG	6837
11 2	0 25 23.3358	1	0 56 32.252	-19 21 41.84	9010	15484 S 2	LR	764
11 2	0 25 23.4271	1	0 27 25.173	-4 6 50.55	9009	14269 S 3	SW	757
11 2	0 25 31.3361	1	0 56 8.164	-19 50 23.05	9010	15484 S 3	FI	765
11 2	0 25 31.4270	1	0 26 53.050	-4 47 43.14	9009	14269 S 4	SW	758
11 2	0 25 36.3361	1	0 55 44.686	-20 18 48.00	9010	15484 S 4	FI	766
11 2	0 25 47.3362	1	0 55 21.389	-20 47 12.00	9010	15484 S 5	FI	767
11 2	0 25 47.4274	1	0 25 49.266	-6 9 17.56	9009	14269 S 6	SW	759
11 2	0 25 55.3364	1	0 54 58.282	-21 15 24.95	9010	15484 S 6	FI	1747
11 2	0 25 55.4273	1	0 25 17.930	-6 49 59.98	9009	14269 S 7	SW	760
11 2	0 26 3.3364	1	0 54 35.542	-21 43 34.49	9010	15484 S 7	FI	768
11 2	0 26 3.4275	1	0 24 46.634	-7 30 34.29	9009	14269 S 8	LR	761
11 2	0 26 11.3365	1	0 54 13.048	-22 11 32.72	9010	15484 S 8	FI	769
11 2	0 26 11.4273	1	0 24 15.543	-8 11 3.08	9009	14269 S 9	LR	762
11 2	0 26 19.4275	1	0 23 45.015	-8 51 23.30	9009	14269 S10	LR	763
11 2	0 28 51.3389	1	0 47 33.254	-31 6 46.72	9010	15485 S 2	FI	919
11 2	0 28 55.3393	1	0 47 15.615	-31 32 20.55	9010	15485 S 3	FI	920
11 2	0 28 55.4238	1	0 14 14.824	-21 48 14.58	9009	14270 S 3	KA	912
11 2	0 29 7.4238	1	0 13 48.247	-22 25 16.05	9009	14270 S 4	KA	913
11 2	0 29 15.3394	1	0 46 40.921	-32 23 1.89	9010	15485 S 5	FI	3071
11 2	0 29 15.4239	1	0 13 21.682	-23 2 10.13	9009	14270 S 5	LR	914
11 2	0 29 23.4239	1	0 12 55.402	-23 38 51.45	9009	14270 S 6	LR	915
11 2	0 29 31.3395	1	0 46 7.173	-33 13 11.00	9010	15485 S 7	FI	921
11 2	0 29 31.4239	1	0 12 29.311	-24 15 17.38	9009	14270 S 7	LR	916
11 2	0 29 39.3395	1	0 45 50.765	-33 38 9.52	9010	15485 S 8	FI	922
11 2	0 29 39.4238	1	0 12 3.239	-24 51 35.97	9009	14270 S 8	FI	917

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 11 2	C 29 47.3394	1	C 0 45 34.462	-34 2 56.52	4	9010	15485 S 9	FI	923
11 2	C 29 47.4237	1	C 0 11 37.260	-25 27 40.65	4	9009	14270 S 9	FI	918
11 2	C 29 55.3393	1	C 0 45 18.316	-34 27 38.56	4	9010	15485 S10	FI	924
11 2	C 34 15.2580	1	C 23 27 6.260	13 34 24.67	4	9011	16710 S 2	DK	955
11 2	C 34 15.4268	1	C 23 57 54.681	-43 51 33.31	4	9009	14271 S 1	WI	949
11 2	C 34 21.2581	1	C 23 26 42.588	13 1 8.89	4	9011	16710 S 3	DK	2568
11 2	C 34 27.4267	1	C 23 57 31.406	-44 20 27.32	4	9009	14271 S 2	WI	950
11 2	C 34 35.2578	1	C 23 26 19.156	12 27 40.64	4	9011	16710 S 4	HP	956
11 2	C 34 35.4267	1	C 23 57 8.184	-44 49 14.35	4	9009	14271 S 3	WI	951
11 2	C 34 43.2579	1	C 23 25 55.690	11 54 1.27	4	9011	16710 S 5	HP	957
11 2	C 34 43.4266	1	C 23 56 44.940	-45 17 45.21	4	9009	14271 S 4	WI	952
11 2	C 34 51.2579	1	C 23 25 32.144	11 20 4.38	4	9011	16710 S 6	HP	958
11 2	C 34 51.4265	1	C 23 56 21.666	-45 46 7.56	4	9009	14271 S 5	WI	953
11 2	C 34 59.4266	1	C 23 55 58.714	-46 14 15.39	4	9009	14271 S 6	WI	954
11 2	C 35 7.2578	1	C 23 24 44.605	10 11 23.32	4	9011	16710 S 8	HP	959
11 2	C 35 7.4265	1	C 23 55 35.384	-46 42 12.53	4	9009	14271 S 7	WI	1751
11 2	C 35 15.2580	1	C 23 24 23.779	9 36 40.71	4	9011	16710 S 9	HP	960
11 2	C 34 55.4155	1	C 20 9 52.586	60 30 15.39	4	9009	14273 S 1	JV	8449
11 2	C 35 7.4074	1	C 21 48 33.458	57 31 0.95	4	9010	15490 S 1	JV	8456
11 2	C 35 7.4157	1	C 20 11 26.819	60 5 8.09	4	9009	14273 S 2	JV	8450
11 2	C 35 15.4072	1	C 21 49 14.125	56 51 46.79	4	9010	15490 S 2	JV	8457
11 2	C 35 15.4156	1	C 20 12 59.810	59 39 39.42	4	9009	14273 S 3	JV	8451
11 2	C 35 23.4074	1	C 21 49 45.091	56 12 18.37	4	9010	15490 S 3	JV	8458
11 2	C 35 31.4158	1	C 20 15 57.297	58 48 16.91	4	9009	14273 S 5	JV	8452
11 2	C 35 35.4079	1	C 21 50 52.688	54 52 46.83	4	9010	15490 S 5	JV	8459
11 2	C 35 35.4160	1	C 20 17 22.454	58 22 18.65	4	9009	14273 S 6	JV	8453
11 2	C 35 47.4079	1	C 21 51 21.629	54 12 44.70	4	9010	15490 S 6	JV	8460
11 2	C 35 47.4157	1	C 20 13 45.618	57 56 5.58	4	9009	14273 S 7	JV	8454
11 2	C 35 55.4080	1	C 21 51 51.655	53 32 29.23	4	9010	15490 S 7	JV	8461
11 2	C 35 55.4161	1	C 20 20 6.581	57 29 39.49	4	9009	14273 S 8	JV	8455
11 2	C 36 2.4084	1	C 21 52 19.840	52 52 4.50	4	9010	15490 S 8	JV	8462
11 2	C 36 43.4130	1	C 21 58 30.011	38 53 53.40	4	9010	15491 S 1	SW	87
11 2	C 36 43.4238	1	C 20 41 36.514	47 35 41.34	4	9009	14274 S 3	AC	80
11 2	C 38 51.4131	1	C 21 59 41.055	38 10 59.71	4	9010	15491 S 2	NG	88
11 2	C 38 51.4205	1	C 20 42 22.171	47 5 42.98	4	9009	14274 S 4	AC	81
11 2	C 38 59.4133	1	C 21 58 51.648	37 28 1.06	4	9010	15491 S 3	NG	89
11 2	C 38 59.4207	1	C 20 43 6.641	46 35 38.50	4	9009	14274 S 5	AC	82
11 2	C 39 7.4225	1	C 20 43 49.672	46 5 25.56	4	9009	14274 S 6	AC	83
11 2	C 39 15.4137	1	C 21 59 11.093	36 1 59.43	4	9010	15491 S 5	NG	90
11 2	C 39 15.4209	1	C 20 44 32.114	45 35 3.00	4	9009	14274 S 7	AC	84
11 2	C 39 23.4139	1	C 21 59 19.877	35 18 54.27	4	9010	15491 S 6	NG	91
11 2	C 39 23.4210	1	C 20 45 13.313	45 4 38.14	4	9009	14274 S 8	SW	85
11 2	C 39 31.4141	1	C 21 59 28.456	34 35 50.93	4	9010	15491 S 7	NG	819
11 2	C 39 31.4210	1	C 20 45 53.214	44 34 2.33	4	9009	14274 S 9	SW	86
11 2	C 1 47.4139	1	C 22 0 47.254	22 27 24.47	4	9010	15492 S 1	JW	8242

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 2	3 1 55.4188	1	22 0 48.564	21 45 11.54	9010	15492 S 2	WC	8243
11 2	3 2 3.4188	1	22 0 49.683	21 3 2.20	9010	15492 S 3	WC	8244
11 2	3 2 3.4205	1	20 55 41.553	34 33 18.33	9009	14275 S 2	JW	8237
11 2	3 2 11.4191	1	22 0 50.407	20 21 3.60	9010	15492 S 4	WC	8245
11 2	3 2 11.4205	1	20 56 4.805	34 0 51.00	9009	14275 S 3	JW	8238
11 2	3 2 19.4192	1	22 0 50.917	19 39 10.77	9010	15492 S 5	WC	8246
11 2	3 2 19.4204	1	20 56 27.489	33 28 21.79	9009	14275 S 4	JW	8239
11 2	3 2 27.4192	1	22 0 51.086	18 57 26.65	9010	15492 S 6	WC	8247
11 2	3 2 27.4204	1	20 56 49.159	32 55 46.82	9009	14275 S 5	JW	8240
11 2	3 2 43.4205	1	20 57 30.962	31 50 32.00	9009	14275 S 7	JW	8241
11 2	19 25 56.5871	10	0 37 16.319	36 10 34.67	9115	3797 S 2	DK	651
11 2	19 26 4.5882	10	0 35 58.654	35 31 4.15	9115	3797 S 3	DK	652
11 2	19 26 7.4844	1	19 38 25.783	56 42 18.68	9008	20459 S 5	WI	647
11 2	19 26 12.5902	10	0 34 42.926	34 51 36.29	9115	3797 S 4	DK	653
11 2	19 26 15.4843	1	19 40 42.074	56 17 3.92	9008	23459 S 6	WI	648
11 2	19 26 20.5921	10	0 33 28.927	34 12 15.71	9115	3797 S 5	DK	654
11 2	19 26 23.4846	1	19 42 55.602	55 51 33.30	9008	20459 S 7	WI	649
11 2	19 26 28.5937	10	0 32 16.497	33 33 0.63	9115	3797 S 6	DK	655
11 2	19 26 31.4846	1	19 45 5.488	55 25 43.16	9008	20459 S 8	WI	1745
11 2	19 26 36.5949	10	0 31 6.055	32 53 57.22	9115	3797 S 7	DK	656
11 2	19 26 44.5968	10	0 29 56.884	32 14 58.40	9115	3797 S 8	DK	657
11 2	19 26 47.4849	1	19 49 16.738	54 33 23.96	9008	20459 S10	WI	650
11 3	9 22 10.6987	1	2 9 10.290	30 4 19.78	9005	11287 S 4	JV	9399
11 3	9 22 11.4015	1	20 22 36.649	42 55 43.71	9012	15815 S 2	TA	9060
11 3	9 22 18.6987	1	2 7 51.057	29 35 33.41	9005	11287 S 5	JV	9054
11 3	9 22 19.4013	1	20 23 35.500	42 27 23.68	9012	15815 S 3	TA	9061
11 3	9 22 26.6988	1	2 6 32.297	29 6 41.21	9005	11287 S 6	JV	9055
11 3	9 22 27.4011	1	20 24 33.176	41 59 3.46	9012	15815 S 4	TA	9062
11 3	9 22 34.6987	1	2 5 15.090	28 37 37.83	9005	11287 S 7	JV	9400
11 3	9 22 35.4013	1	20 25 29.651	41 30 39.91	9012	15815 S 5	TA	9063
11 3	9 22 42.6989	1	2 3 58.427	28 8 33.13	9005	11287 S 8	JV	9401
11 3	9 22 43.4012	1	20 26 25.014	41 2 4.39	9012	15815 S 6	TA	9064
11 3	9 22 50.6989	1	2 2 42.702	27 39 15.78	9005	11287 S 9	JV	9058
11 3	9 22 51.4012	1	20 27 18.845	40 33 32.63	9012	15815 S 7	TA	9065
11 3	9 22 58.6987	1	2 1 27.960	27 9 55.21	9005	11287 S10	JV	9402
11 3	9 22 59.4012	1	20 28 11.866	40 4 52.40	9012	15815 S 8	TA	9066
11 3	9 24 18.6962	1	1 49 52.450	22 10 54.62	9005	11288 S 1	DK	9569
11 3	9 24 26.7030	1	1 48 47.409	21 40 33.75	9005	11288 S 2	DK	9570
11 3	9 24 27.4069	1	20 36 45.366	34 45 19.30	9012	15816 S 1	DK	9574
11 3	9 24 34.7031	1	1 47 43.276	21 10 10.46	9005	11288 S 3	DK	9571
11 3	9 24 35.4069	1	20 37 26.279	34 15 54.56	9012	15816 S 2	DK	9575
11 3	9 24 43.4068	1	20 38 6.275	33 46 33.86	9012	15816 S 3	JV	369
11 3	9 24 50.7032	1	1 45 37.709	20 9 12.41	9005	11288 S 5	DK	9572
11 3	9 24 51.4067	1	20 38 45.605	33 17 8.48	9012	15816 S 4	JV	9577
11 3	9 24 58.7030	1	1 44 35.934	19 38 37.19	9005	11288 S 6	DK	9573

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 3	5 24 59.4069	1	20 39 23.960	32 47 41.99	9012	15816 S 5	JV	9578
11 4	1 57 15.8970	1	0 4 50.477	61 33 13.28	9010	15525 S 4	AC	7571
11 4	1 57 23.3969	1	2 23 28.914	38 15 31.77	9001	18451 S 3	TA	7565
11 4	1 57 23.8970	1	0 3 16.781	60 55 28.08	9010	15525 S 5	AC	7572
11 4	1 57 31.3969	1	2 21 52.513	37 47 44.34	9001	18451 S 4	TA	7566
11 4	1 57 31.8972	1	0 1 45.928	60 17 22.60	9010	15525 S 6	AC	7573
11 4	1 57 36.3970	1	2 20 17.574	37 19 38.31	9011	18451 S 5	TA	7567
11 4	1 57 36.8973	1	0 0 17.581	59 38 57.12	9010	15525 S 7	AC	7574
11 4	1 57 47.3974	1	2 18 43.622	36 51 27.42	9001	18451 S 6	TA	7568
11 4	1 57 55.3971	1	2 17 10.861	36 23 2.58	9001	18451 S 7	TA	7569
11 4	1 57 55.8976	1	23 57 29.439	58 21 11.82	9010	15525 S 9	AC	7575
11 4	1 58 3.3973	1	2 15 39.475	35 54 21.75	9001	18451 S 8	TA	7570
11 4	1 58 3.8978	1	23 56 9.683	57 41 48.08	9010	15525 S 10	AC	7576
11 4	1 58 11.3972	1	2 14 9.346	35 25 31.84	9001	18451 S 9	TA	8771
11 4	1 58 11.8971	1	23 54 51.417	57 2 8.11	9010	15525 S 11	AC	7577
11 4	2 1 7.4013	1	1 45 40.422	24 10 3.30	9001	18452 S 7	JV	7578
11 4	2 1 15.4016	1	1 44 33.808	23 37 52.43	9001	18452 S 8	JV	7579
11 4	2 1 23.4016	1	1 43 28.217	23 5 43.20	9001	18452 S 9	JV	8722
11 4	2 1 23.9071	1	23 31 49.558	39 54 25.87	9010	15526 S 10	DK	7585
11 4	2 1 31.4014	1	1 42 23.125	22 33 21.89	9001	18452 S 10	DK	7581
11 4	2 1 31.9075	1	23 31 5.986	39 9 7.89	9010	15526 S 11	DK	7586
11 4	2 1 39.4014	1	1 41 19.213	22 0 59.11	9001	18452 S 11	DK	7582
11 4	2 1 39.9076	1	23 33 23.347	38 23 35.68	9010	15526 S 12	DK	7587
11 4	2 1 47.4016	1	1 40 16.016	21 28 36.43	9001	18452 S 12	DK	7583
11 4	2 1 47.9077	1	23 29 41.238	37 38 5.62	9010	15526 S 13	DK	7588
11 4	2 1 55.4014	1	1 39 13.397	20 56 1.59	9001	18452 S 13	DK	7584
11 4	2 3 7.4029	1	1 30 25.795	16 0 53.63	9010	18453 S 2	AC	7589
11 4	2 3 7.9079	1	23 23 17.681	29 57 17.87	9010	15527 S 5	EM	7596
11 4	2 3 15.4029	1	1 29 30.547	15 27 58.14	9001	18453 S 3	HP	7590
11 4	2 3 15.9111	1	23 22 42.431	29 10 55.71	9010	15527 S 6	FM	7597
11 4	2 3 22.4028	1	1 28 36.225	14 55 0.37	9001	18453 S 4	HP	7591
11 4	2 3 22.9114	1	23 22 7.685	28 24 31.49	9010	15527 S 7	FM	7598
11 4	2 3 31.4021	1	1 27 42.460	14 22 0.02	9001	18453 S 5	EM	7592
11 4	2 3 31.9116	1	23 21 33.293	27 38 7.03	9010	15527 S 8	EM	7599
11 4	2 3 35.4031	1	1 26 49.340	13 40 1.23	9001	18453 S 6	EM	7593
11 4	2 3 35.9118	1	23 20 59.377	26 51 45.41	9010	15527 S 9	EM	8723
11 4	2 3 47.4032	1	1 25 56.960	13 16 0.89	9001	18453 S 7	EM	7594
11 4	2 3 47.9120	1	23 20 25.920	26 5 21.26	9010	15527 S 10	EM	8724
11 4	2 3 55.4032	1	1 25 5.229	12 42 58.32	9001	18453 S 8	EM	7595
11 4	2 3 55.9124	1	23 19 52.903	25 18 54.82	9010	15527 S 11	EM	7600
11 4	2 10 3.3381	1	22 59 16.095	- 7 30 28.61	9010	15528 S 5	FI	8210
11 4	2 10 11.3383	1	22 58 52.621	- 8 3 59.27	9011	15528 S 6	FI	8211
11 4	2 10 11.4716	1	21 54 1.275	-12 7 57.19	9001	13454 S 6	FI	8248
11 4	2 10 11.4144	1	21 48 1.662	-12 45 23.46	9009	14308 S 5	FI	8255
11 4	2 10 15.3383	1	22 58 28.894	- 8 47 16.10	9010	15528 S 7	FI	8726

DATE		TIME (A-L)		RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.			
Y	M	D	H	M	S	MS	H	M	S	D	M	S					
1964	11	4	2	10	19.4018	1	0	53	30.177	-12	37	19.12	4	9001	18454 S 9	FI	9407
	11	4	2	10	19.4143	1	21	47	52.100	12	5	9.25	4	9009	14308 S 6	FI	8256
	11	4	2	10	27.3387	1	22	58	5.552	-9	24	13.21	4	9010	15528 S 8	FI	8212
	11	4	2	10	27.4017	1	0	53	0.352	-13	6	39.97	4	9001	18454 S10	FI	9408
	11	4	2	10	27.4145	1	21	47	42.467	11	24	57.14	4	9009	14308 S 7	FI	8257
	11	4	2	10	35.3387	1	22	57	41.981	-10	0	57.76	4	9010	15528 S 9	FI	8213
	11	4	2	10	35.4016	1	0	52	30.957	-13	35	53.09	4	9001	18454 S11	FI	9409
	11	4	2	10	35.4145	1	21	47	32.608	10	44	49.38	4	9009	14308 S 8	FI	8258
	11	4	2	10	43.3389	1	22	57	18.650	-10	37	22.70	4	9010	15528 S10	FI	8214
	11	4	2	10	43.4017	1	0	52	1.676	-14	4	59.59	4	9001	18454 S12	FI	8725
	11	4	2	10	43.4147	1	21	47	1.081	8	45	6.60	4	9009	14308 S11	FI	8261
	11	4	2	11	7.3392	1	22	56	8.721	-12	25	1.04	4	9010	15528 S13	FI	8215
	11	4	2	12	11.4174	1	21	45	13.678	2	51	39.38	4	9009	14309 S 2	JW	942
	11	4	2	12	15.3430	1	22	52	39.982	-17	33	30.49	4	9010	15529 S 4	HP	1120
	11	4	2	12	19.4171	1	21	45	0.337	2	12	59.34	4	9009	14309 S 3	JW	943
	11	4	2	12	27.3434	1	22	52	16.833	-18	6	28.59	4	9010	15529 S 5	HP	1121
	11	4	2	12	27.4035	1	0	46	8.223	-20	11	37.62	4	9001	18455 S 4	LR	935
	11	4	2	12	27.4169	1	21	44	46.944	1	34	34.88	4	9009	14309 S 4	KA	1750
	11	4	2	12	35.3433	1	22	51	53.838	-18	39	10.52	4	9010	15529 S 6	SW	1122
	11	4	2	12	35.4038	1	0	45	42.785	-20	38	58.36	4	9001	18455 S 5	LR	936
	11	4	2	12	35.4169	1	21	44	33.400	0	56	13.34	4	9009	14309 S 5	KA	945
	11	4	2	12	43.3435	1	22	51	30.658	-19	11	35.65	4	9010	15529 S 7	SW	1123
	11	4	2	12	43.4036	1	0	45	17.577	-21	6	8.42	4	9001	18455 S 6	JW	937
	11	4	2	12	43.4168	1	21	44	19.422	0	18	3.71	4	9009	14309 S 6	KA	946
	11	4	2	12	51.3436	1	22	51	7.479	-19	43	47.47	4	9010	15529 S 8	SW	1124
	11	4	2	12	51.4040	1	0	44	52.947	-21	33	11.45	4	9001	18455 S 7	JW	938
	11	4	2	12	51.4167	1	21	44	5.268	-0	19	55.30	4	9009	14309 S 7	KA	947
	11	4	2	12	59.3436	1	22	50	44.324	-20	15	43.21	4	9010	15529 S 9	SW	1125
	11	4	2	12	59.4036	1	0	44	28.371	-22	0	10.39	4	9001	18455 S 8	JW	1749
	11	4	2	12	59.4166	1	21	43	50.907	-0	57	47.74	4	9009	14309 S 8	DK	948
	11	4	2	13	7.3436	1	22	50	21.071	-20	47	27.53	4	9010	15529 S10	SW	1126
	11	4	2	13	7.4037	1	0	44	4.004	-22	27	1.45	4	9001	18455 S 9	JW	940
	11	4	2	13	15.4036	1	0	43	39.939	-22	53	39.15	4	9001	18455 S10	JW	941
	11	4	12	59	23.2029	1	21	1	46.536	47	22	28.43	4	9005	11310 S 2	KA	925
	11	4	12	59	23.3990	1	3	6	11.620	42	2	16.91	4	9006	14619 S 8	LR	1748
	11	4	12	59	31.3991	1	3	4	31.190	41	41	43.91	4	9006	14619 S 9	LR	930
	11	4	12	59	39.2027	1	21	4	4.002	46	8	15.55	4	9005	11310 S 3	KA	926
	11	4	12	59	35.3992	1	3	2	51.518	41	20	55.49	4	9006	14619 S10	LR	931
	11	4	12	59	47.3990	1	3	1	12.874	40	59	55.59	4	9006	14619 S11	LR	932
	11	4	12	59	55.2035	1	21	6	13.484	44	53	37.78	4	9005	11310 S 4	KA	927
	11	4	12	59	55.3991	1	2	59	35.636	40	38	42.46	4	9006	14619 S12	LR	933

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 4	12 0 3.3991	1	2 57 59.286	40 17 15.16	9006	14619 S13	LR	934
11 4	12 0 11.2039	1	21 8 16.002	43 38 44.73	9005	11310 S 5	KA	928
11 5	C 21 21.6691	1	C 55 40.695	-18 34 5.11	9010	15538 S 3	TA	1356
11 5	C 21 29.6694	1	0 55 15.914	-19 3 21.09	9010	15538 S 4	TA	1357
11 5	C 21 31.4252	1	0 22 51.383	-3 24 42.82	9009	14324 S 2	JV	1352
11 5	C 21 39.4155	1	0 33 14.530	33 26 5.99	9007	15734 S 2	DK	1345
11 5	C 21 39.4252	1	0 22 18.386	-4 6 17.48	9009	14324 S 3	JV	1353
11 5	C 21 47.4159	1	0 32 43.801	32 57 46.41	9007	15734 S 3	WC	1346
11 5	C 21 47.4254	1	0 21 45.892	-4 47 46.25	9009	14324 S 4	JV	1354
11 5	C 21 48.5866	1	0 54 17.713	-20 11 59.31	9010	15538 S 6	TA	1358
11 5	C 21 55.4161	1	0 32 13.443	32 29 12.25	9007	15734 S 4	WC	1347
11 5	C 21 55.4252	1	0 21 13.477	-5 29 14.76	9009	14324 S 5	FI	2073
11 5	C 21 56.5865	1	0 53 53.779	-20 40 45.13	9010	15538 S 7	TA	1359
11 5	C 22 3.4163	1	0 31 43.304	32 0 27.92	9007	15734 S 5	WC	1348
11 5	C 22 3.4252	1	0 20 41.302	-6 10 37.24	9009	14324 S 6	FI	1746
11 5	C 22 4.5867	1	0 53 29.922	-21 9 30.77	9010	15538 S 8	TA	1360
11 5	C 22 11.4164	1	0 31 13.411	31 31 28.19	9007	15734 S 6	WC	1349
11 5	C 22 12.5866	1	0 53 6.491	-21 38 4.03	9010	15538 S 9	TA	1361
11 5	C 22 19.4163	1	0 30 43.786	31 2 15.60	9007	15734 S 7	WC	1350
11 5	C 22 19.4253	1	0 19 37.760	-7 33 0.05	9009	14324 S 8	FI	1355
11 5	C 22 27.4160	1	0 30 14.352	30 32 46.72	9007	15734 S 8	JV	1351
11 5	C 25 7.4163	1	0 21 11.589	19 54 2.05	9007	15735 S 2	EM	375
11 5	C 25 15.4161	1	0 20 46.398	19 19 31.36	9007	15735 S 3	EM	9150
11 5	C 25 23.4161	1	0 20 21.432	18 44 45.31	9007	15735 S 4	EM	9151
11 5	C 25 23.4218	1	0 8 23.389	-22 37 29.82	9009	14325 S 6	DK	9156
11 5	C 25 31.4158	1	0 19 56.577	18 9 43.45	9007	15735 S 5	EM	9152
11 5	C 25 31.4218	1	0 7 55.905	-23 14 40.04	9009	14325 S 7	DK	9157
11 5	C 25 35.4153	1	0 19 31.855	17 34 28.24	9007	15735 S 6	EM	9153
11 5	C 25 35.4218	1	0 7 28.763	-23 51 35.85	9009	14325 S 8	DK	9158
11 5	C 25 47.4152	1	0 19 7.429	16 58 56.63	9007	15735 S 7	EM	9154
11 5	C 25 47.4218	1	0 7 1.630	-24 28 19.91	9009	14325 S 9	DK	9159
11 5	C 25 55.4162	1	0 18 43.089	16 23 13.03	9007	15735 S 8	EM	9155
11 5	C 25 55.4218	1	0 6 34.433	-25 4 52.39	9009	14325 S10	DK	9160
11 5	C 26 3.4218	1	0 6 7.536	-25 41 10.97	9009	14325 S11	DK	9161
11 5	C 28 27.3036	1	23 29 16.577	22 0 37.89	9011	16775 S 3	WC	9968
11 5	C 28 35.3032	1	23 28 53.080	21 31 5.95	9011	16775 S 4	WC	9969
11 5	C 28 35.4163	1	0 11 2.700	3 36 50.81	9007	15736 S 2	SW	9838
11 5	C 28 43.3035	1	23 28 29.579	21 1 21.85	9011	16775 S 5	LR	9970
11 5	C 28 43.4156	1	0 10 40.731	2 56 12.40	9007	15736 S 3	WI	9839
11 5	C 28 51.3035	1	23 28 6.118	20 31 21.99	9011	16775 S 6	LR	9971
11 5	C 28 51.4162	1	0 10 19.227	2 15 15.47	9007	15736 S 4	WI	9840
11 5	C 28 51.4235	1	23 57 1.192	-37 33 42.25	9009	14326 S 4	JW	827
11 5	C 28 59.4157	1	0 9 57.343	1 34 6.48	9007	15736 S 5	WI	9841
11 5	C 28 59.4235	1	23 56 35.828	-38 5 13.66	9009	14326 S 5	JW	9846
11 5	C 29 7.3035	1	23 27 19.101	19 30 43.13	9011	16775 S 8	LR	9972

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 5	C 29 7.4159	1	0 9 35.685	0 52 48.60	9007	15736 S 6	WI	9842
11 5	C 29 7.4235	1	23 56 10.369	-38 36 33.60	9009	14326 S 6	JW	9847
11 5	C 29 15.3035	1	23 26 55.557	18 59 59.36	9011	16775 S 9	LR	9973
11 5	C 29 15.4160	1	0 9 14.165	0 11 12.78	9007	15736 S 7	WI	9843
11 5	C 29 15.4235	1	23 55 45.100	-39 7 41.60	9009	14326 S 7	JW	9848
11 5	C 29 23.3034	1	23 26 31.800	18 29 7.29	9011	16775 S10	SW	9974
11 5	C 29 23.4156	1	0 8 52.729	-0 30 29.10	9007	15736 S 8	WI	9844
11 5	C 29 23.4234	1	23 55 19.816	-39 38 36.87	9009	14326 S 8	JW	9849
11 5	C 29 31.4235	1	23 54 54.200	-40 9 19.64	9009	14326 S 9	JW	9850
11 5	C 29 39.4235	1	23 54 29.118	-40 39 49.25	9009	14326 S10	JW	9851
11 5	C 31 55.3034	1	23 18 45.235	7 56 13.72	9011	16776 S 3	AC	9537
11 5	C 31 55.4093	1	0 2 15.680	-14 11 54.42	9007	15737 S 1	FI	110
11 5	C 32 3.3034	1	23 18 19.663	7 20 27.41	9011	16776 S 4	AC	9538
11 5	C 32 3.4086	1	0 1 55.095	-14 56 16.83	9007	15737 S 2	FI	830
11 5	C 32 3.4229	1	23 46 49.012	-49 14 28.03	9009	14327 S 4	TA	377
11 5	C 32 11.3032	1	23 17 53.964	6 44 28.01	9011	16776 S 5	AC	9539
11 5	C 32 11.4091	1	0 1 34.516	-15 40 34.55	9007	15737 S 3	FI	112
11 5	C 32 11.4229	1	23 46 22.902	-49 41 12.47	9009	14327 S 5	TA	9531
11 5	C 32 19.3033	1	23 17 27.944	6 8 8.04	9011	16776 S 6	AC	9540
11 5	C 32 19.4090	1	0 1 14.192	-16 25 5.61	9007	15737 S 4	FI	113
11 5	C 32 19.4228	1	23 45 56.597	-50 7 50.71	9009	14327 S 6	TA	9532
11 5	C 32 27.3031	1	23 17 1.720	5 31 37.36	9011	16776 S 7	AC	9541
11 5	C 32 27.4093	1	0 0 53.790	-17 9 27.60	9007	15737 S 5	FI	114
11 5	C 32 27.4228	1	23 45 35.493	-50 34 15.78	9009	14327 S 7	HP	9533
11 5	C 32 35.3031	1	23 16 35.386	4 54 49.24	9011	16776 S 8	AC	9542
11 5	C 32 35.4080	1	0 0 33.229	-17 53 52.12	9007	15737 S 6	EM	115
11 5	C 32 35.4227	1	23 45 4.023	-51 0 32.10	9009	14327 S 8	HP	9534
11 5	C 32 43.3031	1	23 16 8.843	4 17 46.83	9011	16776 S 9	AC	9543
11 5	C 32 43.4091	1	0 0 12.560	-18 38 24.13	9007	15737 S 7	EM	116
11 5	C 32 43.4227	1	23 44 37.259	-51 26 36.27	9009	14327 S 9	HP	9535
11 5	C 32 51.4228	1	23 44 10.778	-51 52 30.43	9009	14327 S10	AC	9536
11 5	19 21 7.4058	1	3 53 42.779	56 24 34.41	9004	16178 S 4	JV	9309
11 5	19 21 15.4006	1	19 21 3.402	58 55 22.13	9008	20523 S 4	DK	9303
11 5	19 21 15.4057	1	3 50 34.890	56 8 35.23	9004	16178 S 5	JK	9310
11 5	19 21 23.4007	1	19 23 40.871	58 32 42.06	9008	20523 S 5	DK	9304
11 5	19 21 23.4057	1	3 47 29.023	55 52 12.86	9004	16178 S 6	JV	9311
11 5	19 21 31.4009	1	19 26 15.057	58 9 45.44	9008	20523 S 6	DK	9305
11 5	19 21 31.4058	1	3 44 24.818	55 35 23.17	9004	16178 S 7	JV	9312
11 5	19 21 39.4010	1	19 28 46.138	57 46 32.19	9008	20523 S 7	JV	9306
11 5	19 21 39.4057	1	3 41 22.944	55 18 9.28	9004	16178 S 8	JV	9313
11 5	19 21 47.4014	1	19 31 13.335	57 22 55.89	9008	20523 S 8	JV	9307
11 5	19 21 47.4060	1	3 38 22.633	55 0 26.97	9004	16178 S 9	JV	9314
11 5	19 21 55.4017	1	19 33 37.878	56 59 5.72	9008	20523 S 9	JV	9308
11 5	19 24 37.4978	1C	0 15 51.916	24 45 13.61	9115	3861 S 2	WC	9270
11 5	19 24 43.4020	1	20 13 24.592	47 44 5.31	9008	20524 S 5	WI	9277

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 5	15 24 45.4996	10	0 15 1.853	24 8 25.64	4	9115	3861 S 3	WC	9271
11 5	15 24 51.4025	1	0 14 52.224	47 15 40.16	4	9008	20524 S 6	WI	9278
11 5	15 24 53.5006	10	0 14 12.654	23 31 44.67	4	9115	3861 S 4	WC	9272
11 5	15 24 58.4025	1	0 16 18.132	46 47 5.50	4	9008	20524 S 7	WI	9279
11 5	15 25 1.5021	10	0 13 24.177	22 55 18.31	4	9115	3861 S 5	WC	9273
11 5	15 25 7.4027	1	0 17 42.384	46 18 18.56	4	9008	20524 S 8	AC	9280
11 5	15 25 9.5034	10	0 12 36.850	22 19 0.04	4	9115	3861 S 6	WC	9274
11 5	15 25 15.4026	1	0 20 19 4.560	45 49 29.42	4	9008	20524 S 9	AC	9281
11 5	15 25 17.5046	10	0 11 50.110	21 43 0.20	4	9115	3861 S 7	WI	9275
11 5	15 25 23.4030	1	0 20 20 24.820	45 20 31.64	4	9008	20524 S 10	KA	9282
11 5	15 25 25.5057	10	0 11 4.536	21 7 12.66	4	9115	3861 S 8	WI	9276
11 5	15 28 3.4051	1	1 54 56.243	34 27 59.94	4	9004	16180 S 4	KA	376
11 5	15 28 3.4084	1	20 41 53.791	35 23 38.18	4	9008	20525 S 6	KA	9476
11 5	15 28 11.4053	1	1 53 26.024	33 55 26.21	4	9004	16180 S 5	KA	9470
11 5	15 28 11.4086	1	20 42 44.465	34 53 15.62	4	9008	20525 S 7	KA	9477
11 5	15 28 19.4085	1	20 43 34.383	34 22 54.82	4	9008	20525 S 8	KA	9478
11 5	15 28 27.4052	1	1 50 29.091	32 49 47.10	4	9004	16180 S 7	KA	9471
11 5	15 28 27.4088	1	20 44 22.994	33 52 28.04	4	9008	20525 S 9	KA	9479
11 5	15 28 35.4051	1	1 49 2.716	32 16 46.57	4	9004	16180 S 8	KA	9472
11 5	15 28 35.4089	1	20 45 10.823	33 22 2.37	4	9008	20525 S 10	KA	9480
11 5	15 28 43.4050	1	1 47 37.425	31 43 35.33	4	9004	16180 S 9	KA	9473
11 5	15 28 43.4090	1	20 45 37.776	32 51 37.54	4	9008	20525 S 11	KA	9481
11 5	15 28 51.4051	1	1 46 13.372	31 15 15.36	4	9004	16180 S 10	KA	9474
11 5	15 28 51.4093	1	20 46 43.252	32 21 14.99	4	9008	20525 S 12	KA	9482
11 5	15 28 59.4049	1	1 44 51.021	30 36 49.63	4	9004	16180 S 11	KA	9475
11 6	1 8 47.4942	1	0 26 55.325	9 36 32.92	4	9010	15557 S 5	KA	832
11 6	1 8 55.4943	1	0 26 11.208	8 55 25.09	4	9010	15557 S 6	KA	545
11 6	1 8 59.4360	1	23 18 41.694	33 39 50.59	4	9009	14340 S 4	KA	1277
11 6	1 9 3.4947	1	0 25 27.879	8 14 26.85	4	9010	15557 S 7	KA	546
11 6	1 9 5.4484	1	1 36 6.503	0 25 31.60	4	9001	18495 S 6	KA	538
11 6	1 9 7.4362	1	23 18 6.696	32 56 41.82	4	9009	14340 S 5	KA	1278
11 6	1 9 11.4948	1	0 24 45.178	7 33 30.90	4	9010	15557 S 8	KA	547
11 6	1 9 13.4482	1	1 35 32.967	- 0 0 56.02	4	9001	18495 S 7	KA	539
11 6	1 9 15.4363	1	23 17 32.114	32 13 20.85	4	9009	14340 S 6	KA	1279
11 6	1 9 15.4949	1	0 24 2.431	6 52 39.98	4	9010	15557 S 9	KA	548
11 6	1 9 21.4481	1	1 34 59.520	- 0 27 29.32	4	9001	18495 S 8	KA	540
11 6	1 9 23.4365	1	23 16 57.806	31 29 47.05	4	9009	14340 S 7	KA	1280
11 6	1 9 27.4952	1	0 23 20.498	6 11 57.70	4	9010	15557 S 10	KA	549
11 6	1 9 29.4483	1	1 34 26.286	- 0 53 53.65	4	9001	18495 S 9	KA	541
11 6	1 9 31.4364	1	23 16 23.881	30 46 0.93	4	9009	14340 S 8	KA	1281
11 6	1 9 35.4954	1	0 22 38.980	5 31 23.30	4	9010	15557 S 11	KA	550
11 6	1 9 37.4480	1	1 33 53.590	- 1 20 16.29	4	9001	18495 S 10	KA	542
11 6	1 9 39.4368	1	23 15 53.247	30 2 6.72	4	9009	14340 S 9	KA	1282
11 6	1 9 45.4480	1	1 33 21.281	- 1 46 39.74	4	9001	18495 S 11	KA	543
11 6	1 9 47.4370	1	23 15 16.649	29 18 4.35	4	9009	14340 S 10	KA	1283

Satellite 1961 Alpha Delta 1

6 November 1964

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 11 6	1 9 53.4478	1	1 32 49.272	- 2 13 0.40	4	9001	18495 S12	KA	544
11 6	1 14 19.4419	1	22 58 11.910	3 35 57.00	4	9009	14342 S 2	KA	293
11 6	1 14 19.5309	1	C 2 1.199	-16 38 16.69	4	9010	15558 S 1	KA	9852
11 6	1 14 27.4115	1	23 15 36.128	40 29 7.75	4	9007	15751 S 1	KA	287
11 6	1 14 27.4416	1	22 57 43.416	2 51 5.51	4	9009	14342 S 3	KA	294
11 6	1 14 27.5309	1	0 1 31.399	-17 11 58.01	4	9010	15558 S 2	KA	9853
11 6	1 14 35.4114	1	23 15 6.186	40 0 20.29	4	9007	15751 S 2	KA	828
11 6	1 14 35.4417	1	22 57 15.082	2 6 22.52	4	9009	14342 S 4	KA	829
11 6	1 14 35.5310	1	0 1 1.896	-17 45 30.70	4	9010	15558 S 3	KA	9854
11 6	1 14 42.4123	1	23 14 36.585	39 31 16.64	4	9007	15751 S 3	KA	288
11 6	1 14 43.4416	1	22 56 46.788	1 21 45.41	4	9009	14342 S 5	KA	296
11 6	1 14 43.5314	1	0 0 32.563	-18 18 46.58	4	9010	15558 S 4	KA	9855
11 6	1 14 51.4118	1	23 14 6.867	39 2 0.79	4	9007	15751 S 4	KA	289
11 6	1 14 51.4416	1	22 56 18.742	0 37 23.50	4	9009	14342 S 6	KA	297
11 6	1 14 51.5316	1	0 0 3.307	-18 51 52.52	4	9010	15558 S 5	KA	9856
11 6	1 14 59.4117	1	23 13 37.375	38 32 33.14	4	9007	15751 S 5	KA	290
11 6	1 14 59.4419	1	22 55 50.415	- 0 6 55.83	4	9009	14342 S 7	KA	298
11 6	1 14 59.5315	1	23 59 34.141	-19 24 43.48	4	9010	15558 S 6	KA	9857
11 6	1 15 7.4123	1	23 13 7.683	38 2 52.21	4	9007	15751 S 6	KA	291
11 6	1 15 7.4417	1	22 55 22.181	- 0 51 2.19	4	9009	14342 S 8	KA	299
11 6	1 15 7.5316	1	23 59 5.384	-19 57 22.27	4	9010	15558 S 7	KA	9858
11 6	1 15 15.4117	1	23 12 38.314	37 32 57.96	4	9007	15751 S 7	KA	292
11 6	1 17 47.4111	1	23 3 25.338	27 21 30.79	4	9007	15752 S 1	KA	8340
11 6	1 17 55.4101	1	23 2 56.224	26 47 0.21	4	9007	15752 S 2	KA	8727
11 6	1 18 3.4105	1	23 2 27.236	26 12 17.38	4	9007	15752 S 3	KA	8341
11 6	1 18 3.5332	1	23 49 8.669	-31 2 21.56	4	9010	15559 S 3	KA	8728
11 6	1 18 11.4107	1	23 1 57.847	25 37 15.04	4	9007	15752 S 4	KA	8342
11 6	1 18 11.5333	1	23 48 43.280	-31 30 14.38	4	9010	15559 S 4	KA	8346
11 6	1 18 19.4108	1	23 1 28.723	25 1 59.39	4	9007	15752 S 5	KA	8343
11 6	1 18 19.5334	1	23 48 17.470	-31 57 57.87	4	9010	15559 S 5	KA	8347
11 6	1 18 27.4105	1	23 0 59.681	24 26 28.92	4	9007	15752 S 6	KA	8344
11 6	1 18 27.5334	1	23 47 52.024	-32 25 29.11	4	9010	15559 S 6	KA	8348
11 6	1 18 35.4101	1	23 0 30.213	23 50 47.15	4	9007	15752 S 7	KA	8345
11 6	1 18 35.5337	1	23 47 26.528	-32 52 50.74	4	9010	15559 S 7	KA	8349
11 6	1 18 43.5336	1	23 47 0.928	-33 19 59.27	4	9010	15559 S 8	KA	8350
11 6	1 20 19.4084	1	22 54 2.361	15 45 3.08	4	9007	15753 S 2	KA	161
11 6	1 20 27.4090	1	22 53 31.967	15 6 4.90	4	9007	15753 S 3	KA	162
11 6	1 20 35.4074	1	22 53 1.123	14 26 58.32	4	9007	15753 S 4	KA	163
11 6	1 20 43.4080	1	22 52 30.440	13 47 31.83	4	9007	15753 S 5	KA	820
11 6	1 20 51.4081	1	22 51 59.434	13 7 57.30	4	9007	15753 S 6	KA	165
11 6	1 20 51.4429	1	22 34 17.427	-28 54 9.46	4	9009	14344 S10	KA	156
11 6	1 20 59.4077	1	22 51 28.485	-28 10.29	4	9007	15753 S 7	KA	821
11 6	1 20 59.4434	1	22 33 45.402	-29 27 33.42	4	9009	14344 S11	KA	157
11 6	1 21 7.4075	1	22 50 57.274	11 48 10.37	4	9007	15753 S 8	KA	167
11 6	1 21 7.4433	1	22 33 12.915	-30 0 44.64	4	9009	14344 S12	KA	158

DATE			TIME (A-1)			RMS	R.A.(1950.0)			DECL.(1950.0)			STATION	FRAME NO.	MS	OBS.NO.
Y	M	D	H	M	S	MS	H	M	S	D	M	S				
1964	11	6	1	21	15.4433	1	22	32	40.399	-30	33	39.92	4	14344 S13	KA	159
	11	6	1	21	23.4437	1	22	32	7.778	-31	6	22.06	4	14344 S14	KA	160
	11	7	1	56	27.4013	1	21	34	54.897	59	15	55.43	4	14361 S 1	FI	8867
	11	7	1	56	35.4014	1	21	35	28.499	58	43	56.23	4	14361 S 2	FI	8868
11	7	1	56	43.4015	1	21	36	1.225		58	11	50.24	4	14361 S 3	FI	8869
11	7	1	56	43.6010	1	23	28	5.032		45	7	5.29	4	15575 S 1	FI	9403
11	7	1	56	51.4015	1	21	36	32.001		57	39	32.79	4	14361 S 4	FI	8870
11	7	1	56	51.6012	1	23	27	22.813		44	22	35.02	4	15575 S 2	FI	9404
11	7	1	56	59.4013	1	21	37	1.914		57	6	56.14	4	14361 S 5	FI	8871
11	7	1	56	55.6013	1	23	26	40.954		43	38	3.22	4	15575 S 3	FI	9405
11	7	1	57	7.4014	1	21	37	30.955		56	34	10.40	4	14361 S 6	FI	8872
11	7	1	57	7.6005	1	23	26	0.062		42	53	17.97	4	15575 S 4	FI	9406
11	7	1	57	15.4013	1	21	37	58.610		56	1	15.12	4	14361 S 7	FI	8873
11	7	1	57	15.6016	1	23	25	2.290		42	8	25.51	4	15575 S 5	FI	8878
11	7	1	57	23.6012	1	23	24	40.946		41	23	21.78	4	15575 S 6	FI	8879
11	7	1	57	31.6012	1	23	24	2.331		40	38	12.13	4	15575 S 7	FI	8880
11	7	18	26	3.8098	1	20	24	41.286		61	46	48.91	4	20559 S 1	JW	9821
11	7	18	26	11.8098	1	20	26	54.819		61	15	39.09	4	20559 S 2	JW	9822
11	7	18	26	15.8100	1	20	29	3.847		60	44	13.86	4	20559 S 3	JW	9823
11	7	18	26	27.8099	1	20	31	9.605		60	12	30.88	4	20559 S 4	JW	9824
11	7	18	26	35.4259	1	3	0	10.342		39	11	49.78	4	16197 S 4	AC	9814
11	7	18	26	35.8111	1	20	33	10.003		59	40	34.50	4	20559 S 5	JW	9825
11	7	18	26	43.4258	1	2	58	28.276		38	49	45.69	4	16197 S 5	AC	9815
11	7	18	26	51.4257	1	2	56	47.553		38	27	27.70	4	16197 S 6	AC	9816
11	7	18	26	59.4257	1	2	55	7.886		38	5	2.06	4	16197 S 7	AC	9817
11	7	18	27	7.4259	1	2	53	29.331		37	42	22.09	4	16197 S 8	AC	9818
11	7	18	27	15.4255	1	2	51	52.037		37	19	26.45	4	16197 S 9	AC	9819
11	7	18	27	23.4258	1	2	50	15.759		36	56	24.34	4	16197 S10	AC	9820
11	7	18	29	35.8338	1	21	5	37.727		46	24	37.28	4	20560 S 2	EM	9938
11	7	18	29	47.8316	1	21	6	35.661		45	48	6.79	4	20560 S 3	EM	9939
11	7	18	29	55.8337	1	21	7	31.736		45	11	29.69	4	20560 S 4	JV	9940
11	7	18	30	3.4263	1	2	21	48.068		28	40	38.48	4	16198 S 4	EM	9931
11	7	18	30	3.8340	1	21	8	26.422		44	34	46.53	4	20560 S 5	JV	9941
11	7	18	30	11.4262	1	2	20	32.946		28	14	23.45	4	16198 S 5	EM	9932
11	7	18	30	15.4261	1	2	19	18.659		27	48	5.50	4	16198 S 6	EM	9933
11	7	18	30	27.4262	1	2	18	4.963		27	21	34.00	4	16198 S 7	EM	9934
11	7	18	30	35.4262	1	2	16	52.312		26	55	0.06	4	16198 S 8	EM	9935
11	7	18	30	43.4260	1	2	15	40.615		26	28	15.30	4	16198 S 9	EM	9936
11	7	18	30	51.4260	1	2	14	29.730		26	1	31.23	4	16198 S10	EM	9937
11	8	0	23	23.4210	1	0	10	7.084		11	3	11.51	4	15808 S 3	MC	9502
11	8	0	23	31.4211	1	0	9	42.766		10	24	31.88	4	15808 S 4	MC	9503
11	8	0	23	35.4209	1	0	9	18.586		9	45	35.76	4	15808 S 5	MC	9504
11	8	0	23	47.4215	1	0	8	54.633		9	6	26.04	4	15808 S 6	MC	9505
11	8	0	23	55.4202	1	0	8	30.758		8	27	1.19	4	15808 S 7	MC	9506
11	8	0	23	55.4791	1	23	54	52.075		-32	52	37.41	4	14380 S 3	JW	9495

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 8	C 24 3.4210	1	0 8 6.778	7 47 17.42	4	9007	15808 S 8	WC	9507
11 8	C 24 3.4790	1	23 54 25.158	-33 26 10.85	4	9009	14380 S 4	JW	9496
11 8	C 24 11.4206	1	0 7 42.969	7 7 26.16	4	9007	15808 S 9	WC	9508
11 8	C 24 11.4790	1	23 53 57.854	-33 59 29.23	4	9009	14380 S 5	JW	9497
11 8	C 24 19.4790	1	23 53 30.650	-34 32 37.72	4	9009	14380 S 6	JW	9498
11 8	C 24 27.4789	1	23 53 3.592	-35 5 30.55	4	9009	14380 S 7	WC	9499
11 8	C 24 35.4787	1	23 52 36.554	-35 38 11.14	4	9009	14380 S 8	WC	9500
11 8	C 24 43.4787	1	23 52 9.533	-36 10 36.82	4	9009	14380 S 9	WC	9501
11 8	C 27 39.4199	1	23 57 41.279	-11 18 2.51	4	9007	15809 S 2	WC	9513
11 8	C 27 39.4757	1	23 42 7.175	-47 9 27.57	4	9009	14381 S 3	WC	9509
11 8	C 27 47.4206	1	23 57 18.414	-12 2 31.39	4	9007	15809 S 3	WC	9514
11 8	C 27 47.4758	1	23 41 39.110	-47 37 5.38	4	9009	14381 S 4	WC	378
11 8	C 27 55.4204	1	23 56 55.380	-12 47 4.21	4	9007	15809 S 4	WC	9515
11 8	C 27 55.4758	1	23 41 10.768	-48 4 27.75	4	9009	14381 S 5	WC	9510
11 8	C 28 3.4202	1	23 56 32.524	-13 31 41.43	4	9007	15809 S 5	SS	9516
11 8	C 28 3.4757	1	23 40 42.472	-48 31 34.77	4	9009	14381 S 6	WC	9511
11 8	C 28 11.4758	1	23 40 13.662	-48 58 42.59	4	9009	14381 S 7	WC	9512
11 8	C 28 19.4203	1	23 55 46.415	-15 1 8.61	4	9007	15809 S 7	SS	9517
11 8	C 28 27.4199	1	23 55 23.366	-15 45 55.07	4	9007	15809 S 8	SS	9518
11 8	C 28 35.4196	1	23 55 0.342	-16 30 41.80	4	9007	15809 S 9	SS	379
11 8	2 54 19.2758	1	0 25 36.713	15 30 29.53	4	9001	18544 S 5	FI	9519
11 8	2 54 27.2757	1	0 24 48.328	14 48 56.15	4	9001	18544 S 6	FI	9520
11 8	2 54 27.4237	1	21 53 31.234	20 57 5.89	4	9010	15602 S 5	FI	9526
11 8	2 54 35.2757	1	0 24 0.676	14 7 24.84	4	9001	18544 S 7	FI	9521
11 8	2 54 35.4237	1	21 53 37.052	20 16 46.57	4	9010	15602 S 6	FI	9527
11 8	2 54 43.2756	1	0 23 13.665	13 26 1.61	4	9001	18544 S 8	FI	9522
11 8	2 54 43.4239	1	21 53 42.521	19 36 35.57	4	9010	15602 S 7	FI	9528
11 8	2 54 51.2755	1	0 22 27.300	12 44 46.25	4	9001	18544 S 9	FI	9523
11 8	2 54 51.4241	1	21 53 47.526	18 56 29.35	4	9010	15602 S 8	FI	9529
11 8	2 54 59.2755	1	0 21 41.514	12 3 38.95	4	9001	18544 S 10	FI	9524
11 8	2 54 59.4244	1	21 53 52.290	18 16 30.38	4	9010	15602 S 9	FI	380
11 8	2 55 7.2755	1	0 20 56.320	11 22 34.34	4	9001	18544 S 11	FI	9525
11 8	2 55 7.4247	1	21 53 56.600	17 36 43.68	4	9010	15602 S 10	FI	9530
11 8	2 56 43.3680	1	20 59 58.056	24 37 55.57	4	9009	14385 S 2	EM	9321
11 8	2 56 51.3683	1	21 0 12.891	24 6 27.12	4	9009	14385 S 3	EM	9322
11 8	2 56 59.3680	1	21 0 27.296	23 35 1.37	4	9009	14385 S 4	EM	9323
11 8	2 57 7.2802	1	0 10 41.640	1 25 22.72	4	9001	18545 S 2	EM	9315
11 8	2 57 7.3682	1	21 0 40.972	23 3 32.09	4	9009	14385 S 5	EM	9324
11 8	2 57 15.2803	1	0 10 4.457	0 46 59.65	4	9001	18545 S 3	EM	9316
11 8	2 57 15.3685	1	21 0 54.313	22 32 3.31	4	9009	14385 S 6	EM	9325
11 8	2 57 23.2804	1	0 9 27.349	0 8 47.62	4	9001	18545 S 4	EM	9317
11 8	2 57 23.3682	1	21 1 7.202	22 0 36.47	4	9009	14385 S 7	EM	9326
11 8	2 57 31.2805	1	0 8 50.894	-0 29 9.05	4	9001	18545 S 5	EM	9318
11 8	2 57 39.2805	1	0 8 14.713	-1 6 56.35	4	9001	18545 S 6	EM	9319
11 8	2 57 39.3688	1	21 1 31.346	20 57 45.73	4	9009	14385 S 9	EM	9327

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 8	2 57 47.2805	1	0 7 38.969	- 1 44 33.31	4	9001	18545 S 7	EM	9320
11 9	C 59 39.3352	1	1 1 4.791	37 55 25.11	4	9010	15620 S 1	HP	777
11 9	C 59 47.3353	1	0 59 47.278	37 15 53.42	4	9010	15620 S 2	HP	778
11 9	C 59 47.4418	1	23 38 49.980	59 42 32.83	4	9009	14399 S 1	EM	770
11 9	C 59 55.3357	1	C 58 31.384	36 36 13.86	4	9010	15620 S 3	HP	779
11 9	C 59 55.4420	1	23 37 52.582	59 9 31.93	4	9009	14399 S 2	EM	771
11 9	1 0 3.3360	1	0 57 16.608	35 56 20.17	4	9010	15620 S 4	HP	780
11 9	1 0 3.4420	1	23 36 56.441	58 36 12.49	4	9009	14399 S 3	EM	772
11 9	1 0 11.4421	1	23 36 1.345	58 2 39.08	4	9009	14399 S 4	EM	773
11 9	1 0 19.3363	1	0 54 50.680	34 35 56.63	4	9010	15620 S 6	HP	781
11 9	1 0 19.4425	1	23 35 7.853	57 28 46.46	4	9009	14399 S 5	EM	774
11 9	1 0 27.3365	1	0 53 39.717	33 55 30.93	4	9010	15620 S 7	HP	782
11 9	1 0 27.4424	1	23 34 15.021	56 54 42.24	4	9009	14399 S 6	EM	775
11 9	1 0 35.3366	1	0 52 29.809	33 14 52.76	4	9010	15620 S 8	HP	783
11 9	1 0 35.4426	1	23 33 23.645	56 20 19.81	4	9009	14399 S 7	EM	776
11 9	1 3 47.3425	1	0 29 17.865	16 28 29.77	4	9010	15621 S 6	JV	1131
11 9	1 3 55.3425	1	0 28 29.785	15 46 10.08	4	9010	15621 S 7	DK	1132
11 9	1 3 55.4058	1	1 43 14.268	5 20 56.52	4	9001	18563 S 9	JV	1127
11 9	1 4 3.3428	1	0 27 42.049	15 3 52.99	4	9010	15621 S 8	DK	1133
11 9	1 4 2.4058	1	1 42 35.462	4 53 40.60	4	9001	18563 S10	JV	1128
11 9	1 4 11.3430	1	0 26 54.880	14 21 38.21	4	9010	15621 S 9	DK	1134
11 9	1 4 11.4056	1	1 41 57.166	4 26 24.94	4	9001	18563 S11	JV	1129
11 9	1 4 19.4057	1	1 41 19.219	3 59 12.81	4	9001	18563 S12	JV	1130
11 9	1 4 27.4056	1	1 40 41.540	3 31 59.27	4	9001	18563 S13	JV	1753
11 9	1 6 43.3463	1	0 13 38.482	1 16 26.97	4	9010	15622 S 2	LR	1272
11 9	1 6 51.3465	1	0 13 1.165	0 36 27.15	4	9010	15622 S 3	LR	1273
11 9	1 6 59.3465	1	0 12 23.871	- 0 3 19.60	4	9010	15622 S 4	LR	1274
11 9	1 7 7.3470	1	0 11 47.116	- 0 42 56.01	4	9010	15622 S 5	KA	1275
11 9	1 7 7.4473	1	23 3 39.539	23 15 27.80	4	9009	14401 S 7	KA	2074
11 9	1 7 15.3470	1	0 11 10.672	- 1 22 21.00	4	9010	15622 S 6	KA	1276
11 9	1 7 15.4475	1	23 3 11.307	22 30 23.07	4	9009	14401 S 8	KA	1268
11 9	1 7 23.4474	1	23 2 42.815	21 45 9.91	4	9009	14401 S 9	LR	1269
11 9	1 7 31.4478	1	23 2 14.628	20 59 55.35	4	9009	14401 S10	LR	1270
11 9	1 7 35.4480	1	23 1 46.720	20 14 35.11	4	9009	14401 S11	LR	1271
11 9	1 9 15.3493	1	0 2 42.587	-10 49 49.62	4	9010	15623 S 3	JW	1300
11 9	1 9 23.3495	1	0 2 10.964	-11 25 57.59	4	9010	15623 S 4	JW	2077
11 9	1 9 31.3497	1	0 1 39.550	-12 1 52.99	4	9010	15623 S 5	JW	1302
11 9	1 9 31.4232	1	23 13 45.975	44 36 19.24	4	9007	15840 S 6	FI	1296
11 9	1 9 39.3497	1	0 1 8.231	-12 37 29.32	4	9010	15623 S 6	JW	1303
11 9	1 9 39.4231	1	23 13 16.898	44 9 7.43	4	9007	15840 S 7	FI	1297
11 9	1 9 47.4232	1	23 12 47.495	43 41 52.94	4	9007	15840 S 8	FI	1298
11 9	1 9 55.4233	1	23 12 18.252	43 14 21.49	4	9007	15840 S 9	FI	1299
11 9	1 12 42.4221	1	23 2 20.418	32 48 31.63	4	9007	15841 S 3	KA	1304
11 9	1 12 42.4567	1	22 44 39.869	- 7 52 43.21	4	9009	14403 S 5	SW	1311
11 9	1 12 51.4205	1	23 1 52.265	32 16 23.29	4	9007	15841 S 4	KA	1305

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 9	1 12 51.4567	1	22 44 12.372	- 8 34 11.98	4	9009	14403 S 6	SW	1312
11 9	1 12 59.4220	1	23 1 24.102	31 43 57.55	4	9007	15841 S 5	KA	1306
11 9	1 12 59.4567	1	22 43 45.257	- 9 15 31.51	4	9009	14403 S 7	SW	1313
11 9	1 13 7.4223	1	23 0 56.055	31 11 19.73	4	9007	15841 S 6	SW	1307
11 9	1 13 7.4567	1	22 43 17.913	- 9 56 36.97	4	9009	14403 S 8	DK	1314
11 9	1 13 15.4215	1	23 0 27.799	30 38 27.39	4	9007	15841 S 7	SW	2078
11 9	1 13 15.4567	1	22 42 50.470	-10 37 26.92	4	9009	14403 S 9	DK	1315
11 9	1 13 23.4215	1	22 59 59.541	30 5 21.79	4	9007	15841 S 8	SW	1309
11 9	1 13 23.4569	1	22 42 22.822	-11 18 6.23	4	9009	14403 S10	DK	1316
11 9	1 13 31.4221	1	22 59 30.972	29 32 3.39	4	9007	15841 S 9	SW	1310
11 9	1 13 31.4572	1	22 41 55.145	-11 58 27.89	4	9009	14403 S11	DK	1317
11 9	1 15 47.4472	1	22 33 47.911	-22 45 47.31	4	9009	14404 S 1	EM	1142
11 9	1 15 55.4470	1	22 33 17.894	-23 21 26.77	4	9009	14404 S 2	EM	1143
11 9	1 16 3.4259	1	22 50 21.062	18 15 3.20	4	9007	15842 S 1	FI	1135
11 9	1 16 3.4470	1	22 32 47.895	-23 56 57.39	4	9009	14404 S 3	EM	1144
11 9	1 16 11.4263	1	22 49 51.227	17 37 11.04	4	9007	15842 S 2	FI	1136
11 9	1 16 11.4467	1	22 32 17.644	-24 32 6.30	4	9009	14404 S 4	EM	1145
11 9	1 16 19.4250	1	22 49 21.069	16 59 5.58	4	9007	15842 S 3	FI	1137
11 9	1 16 27.4260	1	22 48 50.938	16 20 46.02	4	9007	15842 S 4	FI	1138
11 9	1 16 27.4465	1	22 31 16.637	-25 41 42.28	4	9009	14404 S 6	EM	1146
11 9	1 16 35.4257	1	22 48 20.634	15 42 13.14	4	9007	15842 S 5	FI	1139
11 9	1 16 35.4465	1	22 30 45.875	-26 16 7.28	4	9009	14404 S 7	EM	1147
11 9	1 16 43.4244	1	22 47 50.221	15 3 30.12	4	9007	15842 S 6	FI	1140
11 9	1 16 51.4254	1	22 47 19.703	14 24 35.83	4	9007	15842 S 7	FI	1141
11 9	1 18 51.4506	1	22 21 28.474	-35 21 20.60	4	9009	14405 S10	JV	1154
11 9	1 18 59.4226	1	22 38 46.806	3 36 18.15	4	9007	15843 S 2	EM	1148
11 9	1 18 59.4506	1	22 20 53.266	-35 51 9.70	4	9009	14405 S11	JV	1155
11 9	1 19 7.4223	1	22 38 13.047	2 54 25.32	4	9007	15843 S 3	EM	1149
11 9	1 19 15.4219	1	22 37 38.742	2 12 26.62	4	9007	15843 S 4	EM	1150
11 9	1 19 15.4505	1	22 19 42.364	-36 50 6.50	4	9009	14405 S13	JV	1156
11 9	1 19 23.4230	1	22 37 4.462	1 30 20.52	4	9007	15843 S 5	EM	1151
11 9	1 19 23.4506	1	22 19 6.707	-37 19 12.70	4	9009	14405 S14	JV	1157
11 9	1 19 31.4223	1	22 36 29.969	0 48 4.02	4	9007	15843 S 6	EM	1152
11 9	1 19 31.4507	1	22 18 30.315	-37 48 6.12	4	9009	14405 S15	JV	1158
11 9	1 19 39.4227	1	22 35 55.135	0 5 45.51	4	9007	15843 S 7	EM	1153
11 9	1 19 39.4507	1	22 17 53.645	-38 16 46.43	4	9009	14405 S16	JV	1159
11 10	2 7 55.4718	1	22 35 41.074	-28 33 28.00	4	9010	15652 S 2	AC	1289
11 10	2 8 3.4596	1	21 33 33.937	-11 42 19.02	4	9009	14425 S 2	AC	1284
11 10	2 8 3.4716	1	22 35 18.539	-29 0 33.67	4	9010	15652 S 3	JW	1290
11 10	2 8 11.4597	1	21 33 16.527	-12 15 0.53	4	9009	14425 S 3	AC	2075
11 10	2 8 11.4720	1	22 34 55.514	-29 27 25.35	4	9010	15652 S 4	JW	1291
11 10	2 8 19.4595	1	21 32 59.114	-12 47 29.60	4	9009	14425 S 4	AC	1285
11 10	2 8 19.4721	1	22 34 32.598	-29 54 8.80	4	9010	15652 S 5	FI	1292
11 10	2 8 27.4595	1	21 32 41.102	-13 19 49.23	4	9009	14425 S 5	AC	1286
11 10	2 8 27.4722	1	22 34 9.605	-30 20 35.00	4	9010	15652 S 6	FI	1293

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	RMS S	STATION	FRAME NO.	MS	OBS.-NO.
1964 11 10	2 8 35.4599	1	21 32 23.078	-13 51 55.95	4	9009	14425 S 6	LR	3072
11 10	2 8 35.4722	1	22 33 46.261	-30 46 52.80	4	9010	15652 S 7	FI	1294
11 10	2 8 43.4598	1	21 32 4.623	-14 23 52.12	4	9009	14425 S 7	AC	1287
11 10	2 8 43.4724	1	22 33 22.821	-31 12 57.65	4	9010	15652 S 8	FI	1295
11 10	2 8 51.4599	1	21 31 45.972	-14 55 36.31	4	9009	14425 S 8	AC	1288
11 10	4 33 39.3892	1	23 2 15.160	28 34 49.11	4	9114	125 S 1	AC	9961
11 10	4 33 47.3898	1	23 2 7.071	27 53 47.99	4	9114	125 S 2	AC	373
11 10	4 33 55.3907	1	23 1 58.605	27 13 0.56	4	9114	125 S 3	AC	9963
11 10	4 34 3.3911	1	23 1 50.119	26 32 28.59	4	9114	125 S 4	AC	9964
11 10	4 34 11.3689	1	20 19 35.956	40 41 48.09	4	9010	15653 S 1	JV	9954
11 10	4 34 11.3919	1	23 1 41.740	25 52 15.08	4	9114	125 S 5	AC	9965
11 10	4 34 19.3688	1	20 20 42.126	40 16 8.70	4	9010	15653 S 2	JV	9955
11 10	4 34 19.3924	1	23 1 33.590	25 12 16.82	4	9114	125 S 6	AC	9966
11 10	4 34 27.3689	1	20 21 47.208	39 50 27.93	4	9010	15653 S 3	JV	9956
11 10	4 34 27.3930	1	23 1 25.368	24 32 42.24	4	9114	125 S 7	AC	374
11 10	4 34 43.3688	1	20 23 53.341	38 58 49.69	4	9010	15653 S 5	JV	9957
11 10	4 34 51.3690	1	20 24 54.718	38 32 53.12	4	9010	15653 S 6	JV	9958
11 10	4 34 55.3690	1	20 25 54.953	38 6 57.90	4	9010	15653 S 7	JV	9959
11 10	4 35 7.3693	1	20 26 53.695	37 40 57.96	4	9010	15653 S 8	JV	9960
11 11	0 13 54.4342	1	0 12 21.244	- 2 32 36.90	4	9009	14438 S 5	TA	8881
11 11	0 14 2.4343	1	0 11 47.797	- 3 15 23.90	4	9009	14438 S 6	TA	8882
11 11	0 14 10.4346	1	0 11 14.298	- 3 58 6.78	4	9009	14438 S 7	TA	8883
11 11	0 14 11.3429	1	0 50 28.000	-20 10 46.16	4	9010	15671 S 2	SW	8888
11 11	0 14 18.4346	1	0 10 41.286	- 4 40 42.09	4	9009	14438 S 8	TA	8884
11 11	0 14 19.3429	1	0 50 2.627	-20 40 25.81	4	9010	15671 S 3	AC	8889
11 11	0 14 26.4349	1	0 10 8.411	- 5 23 13.26	4	9009	14438 S 9	TA	8885
11 11	0 14 27.3430	1	0 49 37.263	-21 9 54.98	4	9010	15671 S 4	AC	8890
11 11	0 14 34.4351	1	0 9 35.704	- 6 5 33.97	4	9009	14438 S10	TA	8886
11 11	0 14 35.3430	1	0 49 12.437	-21 39 17.87	4	9010	15671 S 5	AC	8891
11 11	0 14 42.4351	1	0 9 3.300	- 6 47 45.76	4	9009	14438 S11	DK	8887
11 11	0 14 43.3429	1	0 48 47.604	-22 8 31.83	4	9010	15671 S 6	AC	8892
11 11	0 14 51.3428	1	0 48 23.247	-22 37 40.74	4	9010	15671 S 7	AC	8893
11 11	0 20 18.4304	1	23 48 15.562	-33 30 38.84	4	9009	14439 S 1	FI	1318
11 11	0 20 19.3932	1	23 23 25.833	24 35 46.28	4	9011	16878 S 1	JV	1325
11 11	0 20 26.4303	1	23 47 47.164	-34 3 58.68	4	9009	14439 S 2	FI	1319
11 11	0 20 27.3930	1	23 22 56.222	24 7 9.94	4	9011	16878 S 2	JV	1326
11 11	0 20 34.4304	1	23 47 18.777	-34 37 6.28	4	9009	14439 S 3	FI	1320
11 11	0 20 35.3933	1	23 22 31.675	23 38 21.57	4	9011	16878 S 3	JV	1327
11 11	0 20 42.4303	1	23 46 50.317	-35 10 0.47	4	9009	14439 S 4	FI	1321
11 11	0 20 43.3931	1	23 22 7.002	23 9 16.14	4	9011	16878 S 4	JV	1328
11 11	0 20 50.4306	1	23 46 22.104	-35 42 39.87	4	9009	14439 S 5	FI	2079
11 11	0 20 51.3933	1	23 21 42.315	22 40 0.81	4	9011	16878 S 5	JV	2080
11 11	0 20 56.4307	1	23 45 53.165	-36 15 7.92	4	9009	14439 S 6	JV	1323
11 11	0 20 59.3934	1	23 21 17.646	22 10 36.54	4	9011	16878 S 6	JV	1329
11 11	0 21 6.4303	1	23 45 24.873	-36 47 17.41	4	9009	14439 S 7	JV	1324

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.O) RMS D M S	STATION	FRAME NO.	MS	ORS.NO.
1964 11 11	C 21 7.3935	1	23 20 52.797	21 40 57.20	9011	16878 S 7	JV	1330
11 11	2 48 3.4241	1	20 43 28.303	42 37 39.16	9009	14443 S 3	HP	1338
11 11	2 48 11.3392	1	21 46 25.671	33 17 10.48	9010	15677 S 3	HP	1362
11 11	2 48 11.4240	1	20 44 9.293	42 8 41.55	9009	14443 S 4	HP	1339
11 11	2 48 19.3393	1	21 46 43.666	32 36 36.56	9010	15677 S 4	LR	1363
11 11	2 48 19.4064	1	0 35 49.435	27 48 54.92	9001	18594 S 3	DK	1331
11 11	2 48 19.4241	1	20 44 49.017	41 39 44.39	9009	14443 S 5	HP	1340
11 11	2 48 27.3396	1	21 47 0.884	31 56 1.27	9010	15677 S 5	LR	1364
11 11	2 48 27.4065	1	0 34 49.076	27 6 5.04	9001	18594 S 4	DK	1332
11 11	2 48 27.4239	1	20 45 28.252	41 10 37.89	9009	14443 S 6	JW	1341
11 11	2 48 35.3395	1	21 47 17.550	31 15 28.82	9010	15677 S 6	LR	1365
11 11	2 48 35.4064	1	0 33 49.645	26 23 21.99	9001	18594 S 5	DK	1333
11 11	2 48 35.4242	1	20 46 6.114	40 41 26.34	9009	14443 S 7	JW	1342
11 11	2 48 43.3399	1	21 47 33.446	30 34 55.78	9010	15677 S 7	LR	1366
11 11	2 48 43.4067	1	0 32 51.351	25 40 33.58	9001	18594 S 6	HP	1334
11 11	2 48 43.4242	1	20 46 43.487	40 12 7.45	9209	14443 S 8	JW	2081
11 11	2 48 51.3400	1	21 47 44.948	29 54 26.44	9010	15677 S 8	LR	1367
11 11	2 48 51.4067	1	0 31 53.832	24 57 44.69	9001	18594 S 7	HP	1335
11 11	2 48 51.4242	1	20 47 19.526	39 42 46.58	9009	14443 S 9	JW	1344
11 11	2 48 59.3403	1	21 48 3.609	29 13 56.53	9010	15677 S 9	LR	1368
11 11	2 48 59.4065	1	0 30 57.266	24 14 53.99	9001	18594 S 8	HP	1336
11 11	2 49 7.4066	1	0 30 1.811	23 32 4.63	9001	18594 S 9	HP	1337
11 13	1 46 11.6788	1	23 23 30.661	60 53 58.07	9010	15694 S 1	HP	9948
11 13	1 46 19.6791	1	23 22 45.414	60 14 22.73	9010	15694 S 2	HP	9949
11 13	1 46 25.4274	1	2 17 56.704	40 8 8.97	9001	18646 S 1	JW	9942
11 13	1 46 27.6791	1	23 22 1.077	59 34 33.39	9010	15694 S 3	HP	9950
11 13	1 46 33.4275	1	2 16 16.093	39 38 10.57	9001	18646 S 2	JW	9943
11 13	1 46 35.6793	1	23 21 17.807	58 54 27.47	9010	15694 S 4	HP	9951
11 13	1 46 41.4275	1	2 14 36.928	39 7 59.06	9001	18646 S 3	JW	9944
11 13	1 46 49.4275	1	2 12 58.814	38 37 31.05	9001	18646 S 4	JW	9945
11 13	1 46 51.6795	1	23 19 55.343	57 33 34.68	9010	15694 S 6	HP	9952
11 13	1 46 57.4274	1	2 11 22.663	38 6 49.70	9001	18646 S 5	JW	9946
11 13	1 46 59.6796	1	23 19 15.947	56 52 42.23	9010	15694 S 7	HP	822
11 13	1 47 5.4276	1	2 9 47.508	37 35 54.56	9001	18646 S 6	JW	9947
11 13	1 52 43.4151	1	21 35 20.550	41 26 52.90	9009	14473 S 4	FI	99
11 13	1 52 49.4274	1	1 19 9.767	13 14 48.71	9001	18648 S 5	SW	823
11 13	1 52 57.4274	1	1 18 17.869	12 39 35.48	9001	18648 S 6	SW	824
11 13	1 52 59.4154	1	21 35 50.663	40 14 49.12	9009	14473 S 6	FI	100
11 13	1 53 5.4272	1	1 17 26.694	12 4 21.00	9001	18648 S 7	SW	94
11 13	1 53 7.4155	1	21 36 4.634	39 38 39.60	9009	14473 S 7	JV	101
11 13	1 53 13.4274	1	1 16 36.062	11 29 13.60	9001	18648 S 8	FI	95
11 13	1 53 15.4157	1	21 36 18.283	39 2 18.67	9009	14473 S 8	JV	102
11 13	1 53 15.6873	1	22 58 34.793	21 58 21.82	9010	15696 S 1	JV	105
11 13	1 53 21.4273	1	1 15 46.139	10 54 4.14	9001	18648 S 9	FI	96
11 13	1 53 23.4157	1	21 36 31.131	38 25 50.07	9009	14473 S 9	JV	103

CATF Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 13	1 53 23.6877	1	22 58 14.740	21 12 58.30	9010	15696 S 2	JV	106
11 13	1 53 29.4272	1	1 14 56.719	10 18 57.76	9001	18648 S10	FI	97
11 13	1 53 31.4158	1	21 36 43.258	37 49 17.76	9009	14473 S10	JV	104
11 13	1 53 31.6879	1	22 57 54.887	20 27 44.92	9010	15696 S 3	JV	107
11 13	1 53 37.4270	1	1 14 7.952	9 43 52.95	9001	18648 S11	FI	98
11 13	1 53 39.4162	1	21 36 55.078	37 12 37.49	9009	14473 S11	JV	825
11 13	1 53 39.6883	1	22 57 34.984	19 42 33.82	9010	15696 S 4	AC	108
11 13	1 53 47.6886	1	22 57 15.521	18 57 31.22	9010	15696 S 5	AC	109
11 13	1 55 53.4286	1	1 1 42.410	- 0 2 11.62	9001	18649 S 3	DK	9451
11 13	1 55 55.4186	1	21 38 58.145	26 36 6.62	9009	14474 S 2	AC	9458
11 13	1 55 55.6909	1	22 52 10.428	7 18 34.90	9010	15697 S 2	FI	9465
11 13	1 56 1.4287	1	1 1 2.747	- 0 35 49.56	9001	18649 S 4	DK	9452
11 13	1 56 3.4186	1	21 39 1.493	25 58 5.84	9009	14474 S 3	AC	9459
11 13	1 56 3.6909	1	22 51 52.082	6 36 30.25	9010	15697 S 3	FI	9466
11 13	1 56 9.4287	1	1 0 23.883	- 1 9 21.88	9001	18649 S 5	DK	9453
11 13	1 56 11.4188	1	21 39 4.252	25 20 7.20	9009	14474 S 4	AC	9460
11 13	1 56 11.6913	1	22 51 33.130	5 54 43.16	9010	15697 S 4	FI	9467
11 13	1 56 17.4286	1	0 59 45.147	- 1 42 49.45	9001	18649 S 6	DK	9454
11 13	1 56 19.4192	1	21 39 6.418	24 42 6.82	9009	14474 S 5	AC	9461
11 13	1 56 19.6913	1	22 51 14.569	5 13 8.12	9010	15697 S 5	FI	9468
11 13	1 56 25.4285	1	0 59 7.060	- 2 16 10.01	9001	18649 S 7	DK	9455
11 13	1 56 27.6917	1	22 50 56.062	4 31 47.19	9010	15697 S 6	FI	9469
11 13	1 56 33.4284	1	0 58 29.204	- 2 49 22.2	9001	18649 S 8	DK	9456
11 13	1 56 35.4188	1	21 39 10.297	23 25 58.13	9009	14474 S 7	AC	9462
11 13	1 56 41.4284	1	0 57 51.891	- 3 22 27.64	9001	18649 S 9	DK	9457
11 13	1 56 43.4191	1	21 39 11.549	22 47 55.98	9009	14474 S 8	AC	9463
11 13	1 56 51.4194	1	21 39 12.467	22 9 50.36	9009	14474 S 9	AC	9464
11 14	C 12 51.4269	1	23 55 41.890	-16 30 17.11	9009	14487 S 1	FI	9826
11 14	C 12 59.4269	1	23 55 11.562	-17 10 8.48	9009	14487 S 2	DK	9827
11 14	C 13 7.4269	1	23 54 41.154	-17 49 50.67	9009	14487 S 3	DK	9828
11 14	C 13 15.4268	1	23 54 10.816	-18 29 17.37	9009	14487 S 4	DK	9829
11 14	C 13 23.4229	1	0 7 52.737	23 8 59.31	9007	15885 S 3	DK	9832
11 14	C 13 23.4269	1	23 53 40.700	-19 8 33.02	9009	14487 S 5	DK	9830
11 14	C 13 31.4225	1	0 7 25.056	22 34 24.59	9007	15885 S 4	DK	9833
11 14	C 13 31.4269	1	23 53 10.603	-19 47 32.25	9009	14487 S 6	DK	9831
11 14	C 13 39.4221	1	0 6 56.853	21 59 32.37	9007	15885 S 5	DK	370
11 14	C 13 47.4217	1	0 6 29.123	21 24 30.29	9007	15885 S 6	SW	371
11 14	C 13 55.4226	1	0 6 1.478	20 49 9.81	9007	15885 S 7	SW	9836
11 14	C 14 3.4227	1	0 5 33.920	20 13 31.68	9007	15885 S 8	SW	9837
11 14	C 14 11.4216	1	0 5 6.469	19 37 34.76	9007	15885 S 9	FI	826
11 14	15 10 3.4414	1	19 34 8.003	55 37 53.26	9008	20715 S 3	FI	1412
11 14	15 10 3.4715	1	3 54 44.132	59 42 17.96	9004	16328 S 6	SW	1406
11 14	15 10 11.4414	1	19 36 24.490	55 15 24.75	9008	20715 S 4	AC	1413
11 14	15 10 19.4414	1	19 38 38.563	54 52 45.62	9008	20715 S 5	AC	1414
11 14	15 10 19.4717	1	3 47 40.873	59 8 42.44	9004	16328 S 8	SW	1407

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 11 14	19 10 27.4415	1	19 40 49.801	54 29 51.58	4	9008	20715 S 6	AC	1415
11 14	19 10 27.4715	1	3 44 13.190	58 51 8.99	4	9004	16328 S 9	SW	1408
11 14	19 10 35.4417	1	19 42 58.158	54 6 43.64	4	9008	20715 S 7	AC	1416
11 14	19 10 35.4716	1	3 40 47.994	58 33 6.36	4	9004	16328 S10	SW	1409
11 14	19 10 43.4416	1	19 45 4.256	53 43 14.47	4	9008	20715 S 8	AC	2082
11 14	19 10 43.4717	1	3 37 25.705	58 14 31.99	4	9004	16328 S11	FI	1410
11 14	19 10 51.4716	1	3 34 6.035	57 55 30.33	4	9004	16328 S12	FI	1411
11 14	19 12 11.4725	1	3 3 19.999	54 19 8.23	4	9004	16329 S 4	AC	1417
11 14	19 12 19.4466	1	20 7 9.927	48 46 29.94	4	9008	20716 S 2	DK	1423
11 14	19 12 19.4725	1	3 0 30.797	53 55 1.55	4	9004	16329 S 5	AC	1418
11 14	19 12 27.4464	1	20 8 46.183	48 20 37.26	4	9008	20716 S 3	DK	1424
11 14	19 12 27.4727	1	2 57 43.868	53 30 31.29	4	9004	16329 S 6	AC	1419
11 14	19 12 35.4465	1	20 10 20.716	47 54 36.50	4	9008	20716 S 4	DK	1425
11 14	19 12 35.4727	1	2 55 0.168	53 5 34.94	4	9004	16329 S 7	DK	1420
11 14	19 12 43.4467	1	20 11 52.881	47 28 30.06	4	9008	20716 S 5	DK	1426
11 14	19 12 43.4728	1	2 52 18.936	52 40 12.94	4	9004	16329 S 8	DK	1421
11 14	19 12 51.4729	1	2 49 40.173	52 14 30.59	4	9004	16329 S 9	DK	1422
11 14	19 19 23.4727	1	1 22 31.710	25 22 14.96	4	9004	16331 S 5	JV	1481
11 14	19 19 39.4556	1	21 0 45.413	23 16 28.95	4	9008	20718 S 6	JV	1486
11 14	19 19 39.4727	1	1 20 14.948	24 8 9.87	4	9004	16331 S 7	JV	1482
11 14	19 19 47.4556	1	21 1 16.862	22 48 32.26	4	9008	20718 S 7	JV	1487
11 14	19 19 47.4727	1	1 19 7.818	23 31 0.72	4	9004	16331 S 8	JV	1483
11 14	19 19 55.4557	1	21 1 47.665	22 20 35.88	4	9008	20718 S 8	AC	1488
11 14	19 19 55.4727	1	1 18 2.135	22 53 53.84	4	9004	16331 S 9	JV	1484
11 14	19 20 3.4558	1	21 2 17.820	21 52 40.64	4	9008	20718 S 9	AC	1489
11 14	19 20 3.4727	1	1 16 57.306	22 16 47.14	4	9004	16331 S10	JV	1485
11 17	19 4 59.4728	1	4 34 55.029	63 12 49.27	4	9004	16354 S 4	WI	389
11 17	19 5 7.4622	1	19 16 55.635	57 45 11.61	4	9008	20775 S 7	KA	9490
11 17	19 5 7.4731	1	4 30 48.520	63 1 49.05	4	9004	16354 S 5	WI	9484
11 17	19 5 15.4624	1	19 19 30.433	57 25 19.77	4	9008	20775 S 8	LR	9491
11 17	19 5 15.4734	1	4 26 43.460	62 50 8.66	4	9004	16354 S 6	WI	9485
11 17	19 5 23.4626	1	19 22 3.418	57 5 10.04	4	9008	20775 S 9	LR	9492
11 17	19 5 23.4735	1	4 22 40.928	62 38 3.92	4	9004	16354 S 7	WI	9486
11 17	19 5 31.4622	1	19 24 33.031	56 44 41.59	4	9008	20775 S10	LR	9493
11 17	19 5 31.4734	1	4 18 40.432	62 25 20.63	4	9004	16354 S 8	KA	390
11 17	19 5 39.4625	1	19 27 0.033	56 23 56.33	4	9008	20775 S11	LR	9494
11 17	19 5 39.4736	1	4 14 42.154	62 12 2.64	4	9004	16354 S 9	KA	9488
11 17	19 5 47.4734	1	4 10 45.710	61 58 12.63	4	9004	16354 S10	KA	9489
11 18	C 45 55.5864	1	23 13 15.653	69 35 32.63	4	9009	14552 S 4	KA	1383
11 18	C 46 3.5868	1	23 12 35.460	69 6 14.29	4	9009	14552 S 5	KA	1384
11 18	C 46 11.4499	1	1 4 55.769	50 54 29.17	4	9010	15765 S 6	HP	1388
11 18	C 46 11.5869	1	23 11 56.632	68 36 42.32	4	9009	14552 S 6	KA	1385
11 18	C 46 19.4499	1	1 3 15.904	50 17 12.71	4	9010	15765 S 7	HP	1389
11 18	C 46 19.5868	1	23 11 19.024	68 6 58.10	4	9009	14552 S 7	KA	1386
11 18	C 46 27.4501	1	1 1 38.274	49 39 37.78	4	9010	15765 S 8	HP	1390

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	RMS S	STATION	FRAME NO.	MS	OBS.-NO.
1964 11 18	C 46 27.5870	1	23 10 42.614	67 36 58.31	4	9009	14552 S 8	KA	1387
11 18	C 46 35.4503	1	1 C 3.C12	49 1 46.73	4	9010	15765 S 9	HP	1391
11 18	C 46 43.4504	1	0 58 29.790	48 23 34.19	4	9010	15765 S 10	HP	1755
11 22	1 25 55.4283	1	2 2 30.667	40 8 44.43	4	9001	18845 S 3	JW	1392
11 22	1 35 55.4296	1	20 55 34.906	60 38 30.86	4	9009	14605 S 4	WC	1399
11 22	1 36 3.4284	1	2 C 52.938	39 35 26.67	4	9001	18845 S 4	JW	1393
11 22	1 36 11.4283	1	1 59 16.893	39 1 53.02	4	9001	18845 S 5	JW	1394
11 22	1 36 11.4298	1	20 58 2.432	59 43 5.80	4	9009	14605 S 6	WC	1400
11 22	1 36 15.5534	1	22 46 34.700	53 10 23.86	4	9010	15836 S 1	EM	9557
11 22	1 36 15.4297	1	20 59 13.031	59 15 4.94	4	9009	14605 S 7	WC	1401
11 22	1 36 22.5537	1	22 46 31.054	52 28 38.67	4	9010	15836 S 2	EM	9558
11 22	1 36 27.4284	1	1 56 9.472	37 54 7.22	4	9001	18845 S 7	WC	1395
11 22	1 36 27.4299	1	21 0 21.469	58 46 51.61	4	9009	14605 S 8	WC	1402
11 22	1 36 31.5539	1	22 46 26.993	51 46 43.16	4	9010	15836 S 3	EM	9559
11 22	1 36 35.4301	1	21 1 27.641	58 18 31.14	4	9009	14605 S 9	WC	1403
11 22	1 36 35.5542	1	22 46 23.199	51 4 38.40	4	9010	15836 S 4	EM	382
11 22	1 36 43.4284	1	1 53 7.708	36 45 27.98	4	9001	18845 S 9	WC	1396
11 22	1 36 43.4303	1	21 2 32.153	57 49 52.67	4	9009	14605 S 10	WC	1404
11 22	1 36 47.5546	1	22 46 18.712	50 22 23.90	4	9010	15836 S 5	EM	9560
11 22	1 36 51.4283	1	1 51 39.100	36 10 52.03	4	9001	18845 S 10	WC	1397
11 22	1 36 51.4305	1	21 3 34.452	57 21 8.54	4	9009	14605 S 11	WC	1405
11 22	1 36 55.5546	1	22 46 14.559	49 39 58.47	4	9010	15836 S 6	EM	9561
11 22	1 36 59.4283	1	1 50 11.882	35 36 3.52	4	9001	18845 S 11	WC	1398
11 22	1 37 3.5551	1	22 46 9.993	48 57 22.50	4	9010	15836 S 7	EM	9562
11 22	1 38 59.4286	1	21 16 39.779	49 16 45.87	4	9009	14606 S 2	KA	1474
11 22	1 39 7.4287	1	21 17 17.729	48 45 6.48	4	9009	14606 S 3	KA	1475
11 22	1 39 15.4285	1	21 17 54.309	48 13 20.09	4	9009	14606 S 4	JW	1476
11 22	1 39 15.4390	1	1 28 38.103	25 20 22.26	4	9001	18846 S 1	LR	2083
11 22	1 39 23.4285	1	21 18 30.086	47 41 22.56	4	9009	14606 S 5	JW	1477
11 22	1 39 23.4375	1	1 27 31.910	24 43 8.84	4	9001	18846 S 2	WI	1468
11 22	1 39 23.7924	1	22 44 23.062	36 9 56.60	4	9010	15837 S 1	FI	1427
11 22	1 39 31.4285	1	21 19 4.728	47 9 15.64	4	9009	14606 S 6	JW	1478
11 22	1 39 31.4370	1	1 26 26.654	24 5 51.88	4	9001	18846 S 3	WI	1469
11 22	1 39 31.7926	1	22 44 15.634	35 25 21.91	4	9010	15837 S 2	FI	1428
11 22	1 39 39.4286	1	21 19 38.377	46 37 3.43	4	9009	14606 S 7	JW	1479
11 22	1 39 39.4364	1	1 25 22.095	23 28 31.58	4	9001	18846 S 4	WI	1470
11 22	1 39 39.7927	1	22 44 8.025	34 40 48.23	4	9010	15837 S 3	FI	1429
11 22	1 39 47.4290	1	21 20 11.017	46 4 36.92	4	9009	14606 S 8	JW	1480
11 22	1 39 47.7931	1	22 44 0.565	33 56 10.38	4	9010	15837 S 4	FI	1430
11 22	1 39 55.4355	1	1 23 16.045	22 13 41.35	4	9001	18846 S 6	WI	1471
11 22	1 39 55.7932	1	22 43 53.039	33 11 31.57	4	9010	15837 S 5	FI	1431
11 22	1 40 3.4355	1	1 22 14.423	21 36 8.42	4	9001	18846 S 7	WI	1472
11 22	1 40 3.7933	1	22 43 45.097	32 26 58.15	4	9010	15837 S 6	FI	1432
11 22	1 40 11.4355	1	1 21 13.478	20 58 36.12	4	9001	18846 S 8	KA	1473
11 22	1 40 11.7935	1	22 43 37.016	31 42 16.90	4	9010	15837 S 7	FI	1433

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 22	1 42 19.4328	1	21 27 50.954	35 26 18.95	4	9009	14607 S 1	WC	9182
11 22	1 42 27.4326	1	21 28 8.070	34 51 42.81	4	9009	14607 S 2	WC	9183
11 22	1 42 35.4305	1	1 5 7.717	9 43 38.12	4	9001	18847 S 1	KA	9175
11 22	1 42 35.4326	1	21 28 24.497	34 17 3.64	4	9009	14607 S 3	WC	9184
11 22	1 42 35.8600	1	22 40 55.377	18 26 31.83	4	9010	15838 S 1	EM	9563
11 22	1 42 43.4305	1	1 4 20.368	9 6 31.69	4	9001	18847 S 2	KA	9176
11 22	1 42 43.4328	1	21 28 40.428	33 42 13.24	4	9009	14607 S 4	WC	9185
11 22	1 42 43.8601	1	22 40 45.563	17 43 14.18	4	9010	15838 S 2	EM	9564
11 22	1 42 51.4305	1	1 3 33.715	8 29 33.16	4	9001	18847 S 3	KA	9177
11 22	1 42 51.4326	1	21 28 55.671	33 7 29.47	4	9009	14607 S 5	WC	9186
11 22	1 42 51.8603	1	22 40 35.465	17 0 5.85	4	9010	15838 S 3	EM	9565
11 22	1 42 53.4304	1	1 2 47.533	7 52 34.48	4	9001	18847 S 4	KA	9178
11 22	1 42 59.4325	1	21 29 10.417	32 32 37.20	4	9009	14607 S 6	WC	9187
11 22	1 42 59.8604	1	22 40 25.283	16 17 5.77	4	9010	15838 S 4	EM	9566
11 22	1 43 7.4306	1	1 2 1.958	7 15 45.04	4	9001	18847 S 5	KA	9179
11 22	1 43 7.8606	1	22 40 15.011	15 34 16.78	4	9010	15838 S 5	EM	9567
11 22	1 43 15.4306	1	1 1 16.780	6 38 58.83	4	9001	18847 S 6	KA	383
11 22	1 43 15.4326	1	21 29 37.877	31 22 35.92	4	9009	14607 S 8	WC	9188
11 22	1 43 15.8607	1	22 40 4.742	14 51 37.95	4	9010	15838 S 6	TA	9568
11 22	1 43 23.4308	1	1 0 32.185	6 2 17.53	4	9001	18847 S 7	KA	9181
11 22	1 43 23.8610	1	22 39 54.144	14 9 7.26	4	9010	15838 S 7	TA	384
11 22	1 49 23.4379	1	21 32 5.905	4 31 59.79	4	9009	14609 S 1	SW	1497
11 22	1 49 31.4335	1	0 33 45.992	-19 30 6.55	4	9001	18848 S 1	AC	1490
11 22	1 49 31.4376	1	21 32 0.695	3 58 16.69	4	9009	14609 S 2	SW	1498
11 22	1 49 39.4335	1	0 33 18.280	-19 59 31.72	4	9001	18848 S 2	AC	1491
11 22	1 49 39.5636	1	22 29 39.846	-15 0 7.03	4	9010	15839 S 2	WC	1504
11 22	1 49 47.5636	1	22 29 24.171	-15 31 36.04	4	9010	15839 S 3	WC	1505
11 22	1 49 55.4336	1	0 32 23.660	-20 57 52.79	4	9001	18848 S 4	AC	1492
11 22	1 49 55.4373	1	21 31 42.643	2 17 55.60	4	9009	14609 S 5	WC	1499
11 22	1 49 55.5635	1	22 29 7.937	-16 2 51.07	4	9010	15839 S 4	WC	1506
11 22	1 50 3.4336	1	0 31 56.593	-21 26 44.88	4	9001	18848 S 5	AC	1493
11 22	1 50 3.4374	1	21 31 36.058	1 44 42.99	4	9009	14609 S 6	WC	1500
11 22	1 50 3.5639	1	22 28 51.659	-16 33 54.07	4	9010	15839 S 5	WC	1507
11 22	1 50 11.4335	1	0 31 29.769	-21 55 26.22	4	9001	18848 S 6	AC	1494
11 22	1 50 11.4375	1	21 31 29.291	1 11 35.83	4	9009	14609 S 7	WC	1501
11 22	1 50 11.5638	1	22 28 35.399	-17 4 40.46	4	9010	15839 S 6	FI	2084
11 22	1 50 19.4374	1	21 31 22.056	0 38 39.00	4	9009	14609 S 8	WC	1502
11 22	1 50 19.5640	1	22 28 18.901	-17 35 12.23	4	9010	15839 S 7	FI	2085
11 22	1 50 27.4334	1	0 30 36.603	-22 52 29.78	4	9001	18848 S 8	SW	1495
11 22	1 50 27.4375	1	21 31 14.640	0 5 44.44	4	9009	14609 S 9	WC	1503
11 22	1 50 27.5642	1	22 28 2.156	-18 5 33.91	4	9010	15839 S 8	FI	1510
11 22	1 50 35.4334	1	0 30 10.324	-23 20 41.89	4	9001	18848 S 9	SW	1496
11 24	8 54 39.2600	1	2 19 20.342	40 56 43.82	4	9005	11480 S 4	LR	9162
11 24	8 54 47.2601	1	2 17 34.634	40 25 19.20	4	9005	11480 S 5	LR	9163
11 24	8 54 55.2602	1	2 15 50.963	39 53 38.05	4	9005	11480 S 6	LR	9164

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 24	8 55 3.2604	1	2 14 8.877	39 21 47.56	4	9005	11480 S 7	LR	9165
11 24	8 55 19.2604	1	2 10 49.283	38 17 22.98	4	9005	11480 S 9	LR	9166
11 24	8 55 27.2604	1	2 9 11.535	37 44 52.47	4	9005	11480 S 10	LR	9167
11 24	8 55 35.2602	1	2 7 35.729	37 12 7.27	4	9005	11480 S 11	LR	9168
11 24	8 57 59.2637	1	1 42 40.313	26 55 18.79	4	9005	11481 S 3	KA	9328
11 24	8 58 7.2641	1	1 41 28.576	26 19 51.46	4	9005	11481 S 4	KA	9329
11 24	8 58 15.2640	1	1 40 17.870	25 44 20.71	4	9005	11481 S 5	KA	9330
11 24	8 58 31.2640	1	1 37 59.454	24 33 13.38	4	9005	11481 S 7	KA	388
11 24	8 58 39.2641	1	1 36 51.806	23 57 34.68	4	9005	11481 S 8	JW	9332
11 24	8 58 47.2642	1	1 35 44.903	23 21 47.49	4	9005	11481 S 9	JW	9333
11 24	8 58 55.2641	1	1 34 39.457	22 46 1.81	4	9005	11481 S 10	JW	9334
11 25	1 33 47.3155	1	22 38 11.320	45 53 34.71	4	9010	15845 S 6	JV	9584
11 25	1 33 54.7003	1	1 40 2.518	33 26 22.31	4	9001	18921 S 1	JV	9579
11 25	1 33 55.3157	1	22 38 12.544	45 10 42.98	4	9010	15845 S 7	AC	9585
11 25	1 34 2.7004	1	1 38 42.774	32 49 43.73	4	9001	18921 S 2	JV	9580
11 25	1 34 3.3161	1	22 38 13.878	44 27 41.29	4	9010	15845 S 8	AC	9586
11 25	1 34 10.7003	1	1 37 24.323	32 12 53.37	4	9001	18921 S 3	JV	9581
11 25	1 34 11.3162	1	22 38 14.836	43 44 34.53	4	9010	15845 S 9	AC	9587
11 25	1 34 18.7002	1	1 36 6.977	31 35 57.58	4	9001	18921 S 4	JV	9582
11 25	1 34 26.7004	1	1 34 51.027	30 58 48.63	4	9001	18921 S 5	JV	9583
11 29	5 8 56.7115	1	21 10 58.745	28 9 51.67	4	9001	19019 S 9	DK	9410
11 29	5 8 59.5384	1	1 44 37.460	58 16 10.75	4	9012	16001 S 10	DK	8898
11 29	5 9 4.7117	1	21 11 38.406	27 41 3.82	4	9001	19019 S 10	DK	8894
11 29	5 9 7.5387	1	1 42 31.634	57 46 18.72	4	9012	16001 S 11	HP	8899
11 29	5 9 12.7118	1	21 12 17.587	27 12 18.97	4	9001	19019 S 11	DK	9411
11 29	5 9 15.5388	1	1 40 29.278	57 16 7.56	4	9012	16001 S 12	HP	8900
11 29	5 9 23.5389	1	1 38 28.973	56 45 34.61	4	9012	16001 S 13	HP	8901
11 29	5 9 28.7126	1	21 13 33.229	26 14 52.09	4	9001	19019 S 13	DK	8896
11 29	5 9 31.5388	1	1 36 31.939	56 14 38.77	4	9012	16001 S 14	JV	8902
11 29	5 9 36.7130	1	21 14 9.789	25 46 17.56	4	9001	19019 S 14	DK	8897
11 29	18 54 35.4781	1	20 32 50.275	41 27 35.22	4	9008	20936 S 2	EM	1801
11 29	18 54 43.4778	1	20 34 2.043	41 2 50.12	4	9008	20936 S 3	EM	2569
11 29	18 54 43.9156	1	2 21 45.559	55 55 54.95	4	9004	16540 S 3	AC	1796
11 29	18 54 51.4779	1	20 35 12.090	40 39 4.19	4	9008	20936 S 4	EM	1803
11 29	18 54 51.9156	1	2 19 4.090	55 24 51.71	4	9004	16540 S 4	AC	1797
11 29	18 54 59.4776	1	20 36 20.978	40 13 12.37	4	9008	20936 S 5	EM	1804
11 29	18 54 59.9160	1	2 16 26.690	54 53 24.43	4	9004	16540 S 5	EM	1798
11 29	18 55 7.9160	1	2 13 52.571	54 21 29.32	4	9004	16540 S 6	EM	1799
11 29	18 55 15.9158	1	2 11 27.134	53 49 14.23	4	9004	16540 S 7	EM	1800
11 30	C 42 35.4135	1	23 30 19.039	- 7 57 22.51	4	9010	15907 S 4	EM	1376
11 30	C 42 42.4129	1	23 29 53.867	- 8 34 43.30	4	9010	15907 S 5	EM	1377
11 30	C 42 43.4496	1	22 35 39.509	44 50 32.80	4	9007	16151 S 4	EM	1369
11 30	C 42 51.4127	1	23 29 28.352	- 9 11 50.19	4	9010	15907 S 6	EM	1754
11 30	C 42 51.4490	1	22 35 23.106	44 24 0.39	4	9007	16151 S 5	EM	1370
11 30	C 42 55.4500	1	22 35 7.025	43 57 20.27	4	9007	16151 S 6	EM	1371

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 11 30	C 43 7.4173	1	23 28 38.363	-10 25 22.12	4	9010	15907 S 8	EM	1379
11 30	C 43 7.4496	1	22 34 50.678	43 30 30.76	4	9007	16151 S 7	EM	1372
11 30	C 43 15.4111	1	23 28 13.359	-11 1 43.33	4	9010	15907 S 9	SW	1380
11 30	C 43 15.4504	1	22 34 34.139	43 3 32.09	4	9007	16151 S 8	EM	1373
11 30	C 43 23.4112	1	23 27 48.565	-11 37 49.08	4	9010	15907 S10	SW	1381
11 30	C 43 23.4503	1	22 34 17.659	42 36 23.79	4	9007	16151 S 9	EM	1374
11 30	C 43 31.4112	1	23 27 23.771	-12 13 38.01	4	9010	15907 S11	SW	1382
11 30	C 43 31.4497	1	22 34 0.749	42 9 4.54	4	9007	16151 S10	EM	1375
11 30	C 46 11.5004	1	22 12 2.480	-4 34 13.17	4	9009	14746 S 3	HP	9290
11 30	C 46 19.4506	1	22 27 34.074	31 58 24.33	4	9007	16152 S 2	TA	9283
11 30	C 46 27.4504	1	22 27 13.708	31 27 31.97	4	9007	16152 S 3	TA	7284
11 30	C 46 27.5002	1	22 11 26.589	-5 49 9.75	4	9009	14746 S 5	HP	9291
11 30	C 46 35.4507	1	22 26 53.467	30 56 25.89	4	9007	16152 S 4	TA	9285
11 30	C 46 35.5005	1	22 11 8.350	-6 26 21.46	4	9009	14746 S 6	HP	9292
11 30	C 46 43.4498	1	22 26 32.896	30 25 16.10	4	9007	16152 S 5	TA	9286
11 30	C 46 43.5004	1	22 10 49.720	-7 3 23.60	4	9009	14746 S 7	HP	9293
11 30	C 46 51.4027	1	22 17 13.039	-25 46 44.23	4	9010	15908 S 2	EM	9297
11 30	C 46 51.4500	1	22 26 12.087	29 53 46.17	4	9007	16152 S 6	TA	9287
11 30	C 46 51.5007	1	22 10 31.161	-7 40 8.13	4	9009	14746 S 8	HP	9294
11 30	C 46 55.4024	1	23 16 48.477	-26 16 7.14	4	9010	15908 S 3	EM	9298
11 30	C 46 59.4501	1	22 25 51.196	29 22 11.04	4	9007	16152 S 7	TA	9288
11 30	C 46 59.5003	1	22 10 12.011	-8 16 47.27	4	9009	14746 S 9	HP	9295
11 30	C 47 7.4027	1	23 16 24.088	-26 45 17.49	4	9010	15908 S 4	EM	9299
11 30	C 47 7.4501	1	22 25 30.116	28 50 28.70	4	9007	16152 S 8	WC	3076
11 30	C 47 7.5007	1	22 9 52.852	-8 53 11.61	4	9009	14746 S10	EM	9296
11 30	C 47 15.4016	1	23 15 59.533	-27 14 13.72	4	9010	15908 S 5	EM	9300
11 30	C 47 23.4009	1	23 15 35.019	-27 42 58.93	4	9010	15908 S 6	EM	9301
11 30	C 47 31.4005	1	23 15 10.522	-28 11 27.29	4	9010	15908 S 7	EM	9302
11 30	C 8 36.5931	1	23 0 52.038	33 26 34.45	4	9012	16030 S 1	LR	9588
11 30	C 8 44.5931	1	23 0 35.395	32 42 22.36	4	9012	16030 S 2	LR	9589
11 30	C 9 0.5931	1	23 0 1.836	31 13 35.84	4	9012	16030 S 4	LR	9590
11 30	C 9 8.5930	1	22 59 45.142	30 29 6.99	4	9012	16030 S 5	LR	9591
11 30	C 9 16.5931	1	22 59 28.345	29 44 35.47	4	9012	16030 S 6	LR	9592
11 30	C 9 24.5931	1	22 59 11.782	29 0 4.27	4	9012	16030 S 7	LR	9593
11 30	C 9 40.5931	1	22 58 38.839	27 30 44.55	4	9012	16030 S 9	LR	9594
11 30	C 12 33.4752	1	22 52 37.585	11 33 6.75	4	9012	16031 S 4	SW	9544
11 30	C 12 41.4753	1	22 52 20.384	10 49 48.84	4	9012	16031 S 5	DK	3229
11 30	C 12 45.4751	1	22 52 3.338	10 6 36.27	4	9012	16031 S 6	SW	9546
11 30	C 13 5.4750	1	22 51 29.019	8 40 44.41	4	9012	16031 S 7	WC	3074
11 30	C 13 13.4754	1	22 51 11.822	7 58 4.34	4	9012	16031 S 9	WC	9547
11 30	C 13 21.4753	1	22 50 54.433	7 15 32.01	4	9012	16031 S11	HP	9548
11 30	C 13 29.4755	1	22 50 37.072	6 33 12.57	4	9012	16031 S12	HP	9549
12 1	C 13 55.4544	1	21 40 23.585	34 49 5.41	4	9007	16184 S 3	VD	8845
12 1	C 13 2.4140	1	0 25 0.524	-18 46 49.59	4	9001	19078 S 3	VD	8840
12 1	C 13 3.4182	1	22 21 38.883	-12 32 45.10	4	9010	15925 S 5	VD	8849

CATF Y M D	TIME (A-I) H M S	RMS PS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 12 1	1 38 10.4141	1	0 24 32.514	-19 17 10.08	4	9001	19078 S 4	VD	8841
12 1	1 38 11.4181	1	22 21 27.119	-13 3 38.19	4	9010	15925 S 6	VD	8850
12 1	1 38 11.4561	1	21 40 14.538	33 57 28.50	4	9007	16184 S 4	VD	8846
12 1	1 38 18.4141	1	0 24 4.927	-19 47 22.39	4	9001	19078 S 5	VD	8842
12 1	1 38 19.4182	1	22 21 14.972	-13 34 22.43	4	9010	15925 S 7	VD	8851
12 1	1 38 26.4141	1	0 23 37.096	-20 17 22.44	4	9001	19078 S 6	VD	8843
12 1	1 38 27.4183	1	22 21 2.449	-14 4 49.73	4	9010	15925 S 8	VD	8852
12 1	1 38 27.4527	1	21 40 4.266	33 5 24.23	4	9007	16184 S 5	VD	8847
12 1	1 38 34.4142	1	0 23 9.818	-20 47 4.79	4	9001	19078 S 7	VD	8844
12 1	1 38 35.4185	1	22 20 49.828	-14 35 1.88	4	9010	15925 S 9	VD	8853
12 1	1 38 42.4185	1	22 20 37.255	-15 5 4.10	4	9010	15925 S10	VD	8854
12 1	1 38 43.4536	1	21 39 53.134	32 13 1.03	4	9007	16184 S 6	VD	8848
12 1	1 40 19.4176	1	22 17 49.631	-20 49 28.78	4	9010	15926 S 3	PG	8555
12 1	1 40 19.4580	1	21 38 20.861	26 51 24.78	4	9007	16185 S 3	PG	8566
12 1	1 40 26.4102	1	0 17 4.526	-27 24 18.76	4	9001	19079 S 2	PG	8561
12 1	1 40 27.4176	1	22 17 34.525	-21 16 50.42	4	9010	15926 S 4	PG	8556
12 1	1 40 34.4104	1	0 16 39.482	-27 51 20.84	4	9001	19079 S 3	PG	8562
12 1	1 40 35.4177	1	22 17 19.275	-21 44 2.32	4	9010	15926 S 5	PG	8557
12 1	1 40 35.4579	1	21 38 1.409	25 56 37.84	4	9007	16185 S 4	PG	8567
12 1	1 40 42.4103	1	0 16 14.785	-28 18 10.43	4	9001	19079 S 4	PG	347
12 1	1 40 43.4177	1	22 17 3.706	-22 11 1.85	4	9010	15926 S 6	PG	8558
12 1	1 40 50.4103	1	0 15 49.739	-28 44 53.85	4	9001	19079 S 5	PG	8563
12 1	1 40 51.4178	1	22 16 47.809	-22 37 51.02	4	9010	15926 S 7	PG	8559
12 1	1 40 51.4568	1	21 37 40.962	25 1 35.07	4	9007	16185 S 5	PG	8568
12 1	1 40 58.4103	1	0 15 25.481	-29 11 19.95	4	9001	19079 S 6	PG	8564
12 1	1 40 59.4179	1	22 16 31.885	-23 4 30.55	4	9010	15926 S 8	PG	8560
12 1	1 41 6.4101	1	0 15 0.985	-29 37 43.21	4	9001	19079 S 7	PG	8565
12 1	1 41 7.4573	1	21 37 19.247	24 6 11.10	4	9007	16185 S 6	PG	8569
12 1	1 41 14.4103	1	0 14 36.572	-30 3 50.38	4	9001	19079 S 8	PG	9376
12 1	1 41 23.4581	1	21 36 56.425	23 10 31.52	4	9007	16185 S 7	PG	9377
12 1	1 41 35.4589	1	21 36 32.408	22 14 33.60	4	9007	16185 S 8	PG	9378
12 1	1 41 55.4600	1	21 36 7.310	21 18 17.82	4	9007	16185 S 9	PG	8570
12 2	5 1 50.7423	1	20 50 56.830	39 30 14.89	4	9001	19116 S 4	LM	8411
12 2	5 1 55.4038	1	2 48 5.904	69 49 40.54	4	9012	16076 S 4	LM	8418
12 2	5 1 58.7422	1	20 52 1.664	39 2 13.98	4	9001	19116 S 5	LM	8412
12 2	5 2 3.4038	1	2 44 14.290	69 29 22.19	4	9012	16076 S 5	LM	8419
12 2	5 2 6.7424	1	20 53 5.631	38 34 14.32	4	9001	19116 S 6	LM	8413
12 2	5 2 14.7424	1	20 54 8.661	38 6 7.15	4	9001	19116 S 7	LM	8687
12 2	5 2 19.4041	1	2 36 45.789	68 47 14.30	4	9012	16076 S 7	LM	8420
12 2	5 2 22.7423	1	20 55 9.751	37 37 59.48	4	9001	19116 S 8	LM	8688
12 2	5 2 27.4040	1	2 33 10.515	68 25 31.61	4	9012	16076 S 8	LM	8421
12 2	5 2 30.7424	1	20 56 9.910	37 9 45.87	4	9001	19116 S 9	LM	8416
12 2	5 2 35.4040	1	2 29 40.331	68 3 19.59	4	9012	16076 S 9	LM	348
12 2	5 2 38.7426	1	20 57 9.006	36 41 39.76	4	9001	19116 S10	LM	8417
12 2	5 2 42.4042	1	2 26 16.710	67 40 41.85	4	9012	16076 S10	LM	8423

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS-NO.
1964 12 2	5 2 51.4043	1	2 22 56.950	67 17 32.00	9012	16076 S11	LM	8424
12 2	18 47 47.8053	1	20 2 59.029	49 34 32.87	9008	21020 S 6	VD	8927
12 2	18 47 48.1947	1	3 45 6.737	67 10 4.52	9004	16602 S 7	VD	8922
12 2	18 47 55.8053	1	20 4 44.214	49 12 47.78	9008	21020 S 7	VD	9374
12 2	18 47 56.1947	1	3 40 21.286	66 51 32.74	9004	16602 S 8	VD	8923
12 2	18 48 3.8053	1	20 6 27.542	48 50 49.63	9008	21020 S 8	VD	9375
12 2	18 48 4.1948	1	3 35 41.794	66 32 18.83	9004	16602 S 9	VD	9372
12 2	18 48 11.8053	1	20 8 8.516	48 28 46.16	9008	21020 S 9	VD	8928
12 2	18 48 12.1947	1	3 31 7.692	66 12 24.17	9004	16602 S10	VD	9373
12 2	18 48 19.8054	1	20 9 48.001	48 6 29.21	9008	21020 S10	VD	8929
12 2	18 48 20.1946	1	3 26 39.345	65 51 51.82	9004	16602 S11	VD	8924
12 2	18 48 27.8055	1	20 11 25.703	47 44 9.99	9008	21020 S11	VD	8930
12 2	18 48 28.1947	1	3 22 16.994	65 30 36.19	9004	16602 S12	VD	8925
12 2	18 48 35.8059	1	20 13 1.894	47 21 36.60	9008	21020 S12	VD	8931
12 2	18 48 36.1948	1	3 18 0.347	65 8 46.77	9004	16602 S13	VD	8926
12 2	18 51 7.8097	1	20 38 31.266	39 52 34.32	9008	21021 S 4	VP	8296
12 2	18 51 8.1863	1	2 13 15.571	56 26 46.56	9004	16603 S 4	VP	8289
12 2	18 51 15.8095	1	20 39 38.296	39 28 7.69	9008	21021 S 5	VP	8297
12 2	18 51 16.1864	1	2 10 36.405	55 54 33.13	9004	16603 S 5	VP	8290
12 2	18 51 23.8096	1	20 40 44.018	39 3 35.32	9008	21021 S 6	VP	8298
12 2	18 51 24.1865	1	2 8 1.765	55 21 51.32	9004	16603 S 6	VP	8291
12 2	18 51 31.8094	1	20 41 48.137	38 38 59.21	9008	21021 S 7	VP	8299
12 2	18 51 32.1864	1	2 5 30.803	54 48 43.05	9004	16603 S 7	VP	8292
12 2	18 51 39.8098	1	20 42 51.347	38 14 25.20	9008	21021 S 8	VP	8300
12 2	18 51 40.1866	1	2 3 3.304	54 15 11.86	9004	16603 S 8	VP	8293
12 2	18 51 47.8097	1	20 43 53.760	37 49 42.02	9008	21021 S 9	VP	8301
12 2	18 51 48.1867	1	2 0 39.343	53 41 19.87	9004	16603 S 9	VP	8294
12 2	18 51 55.8099	1	20 44 54.751	37 24 53.04	9008	21021 S10	VP	8302
12 2	18 51 56.1867	1	1 58 18.538	53 7 4.64	9004	16603 S10	VP	8295
12 3	6 9 47.4950	1	22 45 35.184	6 22 11.66	9012	16108 S 7	VD	9126
12 3	6 9 55.4950	1	22 45 19.874	5 40 41.17	9012	16108 S 8	VD	9127
12 3	6 10 3.4949	1	22 45 4.454	4 59 20.07	9012	16108 S 9	VD	9128
12 3	6 10 11.4949	1	22 44 48.836	4 18 9.70	9012	16108 S10	VD	9129
12 3	6 10 19.4949	1	22 44 33.272	3 37 16.18	9012	16108 S11	VD	9130
12 3	6 10 27.4950	1	22 44 17.377	2 56 33.08	9012	16108 S12	VD	9131
12 3	6 10 35.4950	1	22 44 1.674	2 15 58.60	9012	16108 S13	VD	9132
12 4	1 24 58.4010	1	1 7 52.549	24 15 38.35	9001	19123 S 4	PK	8932
12 4	1 24 59.4561	1	22 22 27.861	31 17 59.66	9010	15948 S11	PG	9379
12 4	1 25 6.4011	1	1 6 53.312	23 34 56.46	9001	19123 S 5	PK	8933
12 4	1 25 7.4564	1	22 22 35.592	30 36 5.92	9010	15948 S12	PG	9380
12 4	1 25 7.4789	1	21 14 35.900	41 16 5.81	9009	14860 S 7	PG	8654
12 4	1 25 14.4012	1	1 5 54.796	22 54 12.31	9001	19123 S 6	PK	8934
12 4	1 25 15.4568	1	22 22 42.944	29 54 10.47	9010	15948 S13	PG	8941
12 4	1 25 15.4790	1	21 15 8.946	40 45 32.90	9009	14860 S 8	PG	8655
12 4	1 25 22.4012	1	1 4 57.245	22 13 28.36	9001	19123 S 7	PK	8935

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.-NO.
1964 12 4	1 25 23.4569	1	22 22 49.819	29 12 19.48	9010	15948 S14	PG	8942
12 4	1 25 23.4790	1	21 15 41.180	40 14 55.38	9009	14860 S 9	PG	8656
12 4	1 25 30.4012	1	1 4 C.267	21 32 43.59	9001	19123 S 8	PK	8936
12 4	1 25 31.4574	1	22 22 56.294	28 30 28.78	9010	15948 S15	PG	8943
12 4	1 25 31.4790	1	21 16 12.728	39 44 9.87	9009	14860 S10	PG	8657
12 4	1 25 38.4014	1	1 3 4.506	20 51 55.98	9001	19123 S 9	PK	8937
12 4	1 25 39.4577	1	22 23 2.388	27 48 41.76	9010	15948 S16	PG	8944
12 4	1 25 39.4791	1	21 16 43.573	39 13 22.16	9009	14860 S11	PG	8658
12 4	1 25 46.4015	1	1 2 9.447	20 11 17.59	9001	19123 S10	PK	8938
12 4	1 25 47.4582	1	22 23 7.776	27 6 57.49	9010	15948 S17	PG	8945
12 4	1 25 47.4793	1	21 17 13.067	38 42 24.31	9009	14860 S12	PG	8659
12 4	1 25 55.4796	1	21 17 42.346	38 11 25.24	9009	14860 S13	PG	8660
12 4	7 0 19.5051	1	21 47 9.300	20 41 51.89	9012	16121 S 6	LL	9228
12 4	7 0 27.5052	1	21 47 19.717	20 5 46.62	9012	16121 S 7	LL	345
12 4	7 0 35.5052	1	21 47 29.965	19 29 41.23	9012	16121 S 8	LL	9230
12 4	7 0 43.5052	1	21 47 39.663	18 53 44.58	9012	16121 S 9	LL	9231
12 4	7 0 51.5053	1	21 47 49.150	18 17 48.54	9012	16121 S10	LL	9232
12 4	7 0 59.5054	1	21 47 57.691	17 41 59.16	9012	16121 S11	LL	346
12 4	7 1 7.5059	1	21 48 6.099	17 6 17.25	9012	16121 S12	LL	9234
12 4	7 3 31.5002	1	21 49 29.890	6 39 20.17	9012	16122 S 1	LM	8608
12 4	7 3 35.5003	1	21 49 30.995	6 5 37.38	9012	16122 S 2	LM	8609
12 4	7 3 47.5002	1	21 49 31.860	5 31 59.97	9012	16122 S 3	LM	8610
12 4	7 3 55.5001	1	21 49 32.302	4 58 29.91	9012	16122 S 4	LM	8611
12 4	7 4 3.5053	1	21 49 32.521	4 25 11.26	9012	16122 S 5	LM	8612
12 4	7 4 11.5003	1	21 49 32.378	3 51 59.52	9012	16122 S 6	LM	8613
12 4	7 4 19.5005	1	21 49 32.115	3 18 53.07	9012	16122 S 7	LM	8614
12 5	18 43 31.4476	1	4 2 56.757	69 39 55.46	9004	16684 S 3	LL	9249
12 5	18 43 39.4475	1	3 57 29.783	69 24 C.52	9004	16684 S 4	LL	9250
12 5	18 43 47.4476	1	3 52 8.033	69 7 14.72	9004	16684 S 5	LL	9251
12 5	18 43 47.9471	1	20 4 5.157	49 26 38.46	9008	21086 S 8	LL	9242
12 5	18 43 55.4476	1	3 46 54.333	68 49 42.60	9004	16684 S 6	LL	9252
12 5	18 43 55.9472	1	20 5 50.322	49 5 23.29	9004	21086 S 9	LL	9243
12 5	18 44 3.4476	1	3 41 45.554	68 31 29.70	9004	16684 S 7	LL	9253
12 5	18 44 3.9471	1	20 7 32.790	48 43 55.57	9004	21086 S10	LL	9244
12 5	18 44 11.4476	1	3 36 44.123	68 12 29.92	9004	16684 S 8	LL	9254
12 5	18 44 11.9473	1	20 9 13.999	48 22 21.97	9008	21086 S11	LL	9245
12 5	18 44 19.4476	1	3 31 49.436	67 52 44.61	9004	16684 S 9	LL	9255
12 5	18 44 19.9474	1	20 10 53.547	48 0 32.50	9008	21086 S12	LL	9246
12 5	18 44 27.9476	1	20 12 30.949	47 38 40.71	9008	21086 S13	LL	9247
12 5	18 44 35.9477	1	20 14 6.806	47 16 42.78	9008	21086 S14	LL	9248
12 5	18 46 52.0840	1	20 37 24.638	40 44 38.73	9008	21087 S 2	YK	8397
12 5	18 47 0.0840	1	20 38 34.299	40 20 44.32	9008	21087 S 3	YK	8398
12 5	18 47 7.4452	1	2 12 27.717	58 35 30.37	9004	16685 S 4	PK	8404
12 5	18 47 8.0838	1	20 39 42.412	39 56 53.66	9008	21087 S 4	YK	8399
12 5	18 47 15.4452	1	2 9 40.026	58 3 16.07	9004	16685 S 5	PK	8405

Satellite 1961 Alpha Delta 1

5 December 1964

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A.-(1950.0) H M S	DECL.-(1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 12 5	18 47 16.0837	1	20 40 49.702	39 32 58.68	4	9008	21087 S 5	YK	8400
12 5	18 47 23.4451	1	2 6 56.543	57 30 34.89	4	9004	16685 S 6	PK	8406
12 5	18 47 24.0836	1	20 41 55.854	39 8 52.41	4	9008	21087 S 6	YK	8401
12 5	18 47 31.4451	1	2 4 17.400	56 57 27.23	4	9004	16685 S 7	PK	8407
12 5	18 47 32.0837	1	20 43 0.416	38 44 51.20	4	9008	21087 S 7	YK	8402
12 5	18 47 39.4450	1	2 1 42.631	56 23 53.82	4	9004	16685 S 8	PK	8408
12 5	18 47 40.0839	1	20 44 4.636	38 20 41.29	4	9008	21087 S 8	YK	8403
12 5	18 47 47.4449	1	1 59 11.264	55 49 59.73	4	9004	16685 S 9	PK	8409
12 5	18 47 55.4449	1	1 56 44.466	55 15 37.51	4	9004	16685 S10	PK	8410

CATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	STATION	FRAME NO.	MS	OBS.NO.
1962	10 30	C 20 14.2213	1	20 36 28.039	9011	7207 S 2	LT	5260
	10 30	C 20 18.2241	1	21 23 48.962	9007	7428 S 3	BN	5257
	10 30	C 20 26.2211	1	20 40 45.575	9011	7207 S 4	YK	1492
	10 30	C 20 26.2240	1	21 30 58.479	9007	7428 S 4	BN	5258
	10 30	C 20 34.2211	1	20 45 4.553	9011	7207 S 6	YK	1493
	10 30	C 20 34.2235	1	21 38 7.538	9007	7428 S 5	BN	5259
	10 31	C 1 22.2133	1	23 14 58.519	9007	7449 S 9	BN	5255
	10 31	C 1 22.2175	1	21 44 49.640	9011	7234 S 2	LT	5261
	10 31	C 1 30.2125	1	23 20 44.888	9007	7449 S10	BN	5256
	10 31	C 1 30.2175	1	21 49 18.199	9011	7234 S 4	LT	5262
1963	8 31	C 1 38.2122	1	23 26 26.267	9007	7449 S11	BN	5780
	10 31	C 1 39.2174	1	21 53 46.586	9011	7234 S 6	PG	2853
	8 14	22 52 10.5371	1	19 14 52.243	9008	13501 S 2	FI	1523
	8 14	22 52 10.5581	1	23 49 38.404	9004	9861 S 1	SU	669
	8 14	22 52 18.5372	1	19 16 26.551	9008	13501 S 3	SU	8527
	8 14	22 52 18.5583	1	23 51 13.050	9004	9861 S 2	SU	670
	8 14	22 52 26.5372	1	19 18 1.638	9008	13501 S 4	FI	1524
	8 14	22 52 26.5579	1	23 52 47.151	9004	9861 S 5	SE	1272
	8 14	22 52 34.5374	1	19 19 36.803	9008	13501 S 5	SU	8528
	8 14	22 52 34.5581	1	23 54 20.922	9004	9861 S 4	SU	671
1963	8 14	22 52 42.5581	1	23 55 53.742	9004	9861 S 5	SU	672
	8 18	21 24 46.5646	1	22 38 52.491	9004	9938 S 3	SE	1267
	8 18	21 24 2.5456	1	18 14 50.285	9008	13573 S 1	SU	681
	8 18	21 24 2.5646	1	22 41 46.833	9004	9938 S 4	SU	673
	8 18	21 24 10.5454	1	18 16 26.576	9008	13573 S 3	TA	2439
	8 18	21 24 18.5455	1	18 18 3.489	9008	13573 S 3	SU	682
	8 18	21 24 18.5645	1	22 44 39.635	9004	9938 S 5	SU	674
	8 18	21 24 26.5459	1	18 19 40.604	9008	13573 S 5	TA	1422
	8 18	21 24 34.5460	1	18 21 17.861	9008	13573 S 5	SU	683
	8 18	21 24 34.5642	1	22 47 30.280	9004	9938 S 6	SU	675
1963	8 18	21 24 42.5462	1	18 22 55.800	9008	13573 S 6	SU	684
	8 18	21 24 50.5643	1	22 50 19.213	9004	9938 S 7	SU	676
	8 18	21 25 6.5640	1	22 53 6.475	9004	9938 S 8	SE	1268
	8 19	5 20 58.6207	1	22 37 40.677	9001	11386 S12	SU	8510
	8 19	5 21 2.6206	1	22 38 37.228	9001	11386 S13	SU	8511
	8 19	5 21 6.6207	1	22 39 33.646	9001	11386 S14	SU	8512
	8 19	5 21 10.6207	1	22 40 29.906	9001	11386 S15	SU	8513
	8 19	5 21 14.5521	1	18 40 30.909	9009	8809 S 5	KA	1536
	8 19	5 21 14.6206	1	22 41 26.108	9001	11386 S16	KA	1172
	8 19	5 21 22.5520	1	18 42 26.464	9009	8809 S 6	SU	8518
1963	8 19	5 21 30.5523	1	18 44 23.021	9009	8809 S 7	SU	8519
	8 19	5 21 38.5525	1	18 46 19.653	9009	8809 S 8	SU	8520
	8 19	5 21 46.5524	1	18 48 17.533	9009	8809 S 9	SU	8521
	8 21	20 20 42.5646	1	22 23 19.116	9004	9998 S 1	SU	677
	8 21	20 20 50.5644	1	22 24 31.522	9004	9998 S 1	AM	1410
	8 21	20 20 50.5644	1	22 24 31.522	9004	9998 S 1	AM	1410

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1963	8 21	20 20 58.5645	22 25 43.614	21 9 8.46	4	9004	9998 S 3	SU	678
	8 21	20 21 6.5643	22 26 55.820	20 50 53.33	4	9004	9998 S 3	AM	1411
	8 21	20 21 14.5510	18 17 29.347	32 21 57.53	4	9008	13630 S 1	SU	685
	8 21	20 21 14.5644	22 28 7.257	20 32 36.39	4	9004	9998 S 5	SU	679
	8 21	20 21 22.5510	18 19 17.495	32 11 51.87	4	9008	13630 S 2	AC	1425
	8 21	20 21 22.5643	22 29 18.479	20 14 18.23	4	9004	9998 S 6	SU	680
	8 21	20 21 30.5514	18 21 5.860	32 1 35.49	4	9008	13630 S 3	SU	686
	8 21	20 21 38.5514	18 22 54.236	31 51 4.27	4	9008	13630 S 4	AC	1426
	8 21	20 21 46.5515	18 24 43.386	31 40 21.00	4	9008	13630 S 5	SU	687
	8 21	20 21 54.5517	18 26 32.768	31 29 26.52	4	9008	13630 S 6	SU	688
	8 24	3 37 30.5630	19 35 5.180	48 59 21.48	4	9009	8877 S 2	SU	8522
	8 24	3 37 38.5629	19 37 33.294	48 48 7.66	4	9009	8877 S 3	BM	1528
	8 24	3 37 46.5611	22 43 32.794	15 10 15.06	4	9001	11416 S 5	SU	8514
	8 24	3 37 46.5629	19 40 1.716	48 36 37.05	4	9009	8877 S 4	SU	8523
	8 24	3 37 54.5609	22 44 47.619	14 49 2.85	4	9001	11416 S 6	NG	1210
	8 24	3 37 54.5626	19 42 30.621	48 24 54.58	4	9009	8877 S 5	SU	8524
	8 24	3 38 2.5610	22 46 2.000	14 27 58.09	4	9001	11416 S 7	SU	8515
	8 24	3 38 2.5630	19 44 59.285	48 12 49.93	4	9009	8877 S 6	SU	8525
	8 24	3 38 10.5611	22 47 16.156	14 6 54.34	4	9001	11416 S 8	SU	8516
	8 24	3 38 10.5633	19 47 28.546	48 5 33.34	4	9009	8877 S 7	BM	1529
	8 24	3 38 18.5606	22 48 30.016	13 45 48.11	4	9001	11416 S 9	NG	1211
	8 24	3 38 18.5632	19 49 58.054	47 47 54.83	4	9009	8877 S 8	SU	8526
	8 24	3 38 26.5613	22 49 43.819	13 24 43.87	4	9001	11416 S 10	SU	8517

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950 G.) H M S	DECL. (1950 G.) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1962 11 17	4 36 47.2181	1	4 54 42.209	32 54 9.82	3	9001	8224 S 5	HB	3021
11 17	4 36 47.2203	1	21 37 0.103	33 19 54.00	3	9010	7882 S 4	HB	3011
11 17	4 36 52.8109	1	5 0 2.870	33 19 45.28	3	9001	8224 S 5	HB	3022
11 17	4 36 52.8131	1	21 37 3.771	38 31 47.82	3	9010	7882 S 4	HB	3012
11 17	4 36 58.4038	1	5 5 19.502	33 43 45.58	3	9001	8224 S 5	HB	3023
11 17	4 36 58.4059	1	21 37 6.217	39 28 16.25	3	9010	7882 S 4	HB	3013
11 17	4 37 3.9966	1	5 10 31.929	34 6 22.40	3	9001	8224 S 5	HB	3024
11 17	4 37 3.9987	1	21 37 7.036	40 25 20.19	3	9010	7882 S 4	HB	3014
11 17	4 37 9.5895	1	5 15 40.674	34 27 13.79	3	9001	8224 S 5	HB	3025
11 21	5 40 10.0421	1	12 8 10.646	29 17 38.95	3	9001	8264 S 6	HB	3081
11 21	5 40 15.6349	1	12 8 20.500	28 30 58.48	3	9001	8264 S 6	HB	3082
11 21	5 40 21.2279	1	12 8 31.596	27 44 51.29	3	9001	8264 S 6	HB	3083
11 21	5 40 26.8208	1	12 8 43.126	26 59 31.00	3	9001	8264 S 6	HB	3084
11 21	5 40 32.4136	1	12 8 54.900	26 14 36.21	3	9001	8264 S 6	HB	3085
11 21	11 26 25.8739	1	3 4 26.933	50 35 55.28	3	9001	8268 S 6	MJ	3091
11 21	11 26 31.4666	1	3 9 25.731	50 49 21.38	3	9001	8268 S 6	MJ	3092
11 21	11 26 37.0594	1	3 14 33.959	51 2 15.53	3	9001	8268 S 6	MJ	3093
11 21	11 26 42.6521	1	3 19 52.508	51 14 41.32	3	9001	8268 S 6	MJ	3094
11 21	11 26 48.2448	1	3 25 22.036	51 26 20.21	3	9001	8268 S 6	MJ	3095
11 21	15 10 8.6862	1	11 3 17.458	33 0 30.70	3	9012	8264 S 6	CB	3121
11 21	15 10 14.2835	1	11 6 45.029	31 31 21.83	3	9012	8264 S 6	CB	3122
11 21	15 10 19.8764	1	11 10 5.504	30 2 41.42	3	9012	8264 S 6	CB	3123
11 21	15 10 25.4692	1	11 13 19.826	28 34 27.40	3	9012	8264 S 6	CB	3124
11 21	15 10 31.0620	1	11 16 27.936	27 6 52.60	3	9012	8264 S 6	CB	3125
12 19	2 50 27.6647	1	2 0 40.737	-28 6 32.27	3	9010	8091 S 6	HB	3581
12 19	2 50 27.6657	1	23 30 11.714	17 9 25.83	3	9009	6562 S 7	CB	3571
12 19	2 50 32.2575	1	2 4 12.140	-28 51 15.67	3	9010	8091 S 6	HB	3582
12 19	2 50 33.2585	1	23 32 33.182	16 32 19.70	3	9009	6562 S 7	CB	3572
12 19	2 50 38.8505	1	2 7 42.514	-29 35 11.06	3	9010	8091 S 6	HB	3583
12 19	2 50 38.8513	1	23 34 55.680	15 54 14.62	3	9009	6562 S 7	CB	3573
12 19	2 50 44.4433	1	2 11 12.407	-30 18 19.07	3	9010	8091 S 6	HB	3584
12 19	2 50 50.0362	1	2 14 41.094	-31 0 35.58	3	9010	8091 S 6	HB	3585
12 21	1 32 17.1375	1	2 39 5.282	-11 26 31.10	3	9010	8115 S 4	MJ	3331
12 21	1 32 17.1390	1	23 1 49.686	41 46 38.35	3	9009	6575 S 5	SS	3261
12 21	1 32 22.7304	1	2 42 56.580	-12 24 23.75	3	9010	8115 S 4	MJ	3332
12 21	1 32 22.7317	1	23 5 51.461	41 22 29.18	3	9009	6575 S 5	SS	3262
12 21	1 32 28.3234	1	2 46 44.016	-13 20 47.70	3	9010	8115 S 4	MJ	3333
12 21	1 32 28.3246	1	23 9 55.598	40 57 11.76	3	9009	6575 S 5	SS	3263
12 21	1 32 33.9162	1	2 50 27.278	-14 15 45.83	3	9010	8115 S 4	MJ	3334
12 21	1 32 33.9173	1	23 14 2.490	40 30 42.09	3	9009	6575 S 5	SS	3264
12 21	1 32 35.5091	1	2 54 7.029	-15 9 30.95	3	9010	8115 S 4	MJ	3335
12 21	1 32 39.5100	1	23 18 11.333	40 2 51.39	3	9009	6575 S 5	SS	3265
1963 2 28	4 30 2.5665	1	10 16 36.232	-23 9 40.11	3	9010	8558 S 7	CB	871
2 28	4 30 2.5668	1	6 40 19.950	33 41 22.32	3	9009	7037 S 9	CB	831
2 28	4 30 13.7523	1	6 48 19.990	32 25 58.51	3	9009	7337 S 9	CB	833

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 2 28	4 30 13.7523	1	10 24 0.443	-24 41 54.13	3	9010	8558 S 7	CB	873
2 28	4 30 24.9378	1	6 56 29.637	31 4 1.18	3	9009	7037 S 9	CB	835
2 28	4 30 24.9381	1	10 31 10.896	-26 8 50.68	3	9010	8558 S 7	CB	875
4 22	4 24 17.6337	1	13 19 13.991	-2 23 21.27	3	9001	9882 S 6	CB	3641
4 22	4 24 17.6369	1	7 58 23.104	11 2 15.14	3	9010	9132 S 6	CB	3941
4 22	4 24 26.8194	1	13 28 48.550	-0 22 5.34	3	9001	9882 S 6	CB	3643
4 22	4 24 28.8225	1	7 59 26.949	12 31 45.10	3	9010	9132 S 6	CB	3943
4 22	4 24 40.0050	1	13 38 25.716	1 38 5.63	3	9001	9882 S 6	CB	3645
4 22	4 24 40.0079	1	8 0 30.255	14 4 25.87	3	9010	9132 S 6	CB	3945
9 14	7 41 17.8506	1	21 50 25.092	48 41 32.53	3	9010	11058 S 6	CB	3461
9 14	7 41 17.8525	1	5 1 33.741	+17 34 32.38	3	9001	11630 S 5	CB	3031
9 14	7 41 23.3569	1	21 51 56.763	50 5 19.75	3	9010	11058 S 6	CB	3462
9 14	7 41 23.3589	1	5 4 44.927	+18 0 0.12	3	9001	11630 S 5	CB	3032
9 14	7 41 29.5435	1	21 53 43.461	51 39 49.41	3	9010	11058 S 6	CB	3463
9 14	7 41 29.5456	1	5 8 17.108	+18 27 48.66	3	9001	11630 S 5	CB	3033
9 14	7 41 35.1980	1	21 55 26.650	53 6 24.09	3	9010	11058 S 6	CB	3464
9 14	7 41 35.2002	1	5 11 29.072	+18 52 15.99	3	9001	11630 S 5	CB	3034
9 14	7 41 40.8441	1	21 57 14.593	54 33 2.33	3	9010	11058 S 6	CB	3465
11 22	10 37 35.0461	1	5 12 2.398	49 27 27.83	3	9010	11690 S 7	CB	3821
11 22	10 37 35.0476	1	12 23 20.398	21 7 6.57	3	9001	12667 S 5	CB	3801
11 22	10 37 46.6243	1	5 14 53.679	52 7 47.43	3	9010	11690 S 7	CB	3823
11 22	10 37 46.6260	1	12 30 9.846	21 54 42.49	3	9001	12667 S 5	CB	3803
11 22	10 37 52.4021	1	5 16 24.389	53 28 6.83	3	9010	11690 S 7	CB	3824
11 22	10 37 57.9526	1	5 17 55.242	54 45 28.58	3	9010	11690 S 7	CB	3825
11 22	10 37 57.9544	1	12 36 41.678	22 37 46.18	3	9001	12667 S 5	CB	3805
12 9	2 21 22.0986	1	6 33 6.084	3 2 24.35	3	9010	11830 S 8	CB	781
12 9	2 21 22.0989	1	3 41 5.479	68 52 24.76	3	9009	9724 S 4	CB	711
12 9	2 21 27.7347	1	6 36 53.549	3 56 31.78	3	9010	11830 S 8	CB	782
12 9	2 21 27.7349	1	3 50 30.433	69 33 34.22	3	9009	9724 S 4	CB	712
12 9	2 21 33.8104	1	6 40 57.249	4 53 53.36	3	9010	11830 S 8	CB	783
12 9	2 21 33.8107	1	4 1 3.300	70 14 58.97	3	9009	9724 S 4	CB	713
12 9	2 21 35.4745	1	6 44 43.185	5 46 29.20	3	9010	11830 S 8	CB	784
12 9	2 21 45.1964	1	6 48 30.527	6 38 36.89	3	9010	11830 S 8	CB	785
12 9	2 21 45.1973	1	4 21 58.312	71 24 15.31	3	9009	9724 S 4	CB	715
12 9	2 21 45.1973	1	0 51 55.948	13 44 56.31	3	9010	11831 S 6	CB	791
12 9	2 21 45.1973	1	6 43 29.550	-2 32 50.02	3	9001	12930 S 5	CB	571
12 9	2 21 45.1973	1	0 53 5.269	14 43 42.26	3	9010	11831 S 6	CB	792
12 9	2 21 45.1973	1	6 46 54.130	-1 47 9.13	3	9001	12930 S 5	CB	572
12 9	2 21 45.1973	1	0 54 24.486	15 51 27.01	3	9010	11831 S 6	CB	793
12 9	2 21 45.1973	1	6 50 43.687	-0 56 7.09	3	9001	12930 S 5	CB	573
12 14	1 57 20.8815	1	3 54 30.186	-13 35 16.04	3	9010	11905 S 7	CB	841
12 14	1 57 20.8817	1	23 58 54.858	49 12 12.27	3	9009	9761 S 6	CB	7311
12 14	1 57 26.4346	1	3 58 44.749	-12 33 8.89	3	9010	11905 S 7	CB	842
12 14	1 57 26.4348	1	0 2 9.342	50 29 27.73	3	9009	9761 S 6	CB	7312
12 14	1 57 32.6364	1	4 3 29.349	-11 23 15.46	3	9010	11905 S 7	CB	843

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 12 14	1 57 32.6367	1	0 5 55.217	51 54 35.35	3	9009	9761 S 6	CB	7313
12 14	1 57 38.2425	1	4 7 47.414	-10 19 40.53	3	9010	11905 S 7	CB	844
12 14	1 57 38.2428	1	0 9 28.006	53 10 37.21	3	9009	9761 S 6	CB	7314
12 14	1 57 42.9402	1	4 12 9.949	-9 14 44.89	3	9010	11905 S 7	CB	845
12 14	1 57 43.9405	1	0 13 12.845	54 26 46.83	3	9009	9761 S 6	CB	7315
12 15	1 18 31.5072	1	1 2 3.467	46 43 38.57	3	9009	9763 S 6	CB	743
12 15	1 18 31.5089	1	4 8 50.116	-18 43 15.97	3	9010	11912 S 5	CB	853
12 15	1 18 37.0921	1	1 7 35.345	48 3 14.23	3	9009	9763 S 6	CB	744
12 15	1 18 37.3938	1	4 12 19.137	-17 49 5.63	3	9010	11912 S 5	CB	854
12 15	1 18 42.7649	1	1 13 23.501	49 21 56.62	3	9009	9763 S 6	CB	745
12 15	1 18 42.7666	1	4 15 52.413	-16 53 36.40	3	9010	11912 S 5	CB	855
12 19	0 33 27.6426	1	21 48 39.333	26 22 0.19	3	9009	9782 S 5	CB	751
12 19	0 33 27.6452	1	1 10 56.245	-28 2 12.37	3	9010	11917 S 8	CB	871
12 19	0 33 32.0774	1	21 50 11.016	27 33 33.75	3	9009	9782 S 5	CB	752
12 19	0 33 33.0801	1	1 14 47.351	-27 16 50.78	3	9010	11917 S 8	CB	872
12 19	0 33 35.2414	1	1 19 12.514	-26 23 59.36	3	9010	11917 S 8	CB	873
12 19	0 33 44.9402	1	1 23 20.252	-25 33 41.99	3	9010	11917 S 8	CB	874
12 19	0 33 50.5572	1	21 55 16.445	31 27 20.02	3	9009	9782 S 5	CB	755
12 19	0 33 50.5598	1	1 27 27.339	-24 42 50.16	3	9010	11917 S 8	CB	875
12 19	2 28 2.3529	1	22 30 14.582	41 17 1.51	3	9010	11919 S 7	CB	882
12 19	2 28 2.3761	1	5 42 38.345	17 57 38.88	3	9001	13029 S 8	CB	632
12 19	2 28 8.5294	1	22 31 15.615	42 42 24.33	3	9010	11919 S 7	CB	883
12 19	2 28 14.1731	1	5 50 10.821	18 59 26.55	3	9001	13029 S 8	CB	634
12 19	2 28 19.8710	1	22 33 10.717	45 20 41.96	3	9010	11919 S 7	CB	885
12 19	2 28 19.8945	1	5 53 47.791	19 27 55.47	3	9001	13029 S 8	CB	635
12 19	6 43.7194	1	6 13 30.781	41 30 46.58	3	9010	11924 S 6	CB	891
12 19	6 45.3060	1	6 18 29.411	41 16 56.64	3	9010	11924 S 6	CB	892
12 19	6 55.4609	1	6 24 4.079	41 5 11.32	3	9010	11924 S 6	CB	893
12 19	6 55.4844	1	13 16 47.468	17 45 6.13	3	9001	13034 S 7	CB	643
12 19	7 1.1113	1	6 29 16.219	40 43 23.68	3	9010	11924 S 6	CB	894
12 19	7 1.1350	1	13 17 40.772	16 52 47.12	3	9001	13034 S 7	CB	644
12 20	1 48 56.0824	1	5 11 24.127	9 1 45.13	3	9001	13045 S 7	CB	651
12 20	1 49 1.5305	1	22 49 7.144	37 33 20.12	3	9010	11936 S 6	CB	902
12 20	1 49 1.5330	1	5 14 23.987	9 34 52.87	3	9001	13045 S 7	CB	652
12 20	1 49 7.8495	1	22 51 35.061	39 12 14.93	3	9010	11936 S 6	CB	903
12 20	1 49 7.8520	1	5 17 50.811	10 12 13.17	3	9001	13045 S 7	CB	653
12 20	1 49 13.4170	1	22 53 50.849	40 40 13.19	3	9010	11936 S 6	CB	904
12 20	1 49 13.4196	1	5 20 51.836	10 44 18.16	3	9001	13045 S 7	CB	654
12 20	1 49 19.0760	1	22 56 15.183	42 10 21.35	3	9010	11936 S 6	CB	905
12 20	1 49 19.0787	1	5 23 54.208	11 16 10.36	3	9001	13045 S 7	CB	655
12 21	8 48 32.0228	1	13 5 42.327	28 5 10.22	3	9001	13061 S 9	CB	681
12 21	8 48 38.6312	1	13 5 54.877	27 17 11.50	3	9001	13061 S 9	CB	682
12 21	8 48 44.7558	1	5 19 54.630	65 11 44.19	3	9010	11943 S 6	CB	923
12 21	8 48 44.7580	1	13 6 9.596	26 25 44.21	3	9001	13061 S 9	CB	683
12 21	8 48 50.3778	1	5 29 23.679	65 23 19.15	3	9010	11943 S 6	CB	924

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 12 21	8 48 56.3801	1	13 6 23.540	25 39 9.92	9001	13061	S 9	684
12 21	8 48 56.0818	1	5 39 23.186	65 33 3.30	9010	11943	S 6	925
12 21	8 48 56.0843	1	13 6 38.297	24 52 38.80	9001	13061	S 9	685

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 12 6	3 17 7.2539	1	23 36 40.429	-11 48 36.58	9009	14911 S 3	EM	1681
12 6	3 17 7.4480	1	23 47 19.861	20 32 1.91	9007	16274 S 1	DK	1677
12 6	3 17 15.2539	1	23 36 37.624	-11 18 4.93	9009	14911 S 4	EM	1682
12 6	3 17 15.4483	1	23 47 16.505	21 0 12.32	9007	16274 S 2	DK	1678
12 6	3 17 23.2538	1	23 36 34.479	-10 47 33.39	9009	14911 S 5	EM	1683
12 6	3 17 23.4471	1	23 47 12.772	21 28 16.72	9007	16274 S 3	EM	1679
12 6	3 17 31.2541	1	23 36 30.996	-10 16 55.35	9009	4911 S 6	EM	1684
12 6	3 17 31.4481	1	23 47 8.771	21 56 9.01	9007	16274 S 4	EM	1680
12 6	3 17 35.2540	1	23 36 27.209	-9 46 17.20	9009	14911 S 7	EM	1685
12 6	3 17 47.2540	1	23 36 22.963	-9 15 31.28	9009	14911 S 8	EM	1686
12 6	3 17 55.2540	1	23 36 18.526	-8 44 44.15	9009	14911 S 9	EM	1687
12 6	6 21 6.4112	1	23 15 13.004	26 12 26.60	9001	19189 S 1	MN	1987
12 6	6 21 14.4115	1	23 14 23.263	26 40 45.98	9001	19189 S 2	MN	1988
12 6	6 21 22.4113	1	23 13 32.735	27 9 4.05	9001	19189 S 3	MN	1989
12 6	6 21 30.4113	1	23 12 41.441	27 37 20.68	9001	19189 S 4	AC	1990
12 6	6 21 33.7874	1	3 58 27.050	53 42 56.86	9012	16174 S 3	KA	1993
12 6	6 21 38.4114	1	23 11 49.614	28 5 28.65	9001	19189 S 5	AC	1991
12 6	6 21 41.7872	1	3 59 40.356	54 16 25.45	9012	16174 S 4	KA	3077
12 6	6 21 54.4113	1	23 10 2.810	29 1 38.75	9001	19189 S 7	AC	1992
12 6	6 21 57.7872	1	4 2 13.984	55 22 50.62	9012	16174 S 6		1995
12 6	6 22 5.7872	1	4 3 33.909	55 55 38.54	9012	16174 S 7	KA	1996
12 6	6 22 13.7872	1	4 4 55.991	56 28 10.84	9012	16174 S 8	KA	1997
12 6	6 24 50.4097	1	22 46 26.903	38 55 43.66	9001	19190 S 3	FI	9600
12 6	6 24 53.7509	1	4 42 29.883	66 18 13.97	9012	16175 S 1	FI	9607
12 6	6 24 58.4097	1	22 45 10.494	39 21 23.46	9001	19190 S 4	FI	9601
12 6	6 25 1.7509	1	4 45 2.458	66 44 22.80	9012	16175 S 2	FI	9608
12 6	6 25 6.4095	1	22 43 52.823	39 46 52.93	9001	19190 S 5	FI	385
12 6	6 25 9.7509	1	4 47 39.925	67 10 9.97	9012	16175 S 3	FI	9609
12 6	6 25 14.4097	1	22 42 33.964	40 12 16.63	9001	19190 S 6	FI	9603
12 6	6 25 17.7507	1	4 50 23.854	67 35 43.49	9012	16175 S 4	FI	386
12 6	6 25 22.4098	1	22 41 13.900	40 37 30.39	9001	19190 S 7	FI	9604
12 6	6 25 25.7507	1	4 53 11.533	68 0 48.93	9012	16175 S 5	FI	387
12 6	6 25 30.4095	1	22 39 52.606	41 2 31.68	9001	19190 S 8	FI	9605
12 6	6 25 32.7508	1	4 56 5.060	68 25 34.12	9012	16175 S 6	FI	9612
12 6	6 25 38.4095	1	22 38 29.937	41 27 27.39	9001	19190 S 9	FI	9606
12 6	6 25 41.7508	1	4 59 3.730	68 49 55.26	9012	16175 S 7	FI	9613
12 7	1 33 7.4554	1	1 19 53.608	-47 1 15.30	9009	14936 S 3	HP	3075
12 7	1 33 15.4555	1	1 19 50.493	-46 33 6.82	9009	14936 S 4	HP	1697
12 7	1 33 23.4557	1	1 19 47.430	-46 4 48.22	9009	14936 S 5	HP	1698
12 7	1 33 31.4558	1	1 19 44.141	-45 36 17.08	9009	14936 S 6	HP	2573
12 7	1 33 39.4441	1	1 9 30.482	13 2 17.94	9011	17329 S 2	HP	1702
12 7	1 33 47.4558	1	1 19 37.560	-44 38 38.02	9009	14936 S 8	HP	1699
12 7	1 33 55.4440	1	1 9 31.177	14 8 21.55	9011	17329 S 4	AC	1703
12 7	1 33 55.4557	1	1 19 34.097	-44 9 28.42	9009	14936 S 9	HP	1700
12 7	1 34 2.4558	1	1 19 30.478	-43 40 10.63	9009	14936 S 10	HP	1701

Satellite 1963 30A

7 December 1964

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 12 7	1 34 11.4436	1	1 9 31.579	15 13 32.81	4	9011	17329 S 6	AC	2574
12 7	1 34 15.4434	1	1 9 31.437	15 45 44.47	4	9011	17329 S 7	AC	2575
12 7	1 34 27.4432	1	1 9 31.221	16 17 35.61	4	9011	17329 S 8	KA	1706
12 7	1 34 35.4428	1	1 9 31.083	16 49 24.57	4	9011	17329 S 9	KA	1707
12 7	1 34 43.4430	1	1 9 30.615	17 20 52.79	4	9011	17329 S 10	KA	1708
12 7	1 36 3.4339	1	1 9 21.034	22 23 2.49	4	9011	17330 S 3	SW	1642
12 7	1 36 11.4340	1	1 9 19.507	22 52 2.24	4	9011	17330 S 4	SW	1643
12 7	1 36 19.4337	1	1 9 17.740	23 20 47.79	4	9011	17330 S 5	SW	1644
12 7	1 36 27.4335	1	1 9 15.949	23 49 24.66	4	9011	17330 S 6	SW	1645
12 7	1 36 35.4332	1	1 9 14.115	24 17 48.70	4	9011	17330 S 7	SW	1646
12 7	1 26 35.4606	1	1 18 7.153	-33 40 8.92	4	9009	14937 S 4	FI	1635
12 7	1 26 43.4631	1	1 9 12.152	24 45 57.94	4	9011	17330 S 8	SW	1647
12 7	1 26 43.4606	1	1 18 1.932	-33 6 11.46	4	9009	14937 S 5	FI	1636
12 7	1 26 51.4327	1	1 9 10.021	25 13 52.40	4	9011	17330 S 9	SW	1648
12 7	1 26 51.4606	1	1 17 56.587	-32 32 2.96	4	9009	14937 S 6	FI	1637
12 7	1 26 55.4609	1	1 17 51.032	-31 57 41.35	4	9009	14937 S 7	FI	1638
12 7	1 27 7.4608	1	1 17 45.769	-31 22 58.86	4	9009	14937 S 8	FI	1639
12 7	1 27 15.4608	1	1 17 40.041	-30 48 5.50	4	9009	14937 S 9	SW	1640
12 7	1 27 23.4639	1	1 17 34.353	-30 13 6.11	4	9009	14937 S 10	SW	1641
12 7	1 41 15.4612	1	1 14 2.512	-11 29 24.23	4	9009	14938 S 6	KA	1829
12 7	1 41 23.4611	1	1 13 53.368	-10 47 18.66	4	9009	14938 S 7	WC	1830
12 7	1 41 31.4611	1	1 13 44.324	-10 5 9.10	4	9009	14938 S 8	WC	1831
12 7	1 41 31.5160	1	2 18 11.647	-26 44 53.78	4	9010	15980 S 5	WC	1836
12 7	1 41 39.4613	1	1 13 34.783	-9 22 36.08	4	9009	14938 S 9	WC	1832
12 7	1 41 35.5160	1	2 18 7.013	-26 15 7.21	4	9010	15980 S 6	WC	1837
12 7	1 41 47.4613	1	1 13 25.257	-8 39 57.31	4	9009	14938 S 10	WC	1833
12 7	1 41 47.5162	1	2 18 2.506	-25 45 5.45	4	9010	15980 S 7	WC	1838
12 7	1 41 55.4613	1	1 13 15.675	-7 57 8.50	4	9009	14938 S 11	WC	1834
12 7	1 41 55.5163	1	2 17 58.204	-25 14 50.51	4	9010	15980 S 8	WC	1839
12 7	1 42 3.4614	1	1 13 5.895	-7 14 9.45	4	9009	14938 S 12	WC	1835
12 7	1 42 11.5164	1	2 17 49.709	-24 13 38.68	4	9010	15980 S 10	MN	1840
12 7	1 42 19.5165	1	2 17 45.766	-23 42 42.29	4	9010	15980 S 11	MN	1841
12 7	1 42 27.5168	1	2 17 41.688	-23 11 33.45	4	9010	15980 S 12	MN	1842
12 7	1 57 47.6663	1	2 22 29.447	56 8 12.86	4	9010	15983 S 4	KA	1666
12 7	1 58 2.4684	1	4 31 29.720	35 23 2.15	4	9001	19215 S 2	SS	1662
12 7	1 58 3.4629	1	C 0 28.936	69 2 5.39	4	9009	14942 S 10	LR	1673
12 7	1 58 3.6666	1	2 23 1.611	57 28 24.57	4	9010	15983 S 6	KA	1667
12 7	1 58 10.4684	1	4 32 37.984	35 54 47.94	4	9001	19215 S 3	SS	1663
12 7	1 58 11.4631	1	23 58 31.692	69 26 43.34	4	9009	14942 S 11	LR	1674
12 7	1 58 11.6668	1	2 23 18.854	58 8 3.65	4	9010	15983 S 7	KA	1668
12 7	1 58 18.4087	1	4 33 47.521	36 26 25.05	4	9001	19215 S 4	SS	1664
12 7	1 58 19.4629	1	23 56 30.405	69 51 4.08	4	9009	14942 S 12	LR	1675
12 7	1 58 15.6670	1	2 23 36.507	58 47 32.90	4	9010	15983 S 8	KA	1669
12 7	1 58 26.4608	1	4 34 58.291	36 57 57.38	4	9001	19215 S 5	SS	1665
12 7	1 58 27.4625	1	23 54 24.954	70 15 6.51	4	9009	14942 S 13	LR	2578

Satellite 1963 30A

7 December - 23 December 1964

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 12 7	1 58 27.6672	1	2 23 54.614	59 26 39.99	9010	15983 S 9	KA	1670
12 7	1 58 35.4624	1	23 52 15.430	70 38 57.50	9009	14942 S14	LR	2579
12 7	1 58 35.6674	1	2 24 13.923	60 5 42.33	9010	15983 S10	KA	1671
12 7	1 58 43.4627	1	23 50 0.797	71 2 29.62	9009	14942 S15	LR	1676
12 7	1 58 43.6677	1	2 24 33.649	60 44 23.11	9010	15983 S11	LR	1672
12 11	1 5 54.5177	1	4 35 22.046	27 57 4.73	9001	19313 S 3	DK	1600
12 11	1 6 3.3698	1	3 32 7.974	50 7 55.38	9010	16016 S 4	SW	1614
12 11	1 6 3.4655	1	1 58 10.521	69 33 53.82	9009	15037 S 6	DK	1607
12 11	1 6 11.3699	1	3 33 8.871	50 46 20.87	9010	16016 S 5	SW	1615
12 11	1 6 11.4654	1	1 58 2.455	70 2 13.63	9009	15037 S 7	EM	1608
12 11	1 6 18.5171	1	4 38 13.085	29 21 9.09	9001	19313 S 6	DK	1601
12 11	1 6 19.3700	1	3 34 11.406	51 24 33.55	9010	16016 S 6	SW	1616
12 11	1 6 19.4657	1	1 57 54.912	70 30 22.01	9009	15037 S 8	EM	1609
12 11	1 6 26.5169	1	4 39 11.789	29 49 12.11	9001	19313 S 7	DK	1602
12 11	1 6 27.3701	1	3 35 15.665	52 2 32.43	9010	16016 S 7	SW	1617
12 11	1 6 27.4655	1	1 57 46.416	70 58 17.86	9009	15037 S 9	EM	1610
12 11	1 6 34.5169	1	4 40 11.644	30 16 59.31	9001	19313 S 8	DK	1603
12 11	1 6 35.3702	1	3 36 22.225	52 40 14.91	9010	16016 S 8	FI	1618
12 11	1 6 35.4653	1	1 57 37.905	71 26 0.83	9009	15037 S10	EM	1611
12 11	1 6 42.5170	1	4 41 12.360	30 44 51.56	9001	19313 S 9	DK	1604
12 11	1 6 43.3704	1	3 37 30.183	53 17 47.10	9010	16016 S 9	FI	1619
12 11	1 6 43.4651	1	1 57 29.329	71 53 33.77	9009	15037 S11	EM	1612
12 11	1 6 50.5171	1	4 42 13.981	31 12 36.74	9001	19313 S10	DK	1605
12 11	1 6 51.3704	1	3 38 40.366	53 55 5.24	9010	16016 S10	FI	1620
12 11	1 6 51.4651	1	1 57 20.261	72 20 50.19	9009	15037 S12	EM	1613
12 11	1 6 58.5170	1	4 43 16.825	31 40 24.81	9001	19313 S11	DK	1606
12 22	2 48 19.8001	1	1 48 43.062	- 0 44 17.30	9001	19534 S 2	JV	1688
12 22	2 48 27.0805	1	23 48 19.144	5 44 8.42	9010	16127 S 5	DK	1693
12 22	2 48 27.8002	1	1 48 37.934	- 0 5 5.28	9001	19534 S 3	JV	1689
12 22	2 48 35.0805	1	23 47 54.800	6 16 45.56	9010	16127 S 6	DK	1694
12 22	2 48 35.8003	1	1 48 32.804	0 34 21.00	9001	19534 S 4	JV	2570
12 22	2 48 43.0806	1	23 47 30.289	6 49 27.23	9010	16127 S 7	DK	1695
12 22	2 48 43.8003	1	1 48 27.715	1 14 3.50	9001	19534 S 5	JV	1690
12 22	2 48 51.0806	1	23 47 4.758	7 22 15.91	9010	16127 S 8	DK	1696
12 22	2 48 51.8003	1	1 48 22.547	1 54 2.25	9001	19534 S 6	JV	2571
12 22	2 48 59.0810	1	23 46 39.215	7 55 4.79	9010	16127 S 9	DK	2572
12 22	2 48 59.8004	1	1 48 17.256	2 34 16.34	9001	19534 S 7	JV	1692
12 23	C 58 35.8137	1	0 36 10.386	20 51 3.75	9011	17532 S 6	AC	1823
12 23	C 58 51.5668	1	0 31 40.826	-33 16 53.70	9009	15256 S 5	EM	1818
12 23	C 58 51.8131	1	0 36 14.161	21 46 35.82	9011	17532 S 8	AC	1824
12 23	C 58 59.5669	1	0 31 41.623	-32 44 34.77	9009	15256 S 6	EM	1819
12 23	C 58 55.8130	1	0 36 15.500	22 14 12.26	9011	17532 S 9	AC	1825
12 23	C 59 7.5671	1	0 31 41.979	-32 11 55.79	9009	15256 S 7	EM	1820
12 23	C 59 7.8127	1	0 36 16.863	22 41 31.82	9011	17532 S10	AC	1826
12 23	C 59 15.5672	1	0 31 42.189	-31 39 17.36	9009	15256 S 8	EM	1821

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 12 23	C 59 23.8122	1	0 36 18.907	23 35 40.86	4	9011	17532 S12	AC	1827
12 23	C 59 31.5673	1	0 31 41.701	-30 33 12.97	4	9009	15256 S10	EM	1822
12 23	C 59 31.8120	1	0 36 19.876	24 2 28.94	4	9011	17532 S13	AC	1828
12 23	1 2 59.3334	1	1 38 15.680	-31 20 41.02	4	9010	16138 S 4	LR	1812
12 23	1 2 59.6196	1	0 30 5.999	-15 2 7.85	4	9009	15257 S 3	LR	1805
12 23	1 3 7.3332	1	1 38 9.198	-30 52 19.74	4	9010	16138 S 5	JW	1813
12 23	1 3 7.6196	1	0 29 58.979	-14 23 47.90	4	9009	15257 S 4	LR	1806
12 23	1 3 15.3333	1	1 38 3.009	-30 23 46.95	4	9010	16138 S 6	JW	1814
12 23	1 3 15.6198	1	0 29 51.721	-13 45 22.53	4	9009	15257 S 5	LR	1807
12 23	1 3 23.3333	1	1 37 56.858	-29 55 3.13	4	9010	16138 S 7	JW	2577
12 23	1 3 23.6199	1	0 29 44.317	-13 6 45.70	4	9009	15257 S 6	LR	1808
12 23	1 3 31.3335	1	1 37 50.693	-29 26 1.48	4	9010	16138 S 8	JW	1815
12 23	1 3 31.6200	1	0 29 36.505	-12 28 0.00	4	9009	15257 S 7	LR	1809
12 23	1 3 39.3323	1	1 37 44.310	-28 56 53.71	4	9010	16138 S 9	JW	1816
12 23	1 3 39.6200	1	0 29 28.432	-11 49 5.13	4	9009	15257 S 8	LR	1810
12 23	1 3 47.6200	1	0 29 20.168	-11 10 3.39	4	9009	15257 S 9	LR	1811
12 23	1 3 55.3334	1	1 37 31.836	-27 57 52.56	4	9010	16138 S11	JW	1817
12 23	1 15 15.3426	1	1 23 41.352	27 42 27.90	4	9010	16142 S 6	JW	1655
12 23	1 15 15.6235	1	23 54 17.098	44 35 24.44	4	9009	15262 S 5	TA	1649
12 23	1 15 23.3428	1	1 23 24.494	28 28 8.46	4	9010	16142 S 7	JW	1656
12 23	1 15 23.6236	1	23 53 26.847	45 7 57.16	4	9009	15262 S 6	TA	1650
12 23	1 15 31.3431	1	1 23 6.850	29 13 44.85	4	9010	16142 S 8	JW	1657
12 23	1 15 31.6236	1	23 52 35.487	45 40 16.06	4	9009	15262 S 7	TA	1651
12 23	1 15 39.3434	1	1 22 49.270	29 59 17.08	4	9010	16142 S 9	JW	1658
12 23	1 15 39.6236	1	23 51 43.207	46 12 21.23	4	9009	15262 S 8	WC	3078
12 23	1 15 47.3436	1	1 22 31.461	30 44 50.89	4	9010	16142 S10	JV	1659
12 23	1 15 47.6237	1	23 50 49.931	46 44 14.10	4	9009	15262 S 9	TA	1652
12 23	1 15 55.3438	1	1 22 13.077	31 30 18.09	4	9010	16142 S11	JV	1660
12 23	1 15 55.6238	1	23 49 55.269	47 15 51.51	4	9009	15262 S10	JW	1653
12 23	1 16 3.3442	1	1 21 54.248	32 15 42.19	4	9010	16142 S12	JV	1661
12 23	1 16 3.6237	1	23 48 59.781	47 47 14.94	4	9009	15262 S11	JW	1654
12 23	1 17 47.3474	1	1 17 10.343	41 56 26.73	4	9010	16143 S 5	HP	1593
12 23	1 17 47.6282	1	23 35 4.317	54 13 4.39	4	9009	15263 S 9	KA	1587
12 23	1 17 55.3478	1	1 16 45.082	42 40 8.69	4	9010	16143 S 6	HP	1594
12 23	1 18 3.3479	1	1 16 18.830	43 23 38.68	4	9010	16143 S 7	LR	1595
12 23	1 18 3.6283	1	23 29 58.166	56 3 24.85	4	9009	15263 S13	HP	1590
12 23	1 18 27.3488	1	1 14 56.726	45 33 3.00	4	9010	16143 S10	LR	1598
12 23	1 18 27.6286	1	23 28 37.298	56 30 24.57	4	9009	15263 S14	HP	2086
12 23	1 18 35.3493	1	1 14 27.560	46 15 4.20	4	9010	16143 S11	LR	1599
12 23	1 18 35.6284	1	23 27 15.122	56 57 6.77	4	9009	15263 S15	HP	1591
12 23	1 18 43.6286	1	23 25 50.830	57 23 33.23	4	9009	15263 S16	HP	1592

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 12 23	1 20 11.3474	1	1 7 34.284	54 31 41.92	4	9010	16144 S 3	WC	1949
12 23	1 20 11.6270	1	23 8 9.408	61 57 47.00	4	9009	15264 S 2	JV	1942
12 23	1 20 19.3477	1	1 6 53.074	55 11 27.66	4	9010	16144 S 4	WC	1950
12 23	1 20 19.6270	1	23 6 19.373	62 21 11.83	4	9009	15264 S 3	JV	1943
12 23	1 20 27.3479	1	1 6 10.445	55 50 58.98	4	9010	16144 S 5	WC	1951
12 23	1 20 27.4454	1	4 7 26.276	38 46 15.66	4	9001	19560 S 4	EM	1935
12 23	1 20 27.6272	1	23 4 26.600	62 44 17.69	4	9009	15264 S 4	JV	1944
12 23	1 20 35.3481	1	1 5 26.633	56 30 14.79	4	9010	16144 S 6	WC	1952
12 23	1 20 43.3483	1	1 4 41.138	57 9 13.17	4	9010	16144 S 7	WC	1953
12 23	1 20 43.6272	1	23 0 33.616	63 29 43.99	4	9009	15264 S 6	JV	1945
12 23	1 20 51.3486	1	1 3 54.564	57 47 58.16	4	9010	16144 S 8	WC	1954
12 23	1 20 51.4453	1	4 10 54.059	40 33 8.27	4	9001	19560 S 7	EM	2580
12 23	1 20 51.6270	1	22 58 32.852	63 52 0.66	4	9009	15264 S 7	JV	1946
12 23	1 20 59.3487	1	1 3 6.237	58 26 29.53	4	9010	16144 S 9	KA	1955
12 23	1 20 59.4452	1	4 12 6.250	41 8 32.84	4	9001	19560 S 8	EM	1937
12 23	1 20 59.6273	1	22 56 29.484	64 14 3.51	4	9009	15264 S 8	JV	1947
12 23	1 21 7.4452	1	4 13 19.949	41 43 45.12	4	9001	19560 S 9	EM	1938
12 23	1 21 7.6271	1	22 54 22.534	64 35 48.64	4	9009	15264 S 9	JV	1948
12 23	1 21 15.4455	1	4 14 35.416	42 18 48.45	4	9001	19560 S10	EM	1939
12 23	1 21 23.4455	1	4 15 52.873	42 53 45.05	4	9001	19560 S11	JV	1940
12 23	1 21 31.4457	1	4 17 11.547	43 28 32.90	4	9001	19560 S12	JV	1941
12 25	20 30 59.4567	1	0 43 16.870	44 59 29.80	4	9004	16870 S 4	JW	1621
12 25	20 31 0.0327	1	0 45 11.385	11 19 27.68	4	9115	4559 S 9	LR	1628
12 25	20 31 7.4567	1	0 42 25.783	45 42 14.56	4	9004	16870 S 5	JW	1622
12 25	20 31 8.0343	1	0 44 47.858	11 48 36.76	4	9115	4559 S10	LR	1629
12 25	20 31 15.4569	1	0 41 33.384	46 24 48.24	4	9004	16870 S 6	WI	1623
12 25	20 31 16.0358	1	0 44 24.138	12 18 0.62	4	9115	4559 S11	LR	1630
12 25	20 31 23.4569	1	0 40 39.394	47 7 17.05	4	9004	16870 S 7	WI	1624
12 25	20 31 24.0363	1	0 43 59.759	12 47 33.40	4	9115	4559 S12	LR	1631
12 25	20 31 31.4568	1	0 39 44.033	47 49 34.78	4	9004	16870 S 8	WI	1625
12 25	20 31 39.4569	1	0 38 47.010	48 31 42.02	4	9004	16870 S 9	WI	1626
12 25	20 31 40.0408	1	0 43 9.831	13 47 4.78	4	9115	4559 S14	KA	1632
12 25	20 31 47.4568	1	0 37 48.188	49 13 41.00	4	9004	16870 S10	WI	1627
12 25	20 31 48.0431	1	0 42 44.471	14 17 5.41	4	9115	4559 S15	KA	1633
12 25	20 31 56.0440	1	0 42 18.182	14 47 20.72	4	9115	4559 S16	KA	1634

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964	1 12 17	4 2.8236	3	1 25 49.702	46 15 54.89	4	15692 S 2	BA	283
	1 12 17	4 10.8177	1	0 14 10.807	31 32 3.48	4	10303 S 1	BA	279
	1 12 17	4 10.8247	3	1 24 48.090	46 51 13.93	4	15692 S 3	BA	284
	1 12 17	4 18.8181	1	1 23 20.232	31 56 1.07	4	10303 S 2	MY	5307
	1 12 17	4 18.8250	3	1 23 45.036	47 26 22.54	4	15692 S 4	VD	4713
	1 12 17	4 26.8179	1	0 12 28.309	32 19 51.41	4	10303 S 3	BA	280
	1 12 17	4 26.8249	3	1 22 40.670	48 1 17.50	4	15692 S 5	VD	4714
	1 12 17	4 34.8247	3	1 21 34.846	48 35 59.64	4	15692 S 6	BA	285
	1 12 17	4 42.8180	1	0 10 42.758	33 7 22.71	4	10303 S 5	BA	281
	1 12 17	4 42.8249	3	1 20 27.482	49 10 27.25	4	15692 S 7	BA	286
	1 12 17	4 50.8182	1	0 9 48.996	33 30 59.06	4	10303 S 6	MY	5308
	1 12 17	4 58.8182	1	0 8 54.258	33 54 31.68	4	10303 S 7	BA	282
	1 13 1 25	14.8169	1	4 48 57.864	26 32 46.49	4	13380 S 3	DM	808
	1 13 1 25	14.8222	1	0 47 48.112	50 20 31.68	4	9973 S 8	DM	807
	1 13 1 25	18.8220	1	0 47 17.414	50 33 43.84	4	9973 S 9	DM	602
	1 13 1 25	22.8166	1	4 49 33.759	27 8 44.93	4	13380 S 4	DM	809
	1 13 1 25	22.8220	1	0 46 46.314	50 46 58.63	4	9973 S 10	DM	603
	1 13 1 25	26.8220	1	0 46 14.831	51 0 4.50	4	9973 S 11	DM	604
	1 13 1 25	30.8165	1	4 50 9.673	27 44 46.00	4	13380 S 5	DM	610
	1 13 1 25	30.8223	1	0 45 43.486	51 13 12.06	4	9973 S 12	MN	605
	1 13 1 25	34.8223	1	0 45 11.116	51 26 15.53	4	9973 S 13	MN	606
	1 13 1 25	38.8164	1	4 50 47.311	28 20 46.93	4	13380 S 6	BN	5163
	1 13 1 25	38.8221	1	0 44 38.990	51 39 18.05	4	9973 S 14	MN	607
	1 13 1 25	46.8166	1	4 51 24.895	28 56 49.40	4	13380 S 7	BN	5367
	1 13 1 25	54.8166	1	4 52 3.586	29 32 52.39	4	13380 S 8	DM	611
	1 13 1 26	2.8167	1	4 52 43.046	30 8 54.62	4	13380 S 9	MN	612
	1 14 2 35	30.8158	1	3 8 57.652	20 58 42.17	4	13409 S 5	BN	5682
	1 14 2 35	30.8272	1	0 14 47.404	32 12 4.73	4	9990 S 5	VD	9227
	1 14 2 35	38.8156	1	3 8 53.575	21 40 32.38	4	13409 S 6	BN	5683
	1 14 2 35	38.8263	1	0 14 10.480	32 35 12.71	4	9990 S 6	VD	9228
	1 14 2 35	46.8272	1	0 13 33.418	32 58 16.38	4	9990 S 7	VD	9229
	1 14 2 35	54.8160	1	3 8 45.818	23 4 30.36	4	13409 S 8	VD	9223
	1 14 2 35	54.8271	1	0 12 55.421	33 21 16.76	4	9990 S 8	VD	9230
	1 14 2 36	2.8159	1	3 8 42.091	23 46 36.98	4	13409 S 9	VD	9224
	1 14 2 36	2.8266	1	0 12 17.167	33 44 9.48	4	9990 S 9	VD	9231
	1 14 2 36	10.8158	1	3 8 37.958	24 28 48.24	4	13409 S 10	VD	9225
	1 14 2 36	10.8264	1	0 11 38.374	34 6 54.60	4	9990 S 10	RO	5761
	1 14 2 36	18.8154	1	3 8 33.978	25 11 3.36	4	13409 S 11	VD	9226
	1 14 2 36	18.8265	1	0 10 58.655	34 29 33.63	4	9990 S 11	VD	9364
	1 14 5 27	14.8208	1	0 27 22.801	24 32 43.23	4	13416 S 2	VP	360
	1 14 5 27	30.8067	1	4 18 18.224	56 2 1.33	4	12443 S 8	VP	363
	1 14 5 27	30.8213	1	0 25 58.926	25 21 45.97	4	13416 S 3	VP	361
	1 14 5 27	38.8065	1	4 18 58.684	56 35 47.15	4	12443 S 9	VP	583
	1 14 5 27	46.8068	1	4 19 40.786	57 9 19.29	4	12443 S 10	VP	364
	1 14 5 27	46.8209	1	0 24 32.527	26 10 48.04	4	13416 S 4	VP	362

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 1 14	5 27 54.8067	1	4 20 24.008	57 42 41.59	4	9012	12443 S11	VP	365
1 14	5 28 2.8069	1	4 21 8.954	58 15 47.75	4	9012	12443 S12	VP	366
1 14	5 28 2.8206	1	0 23 4.008	26 59 35.47	4	9001	13416 S 5	BN	5690
1 14	5 28 10.8070	1	4 21 55.159	58 48 46.41	4	9012	12443 S13	VP	367
1 14	5 28 18.8073	1	4 22 42.506	59 21 27.41	4	9012	12443 S14	VP	368
1 14	5 28 18.8205	1	0 21 32.470	27 48 10.12	4	9001	13416 S 6	BN	5691
1 14	5 30 58.8067	1	4 45 46.549	69 27 55.65	4	9012	12444 S 9	VP	369
1 14	5 30 58.8152	1	0 3 44.517	35 40 35.77	4	9001	13415 S 2	BN	5688
1 14	5 31 6.8071	1	4 47 26.690	69 55 51.72	4	9012	12444 S10	VP	370
1 14	5 31 14.8068	1	4 49 10.935	70 23 28.55	4	9012	12444 S11	VP	798
1 14	5 31 14.8154	1	0 1 40.326	36 26 4.43	4	9001	13415 S 3	BN	5689
1 14	5 31 22.8069	1	4 50 59.238	70 50 50.25	4	9012	12444 S12	VP	7585
1 14	5 31 30.8070	1	4 52 52.922	71 18 0.15	4	9012	12444 S13	VP	799
1 14	5 31 30.8151	1	23 59 33.024	37 11 15.69	4	9001	13415 S 4	GL	375
1 14	5 31 38.8071	1	4 54 51.394	71 44 51.49	4	9012	12444 S14	VP	373
1 14	5 31 46.8073	1	4 56 55.123	72 11 30.99	4	9012	12444 S15	VP	374
1 14	5 31 46.8149	1	23 57 21.876	37 55 58.65	4	9001	13415 S 5	GL	376
1 15	0 46 10.8007	1	2 10 56.868	22 54 16.33	4	9007	11887 S11	VD	8874
1 15	0 46 10.8191	1	1 54 39.273	-16 44 27.26	4	9009	10007 S 7	RO	5762
1 15	0 46 18.8007	1	2 10 50.726	23 27 2.43	4	9007	11887 S12	VD	8875
1 15	0 46 18.8194	1	1 54 33.727	-16 7 57.30	4	9009	10007 S 8	VD	8880
1 15	0 46 26.8006	1	2 10 44.734	23 59 32.78	4	9007	11887 S13	VD	8876
1 15	0 46 26.8192	1	1 54 27.969	-15 31 16.42	4	9009	10007 S 9	VD	8881
1 15	0 46 34.8003	1	2 10 38.187	24 31 51.32	4	9007	11887 S14	VD	4702
1 15	0 46 34.8191	1	1 54 21.902	-14 54 28.87	4	9009	10007 S10	VD	8882
1 15	0 46 42.8006	1	2 10 31.938	25 3 53.08	4	9007	11887 S15	VD	8877
1 15	0 46 42.8190	1	1 54 15.745	-14 17 33.52	4	9009	10007 S11	VD	8883
1 15	0 46 50.8001	1	2 10 25.050	25 35 43.96	4	9007	11887 S16	VD	9362
1 15	0 46 50.8192	1	1 54 9.241	-13 40 31.31	4	9009	10007 S12	RO	5763
1 15	0 46 58.8003	1	2 10 18.422	26 7 24.37	4	9007	11887 S17	VD	8879
1 15	0 46 58.8190	1	1 54 2.686	-13 3 16.25	4	9009	10007 S13	VD	9363
1 16	0 46 26.8239	1	0 47 28.410	-5 21 8.88	4	9009	10027 S 6	SU	9450
1 16	0 46 34.8243	1	0 47 23.365	-4 52 29.60	4	9009	10027 S 7	SU	9451
1 16	0 46 42.8155	1	0 56 50.148	25 21 16.66	4	9007	11917 S 4	SU	9444
1 16	0 46 42.8192	1	3 30 15.929	-27 0 57.47	4	9001	13448 S 4	SU	9439
1 16	0 46 42.8238	1	0 47 17.880	-4 23 40.80	4	9009	10027 S 8	RO	5768
1 16	0 46 50.8158	1	0 56 43.874	25 45 47.09	4	9007	11917 S 5	SU	9606
1 16	0 46 50.8192	1	3 30 12.536	-26 34 50.80	4	9001	13448 S 5	SU	9440
1 16	0 46 58.8244	1	0 47 12.214	-3 54 54.12	4	9009	10027 S 9	SU	9452
1 16	0 46 58.8159	1	0 56 37.651	26 10 10.38	4	9007	11917 S 6	SU	9445
1 16	0 46 58.8192	1	3 30 9.135	-26 8 36.20	4	9001	13448 S 6	SU	9441
1 16	0 46 58.8246	1	0 47 6.151	-3 26 6.79	4	9009	10027 S10	RO	5769
1 16	0 46 58.8154	1	0 56 30.852	26 34 27.91	4	9007	11917 S 7	SU	9446
1 16	0 46 58.8190	1	3 30 5.874	-25 42 8.25	4	9001	13448 S 7	SU	9442
1 16	0 46 58.8241	1	0 47 0.004	-2 57 17.18	4	9009	10027 S11	SU	9453

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS. NO.
1964	1 16	2 1 14.8157	0 56 23.828	26 58 35.98	9007	11917 S 8	SU	9447
	1 16	2 1 14.8187	3 30 2.620	-25 15 34.03	9001	13448 S 8	BN	5694
	1 16	2 1 22.8155	0 56 16.597	27 22 37.48	9007	11917 S 9	SU	9448
	1 16	2 1 22.8188	3 29 59.613	-24 42 45.86	9001	13448 S 9	BN	5695
	1 16	2 1 30.8153	0 56 9.085	27 46 32.29	9007	11917 S10	SU	9449
	1 16	2 1 30.8189	3 29 56.636	-24 21 48.69	9001	13448 S10	SU	9443
	1 16	2 5 6.8292	0 41 23.834	11 25 17.24	9009	10028 S 2	VD	9233
	1 16	2 5 14.8205	3 29 2.732	-10 31 2.48	9001	13449 S 3	VD	8885
	1 16	2 5 14.8294	0 41 7.095	11 53 40.35	9009	10028 S 3	RD	5770
	1 16	2 5 22.8203	3 29 1.944	-9 58 30.95	9001	13449 S 4	VD	8886
	1 16	2 5 22.8295	0 40 50.486	12 21 59.87	9009	10028 S 4	RD	5771
	1 16	2 5 30.8205	3 29 1.197	-9 25 44.42	9001	13449 S 5	VD	8887
	1 16	2 5 30.8294	0 40 33.203	12 50 17.75	9009	10028 S 5	VD	9234
	1 16	2 5 38.8203	3 29 0.692	-8 52 46.38	9001	13449 S 6	VD	8888
	1 16	2 5 38.8296	0 40 16.061	13 18 35.20	9009	10028 S 6	VD	9235
	1 16	2 5 46.8204	3 29 0.085	-8 19 36.24	9001	13449 S 7	VD	8889
	1 16	2 5 46.8294	0 39 58.157	13 46 44.83	9009	10028 S 7	VD	9236
	1 16	2 5 54.8201	3 28 59.627	-7 46 11.05	9001	13449 S 8	VD	8890
	1 16	2 6 2.8200	3 28 59.253	-7 12 34.63	9001	13449 S 9	BN	6009
	1 25	1 37 22.9773	1 22 15.963	-24 2 8.96	9010	12191 S 5	SU	9436
	1 25	1 37 30.8343	0 39 41.531	-7 53 9.83	9009	10063 S 5	RD	5776
	1 25	1 37 38.8342	0 39 39.151	-7 26 23.24	9009	10063 S 6	SU	9432
	1 25	1 37 38.9747	1 22 7.720	-23 10 29.71	9010	12191 S 6	PG	5784
	1 25	1 37 46.8343	0 39 36.061	-6 59 36.49	9009	10063 S 7	SU	9433
	1 25	1 37 54.8343	0 39 33.109	-6 32 46.49	9009	10063 S 8	SU	9434
	1 25	1 37 54.9730	1 21 58.593	-22 18 24.16	9010	12191 S 7	PG	5785
	1 25	1 38 2.8336	0 39 29.852	-6 5 56.61	9009	10063 S 9	RD	5777
	1 25	1 38 10.8341	0 39 26.057	-5 39 1.41	9009	10063 S10	SU	9435
	1 25	1 38 10.9723	1 21 48.571	-21 25 49.44	9010	12191 S 8	SU	9437
	1 25	1 38 26.9716	1 21 37.770	-20 32 49.77	9010	12191 S 9	SU	9438
	1 29	15 2 58.8348	0 52 0.173	19 33 13.84	9006	10645 S 4	BA	287
	1 29	15 2 58.8412	2 52 45.692	25 55 31.94	9008	15951 S 1	BA	293
	1 29	15 3 6.8348	0 51 24.946	20 3 49.07	9006	10645 S 5	BA	288
	1 29	15 3 6.8422	2 52 36.309	26 37 55.09	9008	15951 S 2	MY	5748
	1 29	15 3 14.8350	0 50 49.521	20 34 16.82	9006	10645 S 6	BA	289
	1 29	15 3 14.8427	2 52 26.842	27 20 21.58	9008	15951 S 3	BA	294
	1 29	15 3 22.8350	0 50 13.545	21 4 45.27	9006	10645 S 7	BA	290
	1 29	15 3 22.8419	2 52 17.372	28 2 51.16	9008	15951 S 4	BA	295
	1 29	15 3 30.8352	0 49 36.907	21 35 16.67	9006	10645 S 8	BA	291
	1 29	15 3 30.8433	2 52 7.868	28 45 18.36	9008	15951 S 5	BA	296
	1 29	15 3 38.8353	0 48 59.735	22 5 40.37	9006	10645 S 9	BA	292
	1 29	15 3 46.8428	2 51 47.714	30 10 12.14	9008	15951 S 7	MY	5749
	1 29	15 7 30.8369	0 25 56.579	36 24 54.68	9006	10646 S 2	SU	9604
	1 29	15 7 30.8485	2 45 29.601	49 31 55.14	9008	15952 S 1	SU	9429
	1 29	15 7 38.8371	0 24 56.627	36 53 16.35	9006	10646 S 3	BA	5315

DATE	TIME (A-1)	RMS	R.A. (1950.0)	DECL. (1950.0)	STATION	FRAME NO.	MS	OBS.NO.
Y M D	H M S	MS	H M S	D M S				
1964	1 29	1	2 45 11.127	50 11 34.35	9008	15952 S 2	MY	5750
	1 29	1	0 23 55.245	37 21 33.57	9006	10646 S 4	SU	9426
	1 29	1	C 22 53.409	37 49 33.38	9006	10646 S 5	SU	9427
	1 29	1	2 44 32.924	51 30 30.12	9008	15952 S 4	SU	9430
	1 29	1	0 21 50.136	38 17 35.47	9006	10646 S 6	BA	5316
	1 29	1	2 44 12.868	52 9 45.46	9008	15952 S 5	SU	9605
	1 29	1	C 20 45.939	38 45 28.27	9006	10646 S 7	SU	9428
	1 29	1	2 43 52.420	52 48 50.30	9008	15952 S 6	SU	9431
	1 29	1	2 43 31.279	53 27 37.68	9008	15952 S 7	MY	5751
	2 2	1	18 24 29.171	41 15 25.15	9008	16024 S 4	LD	9365
	2 2	1	18 23 10.532	40 54 21.15	9008	16024 S 5	LD	9019
	2 2	1	18 21 53.503	40 33 13.06	9008	16024 S 6	LD	9020
	2 2	1	18 0 24.482	61 6 7.61	9006	10744 S 2	LD	9027
	2 2	1	18 20 37.003	40 11 49.53	9008	16024 S 7	LD	9021
	2 2	1	17 57 47.695	60 39 29.05	9006	10744 S 3	LD	9028
	2 2	1	18 19 21.522	39 50 17.92	9008	16024 S 8	LD	9022
	2 2	1	17 55 14.931	60 12 24.57	9006	10744 S 4	LD	9029
	2 2	1	17 52 45.419	59 44 55.79	9006	10744 S 5	LD	9030
	2 2	1	17 50 19.630	59 17 7.17	9006	10744 S 6	LD	9031
	2 2	1	17 24 53.320	12 20 28.32	9008	16026 S 3	SU	9914
	2 2	1	16 28 47.428	19 28 4.93	9006	10748 S 2	SU	7799
	2 2	1	17 24 24.643	11 54 20.09	9008	16026 S 4	SU	9915
	2 2	1	16 28 11.934	18 46 52.81	9006	10748 S 3	SU	7800
	2 2	1	17 23 56.724	11 28 14.18	9008	16026 S 5	SU	411
	2 2	1	16 27 37.291	18 5 29.99	9006	10748 S 4	SU	7801
	2 2	1	17 23 29.174	11 2 5.57	9008	16026 S 6	SU	9917
	2 2	1	16 27 3.257	17 24 14.33	9006	10748 S 5	SU	7802
	2 2	1	17 23 1.773	10 35 55.25	9008	16026 S 7	SU	412
	2 2	1	16 26 29.786	16 42 59.46	9006	10748 S 6	SU	7803
	2 2	1	17 22 35.078	10 9 53.54	9008	16026 S 8	SU	413
	2 2	1	16 25 56.854	16 1 45.02	9006	10748 S 7	SU	7804
	2 2	1	16 2 46.486	62 13 33.44	9006	10843 S 4	DM	7805
	2 2	1	16 1 23.145	61 35 41.96	9006	10843 S 5	DM	7806
	2 2	1	18 0 2.325	41 8 54.35	9008	16072 S 2	SU	8991
	2 2	1	17 58 42.348	40 42 8.58	9008	16072 S 3	SU	7812
	2 2	1	16 0 2.807	60 57 26.53	9006	10843 S 6	DM	7807
	2 2	1	15 58 45.241	60 18 55.49	9006	10843 S 7	DM	7808
	2 2	1	17 57 23.782	40 15 5.88	9008	16072 S 4	SU	7813
	2 2	1	17 56 6.411	39 47 55.22	9008	16072 S 5	SU	7814
	2 2	1	15 57 30.127	59 40 1.88	9006	10843 S 8	SU	7809
	2 2	1	17 54 50.205	39 20 38.85	9008	16072 S 6	SU	7815
	2 2	1	15 56 18.052	59 0 50.02	9006	10843 S 9	SU	7810
	2 2	1	17 53 35.128	38 53 3.51	9008	16072 S 7	SU	7816
	2 2	1	15 55 7.968	58 21 24.18	9006	10843 S10	SU	7811
	2 2	1	17 52 21.499	38 25 25.69	9008	16072 S 8	SU	7817

DATE Y M D	TIME (A-L) H M S			RMS MS	R.A. (1950.C) H M S			DECL. (1950.C) RMS D M S S			STATION	FRAME NO.	MS	OBS.NO.
	F	M	S		H	M	S	D	M	S				
1964	2	8	C	1 38.8634	1	15	33	31.789	37	59	40.95	4	LD	9013
	2	8	C	1 46.8633	1	15	33	1.227	37	12	48.60	4	LD	9014
	2	8	C	1 54.8640	1	15	32	31.253	36	25	49.39	4	LD	9015
	2	8	C	2 2.8623	1	17	23	13.632	23	34	20.10	4	LD	9023
	2	8	C	2 2.8640	1	15	32	2.042	35	38	38.21	4	LD	9016
	2	8	C	2 10.8632	1	17	22	28.666	23	3	11.89	4	LD	9024
	2	8	C	2 10.8644	1	15	31	33.510	34	51	20.41	4	LD	9017
	2	8	C	2 18.8632	1	17	21	44.428	22	32	0.10	4	LD	9025
	2	8	C	2 26.8627	1	17	21	0.767	22	0	49.38	4	LD	9607
	2	8	C	2 34.8634	1	17	20	17.764	21	29	31.02	4	LD	9026
	2	8	C	8 10.8724	1	15	17	38.451	- 0	11	34.96	4	SU	9920
	2	8	C	8 10.8737	1	16	58	52.801	- 0	25	41.90	4	SU	9926
	2	8	C	8 18.8726	1	15	17	26.076	- 0	54	33.94	4	SU	9921
	2	8	C	8 18.8729	1	16	58	32.538	- 0	56	9.26	4	SU	9927
	2	8	C	8 26.8726	1	15	17	14.439	- 1	37	22.83	4	SU	9922
	2	8	C	8 26.8733	1	16	58	12.624	- 1	26	32.71	4	SU	9928
	2	8	C	8 34.8728	1	15	17	2.657	- 2	19	49.55	4	SU	9923
	2	8	C	8 34.8735	1	16	57	52.995	- 1	56	51.37	4	SU	9929
	2	8	C	8 42.8728	1	15	16	51.296	- 3	2	4.89	4	SU	9924
	2	8	C	8 42.8733	1	16	57	33.841	- 2	27	0.02	4	SU	9930
	2	8	C	8 50.8730	1	15	16	39.885	- 3	44	1.73	4	SU	9925
	4	4	14	6 19.0219	1	11	3	27.337	49	6	8.02	4	RD	695
	4	4	14	6 27.0219	1	11	5	11.817	48	39	54.13	4	RD	696
	4	4	14	6 35.0221	1	11	6	54.297	48	13	26.12	4	RD	697
	4	4	14	6 43.0223	1	11	8	35.025	47	46	45.97	4	RD	698
	4	4	14	6 43.0424	1	17	24	54.986	30	50	58.57	4	BA	559
	4	4	14	6 51.0223	1	11	10	14.063	47	19	51.58	4	RD	699
	4	4	14	6 59.0226	1	11	11	50.910	46	52	43.55	4	RD	700
	4	4	14	6 59.0420	1	17	22	41.048	29	49	57.98	4	BA	560
	4	4	14	7 15.0413	1	17	20	30.863	28	48	36.55	4	BA	561
	4	4	14	7 31.0406	1	17	18	26.025	27	47	4.94	4	BA	562
	4	4	14	7 47.0394	1	17	16	24.264	26	45	16.35	4	BA	563
	4	4	19	46 59.0683	1	17	15	28.493	19	37	51.24	4	NG	9641
	4	4	19	47 7.0296	1	15	48	44.950	30	18	33.29	4	AC	9634
	4	4	19	47 7.0684	1	17	14	45.480	19	8	27.63	4	NG	9935
	4	4	19	47 15.0298	1	15	48	4.639	29	31	26.48	4	SS	9635
	4	4	19	47 15.0684	1	17	14	3.233	18	38	58.47	4	NG	9643
	4	4	19	47 23.0302	1	15	47	25.208	28	44	20.79	4	SS	9636
	4	4	19	47 31.0303	1	15	46	46.710	27	57	11.86	4	SS	9637
	4	4	19	47 31.0686	1	17	12	40.671	17	40	3.10	4	NG	9644
	4	4	19	47 39.0307	1	15	46	8.808	27	9	58.58	4	SS	9638
	4	4	19	47 39.0687	1	17	12	0.576	17	10	34.04	4	DK	9645
	4	4	19	47 47.0309	1	15	45	31.644	26	22	52.07	4	NG	9639
	4	4	19	47 47.0687	1	17	11	20.723	16	41	0.35	4	DK	9646
	4	4	19	47 55.0312	1	15	44	55.450	25	35	37.70	4	NG	9640

DATE Y	D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964	4	19 47 55.6686	1	17 10 41.729	16 11 31.66	9008	16789 S12	DK	9647
	4	22 24 35.0118	1	10 36 45.796	84 59 11.25	9008	16792 S 1	DK	9296
	4	22 24 35.0219	1	9 47 27.093	58 12 49.46	9006	11908 S 1	EM	9289
	4	22 24 43.0119	1	10 55 1.852	84 40 19.62	9008	16792 S 2	RD	9297
	4	22 24 43.0219	1	9 50 34.272	57 55 40.82	9006	11908 S 2	EM	9290
	4	22 24 51.0119	1	11 11 18.009	84 19 28.31	9008	16792 S 3	RD	9298
	4	22 24 51.0220	1	9 53 38.697	57 38 4.01	9006	11908 S 3	DK	9291
	4	22 24 59.0120	1	11 25 45.595	83 56 54.27	9008	16792 S 4	RD	9299
	4	22 24 59.0219	1	9 56 4.441	57 19 58.92	9006	11908 S 4	DK	9292
	4	22 25 7.0123	1	11 38 32.640	83 32 51.12	9008	16792 S 5	RD	9300
	4	22 25 7.0220	1	9 59 40.215	57 1 32.49	9006	11908 S 5	DK	9293
	4	22 25 15.0124	1	11 49 56.536	83 7 26.03	9008	16792 S 6	RD	9301
	4	22 25 15.0221	1	10 2 36.805	56 42 41.11	9006	11908 S 6	DK	9294
	4	22 25 23.0125	1	12 0 2.004	82 41 5.44	9008	16792 S 7	RD	9302
	4	22 25 23.0223	1	10 5 31.331	56 23 22.05	9006	11908 S 7	DK	9295
	4	20 47 43.0168	1	20 5 15.902	69 48 11.22	9008	16815 S 1	AM	9303
	4	20 47 47.0091	1	8 15 30.054	81 38 46.84	9006	11930 S 3	AC	9630
	4	20 47 51.0171	1	20 0 6.837	69 38 53.97	9008	16815 S 2	AM	9304
	4	20 47 55.0094	1	8 28 55.958	81 36 36.33	9006	11930 S 4	AC	9631
	4	20 47 59.0172	1	19 55 5.621	69 28 57.85	9008	16815 S 3	AM	9305
	4	20 48 3.0095	1	8 42 16.642	81 32 43.10	9006	11930 S 5	AC	9933
	4	20 48 7.0172	1	19 49 57.731	69 18 19.34	9008	16815 S 4	AM	9306
	4	20 48 11.0097	1	8 55 29.608	81 27 6.41	9006	11930 S 6	AC	9633
	4	20 48 15.0173	1	19 44 57.278	69 7 2.82	9008	16815 S 5	AM	9307
	4	20 48 19.0101	1	9 8 27.663	81 19 44.69	9006	11930 S 7	AC	9934
	4	20 59 23.0294	1	13 32 30.545	29 49 16.81	9006	11932 S 5	RD	9162
	4	20 59 31.0294	1	13 32 55.872	29 0 44.57	9006	11932 S 6	RD	9163
	4	20 59 35.0315	1	16 26 31.949	24 51 45.17	9008	16816 S 5	RD	9167
	4	20 59 39.0295	1	13 33 20.926	28 12 10.31	9006	11932 S 7	RD	9164
	4	20 59 43.0318	1	16 25 45.185	24 10 8.90	9008	16816 S 6	RD	9168
	4	20 59 47.0302	1	13 33 45.193	27 23 36.82	9006	11932 S 8	RD	9355
	4	20 59 51.0319	1	16 24 58.999	23 28 25.93	9008	16816 S 7	RD	9169
	4	20 59 55.0301	1	13 34 8.892	26 35 7.09	9006	11932 S 9	RD	9166
	4	20 59 59.0321	1	16 24 14.033	22 46 42.98	9008	16816 S 8	RD	9170
	4	21 0 7.0324	1	16 23 29.715	22 5 2.05	9008	16816 S 9	RD	9171
	4	23 36 11.0392	1	18 49 45.472	52 9 41.13	9004	12533 S 8	BM	913
	4	23 36 19.0145	1	9 25 25.400	65 40 11.24	9008	16821 S 4	EM	918
	4	23 36 19.0391	1	18 47 15.041	51 49 20.94	9004	12533 S 9	BM	914
	4	23 36 27.0146	1	9 29 46.466	65 25 58.27	9008	16821 S 5	EM	919
	4	23 36 27.0392	1	18 44 46.909	51 28 43.42	9004	12533 S10	EM	915
	4	23 36 35.0147	1	9 34 3.900	65 11 0.94	9008	16821 S 6	EM	920
	4	23 36 35.0392	1	18 42 20.623	51 7 43.58	9004	12533 S11	EM	916
	4	23 36 43.0150	1	9 38 17.398	64 55 30.91	9008	16821 S 7	EM	921
	4	23 36 43.0393	1	18 39 56.857	50 46 21.87	9004	12533 S12	EM	917
	4	23 36 51.0150	1	9 42 26.804	64 39 24.85	9008	16821 S 8	EM	922

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964	4 8	21 37 7.0171	18 23 14.915	84 32 28.70	4	9008	16842 S 1	TA	9562
4 8	21 37 15.0173	1	18 6 11.106	84 14 8.15	4	9008	16842 S 2	WC	9563
4 8	21 37 23.0174	1	17 50 50.741	83 53 58.12	4	9008	16842 S 3	WC	9564
4 8	21 37 23.0231	1	9 46 20.864	64 15 9.54	4	9006	11961 S 1	BM	9469
4 8	21 37 31.0175	1	17 37 0.704	83 32 4.40	4	9008	16842 S 4	WC	9565
4 8	21 37 31.0233	1	9 50 20.786	63 57 48.72	4	9006	11961 S 2	BM	9470
4 8	21 37 35.0178	1	17 24 35.261	83 8 42.89	4	9008	16842 S 5	WC	9566
4 8	21 37 35.0233	1	9 54 17.569	63 39 50.78	4	9006	11961 S 3	BM	9471
4 8	21 37 47.0178	1	17 13 28.016	82 44 5.73	4	9008	16842 S 6	WC	9567
4 8	21 37 47.0235	1	9 58 9.511	63 21 18.74	4	9006	11961 S 4	AC	9472
4 8	21 37 55.0180	1	17 3 28.623	82 18 20.87	4	9008	16842 S 7	WC	9568
4 8	21 37 55.0239	1	10 1 57.980	63 2 16.14	4	9006	11961 S 5	AC	9473
4 8	21 38 3.0241	1	10 5 41.592	62 42 38.77	4	9006	11961 S 6	AC	9474
4 8	21 38 11.0242	1	10 9 21.781	62 22 30.43	4	9006	11961 S 7	AC	9475
4 8	21 40 27.0276	1	11 1 31.597	55 24 29.14	4	9006	11962 S 3	LD	9519
4 8	21 40 35.0233	1	15 35 46.471	71 24 21.76	4	9008	16843 S 2	LD	2670
4 8	21 40 35.0274	1	11 4 2.148	54 55 56.18	4	9006	11962 S 4	LD	9520
4 8	21 40 43.0232	1	15 33 53.523	70 46 45.01	4	9008	16843 S 3	LD	2671
4 8	21 40 43.0272	1	11 6 29.456	54 27 5.36	4	9006	11962 S 5	LD	9521
4 8	21 40 51.0235	1	15 32 7.831	70 8 51.25	4	9008	16843 S 4	LD	2672
4 8	21 40 51.0276	1	11 8 53.642	53 57 48.36	4	9006	11962 S 6	LD	9522
4 8	21 40 59.0240	1	15 30 26.732	69 30 30.77	4	9008	16843 S 5	LD	2673
4 8	21 41 7.0239	1	15 28 51.844	68 51 51.31	4	9008	16843 S 6	LD	3027
4 14	3 45 55.0565	1	12 6 6.843	21 28 17.10	4	9004	12707 S 4	LT	8766
4 14	3 46 3.0563	1	12 7 0.075	20 55 49.20	4	9004	12707 S 5	LT	8767
4 14	3 46 11.0341	1	17 31 1.859	26 58 39.47	4	9010	13040 S 4	LT	8779
4 14	3 46 11.0562	1	12 7 52.585	20 23 25.35	4	9004	12707 S 6	LT	8768
4 14	3 46 19.0341	1	17 30 10.272	26 31 37.22	4	9010	13040 S 5	LT	8780
4 14	3 46 19.0564	1	12 8 44.182	19 50 59.27	4	9004	12707 S 7	LT	8769
4 14	3 46 27.0341	1	17 29 19.701	26 4 38.08	4	9010	13040 S 6	LT	8781
4 14	3 46 27.0565	1	12 9 34.994	19 18 38.15	4	9004	12707 S 8	LT	8770
4 14	3 46 35.0340	1	17 28 29.281	25 37 22.90	4	9010	13040 S 7	LT	8782
4 14	3 46 35.0566	1	12 10 24.609	18 46 21.81	4	9004	12707 S 9	LT	8771
4 14	3 46 43.0569	1	12 11 13.568	18 14 6.05	4	9004	12707 S 10	LT	8772
4 14	23 12 40.0495	1	18 59 1.162	55 37 0.81	4	9004	12727 S 1	JW	9557
4 14	23 12 48.0495	1	18 56 5.403	55 17 43.49	4	9004	12727 S 2	JW	9558
4 14	23 12 56.0495	1	18 53 11.859	54 57 54.84	4	9004	12727 S 3	TA	9559
4 14	23 12 59.0237	1	9 24 30.581	62 38 11.82	4	9008	16780 S 4	KA	9859
4 14	23 13 4.0493	1	18 50 21.436	54 37 46.97	4	9004	12727 S 4	TA	9560
4 14	23 13 7.0237	1	9 28 20.655	62 23 38.29	4	9008	16780 S 5	KA	9860
4 14	23 13 12.0497	1	18 47 33.160	54 17 10.62	4	9004	12727 S 5	TA	9561
4 14	23 13 15.0238	1	9 32 8.196	62 8 30.29	4	9008	16780 S 6	KA	9861
4 14	23 13 23.0243	1	9 35 51.894	61 52 51.16	4	9008	16780 S 7	KA	9862
4 14	23 13 31.0243	1	9 39 33.878	61 36 33.69	4	9008	16780 S 8	AC	9863
4 14	23 16 8.0496	1	17 56 11.793	45 15 26.24	4	9004	12728 S 5	LD	9509

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964	4 14	23 16 16.0499	17 54 17.775	44 47 21.85	4	9004	12728 S 6	LD	9510
	4 14	23 16 19.0263	10 44 38.597	54 5 8.55	4	9008	16781 S 4	LD	1220
	4 14	23 16 24.0498	17 52 25.559	44 19 5.12	4	9004	12728 S 7	LD	9511
	4 14	23 16 27.0264	10 47 9.573	53 38 59.99	4	9008	16781 S 5	LD	1221
	4 14	23 16 32.0500	17 50 35.585	43 50 30.10	4	9004	12728 S 8	LD	9512
	4 14	23 16 35.0267	10 49 38.184	53 12 23.58	4	9008	16781 S 6	LD	1500
	4 14	23 16 40.0499	17 48 47.690	43 21 45.15	4	9004	12728 S 9	LD	9513
	4 14	23 16 43.0267	10 52 2.887	52 45 35.45	4	9008	16781 S 7	LD	1223
	4 14	23 16 51.0270	10 54 25.320	52 18 19.70	4	9008	16781 S 8	LD	2667
	4 18	19 45 31.0392	13 52 49.569	47 53 59.41	4	9006	12191 S 1	WC	9569
	4 18	19 45 39.0395	13 53 12.298	47 5 48.23	4	9006	12191 S 2	WC	9570
	4 18	19 45 47.0396	13 53 33.862	46 17 28.77	4	9006	12191 S 3	AC	9571
	4 18	19 45 55.0397	13 53 55.105	45 28 51.73	4	9006	12191 S 4	AC	9572
	4 18	19 46 3.0401	13 54 15.255	44 40 6.91	4	9006	12191 S 5	AC	9573
	4 18	19 46 11.0404	13 54 35.386	43 51 8.00	4	9006	12191 S 6	AC	9574
	4 18	19 46 19.0410	13 54 54.168	43 2 4.84	4	9006	12191 S 7	AC	9575
	4 18	19 46 27.0359	16 53 19.292	32 40 57.71	4	9008	16805 S 1	WC	9864
	4 18	19 46 35.0363	16 52 15.372	32 3 33.07	4	9008	16805 S 2	WC	9865
	4 18	19 46 43.0363	16 51 12.831	31 26 7.37	4	9008	16805 S 3	WC	9866
	4 18	19 46 51.0361	16 50 11.146	30 48 25.92	4	9008	16805 S 4	WC	9867
	4 18	19 46 59.0363	16 49 10.875	30 10 41.61	4	9008	16805 S 5	WC	9868
	4 18	19 47 7.0359	16 48 11.646	29 32 53.60	4	9008	16805 S 6	WC	9869
	4 18	19 47 15.0362	16 47 13.622	28 55 1.85	4	9008	16805 S 7	WC	9870
	4 19	4 2 3.0581	10 35 30.848	43 57 31.90	4	9004	12783 S 5	LT	9599
	4 19	4 2 11.0580	10 37 32.413	43 35 10.83	4	9004	12783 S 6	LT	8773
	4 19	4 2 19.0581	10 39 31.894	43 12 35.82	4	9004	12783 S 7	LT	8774
	4 19	4 2 27.0403	19 5 50.021	58 4 49.17	4	9010	13149 S 9	LD	9503
	4 19	4 2 27.0581	10 41 29.959	42 49 44.12	4	9004	12783 S 8	LT	8775
	4 19	4 2 35.0405	19 3 1.612	57 47 43.10	4	9010	13149 S10	LD	9504
	4 19	4 2 35.0582	10 43 26.460	42 26 45.64	4	9004	12783 S 9	LT	8776
	4 19	4 2 43.0405	19 0 15.847	57 30 13.06	4	9010	13149 S11	LD	9505
	4 19	4 2 43.0584	10 45 20.996	42 3 28.97	4	9004	12783 S10	LT	8777
	4 19	4 2 51.0405	18 57 32.347	57 12 18.15	4	9010	13149 S12	LD	9506
	4 19	4 2 51.0584	10 47 13.793	41 42 7.23	4	9004	12783 S11	LT	8778
	4 19	4 2 59.0402	18 54 50.482	56 54 4.17	4	9010	13149 S13	LD	9507
	4 19	4 3 7.0402	18 52 11.666	56 35 25.90	4	9010	13149 S14	LD	9508
	4 20	19 19 55.0426	14 29 44.483	57 38 35.85	4	9006	12239 S 1	SY	8958
	4 20	19 20 3.0400	17 25 27.049	40 21 7.11	4	9008	16825 S 2	FN	9346
	4 20	19 20 3.0427	14 29 37.295	56 53 0.86	4	9006	12239 S 2	SY	8959
	4 20	19 20 11.0401	17 24 1.783	39 48 55.37	4	9008	16825 S 3	BM	9143
	4 20	19 20 11.0430	14 29 30.552	56 7 8.15	4	9006	12239 S 3	SY	8960
	4 20	19 20 19.0423	17 22 38.583	39 16 32.86	4	9008	16825 S 4	BM	9144
	4 20	19 20 19.0434	14 29 23.842	55 20 59.09	4	9006	12239 S 4	SY	8961
	4 20	19 20 27.0404	17 21 16.741	38 43 58.01	4	9008	16825 S 5	BM	9145
	4 20	19 20 27.0436	14 29 17.384	54 34 32.40	4	9006	12239 S 5	SY	8962

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS.NO.
1964	4 20	19 20 35.0404	17 19 56.099	38 11 14.19	9008	16825 S 6	BM	9146
	4 20	19 20 35.0440	14 29 11.115	53 47 51.28	9006	12239 S 6	SY	8963
	4 20	15 20 43.0406	17 18 36.731	37 38 10.98	9008	16825 S 7	BM	9147
	4 20	15 20 43.0442	14 29 4.669	53 0 49.64	9006	12239 S 7	SY	8964
	4 20	19 20 51.0405	17 17 19.051	37 5 2.34	9008	16825 S 8	BM	9148
	4 20	19 24 11.0459	14 27 3.823	31 33 17.39	9006	12240 S 1	NG	8965
	4 20	15 24 19.0459	14 26 59.928	30 42 26.67	9006	12240 S 2	NG	8966
	4 20	15 24 27.0461	14 26 56.386	29 51 44.45	9006	12240 S 3	NG	8967
	4 20	19 24 27.0497	16 49 56.443	21 26 25.98	9008	16826 S 2	AM	9137
	4 20	19 24 35.0461	14 26 52.538	29 0 58.69	9006	12240 S 4	NG	8968
	4 20	19 24 35.0500	16 49 9.672	20 50 47.18	9008	16826 S 3	FN	9138
	4 20	15 24 43.0462	14 26 48.764	28 10 18.13	9006	12240 S 5	NG	8969
	4 20	19 24 43.0501	16 48 23.403	20 15 10.93	9008	16826 S 4	FN	9139
	4 20	19 24 51.0465	14 26 45.510	27 19 35.76	9006	12240 S 6	NG	8970
	4 20	19 24 51.0503	16 47 38.131	19 39 34.11	9008	16826 S 5	FN	9140
	4 20	19 24 59.0504	16 46 53.728	19 3 53.42	9008	16826 S 6	FN	9141
	4 20	19 25 7.0505	16 46 9.760	18 28 12.77	9008	16826 S 7	FN	9142
	4 20	22 6 11.0584	17 35 56.547	31 20 33.48	9004	12817 S 7	LD	9514
	4 20	22 6 19.0335	11 54 58.823	57 16 24.47	9008	16828 S 5	LD	1225
	4 20	22 6 19.0582	17 34 47.561	30 54 21.78	9004	12817 S 8	LD	9515
	4 20	22 6 27.0339	11 57 10.249	56 40 6.01	9008	16828 S 6	LD	2668
	4 20	22 6 27.0585	17 33 39.655	30 28 8.29	9004	12817 S 9	LD	9516
	4 20	22 6 35.0340	11 59 17.850	56 3 34.60	9008	16828 S 7	LD	2669
	4 20	22 6 35.0583	17 32 33.006	30 1 45.04	9004	12817 S10	LD	9517
	4 20	22 6 43.0342	12 1 21.078	55 26 34.53	9008	16828 S 8	LD	1228
	4 20	22 6 43.0584	17 31 27.106	29 35 20.92	9004	12817 S11	LD	9518
	4 20	22 9 15.0594	17 13 28.011	21 4 6.27	9004	12818 S 1	MN	9871
	4 20	22 9 23.0414	12 32 9.692	42 4 49.19	9008	16829 S 1	BM	9275
	4 20	22 9 23.0594	17 12 39.513	20 36 56.16	9004	12818 S 2	MN	9872
	4 20	22 9 31.0414	12 33 18.053	41 22 22.88	9008	16829 S 2	BM	9276
	4 20	22 9 31.0595	17 11 51.452	20 9 45.90	9004	12818 S 3	MN	9873
	4 20	22 9 32.3818	11 35 20.570	26 21 14.46	9006	12245 S 1	JM	9282
	4 20	22 9 39.0417	12 34 24.774	40 39 39.45	9008	16829 S 3	BM	9277
	4 20	22 9 39.0594	17 11 4.300	19 42 32.06	9004	12818 S 4	MN	9874
	4 20	22 9 40.3820	11 36 18.315	25 53 59.81	9006	12245 S 2	JM	9283
	4 20	22 9 47.0419	12 35 29.851	39 56 51.98	9008	16829 S 4	BM	9278
	4 20	22 9 47.0594	17 10 17.805	19 15 21.99	9004	12818 S 5	MN	9875
	4 20	22 9 48.3821	11 37 15.120	25 26 48.43	9006	12245 S 3	KA	9284
	4 20	22 9 55.0421	12 36 33.232	39 13 55.85	9008	16829 S 5	BM	9279
	4 20	22 9 55.0593	17 9 32.109	18 48 10.44	9004	12818 S 6	MN	9876
	4 20	22 9 56.3821	11 38 11.177	24 59 29.95	9006	12245 S 4	KA	9285
	4 20	22 10 3.0425	12 37 34.993	38 30 50.85	9008	16829 S 6	BM	9931
	4 20	22 10 3.0591	17 8 47.024	18 20 56.63	9004	12818 S 7	MN	9877
	4 20	22 10 4.3825	11 39 6.236	24 32 12.86	9006	12245 S 5	KA	9597
	4 20	22 10 11.0427	12 38 35.035	37 47 36.80	9008	16829 S 7	BM	9281

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964	4 20	22 10 12.3826	11 40 1.002	24 4 52.46	4	9006	12245 S 6	KA	9287
	4 20	22 10 20.3825	11 40 54.485	23 37 30.65	4	9006	12245 S 7	KA	9288
	4 21	3 45 35.0726	11 55 1.627	20 18 28.35	4	9004	12827 S 2	BA	564
	4 21	3 45 55.0477	17 34 39.123	53 31 11.17	4	9009	11233 S 2	PG	1241
	4 21	3 45 55.0726	11 56 45.634	19 20 58.91	4	9004	12827 S 3	BA	565
	4 21	3 46 3.0479	17 33 5.789	53 5 20.90	4	9009	11233 S 3	PG	1242
	4 21	3 46 11.0477	17 31 34.115	52 39 12.76	4	9009	11233 S 4	PG	1243
	4 21	3 46 11.0725	11 58 26.583	18 23 35.37	4	9004	12827 S 4	BA	566
	4 21	3 46 19.0477	17 30 4.161	52 12 57.46	4	9009	11233 S 5	PG	1244
	4 21	3 46 27.0478	17 28 36.046	51 46 17.08	4	9009	11233 S 6	PG	1245
	4 21	3 46 27.0730	12 0 3.917	17 26 26.47	4	9004	12827 S 5	BA	567
	4 21	3 46 35.0477	17 27 9.485	51 19 26.63	4	9009	11233 S 7	PG	1246
	4 21	3 46 43.0732	12 1 38.658	16 29 26.46	4	9004	12827 S 6	BA	568
	4 23	20 6 59.0392	16 31 30.693	56 5 53.33	4	9008	16839 S 4	DK	701
	4 23	20 7 7.0392	16 29 40.584	55 27 3.18	4	9008	16839 S 5	DK	702
	4 23	20 7 7.0622	12 8 24.207	53 1 12.02	4	9006	12303 S 3	PG	1247
	4 23	20 7 15.0391	16 27 54.126	54 47 56.34	4	9008	16839 S 6	DK	703
	4 23	20 7 15.0631	12 10 10.760	52 22 37.34	4	9006	12303 S 4	PG	1248
	4 23	20 7 23.0396	16 26 10.819	54 8 24.78	4	9008	16839 S 7	DK	704
	4 23	20 7 23.0630	12 11 53.310	51 43 44.21	4	9006	12303 S 5	PG	1249
	4 23	20 7 31.0397	16 24 30.530	53 28 32.97	4	9008	16839 S 8	DK	705
	4 23	20 7 31.0631	12 13 34.240	51 4 39.15	4	9006	12303 S 6	PG	1250
	4 23	20 7 39.0395	16 22 52.901	52 48 20.73	4	9008	16839 S 9	DK	706
	4 23	20 7 39.0638	12 15 11.809	50 25 2.90	4	9006	12303 S 7	PG	1251
	4 23	20 7 47.0400	16 21 18.692	52 7 50.44	4	9008	16839 S10	NG	707
	4 23	20 7 47.0639	12 16 46.588	49 45 20.11	4	9006	12303 S 8	PG	1252
	4 23	20 7 55.0645	12 18 18.420	49 5 19.82	4	9006	12303 S 9	PG	1253
	4 23	22 52 27.0394	10 45 41.404	50 14 32.08	4	9008	16844 S 2	RD	8911
	4 23	22 52 35.0396	10 47 54.582	49 48 18.85	4	9008	16844 S 3	RD	8912
	4 23	22 52 43.0395	10 50 5.109	49 21 50.62	4	9008	16844 S 4	RD	8913
	4 23	22 52 51.0396	10 52 14.055	48 54 59.61	4	9008	16844 S 5	RD	8914
	4 23	22 52 59.0398	10 54 19.775	48 27 56.91	4	9008	16844 S 6	RD	8915
	4 23	22 52 59.0644	17 36 8.701	43 54 3.18	4	9004	12839 S 5	EM	8905
	4 23	22 53 7.0401	10 56 23.593	48 0 29.89	4	9008	16844 S 7	RD	8916
	4 23	22 53 7.0642	17 34 21.423	43 22 54.47	4	9004	12839 S 6	EM	8906
	4 23	22 53 15.0640	17 32 35.940	42 51 21.38	4	9004	12839 S 7	EM	8907
	4 23	22 53 23.0639	17 30 52.931	42 19 45.70	4	9004	12839 S 8	EM	8908
	4 23	22 53 31.0638	17 29 11.510	41 47 52.88	4	9004	12839 S 9	EM	8909
	4 23	22 53 39.0635	17 27 32.096	41 15 49.47	4	9004	12839 S10	EM	8910
	4 23	22 55 55.0449	11 31 53.437	37 32 11.66	4	9008	16845 S 3	RD	2882
	4 23	22 56 3.0450	11 33 15.200	37 0 21.40	4	9008	16845 S 4	RD	2206
	4 23	22 56 11.0453	11 34 35.722	36 28 19.31	4	9008	16845 S 5	RD	2207
	4 23	22 56 19.0592	17 0 16.527	30 2 17.68	4	9004	12840 S 3	LD	1215
	4 23	22 56 27.0454	11 37 12.432	35 23 54.32	4	9008	16845 S 7	LD	1296
	4 23	22 56 27.0590	16 59 9.909	29 27 35.62	4	9004	12840 S 4	LD	1216

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 4 23	22 56 35.0454	1	11 38 28.266	34 51 29.78	4	9008	16845 S 8	LD	1297
4 23	22 56 35.0590	1	16 58 4.252	28 52 46.54	4	9004	12840 S 5	LD	1217
4 23	22 56 43.0591	1	16 56 59.992	28 17 55.18	4	9004	12840 S 6	LD	2665
4 23	22 56 51.0588	1	16 55 56.977	27 43 4.69	4	9004	12840 S 7	LD	2666
4 26	18 6 11.0481	1	17 49 29.521	37 20 41.97	4	9008	16876 S 1	WI	8971
4 26	18 6 19.0482	1	17 48 11.445	36 55 5.43	4	9008	16876 S 2	WI	9344
4 26	18 6 19.0494	1	16 37 25.316	57 54 49.29	4	9006	12348 S 2	NG	708
4 26	18 6 27.0483	1	17 46 55.418	36 29 20.48	4	9008	16876 S 3	WI	9345
4 26	18 6 27.0496	1	16 35 25.302	57 17 14.51	4	9006	12348 S 3	NG	709
4 26	18 6 35.0483	1	17 45 39.269	36 3 26.17	4	9008	16876 S 4	DK	8974
4 26	18 6 35.0499	1	16 33 28.326	56 39 19.25	4	9006	12348 S 4	NG	710
4 26	18 6 43.0482	1	17 44 24.397	35 37 20.41	4	9008	16876 S 5	DK	8975
4 26	18 6 43.0501	1	16 31 35.125	56 1 1.62	4	9006	12348 S 5	NG	804
4 26	18 6 51.0485	1	17 43 10.957	35 11 8.06	4	9008	16876 S 6	DK	8976
4 26	18 6 51.0504	1	16 29 45.335	55 22 18.91	4	9006	12348 S 6	NG	805
4 26	18 6 59.0486	1	17 41 58.590	34 44 49.09	4	9008	16876 S 7	DK	8977
4 26	18 6 59.0507	1	16 27 58.511	54 43 22.53	4	9006	12348 S 7	NG	712
4 26	18 7 7.0508	1	16 26 15.257	54 3 57.62	4	9006	12348 S 8	NG	713
4 27	19 19 39.0455	1	16 59 19.962	44 23 6.66	4	9008	16898 S 2	WI	8891
4 27	19 19 47.0459	1	16 57 49.926	43 46 33.62	4	9008	16898 S 3	WI	8892
4 27	19 19 55.0462	1	16 56 21.878	43 9 46.78	4	9008	16898 S 4	WI	8893
4 27	19 20 3.0462	1	16 54 55.771	42 32 40.64	4	9008	16898 S 5	WI	9347
4 27	19 20 11.0465	1	16 53 31.509	41 55 27.08	4	9008	16898 S 6	FI	9348
4 27	19 20 19.0466	1	16 52 8.962	41 17 54.83	4	9008	16898 S 7	FI	8896
4 27	19 20 27.0467	1	16 50 48.237	40 40 14.77	4	9008	16898 S 8	FI	8897
4 27	19 20 43.0558	1	13 23 29.659	47 4 2.28	4	9006	12376 S 8	BM	9149
4 27	19 20 59.0562	1	13 24 52.565	45 30 0.84	4	9006	12376 S10	WI	9150
4 27	19 21 7.0565	1	13 25 32.319	44 42 47.21	4	9006	12376 S11	WI	9151
4 27	19 21 15.0570	1	13 26 10.511	43 55 16.32	4	9006	12376 S12	WI	9152
4 27	19 21 23.0573	1	13 26 48.387	43 7 46.08	4	9006	12376 S13	WI	9153
4 27	19 21 31.0577	1	13 27 24.099	42 19 59.88	4	9006	12376 S14	SS	9154
4 27	19 21 39.0580	1	13 27 59.474	41 32 6.21	4	9006	12376 S15	SS	9155
4 27	19 23 23.0554	1	16 27 19.884	26 12 46.55	4	9008	16899 S 2	RD	8917
4 27	19 23 31.0559	1	16 26 29.456	25 32 19.51	4	9008	16899 S 3	RD	9352
4 27	19 23 31.0586	1	13 34 36.605	30 12 53.61	4	9006	12377 S 2	BM	8898
4 27	19 23 39.0562	1	16 25 40.088	24 51 53.77	4	9008	16899 S 4	RD	8919
4 27	19 23 39.0587	1	13 34 59.199	29 24 8.86	4	9006	12377 S 3	BM	8899
4 27	19 23 47.0562	1	16 24 51.942	24 11 23.09	4	9008	16899 S 5	RD	9353
4 27	19 23 47.0590	1	13 35 21.700	28 35 28.27	4	9006	12377 S 4	BM	9349
4 27	19 23 55.0567	1	16 24 4.393	23 30 50.10	4	9008	16899 S 6	RD	8921
4 27	19 23 55.0593	1	13 35 43.094	27 46 53.78	4	9006	12377 S 5	BM	9350
4 27	19 24 3.0568	1	16 23 18.041	22 50 21.69	4	9008	16899 S 7	RD	8922
4 27	19 24 3.0593	1	13 36 3.959	26 58 18.63	4	9006	12377 S 6	AC	8902
4 27	19 24 11.0595	1	13 36 24.389	26 9 50.16	4	9006	12377 S 7	AC	8903
4 27	19 24 19.0574	1	16 21 47.519	21 29 25.79	4	9008	16899 S 9	RD	8923

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 4 27	15 24 19.0599	1	13 36 44.210	25 21 26.87	4	9006	12377 S 8	AC	9351
4 27	22 0 11.0694	1	18 46 59.049	51 35 2.22	4	9004	12928 S 3	GL	929
4 27	22 0 19.0693	1	18 44 28.540	51 15 1.97	4	9004	12928 S 4	GL	930
4 27	22 0 27.0695	1	18 42 0.310	50 54 45.91	4	9004	12928 S 5	GL	931
4 27	22 0 35.0361	1	9 21 18.899	66 19 57.46	4	9008	16902 S 3	PG	1298
4 27	22 0 35.0695	1	18 39 33.930	50 34 4.89	4	9004	12928 S 6	GL	1554
4 27	22 0 43.0361	1	9 25 52.542	66 5 30.72	4	9008	16902 S 4	PG	1299
4 27	22 0 51.0363	1	9 30 22.387	65 50 24.71	4	9008	16902 S 5	PG	1300
4 27	22 0 51.0695	1	18 34 47.634	49 51 47.83	4	9004	12928 S 7	GL	933
4 27	22 0 59.0365	1	9 34 48.776	65 34 34.42	4	9008	16902 S 6	PG	1301
4 27	22 0 59.0694	1	18 32 27.936	49 30 15.67	4	9004	12928 S 8	GL	934
4 27	22 1 7.0367	1	9 39 9.992	65 18 16.20	4	9008	16902 S 7	PG	1302
4 27	22 1 7.0695	1	18 30 10.625	49 8 23.35	4	9004	12928 S 9	GL	935
4 27	22 1 15.0371	1	9 43 27.537	65 1 9.51	4	9008	16902 S 8	PG	1303
4 29	16 3 47.0537	1	18 10 26.332	43 15 35.96	4	9006	12417 S 6	BA	551
4 29	16 3 47.0618	1	11 30 11.597	52 27 36.82	4	9005	10427 S 8	BA	557
4 29	16 3 55.0539	1	18 8 49.633	42 52 33.10	4	9006	12417 S 7	BA	552
4 29	16 4 3.0540	1	18 7 14.732	42 29 16.91	4	9006	12417 S 8	BA	553
4 29	16 4 3.0615	1	11 34 46.846	51 17 23.94	4	9005	10427 S 9	BA	794
4 29	16 4 11.0542	1	18 5 41.114	42 5 56.40	4	9006	12417 S 9	BA	554
4 29	16 4 19.0542	1	18 4 9.180	41 42 18.25	4	9006	12417 S10	BA	555
4 29	16 4 19.0614	1	11 39 9.075	50 5 44.42	4	9005	10427 S10	BA	795
4 29	16 4 27.0542	1	18 2 38.120	41 18 31.63	4	9006	12417 S11	BA	556
4 29	16 4 35.0619	1	11 43 17.251	48 52 57.91	4	9005	10427 S11	BA	2203
4 29	18 58 59.0557	1	16 41 18.423	24 42 0.11	4	9008	16937 S 1	EM	9617
4 29	18 58 59.0606	1	14 1 49.993	32 15 56.60	4	9006	12424 S 1	RD	9610
4 29	18 59 7.0560	1	16 40 27.497	24 4 30.16	4	9008	16937 S 2	EM	9618
4 29	18 59 7.0608	1	14 1 58.938	31 25 49.78	4	9006	12424 S 2	RD	9932
4 29	18 59 15.0562	1	16 39 37.759	23 27 0.43	4	9008	16937 S 3	EM	9619
4 29	18 59 15.0611	1	14 2 7.556	30 35 43.18	4	9006	12424 S 3	TA	9612
4 29	18 59 23.0562	1	16 38 48.916	22 49 25.78	4	9008	16937 S 4	EM	9620
4 29	18 59 23.0614	1	14 2 16.123	29 45 35.50	4	9006	12424 S 4	RD	9613
4 29	18 59 31.0565	1	16 38 0.513	22 11 55.50	4	9008	16937 S 5	WI	9621
4 29	18 59 31.0616	1	14 2 24.060	28 55 33.99	4	9006	12424 S 5	RD	9614
4 29	18 59 39.0566	1	16 37 13.497	21 34 19.62	4	9008	16937 S 6	WI	9622
4 29	18 59 39.0617	1	14 2 32.024	28 5 36.71	4	9006	12424 S 6	EM	9615
4 29	18 59 47.0566	1	16 36 27.138	20 56 45.01	4	9008	16937 S 7	WI	9623
4 29	18 59 47.0622	1	14 2 39.517	27 15 40.31	4	9006	12424 S 7	EM	9616
4 29	21 40 3.0487	1	11 15 23.675	59 23 46.19	4	9008	16940 S 1	GL	943
4 29	21 40 11.0484	1	11 18 10.183	58 52 47.26	4	9008	16940 S 2	GL	944
4 29	21 40 19.0485	1	11 20 52.014	58 21 14.95	4	9008	16940 S 3	GL	1556
4 29	21 40 27.0487	1	11 23 28.909	57 49 18.91	4	9008	16940 S 4	GL	946
4 29	21 40 27.0675	1	17 39 48.688	35 6 26.86	4	9004	12975 S 1	GL	936
4 29	21 40 35.0487	1	11 26 2.522	57 16 57.21	4	9008	16940 S 5	GL	947
4 29	21 40 35.0676	1	17 38 28.734	34 39 41.03	4	9004	12975 S 2	GL	937

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 4 29	21 40 43.0492	1	11 28 31.369	56 44 7.13	9008	16940 S 6	GL	948
4 29	21 40 43.0676	1	17 37 10.467	34 12 50.74	9004	12975 S 3	GL	938
4 29	21 40 51.0676	1	17 35 52.958	33 45 49.36	9004	12975 S 4	GL	939
4 29	21 40 59.0676	1	17 34 36.903	33 18 46.66	9004	12975 S 5	GL	940
4 29	21 41 7.0675	1	17 33 21.944	32 51 35.48	9004	12975 S 6	GL	1555
4 29	21 41 15.0675	1	17 32 8.133	32 24 18.47	9004	12975 S 7	GL	942
4 30	3 15 47.0416	1	18 17 19.335	51 3 14.78	9010	13252 S 4	PG	1234
4 30	3 15 47.0728	1	11 10 32.005	35 35 25.90	9004	12994 S 4	JW	923
4 30	3 15 55.0414	1	18 15 14.845	50 39 52.53	9010	13252 S 5	PG	1235
4 30	3 15 55.0727	1	11 12 1.656	35 9 17.28	9004	12994 S 5	JW	924
4 30	3 16 3.0415	1	18 13 12.329	50 16 7.27	9010	13252 S 6	PG	1236
4 30	3 16 3.0726	1	11 13 29.731	34 42 55.55	9004	12994 S 6	JW	925
4 30	3 16 11.0415	1	18 11 11.867	49 52 5.76	9010	13252 S 7	PG	1237
4 30	3 16 11.0730	1	11 14 55.225	34 16 33.54	9004	12994 S 7	KA	926
4 30	3 16 19.0415	1	18 9 13.393	49 27 50.00	9010	13252 S 8	PG	1238
4 30	3 16 19.0729	1	11 16 21.317	33 50 7.84	9004	12994 S 8	KA	927
4 30	3 16 27.0413	1	18 7 16.741	49 3 15.88	9010	13252 S 9	PG	1239
4 30	3 16 27.0732	1	11 17 45.507	33 23 33.16	9004	12994 S 9	KA	928
4 30	3 16 35.0412	1	18 5 21.925	48 38 28.37	9010	13252 S10	PG	1240
4 30	3 20 35.0659	1	11 51 46.315	19 18 45.91	9004	12995 S 3	WI	9269
4 30	3 20 43.0438	1	17 19 35.190	33 55 21.00	9010	13253 S 1	WI	9624
4 30	3 20 43.0612	1	17 22 15.124	56 31 24.44	9009	11293 S 6	RD	9354
4 30	3 20 43.0659	1	11 52 37.067	18 51 24.42	9004	12995 S 4	WI	9596
4 30	3 20 51.0438	1	17 18 28.659	33 24 3.96	9010	13253 S 2	WI	9625
4 30	3 20 51.0612	1	17 20 34.133	56 5 4.61	9009	11293 S 7	RD	9157
4 30	3 20 51.0658	1	11 53 27.008	18 24 18.18	9004	12995 S 5	KA	9271
4 30	3 20 59.0435	1	17 17 22.707	32 52 34.08	9010	13253 S 3	WI	9626
4 30	3 20 59.0615	1	17 18 54.941	55 38 25.36	9009	11293 S 8	RD	9158
4 30	3 20 59.0662	1	11 54 16.095	17 57 3.67	9004	12995 S 6	KA	9272
4 30	3 21 7.0436	1	17 16 18.158	32 20 56.66	9010	13253 S 4	WI	9627
4 30	3 21 7.0615	1	17 17 17.811	55 11 28.90	9009	11293 S 9	RD	9159
4 30	3 21 7.0660	1	11 55 4.497	17 29 52.53	9004	12995 S 7	FN	450
4 30	3 21 15.0436	1	17 15 14.834	31 49 13.03	9010	13253 S 5	WI	9628
4 30	3 21 15.0610	1	17 15 42.844	54 44 12.27	9009	11293 S10	RD	9160
4 30	3 21 15.0663	1	11 55 52.258	17 2 45.74	9004	12995 S 8	KA	9274
4 30	3 21 23.0433	1	17 14 12.573	31 17 22.32	9010	13253 S 6	WI	9629
4 30	3 21 23.0612	1	17 14 9.824	54 16 42.88	9009	11293 S11	RD	9161
5 1	18 34 19.0587	1	16 53 16.627	24 4 9.38	9008	16947 S 2	EM	14
5 1	18 34 27.0588	1	16 52 25.693	23 29 25.77	9008	16947 S 3	EM	15
5 1	18 34 35.0591	1	16 51 35.442	22 54 42.80	9008	16947 S 4	EM	16
5 1	18 34 43.0593	1	16 50 46.236	22 19 55.97	9008	16947 S 5	NG	17
5 1	18 34 43.0661	1	14 31 23.075	31 35 28.71	9006	12477 S 3	DK	7
5 1	18 34 51.0593	1	16 49 57.711	21 45 9.27	9008	16947 S 6	NG	18
5 1	18 34 51.0662	1	14 31 15.680	30 45 5.88	9006	12477 S 4	EM	8
5 1	18 34 59.0595	1	16 49 10.332	21 10 22.12	9008	16947 S 7	NG	19

Satellite 1963 30D

1 May - 2 May 1964

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964	5 1 18 34 59.0666	1	14 31 8.346	29 54 44.46	9006	12477 S 5	EM	9
	5 1 18 35 7.0596	1	16 48 23.484	20 35 34.79	9008	16947 S 8	NG	20
	5 1 18 35 7.0667	1	14 31 0.994	29 4 24.13	9006	12477 S 6	EM	10
	5 1 18 35 15.0671	1	14 30 53.999	28 14 6.45	9006	12477 S 7	EM	11
	5 1 18 35 23.0672	1	14 30 47.098	27 23 51.79	9006	12477 S 8	EM	12
	5 1 18 35 31.0679	1	14 30 40.426	26 33 41.47	9006	12477 S 9	EM	13
	5 1 21 17 23.0478	1	12 6 53.746	55 26 38.54	9008	16952 S 1	JM	9653
	5 1 21 17 23.0641	1	11 10 11.536	35 42 24.57	9006	12481 S 2	EM	9691
	5 1 21 17 31.0481	1	12 8 48.675	54 48 23.92	9008	16952 S 2	BM	9654
	5 1 21 17 31.0643	1	11 11 31.809	35 16 21.40	9006	12481 S 3	EM	9692
	5 1 21 17 39.0484	1	12 10 40.297	54 9 50.36	9008	16952 S 3	BM	9937
	5 1 21 17 39.0647	1	11 12 50.790	34 50 7.58	9006	12481 S 4	EM	9693
	5 1 21 17 47.0488	1	12 12 28.125	53 30 57.56	9008	16952 S 4	BM	9655
	5 1 21 17 47.0648	1	11 14 8.463	34 23 54.23	9006	12481 S 5	EM	9694
	5 1 21 17 55.0492	1	12 14 13.213	52 51 44.35	9008	16952 S 5	BM	9656
	5 1 21 17 55.0651	1	11 15 25.113	33 57 27.63	9006	12481 S 6	EM	9695
	5 1 21 18 3.0496	1	12 15 55.003	52 12 9.30	9008	16952 S 6	BM	9657
	5 1 21 18 3.0654	1	11 16 40.486	33 31 1.41	9006	12481 S 7	EM	9696
	5 1 21 18 11.0503	1	12 17 33.871	51 32 21.42	9008	16952 S 7	BM	9658
	5 1 21 18 11.0655	1	11 17 54.742	33 4 25.90	9006	12481 S 8	EM	9697
	5 2 19 47 15.0462	1	12 39 29.432	22 2 8.33	9006	12506 S 5	DK	2876
	5 2 19 47 23.0462	1	12 40 8.654	21 21 9.01	9006	12506 S 6	FN	4176
	5 2 19 47 31.0465	1	12 40 47.026	20 40 9.28	9006	12506 S 7	EM	615
	5 2 19 47 39.0468	1	12 41 24.538	19 59 17.79	9006	12506 S 8	EM	616
	5 2 19 47 39.0730	1	15 22 32.458	22 47 31.45	9008	16969 S 3	TA	9648
	5 2 19 47 47.0472	1	12 42 1.260	19 18 29.91	9006	12506 S 9	EM	783
	5 2 19 47 47.0724	1	15 22 4.237	22 0 5.72	9008	16969 S 4	TA	9649
	5 2 19 48 3.0723	1	15 21 9.480	20 25 37.48	9008	16969 S 6	TA	9650
	5 2 19 48 11.0724	1	15 20 43.065	19 38 33.72	9008	16969 S 7	TA	9651
	5 2 19 48 19.0718	1	15 20 16.753	18 51 34.40	9008	16969 S 8	TA	9936
	5 2 19 48 27.0719	1	15 19 51.502	18 4 44.60	9008	16969 S 9	JM	9652
	5 2 22 28 35.0742	1	17 13 7.078	41 19 20.79	9004	13040 S 3	WI	484
	5 2 22 28 43.0508	1	11 8 15.829	41 45 2.69	9008	16977 S 1	BM	397
	5 2 22 28 43.0744	1	17 11 31.251	40 44 52.12	9004	13040 S 4	AM	485
	5 2 22 28 51.0509	1	11 9 53.608	41 16 30.45	9008	16977 S 2	BM	9842
	5 2 22 28 51.0741	1	17 9 57.697	40 10 12.48	9004	13040 S 5	AM	486
	5 2 22 28 59.0511	1	11 11 29.755	40 47 48.50	9008	16977 S 3	BM	9843
	5 2 22 28 59.0740	1	17 8 25.936	39 35 21.76	9004	13040 S 6	AM	487
	5 2 22 29 7.0516	1	11 13 4.179	40 18 54.70	9008	16977 S 4	BM	9844
	5 2 22 29 7.0740	1	17 6 56.043	39 0 21.20	9004	13040 S 7	AM	488
	5 2 22 29 15.0519	1	11 14 36.609	39 49 51.37	9008	16977 S 5	BM	9845
	5 2 22 29 15.0739	1	17 5 27.934	38 25 10.85	9004	13040 S 8	AM	489
	5 2 22 29 23.0521	1	11 16 7.981	39 20 37.74	9008	16977 S 6	BM	9846
	5 2 22 29 23.0736	1	17 4 1.639	37 49 50.53	9004	13040 S 9	AM	490
	5 2 22 29 31.0523	1	11 17 37.529	38 51 14.47	9008	16977 S 7	BM	9847

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 5 3	18 8 27.0608	1	17 10 2.305	27 54 9.60	4	9008	16989 S 4	WI	9679
5 3	18 8 27.0656	1	15 6 49.339	42 6 25.03	4	9006	12526 S 1	RD	9672
5 3	18 8 35.0609	1	17 9 4.604	27 22 30.50	4	9008	16989 S 5	WI	9680
5 3	18 8 35.0656	1	15 6 17.416	41 17 57.15	4	9006	12526 S 2	RD	9673
5 3	18 8 43.0611	1	17 8 8.071	26 50 44.74	4	9008	16989 S 6	WI	9681
5 3	18 8 43.0658	1	15 5 46.416	40 29 18.30	4	9006	12526 S 3	RD	9674
5 3	18 8 51.0613	1	17 7 12.177	26 18 55.52	4	9008	16989 S 7	WI	9945
5 3	18 8 51.0661	1	15 5 16.195	39 40 31.45	4	9006	12526 S 4	RD	9675
5 3	18 8 59.0616	1	17 6 17.288	25 47 0.81	4	9008	16989 S 8	NG	9946
5 3	18 8 59.0666	1	15 4 46.709	38 51 37.20	4	9006	12526 S 5	RD	9676
5 3	18 9 7.0619	1	17 5 23.369	25 15 4.83	4	9008	16989 S 9	NG	9947
5 3	18 9 7.0668	1	15 4 18.202	38 2 38.36	4	9006	12526 S 6	WI	9677
5 3	18 9 15.0619	1	17 4 30.182	24 43 6.07	4	9008	16989 S10	NG	9683
5 3	18 9 15.0672	1	15 3 50.177	37 13 30.64	4	9006	12526 S 7	WI	9678
5 4	21 57 55.0781	1	19 9 44.171	58 28 57.93	4	9004	13093 S 1	MN	491
5 4	21 58 3.0524	1	9 4 52.463	61 45 55.84	4	9008	17030 S 2	BM	508
5 4	21 58 3.0784	1	19 6 21.575	58 11 32.76	4	9004	13093 S 2	MN	492
5 4	21 58 11.0525	1	9 8 38.600	61 33 28.31	4	9008	17030 S 3	EM	509
5 4	21 58 11.0781	1	19 3 1.712	57 53 41.37	4	9004	13093 S 3	MN	493
5 4	21 58 19.0525	1	9 12 22.877	61 20 29.65	4	9008	17030 S 4	EM	510
5 4	21 58 19.0782	1	18 59 44.542	57 35 19.66	4	9004	13093 S 4	KA	494
5 4	21 58 27.0526	1	9 16 4.081	61 7 0.93	4	9008	17030 S 5	EM	511
5 4	21 58 27.0783	1	18 56 30.239	57 16 26.82	4	9004	13093 S 5	KA	495
5 4	21 58 35.0527	1	9 19 43.137	60 52 59.82	4	9008	17030 S 6	EM	512
5 4	21 58 35.0782	1	18 53 18.972	56 57 7.96	4	9004	13093 S 6	KA	496
5 4	21 58 43.0529	1	9 23 19.941	60 38 26.75	4	9008	17030 S 7	EM	513
5 4	21 58 43.0782	1	18 50 10.380	56 37 21.50	4	9004	13093 S 7	KA	497
5 4	21 58 51.0530	1	9 26 55.024	60 23 23.90	4	9008	17030 S 8	EM	514
5 4	22 1 31.0590	1	10 28 27.789	53 45 12.53	4	9008	17031 S 3	WI	8978
5 4	22 1 31.0751	1	17 55 6.313	48 8 24.52	4	9004	13094 S 3	TA	9583
5 4	22 1 39.0590	1	10 31 2.058	53 21 1.84	4	9008	17C31 S 4	WI	8979
5 4	22 1 39.0752	1	17 52 58.001	47 40 18.24	4	9004	13094 S 4	TA	9584
5 4	22 1 47.0593	1	10 33 33.830	52 56 20.14	4	9008	17031 S 5	WI	8980
5 4	22 1 47.0749	1	17 50 52.139	47 11 58.55	4	9004	13094 S 5	TA	9585
5 4	22 1 55.0594	1	10 36 2.726	52 31 22.78	4	9008	17031 S 6	WI	8981
5 4	22 1 55.0750	1	17 48 48.927	46 43 22.16	4	9004	13094 S 6	TA	9586
5 4	22 2 3.0596	1	10 38 29.041	52 6 4.43	4	9008	17031 S 7	WI	8982
5 4	22 2 3.0750	1	17 46 47.823	46 14 27.89	4	9004	13094 S 7	TA	9587
5 4	22 2 11.0598	1	10 40 52.189	51 40 24.33	4	9008	17031 S 8	WI	8983
5 4	22 2 11.0748	1	17 44 48.979	45 45 19.52	4	9004	13094 S 8	AM	9588
5 4	22 2 19.0601	1	10 43 13.375	51 14 21.19	4	9008	17031 S 9	WI	8984
5 4	22 2 19.0748	1	17 42 52.621	45 15 55.27	4	9004	13094 S 9	AM	392
5 5	17 40 43.0570	1	17 40 51.438	37 17 54.03	4	9008	17043 S 2	EM	9967
5 5	17 40 43.0627	1	16 5 42.540	57 59 45.03	4	9006	12555 S 2	EM	9960
5 5	17 40 51.0570	1	17 39 33.153	36 50 44.05	4	9008	17043 S 3	EM	9968

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 5 5	17 40 51.0629	1	16 4 3.452	57 19 25.45	4	9006	12555 S 3	EM	9961
5 5	17 40 59.0572	1	17 38 15.911	36 23 28.06	4	9008	17043 S 4	EM	9969
5 5	17 40 59.0629	1	16 2 27.277	56 38 42.53	4	9006	12555 S 4	EM	9962
5 5	17 41 7.0573	1	17 37 0.180	35 56 2.35	4	9008	17043 S 5	BM	9970
5 5	17 41 7.0632	1	16 0 54.460	55 57 38.80	4	9006	12555 S 5	EM	9963
5 5	17 41 15.0577	1	17 35 45.181	35 28 28.44	4	9008	17043 S 6	BM	9971
5 5	17 41 15.0635	1	15 59 25.066	55 16 12.31	4	9006	12555 S 6	EM	9964
5 5	17 41 23.0577	1	17 34 31.447	35 0 49.09	4	9008	17043 S 7	BM	9972
5 5	17 41 23.0635	1	15 57 58.129	54 34 31.45	4	9006	12555 S 7	EM	9965
5 5	17 41 31.0638	1	15 56 34.146	53 52 28.53	4	9006	12555 S 8	EM	9966
5 6	18 50 59.0649	1	12 20 13.358	64 7 47.37	4	9006	12582 S 3	DK	9973
5 6	18 51 7.0590	1	17 18 20.372	56 56 15.54	4	9008	17059 S 1	DK	9941
5 6	18 51 7.0649	1	12 22 32.733	63 30 24.66	4	9006	12582 S 4	DK	9974
5 6	18 51 15.0588	1	17 15 57.544	56 23 51.87	4	9008	17059 S 2	DK	9967
5 6	18 51 15.0648	1	12 24 46.274	62 52 37.10	4	9006	12582 S 5	DK	9975
5 6	18 51 23.0590	1	17 13 39.128	55 51 6.31	4	9008	17059 S 3	DK	9968
5 6	18 51 23.0653	1	12 26 54.568	62 14 27.07	4	9006	12582 S 6	DK	9976
5 6	18 51 31.0591	1	17 11 23.865	55 17 48.95	4	9008	17059 S 4	RD	9942
5 6	18 51 31.0652	1	12 28 58.383	61 35 54.26	4	9006	12582 S 7	DK	9977
5 6	18 51 39.0595	1	17 9 12.432	54 44 15.30	4	9008	17059 S 5	RD	9943
5 6	18 51 39.0657	1	12 30 57.148	60 56 57.91	4	9006	12582 S 8	DK	9978
5 6	18 51 47.0597	1	17 7 4.426	54 10 16.17	4	9008	17059 S 6	RD	9944
5 6	18 51 7.0648	1	16 13 6.254	28 0 23.67	4	9008	17060 S 5	AC	640
5 6	18 57 7.0727	1	13 14 9.632	30 40 23.23	4	9006	12585 S 2	WI	635
5 6	18 57 15.0652	1	16 12 16.722	27 18 11.13	4	9008	17060 S 6	AC	641
5 6	18 57 23.0654	1	16 11 28.371	26 35 56.45	4	9008	17060 S 7	AC	642
5 6	18 57 23.0730	1	13 15 13.201	29 6 43.76	4	9006	12585 S 4	WI	636
5 6	18 57 31.0656	1	16 10 40.901	25 53 44.10	4	9008	17060 S 8	AC	643
5 6	18 57 31.0734	1	13 15 43.865	28 19 52.51	4	9006	12585 S 5	WI	637
5 6	18 57 39.0658	1	16 9 54.218	25 11 29.59	4	9008	17060 S 9	AC	644
5 6	18 57 39.0738	1	13 16 13.670	27 33 12.09	4	9006	12585 S 6	WI	638
5 6	18 57 47.0741	1	13 16 42.479	26 46 27.86	4	9006	12585 S 7	WI	639
5 7	20 6 59.0686	1	14 6 44.958	43 22 35.07	4	9008	17078 S 2	RD	9986
5 7	20 7 7.0689	1	14 6 52.566	42 33 18.85	4	9008	17078 S 3	RD	9987
5 7	20 7 15.0690	1	14 6 59.950	41 43 57.72	4	9008	17078 S 4	RD	9988
5 7	20 7 15.0721	1	11 51 28.280	28 59 56.68	4	9006	12608 S 1	AC	9979
5 7	20 7 23.0694	1	14 7 6.872	40 54 30.19	4	9008	17078 S 5	RD	9989
5 7	20 7 23.0722	1	11 52 28.584	28 26 11.17	4	9006	12608 S 2	AC	9980
5 7	20 7 31.0695	1	14 7 13.850	40 5 1.45	4	9008	17078 S 6	RD	9990
5 7	20 7 31.0723	1	11 53 27.844	27 52 15.67	4	9006	12608 S 3	AC	9981
5 7	20 7 39.0701	1	14 7 20.264	39 15 17.17	4	9008	17078 S 7	RD	9991
5 7	20 7 39.0725	1	11 54 25.989	27 18 29.48	4	9006	12608 S 4	AC	9982
5 7	20 7 47.0703	1	14 7 26.764	38 25 33.07	4	9008	17078 S 8	RD	9992
5 7	20 7 47.0726	1	11 55 23.187	26 44 36.24	4	9006	12608 S 5	AC	9983
5 7	20 7 55.0728	1	11 56 19.069	26 10 43.45	4	9006	12608 S 6	RD	9984

Satellite 1963 30D

7 May - 8 May 1964

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 5 7	20 8 3.0733	1	11 57 14.301	25 36 48.32	9006	12608 S 7	RD	9985
5 8	15 40 51.0667	1	17 30 54.356	33 39 26.73	9006	12616 S 1	AM	9684
5 8	15 40 59.0668	1	17 29 45.550	33 11 31.37	9006	12616 S 2	AM	9685
5 8	15 41 7.0666	1	17 28 37.894	32 43 29.95	9006	12616 S 3	AM	9686
5 8	15 41 7.0771	1	12 7 37.756	32 46 8.15	9005	10495 S 5	WC	9890
5 8	15 41 15.0669	1	17 27 31.027	32 15 17.31	9006	12616 S 4	AM	9939
5 8	15 41 23.0668	1	17 26 25.235	31 47 0.41	9006	12616 S 5	AM	9688
5 8	15 41 23.0772	1	12 9 55.470	31 29 54.06	9005	10495 S 6	AC	9891
5 8	15 41 31.0673	1	17 25 20.686	31 18 40.55	9006	12616 S 6	EM	9689
5 8	15 41 39.0670	1	17 24 16.981	30 50 8.69	9006	12616 S 7	EM	9690
5 8	15 41 39.0778	1	12 12 7.262	30 13 36.04	9005	10495 S 7	AC	9892
5 8	15 41 55.0790	1	12 14 13.880	28 57 14.79	9005	10495 S 8	AC	9893
5 8	15 42 11.0800	1	12 16 15.069	27 40 58.63	9005	10495 S 9	KA	9894
5 8	15 42 27.0812	1	12 18 11.315	26 24 47.47	9005	10495 S10	KA	9895
5 8	15 46 51.0740	1	16 53 35.529	11 40 51.72	9006	12617 S 4	JW	9883
5 8	15 46 59.0743	1	16 53 1.790	11 11 15.67	9006	12617 S 5	WC	9884
5 8	15 46 59.0853	1	12 41 31.097	5 51 43.25	9005	10496 S 1	JW	9476
5 8	15 47 7.0745	1	16 52 28.652	10 41 41.60	9006	12617 S 6	WC	9885
5 8	15 47 15.0742	1	16 51 55.893	10 12 9.70	9006	12617 S 7	WC	9886
5 8	15 47 15.0858	1	12 42 27.714	4 44 39.04	9005	10496 S 2	DK	9598
5 8	15 47 23.0743	1	16 51 23.686	9 42 40.96	9006	12617 S 8	WC	9887
5 8	15 47 31.0745	1	16 50 51.995	9 13 15.25	9006	12617 S 9	WC	9888
5 8	15 47 31.0861	1	12 43 21.876	3 38 18.79	9005	10496 S 3	DK	9478
5 8	15 47 39.0745	1	16 50 20.795	8 43 49.88	9006	12617 S10	WC	9889
5 8	15 47 47.0862	1	12 44 14.171	2 32 38.75	9005	10496 S 4	DK	9479
5 8	15 48 3.0880	1	12 45 4.430	1 27 47.02	9005	10496 S 5	DK	9480
5 8	15 48 19.0894	1	12 45 52.640	0 23 37.39	9005	10496 S 6	DK	9481
5 8	18 32 19.0697	1	13 39 55.182	32 49 53.70	9006	12625 S 3	SJ	895
5 8	18 32 19.0722	1	16 30 29.726	26 52 18.97	9008	17098 S 4	SJ	907
5 8	18 32 27.0698	1	13 40 15.223	32 1 1.98	9006	12625 S 4	SJ	896
5 8	18 32 27.0726	1	16 29 37.702	26 13 15.23	9008	17098 S 5	SJ	908
5 8	18 32 35.0700	1	13 40 34.570	31 12 15.39	9006	12625 S 5	SJ	897
5 8	18 32 43.0700	1	13 40 53.452	30 23 26.16	9006	12625 S 6	SJ	898
5 8	18 32 43.0729	1	16 27 56.159	24 54 53.31	9008	17098 S 7	SJ	909
5 8	18 32 51.0705	1	13 41 11.978	29 34 37.21	9006	12625 S 7	SJ	899
5 8	18 32 51.0733	1	16 27 6.813	24 15 42.88	9008	17098 S 8	SJ	910
5 8	18 32 59.0706	1	13 41 29.675	28 45 51.21	9006	12625 S 8	SJ	900
5 8	18 32 59.0733	1	16 26 18.461	23 36 28.66	9008	17098 S 9	SJ	911
5 8	18 33 7.0712	1	13 41 47.192	27 57 13.33	9006	12625 S 9	SJ	901
5 8	18 33 7.0739	1	16 25 31.191	22 57 16.28	9008	17098 S10	SJ	912
5 8	21 20 59.0741	1	12 26 19.450	22 44 49.58	9008	17105 S 1	WC	78
5 8	21 20 59.0830	1	16 46 1.850	11 1 24.70	9004	13176 S 6	FI	462
5 8	21 21 7.0744	1	12 27 3.109	22 5 53.78	9008	17105 S 2	WC	79
5 8	21 21 7.0828	1	16 45 34.702	10 32 30.59	9004	13176 S 7	FI	463
5 8	21 21 15.0746	1	12 27 45.809	21 26 56.21	9008	17105 S 3	WC	80

Satellite 1963 30D

8 May - 13 May 1964

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 5 8	21 21 15.0829	1	16 44 59.025	10 3 42.87	4	9004	13176 S 8	F1	464
5 8	21 21 23.0748	1	12 28 27.578	20 48 8.92	4	9008	17105 S 4	WC	81
5 8	21 21 23.0828	1	16 44 23.969	9 34 56.71	4	9004	13176 S 9	F1	465
5 8	21 21 31.0750	1	12 29 8.643	20 9 24.95	4	9008	17105 S 5	WC	82
5 8	21 21 31.0826	1	16 43 49.544	9 6 18.34	4	9004	13176 S10	F1	2199
5 9	16 45 35.0672	1	10 17 55.549	46 43 57.13	4	9005	10520 S 3	DK	229
5 9	16 45 55.0685	1	10 22 24.039	46 1 18.64	4	9005	10520 S 4	DK	230
5 9	16 46 11.0686	1	10 26 45.422	45 17 36.79	4	9005	10520 S 5	DK	770
5 9	16 46 19.0551	1	19 1 8.048	68 45 11.74	4	9006	12640 S 1	F1	9440
5 9	16 46 27.0553	1	18 56 18.758	68 28 20.62	4	9006	12640 S 2	F1	393
5 9	16 46 35.0554	1	18 51 35.354	68 10 50.35	4	9006	12640 S 3	F1	9367
5 9	16 46 43.0555	1	18 46 57.827	67 52 40.36	4	9006	12640 S 4	F1	9368
5 9	16 46 43.0711	1	10 35 4.621	43 47 24.90	4	9005	10520 S 7	AC	771
5 9	16 46 51.0553	1	18 42 26.204	67 33 48.70	4	9006	12640 S 5	F1	9369
5 9	16 46 55.0553	1	18 38 0.179	67 14 18.45	4	9006	12640 S 6	F1	9370
5 9	16 46 59.0729	1	10 39 3.645	43 0 56.18	4	9005	10520 S 8	AC	772
5 9	16 47 7.0557	1	18 33 40.734	66 54 13.07	4	9006	12640 S 7	F1	9371
5 9	16 47 15.0750	1	10 42 55.401	42 13 35.74	4	9005	10520 S 9	AC	4245
5 11	2 28 59.0554	1	17 22 28.202	34 54 29.54	4	9010	13446 S 7	RO	1041
5 11	2 28 59.0838	1	11 48 6.703	20 55 34.33	4	9004	13225 S 5	AM	654
5 11	2 29 7.0549	1	17 21 19.081	34 24 26.17	4	9010	13446 S 8	RO	1042
5 11	2 29 7.0837	1	11 49 0.105	20 27 52.96	4	9004	13225 S 6	AM	790
5 11	2 29 15.0546	1	17 20 11.378	33 54 19.86	4	9010	13446 S 9	RO	1043
5 11	2 29 15.0935	1	11 49 52.815	20 0 11.32	4	9004	13225 S 7	AM	656
5 11	2 29 23.0546	1	17 19 4.390	33 24 2.70	4	9010	13446 S10	RO	1044
5 11	2 29 23.0835	1	11 50 44.882	19 32 31.37	4	9004	13225 S 8	AM	657
5 11	2 29 31.0539	1	17 17 58.689	32 53 37.18	4	9010	13446 S11	RO	1045
5 11	2 29 31.0836	1	11 51 35.769	19 4 52.59	4	9004	13225 S 9	AM	658
5 12	17 27 31.0678	1	17 40 56.925	44 19 31.67	4	9008	17175 S 3	NG	9823
5 12	17 27 31.0755	1	14 57 32.663	64 43 22.44	4	9006	12688 S 3	EH	71
5 12	17 27 39.0679	1	17 39 17.040	43 51 0.46	4	9008	17175 S 4	NG	9824
5 12	17 27 39.0761	1	14 56 43.497	64 1 31.10	4	9006	12688 S 4	EM	72
5 12	17 27 47.0644	1	17 37 38.724	43 22 15.12	4	9008	17175 S 5	NG	9825
5 12	17 27 47.0763	1	14 55 56.211	63 19 22.64	4	9006	12688 S 5	EM	73
5 12	17 27 55.0682	1	17 36 2.715	42 53 16.57	4	9008	17175 S 6	NG	9826
5 12	17 27 55.0765	1	14 55 11.200	62 36 54.38	4	9006	12688 S 6	EM	401
5 12	17 38 3.0683	1	17 34 27.863	42 24 1.97	4	9008	17175 S 7	NG	9827
5 12	17 38 3.0767	1	14 54 28.171	61 54 5.35	4	9006	12688 S 7	EM	75
5 12	17 38 11.0687	1	17 32 54.868	41 54 39.01	4	9008	17175 S 8	NG	9828
5 12	17 38 11.0767	1	14 53 46.841	61 10 55.61	4	9006	12688 S 8	EM	402
5 12	17 38 19.0773	1	14 53 7.002	60 27 35.11	4	9006	12688 S 9	EM	77
5 13	2 4 35.0793	1	17 36 37.823	52 3 11.59	4	9009	11439 S 3	RD	9698
5 13	2 4 35.0908	1	11 53 4.165	20 54 15.21	4	9004	13270 S 1	AM	9489
5 13	2 4 43.0793	1	17 35 7.085	51 38 24.75	4	9009	11439 S 4	RD	9699
5 13	2 4 43.0906	1	11 53 57.554	20 24 45.22	4	9004	13270 S 2	AM	9490

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 5 13	2 4 51.0792	1	17 33 37.872	51 13 23.70	4	9009	11439 S 5	RD	9700
5 13	2 4 59.0907	1	11 55 41.540	19 25 51.93	4	9004	13270 S 4	AM	9491
5 13	2 5 7.0793	1	17 30 43.812	50 22 38.27	4	9009	11439 S 7	RD	9701
5 13	2 5 7.0907	1	11 56 32.439	18 56 27.81	4	9004	13270 S 5	AM	9492
5 13	2 5 15.0794	1	17 29 19.247	49 56 53.75	4	9009	11439 S 8	RD	9702
5 13	2 5 15.0907	1	11 57 22.332	18 27 5.00	4	9004	13270 S 6	AM	9493
5 13	2 5 23.0795	1	17 27 56.358	49 30 57.67	4	9009	11439 S 9	RD	9703
5 13	2 5 23.0906	1	11 58 11.492	17 57 52.45	4	9004	13270 S 7	AM	9494
5 13	2 5 31.0909	1	11 58 59.924	17 28 36.44	4	9004	13270 S 8	AM	9495
5 13	16 0 43.0780	1	17 41 27.963	49 6 21.22	4	9006	12701 S 2	DK	9482
5 13	16 0 43.0796	1	11 21 36.719	37 5 15.90	4	9005	10557 S 1	TA	9848
5 13	16 0 51.0780	1	17 39 31.497	48 37 27.56	4	9006	12701 S 3	EM	9483
5 13	16 0 51.0795	1	11 23 7.664	36 34 54.53	4	9005	10557 S 2	TA	398
5 13	16 0 59.0784	1	17 37 37.261	48 8 15.22	4	9006	12701 S 4	EM	9484
5 13	16 0 59.0793	1	11 24 37.119	36 4 28.96	4	9005	10557 S 3	TA	9849
5 13	16 1 7.0787	1	17 35 45.124	47 38 45.59	4	9006	12701 S 5	EM	9485
5 13	16 1 7.0793	1	11 26 4.793	35 33 53.29	4	9005	10557 S 4	TA	778
5 13	16 1 15.0789	1	17 33 55.364	47 8 59.25	4	9006	12701 S 6	EM	9486
5 13	16 1 15.0793	1	11 27 31.046	35 3 9.59	4	9005	10557 S 5	TA	9851
5 13	16 1 23.0790	1	17 32 7.542	46 38 58.14	4	9006	12701 S 7	EM	9487
5 13	16 1 23.0793	1	11 28 55.625	34 32 30.66	4	9005	10557 S 6	WI	9852
5 13	16 1 31.0793	1	17 30 21.692	46 8 40.39	4	9006	12701 S 8	EM	9488
5 13	16 1 31.0794	1	11 30 18.837	34 1 36.72	4	9005	10557 S 7	WI	779
5 13	16 6 3.0696	1	12 5 20.958	16 19 49.31	4	9005	10558 S 1	YK	9237
5 13	16 6 11.0695	1	12 6 5.794	15 49 6.43	4	9005	10558 S 2	YK	9238
5 13	16 6 19.0695	1	12 6 49.851	15 18 34.31	4	9005	10558 S 3	YK	9239
5 13	16 6 27.0692	1	12 7 33.478	14 48 4.96	4	9005	10558 S 4	YK	9603
5 13	16 6 27.0719	1	16 44 0.377	25 18 1.26	4	9006	12703 S 2	PK	9244
5 13	16 6 35.0693	1	12 8 15.896	14 17 42.34	4	9005	10558 S 5	YK	9241
5 13	16 6 35.0724	1	16 43 8.516	24 42 11.47	4	9006	12703 S 3	PK	9245
5 13	16 6 43.0695	1	12 8 57.921	13 47 22.78	4	9005	10558 S 6	YK	9242
5 13	16 6 43.0724	1	16 42 17.545	24 6 15.86	4	9006	12703 S 4	PK	9246
5 13	16 6 51.0693	1	12 9 33.196	13 17 12.30	4	9005	10558 S 7	YK	9243
5 13	16 6 51.0725	1	16 41 27.312	23 30 20.11	4	9006	12703 S 5	PK	9247
5 13	16 6 59.0729	1	16 40 38.299	22 54 22.89	4	9006	12703 S 6	PK	9248
5 13	16 7 7.0731	1	16 39 50.032	22 18 25.03	4	9006	12703 S 7	YK	9249
5 13	16 7 15.0731	1	16 39 2.579	21 42 28.20	4	9006	12703 S 8	YK	9250
5 14	17 17 39.0797	1	17 1 58.599	23 10 49.08	4	9008	17218 S 2	EM	9836
5 14	17 17 47.0800	1	17 1 9.195	22 39 50.42	4	9008	17218 S 3	DK	9837
5 14	17 17 47.0866	1	15 10 49.522	34 30 59.69	4	9006	12723 S 2	NG	9829
5 14	17 17 55.0799	1	17 0 20.607	22 8 51.56	4	9008	17218 S 4	DK	9838
5 14	17 17 55.0869	1	15 10 18.629	33 42 45.71	4	9006	12723 S 3	NG	9830
5 14	17 18 3.0800	1	16 59 32.682	21 37 45.47	4	9008	17218 S 5	DK	9839
5 14	17 18 3.0874	1	15 9 48.915	32 54 32.79	4	9006	12723 S 4	NG	9831
5 14	17 18 11.0800	1	16 58 45.652	21 6 41.86	4	9008	17218 S 6	DK	9840

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 5 14	17 18 11.0876	1	15 9 19.380	32 6 14.07	9006	12723 S 5	NG	9832
5 14	17 18 19.0805	1	16 57 59.290	20 35 35.91	9008	17218 S 7	DK	9841
5 14	17 18 19.0879	1	15 8 50.967	31 17 56.27	9006	12723 S 6	NG	9833
5 14	17 18 27.0882	1	15 8 22.835	30 29 41.57	9006	12723 S 7	EM	9834
5 14	17 18 35.0886	1	15 7 55.600	29 41 20.44	9006	12723 S 8	EM	9835
5 14	20 3 39.0731	1	13 9 43.012	45 7 8.01	9008	17226 S 2	FI	9496
5 14	20 3 39.0871	1	11 34 8.418	29 25 27.93	9006	12731 S 2	FI	9497
5 14	20 3 47.0734	1	13 10 30.084	44 21 6.55	9008	17226 S 3	FI	9497
5 14	20 3 47.0872	1	11 35 12.025	28 55 40.07	9006	12731 S 3	FI	1
5 14	20 3 55.0736	1	13 11 16.239	43 34 55.28	9008	17226 S 4	FI	9498
5 14	20 3 55.0871	1	11 36 14.776	28 25 52.47	9006	12731 S 4	FI	2
5 14	20 4 3.0738	1	13 12 0.572	42 48 40.33	9008	17226 S 5	FI	9499
5 14	20 4 3.0871	1	11 37 15.957	27 56 1.75	9006	12731 S 5	FI	3
5 14	20 4 11.0740	1	13 12 43.519	42 2 9.92	9008	17226 S 6	FI	9500
5 14	20 4 11.0871	1	11 38 16.420	27 26 13.94	9006	12731 S 6	FI	4
5 14	20 4 19.0742	1	13 13 25.533	41 15 39.33	9008	17226 S 7	FI	9501
5 14	20 4 19.0872	1	11 39 15.898	26 56 16.57	9006	12731 S 7	FI	5
5 14	20 4 27.0743	1	13 14 6.285	40 28 58.14	9008	17226 S 8	FI	9502
5 14	20 4 27.0873	1	11 40 14.195	26 26 19.52	9006	12731 S 8	FI	6
5 15	1 41 7.0923	1	12 5 50.076	17 2 48.77	9004	13303 S 2	EM	64
5 15	1 41 15.0916	1	12 6 36.217	16 31 51.50	9004	13303 S 3	EM	65
5 15	1 41 23.0917	1	12 7 21.823	16 0 57.29	9004	13303 S 4	EM	66
5 15	1 41 31.0795	1	17 27 23.418	43 14 3.00	9009	11468 S 2	NG	255
5 15	1 41 31.0914	1	12 8 6.406	15 30 9.00	9004	13303 S 5	EM	67
5 15	1 41 39.0797	1	17 26 17.118	42 47 41.11	9009	11468 S 3	NG	256
5 15	1 41 39.0914	1	12 8 50.300	14 59 26.53	9004	13303 S 6	EM	68
5 15	1 41 47.0799	1	17 25 12.299	42 21 2.44	9009	11468 S 4	NG	257
5 15	1 41 47.0912	1	12 9 33.517	14 28 47.78	9004	13303 S 7	EM	69
5 15	1 41 55.0801	1	17 24 8.135	41 54 13.49	9009	11468 S 5	NG	258
5 15	1 41 55.0915	1	12 10 16.068	13 58 14.51	9004	13303 S 8	EM	70
5 15	1 42 3.0800	1	17 23 5.333	41 27 14.87	9009	11468 S 6	NG	259
5 15	1 42 11.0800	1	17 22 3.266	41 0 2.85	9009	11468 S 7	NG	260
5 15	1 42 19.0800	1	17 21 2.242	40 32 35.57	9009	11468 S 8	NG	261
5 15	1 44 42.0807	1	17 5 21.143	31 51 53.76	9009	11469 S 1	AM	40
5 15	1 44 43.0898	1	12 22 37.138	3 41 16.37	9004	13304 S 1	WC	9372
5 15	1 44 51.0898	1	12 23 6.284	3 13 12.94	9004	13304 S 2	WC	9373
5 15	1 44 59.0811	1	17 3 53.070	30 51 8.45	9009	11469 S 3	AM	41
5 15	1 44 59.0896	1	12 23 34.863	2 45 12.36	9004	13304 S 3	WC	9374
5 15	1 45 7.0810	1	17 3 10.043	30 20 28.19	9009	11469 S 4	WC	42
5 15	1 45 7.0895	1	12 24 2.592	2 17 22.89	9004	13304 S 4	WC	9375
5 15	1 45 15.0810	1	17 2 27.706	29 49 45.80	9009	11469 S 5	WC	43
5 15	1 45 15.0896	1	12 24 30.348	1 49 36.84	9004	13304 S 5	WC	9376
5 15	1 45 23.0811	1	17 1 46.092	29 18 47.25	9009	11469 S 6	WC	44
5 15	1 45 23.0895	1	12 24 57.296	1 22 2.73	9004	13304 S 6	WC	9949
5 15	1 45 31.0813	1	17 1 5.256	28 47 48.71	9009	11469 S 7	WC	45

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 5 15	1 45 31.0895	1	12 25 23.832	0 54 38.76	4	9004	13304 S 7	WC	9378
5 15	18 24 35.0742	1	12 14 54.391	57 14 1.24	4	9006	12749 S 3	BM	9590
5 15	18 24 43.0741	1	16 45 15.815	54 45 6.65	4	9008	17240 S 2	AC	645
5 15	18 24 43.0743	1	12 16 46.700	56 35 18.91	4	9006	12749 S 4	BM	9591
5 15	18 24 51.0742	1	12 18 35.366	55 56 13.00	4	9006	12749 S 5	JW	9592
5 15	18 24 51.0745	1	16 43 19.068	54 8 33.42	4	9008	17240 S 3	AC	646
5 15	18 24 59.0744	1	12 20 20.452	55 16 51.70	4	9006	12749 S 6	JW	9593
5 15	18 24 59.0748	1	16 41 25.118	53 31 44.11	4	9008	17240 S 4	RD	647
5 15	18 25 7.0748	1	12 22 2.592	54 37 9.96	4	9006	12749 S 7	JW	9594
5 15	18 25 7.0750	1	16 39 34.373	52 54 28.03	4	9008	17240 S 5	RD	648
5 15	18 25 15.0748	1	12 23 41.189	53 57 7.80	4	9006	12749 S 8	JW	9595
5 15	18 25 15.0753	1	16 37 46.646	52 16 59.16	4	9008	17240 S 6	RD	649
5 15	18 29 15.0651	1	12 55 55.380	32 21 1.56	4	9006	12751 S 4	AC	21
5 15	18 29 15.0786	1	16 0 44.886	31 41 0.59	4	9008	17241 S 2	WI	399
5 15	18 29 23.0653	1	12 56 36.482	31 36 10.34	4	9006	12751 S 5	AC	22
5 15	18 29 23.0788	1	15 59 54.558	30 57 32.89	4	9008	17241 S 3	WI	9854
5 15	18 29 31.0650	1	12 57 16.564	30 51 18.12	4	9006	12751 S 6	AC	23
5 15	18 29 31.0792	1	15 59 5.392	30 14 5.10	4	9008	17241 S 4	WI	9855
5 15	18 29 39.0654	1	12 57 56.011	30 6 26.64	4	9006	12751 S 7	AC	24
5 15	18 29 39.0795	1	15 58 17.402	29 30 28.54	4	9008	17241 S 5	WI	780
5 15	18 29 47.0652	1	12 58 34.311	29 21 37.77	4	9006	12751 S 8	AC	396
5 15	18 29 47.0797	1	15 57 30.446	28 47 0.06	4	9008	17241 S 6	WI	9857
5 15	18 29 55.0655	1	12 59 11.444	28 36 46.66	4	9006	12751 S 9	AC	25
5 15	18 29 55.0802	1	15 56 44.212	28 3 22.72	4	9008	17241 S 7	WI	781
5 16	16 58 27.0886	1	16 42 26.954	1 31 1.71	4	9008	17261 S 7	JW	9878
5 16	16 58 43.0889	1	16 41 40.617	0 35 46.42	4	9008	17261 S 9	JW	9879
5 16	16 58 43.1055	1	15 17 45.398	1 15 29.15	4	9006	12768 S 7	AC	498
5 16	16 58 51.0888	1	16 41 18.046	0 8 14.91	4	9008	17261 S10	JW	9880
5 16	16 58 51.1059	1	15 17 27.242	0 35 12.59	4	9006	12768 S 8	AC	499
5 16	16 58 59.0888	1	16 40 55.924	- 0 19 8.06	4	9008	17261 S11	JW	9881
5 16	16 58 59.1061	1	15 17 9.513	- 0 4 50.27	4	9006	12768 S 9	AC	500
5 16	16 59 7.0887	1	16 40 34.230	- 0 46 31.38	4	9008	17261 S12	JW	9882
5 16	16 59 7.1061	1	15 16 52.211	- 0 44 41.91	4	9006	12768 S10	AC	501
5 16	16 59 15.1063	1	15 16 34.870	- 1 24 13.42	4	9006	12768 S11	AC	502
5 17	1 17 23.0843	1	17 27 32.134	38 6 31.34	4	9009	11489 S 1	JW	456
5 17	1 17 23.0952	1	12 18 16.906	13 40 33.53	4	9004	13352 S 1	KA	451
5 17	1 17 31.0845	1	17 26 36.438	37 40 32.76	4	9009	11489 S 2	WI	457
5 17	1 17 31.0949	1	12 18 57.152	13 8 11.04	4	9004	13352 S 2	JW	452
5 17	1 17 39.0845	1	17 25 41.735	37 14 25.03	4	9009	11489 S 3	WI	458
5 17	1 17 39.0947	1	12 19 36.680	12 36 1.60	4	9004	13352 S 3	JW	1530
5 17	1 17 47.0848	1	17 24 47.475	36 48 6.15	4	9009	11489 S 4	WI	459
5 17	1 17 55.0849	1	17 23 54.525	36 21 42.86	4	9009	11489 S 5	WI	460
5 17	1 17 55.0946	1	12 20 53.497	11 31 56.92	4	9004	13352 S 5	JW	453
5 17	1 18 3.0850	1	17 23 2.347	35 55 9.74	4	9009	11489 S 6	WI	461
5 17	1 18 3.0943	1	12 21 30.974	11 0 4.85	4	9004	13352 S 6	JW	454

DATE Y M D	TIME (A-I) F M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964	5 17	1 18 11.0852	17 22 10.706	35 28 24.76	4	9009	11489 S 7	WI	1531
5 17	1 18 11.0944	1 12 22 7.788	12 22 7.788	10 28 21.49	4	9004	13352 S 7	JW	455
5 17	1 21 7.0801	1 17 6 23.381	17 6 23.381	25 9 34.49	4	9009	11490 S 1	FI	472
5 17	1 21 7.0940	1 12 33 8.358	12 33 8.358	- 0 34 13.33	4	9004	13353 S 1	FI	1533
5 17	1 21 15.0803	1 17 5 47.584	17 5 47.584	24 40 13.34	4	9009	11490 S 2	FI	473
5 17	1 21 15.0939	1 12 33 32.321	12 33 32.321	- 1 2 42.39	4	9004	13353 S 2	FI	467
5 17	1 21 23.0806	1 17 5 12.897	17 5 12.897	24 10 43.78	4	9009	11490 S 3	FI	474
5 17	1 21 23.0939	1 12 33 56.038	12 33 56.038	- 1 30 59.34	4	9004	13353 S 3	FI	468
5 17	1 21 31.0810	1 17 4 38.609	17 4 38.609	23 41 11.40	4	9009	11490 S 4	FI	475
5 17	1 21 31.0938	1 12 34 19.347	12 34 19.347	- 1 59 6.94	4	9004	13353 S 4	FI	469
5 17	1 21 35.0807	1 17 4 4.549	17 4 4.549	23 11 34.43	4	9009	11490 S 5	FI	476
5 17	1 21 39.0940	1 12 34 42.123	12 34 42.123	- 2 27 7.04	4	9004	13353 S 5	FI	1534
5 17	1 21 47.0810	1 17 3 31.498	17 3 31.498	22 41 50.30	4	9009	11490 S 6	FI	477
5 17	1 21 47.0939	1 12 35 4.474	12 35 4.474	- 2 55 0.27	4	9004	13353 S 6	FI	470
5 17	1 21 55.0810	1 17 2 58.886	17 2 58.886	22 12 2.39	4	9009	11490 S 7	FI	478
5 17	1 21 55.0936	1 12 35 26.592	12 35 26.592	- 3 22 38.28	4	9004	13353 S 7	FI	1535
5 17	6 49 7.0809	1 17 51 28.945	17 51 28.945	42 1 19.61	4	9012	13604 S 3	WC	403
5 17	6 49 15.0808	1 17 50 10.726	17 50 10.726	41 37 24.36	4	9012	13604 S 4	WC	404
5 17	6 49 23.0813	1 17 48 53.451	17 48 53.451	41 13 20.04	4	9012	13604 S 5	TA	83
5 17	6 49 26.2111	1 12 33 57.072	12 33 57.072	44 28 4.35	4	9001	15493 S 3	DK	627
5 17	6 49 31.0811	1 17 47 37.340	17 47 37.340	40 49 4.93	4	9012	13604 S 6	TA	84
5 17	6 49 34.2094	1 12 35 9.380	12 35 9.380	43 44 55.06	4	9001	15493 S 4	DK	628
5 17	6 49 38.0812	1 17 46 22.433	17 46 22.433	40 24 40.93	4	9012	13604 S 7	TA	85
5 17	6 49 42.2095	1 12 36 19.653	12 36 19.653	43 1 33.59	4	9001	15493 S 5	NG	629
5 17	6 49 47.0814	1 17 45 8.426	17 45 8.426	40 0 6.05	4	9012	13604 S 8	TA	86
5 17	6 49 50.2101	1 12 37 28.025	12 37 28.025	42 18 6.53	4	9001	15493 S 6	NG	630
5 17	6 49 55.0814	1 17 43 55.769	17 43 55.769	39 35 22.01	4	9012	13604 S 9	TA	87
5 17	6 49 58.2103	1 12 38 34.729	12 38 34.729	41 34 32.24	4	9001	15493 S 7	NG	631
5 17	20 52 15.0832	1 12 10 47.857	12 10 47.857	26 53 12.63	4	9008	17292 S 1	RD	235
5 17	20 52 19.0939	1 16 45 31.119	16 45 31.119	15 37 34.53	4	9004	13364 S 1	AC	774
5 17	20 52 27.0831	1 12 11 40.030	12 11 40.030	26 16 1.15	4	9008	17292 S 2	RD	236
5 17	20 52 27.0942	1 16 44 49.011	16 44 49.011	15 7 17.43	4	9004	13364 S 2	AC	231
5 17	20 52 35.0832	1 12 12 31.133	12 12 31.133	25 38 51.16	4	9008	17292 S 3	RD	237
5 17	20 52 35.0942	1 16 44 7.277	16 44 7.277	14 37 4.29	4	9004	13364 S 3	AC	775
5 17	20 52 43.0833	1 12 13 21.294	12 13 21.294	25 1 47.49	4	9008	17292 S 4	RD	238
5 17	20 52 43.0942	1 16 43 26.464	16 43 26.464	14 6 54.68	4	9004	13364 S 4	AC	776
5 17	20 52 51.0831	1 12 14 10.368	12 14 10.368	24 24 37.82	4	9008	17292 S 5	RD	239
5 17	20 52 51.0944	1 16 42 46.028	16 42 46.028	13 36 48.61	4	9004	13364 S 5	AC	232
5 17	20 52 59.0835	1 12 14 58.427	12 14 58.427	23 47 33.31	4	9008	17292 S 6	RD	240
5 17	20 52 59.0944	1 16 42 6.577	16 42 6.577	13 6 46.77	4	9004	13364 S 6	RD	233
5 17	20 53 7.0833	1 12 15 45.462	12 15 45.462	23 10 33.30	4	9008	17292 S 7	RD	241
5 17	20 53 7.0942	1 16 41 27.629	16 41 27.629	12 36 45.86	4	9004	13364 S 7	RD	234
5 18	16 20 51.0811	1 17 39 48.864	17 39 48.864	65 9 34.30	4	9006	12799 S 2	FI	9993
5 18	16 20 51.0818	1 18 7 39.373	18 7 39.373	42 31 22.52	4	9008	17301 S 5	KA	9717
5 18	16 20 59.0811	1 17 36 19.879	17 36 19.879	64 42 1.07	4	9006	12799 S 3	FI	9994

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964	16 20 59.0819	1	18 6 6.029	42 9 21.22	9008	17301 S 6	KA	9718
5 18	16 21 7.0816	1	17 32 56.549	64 13 57.52	9006	12799 S 4	FI	9995
5 18	16 21 7.0820	1	18 4 33.696	41 47 20.78	9008	17301 S 7	KA	9948
5 18	16 21 15.0817	1	17 29 40.083	63 45 11.41	9006	12799 S 5	FI	9996
5 18	16 21 15.0821	1	18 3 1.990	41 25 1.98	9008	17301 S 8	AM	395
5 18	16 21 23.0817	1	17 26 28.309	63 16 6.27	9006	12799 S 6	FI	9997
5 18	16 21 23.0821	1	18 1 32.366	41 2 36.52	9008	17301 S 9	KA	9719
5 18	16 21 31.0819	1	17 23 22.906	62 46 27.96	9006	12799 S 7	FI	9998
5 18	16 21 39.0821	1	17 20 23.000	62 16 24.15	9006	12799 S 8	FI	9999
5 18	16 23 47.0821	1	16 42 36.990	53 17 20.88	9006	12800 S 2	KA	9704
5 18	16 23 55.0824	1	16 40 46.946	52 40 27.50	9006	12800 S 3	KA	9795
5 18	16 24 3.0791	1	17 35 37.108	33 3 36.51	9008	17302 S 2	KA	9710
5 18	16 24 3.0826	1	16 38 59.797	52 3 22.45	9006	12800 S 4	KA	9706
5 18	16 24 11.0791	1	17 34 30.317	32 38 21.57	9008	17302 S 3	KA	9711
5 18	16 24 11.0832	1	16 37 15.182	51 25 50.98	9006	12800 S 5	KA	9707
5 18	16 24 19.0792	1	17 33 24.821	32 13 5.81	9008	17302 S 4	KA	9712
5 18	16 24 19.0836	1	16 35 33.574	50 48 5.86	9006	12800 S 6	KA	9708
5 18	16 24 27.0797	1	17 32 20.213	31 47 37.64	9008	17302 S 5	KA	9713
5 18	16 24 27.0836	1	16 33 54.308	50 9 59.40	9006	12800 S 7	KA	9709
5 18	16 24 35.0798	1	17 31 16.505	31 22 11.39	9008	17302 S 6	KA	9714
5 18	16 24 43.0798	1	17 30 13.870	30 56 36.10	9008	17302 S 7	KA	9715
5 18	16 24 51.0800	1	17 29 11.733	30 30 53.14	9006	17302 S 8	KA	9716
5 18	19 9 47.0869	1	10 54 45.040	50 25 32.87	9006	12809 S 2	WI	242
5 18	19 9 55.0795	1	14 20 11.802	69 51 54.11	9008	17310 S 1	WI	248
5 18	19 9 55.0869	1	10 56 54.822	49 57 16.98	9006	12809 S 3	WI	243
5 18	19 10 3.0799	1	14 20 7.228	69 11 39.83	9008	17310 S 2	JW	249
5 18	19 10 3.0869	1	10 59 1.986	49 28 38.38	9006	12809 S 4	WI	244
5 18	19 10 11.0801	1	14 20 2.294	68 31 3.80	9008	17310 S 3	JW	250
5 18	19 10 11.0867	1	11 1 6.532	48 59 43.57	9006	12809 S 5	WI	245
5 18	19 10 19.0802	1	14 19 57.316	67 50 13.34	9008	17310 S 4	JW	251
5 18	19 10 19.0866	1	11 3 8.582	48 30 35.95	9006	12809 S 6	WI	246
5 18	19 10 27.0805	1	14 19 53.573	67 9 1.81	9008	17310 S 5	WI	252
5 18	19 10 27.0869	1	11 5 8.183	48 1 10.33	9006	12809 S 7	WI	247
5 18	19 10 35.0810	1	14 19 48.949	66 27 37.47	9008	17310 S 6	NG	253
5 18	19 10 43.0813	1	14 19 44.730	65 45 53.51	9008	17310 S 7	NG	254
5 18	19 16 51.0941	1	14 17 44.221	29 42 39.45	9008	17311 S 4	AM	34
5 18	19 16 51.0998	1	12 6 12.630	21 25 41.28	9006	12812 S 3	BM	88
5 18	19 16 59.0942	1	14 17 42.068	28 53 20.50	9008	17311 S 5	AM	35
5 18	19 16 59.0998	1	12 6 58.443	20 51 13.81	9006	12812 S 4	BM	89
5 18	19 17 7.0944	1	14 17 39.850	28 4 0.30	9008	17311 S 6	AM	400
5 18	19 17 7.0999	1	12 7 43.175	20 16 54.33	9006	12812 S 5	JW	405
5 18	19 17 15.0946	1	14 17 37.792	27 14 45.04	9008	17311 S 7	AM	36
5 18	19 17 15.1002	1	12 8 27.601	19 42 32.93	9006	12812 S 6	JW	91
5 18	19 17 23.0950	1	14 17 35.565	26 25 46.47	9008	17311 S 8	AM	37
5 18	19 17 23.1002	1	12 9 10.973	19 8 17.79	9006	12812 S 7	JW	92

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) RMS D M S S	STATION	FRAME NO.	MS	OBS.NO.
1964 5 18	15 17 31.0950	1	14 17 33.162	25 36 45.07	9008	17311 S 9	AM	38
5 18	15 17 31.1004	1	12 9 53.604	18 34 8.14	9006	12812 S 8	JW	93
5 18	19 17 39.0954	1	14 17 31.139	24 47 43.79	9008	17311 S 10	AM	39
5 18	19 17 39.1007	1	12 10 35.272	17 59 58.92	9006	12812 S 9	JW	94
5 18	22 2 43.0858	1	11 36 12.639	23 25 32.90	9008	17318 S 4	AC	503
5 18	22 2 43.1027	1	15 58 48.826	26 54 20.88	9004	13393 S 4	JW	479
5 18	22 2 51.0862	1	11 37 5.237	22 58 42.13	9008	17318 S 5	AC	504
5 18	22 2 51.1028	1	15 58 0.097	26 11 54.60	9004	13393 S 5	WI	480
5 18	22 2 59.0860	1	11 37 56.473	22 31 57.38	9008	17318 S 6	AC	505
5 18	22 2 59.1028	1	15 57 12.423	25 29 30.51	9004	13393 S 6	WI	481
5 18	22 3 7.0856	1	11 38 47.391	22 5 6.24	9008	17318 S 7	BM	506
5 18	22 3 7.1026	1	15 56 25.888	24 47 16.93	9004	13393 S 7	WI	482
5 18	22 3 15.0859	1	11 39 37.408	21 38 24.71	9004	17318 S 8	BM	507
5 18	22 3 15.1030	1	15 55 40.184	24 5 3.04	9008	13393 S 8	WI	483
5 22	21 10 55.1105	1	16 43 23.736	32 47 48.79	9004	13433 S 7	NG	784
5 22	21 11 7.0931	1	11 26 18.715	33 44 15.67	9008	17374 S 5	NG	622
5 22	21 11 7.1105	1	16 42 13.793	32 11 21.56	9004	13433 S 8	NG	618
5 22	21 11 15.0933	1	11 27 31.826	33 14 24.93	9008	17374 S 5	DK	623
5 22	21 11 15.1108	1	16 41 4.985	31 34 52.51	9004	13433 S 9	NG	785
5 22	21 11 23.0936	1	11 28 43.869	32 44 30.50	9008	17374 S 6	DK	624
5 22	21 11 23.1109	1	16 39 57.657	30 58 18.79	9004	13433 S 10	NG	620
5 22	21 11 31.0934	1	11 29 54.299	32 14 29.38	9008	17374 S 7	DK	625
5 22	21 11 31.1111	1	16 38 51.855	32 21 42.76	9004	13433 S 11	NG	621
5 22	21 11 39.0929	1	11 31 3.823	31 44 24.03	9008	17374 S 8	DK	626
5 23	16 41 55.0846	1	16 6 10.109	77 6 56.20	9006	12839 S 2	SJ	902
5 23	16 41 55.0895	1	18 20 25.467	51 56 59.80	9008	17386 S 2	SU	689
5 23	16 42 3.0853	1	16 2 3.091	76 34 15.28	9006	12839 S 3	SJ	903
5 23	16 42 15.0853	1	15 54 40.300	75 27 29.75	9006	12839 S 5	SJ	904
5 23	16 42 19.0901	1	18 13 44.194	50 49 22.36	9008	17386 S 5	SU	690
5 23	16 42 27.0857	1	15 51 21.527	74 53 23.61	9006	12839 S 6	SJ	905
5 23	16 42 27.0904	1	18 11 34.676	50 26 14.46	9008	17386 S 6	SU	691
5 23	16 42 35.0863	1	15 48 14.134	74 18 50.07	9006	12839 S 7	SJ	906
5 23	16 42 35.0909	1	18 9 27.540	50 2 48.20	9008	17386 S 7	SU	692
5 23	16 42 43.0911	1	18 7 22.013	49 39 2.21	9008	17386 S 8	SU	693
5 23	16 42 51.0913	1	18 5 18.645	49 15 5.00	9008	17386 S 9	SU	694
5 26	14 43 39.0919	1	17 36 50.585	42 14 6.87	9006	12906 S 1	WS	9953
5 26	14 43 47.0922	1	17 35 18.518	41 46 15.95	9006	12906 S 2	WS	9954
5 26	14 43 47.1002	1	17 36 36.191	37 37 50.83	9005	15639 S 1	YK	9357
5 26	14 43 55.0926	1	17 33 48.000	41 18 29.63	9006	12906 S 3	NG	9955
5 26	14 43 55.1003	1	11 38 3.677	37 4 6.32	9005	10639 S 2	YK	9358
5 26	14 44 3.0928	1	17 32 19.053	40 50 26.58	9006	12906 S 4	NG	9956
5 26	14 44 3.1002	1	11 39 29.354	36 30 17.30	9005	10639 S 3	YK	9253
5 26	14 44 11.0930	1	17 30 51.844	40 22 11.54	9006	12906 S 5	NG	777
5 26	14 44 11.1002	1	11 40 53.223	35 56 22.14	9005	10639 S 4	YK	9359
5 26	14 44 19.0933	1	17 29 25.769	39 53 43.68	9006	12906 S 6	NG	9958

Satellite 1963 30D

26 May - 28 May 1964

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 5 26	14 44 27.0934	1	17 28 1.479	39 25 7.58	9006	12906 S 7	NG	9959
5 26	14 48 35.1008	1	12 14 34.080	17 8 56.15	9005	10640 S 1	NG	632
5 26	14 48 43.1008	1	12 15 17.798	16 35 37.03	9005	10640 S 2	NG	633
5 26	14 48 51.1008	1	12 16 0.518	16 2 23.46	9005	10640 S 3	NG	786
5 26	14 48 59.1008	1	12 16 42.759	15 29 17.05	9005	10640 S 4	NG	1540
5 26	14 49 7.1010	1	16 51 2.979	21 31 0.37	9006	12908 S 1	NG	9938
5 26	14 49 15.1014	1	16 50 16.384	20 59 7.66	9006	12908 S 2	NG	9660
5 26	14 49 23.1015	1	16 49 30.915	20 27 19.88	9006	12908 S 3	NG	9661
5 26	14 49 31.1016	1	16 48 46.151	19 55 31.25	9006	12908 S 4	NG	9662
5 26	14 49 39.1018	1	16 48 1.721	19 23 42.23	9006	12908 S 5	AM	9663
5 26	14 49 47.1014	1	16 47 18.605	18 51 52.10	9006	12908 S 6	AM	9664
5 26	14 49 55.1014	1	16 46 35.827	18 20 5.34	9006	12908 S 7	AM	9665
5 28	3 21 23.1351	1	13 40 31.190	42 54 35.46	9007	13179 S 4	LT	9211
5 28	3 21 26.0292	1	16 10 22.032	-15 9 34.01	9001	15693 S 3	LT	9204
5 28	3 21 34.0281	1	16 10 9.104	-15 35 36.14	9001	15693 S 4	LT	9205
5 28	3 21 42.0275	1	16 9 56.197	-16 1 26.90	9001	15693 S 5	LT	9206
5 28	3 21 50.0286	1	16 9 34.613	-16 27 13.65	9001	15693 S 6	LT	9207
5 28	3 21 55.1344	1	13 40 34.261	41 0 52.67	9007	13179 S 6	LT	9212
5 28	3 21 58.0292	1	16 9 31.448	-16 52 56.16	9001	15693 S 7	LT	9208
5 28	3 22 6.0291	1	16 9 19.654	-17 18 21.20	9001	15693 S 8	LT	9209
5 28	3 22 11.1349	1	13 40 35.374	40 3 0.20	9007	13179 S 7	LT	9213
5 28	3 22 14.0280	1	16 9 7.877	-17 43 48.34	9001	15693 S 9	LT	9210
5 28	3 22 27.1346	1	13 40 34.796	39 4 18.31	9007	13179 S 8	LT	788
5 28	3 22 43.1348	1	13 40 34.052	38 4 51.99	9007	13179 S 9	LT	9215
5 28	5 57 4.5269	1	12 48 2.982	42 14 3.50	9001	15702 S 2	KA	527
5 28	5 57 7.0963	1	17 39 35.843	38 1 32.23	9012	13622 S 5	AM	59
5 28	5 57 12.5254	1	12 49 1.162	41 29 42.78	9001	15702 S 3	KA	528
5 28	5 57 15.0966	1	17 38 28.439	37 37 13.60	9012	13622 S 6	AM	60
5 28	5 57 20.5242	1	12 49 57.894	40 45 15.43	9001	15702 S 4	KA	529
5 28	5 57 23.0966	1	17 37 22.185	37 12 43.70	9012	13622 S 7	AM	61
5 28	5 57 28.5235	1	12 50 52.809	40 0 38.69	9001	15702 S 5	KA	1537
5 28	5 57 31.0968	1	17 36 17.172	36 48 11.52	9012	13622 S 8	AM	62
5 28	5 57 36.5229	1	12 51 46.282	39 15 59.58	9001	15702 S 6	KA	531
5 28	5 57 35.0969	1	13 5 12.885	36 23 26.07	9012	13622 S 9	EM	63
5 28	6 0 11.4631	1	13 5 8.123	24 50 35.78	9001	15703 S 4	AC	9576
5 28	6 0 19.0991	1	17 16 47.609	27 45 45.00	9012	13623 S 2	WC	46
5 28	6 0 19.4611	1	13 5 39.964	24 6 31.02	9001	15703 S 5	JW	9577
5 28	6 0 27.0994	1	17 16 0.212	27 18 52.18	9012	13623 S 3	WC	47
5 28	6 0 27.4594	1	13 6 10.824	23 22 35.19	9001	15703 S 6	JW	9578
5 28	6 0 35.0996	1	17 15 14.004	26 51 54.50	9012	13623 S 4	JW	48
5 28	6 0 35.4575	1	13 6 41.108	22 38 48.24	9001	15703 S 7	WI	9579
5 28	6 0 43.0997	1	17 14 28.410	26 24 53.25	9012	13623 S 5	JW	49
5 28	6 0 43.4560	1	13 7 10.631	21 55 6.28	9001	15703 S 8	WI	9580
5 28	6 0 51.0999	1	17 13 43.277	25 57 47.53	9012	13623 S 6	JW	50
5 28	6 0 51.4549	1	13 7 39.595	21 11 36.23	9001	15703 S 9	WI	9581

Satellite 1963 30D

28 May - 30 May 1964

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 5 28	6 0 55.1000	1	17 12 58.913	25 30 38.23	9012	13623 S 7	JH	51
5 28	6 0 59.4524	1	13 8 7.584	20 28 10.07	9001	15703 S10	WI	9582
5 29	18 16 35.0936	1	14 47 59.673	70 55 2.81	9008	17442 S 5	BM	28
5 29	18 16 39.2513	1	10 54 52.452	52 17 22.49	9006	12943 S 1	AC	52
5 29	18 16 43.0936	1	14 47 5.340	70 16 3.47	9008	17442 S 6	BM	29
5 29	18 16 47.2513	1	10 57 8.581	51 48 47.25	9006	12943 S 2	AC	53
5 29	18 16 51.0940	1	14 46 13.727	69 36 48.96	9008	17442 S 7	BM	30
5 29	18 16 55.2511	1	10 59 21.609	51 19 53.76	9006	12943 S 3	AC	54
5 29	18 16 59.0941	1	14 45 24.963	68 57 10.50	9008	17442 S 8	BM	31
5 29	18 17 3.2511	1	11 1 32.050	50 50 43.58	9006	12943 S 4	BM	55
5 29	18 17 7.0943	1	14 44 38.715	68 17 13.14	9008	17442 S 9	BM	32
5 29	18 17 11.2510	1	11 3 39.641	50 21 15.45	9006	12943 S 5	BM	56
5 29	18 17 15.0948	1	14 43 54.853	67 37 5.14	9008	17442 S10	BM	33
5 29	18 17 19.2511	1	11 5 44.627	49 51 31.61	9006	12943 S 6	BM	57
5 29	18 17 27.2511	1	11 7 46.780	49 21 28.28	9006	12943 S 7	BM	58
5 29	18 19 47.1033	1	14 34 49.167	53 59 22.75	9008	17443 S 3	DK	429
5 29	18 19 55.1034	1	14 34 30.034	53 13 59.39	9008	17443 S 4	DK	430
5 29	18 20 1.7219	1	11 39 44.028	38 56 56.25	9006	12944 S 4	DK	422
5 29	18 20 3.1034	1	14 34 11.568	52 28 3.38	9008	17443 S 5	DK	431
5 29	18 20 9.7219	1	11 41 3.796	38 22 49.91	9006	12944 S 5	DK	423
5 29	18 20 11.1047	1	14 33 53.499	51 41 59.40	9008	17443 S 6	DK	432
5 29	18 20 17.7220	1	11 42 22.079	37 48 35.00	9006	12944 S 6	DK	769
5 29	18 20 19.1042	1	14 33 36.284	50 55 44.61	9008	17443 S 7	DK	433
5 29	18 20 25.7219	1	11 43 38.804	37 14 16.10	9006	12944 S 7	NG	425
5 29	18 20 27.1041	1	14 33 19.349	50 9 19.51	9008	17443 S 8	DK	434
5 29	18 20 33.7222	1	11 44 53.535	36 39 49.94	9006	12944 S 8	NG	426
5 29	18 20 35.1047	1	14 33 2.984	49 22 42.35	9008	17443 S 9	DK	435
5 29	18 20 41.7224	1	11 46 6.872	36 5 16.97	9006	12944 S 9	NG	427
5 29	18 20 49.7219	1	11 47 19.358	35 30 35.14	9006	12944 S10	DK	428
5 29	18 22 58.8547	1	12 3 43.685	26 3 19.22	9006	12945 S 5	AM	659
5 29	18 23 6.8550	1	12 4 35.320	25 28 2.23	9006	12945 S 6	AM	660
5 29	18 23 7.1083	1	14 29 3.131	34 11 46.89	9008	17444 S 3	BM	664
5 29	18 23 14.8552	1	12 5 25.552	24 52 42.59	9006	12945 S 7	AM	661
5 29	18 23 15.1080	1	14 28 53.509	33 23 7.93	9008	17444 S 4	BM	791
5 29	18 23 22.8555	1	12 6 14.902	24 17 25.70	9006	12945 S 8	BM	662
5 29	18 23 23.1083	1	14 28 43.659	32 34 34.39	9008	17444 S 5	BM	666
5 29	18 23 31.8558	1	12 7 3.569	23 42 3.83	9006	12945 S 9	BM	663
5 29	18 23 31.1088	1	14 28 34.193	31 45 56.50	9008	17444 S 6	BM	792
5 29	18 23 39.1088	1	14 28 24.725	30 57 21.24	9008	17444 S 7	BM	668
5 30	2 57 30.9232	1	14 53 13.875	-17 40 44.48	9010	13653 S 7	WC	650
5 30	2 57 31.1222	1	14 5 1.692	39 48 7.44	9007	13200 S10	LT	9216
5 30	2 57 35.1223	1	14 4 57.399	39 18 27.29	9007	13200 S11	LT	9217
5 30	2 57 46.9216	1	14 52 55.914	-18 45 59.57	9010	13653 S 9	WC	789
5 30	2 57 47.1221	1	14 4 52.816	38 48 35.06	9007	13200 S12	LT	9218
5 30	2 57 54.9197	1	14 52 47.002	-19 18 16.95	9010	13653 S10	AM	651

DATE Y M D	TIME (A-I) T M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964	5 30	2 57 55.1224	14 4 48.494	38 18 32.51	9007	13200 S13	LT	9219
	5 30	2 58 2.9185	14 52 38.321	-19 50 17.89	9010	13653 S11	AM	652
	5 30	2 58 3.1221	14 4 43.979	37 48 15.73	9007	13200 S14	LT	9220
	5 30	2 58 10.9175	14 52 29.613	-20 22 3.22	9013	13653 S12	AM	653
	5 30	2 58 11.1223	14 4 39.583	37 17 48.82	9007	13200 S15	LT	9221
	5 30	16 44 19.1111	13 57 57.774	48 30 14.17	9006	12965 S 3	KA	519
	5 30	16 44 27.1111	13 58 9.628	47 43 19.10	9006	12965 S 4	KA	1536
	5 30	16 44 35.1034	16 51 47.777	35 21 0.52	9008	17458 S 3	KA	523
	5 30	16 44 35.1115	13 58 20.229	46 56 20.05	9006	12965 S 5	KA	521
	5 30	16 44 43.1037	16 50 38.371	34 46 26.62	9008	17458 S 4	KA	524
	5 30	16 44 43.1120	13 58 30.711	46 9 7.56	9006	12965 S 6	KA	522
	5 30	16 44 51.1042	16 49 30.024	34 11 46.42	9008	17458 S 5	KA	525
	5 30	16 44 55.1047	16 48 23.259	33 36 58.97	9008	17458 S 6	KA	526
	5 30	16 52 11.1247	14 2 30.963	2 49 46.06	9006	12968 S 2	KA	515
	5 30	16 52 19.1252	14 2 31.541	2 8 33.26	9006	12968 S 3	KA	516
	5 30	16 52 27.1246	14 2 31.924	1 27 40.32	9006	12968 S 4	KA	517
	5 30	16 52 35.1102	16 9 2.754	0 18 50.03	9008	17460 S 3	BM	417
	5 30	16 52 35.1250	14 2 32.286	0 47 3.88	9006	12968 S 5	KA	518
	5 30	16 52 43.1103	16 8 39.029	- 0 14 5.96	9008	17460 S 4	BM	418
	5 30	16 52 51.1110	16 8 15.825	- 0 46 43.77	9008	17460 S 5	BM	419
	5 30	16 52 59.1108	16 7 52.521	- 1 19 20.36	9008	17460 S 6	BM	420
	5 30	16 53 7.1107	16 7 30.035	- 1 51 45.50	9008	17460 S 7	BM	421
	6 7	1 17 31.1094	15 29 43.561	2 15 57.97	9009	11745 S 5	VD	146
	6 7	1 17 31.1129	15 40 23.163	37 9 33.44	9007	13262 S 3	WI	1058
	6 7	1 17 35.1093	15 29 35.938	1 55 20.13	9009	11745 S 6	VD	147
	6 7	1 17 39.1093	15 29 28.358	1 34 46.55	9009	11745 S 7	VD	148
	6 7	1 17 39.1132	15 40 7.927	36 41 56.93	9007	13262 S 4	WI	1059
	6 7	1 17 43.1094	15 29 20.988	1 14 11.79	9009	11745 S 8	GL	149
	6 7	1 17 47.1092	15 29 13.601	0 53 42.27	9009	11745 S 9	GL	150
	6 7	1 17 47.1131	15 39 53.427	36 14 15.24	9007	13262 S 5	EM	1060
	6 7	1 17 51.1091	15 29 6.355	0 33 9.88	9009	11745 S10	GL	151
	6 7	1 17 55.1095	15 28 59.074	0 12 44.19	9009	11745 S11	GL	152
	6 7	1 17 55.1130	15 39 39.207	35 46 19.03	9007	13262 S 6	EM	1061
	6 7	1 18 11.1130	15 39 11.264	34 49 54.20	9007	13262 S 8	EM	1062
	6 7	1 18 19.1132	15 38 57.786	34 21 26.42	9007	13262 S 9	EM	1063
	6 7	1 20 55.1191	15 35 22.153	24 14 22.46	9007	13263 S 6	VD	139
	6 7	1 21 7.1192	15 35 14.023	23 42 4.58	9007	13263 S 7	VD	140
	6 7	1 21 15.1192	15 35 5.822	23 9 37.66	9007	13263 S 8	VD	141
	6 7	1 21 19.1101	15 24 10.675	-16 22 20.85	9009	11746 S10	EM	1064
	6 7	1 21 23.1101	15 24 6.429	-16 40 39.54	9009	11746 S11	EM	1065
	6 7	1 21 23.1191	15 34 57.949	22 36 57.38	9007	13263 S 9	VD	142
	6 7	1 21 27.1100	15 24 2.121	-16 58 57.86	9009	11746 S12	EM	1066
	6 7	1 21 31.1098	15 23 58.024	-17 17 13.19	9009	11746 S13	EM	1067
	6 7	1 21 31.1194	15 34 50.402	22 4 6.87	9007	13263 S10	VD	143
	6 7	1 21 35.1101	15 23 54.049	-17 35 25.22	9009	11746 S14	EM	1068

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) D M S	STATION	FRAME NO.	MS	ORS.NO.
1964 6 7	1 21 39.1099	1	15 23 50.016	-17 53 33.25	9009	11746 S15	EM	1069
6 7	1 21 39.1187	1	15 34 43.030	21 31 5.74	9007	13263 S11	VD	144
6 7	1 21 43.1097	1	15 23 45.990	-18 11 36.36	9009	11746 S16	EM	1070
6 7	1 21 47.1189	1	15 34 35.993	20 57 54.99	9007	13263 S12	VD	145
6 7	6 36 11.1032	1	17 59 36.631	66 37 51.21	9012	13844 S 2	DM	384
6 7	6 36 19.1032	1	17 56 13.768	66 16 38.80	9012	13844 S 3	DM	385
6 7	6 36 19.1081	1	10 58 20.039	43 33 12.47	9001	15876 S 5	DM	377
6 7	6 36 27.1034	1	17 52 56.411	65 54 58.05	9012	13844 S 4	DM	386
6 7	6 36 27.1080	1	11 0 7.339	43 5 17.62	9001	15876 S 6	DM	378
6 7	6 36 35.1034	1	17 49 43.364	65 32 48.42	9012	13844 S 5	DM	387
6 7	6 36 35.1077	1	11 1 52.451	42 37 14.29	9001	15876 S 7	DM	379
6 7	6 36 43.1035	1	17 46 34.941	65 10 14.32	9012	13844 S 6	DM	388
6 7	6 36 43.1078	1	11 3 35.654	42 8 56.42	9001	15876 S 8	DM	380
6 7	6 36 51.1035	1	17 43 31.218	64 47 18.83	9012	13844 S 7	DM	811
6 7	6 36 51.1078	1	11 5 17.272	41 40 30.79	9001	15876 S 9	DM	381
6 7	6 36 59.1034	1	17 40 32.089	64 23 54.99	9012	13844 S 8	DM	390
6 7	6 36 59.1080	1	11 6 56.956	41 11 52.41	9001	15876 S10	DM	382
6 7	6 37 7.1082	1	11 8 35.077	40 43 9.55	9001	15876 S11	DM	383
6 9	C 39 23.1080	1	17 7 35.546	59 3 48.16	9009	11780 S 3	MY	847
6 9	C 39 31.1079	1	17 5 47.392	58 38 30.92	9009	11780 S 4	MY	848
6 9	C 39 31.1200	1	11 43 16.311	20 5 2.98	9004	13716 S 9	LD	108
6 9	C 39 39.1079	1	17 4 1.873	58 12 53.61	9009	11780 S 5	MY	849
6 9	C 39 39.1204	1	11 44 6.709	19 39 8.70	9004	13716 S10	LC	408
6 9	C 39 47.1080	1	17 2 18.763	57 47 5.48	9009	11780 S 6	MY	850
6 9	C 39 55.1080	1	17 0 37.925	57 21 0.73	9009	11780 S 7	MY	851
6 9	C 39 55.1203	1	11 45 44.713	18 47 29.55	9004	13716 S12	LD	110
6 9	C 40 3.1081	1	16 58 58.934	56 54 37.63	9009	11780 S 8	MY	852
6 9	C 40 3.1203	1	11 46 32.755	18 21 47.16	9004	13716 S13	LD	111
6 9	C 40 11.1081	1	16 57 22.487	56 27 59.31	9009	11780 S 9	MY	853
6 9	C 40 11.1206	1	11 47 20.184	17 55 59.92	9004	13716 S14	LD	112
6 9	C 40 19.1207	1	11 48 6.571	17 30 17.72	9004	13716 S15	LD	113
6 9	3 28 35.1152	1	15 44 41.429	33 10 27.22	9001	15896 S 4	VP	9412
6 9	3 28 43.1118	1	11 23 10.432	47 40 46.86	9009	11789 S 6	WC	1077
6 9	3 28 43.1152	1	15 43 52.573	32 27 14.87	9001	15896 S 5	VP	9413
6 9	3 28 51.1119	1	11 24 25.300	47 13 17.70	9009	11789 S 7	WC	1078
6 9	3 28 51.1154	1	15 43 4.982	31 44 4.05	9001	15896 S 6	VP	9414
6 9	3 28 59.1118	1	11 25 38.524	46 45 33.18	9009	11789 S 8	WC	1079
6 9	3 28 59.1153	1	15 42 18.420	31 0 52.02	9001	15896 S 7	VP	9415
6 9	3 29 7.1120	1	11 26 50.684	46 17 43.49	9009	11789 S 9	BM	1565
6 9	3 29 7.1153	1	15 41 33.024	30 17 38.73	9001	15896 S 8	VP	9416
6 9	3 29 15.1124	1	11 28 1.013	45 49 39.44	9009	11789 S10	BM	1081
6 9	3 29 15.1154	1	15 40 48.380	29 34 27.10	9001	15896 S 9	VP	9417
6 9	3 29 23.1126	1	11 29 10.301	45 21 29.14	9009	11789 S11	BM	1082
6 9	3 29 23.1151	1	15 40 4.919	28 51 17.47	9001	15896 S10	VP	9418
6 9	3 29 31.1127	1	11 30 18.250	44 53 7.36	9009	11789 S12	BM	1566

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964	6 9	3 39 55.1148	12 14 53.804	3 38 59.53	4	9009	11791 S 3	VP	9419
	6 9	3 40 3.1148	12 15 6.167	3 7 20.31	4	9009	11791 S 4	VP	9420
	6 9	3 40 11.1148	12 15 18.384	2 35 43.04	4	9009	11791 S 5	VP	9421
	6 9	3 40 19.1147	12 15 29.898	2 4 10.49	4	9009	11791 S 6	VP	9422
	6 9	3 40 27.1117	15 10 16.546	-21 35 55.09	4	9001	15899 S 6	PG	8748
	6 9	3 40 27.1148	12 15 41.455	1 32 47.32	4	9009	11791 S 7	VP	9423
	6 9	3 40 35.1116	15 10 7.145	-22 3 37.32	4	9001	15899 S 7	PG	8749
	6 9	3 40 35.1148	12 15 52.063	1 1 26.21	4	9009	11791 S 8	VP	9424
	6 9	3 40 43.1114	15 9 57.883	-22 31 7.95	4	9001	15899 S 8	PG	8750
	6 9	3 40 43.1148	12 16 2.708	0 30 12.03	4	9009	11791 S 9	VP	9609
	6 9	3 40 51.1112	15 9 48.684	-22 58 26.55	4	9001	15899 S 9	PG	8751
	6 9	3 40 59.1112	15 9 39.671	-23 25 29.95	4	9001	15899 S10	PG	8752
	6 9	3 42 27.1141	15 8 10.751	-28 11 43.88	4	9001	15900 S 2	GL	8730
	6 9	3 42 35.1138	15 8 3.343	-28 36 42.63	4	9001	15900 S 3	GL	8731
	6 9	3 42 35.1178	12 17 53.301	-6 37 9.92	4	9009	11792 S 2	GL	9722
	6 9	3 42 43.1138	15 7 56.362	-29 1 33.11	4	9001	15900 S 4	GL	8732
	6 9	3 42 43.1177	12 17 58.782	-7 6 54.21	4	9009	11792 S 3	GL	9723
	6 9	3 42 51.1138	15 7 49.342	-29 26 10.97	4	9001	15900 S 5	GL	8733
	6 9	3 42 51.1178	12 18 3.737	-7 36 32.95	4	9009	11792 S 4	GL	9724
	6 9	3 42 59.1136	15 7 42.437	-29 50 38.53	4	9001	15900 S 6	GL	8734
	6 9	3 42 59.1180	12 18 8.562	-8 6 3.72	4	9009	11792 S 5	GL	9725
	6 9	3 43 7.1179	12 18 12.853	-8 35 28.38	4	9009	11792 S 6	GL	9726
	6 9	6 14 43.1162	11 42 14.779	32 50 38.65	4	9001	15904 S 3	GL	8735
	6 9	6 14 51.1162	11 43 24.402	32 17 39.79	4	9001	15904 S 4	GL	8736
	6 9	6 14 59.1048	17 6 8.023	50 8 21.60	4	9012	13891 S 2	VD	134
	6 9	6 14 59.1163	11 44 32.327	31 44 37.78	4	9001	15904 S 5	GL	8737
	6 9	6 15 7.1048	17 4 33.466	49 38 28.14	4	9012	13891 S 3	VD	135
	6 9	6 15 7.1163	11 45 39.410	31 11 33.89	4	9001	15904 S 6	GL	8738
	6 9	6 15 15.1067	17 3 1.409	49 8 16.06	4	9012	13891 S 4	VD	136
	6 9	6 15 23.1064	17 1 30.958	48 37 53.41	4	9012	13891 S 5	VD	137
	6 9	6 15 31.1063	17 0 2.292	48 7 15.64	4	9012	13891 S 6	VD	9736
	6 9	6 20 19.1073	16 22 13.874	27 32 34.64	4	9012	13892 S 5	VD	9734
	6 9	6 20 19.1293	12 16 20.740	10 2 0.96	4	9001	15906 S 4	GL	8739
	6 9	6 20 27.1073	16 21 30.255	26 55 39.83	4	9012	13892 S 6	VD	9735
	6 9	6 20 27.1292	12 16 52.900	9 31 2.18	4	9001	15906 S 5	GL	8740
	6 9	6 20 35.1073	16 20 47.310	26 18 40.13	4	9012	13892 S 7	VD	9736
	6 9	6 20 35.1291	16 17 24.486	9 0 12.87	4	9001	15906 S 6	GL	8741
	6 9	6 20 43.1072	16 20 5.346	25 41 35.49	4	9012	13892 S 8	VD	9737
	6 9	6 20 43.1290	12 17 55.321	8 29 27.09	4	9001	15906 S 7	GL	8742
	6 9	6 20 51.1072	16 19 23.867	25 4 27.04	4	9012	13892 S 9	VD	9738
	6 9	6 20 59.1071	16 18 43.219	24 27 17.16	4	9012	13892 S10	VD	9739
	6 9	6 21 7.1073	16 18 3.513	23 50 3.38	4	9012	13892 S11	VD	9740
	6 10	2 3 31.1067	14 15 7.306	40 58 40.46	4	9007	13311 S 5	KA	1564
	6 10	2 3 39.1073	14 15 1.400	40 29 53.33	4	9007	13311 S 6	KA	1071
	6 10	2 3 39.1210	13 57 21.783	3 40 53.84	4	9009	11806 S 5	MY	751

DATE Y M D	TIME (A-I) T M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 6 10	2 3 47.1074	1	14 14 55.303	40 0 57.47	9007	13311 S 7	WC	1072
6 10	2 3 47.1217	1	13 57 18.033	2 57 19.35	9009	11806 S 6	MY	752
6 10	2 3 55.1075	1	14 14 49.173	39 31 49.94	9007	13311 S 8	WC	1073
6 10	2 3 55.1217	1	13 57 14.442	2 13 48.96	9009	11806 S 7	MY	753
6 10	2 4 3.1072	1	14 14 43.034	39 2 30.64	9007	13311 S 9	WC	1074
6 10	2 4 3.1212	1	13 57 10.604	1 30 33.19	9009	11806 S 8	MY	754
6 10	2 4 11.1077	1	14 14 36.856	38 33 0.61	9007	13311 S10	WC	1075
6 10	2 4 11.1217	1	13 57 6.791	0 47 24.15	9009	11806 S 9	MY	755
6 10	2 4 19.1076	1	14 14 30.897	38 3 17.71	9007	13311 S11	WC	1076
6 10	2 7 39.1128	1	14 56 13.691	-30 52 30.33	9010	13754 S 3	LD	879
6 10	2 7 39.1189	1	14 11 51.354	24 37 8.23	9007	13312 S 6	LD	95
6 10	2 7 47.1133	1	14 56 7.329	-31 18 39.62	9010	13754 S 4	LD	880
6 10	2 7 47.1194	1	14 11 44.853	24 2 18.11	9007	13312 S 7	LD	96
6 10	2 7 55.1134	1	14 56 1.074	-31 44 40.87	9010	13754 S 5	LD	881
6 10	2 7 55.1191	1	14 11 37.858	23 27 17.21	9007	13312 S 8	LD	97
6 10	2 8 3.1141	1	14 55 54.585	-32 10 33.35	9010	13754 S 6	LD	1498
6 10	2 8 3.1190	1	14 11 30.859	22 51 59.56	9007	13312 S 9	LD	98
6 10	2 8 11.1153	1	14 55 48.562	-32 36 9.66	9010	13754 S 7	LD	883
6 10	2 8 11.1189	1	14 11 24.229	22 16 35.64	9007	13312 S10	LD	99
6 10	2 8 19.1188	1	14 11 17.382	21 40 54.42	9007	13312 S11	LD	100
6 10	2 8 27.1190	1	14 11 10.316	21 5 5.61	9007	13312 S12	LD	101
6 11	3 34 27.1159	1	16 6 38.455	7 45 0.14	9007	13373 S 2	MY	756
6 11	3 34 27.1216	1	16 0 22.133	-27 31 45.21	9009	11820 S 2	MY	762
6 11	3 34 35.1156	1	16 6 39.042	7 12 9.38	9007	13373 S 3	MY	757
6 11	3 34 35.1216	1	16 0 21.881	-28 1 26.06	9009	11820 S 3	MY	763
6 11	3 34 43.1159	1	16 6 39.867	6 39 7.60	9007	13373 S 4	MY	810
6 11	3 34 43.1213	1	16 0 21.974	-28 30 54.05	9009	11820 S 4	MY	764
6 11	3 34 51.1158	1	16 6 41.152	6 6 2.57	9007	13373 S 5	MY	758
6 11	3 34 51.1213	1	16 0 22.232	-29 0 16.09	9009	11820 S 5	MY	765
6 11	3 34 59.1158	1	16 6 42.564	5 32 52.25	9007	13373 S 6	MY	759
6 11	3 34 59.1213	1	16 0 22.885	-29 29 25.17	9009	11820 S 6	MY	766
6 11	3 35 7.1156	1	16 6 44.341	4 59 31.47	9007	13373 S 7	MY	760
6 11	3 35 7.1212	1	16 0 23.872	-29 58 25.81	9009	11820 S 7	MY	767
6 11	3 35 15.1156	1	16 6 46.216	4 26 8.11	9007	13373 S 8	MY	761
6 11	3 35 15.1212	1	16 0 24.705	-30 27 18.48	9009	11820 S 8	MY	768
6 11	3 38 59.1191	1	16 9 42.624	-11 41 14.79	9007	13374 S 6	KA	1562
6 11	3 38 59.1194	1	16 2 55.892	-42 54 21.19	9009	11821 S 2	MY	1171
6 11	3 38 59.1266	1	15 24 56.632	6 55 24.81	9011	14246 S10	BM	1046
6 11	3 39 7.1190	1	16 9 53.729	-12 16 30.82	9007	13374 S 7	KA	1506
6 11	3 39 7.1194	1	16 3 5.813	-43 18 56.42	9009	11821 S 3	MY	1172
6 11	3 39 7.1269	1	15 25 0.624	6 23 19.68	9011	14246 S11	BM	1047
6 11	3 39 15.1186	1	16 10 4.951	-12 51 45.71	9007	13374 S 8	KA	1054
6 11	3 39 15.1191	1	16 3 16.247	-43 43 24.80	9009	11821 S 4	MY	1173
6 11	3 39 15.1265	1	15 25 4.818	5 50 59.13	9011	14246 S12	BM	1048
6 11	3 39 23.1188	1	16 10 16.798	-13 27 4.26	9007	13374 S 9	KA	1055

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964	6 11	1	16 3 26.823	-44 7 40.37	9009	11821 S 5	MY	1174
	6 11	1	15 25 9.080	5 18 28.00	9011	14246 S13	BM	1049
	6 11	1	16 10 28.566	-14 2 19.36	9007	13374 S10	KA	1056
	6 11	1	16 3 37.787	-44 31 51.55	9009	11821 S 6	MY	1175
	6 11	1	15 25 13.653	4 45 50.86	9011	14246 S14	JW	1050
	6 11	1	16 10 40.871	-14 37 34.03	9007	13374 S11	KA	1507
	6 11	1	16 3 49.286	-44 55 52.83	9009	11821 S 7	MY	1176
	6 11	1	15 25 18.461	4 13 4.70	9011	14246 S15	JW	1051
	6 11	1	16 10 53.549	-15 12 55.68	9007	13374 S12	KA	1563
	6 11	1	16 4 0.914	-45 19 44.90	9009	11821 S 8	MY	1177
	6 11	1	15 25 23.425	3 40 2.16	9011	14246 S16	JW	1052
	6 11	1	15 27 23.653	-17 40 44.29	9031	15936 S 4	GL	8743
	6 11	1	15 27 0.209	-18 37 13.04	9001	15936 S 5	GL	8744
	6 11	1	12 26 6.392	3 35 27.09	9009	11825 S 5	VD	9727
	6 11	1	12 26 11.830	3 18 27.62	9009	11825 S 6	VD	9728
	6 11	1	15 26 37.801	-19 32 55.21	9001	15936 S 6	GL	8745
	6 11	1	12 26 17.373	3 1 31.49	9009	11825 S 7	VD	9729
	6 11	1	12 26 22.587	2 44 34.81	9009	11825 S 8	VD	9730
	6 11	1	12 26 27.887	2 27 37.43	9009	11825 S 9	VD	9731
	6 11	1	12 26 33.005	2 10 44.22	9009	11825 S10	VD	9732
	6 11	1	15 26 16.202	-20 27 58.45	9001	15936 S 7	GL	8746
	6 11	1	12 26 38.150	1 53 52.90	9009	11825 S11	VD	9733
	6 11	1	15 25 54.936	-21 22 16.81	9001	15936 S 8	GL	8747
	6 11	1	16 28 36.758	19 10 5.63	9012	13925 S 2	PG	9528
	6 11	1	12 30 45.785	4 40 49.84	9001	15942 S 6	PG	8989
	6 11	1	16 28 1.390	18 35 21.96	9012	13925 S 3	PG	9529
	6 11	1	12 31 10.888	4 9 19.28	9001	15942 S 7	PG	8990
	6 11	1	16 27 26.390	18 0 41.62	9012	13925 S 4	PG	9530
	6 11	1	12 31 35.497	3 37 58.33	9001	15942 S 8	PG	8754
	6 11	1	16 26 52.523	17 25 55.10	9012	13925 S 5	PG	9531
	6 11	1	12 31 59.636	3 6 49.06	9001	15942 S 9	PG	8755
	6 11	1	16 26 18.569	16 51 11.92	9012	13925 S 6	PG	9601
	6 11	1	12 32 23.253	2 35 46.91	9001	15942 S10	PG	8756
	6 11	1	16 25 45.595	16 16 30.19	9012	13925 S 7	PG	9532
	6 11	1	12 32 46.518	2 4 52.16	9001	15942 S11	PG	8757
	6 11	1	16 25 13.223	15 41 45.75	9012	13925 S 8	PG	9533
	6 11	1	12 33 9.145	1 34 7.55	9001	15942 S12	PG	8758
	6 11	1	16 15 47.827	3 38 34.81	9012	13926 S 2	PG	9534
	6 11	1	12 39 32.995	- 8 34 11.21	9001	15943 S 3	PG	8759
	6 11	1	16 15 25.855	3 4 44.04	9012	13926 S 3	PG	9535
	6 11	1	12 39 47.228	- 9 1 25.85	9001	15943 S 4	PG	8760
	6 11	1	16 15 4.365	2 30 56.15	9012	13926 S 4	PG	9536
	6 11	1	12 40 1.183	- 9 28 28.48	9001	15943 S 5	PG	8761
	6 11	1	16 14 43.153	1 57 17.31	9012	13926 S 5	PG	9537
	6 11	1	12 40 14.682	- 9 55 23.39	9001	15943 S 6	PG	8762

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 6 11	6 0 51.1083	1	16 14 22.397	1 23 35.93	9012	13926 S 6	PG	9538
6 11	6 0 51.1180	1	12 40 28.064	-10 22 8.65	9001	15943 S 7	PG	8763
6 11	6 0 59.1083	1	16 14 2.216	0 50 7.36	9012	13926 S 7	PG	9602
6 11	6 0 59.1182	1	12 40 41.601	-10 48 45.68	9001	15943 S 8	PG	8764
6 11	6 1 7.1083	1	16 13 42.070	0 16 39.45	9012	13926 S 8	PG	9540
6 11	6 1 7.1183	1	12 40 53.691	-11 15 12.74	9001	15943 S 9	PG	8765
6 12	1 37 31.0647	1	15 21 4.224	-11 22 29.83	9010	13774 S 2	LD	884
6 12	1 37 31.1218	1	14 41 51.904	44 1 25.03	9007	13393 S 5	LD	102
6 12	1 37 39.0636	1	15 20 50.754	-11 55 53.89	9010	13774 S 3	LD	885
6 12	1 37 39.1219	1	14 41 41.109	43 34 8.54	9007	13393 S 6	LD	793
6 12	1 37 47.0634	1	15 20 37.438	-12 29 6.18	9010	13774 S 4	LD	886
6 12	1 37 47.1220	1	14 41 30.136	43 6 45.88	9007	13393 S 7	LD	104
6 12	1 37 55.0637	1	15 20 24.460	-13 2 4.90	9010	13774 S 5	LD	887
6 12	1 37 55.1220	1	14 41 19.916	42 39 10.63	9007	13393 S 8	LD	105
6 12	1 38 3.0646	1	15 20 11.680	-13 34 50.41	9010	13774 S 6	LD	1543
6 12	1 38 3.1216	1	14 41 9.638	42 11 24.99	9007	13393 S 9	LD	106
6 12	1 38 11.0653	1	15 19 59.006	-14 7 24.37	9010	13774 S 7	LD	1544
6 12	1 38 11.1213	1	14 40 59.127	41 43 30.52	9007	13393 S10	LD	407
6 12	1 38 19.0657	1	15 19 46.563	-14 39 42.90	9010	13774 S 8	LD	2202
6 12	1 38 19.1219	1	14 40 49.122	41 15 22.06	9007	13393 S11	LD	107
6 12	1 47 31.1276	1	14 1 44.794	18 46 27.53	9011	14272 S 5	DM	1164
6 12	1 47 39.1197	1	14 31 40.822	0 27 2.10	9007	13394 S 2	MY	854
6 12	1 47 39.1277	1	14 1 37.949	18 16 33.89	9011	14272 S 6	DM	1165
6 12	1 47 47.1198	1	14 31 34.056	-0 13 59.73	9007	13394 S 3	MY	855
6 12	1 47 47.1276	1	14 1 31.108	17 46 30.56	9011	14272 S 7	DM	1166
6 12	1 47 55.1190	1	14 31 27.298	-0 55 9.91	9007	13394 S 4	MY	856
6 12	1 47 55.1275	1	14 1 23.878	17 16 17.97	9011	14272 S 8	DM	1167
6 12	1 48 3.1191	1	14 31 20.225	-1 36 24.68	9007	13394 S 5	MY	857
6 12	1 48 3.1274	1	14 1 16.708	16 45 54.97	9011	14272 S 9	DM	1168
6 12	1 48 11.1193	1	14 31 13.429	-2 17 44.91	9007	13394 S 6	MY	858
6 12	1 48 11.1275	1	14 1 9.685	16 15 19.69	9011	14272 S10	DM	1169
6 12	1 48 15.1192	1	14 31 6.599	-2 59 8.74	9007	13394 S 7	MY	859
6 12	1 48 27.1191	1	14 30 59.682	-3 40 40.97	9007	13394 S 8	MY	860
6 12	1 48 27.1273	1	14 0 54.997	15 13 38.90	9011	14272 S12	DM	1170
6 13	2 57 55.1180	1	12 53 42.598	5 29 56.12	9007	13415 S 3	PG	9523
6 13	2 57 55.1226	1	12 54 43.825	19 23 16.76	9011	14305 S 7	LD	888
6 13	2 58 3.1225	1	12 54 37.495	18 57 39.57	9011	14305 S 8	LD	889
6 13	2 58 11.1180	1	12 53 23.887	4 20 43.38	9007	13415 S 4	PG	9524
6 13	2 58 11.1225	1	12 54 30.977	18 31 53.32	9011	14305 S 9	LD	890
6 13	2 58 15.1223	1	12 54 24.213	18 6 4.24	9011	14305 S10	LD	891
6 13	2 58 27.1171	1	12 53 4.074	3 11 16.35	9007	13415 S 5	PG	9525
6 13	2 58 27.1226	1	12 54 17.326	17 40 10.57	9011	14305 S11	LD	892
6 13	2 58 35.1224	1	12 54 10.036	17 14 6.07	9011	14305 S12	LD	893
6 13	2 58 43.1174	1	12 52 43.190	2 1 33.19	9007	13415 S 6	PG	9526
6 13	2 58 43.1227	1	12 54 2.502	16 47 58.43	9011	14305 S13	LD	894

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 6 13	2 58 59.1176	1	12 52 21.004	0 51 45.70	4	9007	13415 S 7	PG	9527
9 13	21 42 29.9302	1	4 23 56.267	35 20 27.85	4	9008	19394 S 5	RO	2177
9 13	21 42 33.7269	1	1 17 5.536	44 12 43.19	4	9006	13729 S 3	RO	2173
9 13	21 42 33.9301	1	4 24 25.800	35 39 57.22	4	9008	19394 S 6	RO	2178
9 13	21 42 37.9302	1	4 24 55.663	35 59 22.91	4	9008	19394 S 7	RO	2179
9 13	21 42 41.7275	1	1 16 26.411	44 58 41.41	4	9006	13729 S 4	RO	2174
9 13	21 42 41.9303	1	4 25 25.872	36 18 48.61	4	9008	19394 S 8	RO	2180
9 13	21 42 49.7279	1	1 15 46.371	45 44 26.36	4	9006	13729 S 5	RO	2175
9 13	21 42 57.7281	1	1 15 5.216	46 29 54.30	4	9006	13729 S 6	RO	2176
9 17	1 19 47.3323	1	4 33 27.256	41 6 23.76	4	9004	15467 S 3	VP	1670
9 17	1 19 47.3369	1	22 55 30.091	38 37 11.04	4	9008	19455 S 5	VP	1676
9 17	1 19 55.3323	1	4 34 48.181	41 43 30.28	4	9004	15467 S 4	VP	1671
9 17	1 19 55.3369	1	22 54 17.211	39 3 18.39	4	9008	19455 S 6	VP	1677
9 17	1 20 3.3324	1	4 36 10.865	42 20 27.62	4	9004	15467 S 5	VP	1672
9 17	1 20 3.3368	1	22 53 3.814	39 29 21.05	4	9008	19455 S 7	VP	1678
9 17	1 20 11.3322	1	4 37 35.582	42 57 13.22	4	9004	15467 S 6	VP	1673
9 17	1 20 11.3369	1	22 51 48.407	39 55 3.25	4	9008	19455 S 8	VP	1679
9 17	1 20 19.3326	1	4 39 2.315	43 33 49.11	4	9004	15467 S 7	VP	1674
9 17	1 20 19.3371	1	22 50 32.511	40 20 43.87	4	9008	19455 S 9	VP	1680
9 17	1 20 27.3329	1	4 40 30.715	44 10 15.24	4	9004	15467 S 8	VP	1675
9 17	1 20 27.3368	1	22 49 15.503	40 46 15.06	4	9008	19455 S 10	VP	1681
9 18	5 9 23.3340	1	23 59 42.719	- 3 14 0.65	4	9004	15501 S 2	SS	2181
9 18	5 9 23.3359	1	4 31 44.926	25 10 5.26	4	9009	13629 S 2	BA	2186
9 18	5 9 31.3359	1	4 32 13.877	25 45 8.49	4	9009	13629 S 3	BA	2187
9 18	5 9 39.3341	1	23 59 4.167	- 2 18 35.04	4	9004	15501 S 3	SS	2182
9 18	5 9 39.3357	1	4 32 43.809	26 20 9.04	4	9009	13629 S 4	BA	2188
9 18	5 9 47.3360	1	4 33 14.093	26 55 1.39	4	9009	13629 S 5	BA	2189
9 18	5 9 55.3340	1	23 58 24.284	- 1 22 51.51	4	9004	15501 S 4	SS	2183
9 18	5 9 55.3358	1	4 33 45.251	27 29 48.29	4	9009	13629 S 6	BA	2190
9 18	5 10 3.3358	1	4 34 16.951	28 4 26.18	4	9009	13629 S 7	SU	2191
9 18	5 10 11.3342	1	23 57 42.850	- 0 26 52.92	4	9004	15501 S 5	SS	2657
9 18	5 10 11.3360	1	4 34 49.235	28 38 52.94	4	9009	13629 S 8	SU	2192
9 18	5 10 27.3333	1	23 57 0.115	0 29 24.26	4	9004	15501 S 6	SS	2658
9 18	22 6 19.3390	1	3 49 37.144	56 38 56.02	4	9008	19481 S 3	VP	2087
9 18	22 6 19.3394	1	23 41 40.983	51 58 29.91	4	9006	13770 S 6	VP	2083
9 18	22 6 27.3391	1	3 50 56.162	57 17 44.84	4	9008	19481 S 4	VP	2088
9 18	22 6 27.3397	1	23 40 1.952	52 32 19.46	4	9006	13770 S 7	VP	2084
9 18	22 6 35.3394	1	3 52 18.428	57 56 10.51	4	9008	19481 S 5	VP	2089
9 18	22 6 35.3397	1	23 38 20.309	53 5 46.94	4	9006	13770 S 8	VP	2085
9 18	22 6 43.3397	1	3 53 43.587	58 34 21.22	4	9008	19481 S 6	VP	2090
9 18	22 6 43.3398	1	23 36 36.271	53 38 53.42	4	9006	13770 S 9	VP	2086
9 18	22 8 51.3422	1	4 24 56.736	67 55 0.18	4	9008	19482 S 3	LM	1775
9 18	22 8 51.3456	1	23 2 13.585	61 40 16.08	4	9006	13771 S 6	LM	1771
9 18	22 8 59.3424	1	4 27 37.454	68 26 45.57	4	9008	19482 S 4	LM	1776
9 18	22 8 59.3459	1	22 59 35.181	62 7 4.23	4	9006	13771 S 7	LM	1772

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 9 18	22 9 7.3425	1	4 30 23.926	68 57 58.57	9008	19482 S 5	LM	1777
9 18	22 9 7.3459	1	22 56 52.702	62 33 26.78	9006	13771 S 8	LM	1773
9 18	22 9 15.3427	1	4 33 18.192	69 28 48.29	9008	19482 S 6	LM	1778
9 18	22 9 15.3462	1	22 54 6.074	62 59 26.92	9006	13771 S 9	LM	1774
9 18	22 11 23.3447	1	21 59 1.455	68 51 48.46	9006	13772 S 3	BN	1608
9 18	22 11 23.3456	1	5 42 29.494	76 32 24.41	9008	19483 S 3	YK	1614
9 18	22 11 31.3449	1	21 54 51.632	69 9 32.73	9006	13772 S 4	BN	1609
9 18	22 11 31.3459	1	5 48 45.123	76 53 33.65	9008	19483 S 4	YK	1615
9 18	22 11 39.3451	1	21 50 35.529	69 26 41.58	9006	13772 S 5	BN	1610
9 18	22 11 39.3459	1	5 55 16.985	77 13 52.43	9008	19483 S 5	YK	1616
9 18	22 11 47.3450	1	21 46 14.396	69 43 17.95	9006	13772 S 6	BN	1611
9 18	22 11 47.3461	1	6 2 6.324	77 33 22.83	9008	19483 S 6	YK	1617
9 18	22 11 55.3455	1	21 41 48.487	69 59 18.98	9006	13772 S 7	BN	1612
9 18	22 11 55.3463	1	6 9 14.309	77 52 4.71	9008	19483 S 7	YK	1618
9 18	22 12 3.3455	1	21 37 16.808	70 14 44.68	9006	13772 S 8	BN	1613
9 18	22 12 3.3466	1	6 16 42.834	78 9 55.78	9008	19483 S 8	YK	1619
9 21	C 29 55.3371	1	4 56 37.428	38 10 36.31	9004	15508 S 2	VD	2640
9 21	C 30 3.3369	1	4 57 58.353	38 42 25.37	9004	15508 S 3	VD	3145
9 21	C 30 11.3368	1	4 59 21.189	39 14 5.98	9004	15508 S 4	VD	2642
9 21	C 30 19.3367	1	5 0 45.194	39 45 30.63	9004	15508 S 5	VD	3517
9 21	C 30 19.3509	1	22 53 42.905	47 45 37.63	9008	19523 S 6	PK	2647
9 21	C 30 27.3369	1	5 2 11.254	40 16 49.95	9004	15508 S 6	VD	3147
9 21	C 30 27.3510	1	22 52 4.710	48 12 36.24	9008	19523 S 7	PK	3150
9 21	C 30 35.3513	1	22 50 24.988	48 39 21.54	9008	19523 S 8	PK	2648
9 21	C 30 43.3370	1	5 5 7.441	41 19 8.33	9004	15508 S 8	VD	3148
9 21	C 30 43.3512	1	22 48 43.278	49 5 50.66	9008	19523 S 9	PK	2649
9 21	C 30 51.3513	1	22 46 59.998	49 32 2.92	9008	19523 S10	PK	3151
9 21	C 30 59.3518	1	22 45 14.610	49 58 1.01	9008	19523 S11	PK	2651
9 21	C 31 7.3517	1	22 43 27.982	50 23 38.97	9008	19523 S12	PK	2652
9 21	22 52 11.3355	1	23 4 15.020	39 53 38.61	9006	13809 S 3	VD	2602
9 21	22 52 19.3355	1	23 3 0.982	40 21 46.39	9006	13809 S 4	VD	2603
9 21	22 52 19.3443	1	1 17 38.977	58 43 2.28	9008	19535 S 3	VD	2607
9 21	22 52 27.3358	1	23 1 45.597	40 49 38.84	9006	13809 S 5	VD	3152
9 21	22 52 27.3446	1	1 16 45.338	59 22 44.71	9008	19535 S 4	SU	2608
9 21	22 52 35.3359	1	23 0 29.225	41 17 22.03	9006	13809 S 6	VD	2605
9 21	22 52 35.3446	1	1 15 50.369	60 2 21.21	9008	19535 S 5	SU	2609
9 21	22 52 43.3359	1	22 59 15.924	41 44 57.82	9006	13809 S 7	VD	2606
9 21	22 52 43.3449	1	1 14 53.580	60 41 26.63	9008	19535 S 6	SU	2610
9 21	22 52 51.3453	1	1 13 54.124	61 20 18.11	9008	19535 S 7	SU	2611
9 21	22 52 55.3456	1	1 12 52.903	61 58 49.53	9008	19535 S 8	SU	3153
9 21	22 53 7.3457	1	1 11 49.375	62 36 58.83	9008	19535 S 9	SU	2613
9 25	7 29 30.5016	3	23 26 31.335	-51 27 47.44	9007	15179 S 4	VP	1793
9 25	7 29 32.5068	1	23 40 52.613	-27 17 50.36	9011	16134 S 3	VP	1799
9 25	7 29 38.5015	3	23 27 54.327	-50 51 36.38	9007	15179 S 5	VP	1794
9 25	7 29 40.0068	1	23 41 51.120	-26 36 6.35	9011	16134 S 4	VP	1800

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 9 25	7 29 46.5013	3	23 29 15.052	-50 15 10.37	9007	15179 S 6	VP-	2277
9 25	7 29 48.0067	1	23 42 47.693	-25 54 25.35	9011	16134 S 5	VP	1801
9 25	7 29 54.5010	3	23 40 33.649	-49 38 14.89	9007	15179 S 7	VP	1796
9 25	7 29 56.0066	1	23 43 43.499	-25 12 46.62	9011	16134 S 6	VP	1802
9 25	7 30 2.5011	3	23 31 50.445	-49 1 6.59	9007	15179 S 8	VP	1797
9 25	7 30 4.0064	1	23 44 37.859	-24 31 7.05	9011	16134 S 7	VP	1803
9 25	7 30 10.5007	3	23 33 5.005	-48 23 39.41	9007	15179 S 9	VP	1798
9 25	7 30 12.0062	1	23 45 31.253	-23 49 25.99	9011	16134 S 8	VP	1804
9 26	23 10 3.3346	1	23 16 55.660	24 10 24.70	9006	13853 S 2	SU	2091
9 26	23 10 3.3464	1	0 22 2.291	37 15 3.55	9008	19643 S 5	YK	2098
9 26	23 10 11.3346	1	23 16 13.784	24 36 49.91	9006	13853 S 3	SU	2092
9 26	23 10 11.3467	1	0 21 9.416	37 55 35.43	9008	19643 S 6	YK	2099
9 26	23 10 19.3346	1	23 15 31.221	25 3 12.80	9006	13853 S 4	SU	2093
9 26	23 10 19.3471	1	0 20 15.189	38 36 2.78	9008	19643 S 7	YK	2100
9 26	23 10 27.3349	1	23 14 47.955	25 29 29.64	9006	13853 S 5	SU	2094
9 26	23 10 27.3472	1	0 19 19.913	39 16 17.03	9008	19643 S 8	YK	2101
9 26	23 10 35.3346	1	23 14 4.135	25 55 44.41	9006	13853 S 6	YK	2095
9 26	23 10 35.3475	1	0 18 23.730	39 56 17.14	9008	19643 S 9	YK	2102
9 26	23 10 43.3347	1	23 13 19.766	26 21 57.29	9006	13853 S 7	YK	2096
9 26	23 10 43.3476	1	0 17 25.999	40 36 4.88	9008	19643 S 10	YK	2103
9 26	23 10 51.3345	1	23 12 34.457	26 48 1.66	9006	13853 S 8	YK	2097
9 26	23 10 51.3479	1	0 16 27.082	41 15 42.40	9008	19643 S 11	YK	2104
9 26	23 12 27.3524	1	0 2 45.059	48 51 45.54	9008	19644 S 3	VP	2127
9 26	23 12 27.3534	1	23 2 39.220	31 54 46.21	9006	13854 S 4	VP	2122
9 26	23 12 35.3527	1	0 1 25.387	49 28 4.50	9008	19644 S 4	VP	2128
9 26	23 12 43.3533	1	23 0 49.447	32 44 41.08	9006	13854 S 6	VP	2123
9 26	23 12 51.3506	1	23 58 41.094	50 39 47.66	9008	19644 S 6	VP	2129
9 26	23 12 51.3532	1	22 59 53.524	33 9 24.55	9006	13854 S 7	VP	2124
9 26	23 12 59.3508	1	23 57 15.776	51 15 12.46	9008	19644 S 7	VP	2130
9 26	23 12 59.3534	1	22 58 56.739	33 34 1.02	9006	13854 S 8	VP	2125
9 26	23 13 7.3510	1	23 55 48.626	51 50 17.89	9008	19644 S 8	VP	2131
9 26	23 13 7.3535	1	22 57 59.248	33 58 32.36	9006	13854 S 9	VP	2126
9 26	23 15 7.3578	1	22 41 52.321	39 51 59.33	9006	13855 S 4	LM	2115
9 26	23 15 15.3524	1	23 26 42.337	60 28 8.12	9008	19645 S 2	LM	2119
9 26	23 15 15.3583	1	22 40 40.396	40 14 28.64	9006	13855 S 5	LM	2116
9 26	23 15 23.3529	1	23 24 26.671	60 57 31.00	9008	19645 S 3	LM	2120
9 26	23 15 23.3582	1	22 39 27.447	40 36 50.32	9006	13855 S 6	LM	2117
9 26	23 15 31.3530	1	23 22 7.383	61 26 34.31	9008	19645 S 4	LM	2121
9 26	23 15 31.3585	1	22 38 13.839	40 59 4.14	9006	13855 S 7	LM	2118
9 26	23 15 39.3532	1	23 19 44.764	61 55 12.87	9008	19645 S 5	LM	2280
9 28	22 46 19.3485	1	0 37 2.053	47 10 23.29	9008	19688 S 2	RO	2288
9 28	22 46 27.3403	1	23 9 39.875	31 32 37.71	9006	13889 S 3	RO	2281
9 28	22 46 27.3491	1	0 36 2.450	47 50 29.05	9008	19688 S 3	RO	2289
9 28	22 46 35.3402	1	23 8 45.767	31 59 33.08	9006	13889 S 4	RO	2282
9 28	22 46 35.3491	1	0 35 0.822	48 30 16.41	9008	19688 S 4	RO	2290

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 9 28	22 46 43.3407	1	23 7 50.930	32 26 21.31	4	9006	13889 S 5	RO	3140
9 28	22 46 43.3494	1	0 33 58.495	49 9 49.19	4	9008	19688 S 5	RO	2291
9 28	22 46 51.3425	1	23 6 55.038	32 53 3.55	4	9006	13889 S 6	RO	2284
9 28	22 46 51.3498	1	0 32 53.691	49 49 7.40	4	9008	19688 S 6	RO	2292
9 28	22 46 55.3409	1	23 5 58.597	33 19 36.60	4	9006	13889 S 7	RO	2285
9 28	22 46 59.3500	1	0 31 47.678	50 28 10.35	4	9008	19688 S 7	RO	2293
9 28	22 47 7.3405	1	23 5 0.921	33 46 5.46	4	9006	13889 S 8	RO	2286
9 28	22 47 7.3504	1	0 30 39.557	51 6 56.72	4	9008	19688 S 8	RO	2659
9 28	22 47 15.3401	1	23 4 2.791	34 12 28.06	4	9006	13889 S 9	RO	2287
9 28	22 50 3.3455	1	22 39 59.371	42 53 47.35	4	9006	13890 S 3	RO	2562
9 28	22 50 3.3540	1	23 55 31.630	63 58 24.37	4	9008	19689 S 6	RO	2569
9 28	22 50 11.3451	1	22 38 39.097	43 16 54.62	4	9006	13890 S 4	RO	2563
9 28	22 50 11.3541	1	23 53 17.527	64 29 32.29	4	9008	19689 S 7	RO	2570
9 28	22 50 19.3456	1	22 37 17.547	43 39 51.45	4	9006	13890 S 5	RO	2564
9 28	22 50 19.3543	1	23 50 59.023	65 0 11.95	4	9008	19689 S 8	RO	2571
9 28	22 50 27.3459	1	22 35 55.130	44 2 34.49	4	9006	13890 S 6	RO	2565
9 28	22 50 27.3543	1	23 48 35.867	65 30 27.44	4	9008	19689 S 9	RO	2572
9 28	22 50 35.3454	1	22 34 31.455	44 25 9.32	4	9006	13890 S 7	RO	3141
9 28	22 50 35.3544	1	23 46 7.338	66 0 24.65	4	9008	19689 S 10	RO	2573
9 28	22 50 43.3457	1	22 33 6.218	44 47 32.88	4	9006	13890 S 8	RO	2567
9 28	22 50 43.3545	1	23 43 34.263	66 29 56.10	4	9008	19689 S 11	RO	2574
9 28	22 50 51.3458	1	22 31 39.704	45 9 44.56	4	9006	13890 S 9	RO	2568
9 28	22 50 51.3550	1	23 40 55.052	66 59 5.12	4	9008	19689 S 12	RO	2575
9 29	23 56 43.3470	1	4 20 12.317	24 13 46.06	4	9004	15553 S 6	PK	2364
9 29	23 56 43.3512	1	23 27 47.190	31 32 58.44	4	9008	19709 S 5	YK	2370
9 29	23 56 51.3469	1	4 21 0.224	24 47 46.89	4	9004	15553 S 7	PK	2365
9 29	23 56 51.3515	1	23 26 52.962	32 4 18.92	4	9008	19709 S 6	YK	2371
9 29	23 56 59.3470	1	4 21 48.835	25 21 42.96	4	9004	15553 S 8	SU	2366
9 29	23 56 59.3517	1	23 25 57.601	32 35 33.21	4	9008	19709 S 7	YK	2372
9 29	23 57 7.3469	1	4 22 38.429	25 55 41.19	4	9004	15553 S 9	SU	2367
9 29	23 57 7.3517	1	23 25 1.203	33 6 35.80	4	9008	19709 S 8	YK	2373
9 29	23 57 15.3470	1	4 23 28.887	26 29 37.36	4	9004	15553 S 10	SU	2368
9 29	23 57 15.3517	1	23 24 3.990	33 37 36.94	4	9008	19709 S 9	YK	2374
9 29	23 57 23.3472	1	4 24 20.326	27 3 36.44	4	9004	15553 S 11	SU	2369
9 29	23 57 23.3519	1	23 23 5.924	34 8 25.56	4	9008	19709 S 10	YK	2375
9 29	23 57 31.3519	1	23 22 7.033	34 39 7.82	4	9008	19709 S 11	YK	2376
9 30	0 0 11.3469	1	4 46 32.884	38 44 2.36	4	9004	15554 S 4	GL	2576
9 30	0 0 11.3520	1	22 58 34.065	44 18 13.78	4	9008	19710 S 2	GL	2583
9 30	0 0 19.3468	1	4 47 50.414	39 16 22.83	4	9004	15554 S 5	GL	2577
9 30	0 0 19.3521	1	22 57 10.418	44 45 12.10	4	9008	19710 S 3	GL	2584
9 30	0 0 27.3469	1	4 49 9.506	39 48 33.18	4	9004	15554 S 6	GL	2578
9 30	0 0 27.3524	1	22 55 45.330	45 11 54.76	4	9008	19710 S 4	GL	2585
9 30	0 0 35.3470	1	4 50 30.862	40 20 34.36	4	9004	15554 S 7	GL	3144
9 30	0 0 35.3524	1	22 54 18.865	45 38 31.90	4	9008	19710 S 5	GL	2586
9 30	0 0 43.3469	1	4 51 52.214	40 52 31.04	4	9004	15554 S 8	GL	2580

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 9 30	C 0 43.3526	1	22 52 50.818	46 4 53.26	9008	19710 S 6	GL	2587
9 30	C 0 51.3470	1	4 53 16.066	41 24 12.17	9004	15554 S 9	GL	2581
9 30	C 0 51.3527	1	22 51 21.098	46 30 57.96	9008	19710 S 7	GL	2588
9 30	C 0 59.3471	1	4 54 41.628	41 55 49.31	9004	15554 S 10	GL	2582
9 30	11 12 43.3425	1	4 40 13.535	70 22 1.86	9012	15434 S 3	SU	2309
9 30	11 12 43.3520	1	22 52 31.868	38 46 49.42	9001	17756 S 3	GL	2302
9 30	11 12 51.3425	1	4 42 57.443	70 47 28.79	9012	15434 S 4	SU	2310
9 30	11 12 51.3522	1	22 51 19.955	39 11 21.37	9001	17756 S 4	GL	2303
9 30	11 12 59.3423	1	4 45 47.849	71 12 37.79	9012	15434 S 5	SU	2311
9 30	11 12 59.3522	1	22 50 6.888	39 35 44.33	9001	17756 S 5	GL	2304
9 30	11 13 7.3425	1	4 48 45.517	71 37 25.74	9012	15434 S 6	BN	2312
9 30	11 13 7.3523	1	22 48 53.042	39 59 57.28	9001	17756 S 6	GL	2305
9 30	11 13 15.3426	1	4 51 49.535	72 1 49.02	9012	15434 S 7	BN	2313
9 30	11 13 15.3524	1	22 47 37.980	40 24 5.50	9001	17756 S 7	GL	2306
9 30	11 13 23.3424	1	4 55 0.938	72 25 49.09	9012	15434 S 8	BN	2314
9 30	11 13 23.3523	1	22 46 21.840	40 48 0.99	9001	17756 S 8	GL	2307
9 30	11 13 31.3425	1	4 58 19.692	72 49 24.55	9012	15434 S 9	BN	2315
9 30	11 13 31.3522	1	22 45 4.676	41 11 47.54	9001	17756 S 9	GL	2308
10 1	1 12 27.3423	1	3 34 39.528	55 20 12.92	9004	15574 S 2	OK	6217
10 1	1 12 35.3422	1	3 35 52.825	56 0 6.90	9004	15574 S 3	OK	6218
10 1	1 12 43.3421	1	3 37 8.757	56 39 44.84	9004	15574 S 4	DK	6219
10 1	1 12 59.3422	1	3 39 48.349	57 58 10.58	9004	15574 S 6	JV	6220
10 1	1 12 59.3543	1	22 42 38.924	37 18 14.03	9008	19734 S 4	JV	6222
10 1	1 13 7.3421	1	3 41 12.475	58 37 1.84	9004	15574 S 7	JV	6221
10 1	1 13 7.3545	1	22 41 35.742	37 39 0.37	9008	19734 S 5	JV	6223
10 1	1 13 15.3545	1	22 40 31.626	37 59 39.42	9008	19734 S 6	JV	6224
10 1	1 13 23.3545	1	22 39 27.086	38 20 13.03	9008	19734 S 7	JV	6225
10 1	1 13 31.3547	1	22 38 21.276	38 40 39.64	9008	19734 S 8	JV	7025
10 1	23 40 11.9858	10	3 12 5.809	41 17 24.96	9115	3270 S 1	JV	9392
10 1	23 40 19.3509	1	6 3 33.712	54 16 53.13	9004	15585 S 1	DK	8763
10 1	23 40 19.3633	1	21 37 46.814	62 37 26.45	9008	19756 S 1	TA	8754
10 1	23 40 19.9876	10	3 12 58.108	41 57 41.26	9115	3270 S 2	JV	8760
10 1	23 40 27.3509	1	6 6 2.829	54 38 28.43	9004	15585 S 2	DK	8764
10 1	23 40 27.3636	1	21 34 45.352	62 53 5.30	9008	19756 S 2	TA	8755
10 1	23 40 27.9884	10	3 13 51.560	42 38 8.98	9115	3270 S 3	JV	8761
10 1	23 40 35.3506	1	6 8 34.321	54 59 47.97	9004	15585 S 3	DK	8765
10 1	23 40 35.3636	1	21 31 40.703	63 8 21.66	9008	19756 S 3	TA	8756
10 1	23 40 35.9904	10	3 14 46.596	43 18 18.41	9115	3270 S 4	JV	8762
10 1	23 40 43.3509	1	6 11 8.188	55 20 44.10	9004	15585 S 4	DK	8766
10 1	23 40 43.3638	1	21 28 34.120	63 23 14.63	9008	19756 S 4	TA	8757
10 1	23 40 51.3508	1	6 13 44.440	55 41 18.50	9004	15585 S 5	DK	8767
10 1	23 40 51.3640	1	21 25 24.772	63 37 45.22	9008	19756 S 5	TA	9391
10 1	23 40 59.3508	1	6 16 23.426	56 1 37.11	9004	15585 S 6	DK	8768
10 1	23 40 59.3639	1	21 22 12.549	63 51 50.33	9008	19756 S 6	TA	8758
10 1	23 41 7.3510	1	6 19 5.017	56 21 29.94	9004	15585 S 7	DK	8769

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 1	23 41 7.3640	1	21 18 58.780	64 5 34.67	9008	19756 S 7	TA	8759
10 2	10 44 19.3536	1	23 20 4.470	30 33 23.80	9001	17785 S 1	LR	7627
10 2	10 44 27.3538	1	23 19 10.274	31 2 14.16	9001	17785 S 2	LR	7628
10 2	10 44 35.3540	1	23 18 14.999	31 30 50.45	9001	17785 S 3	LR	7629
10 2	10 44 43.3542	1	23 17 19.150	31 59 33.31	9001	17785 S 4	KA	8697
10 2	10 44 51.3471	1	4 29 52.420	57 32 57.81	9012	15445 S 1	WI	7620
10 2	10 44 51.3544	1	23 16 22.264	32 28 5.16	9001	17785 S 5	KA	7631
10 2	10 44 59.3472	1	4 31 23.771	58 3 28.03	9012	15445 S 2	WI	7621
10 2	10 44 59.3543	1	23 15 24.505	32 56 27.63	9001	17785 S 6	KA	7632
10 2	10 45 7.3475	1	4 32 57.491	58 33 45.92	9012	15445 S 3	JW	7622
10 2	10 45 7.3545	1	23 14 25.711	33 24 47.15	9001	17785 S 7	KA	7633
10 2	10 45 15.3476	1	4 34 33.856	59 3 47.05	9012	15445 S 4	JW	8696
10 2	10 45 23.3475	1	4 36 13.486	59 33 24.84	9012	15445 S 5	JW	7624
10 2	10 45 31.3474	1	4 37 54.942	60 2 43.06	9012	15445 S 6	JW	7625
10 2	10 45 35.3476	1	4 39 39.223	60 31 48.45	9012	15445 S 7	LR	7626
10 2	10 47 47.3451	1	22 51 19.324	42 22 8.74	9001	17786 S 1	WC	7102
10 2	10 47 55.3450	1	22 49 58.108	42 47 21.36	9001	17786 S 2	WC	7103
10 2	10 48 3.3451	1	22 48 35.566	43 12 23.45	9001	17786 S 3	WC	7104
10 2	10 48 11.3590	1	5 23 57.634	68 41 8.47	9012	15446 S 1	LR	7108
10 2	10 48 19.3449	1	22 45 46.992	44 1 53.75	9001	17786 S 5	WC	7105
10 2	10 48 19.3589	1	5 27 2.258	69 3 27.79	9012	15446 S 2	LR	7109
10 2	10 48 27.3450	1	22 44 20.373	44 26 24.19	9001	17786 S 6	LR	7106
10 2	10 48 27.3508	1	5 30 11.256	69 25 11.71	9012	15446 S 3	KA	7110
10 2	10 48 35.3448	1	22 42 52.816	44 50 41.21	9001	17786 S 7	LR	7107
10 2	10 48 35.3590	1	5 33 26.675	69 46 35.53	9012	15446 S 4	KA	7111
10 2	10 48 43.3590	1	5 36 48.003	70 7 35.54	9012	15446 S 5	KA	7112
10 2	10 48 51.3591	1	5 40 14.971	70 28 13.72	9012	15446 S 6	KA	7113
10 2	10 48 59.3593	1	5 43 47.705	70 48 22.16	9012	15446 S 7	KA	7114
10 2	10 48 11.3509	1	4 59 13.541	30 45 33.86	9008	19770 S 1	JW	7124
10 2	10 48 11.3519	1	3 49 5.537	47 29 30.53	9006	13924 S 1	WI	7131
10 2	10 48 19.3528	1	3 50 5.053	48 8 36.87	9006	13924 S 2	WI	7132
10 2	10 48 27.3511	1	5 1 8.539	31 39 18.62	9008	19770 S 3	JW	7125
10 2	10 48 27.3529	1	3 51 6.298	48 47 35.85	9006	13924 S 3	WI	7133
10 2	10 48 35.3510	1	5 2 7.127	32 6 7.15	9008	19770 S 4	JW	7126
10 2	10 48 35.3535	1	3 52 9.038	49 26 10.75	9006	13924 S 4	WI	7134
10 2	10 48 43.3511	1	5 3 6.873	32 32 47.54	9008	19770 S 5	JW	7127
10 2	10 48 43.3536	1	3 53 13.443	50 4 33.05	9006	13924 S 5	WI	7135
10 2	10 48 51.3513	1	5 4 7.524	32 59 19.51	9008	19770 S 6	JW	7128
10 2	10 48 51.3541	1	3 54 19.946	50 42 43.51	9006	13924 S 6	WI	7136
10 2	10 48 56.3515	1	5 5 9.106	33 25 54.92	9008	19770 S 7	JW	7129
10 2	10 48 59.3541	1	3 55 27.991	51 20 35.68	9006	13924 S 7	WI	7137
10 2	10 49 7.3514	1	5 6 11.666	33 52 19.45	9008	19770 S 8	JW	7130
10 2	10 49 47.3546	1	5 30 42.891	42 16 54.14	9008	19771 S 1	AC	6210
10 2	10 49 47.3571	1	4 28 54.872	63 29 8.19	9006	13925 S 1	HP	6203
10 2	10 49 55.3548	1	5 32 8.745	42 40 35.24	9008	19771 S 2	AC	6211

Satellite 1963 30D

2 October - 3 October 1964

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.-NO.
1964 10 2	19 11 55.3576	1	4 31 7.336	64 0 15.48	4	9006	13925 S 2	HP	6204
10 2	19 12 3.3552	1	5 33 36.081	43 4 18.60	4	9008	19771 S 3	DK	6212
10 2	19 12 3.3576	1	4 33 24.110	64 31 3.28	4	9006	13925 S 3	AC	6205
10 2	19 12 11.3548	1	5 35 4.160	43 27 44.22	4	9008	19771 S 4	DK	6213
10 2	19 12 11.3588	1	4 35 46.012	65 1 23.19	4	9006	13925 S 4	AC	6206
10 2	19 12 19.3549	1	5 36 33.966	43 51 1.34	4	9008	19771 S 5	DK	6214
10 2	19 12 19.3591	1	4 38 12.698	65 31 24.39	4	9006	13925 S 5	AC	6207
10 2	19 12 27.3551	1	5 38 4.918	44 14 11.21	4	9008	19771 S 6	DK	6215
10 2	19 12 27.3582	1	4 40 44.366	66 1 1.08	4	9006	13925 S 6	AC	6208
10 2	19 12 35.3552	1	5 39 37.284	44 37 7.06	4	9008	19771 S 7	DK	6216
10 2	19 12 35.3582	1	4 43 21.205	66 30 16.32	4	9006	13925 S 7	EM	6209
10 2	19 15 7.3565	1	6 13 29.863	51 15 17.17	4	9008	19772 S 2	KA	6663
10 2	19 15 7.3618	1	5 55 46.747	74 18 55.07	4	9006	13926 S 1	KA	6658
10 2	19 15 15.3565	1	6 15 32.610	51 34 1.76	4	9008	19772 S 3	KA	6664
10 2	19 15 15.3636	1	6 1 9.529	74 38 17.82	4	9006	13926 S 2	KA	6659
10 2	19 15 23.3564	1	6 17 36.528	51 52 31.90	4	9008	19772 S 4	KA	6665
10 2	19 15 23.3633	1	6 6 41.269	74 56 49.02	4	9006	13926 S 3	KA	6660
10 2	19 15 31.3565	1	6 19 42.559	52 10 44.96	4	9008	19772 S 5	KA	6666
10 2	19 15 31.3623	1	6 12 26.101	75 14 45.48	4	9006	13926 S 4	KA	9395
10 2	19 15 47.3638	1	6 24 26.762	75 48 17.93	4	9006	13926 S 6	KA	6661
10 3	19 15 55.3569	1	6 26 9.752	53 3 56.30	4	9008	19772 S 8	KA	6669
10 3	19 15 55.3630	1	6 30 45.624	76 4 2.30	4	9006	13926 S 7	KA	6662
10 3	17 31 49.0848	1	23 49 20.419	34 3 9.69	4	9005	11118 S 3	EM	7473
10 3	17 32 5.0851	1	23 47 20.569	35 12 37.61	4	9005	11118 S 4	EM	7474
10 3	17 32 21.0858	30	23 45 16.023	36 21 49.13	4	9005	11118 S 5	EM	7475
10 3	17 32 27.3506	1	5 3 51.338	35 54 15.16	4	9006	13939 S 1	EM	7479
10 3	17 32 35.3507	1	5 4 57.972	36 21 50.56	4	9006	13939 S 2	LR	7480
10 3	17 32 37.0865	1	23 43 6.566	37 39 21.97	4	9005	11118 S 6	EM	7476
10 3	17 32 43.3508	1	5 6 5.733	36 49 18.10	4	9006	13939 S 3	LR	7481
10 3	17 32 51.3513	1	5 7 14.664	37 16 40.34	4	9006	13939 S 4	LR	7482
10 3	17 32 53.0865	10	23 40 52.143	38 38 13.38	4	9005	11118 S 7	EM	7477
10 3	17 32 59.3508	1	5 8 24.767	37 43 48.99	4	9006	13939 S 5	LR	7483
10 3	17 33 7.3515	1	5 9 35.807	38 10 56.84	4	9006	13939 S 6	LR	7484
10 3	17 33 9.0865	10	23 38 32.636	39 45 35.74	4	9005	11118 S 8	EM	7478
10 3	17 33 15.3516	1	5 10 48.094	38 37 55.27	4	9006	13939 S 7	LR	7485
10 3	17 36 35.7460	30	22 58 36.656	53 1 34.92	4	9005	11119 S 1	FI	6550
10 3	17 36 51.7466	30	22 54 33.739	53 56 15.33	4	9005	11119 S 2	FI	7038
10 3	17 37 7.3557	1	5 55 29.280	50 27 23.62	4	9006	13940 S 1	FI	6556
10 3	17 37 7.7469	1	22 50 21.022	54 49 32.16	4	9005	11119 S 3	FI	6551
10 3	17 37 15.3554	1	5 57 24.973	50 48 42.34	4	9006	13940 S 2	FI	6557
10 3	17 37 23.3559	1	5 59 22.415	51 9 53.87	4	9006	13940 S 3	FI	8022
10 3	17 37 23.7474	1	22 45 57.602	55 41 40.27	4	9005	11119 S 4	FI	6552
10 3	17 37 31.3557	1	6 1 21.574	51 30 47.84	4	9006	13940 S 4	FI	6559
10 3	17 37 36.3558	1	6 3 22.656	51 51 29.63	4	9006	13940 S 5	FI	6560
10 3	17 37 36.7477	1	22 41 23.264	56 32 33.06	4	9005	11119 S 5	FI	6553

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 3	17 27 47.3568	1	6 5 25.312	52 11 50.55	4	9006	13940 S 6	FI	6561
10 3	17 27 55.3563	1	6 7 30.083	52 31 59.61	4	9006	13940 S 7	FI	6562
10 3	17 27 55.7474	1	22 36 38.088	57 21 58.84	4	9005	11119 S 6	FI	6554
10 3	17 28 11.7477	1	22 31 39.274	58 10 18.88	4	9005	11119 S 7	FI	6555
10 3	20 26 35.3613	1	23 5 20.879	79 40 35.53	4	9006	13942 S 2	HP	7261
10 3	20 26 43.3620	1	6 24 10.180	67 5 45.05	4	9008	19791 S 5	EM	7268
10 3	20 26 43.3624	1	22 58 15.098	80 1 13.22	4	9006	13942 S 3	HP	7262
10 3	20 26 51.3623	1	6 28 3.922	67 23 25.36	4	9008	19791 S 6	EM	7269
10 3	20 26 51.3624	1	22 50 43.419	80 21 5.99	4	9006	13942 S 4	HP	7263
10 3	20 26 59.3623	1	6 31 55.645	67 40 35.92	4	9008	19791 S 7	EM	7270
10 3	20 26 59.3626	1	22 42 43.840	80 40 10.03	4	9006	13942 S 5	EM	7264
10 3	20 27 7.3620	1	22 34 14.140	80 58 23.23	4	9006	13942 S 6	EM	7265
10 3	20 27 7.3624	1	6 35 55.783	67 57 18.40	4	9008	19791 S 8	EM	7271
10 3	20 27 15.3622	1	22 25 15.307	81 15 37.87	4	9006	13942 S 7	EM	7266
10 3	20 27 15.3627	1	6 40 0.100	68 13 25.31	4	9008	19791 S 9	KA	7272
10 3	20 27 23.3629	1	22 15 43.930	81 31 56.37	4	9006	13942 S 8	EM	7267
10 3	20 27 23.3629	1	6 44 8.076	68 28 58.40	4	9008	19791 S10	KA	7273
10 3	23 10 19.3483	1	5 1 6.062	36 17 24.15	4	9004	15616 S 6	JV	7247
10 3	23 10 19.3622	1	23 10 0.898	53 4 28.67	4	9008	19793 S 4	DK	7254
10 3	23 10 27.3483	1	5 2 20.587	36 45 19.09	4	9004	15616 S 7	JV	7248
10 3	23 10 27.3625	1	23 8 13.658	53 32 42.85	4	9008	19793 S 5	DK	7255
10 3	23 10 35.3482	1	5 3 36.352	37 13 8.06	4	9004	15616 S 8	JV	7249
10 3	23 10 35.3625	1	23 6 24.374	54 3 36.24	4	9008	19793 S 6	DK	7256
10 3	23 10 42.3484	1	5 4 53.566	37 40 51.11	4	9004	15616 S 9	JV	7250
10 3	23 10 43.3629	1	23 4 32.541	54 28 15.73	4	9008	19793 S 7	DK	7257
10 3	23 10 51.3483	1	5 6 11.932	38 8 25.67	4	9004	15616 S10	JV	7251
10 3	23 10 51.3628	1	23 2 38.280	54 55 39.33	4	9008	19793 S 8	DK	7258
10 3	23 10 59.3486	1	5 7 31.995	38 35 54.74	4	9004	15616 S11	JV	7252
10 3	23 10 59.3627	1	23 0 41.673	55 22 43.04	4	9008	19793 S 9	DK	7259
10 3	23 11 7.3487	1	5 8 52.708	39 3 19.94	4	9004	15616 S12	JV	7253
10 3	23 11 7.3629	1	22 58 42.503	55 49 30.90	4	9008	19793 S10	DK	7260
10 3	23 14 11.3501	1	5 46 54.089	48 46 50.52	4	9004	15617 S 5	AC	6673
10 3	23 14 15.3630	1	21 56 43.536	64 48 0.79	4	9008	19794 S 7	LR	8023
10 3	23 14 27.3502	1	5 50 55.545	49 32 27.70	4	9004	15617 S 7	AC	6674
10 3	23 14 27.3633	1	21 53 28.021	65 5 40.06	4	9008	19794 S 8	LR	6670
10 3	23 14 35.3505	1	5 52 58.957	49 54 53.01	4	9004	15617 S 8	AC	6675
10 3	23 14 35.3634	1	21 50 8.474	65 22 53.61	4	9008	19794 S 9	LR	6671
10 3	23 14 42.3506	1	5 55 4.783	50 17 5.19	4	9004	15617 S 9	AC	6676
10 3	23 14 43.3635	1	21 46 45.965	65 39 41.70	4	9008	19794 S10	LR	6672
10 3	23 14 51.3508	1	5 57 12.124	50 39 0.86	4	9004	15617 S10	AC	7040
10 4	4 43 31.3558	1	4 52 42.487	41 12 29.70	4	9010	15267 S 2	AC	6598
10 4	4 43 39.3558	1	4 53 54.049	41 43 10.42	4	9010	15267 S 3	AC	6992
10 4	4 43 47.3548	1	23 20 21.269	24 18 55.35	4	9004	15624 S 6	WI	6593
10 4	4 43 47.3557	1	4 55 7.072	42 13 38.29	4	9010	15267 S 4	HP	6600
10 4	4 43 55.3560	1	4 56 21.577	42 43 58.65	4	9010	15267 S 5	HP	6601

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 4	4 44 2.3628	1	4 57 46.609	63 58 15.94	9009	13836 S 3	LR	6588
10 4	4 44 3.3545	1	23 18 52.852	25 8 33.85	9004	15624 S 7	FI	6594
10 4	4 44 3.356C	1	4 57 37.175	43 14 8.46	9010	15267 S 6	HP	6602
10 4	4 44 1C.3629	1	4 59 40.052	64 21 37.55	9009	13836 S 4	LR	6589
10 4	4 44 11.3562	1	4 58 54.308	43 44 3.86	9010	15267 S 7	HP	6603
10 4	4 44 18.3629	1	5 1 36.215	64 44 40.50	9009	13836 S 5	LR	7041
10 4	4 44 19.3544	1	23 17 21.730	25 58 2.74	9004	15624 S 8	FI	6595
10 4	4 44 26.3631	1	5 3 35.361	65 7 32.13	9009	13836 S 6	WI	6591
10 4	4 44 27.3565	1	5 1 33.383	44 43 25.22	9010	15267 S 9	HP	7042
10 4	4 44 34.3632	1	5 5 37.965	65 29 59.54	9009	13836 S 7	WI	6592
10 4	4 44 35.3542	1	23 15 48.175	26 47 18.57	9004	15624 S 9	AC	6596
10 4	4 44 51.3538	1	23 14 11.804	27 36 23.11	9004	15624 S10	AC	6597
10 4	4 46 59.3451	1	22 59 36.509	33 59 31.32	9004	15625 S 1	WC	6241
10 4	4 46 59.3620	1	5 32 21.922	53 23 19.51	9010	15268 S 1	AC	6247
10 4	4 47 7.362C	1	5 34 18.749	53 48 15.07	9010	15268 S 2	JW	6248
10 4	4 47 15.3454	1	22 57 32.692	34 45 58.89	9004	15625 S 2	WC	6242
10 4	4 47 15.3621	1	5 36 17.41C	54 12 49.09	9010	15268 S 3	JW	6249
10 4	4 47 23.3621	1	5 38 18.856	54 37 8.97	9010	15268 S 4	JW	6250
10 4	4 47 31.3453	1	22 55 25.668	35 32 1.92	9004	15625 S 3	WC	6243
10 4	4 47 31.3622	1	5 40 22.681	55 1 9.49	9010	15268 S 5	JW	7026
10 4	4 47 39.3624	1	5 42 28.144	55 24 58.40	9010	15268 S 6	JW	6251
10 4	4 47 47.3452	1	22 53 14.669	36 17 45.56	9004	15625 S 4	WC	6244
10 4	4 47 47.3625	1	5 44 36.558	55 48 26.64	9010	15268 S 7	JW	6252
10 4	4 48 3.3448	1	22 51 0.307	37 2 59.01	9004	15625 S 5	WC	6245
10 4	4 48 19.3446	1	22 48 42.397	37 47 47.74	9004	15625 S 6	WC	6246
10 4	4 50 27.3524	1	22 27 50.933	43 28 29.93	9004	15626 S 1	KA	7309
10 4	4 50 27.3641	1	6 36 20.527	62 29 22.20	9010	15269 S 1	JW	7315
10 4	4 50 35.3641	1	6 39 24.572	62 45 38.33	9010	15269 S 2	JW	7316
10 4	4 50 43.3526	1	22 24 54.776	44 8 32.40	9004	15626 S 2	KA	7310
10 4	4 50 43.364C	1	6 42 31.045	63 1 33.90	9010	15269 S 3	JW	7317
10 4	4 50 51.3642	1	6 45 40.265	63 17 5.30	9010	15269 S 4	JW	7318
10 4	4 50 59.3528	1	22 21 53.755	44 47 57.40	9004	15626 S 3	KA	7311
10 4	4 50 59.3642	1	6 48 52.007	63 32 12.56	9010	15269 S 5	HP	7319
10 4	4 51 7.3643	1	6 52 6.417	63 46 54.87	9010	15269 S 6	HP	7320
10 4	4 51 15.3526	1	22 18 48.487	45 26 42.14	9004	15626 S 4	JW	7312
10 4	4 51 15.3643	1	6 55 24.056	64 1 11.78	9010	15269 S 7	HP	7321
10 4	4 51 31.3523	1	22 15 38.321	46 4 47.46	9004	15626 S 5	JW	7313
10 4	4 51 47.3522	1	22 12 23.081	46 42 6.20	9004	15626 S 6	JW	7314
10 4	1C 19 31.3539	1	4 48 12.066	53 46 18.49	9012	15467 S 1	AC	7335
10 4	1C 19 39.3539	1	4 49 41.555	54 15 38.88	9012	15467 S 2	AC	8692
10 4	1C 19 47.3538	1	4 51 12.697	54 44 41.16	9012	15467 S 3	NG	7337
10 4	1C 19 55.3536	1	4 52 46.400	55 13 29.29	9012	15467 S 4	NG	7338
10 4	1C 19 55.3544	1	23 19 37.534	36 4 11.01	9001	17802 S 1	NG	7342
10 4	1C 20 3.3537	1	4 54 21.752	55 41 57.48	9012	15467 S 5	NG	7339
10 4	1C 20 3.3545	1	23 18 33.373	36 33 57.98	9001	17802 S 2	NG	7343

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 4	10 20 11.3544	1	23 17 27.976	37 3 32.76	4	9001	17802 S 3	JV	7344
10 4	10 20 19.3536	1	4 57 39.919	56 38 4.48	4	9012	15467 S 7	NG	7340
10 4	10 20 15.3545	1	23 16 21.656	37 32 57.23	4	9001	17802 S 4	JV	7345
10 4	10 20 27.3545	1	23 15 14.242	38 2 14.83	4	9001	17802 S 5	JV	7346
10 4	10 20 35.3537	1	5 1 6.911	57 33 7.10	4	9012	15467 S 9	NG	7341
10 2	19 15 35.3567	1	6 21 49.959	52 28 42.28	4	9008	19772 S 6	KA	6667
10 2	19 15 35.3625	1	6 18 21.110	75 31 50.95	4	9006	13926 S 5	KA	8021
10 2	19 15 47.3566	1	6 23 59.343	52 46 26.73	4	9008	19772 S 7	KA	6668
10 4	10 20 35.3548	1	23 14 5.691	38 31 22.62	4	9001	17802 S 6	JV	7347
10 4	10 20 43.3547	1	23 12 55.938	39 C 23.42	4	9001	17802 S 7	JV	7348
10 4	10 21 55.3574	1	5 21 0.418	61 50 20.65	4	9012	15468 S 1	HP	6143
10 4	10 22 3.3573	1	5 23 16.423	62 14 27.74	4	9012	15468 S 2	HP	6144
10 4	10 22 11.3571	1	5 25 35.202	62 38 15.18	4	9012	15468 S 3	HP	6145
10 4	10 22 11.3612	1	22 58 47.305	44 7 52.93	4	9001	17803 S 1	LR	6136
10 4	10 22 15.3571	1	5 27 57.126	63 1 34.20	4	9012	15468 S 4	HP	6146
10 4	10 22 19.3613	1	22 57 22.403	44 34 39.68	4	9001	17803 S 2	LR	6137
10 4	10 22 27.3569	1	5 30 22.709	63 24 40.84	4	9012	15468 S 5	HP	6147
10 4	10 22 27.3614	1	22 55 55.650	45 1 14.11	4	9001	17803 S 3	KA	6138
10 4	10 22 35.3614	1	22 54 27.752	45 27 41.98	4	9001	17803 S 4	KA	6139
10 4	10 22 43.3569	1	5 35 23.497	64 9 45.36	4	9012	15468 S 7	JM	6148
10 4	10 22 43.3612	1	22 52 58.209	45 53 57.20	4	9001	17803 S 5	KA	6140
10 4	10 22 51.3613	1	22 51 27.152	46 19 58.11	4	9001	17803 S 6	KA	6141
10 4	10 22 59.3571	1	5 40 39.545	64 53 31.23	4	9012	15468 S 9	JM	6149
10 4	10 22 59.3612	1	22 49 54.921	46 45 44.30	4	9001	17803 S 7	KA	6142
10 4	18 43 23.3532	1	4 14 46.176	46 52 52.88	4	9006	13956 S 2	AC	6164
10 4	18 43 31.3538	1	4 15 57.529	47 29 1.44	4	9006	13956 S 3	AC	6165
10 4	18 43 31.3542	1	5 3 39.152	30 49 28.69	4	9008	19811 S 2	DK	6171
10 4	18 43 39.3540	1	5 4 36.505	31 14 30.24	4	9008	19811 S 3	DK	6172
10 4	18 43 39.3542	1	4 17 11.001	48 4 53.14	4	9006	13956 S 4	AC	6993
10 4	18 43 47.3539	1	5 5 34.303	31 39 26.09	4	9008	19811 S 4	DK	6173
10 4	18 43 47.3548	1	4 18 26.040	48 40 36.48	4	9006	13956 S 5	HP	6167
10 4	18 43 55.3551	1	5 6 32.788	32 4 21.05	4	9008	19811 S 5	AC	6174
10 4	18 43 55.3555	1	4 19 43.254	49 16 2.82	4	9006	13956 S 6	HP	6168
10 4	18 44 3.3543	1	5 7 32.323	32 29 3.72	4	9008	19811 S 6	AC	7031
10 4	18 44 3.3550	1	4 21 1.964	49 51 13.66	4	9006	13956 S 7	HP	6169
10 4	18 44 11.3544	1	5 8 32.899	32 53 50.65	4	9008	19811 S 7	AC	6176
10 4	18 44 11.3547	1	4 22 23.081	50 26 9.08	4	9006	13956 S 8	DK	6170
10 4	18 46 59.3428	1	5 33 20.978	41 9 57.37	4	9008	19812 S 2	LR	6710
10 4	18 46 59.3591	1	5 0 26.225	61 34 4.61	4	9006	13957 S 3	AC	6703
10 4	18 47 7.3429	1	5 34 43.578	41 32 9.10	4	9008	19812 S 3	CB	6711
10 4	18 47 7.3606	1	5 2 50.508	62 2 19.33	4	9006	13957 S 4	AC	6704
10 4	18 47 15.3426	1	5 36 7.306	41 54 18.53	4	9008	19812 S 4	CB	6712
10 4	18 47 15.3605	1	5 5 18.768	62 30 9.75	4	9006	13957 S 5	LR	6705
10 4	18 47 22.3428	1	5 37 32.100	42 16 20.41	4	9008	19812 S 5	CB	6713
10 4	18 47 23.3622	1	5 7 51.184	62 57 41.53	4	9006	13957 S 6	LR	6706

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS.-NO.
1964 10 4	18 47 31.3427	1	5 38 57.781	42 38 5.40	9008	19812 S 6	CB	8015
10 4	18 47 31.3602	1	5 10 27.754	63 24 49.39	9006	13957 S 7	LR	6707
10 4	18 47 31.3612	1	5 13 8.778	63 51 31.71	9006	13957 S 8	LR	6708
10 4	18 47 31.3426	1	5 41 53.432	43 21 25.14	9008	19812 S 8	DK	6715
10 4	18 47 47.3615	1	5 15 54.403	64 17 50.55	9006	13957 S 9	LR	6709
10 4	18 50 19.3562	1	6 13 58.867	49 37 22.13	9008	19813 S 1	JW	6570
10 4	18 50 19.3624	1	6 25 41.848	71 12 17.26	9006	13958 S 3	WI	6563
10 4	18 50 27.3562	1	6 15 53.357	49 55 10.74	9008	19813 S 2	JW	6571
10 4	18 50 27.3620	1	6 30 24.454	71 28 56.31	9006	13958 S 4	WI	6564
10 4	18 50 35.3622	1	6 35 13.458	71 44 55.99	9006	13958 S 5	TA	6565
10 4	18 50 43.3562	1	6 19 47.601	50 30 6.22	9008	19813 S 4	JW	6572
10 4	18 50 43.3625	1	6 40 9.492	72 0 16.71	9006	13958 S 6	TA	6566
10 4	18 50 51.3564	1	6 21 46.670	50 47 10.37	9008	19813 S 5	JW	6573
10 4	18 50 51.3626	1	6 45 11.928	72 15 5.57	9006	13958 S 7	TA	6567
10 4	18 50 55.3565	1	6 23 47.429	51 4 9.06	9008	19813 S 6	JW	6574
10 4	18 50 59.3625	1	6 50 21.253	72 29 16.07	9006	13958 S 8	TA	6568
10 4	18 51 7.3565	1	6 25 49.538	51 20 50.86	9008	19813 S 7	JW	6575
10 4	18 51 7.3619	1	6 55 36.264	72 42 47.30	9006	13958 S 9	TA	6569
10 4	21 33 55.3586	1	22 56 39.061	50 56 13.24	9006	13959 S 3	EM	6646
10 4	21 33 55.3604	1	2 26 36.332	66 42 39.00	9008	19816 S 2	EM	6653
10 4	21 34 3.3577	1	22 54 56.799	51 22 40.05	9006	13959 S 4	EM	6647
10 4	21 34 3.3607	1	2 26 53.016	67 18 31.33	9008	19816 S 3	EM	6654
10 4	21 34 11.3579	1	22 53 12.796	51 48 53.23	9006	13959 S 5	EM	6648
10 4	21 34 11.3608	1	2 27 10.507	67 54 6.32	9008	19816 S 4	DK	6655
10 4	21 34 19.3586	1	22 51 26.786	52 14 48.88	9006	13959 S 6	EM	6649
10 4	21 34 19.3611	1	2 27 29.339	68 29 19.37	9008	19816 S 5	DK	6656
10 4	21 34 27.3581	1	22 49 38.708	52 40 25.88	9006	13959 S 7	EM	6650
10 4	21 34 27.3612	1	2 27 49.194	69 4 28.22	9008	19816 S 6	DK	6657
10 4	21 34 35.3585	1	22 47 48.792	53 5 46.49	9006	13959 S 8	EM	6651
10 4	21 34 35.3615	1	2 28 9.588	69 39 7.95	9008	19816 S 7	DK	7033
10 4	21 34 43.3587	1	22 45 56.841	53 30 51.22	9006	13959 S 9	EM	6652
10 4	21 34 43.3616	1	2 28 31.450	70 13 37.20	9008	19816 S 8	DK	7034
10 5	C 19 39.3436	1	4 1 10.709	39 4 25.55	9004	15638 S 1	JW	6539
10 5	C 19 39.3516	1	23 1 55.676	33 36 55.64	9008	19819 S 1	WI	6545
10 5	C 19 47.3433	1	4 2 11.276	39 43 3.68	9004	15638 S 2	JW	6540
10 5	C 19 55.3435	1	4 3 13.402	40 21 34.48	9004	15638 S 3	JW	6541
10 5	C 19 55.3519	1	23 0 2.139	34 26 45.66	9008	19819 S 3	WI	6546
10 5	C 20 3.3433	1	4 4 16.951	40 59 54.69	9004	15638 S 4	WI	6542
10 5	C 20 3.3518	1	22 59 4.087	34 51 32.59	9008	19819 S 4	WI	6547
10 5	C 20 11.3433	1	4 5 21.924	41 38 11.34	9004	15638 S 5	WI	6543
10 5	C 20 11.3518	1	22 58 5.304	35 16 16.98	9008	19819 S 5	HP	6548
10 5	C 20 19.3433	1	4 6 28.729	42 16 20.01	9004	15638 S 6	WI	6544
10 5	C 20 19.3520	1	22 57 5.536	35 40 48.19	9008	19819 S 6	HP	6549
10 5	C 20 27.3521	1	22 56 4.691	36 5 13.81	9008	19819 S 7	HP	7037
10 5	C 23 7.3466	1	4 37 22.091	54 51 37.04	9004	15639 S 1	RD	6576

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 5	C 23 7.3574	1	22 32 37.277	43 45 18.07	4	9008	19820 S 1	AC	6582
10 5	C 23 15.3464	1	4 39 17.736	55 24 52.41	4	9004	15639 S 2	RD	6577
10 5	C 23 23.3463	1	4 41 16.652	55 57 48.35	4	9004	15639 S 3	RD	6578
10 5	C 23 29.3575	1	22 29 53.714	44 27 59.44	4	9008	19820 S 3	AC	6583
10 5	C 23 31.3464	1	4 43 19.343	56 30 28.10	4	9004	15639 S 4	RD	6579
10 5	C 23 31.3576	1	22 28 30.255	44 49 7.71	4	9008	19820 S 4	AC	6584
10 5	C 23 39.3466	1	4 45 25.031	57 2 44.31	4	9004	15639 S 5	RD	6580
10 5	C 23 39.3577	1	22 27 5.988	45 10 5.72	4	9008	19820 S 5	AC	6585
10 5	C 23 47.3465	1	4 47 34.050	57 34 44.22	4	9004	15639 S 6	RD	6581
10 5	C 23 47.3575	1	22 25 40.015	45 30 42.60	4	9008	19820 S 6	AC	6586
10 5	C 23 55.3576	1	22 24 13.642	45 51 18.12	4	9008	19820 S 7	AC	6587
10 5	22 44 3.3484	1	4 54 7.161	30 51 48.65	4	9004	15652 S 2	HP	6716
10 5	22 44 3.3613	1	23 39 37.895	52 45 38.00	4	9008	19839 S 4	WC	6721
10 5	22 44 19.3483	1	4 56 12.334	31 45 26.72	4	9004	15652 S 3	HP	6717
10 5	22 44 19.3615	1	23 36 25.170	53 49 2.38	4	9008	19839 S 6	WC	6722
10 5	22 44 27.3617	1	23 34 45.842	54 20 16.03	4	9008	19839 S 7	WC	6723
10 5	22 44 35.3486	1	4 58 21.238	32 38 54.21	4	9004	15652 S 4	WC	6718
10 5	22 44 35.3618	1	23 33 4.034	54 51 14.61	4	9008	19839 S 8	JW	6724
10 5	22 44 43.3620	1	23 31 18.972	55 22 0.40	4	9008	19839 S 9	JW	6725
10 5	22 44 51.3487	1	5 5 34.614	33 31 59.72	4	9004	15652 S 5	WC	6719
10 5	22 44 51.3622	1	23 29 32.293	55 52 18.32	4	9008	19839 S 10	JW	6726
10 5	22 44 59.3624	1	23 27 42.761	56 22 22.24	4	9008	19839 S 11	JW	6727
10 5	22 45 7.3497	1	5 2 52.040	34 24 47.54	4	9004	15652 S 6	WC	6720
10 6	5 59 7.3586	1	6 16 24.552	64 28 21.81	4	9012	15497 S 1	EM	6883
10 6	5 59 7.3638	1	22 36 12.475	54 26 58.00	4	9001	17843 S 2	JW	6876
10 6	5 59 15.3585	1	6 19 18.802	64 45 42.11	4	9012	15497 S 2	EM	6884
10 6	5 59 15.3635	1	22 34 7.135	54 50 42.30	4	9001	17843 S 3	JW	6877
10 6	5 59 23.3586	1	6 22 15.749	65 2 45.39	4	9012	15497 S 3	EM	6885
10 6	5 59 23.3637	1	22 32 0.235	55 14 9.72	4	9001	17843 S 4	JW	6878
10 6	5 59 31.3585	1	6 25 16.816	65 19 24.11	4	9012	15497 S 4	EM	6886
10 6	5 59 31.3637	1	22 29 50.961	55 37 11.68	4	9001	17843 S 5	NG	6879
10 6	5 59 39.3587	1	6 28 20.249	65 35 41.92	4	9012	15497 S 5	EM	6887
10 6	5 59 39.3636	1	22 27 38.965	56 0 5.42	4	9001	17843 S 6	NG	6880
10 6	5 59 47.3588	1	6 31 27.001	65 51 35.60	4	9012	15497 S 6	EM	6888
10 6	5 59 47.3636	1	22 25 24.804	56 22 34.50	4	9001	17843 S 7	EM	6881
10 6	5 59 55.3589	1	6 34 36.917	66 7 7.47	4	9012	15497 S 7	EM	6889
10 6	5 59 55.3634	1	22 23 8.259	56 44 45.82	4	9001	17843 S 8	EM	6882
10 6	21 9 31.3604	1	22 55 4.862	57 23 59.16	4	9006	13993 S 1	KA	6936
10 6	21 9 31.3671	1	3 26 7.734	69 4 21.74	4	9008	19864 S 1	WI	6943
10 6	21 9 36.3605	1	22 52 56.857	57 49 30.99	4	9006	13993 S 2	KA	6937
10 6	21 9 39.3672	1	3 27 44.344	69 37 13.59	4	9008	19864 S 2	WI	6944
10 6	21 9 47.3607	1	22 50 46.656	58 14 42.90	4	9006	13993 S 3	WI	6938
10 6	21 9 47.3675	1	3 29 25.213	73 9 46.15	4	9008	19864 S 3	WI	6945
10 6	21 9 55.3609	1	22 43 33.502	58 39 31.68	4	9006	13993 S 4	WI	6939
10 6	21 9 55.3676	1	3 31 11.202	70 42 3.48	4	9008	19864 S 4	WC	6946

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 6	21 10 3.3613	1	22 46 17.309	59 4 3.59	4	9006	13993 S 5	WI	6940
10 6	21 10 3.3678	1	3 33 2.315	71 13 59.40	4	9008	19864 S 5	WC	6947
10 6	21 10 11.3612	1	22 43 58.673	59 28 16.27	4	9006	13993 S 6	WI	6941
10 6	21 10 11.3680	1	3 34 59.539	71 45 35.94	4	9008	19864 S 6	WC	6948
10 6	21 10 19.3616	1	22 41 36.655	59 52 9.01	4	9006	13993 S 7	WI	6942
10 6	21 10 19.3681	1	3 37 2.394	72 16 54.58	4	9008	19864 S 7	WC	6949
10 6	23 55 31.3559	1	4 25 31.567	41 55 15.34	4	9004	15675 S 7	EM	6227
10 6	23 55 31.3645	1	22 54 52.046	39 42 1.04	4	9008	19865 S 3	EM	6234
10 6	23 55 35.3560	1	4 26 47.183	42 30 19.17	4	9004	15675 S 8	EM	6228
10 6	23 55 39.3647	1	22 53 42.594	40 7 3.03	4	9008	19865 S 4	EM	6235
10 6	23 55 47.3559	1	4 28 4.284	43 5 8.88	4	9004	15675 S 9	EM	6229
10 6	23 55 47.3647	1	22 52 31.725	40 31 55.59	4	9008	19865 S 5	EM	6236
10 6	23 55 55.3559	1	4 29 23.177	43 39 50.79	4	9004	15675 S 10	EM	6230
10 6	23 55 55.3646	1	22 51 20.276	40 56 38.98	4	9008	19865 S 6	EM	6237
10 6	23 56 3.3558	1	4 30 43.794	44 14 20.91	4	9004	15675 S 11	EM	6231
10 6	23 56 3.3647	1	22 50 7.375	41 21 12.04	4	9008	19865 S 7	AC	6238
10 6	23 56 11.3559	1	4 32 6.266	44 48 38.95	4	9004	15675 S 12	EM	6232
10 6	23 56 11.3648	1	22 48 53.224	41 45 37.05	4	9008	19865 S 8	AC	6239
10 6	23 56 15.3561	1	4 33 3.450	45 22 46.37	4	9004	15675 S 13	EM	6233
10 6	23 56 15.3649	1	22 47 38.399	42 9 49.89	4	9008	19865 S 9	AC	6240
10 6	23 58 51.3569	1	5 7 15.566	55 28 16.45	4	9004	15676 S 3	KA	7027
10 6	23 58 59.3569	1	5 9 29.724	55 57 26.04	4	9004	15676 S 4	KA	6178
10 6	23 58 59.3663	1	22 18 25.058	49 36 34.36	4	9008	19866 S 3	KA	6184
10 6	23 59 7.3569	1	5 11 45.949	56 26 13.03	4	9004	15676 S 5	LR	6179
10 6	23 59 7.3665	1	22 16 43.918	49 56 48.44	4	9008	19866 S 4	KA	6185
10 6	23 59 15.3569	1	5 14 5.896	56 54 41.03	4	9004	15676 S 6	LR	6180
10 6	23 59 15.3666	1	22 15 0.480	50 16 53.27	4	9008	19866 S 5	KA	6186
10 6	23 59 23.3570	1	5 16 29.393	57 22 45.09	4	9004	15676 S 7	LR	7028
10 6	23 59 23.3666	1	22 13 16.028	50 36 45.67	4	9008	19866 S 6	LR	6187
10 6	23 59 31.3571	1	5 18 56.010	57 50 38.34	4	9004	15676 S 8	JW	6182
10 6	23 59 31.3666	1	22 11 30.692	50 56 15.20	4	9008	19866 S 7	LR	6188
10 6	23 59 35.3571	1	5 21 26.412	58 18 6.95	4	9004	15676 S 9	JW	6183
10 6	23 59 35.3667	1	22 9 42.929	51 15 40.48	4	9008	19866 S 8	KA	6189
10 8	20 43 31.3661	1	23 22 33.625	58 45 12.14	4	9006	14014 S 3	KA	6122
10 8	20 43 35.3663	1	23 20 31.605	59 13 35.36	4	9006	14014 S 4	KA	6123
10 8	20 43 47.3666	1	23 18 25.932	59 41 40.05	4	9006	14014 S 5	KA	6124
10 8	20 43 55.3673	1	23 16 18.160	60 9 13.13	4	9006	14014 S 6	KA	6125
10 8	20 43 55.3723	1	4 5 46.208	65 14 42.36	4	9008	19904 S 3	KA	7029
10 8	20 44 3.3671	1	23 14 5.183	60 36 42.02	4	9006	14014 S 7	KA	6126
10 8	20 44 3.3727	1	4 7 47.451	65 46 26.73	4	9008	19904 S 4	KA	6130
10 8	20 44 11.3728	1	4 9 52.265	66 17 51.99	4	9008	19904 S 5	KA	6131
10 8	20 44 15.3727	1	4 12 2.292	66 48 55.21	4	9008	19904 S 6	KA	6132
10 8	20 44 27.3674	1	23 7 10.542	61 56 41.14	4	9006	14014 S 10	KA	6127
10 8	20 44 27.3732	1	4 14 17.599	67 19 38.93	4	9008	19904 S 7	KA	6133
10 8	20 44 35.3673	1	23 4 45.373	62 22 36.92	4	9006	14014 S 11	KA	6128

Satellite 1963 30D

8 October - 10 October 1964

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 8	20 44 35.3734	1	4 16 37.923	67 50 3.47	4	9008	19904 S 8	KA	6134
10 8	20 44 43.3735	1	4 19 4.229	68 19 57.46	4	9008	19904 S 9	KA	6135
10 8	23 30 27.3672	1	22 56 3.780	43 20 11.42	4	9008	19907 S 3	JV	6197
10 8	23 30 35.3676	1	22 54 45.271	43 45 54.56	4	9008	19907 S 4	JV	6198
10 8	23 30 43.3678	1	22 53 25.669	44 11 34.10	4	9008	19907 S 5	JV	6199
10 8	23 30 51.3593	1	4 42 28.575	42 0 52.64	4	9004	15706 S 2	DK	6190
10 8	23 30 51.3679	1	22 52 4.753	44 37 0.06	4	9008	19907 S 6	EM	6200
10 8	23 30 59.3591	1	4 43 50.082	42 32 54.98	4	9004	15706 S 3	DK	6191
10 8	23 30 59.3681	1	22 50 42.451	45 2 18.03	4	9008	19907 S 7	EM	6201
10 8	23 31 7.3591	1	4 45 13.184	43 4 47.15	4	9004	15706 S 4	DK	6192
10 8	23 31 7.3680	1	22 49 19.174	45 27 17.78	4	9008	19907 S 8	EM	6202
10 8	23 31 15.3591	1	4 46 38.068	43 36 28.59	4	9004	15706 S 5	JV	6193
10 8	23 31 23.3591	1	4 48 4.521	44 7 59.32	4	9004	15706 S 6	JV	6194
10 8	23 31 31.3593	1	4 49 32.887	44 39 22.37	4	9004	15706 S 7	JV	6195
10 8	23 31 39.3595	1	4 51 3.136	45 10 31.70	4	9004	15706 S 8	JV	6196
10 9	10 42 27.3598	1	4 6 16.049	70 4 25.21	4	9012	15535 S 2	KA	7329
10 9	10 42 27.3664	1	22 55 59.949	36 35 23.94	4	9001	17885 S 6	HP	7322
10 9	10 42 35.3598	1	4 8 23.329	70 31 25.72	4	9012	15535 S 3	KA	7330
10 9	10 42 35.3664	1	22 54 56.041	36 59 23.48	4	9001	17885 S 7	HP	7323
10 9	10 42 43.3599	1	4 10 35.635	70 58 10.89	4	9012	15535 S 4	KA	7331
10 9	10 42 43.3662	1	22 53 51.251	37 23 17.95	4	9001	17885 S 8	HP	7324
10 9	10 42 51.3601	1	4 12 53.673	71 24 36.14	4	9012	15535 S 5	KA	7332
10 9	10 42 51.3664	1	22 52 45.509	37 47 3.66	4	9001	17885 S 9	WC	7325
10 9	10 42 59.3602	1	4 15 17.515	71 50 42.55	4	9012	15535 S 6	KA	7333
10 9	10 42 59.3662	1	22 51 38.861	38 10 42.80	4	9001	17885 S 10	WC	7326
10 9	10 43 7.3600	1	4 17 46.447	72 16 31.18	4	9012	15535 S 7	WI	7334
10 9	10 43 7.3662	1	22 50 31.315	38 34 14.97	4	9001	17885 S 11	WC	7327
10 9	10 43 15.3603	1	4 20 22.878	72 41 56.79	4	9012	15535 S 8	WI	8014
10 9	10 43 15.3662	1	22 49 22.718	38 57 36.37	4	9001	17885 S 12	WC	7328
10 9	21 54 27.3622	1	22 46 8.548	43 4 35.32	4	9006	14035 S 5	EM	6150
10 9	21 54 35.3696	1	0 23 4.919	63 42 0.62	4	9008	19927 S 5	WI	6157
10 9	21 54 43.3629	1	22 43 32.464	43 51 59.82	4	9006	14035 S 7	EM	6151
10 9	21 54 43.3697	1	0 21 20.081	64 14 28.13	4	9008	19927 S 6	WI	6158
10 9	21 54 51.3628	1	22 42 12.747	44 15 27.34	4	9006	14035 S 8	EM	6152
10 9	21 54 51.3698	1	0 19 32.023	64 46 36.54	4	9008	19927 S 7	WI	6159
10 9	21 54 59.3628	1	22 40 51.583	44 38 43.15	4	9006	14035 S 9	EM	6153
10 9	21 54 59.3699	1	0 17 39.432	65 18 25.48	4	9008	19927 S 8	WI	6160
10 9	21 55 7.3626	1	22 39 29.358	45 1 46.55	4	9006	14035 S 10	WI	6154
10 9	21 55 7.3703	1	0 15 43.105	65 49 48.55	4	9008	19927 S 9	WI	6161
10 9	21 55 15.3628	1	22 38 6.124	45 24 40.78	4	9006	14035 S 11	WI	6155
10 9	21 55 15.3704	1	0 13 42.310	66 20 58.00	4	9008	19927 S 10	WI	6162
10 9	21 55 23.3622	1	22 36 41.400	45 47 26.33	4	9006	14035 S 12	WI	6156
10 9	21 55 23.3703	1	0 11 37.233	66 51 49.28	4	9008	19927 S 11	WI	6163
10 10	20 20 27.3719	1	23 2 14.356	69 56 45.86	4	9006	14051 S 2	DK	6526
10 10	20 20 35.3720	1	22 58 43.392	70 20 1.69	4	9006	14051 S 3	DK	6527

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	URS.NO.
1964 10 10	20 20 43.3722	1	22 55 5.914	70 42 46.16	4	9006	14051 S 4	DK	6528
10 10	20 20 43.3783	1	5 20 36.761	69 16 42.34	4	9008	19947 S 2	SS	6532
10 10	20 20 51.3722	1	22 51 20.616	71 5 9.93	4	9006	14051 S 5	AC	6529
10 10	20 20 51.3786	1	5 24 11.606	69 40 19.60	4	9008	19947 S 3	SS	6533
10 10	20 20 59.3726	1	22 47 27.937	71 27 1.08	4	9006	14051 S 6	AC	6530
10 10	20 20 59.3786	1	5 27 53.022	70 3 26.53	4	9008	19947 S 4	FI	6534
10 10	20 21 7.3723	1	22 43 27.706	71 48 24.59	4	9006	14051 S 7	SS	6531
10 10	20 21 7.3788	1	5 31 41.696	70 26 5.08	4	9008	19947 S 5	FI	6535
10 10	20 21 15.3728	1	22 39 20.212	72 9 16.18	4	9006	14051 S 8	SS	7035
10 10	20 21 15.3792	1	5 35 38.224	70 48 16.67	4	9008	19947 S 6	FI	6536
10 10	20 21 22.3793	1	5 39 41.885	71 9 57.11	4	9008	19947 S 7	FI	7036
10 10	20 21 31.3796	1	5 43 53.924	71 31 0.80	4	9008	19947 S 8	FI	6538
10 25	18 35 37.1178	10	4 18 12.712	31 58 25.73	4	9115	3509 S 4	JW	8507
10 25	18 35 39.3993	1	21 21 38.171	88 27 17.32	4	9006	14396 S 7	SW	8500
10 25	18 35 45.1193	10	4 19 17.696	32 21 0.84	4	9115	3509 S 5	JW	8508
10 25	18 35 47.3982	1	20 21 42.252	88 32 23.36	4	9006	14396 S 8	SW	8501
10 25	18 35 53.1201	10	4 20 23.184	32 43 45.87	4	9115	3509 S 6	JW	8509
10 25	18 35 55.3984	1	19 19 38.758	88 31 9.67	4	9006	14396 S 9	SW	8502
10 25	18 36 1.1214	10	4 21 30.015	33 6 24.97	4	9115	3509 S 7	JW	8510
10 25	18 36 3.3997	1	18 23 38.790	88 23 53.47	4	9006	14396 S 10	SW	8503
10 25	18 36 11.3989	1	17 38 1.119	88 11 51.18	4	9006	14396 S 11	JW	8504
10 25	18 36 19.3998	1	17 2 45.816	87 56 34.91	4	9006	14396 S 12	JW	8505
10 25	18 36 27.3999	1	16 35 54.965	87 39 14.59	4	9006	14396 S 13	JW	8506
10 25	21 20 3.3945	1	22 38 38.886	67 32 1.67	4	9008	20265 S 3	JW	6629
10 25	21 20 3.4334	1	5 24 25.831	43 44 45.15	4	9004	15972 S 4	JW	6622
10 25	21 20 11.3946	1	22 35 28.147	67 52 51.87	4	9008	20265 S 4	JW	6630
10 25	21 20 11.4335	1	5 25 58.437	44 6 59.14	4	9004	15972 S 5	JW	6623
10 25	21 20 19.3946	1	22 32 11.129	68 13 26.48	4	9008	20265 S 5	JW	6631
10 25	21 20 19.4336	1	5 27 32.401	44 29 5.34	4	9004	15972 S 6	JW	6624
10 25	21 20 27.3948	1	22 28 49.360	68 33 36.71	4	9008	20265 S 6	JW	6632
10 25	21 20 27.4336	1	5 29 7.406	44 51 1.18	4	9004	15972 S 7	JW	6625
10 25	21 20 35.3948	1	22 25 23.282	68 53 15.28	4	9008	20265 S 7	JW	6633
10 25	21 20 35.4336	1	5 30 43.911	45 12 49.92	4	9004	15972 S 8	JW	6626
10 25	21 20 43.3951	1	22 21 51.146	69 12 30.48	4	9008	20265 S 8	JW	6634
10 25	21 20 43.4338	1	5 32 22.031	45 34 24.35	4	9004	15972 S 9	JW	6627
10 25	21 20 51.3950	1	22 18 13.836	69 31 19.76	4	9008	20265 S 9	WC	6635
10 25	21 20 51.4338	1	5 34 1.306	45 55 51.70	4	9004	15972 S 10	JW	7030
10 25	21 22 19.4322	1	5 53 53.379	49 39 40.20	4	9004	15973 S 3	AC	6636
10 25	21 22 27.3918	1	21 27 33.092	72 41 5.44	4	9008	20266 S 2	HP	7032
10 25	21 22 27.4320	1	5 55 51.192	49 58 48.78	4	9004	15973 S 4	AC	6637
10 25	21 22 35.3918	1	21 22 44.227	72 53 34.30	4	9008	20266 S 3	HP	6642
10 25	21 22 35.4320	1	5 57 50.549	50 17 46.33	4	9004	15973 S 5	HP	6638
10 25	21 22 43.3919	1	21 17 47.579	73 5 36.75	4	9008	20266 S 4	FM	6643
10 25	21 22 43.4322	1	5 59 51.660	50 36 27.72	4	9004	15973 S 6	HP	6639
10 25	21 22 51.3919	1	21 12 47.731	73 16 58.96	4	9008	20266 S 5	EM	6644

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 25	21 22 51.4322	1	6 1 54.190	50 54 57.90	9004	15973 S 7	HP	6640
10 25	21 22 59.3919	1	21 7 42.795	73 27 51.44	9008	20266 S 6	EM	6645
10 25	21 22 59.4323	1	6 3 58.672	51 13 14.55	9004	15973 S 8	HP	6641
10 26	C 10 12.1939	10	C 52 34.141	44 44 16.87	9115	3525 S 2	AC	9074
10 26	C 10 20.1953	10	C 0 51 45.793	45 21 16.54	9115	3525 S 3	AC	9075
10 26	C 10 28.1965	10	C 0 50 55.361	45 58 16.27	9115	3525 S 4	AC	9076
10 26	C 10 35.2265	1	2 3 36.376	81 31 23.49	9004	15979 S 3	DK	9067
10 26	C 10 36.1982	10	C 50 4.200	46 35 18.94	9115	3525 S 5	AC	9077
10 26	C 10 43.2264	1	2 3 31.303	82 1 8.81	9004	15979 S 4	DK	9068
10 26	C 10 44.2002	10	C 0 49 11.105	47 12 22.59	9115	3525 S 6	AC	9078
10 26	C 10 52.2015	10	C 0 48 16.622	47 49 28.23	9115	3525 S 7	HP	9079
10 26	C 10 55.2265	1	2 3 18.323	83 3 5.41	9004	15979 S 6	DK	9069
10 26	C 11 7.2265	1	2 3 10.418	83 29 18.71	9004	15979 S 7	DK	9070
10 26	C 11 15.2266	1	2 3 1.335	83 58 17.05	9004	15979 S 8	AC	9071
10 26	C 11 23.2264	1	2 2 50.503	84 27 1.56	9004	15979 S 9	AC	9072
10 26	C 11 31.2266	1	2 2 39.556	84 55 35.88	9004	15979 S10	AC	9073
10 26	C 13 48.2317	10	C 0 18 46.465	61 15 4.34	9115	3526 S 2	JV	8736
10 26	C 13 56.2334	10	C 0 16 48.373	61 50 30.24	9115	3526 S 3	JV	8737
10 26	C 14 3.2293	1	14 8 29.258	86 36 9.17	9004	15980 S 3	WI	9381
10 26	C 14 4.2348	10	C 0 14 45.316	62 25 47.02	9115	3526 S 4	JV	8738
10 26	C 14 11.2295	1	14 8 9.233	86 11 6.93	9004	15980 S 4	WI	8730
10 26	C 14 12.2362	10	C 0 12 37.216	63 0 53.13	9115	3526 S 5	JV	8739
10 26	C 14 15.2290	1	14 7 48.229	85 46 14.30	9004	15980 S 5	WI	8731
10 26	C 14 20.2372	10	C 0 10 23.671	63 35 49.52	9115	3526 S 6	JV	9383
10 26	C 14 27.2291	1	14 7 33.267	85 21 31.08	9004	15980 S 6	JV	8732
10 26	C 14 35.2292	1	14 7 21.326	84 56 58.01	9004	15980 S 7	JV	8733
10 26	C 14 43.2292	1	14 7 9.902	84 32 39.97	9004	15980 S 8	JV	9382
10 26	C 14 51.2292	1	14 7 1.231	84 8 23.38	9004	15980 S 9	JV	8735
10 26	16 56 35.3916	1	6 12 7.452	66 1 18.87	9006	14417 S 7	DK	7043
10 26	16 56 37.7313	1	5 55 4.528	46 51 56.35	9008	20285 S 7	DK	7049
10 26	16 56 43.3920	1	6 15 30.868	66 18 33.71	9006	14417 S 8	DK	7044
10 26	16 56 45.7316	1	5 56 41.149	47 9 8.33	9008	20285 S 8	WI	7050
10 26	16 56 51.3921	1	6 18 58.749	66 35 25.70	9006	14417 S 9	DK	7045
10 26	16 56 53.7318	1	5 58 19.882	47 26 10.01	9008	20285 S 9	WI	7051
10 26	16 56 59.3928	1	6 22 30.135	66 51 48.87	9006	14417 S10	DK	7046
10 26	16 57 1.7317	1	5 59 58.526	47 42 55.86	9008	20285 S10	WI	7052
10 26	16 57 7.3925	1	6 26 5.510	67 7 50.56	9006	14417 S11	DK	7047
10 26	16 57 15.3930	1	6 29 45.290	67 23 21.37	9006	14417 S12	DK	7048
10 26	19 43 7.8751	1	4 5 8.589	75 20 4.76	9008	20293 S 3	LR	6897
10 26	19 43 15.8754	1	4 8 28.552	75 46 16.73	9008	20293 S 4	LR	6898
10 26	19 43 23.8752	1	4 11 59.358	76 12 11.22	9008	20293 S 5	HP	6899
10 26	19 43 31.4091	1	22 15 55.785	65 26 21.77	9006	14421 S 3	JW	6900
10 26	19 43 31.8753	1	4 15 41.326	76 37 40.94	9008	20293 S 6	HP	6900
10 26	19 43 39.4096	1	22 12 54.155	65 45 13.47	9006	14421 S 4	JW	6891
10 26	19 43 39.8755	1	4 19 37.185	77 2 42.69	9008	20293 S 7	HP	6901

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 26	15 43 47.4097	1	22 9 49.060	66 3 43.08	4	9006	14421 S 5	JW	6892
10 26	15 43 47.8757	1	4 23 47.023	77 27 23.43	4	9008	20293 S 8	KA	6902
10 26	15 43 55.4095	1	22 6 40.490	66 21 48.51	4	9006	14421 S 6	LR	6893
10 26	15 43 55.8762	1	4 28 10.633	77 51 33.72	4	9008	20293 S 9	KA	6903
10 26	15 44 3.4097	1	22 3 27.604	66 39 30.98	4	9006	14421 S 7	LR	6894
10 26	15 44 11.4100	1	22 0 10.942	66 56 50.68	4	9006	14421 S 8	LR	6895
10 26	15 44 19.4103	1	21 56 51.004	67 13 48.55	4	9006	14421 S 9	LR	6896
10 26	15 46 27.7594	1	7 11 0.723	83 23 30.44	4	9008	20294 S 1	AC	9385
10 26	15 46 35.4362	1	20 50 20.132	70 56 1.58	4	9006	14422 S 2	AC	8425
10 26	15 46 43.7595	1	7 38 55.897	83 35 48.81	4	9008	20294 S 3	AC	8433
10 26	15 46 46.1746	10	4 21 21.332	38 35 51.54	4	9115	3551 S 2	WI	8985
10 26	15 46 51.4359	1	20 41 26.656	71 13 23.49	4	9006	14422 S 4	AC	8426
10 26	15 46 51.7594	1	7 53 21.626	83 39 40.02	4	9008	20294 S 4	AC	8434
10 26	15 46 54.1763	10	4 22 43.121	39 2 47.74	4	9115	3551 S 3	WI	8986
10 26	15 46 59.4363	1	20 36 54.945	71 21 17.47	4	9006	14422 S 5	AC	8427
10 26	15 46 55.7595	1	8 7 53.257	83 42 1.51	4	9008	20294 S 5	LR	8435
10 26	15 47 7.4363	1	20 32 21.867	71 28 43.61	4	9006	14422 S 6	AC	8428
10 26	15 47 7.7597	1	8 22 28.723	83 42 48.73	4	9008	20294 S 6	LR	8436
10 26	15 47 10.1795	10	4 25 30.835	39 56 20.81	4	9115	3551 S 5	WI	8987
10 26	15 47 15.4364	1	20 27 46.121	71 35 40.15	4	9006	14422 S 7	AC	9384
10 26	15 47 15.7600	1	8 36 59.402	83 42 4.11	4	9008	20294 S 7	LR	8437
10 26	15 47 18.1806	10	4 26 57.390	40 23 11.65	4	9115	3551 S 6	WI	8988
10 26	15 47 23.4366	1	20 23 9.636	71 42 7.58	4	9006	14422 S 8	AC	8430
10 26	15 47 23.7599	1	8 51 16.607	83 39 49.90	4	9008	20294 S 8	LR	8438
10 26	15 47 26.1818	10	4 28 25.515	40 49 54.91	4	9115	3551 S 7	WI	8989
10 26	15 47 31.4371	1	20 18 30.465	71 48 5.33	4	9006	14422 S 9	AC	8431
10 26	15 47 34.1829	10	4 29 54.777	41 16 35.67	4	9115	3551 S 8	WI	8990
10 26	15 47 42.1845	10	4 31 26.447	41 43 12.99	4	9115	3551 S 9	WI	8991
10 26	22 31 15.6753	1	22 9 21.404	52 44 23.48	4	9008	20295 S 1	KA	9386
10 26	22 31 21.5744	10	2 25 32.646	37 47 53.39	4	9115	3567 S 1	KA	8747
10 26	22 31 23.6753	1	22 7 33.322	53 2 52.00	4	9008	20295 S 2	KA	8741
10 26	22 31 29.5751	10	2 25 50.833	38 26 17.32	4	9115	3567 S 2	KA	8748
10 26	22 31 31.6754	1	22 5 43.434	53 21 11.70	4	9008	20295 S 3	KA	8742
10 26	22 31 37.5769	10	2 26 9.685	39 4 43.88	4	9115	3567 S 3	KA	8749
10 26	22 31 45.5788	10	2 26 28.686	39 43 24.60	4	9115	3567 S 4	KA	8750
10 26	22 21 53.5801	10	2 26 48.593	40 22 2.54	4	9115	3567 S 5	KA	8751
10 26	22 31 55.6756	1	22 0 5.119	54 14 44.05	4	9008	20295 S 6	KA	8743
10 26	22 32 1.5815	10	2 27 8.492	41 3 52.24	4	9115	3567 S 6	KA	8752
10 26	22 32 3.6755	1	21 58 9.591	54 32 8.21	4	9008	20295 S 7	KA	8744
10 26	22 32 9.5842	10	2 27 29.428	41 39 45.39	4	9115	3567 S 7	KA	8753
10 26	22 32 11.6754	1	21 56 12.023	54 49 21.62	4	9008	20295 S 8	KA	8745
10 26	22 32 19.6756	1	21 54 13.571	55 6 15.82	4	9008	20295 S 9	KA	8746
10 26	22 34 43.3947	1	6 34 27.421	66 48 34.66	4	9004	16006 S 2	KA	6728
10 26	22 34 51.3946	1	6 38 28.937	67 3 46.71	4	9004	16006 S 3	KA	6729
10 26	22 34 51.8437	1	21 11 32.826	59 41 41.34	4	9008	20296 S 2	KA	6735

DATE Y M D	TIME H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 26	22 25 7.3946	1	6 46 44.913	67 32 39.98	4	9004	16006 S 5	KA	6730
10 26	22 35 7.8438	1	21 6 31.367	6 5 5.63	4	9008	20296 S 4	KA	8016
10 26	22 35 15.3947	1	6 50 37.940	67 46 19.63	4	9004	16006 S 6	KA	6731
10 26	22 35 15.8438	1	21 3 58.574	60 16 26.16	4	9008	20296 S 5	KA	6737
10 26	22 35 23.3947	1	6 55 16.012	67 59 28.94	4	9004	16006 S 7	KA	6732
10 26	22 35 23.8441	1	21 1 24.313	60 27 28.69	4	9008	20296 S 6	KA	6738
10 26	22 35 31.3949	1	6 59 37.235	68 12 5.10	4	9004	16006 S 8	KA	6733
10 26	22 35 31.8440	1	20 58 48.710	60 38 9.87	4	9008	20296 S 7	KA	6739
10 26	22 35 39.8440	1	20 56 11.668	60 48 37.97	4	9008	20296 S 8	KA	6740
10 26	22 35 47.3951	1	7 8 30.783	68 35 34.80	4	9004	16006 S 10	KA	6734
10 26	22 35 55.8440	1	20 50 53.742	61 9 43.71	4	9008	20296 S 10	KA	6741
10 26	22 36 57.6339	10	2 51 44.362	65 24 56.17	4	9115	3569 S 1	KA	8861
10 26	22 37 5.6352	10	2 53 2.793	66 3 48.43	4	9115	3569 S 2	KA	8862
10 26	22 37 7.3891	1	7 55 47.860	69 59 8.91	4	9004	16007 S 1	KA	8855
10 26	22 37 13.6374	10	2 54 25.656	66 42 33.16	4	9115	3569 S 3	KA	8863
10 26	22 37 15.3893	1	8 0 40.548	70 4 19.26	4	9004	16007 S 2	KA	8856
10 26	22 37 21.6390	10	2 55 52.815	67 21 11.92	4	9115	3569 S 4	KA	8864
10 26	22 37 23.3892	1	8 5 35.836	70 8 53.81	4	9004	16007 S 3	KA	8857
10 26	22 37 25.6404	10	2 57 25.119	67 59 37.36	4	9115	3569 S 5	KA	8865
10 26	22 37 31.3892	1	8 10 32.189	70 12 58.00	4	9004	16007 S 4	KA	9387
10 26	22 37 37.6421	10	2 59 2.377	68 37 54.94	4	9115	3569 S 6	KA	8866
10 26	22 37 39.3894	1	8 15 26.496	70 16 21.82	4	9004	16007 S 5	KA	8858
10 26	22 37 47.3894	1	8 20 22.361	70 19 13.18	4	9004	16007 S 6	KA	8859
10 26	22 37 55.3896	1	8 25 18.068	70 21 31.19	4	9004	16007 S 7	KA	8860
10 27	1 20 11.1510	1	22 41 59.943	64 50 26.18	4	9004	16014 S 1	EM	8511
10 27	1 20 15.4758	10	0 13 56.863	34 54 43.26	4	9115	3577 S 2	JV	8518
10 27	1 20 15.1511	1	22 38 56.613	65 13 22.83	4	9004	16014 S 2	EM	8512
10 27	1 20 23.4785	10	0 13 3.232	35 24 58.50	4	9115	3577 S 3	JV	8519
10 27	1 20 27.1509	1	22 35 48.590	65 35 56.67	4	9004	16014 S 3	EM	8513
10 27	1 20 31.4796	10	0 12 8.646	35 55 17.93	4	9115	3577 S 4	JV	8520
10 27	1 20 35.1508	1	22 32 35.750	65 58 3.61	4	9004	16014 S 4	EM	8514
10 27	1 20 39.4828	10	0 11 12.783	36 25 37.34	4	9115	3577 S 5	JV	9388
10 27	1 20 43.1509	1	22 29 17.748	66 19 49.46	4	9004	16014 S 5	EM	8515
10 27	1 20 47.4838	10	0 10 15.639	36 56 2.14	4	9115	3577 S 6	JV	8522
10 27	1 20 51.1509	1	22 25 55.285	66 41 7.84	4	9004	16014 S 6	JV	8516
10 27	1 20 59.1509	1	22 22 27.722	67 1 57.59	4	9004	16014 S 7	JV	8517
10 27	18 9 31.3996	1	6 43 57.537	86 57 23.25	4	9006	14446 S 2	EM	6904
10 27	18 9 35.3997	1	7 13 27.591	87 5 10.93	4	9006	14446 S 3	EM	6905
10 27	18 9 47.3998	1	7 44 54.014	87 9 53.58	4	9006	14446 S 4	EM	6906
10 27	18 9 55.3871	1	7 4 8.921	63 36 6.88	4	9008	20320 S 1	NG	6911
10 27	18 9 55.3999	1	8 17 14.667	87 11 10.42	4	9006	14446 S 5	NG	8017
10 27	18 10 3.3869	1	7 7 23.520	63 47 27.47	4	9008	20320 S 2	NG	8018
10 27	18 10 3.3999	1	8 49 16.815	87 9 8.50	4	9006	14446 S 6	NG	6908
10 27	18 10 11.4001	1	9 19 48.153	87 3 54.01	4	9006	14446 S 7	NG	6909
10 27	18 10 15.3870	1	7 13 59.755	64 9 4.56	4	9008	20320 S 4	NG	6913

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 27	18 10 19.4004	1	9 47 52.007	86 55 49.25	4	9006	14446 S 8	NG	6910
10 27	18 10 27.3871	1	7 17 20.564	64 19 17.80	4	9008	20320 S 5	JV	6914
10 27	18 10 35.3872	1	7 20 42.091	64 29 6.82	4	9008	20320 S 6	JV	6915
10 27	18 10 43.3875	1	7 24 6.125	64 38 32.50	4	9008	20320 S 7	JV	6916
10 27	18 10 51.3878	1	7 27 32.257	64 47 37.88	4	9008	20320 S 8	JV	6917
10 27	20 54 27.3857	1	22 8 18.961	50 44 52.45	4	9006	14447 S 1	WI	7349
10 27	20 54 27.3909	1	22 52 53.934	72 32 28.05	4	9008	20327 S 1	LR	7355
10 27	20 54 35.3859	1	22 6 39.619	51 2 48.00	4	9006	14447 S 2	WI	7350
10 27	20 54 35.3911	1	22 48 55.639	72 53 23.68	4	9008	20327 S 2	LR	7356
10 27	20 54 43.3859	1	22 4 59.186	51 20 32.00	4	9006	14447 S 3	TA	7351
10 27	20 54 43.3909	1	22 44 48.086	73 13 55.92	4	9008	20327 S 3	LR	7357
10 27	20 54 51.3859	1	22 3 17.168	51 38 5.24	4	9006	14447 S 4	TA	8693
10 27	20 54 51.3921	1	22 40 33.323	73 33 54.38	4	9008	20327 S 4	LR	7358
10 27	20 54 59.3860	1	22 1 34.116	51 55 25.22	4	9006	14447 S 5	TA	8019
10 27	20 54 59.3914	1	22 36 8.253	73 53 29.32	4	9008	20327 S 5	LR	7359
10 27	20 55 7.3861	1	21 59 49.671	52 12 34.85	4	9006	14447 S 6	TA	7353
10 27	20 55 7.3912	1	22 31 35.347	74 12 29.88	4	9008	20327 S 6	LR	7360
10 27	20 55 15.3862	1	21 58 3.879	52 29 34.89	4	9006	14447 S 7	TA	7354
10 27	20 55 15.3917	1	22 26 52.789	74 31 0.39	4	9008	20327 S 7	LR	7361
10 27	20 58 24.5588	10	4 8 20.193	49 7 34.06	4	9115	3609 S 4	SW	9009
10 27	20 58 32.5603	1	4 10 3.508	49 39 48.03	4	9115	3609 S 5	SW	9010
10 27	20 58 40.5609	10	4 11 50.177	50 11 56.88	4	9115	3609 S 6	SW	9011
10 27	20 58 48.5620	10	4 13 39.256	50 43 58.40	4	9115	3609 S 7	SW	9012
10 27	20 58 51.5938	1	19 25 6.332	78 39 28.32	4	9008	20328 S 7	RD	9004
10 27	20 58 56.5630	10	4 15 31.257	51 15 57.44	4	9115	3609 S 8	DK	9394
10 27	20 59 4.5640	10	4 17 26.370	51 47 42.48	4	9115	3609 S 9	DK	9013
10 27	20 59 7.3943	1	19 10 3.395	78 35 44.47	4	9008	20328 S 9	RD	9005
10 27	20 59 12.5650	10	4 19 24.686	52 19 21.67	4	9115	3609 S 10	DK	9014
10 27	20 59 15.3943	1	19 2 40.607	78 32 49.88	4	9008	20328 S 10	RD	9006
10 27	20 59 23.3946	1	18 55 23.141	78 29 13.31	4	9008	20328 S 11	SW	9393
10 27	20 59 31.3944	1	18 48 14.800	78 24 52.20	4	9008	20328 S 12	SW	9008
10 27	23 42 21.1155	10	1 15 38.368	37 22 8.04	4	9115	3622 S 1	JV	9087
10 27	23 42 29.1174	10	1 15 11.743	37 59 8.48	4	9115	3622 S 2	JV	9088
10 27	23 42 35.4333	1	3 10 38.609	72 45 50.38	4	9004	16045 S 1	JV	9080
10 27	23 42 37.1187	10	1 14 44.357	38 36 20.44	4	9115	3622 S 3	JV	9089
10 27	23 42 43.4332	1	3 12 27.304	73 17 48.92	4	9004	16045 S 2	JV	9081
10 27	23 42 45.1199	10	1 14 16.590	39 13 39.51	4	9115	3622 S 4	JV	9090
10 27	23 42 51.4333	1	3 14 21.464	73 49 24.34	4	9004	16045 S 3	JV	9082
10 27	23 42 53.1217	10	1 13 47.995	39 50 59.12	4	9115	3622 S 5	JV	9091
10 27	23 42 59.4333	1	3 16 23.128	74 20 48.26	4	9004	16045 S 4	JV	9083
10 27	23 43 7.4334	1	3 18 32.480	74 51 47.55	4	9004	16045 S 5	JV	9084
10 27	23 43 9.1250	10	1 12 48.253	41 5 54.95	4	9115	3622 S 7	TA	9092
10 27	23 43 15.4333	1	3 20 49.594	75 22 39.59	4	9004	16045 S 6	JV	9085
10 27	23 43 17.1268	10	1 12 17.100	41 43 35.22	4	9115	3622 S 8	TA	366
10 27	23 43 23.4334	1	3 23 15.415	75 53 9.08	4	9004	16045 S 7	JV	9086

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 28	2 33 15.1679	1	21 47 55.187	55 23 5.98	9004	16048 S 2	LR	8303
10 28	2 33 22.7620	10	23 44 33.043	36 11 51.31	9115	3631 S 3	JW	8310
10 28	2 33 27.1680	1	21 45 41.440	55 39 27.12	9004	16048 S 3	LR	8304
10 28	2 33 30.7635	10	23 43 31.025	36 36 53.62	9115	3631 S 4	JW	8311
10 28	2 33 35.1678	1	21 43 25.600	55 55 32.51	9004	16048 S 4	TA	8305
10 28	2 33 38.7648	10	23 42 27.346	37 1 57.36	9115	3631 S 5	JW	8312
10 28	2 33 43.1681	1	21 41 7.659	56 11 25.16	9004	16048 S 5	TA	8306
10 28	2 33 46.7657	10	23 41 22.971	37 26 56.35	9115	3631 S 6	JW	8313
10 28	2 33 51.1681	1	21 38 48.548	56 26 58.72	9004	16048 S 6	TA	8307
10 28	2 33 54.7674	10	23 40 17.121	37 51 56.79	9115	3631 S 7	JW	8314
10 28	2 33 59.1678	1	21 36 27.109	56 42 19.86	9004	16048 S 7	TA	8308
10 28	2 34 2.7685	10	23 39 10.596	38 16 58.77	9115	3631 S 8	JW	8694
10 28	2 34 7.1678	1	21 34 4.115	56 57 23.13	9004	16048 S 8	TA	8309
10 28	2 34 18.7713	10	23 36 53.263	39 6 51.96	9115	3631 S 10	JW	8695
10 28	2 36 39.1690	1	20 43 37.581	60 47 47.04	9004	16049 S 1	LR	9039
10 28	2 36 42.7947	10	23 11 59.351	46 28 54.85	9115	3632 S 1	HP	9046
10 28	2 36 50.7962	10	23 10 20.846	46 52 48.03	9115	3632 S 2	HP	9047
10 28	2 36 55.1692	1	20 37 48.769	61 5 25.84	9004	16049 S 3	LR	9040
10 28	2 36 58.7977	10	23 8 39.791	47 16 37.17	9115	3632 S 3	HP	9048
10 28	2 37 3.1691	1	20 34 52.483	61 13 54.76	9004	16049 S 4	LR	9041
10 28	2 37 6.7995	10	23 6 57.045	47 40 19.10	9115	3632 S 4	HP	9049
10 28	2 37 11.1690	1	20 31 55.439	61 21 55.67	9004	16049 S 5	LR	9042
10 28	2 37 14.8005	10	23 5 12.432	48 3 52.79	9115	3632 S 5	EM	9050
10 28	2 37 19.1690	1	20 28 56.645	61 29 40.58	9004	16049 S 6	HP	9043
10 28	2 37 22.8023	10	23 3 25.655	48 27 19.70	9115	3632 S 6	EM	9051
10 28	2 37 27.1690	1	20 25 57.714	61 37 1.85	9004	16049 S 7	HP	9044
10 28	2 37 30.8035	10	23 1 36.479	48 50 38.29	9115	3632 S 7	EM	9052
10 28	2 37 35.1687	1	20 22 57.339	61 44 5.34	9004	16049 S 8	HP	9045
10 28	19 17 39.3953	1	5 7 28.399	73 38 6.16	9008	20355 S 1	AC	7060
10 28	19 17 47.3952	1	5 11 40.462	74 0 6.35	9008	20355 S 2	AC	7061
10 28	19 17 47.3954	1	22 22 8.711	70 11 3.63	9006	14479 S 2	DK	7053
10 28	19 17 55.3957	1	5 16 2.337	74 21 37.14	9008	20355 S 3	AC	7062
10 28	19 17 55.3959	1	22 18 22.462	70 29 34.89	9006	14479 S 3	DK	7054
10 28	19 18 3.3956	1	5 20 34.548	74 42 34.92	9008	20355 S 4	AC	7063
10 28	19 18 3.3958	1	22 14 30.722	70 47 38.93	9006	14479 S 4	DK	7055
10 28	19 18 11.3957	1	22 10 33.416	71 5 18.29	9006	14479 S 5	DK	7056
10 28	19 18 11.3958	1	5 25 18.659	75 3 6.03	9008	20355 S 5	AC	7064
10 28	19 18 19.3960	1	22 6 30.297	71 22 26.87	9006	14479 S 6	DK	7057
10 28	19 18 35.3967	1	5 40 37.674	76 1 16.19	9008	20355 S 8	AC	7065
10 28	19 18 43.3965	1	21 53 42.285	72 11 6.52	9006	14479 S 9	DK	7058
10 28	19 18 43.3965	1	5 46 8.658	76 19 33.90	9008	20355 S 9	AC	7066
10 28	19 18 51.3966	1	21 49 13.913	72 26 20.15	9006	14479 S 10	DK	7059
10 28	22 8 11.3974	1	21 15 39.553	61 56 15.27	9008	20362 S 2	EM	8182
10 28	22 8 19.3462	1	6 22 26.433	62 27 47.52	9004	16073 S 3	EM	8175
10 28	22 8 19.3975	1	21 12 54.236	62 8 40.40	9008	20362 S 3	EM	8183

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 28	22 8 27.3462	1	6 25 42.039	62 44 32.24	9004	16073 S 4	EM	8176
10 28	22 8 27.3976	1	21 10 7.084	62 20 46.59	9008	20362 S 4	EM	8184
10 28	22 8 28.3439	10	2 56 7.725	52 27 59.60	9115	3672 S 1	DK	8782
10 28	22 8 35.3458	1	6 29 1.654	63 0 52.72	9004	16073 S 5	EM	8177
10 28	22 8 35.3977	1	21 7 18.773	62 32 33.28	9008	20362 S 5	WI	8185
10 28	22 8 36.3450	10	2 57 2.709	53 6 46.07	9115	3672 S 2	DK	8783
10 28	22 8 42.3977	1	21 4 27.180	62 44 2.53	9008	20362 S 6	WI	8186
10 28	22 8 44.3463	10	2 57 59.993	53 45 33.13	9115	3672 S 3	EM	8784
10 28	22 8 51.3452	1	6 35 48.529	63 32 22.62	9004	16073 S 7	EM	8178
10 28	22 8 51.3978	1	21 1 35.650	62 55 10.26	9008	20362 S 7	WI	8187
10 28	22 8 52.3483	10	2 58 59.216	54 24 14.90	9115	3672 S 4	EM	8785
10 28	22 8 59.3450	1	6 39 17.179	63 47 25.31	9004	16073 S 8	EM	8179
10 28	22 8 59.3978	1	20 58 41.210	63 6 5.02	9008	20362 S 8	WI	8188
10 28	22 9 0.3501	10	3 0 0.395	55 3 0.77	9115	3672 S 5	EM	8786
10 28	22 9 7.3447	1	6 42 48.543	64 2 3.35	9004	16073 S 9	EM	8180
10 28	22 9 8.3511	10	3 1 3.812	55 41 40.72	9115	3672 S 6	EM	8787
10 28	22 9 15.3446	1	6 46 22.681	64 16 16.93	9004	16073 S 10	EM	8181
10 28	22 9 16.3529	10	3 2 9.404	56 20 17.84	9115	3672 S 7	EM	8788
10 28	22 11 31.3815	1	7 53 27.388	67 6 2.94	9004	16074 S 1	FI	8992
10 28	22 11 35.3814	1	7 57 39.894	67 11 38.11	9004	16074 S 2	FI	8993
10 28	22 11 40.3779	10	3 31 47.277	67 39 15.96	9115	3673 S 1	FI	8998
10 28	22 11 47.3814	1	8 1 52.709	67 16 45.04	9004	16074 S 3	FI	8994
10 28	22 11 48.3792	10	3 34 16.061	68 15 29.57	9115	3673 S 2	FI	8999
10 28	22 11 56.3807	10	3 36 52.647	68 51 25.97	9115	3673 S 3	FI	9000
10 28	22 12 3.3816	1	8 10 20.717	67 25 28.96	9004	16074 S 5	FI	9389
10 28	22 12 4.3820	10	3 39 37.642	69 27 8.10	9115	3673 S 4	FI	9001
10 28	22 12 11.3817	1	8 14 35.183	67 29 5.94	9004	16074 S 6	FI	8996
10 28	22 12 19.3817	1	8 18 49.519	67 32 14.93	9004	16074 S 7	FI	9390
10 28	22 12 20.3853	10	3 45 35.663	70 37 39.22	9115	3673 S 6	FI	9002
10 28	22 12 28.3869	10	3 48 50.993	71 12 30.00	9115	3673 S 7	FI	9003
10 29	C 53 31.9020	10	C 25 3.632	33 47 41.34	9115	3682 S 1	WC	8795
10 29	C 53 35.9031	10	C 24 16.299	34 19 7.33	9115	3682 S 2	WC	8796
10 29	C 53 47.9056	10	C 23 27.589	34 50 31.60	9115	3682 S 3	WC	8797
10 29	C 53 55.9071	10	C 22 38.094	35 22 C.43	9115	3682 S 4	WC	8798
10 29	C 54 3.9090	10	C 21 47.315	35 53 31.11	9115	3682 S 5	HP	8799
10 29	C 54 11.9111	10	C 20 55.495	36 25 7.75	9115	3682 S 6	HP	8800
10 29	C 54 15.9131	10	C 20 2.449	36 56 40.36	9115	3682 S 7	HP	8801
10 29	C 54 27.4720	1	22 54 15.397	69 34 32.85	9004	16080 S 3	WC	8789
10 29	C 54 35.4720	1	22 50 34.758	69 57 48.29	9004	16080 S 4	WC	8790
10 29	C 54 43.4720	1	22 46 47.479	70 20 35.86	9004	16080 S 5	WC	8791
10 29	C 54 51.4725	1	22 42 52.429	70 42 54.21	9004	16080 S 6	WC	8792
10 29	C 54 59.4719	1	22 38 49.825	71 4 45.95	9004	16080 S 7	WC	8793
10 29	C 55 7.4719	1	22 34 39.013	71 26 5.19	9004	16080 S 8	WC	8794
10 29	C 56 19.4714	1	21 50 34.766	74 13 11.13	9004	16081 S 4	WI	8523
10 29	C 56 27.4715	1	21 44 55.222	74 28 42.08	9004	16081 S 5	WI	8524

Satellite 1963 30D

29 October 1964

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 10 29	C 56 27.9354	10	0 2 55.803	45 24 39.09	4	9115	3683 S 2	WC	8530
10 29	C 56 35.9371	10	0 1 37.661	45 56 20.10	4	9115	3683 S 3	WC	8531
10 29	C 56 43.9394	10	0 0 18.097	46 28 0.57	4	9115	3683 S 4	WC	8532
10 29	C 56 51.4716	1	21 27 3.825	75 11 1.74	4	9004	16081 S 8	WI	8525
10 29	C 56 51.9412	10	23 58 56.662	46 59 33.00	4	9115	3683 S 5	WC	8533
10 29	C 56 55.4718	1	21 20 48.536	75 23 43.88	4	9004	16081 S 9	WI	8526
10 29	C 56 55.9425	10	23 57 33.018	47 31 5.13	4	9115	3683 S 6	WC	8534
10 29	C 57 7.4716	1	21 14 25.265	75 35 38.54	4	9004	16081 S10	WC	8527
10 29	C 57 7.9441	10	23 56 7.392	48 2 34.11	4	9115	3683 S 7	WC	8535
10 29	C 57 15.4715	1	21 7 53.768	75 46 47.70	4	9004	16081 S11	WC	8528
10 29	C 57 15.9461	10	23 54 39.409	48 33 58.79	4	9115	3683 S 8	WC	8536
10 29	C 57 23.4717	1	21 1 13.711	75 57 12.25	4	9004	16081 S12	WC	8529
10 29	C 59 35.4727	10	18 59 44.562	76 49 20.04	4	9004	16082 S 4	WC	9093
10 29	C 59 47.4728	1	18 52 53.831	76 45 21.26	4	9004	16082 S 5	EM	9094
10 29	C 59 47.9777	10	23 18 3.916	58 8 51.86	4	9115	3684 S 3	JW	9100
10 29	C 59 55.4729	1	18 46 9.532	76 40 44.44	4	9004	16082 S 6	KA	9095
10 29	C 59 55.9800	10	23 15 34.244	58 37 18.95	4	9115	3684 S 4	JW	9101
10 29	1 0 3.4729	1	18 39 31.477	76 35 22.22	4	9004	16082 S 7	KA	9096
10 29	1 0 11.9835	10	23 10 19.256	59 33 36.99	4	9115	3684 S 6	JW	9102
10 29	1 0 19.4728	1	18 26 41.192	76 22 52.66	4	9004	16082 S 9	KA	9097
10 29	1 0 19.9849	10	23 7 35.862	60 1 14.92	4	9115	3684 S 7	JW	367
10 29	1 0 27.4729	1	18 20 28.272	76 15 41.91	4	9004	16082 S10	KA	9098
10 29	1 0 27.9862	10	23 4 46.315	60 28 41.83	4	9115	3684 S 8	JW	9103
10 29	1 0 35.4729	1	18 14 24.358	76 7 57.85	4	9004	16082 S11	KA	9099
10 29	1 0 35.9875	10	23 1 52.218	60 55 53.71	4	9115	3684 S 9	JW	368
10 29	1 0 43.9903	10	22 58 53.390	61 22 38.85	4	9115	3684 S10	JW	9104
10 29	20 28 55.9891	1	21 57 19.286	55 11 51.86	4	9006	14503 S 2	AC	7233
10 29	20 29 3.4304	1	23 14 0.684	77 58 22.72	4	9008	20383 S 3	WC	7240
10 29	20 29 7.3894	1	21 55 20.258	55 28 55.07	4	9006	14503 S 3	AC	7234
10 29	20 29 11.4308	1	23 8 38.360	78 19 26.48	4	9008	20383 S 4	WC	7241
10 29	20 29 15.3895	1	21 53 19.681	55 45 43.30	4	9006	14503 S 4	RD	7235
10 29	20 29 19.4306	1	23 3 0.240	78 39 51.12	4	9008	20383 S 5	WC	7242
10 29	20 29 23.3897	1	21 51 16.963	56 2 13.51	4	9006	14503 S 5	RD	7236
10 29	20 29 27.4310	1	22 57 1.314	78 59 48.79	4	9008	20383 S 6	WC	7243
10 29	20 29 31.3894	1	21 49 13.021	56 18 33.99	4	9006	14503 S 6	RD	7237
10 29	20 29 35.4309	1	22 50 45.340	79 19 3.03	4	9008	20383 S 7	WC	7244
10 29	20 29 39.3897	1	21 47 7.409	56 34 38.82	4	9006	14503 S 7	RD	7238
10 29	20 29 43.4307	1	22 44 6.672	79 37 46.56	4	9008	20383 S 8	WC	7245
10 29	20 29 47.3898	1	21 45 0.055	56 50 27.90	4	9006	14503 S 8	WC	7239
10 29	20 29 51.4311	1	22 37 8.629	79 55 43.78	4	9008	20383 S 9	WC	7246
10 29	20 31 23.3929	1	21 17 27.859	59 40 47.58	4	9006	14504 S 2	JV	7362
10 29	20 31 27.4327	1	20 42 42.805	82 23 37.55	4	9008	20384 S 4	DK	7369
10 29	20 31 31.3933	1	21 14 59.442	59 53 15.75	4	9006	14504 S 3	JV	7363
10 29	20 31 35.4327	1	20 30 56.705	82 28 54.93	4	9008	20384 S 5	DK	7370
10 29	20 31 43.4327	1	20 18 59.004	82 32 58.21	4	9008	20384 S 6	DK	7371

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 29	20 31 51.4332	1	20 6 58.634	82 35 45.49	4	9008	20384 S 7	DK	7372
10 29	20 31 55.3933	1	21 7 26.921	60 29 3.94	4	9006	14504 S 6	JV	7364
10 29	20 31 59.4332	1	19 54 50.957	82 37 18.17	4	9008	20384 S 8	EM	7373
10 29	20 32 3.3934	1	21 4 52.528	60 40 26.03	4	9006	14504 S 7	DK	7365
10 29	20 32 7.4333	1	19 42 48.204	82 37 35.76	4	9008	20384 S 9	EM	7374
10 29	20 32 11.3931	1	21 2 16.884	60 51 33.49	4	9006	14504 S 8	DK	7366
10 29	20 32 15.4334	1	19 30 49.552	82 36 42.40	4	9008	20384 S 10	EM	7375
10 29	20 32 19.3930	1	20 59 39.974	61 2 19.27	4	9006	14504 S 9	DK	7367
10 29	20 32 27.3932	1	20 57 2.013	61 12 52.43	4	9006	14504 S 10	DK	7368
10 29	23 17 39.4877	1	4 30 31.576	74 23 58.54	4	9004	16104 S 3	WC	8439
10 29	23 17 47.4877	1	4 34 38.026	74 50 20.31	4	9004	16104 S 4	WC	8440
10 29	23 17 54.4717	10	1 26 41.036	45 56 29.04	4	9115	3725 S 1	HP	8445
10 29	23 17 55.4878	1	4 38 57.161	75 16 6.67	4	9004	16104 S 5	HP	8441
10 29	23 18 2.4733	10	1 26 16.952	46 35 16.36	4	9115	3725 S 2	KA	8446
10 29	23 18 3.4878	1	4 43 30.816	75 41 25.97	4	9004	16104 S 6	HP	8442
10 29	23 18 10.4751	10	1 25 52.064	47 14 6.38	4	9115	3725 S 3	KA	8447
10 29	23 18 11.488C	1	4 48 18.242	76 6 16.37	4	9004	16104 S 7	HP	8698
10 29	23 18 18.4762	10	1 25 26.333	47 52 59.56	4	9115	3725 S 4	KA	8448
10 29	23 18 19.4882	1	4 53 21.555	76 30 30.32	4	9004	16104 S 8	HP	8443
10 29	23 18 27.4882	1	4 58 40.218	76 54 14.13	4	9004	16104 S 9	HP	8444
10 30	2 7 35.2940	10	23 42 38.022	38 43 42.07	4	9115	3734 S 1	WC	9033
10 30	2 7 43.296C	10	23 41 29.576	39 9 44.26	4	9115	3734 S 2	WC	9034
10 30	2 7 51.2977	10	23 40 19.987	39 35 38.44	4	9115	3734 S 3	WC	9035
10 30	2 7 59.2988	10	23 39 9.170	40 1 37.21	4	9115	3734 S 4	WC	9036
10 30	2 8 7.3C1C	10	23 37 56.679	40 27 31.89	4	9115	3734 S 5	WC	9037
10 30	2 8 11.3899	1	21 24 25.828	60 20 16.31	4	9004	16111 S 5	WC	9027
10 30	2 8 15.3023	10	23 36 43.039	40 53 26.92	4	9115	3734 S 6	WC	9396
10 30	2 8 19.39CC	1	21 21 37.771	60 34 9.84	4	9004	16111 S 6	WC	9028
10 30	2 8 27.3899	1	21 18 47.917	60 47 42.42	4	9004	16111 S 7	WC	9029
10 30	2 8 35.3899	1	21 15 55.783	61 0 56.47	4	9004	16111 S 8	WC	9030
10 30	2 8 43.3896	1	21 13 2.105	61 13 49.93	4	9004	16111 S 9	WC	9031
10 30	2 8 51.3898	1	21 10 6.380	61 26 22.91	4	9004	16111 S 10	WC	9032
10 30	2 10 47.334C	10	23 8 13.1C2	48 54 23.02	4	9115	3735 S 5	WC	9022
10 30	2 10 55.3357	10	23 6 23.989	49 18 45.52	4	9115	3735 S 6	WC	9023
10 30	2 11 3.3373	10	23 4 32.433	49 43 4.95	4	9115	3735 S 7	WC	9024
10 30	2 11 7.3866	1	20 16 4.984	64 5 22.25	4	9004	16112 S 3	JW	9015
10 30	2 11 11.3391	10	23 2 38.556	50 7 13.27	4	9115	3735 S 8	LR	9025
10 30	2 11 15.3865	1	20 12 42.935	64 11 25.31	4	9004	16112 S 4	JW	9016
10 30	2 11 19.342C	10	23 0 42.497	50 31 14.96	4	9115	3735 S 9	LR	9026
10 30	2 11 23.3867	1	20 9 20.614	64 17 3.5C	4	9004	16112 S 5	JW	9017
10 30	2 11 31.3865	1	20 5 56.920	64 22 21.91	4	9004	16112 S 6	JW	9018
10 30	2 11 39.3867	1	20 2 33.201	64 27 21.94	4	9004	16112 S 7	JW	9019
10 30	2 11 47.3865	1	19 59 9.054	64 31 58.49	4	9004	16112 S 8	JW	9020
10 30	2 11 55.3867	1	19 55 44.296	64 36 8.70	4	9004	16112 S 9	JW	9021
10 30	2 13 11.3605	10	22 29 1.6C4	55 48 17.99	4	9115	3736 S 3	EM	8777

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 30	2 13 19.3624	10	22 26 23.875	56 9 18.52	4	9115	3736 S 4	EM	8778
10 30	2 13 27.3640	10	22 23 43.040	56 30 4.62	4	9115	3736 S 5	EM	8779
10 30	2 13 35.3652	10	22 20 59.097	56 50 28.88	4	9115	3736 S 6	EM	8780
10 30	2 13 39.3884	1	19 11 32.017	64 58 8.33	4	9004	16113 S 3	EM	8770
10 30	2 13 47.3883	1	19 8 12.402	64 57 24.47	4	9004	16113 S 4	EM	8771
10 30	2 13 51.3698	10	22 15 21.606	57 30 26.69	4	9115	3736 S 8	EM	8781
10 30	2 14 3.3884	1	19 1 35.632	64 54 57.12	4	9004	16113 S 6	EM	8772
10 30	2 14 11.3885	1	18 58 19.255	64 53 20.56	4	9004	16113 S 7	EM	8773
10 30	2 14 19.3884	1	18 55 3.550	64 51 17.69	4	9004	16113 S 8	EM	8774
10 30	2 14 27.3885	1	18 51 49.206	64 48 57.96	4	9004	16113 S 9	EM	8775
10 30	2 14 35.3884	1	18 48 36.630	64 46 22.04	4	9004	16113 S10	EM	8776
10 30	18 52 15.4006	1	22 25 48.263	75 38 9.24	4	9006	14529 S 5	FN	7115
10 30	18 52 27.4004	1	22 30 35.349	75 55 34.50	4	9006	14529 S 6	FN	7116
10 30	18 52 27.4071	1	5 59 11.495	71 51 59.60	4	9008	20406 S 5	AC	7120
10 30	18 52 35.4005	1	22 15 10.882	76 12 29.50	4	9006	14529 S 7	FN	7117
10 30	18 52 35.4072	1	6 3 35.762	72 9 18.61	4	9008	20406 S 6	AC	7121
10 30	18 52 43.4005	1	22 9 35.085	76 28 48.45	4	9006	14529 S 8	AC	7118
10 30	18 52 43.4071	1	6 8 9.075	72 26 11.95	4	9008	20406 S 7	AC	7122
10 30	18 52 51.4008	1	22 3 48.730	76 44 29.21	4	9006	14529 S 9	AC	7119
10 30	18 52 51.4075	1	6 12 49.399	72 42 28.09	4	9008	20406 S 8	AC	7123
10 31	0 27 18.4453	10	0 34 17.540	34 42 25.53	4	9115	3768 S 1	TA	8323
10 31	0 27 26.4464	10	0 33 33.016	35 15 3.98	4	9115	3768 S 2	TA	8699
10 31	0 27 34.4487	10	0 32 47.315	35 47 44.35	4	9115	3768 S 3	TA	8324
10 31	0 27 39.2511	1	23 46 2.934	70 47 29.92	4	9004	16137 S 4	DK	8316
10 31	0 27 42.4504	10	0 32 0.525	36 20 30.94	4	9115	3768 S 4	TA	8325
10 31	0 27 47.2513	1	23 42 57.825	71 15 5.99	4	9004	16137 S 5	DK	8317
10 31	0 27 50.4521	10	0 31 12.889	36 53 18.24	4	9115	3768 S 5	TA	8326
10 31	0 27 55.2513	1	23 39 44.867	71 42 13.97	4	9004	16137 S 6	DK	8318
10 31	0 27 58.4538	10	0 30 24.287	37 26 9.14	4	9115	3768 S 6	TA	8327
10 31	0 28 3.2510	1	23 36 23.853	72 9 3.24	4	9004	16137 S 7	DK	8319
10 31	0 28 6.4555	10	0 29 34.382	37 59 4.15	4	9115	3768 S 7	TA	8328
10 31	0 28 11.2513	1	23 32 52.766	72 35 25.39	4	9004	16137 S 8	DK	8320
10 31	0 28 19.2510	1	23 29 13.322	73 1 25.23	4	9004	16137 S 9	DK	8321
10 31	0 28 27.2514	1	23 25 23.368	73 26 58.02	4	9004	16137 S10	DK	8322
10 31	0 32 3.2534	1	20 8 48.337	80 41 21.85	4	9004	16138 S 5	LR	8802
10 31	0 32 11.2533	1	19 58 19.032	80 43 49.27	4	9004	16138 S 6	LR	8803
10 31	0 32 19.2532	1	19 47 48.737	80 45 2.25	4	9004	16138 S 7	LR	8804
10 31	0 32 22.5030	10	23 48 36.055	55 30 11.00	4	9115	3769 S 4	JV	9398
10 31	0 32 27.2536	1	19 37 20.701	80 45 8.30	4	9004	16138 S 8	LR	8805
10 31	0 32 30.5043	10	23 46 39.224	56 1 52.91	4	9115	3769 S 5	DK	8809
10 31	0 32 35.2535	1	19 26 58.311	80 44 3.27	4	9004	16138 S 9	JV	8806
10 31	0 32 38.5063	10	23 44 39.870	56 33 22.70	4	9115	3769 S 6	DK	8810
10 31	0 32 43.2534	1	19 16 42.246	80 41 49.93	4	9004	16138 S10	JV	8807
10 31	0 32 46.5080	10	23 42 34.573	57 4 50.19	4	9115	3769 S 7	DK	8811
10 31	0 32 51.2533	1	19 6 37.126	80 38 35.30	4	9004	16138 S11	JV	9397

Satellite 1963 30D

31 October 1964

DATE Y M D	TIME (A-I) F M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 10 31	C 32 54.5092	10	23 40 27.504	57 35 56.05	4	9115	3769 S 8	DK	8812
10 31	C 33 2.5104	10	23 38 15.090	58 7 3.99	4	9115	3769 S 9	DK	8813
10 31	C 33 10.5122	10	23 35 59.608	58 37 49.06	4	9115	3769 S10	DK	8814
10 31	17 14 27.3990	1	5 51 26.152	50 52 26.68	4	9008	20431 S 3	SS	7383
10 31	17 14 35.3990	1	5 53 16.211	51 11 16.25	4	9008	20431 S 4	AC	7384
10 31	17 14 43.3988	1	5 55 7.569	51 29 52.68	4	9008	20431 S 5	AC	7385
10 31	17 14 51.3989	1	5 57 0.448	51 48 15.60	4	9008	20431 S 6	AC	7386
10 31	17 14 59.3987	1	5 58 54.759	52 6 30.76	4	9008	20431 S 7	AC	7387
10 31	17 15 7.3990	1	6 0 50.973	52 24 28.87	4	9008	20431 S 8	AC	7388
10 31	17 15 15.3988	1	6 2 48.980	52 42 16.54	4	9008	20431 S 9	AC	7389
10 31	17 15 15.4049	1	5 36 37.830	74 52 52.11	4	9006	14551 S 1	NG	7376
10 31	17 15 23.4043	1	5 41 37.843	75 11 37.76	4	9006	14551 S 2	NG	7377
10 31	17 15 31.4063	1	5 46 47.976	75 29 45.57	4	9006	14551 S 3	NG	7378
10 31	17 15 39.4050	1	5 52 8.595	75 47 18.56	4	9006	14551 S 4	NG	7379
10 31	17 15 47.4052	1	5 57 41.951	76 4 21.07	4	9006	14551 S 5	SS	7380
10 31	17 15 55.4055	1	6 3 26.197	76 20 38.60	4	9006	14551 S 6	SS	7381
10 31	17 16 3.4057	1	6 9 22.696	76 36 23.04	4	9006	14551 S 7	SS	7382
10 31	17 18 35.4058	1	7 0 24.755	58 47 42.40	4	9006	20432 S 3	AC	7493
10 31	17 18 43.4059	1	7 3 3.104	58 58 51.72	4	9008	20432 S 4	AC	7494
10 31	17 18 51.4060	1	7 5 42.785	59 9 40.69	4	9008	20432 S 5	AC	7495
10 31	17 18 51.4097	1	8 48 43.503	79 6 53.83	4	9006	14552 S 3	LR	7486
10 31	17 18 59.4061	1	7 8 23.368	59 20 13.75	4	9008	20432 S 6	AC	7496
10 31	17 18 59.4102	1	8 56 45.156	79 4 49.04	4	9006	14552 S 4	HP	7487
10 31	17 19 7.4060	1	7 11 5.166	59 30 29.75	4	9008	20432 S 7	JV	7497
10 31	17 19 7.4104	1	9 4 40.965	79 1 53.18	4	9006	14552 S 5	HP	7488
10 31	17 19 15.4059	1	7 13 48.894	59 40 27.04	4	9008	20432 S 8	JV	7498
10 31	17 19 15.4104	1	9 12 29.000	78 58 14.47	4	9006	14552 S 6	AC	7489
10 31	17 19 23.4062	1	7 16 33.502	59 50 9.65	4	9008	20432 S 9	JV	7499
10 31	17 19 23.4106	1	9 20 9.287	78 53 52.44	4	9006	14552 S 7	AC	7490
10 31	17 19 31.4106	1	9 27 39.666	78 48 44.10	4	9006	14552 S 8	AC	7491
10 31	17 19 39.4178	1	9 35 0.538	78 42 56.67	4	9006	14552 S 9	AC	7492
10 31	20 3 15.4079	1	0 25 46.835	81 42 42.52	4	9008	20439 S 2	LR	7145
10 31	20 3 23.4080	1	0 20 51.138	82 7 0.27	4	9008	20439 S 3	LR	7146
10 31	20 3 31.4079	1	0 15 25.850	82 30 53.80	4	9008	20439 S 4	LR	7147
10 31	20 3 39.4080	1	0 9 24.880	82 54 21.31	4	9008	20439 S 5	LR	7148
10 31	20 3 47.4083	1	0 2 47.798	83 17 20.26	4	9008	20439 S 6	LR	7149
10 31	20 3 55.3933	1	21 36 47.069	60 41 4.33	4	9006	14557 S 5	HP	7138
10 31	20 3 58.4083	1	23 55 24.325	83 39 53.16	4	9008	20439 S 7	LR	7150
10 31	20 4 3.3934	1	21 34 14.385	60 55 50.34	4	9006	14557 S 6	HP	7139
10 31	20 4 3.4085	1	23 47 8.360	84 1 44.20	4	9008	20439 S 8	LR	7151
10 31	20 4 11.3936	1	21 31 40.330	61 10 15.16	4	9006	14557 S 7	HP	7140
10 31	20 4 19.3935	1	21 29 4.116	61 24 24.50	4	9006	14557 S 8	KA	7141
10 31	20 4 27.3936	1	21 26 26.000	61 38 14.01	4	9006	14557 S 9	KA	7142
10 31	20 4 35.3936	1	21 23 45.502	61 51 49.04	4	9006	14557 S10	KA	7143
10 31	20 4 43.3935	1	21 21 3.075	62 5 4.15	4	9006	14557 S11	KA	7144

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 11 2	16 48 25.4597	1	22 28 24.294	45 19 49.39	4	9005	11276 S 4	KA	7923
11 2	16 48 28.0043	1	5 49 13.390	48 31 38.04	4	9008	20457 S 5	KA	7934
11 2	16 48 36.0044	1	5 50 53.967	48 49 47.87	4	9008	20457 S 6	KA	7935
11 2	16 48 41.4601	1	22 25 32.919	45 59 19.48	4	9005	11276 S 5	KA	7924
11 2	16 48 44.0043	1	5 52 36.170	49 7 53.00	4	9008	20457 S 7	KA	7936
11 2	16 48 51.4017	1	5 48 5.122	70 16 26.27	4	9006	14604 S 2	KA	7930
11 2	16 48 52.0045	1	5 54 19.681	49 25 46.23	4	9008	20457 S 8	KA	7937
11 2	16 48 57.4601	1	22 22 37.164	46 38 11.02	4	9005	11276 S 6	KA	7925
11 2	16 48 59.4019	1	5 52 0.413	70 35 2.63	4	9006	14604 S 3	KA	8713
11 2	16 49 0.0046	1	5 56 4.163	49 43 26.22	4	9008	20457 S 9	KA	7938
11 2	16 49 7.4024	1	5 56 1.462	70 53 7.75	4	9006	14604 S 4	KA	7932
11 2	16 49 8.0047	1	5 57 50.146	50 0 56.28	4	9008	20457 S10	KA	7939
11 2	16 49 15.4027	1	6 0 8.828	71 10 47.14	4	9006	14604 S 5	KA	7933
11 2	16 49 16.0049	1	5 59 37.511	50 18 13.67	4	9008	20457 S11	KA	7940
11 2	16 49 29.4594	1	22 16 31.323	47 54 1.55	4	9005	11276 S 8	KA	7926
11 2	16 49 45.4595	1	22 13 20.620	48 30 58.21	4	9005	11276 S 9	KA	8712
11 2	16 50 17.4584	1	22 6 44.875	49 42 51.08	4	9005	11276 S11	KA	7928
11 2	16 50 33.4574	1	22 3 19.046	50 17 36.34	4	9005	11276 S12	KA	7929
11 7	15 54 51.3924	1	22 1 0.045	54 15 19.51	4	9006	14692 S 7	SW	8708
11 7	15 54 51.7267	1	23 15 55.952	76 20 7.95	4	9008	20561 S 9	JM	7832
11 7	15 54 59.3927	1	21 59 8.098	54 32 27.87	4	9006	14692 S 8	SW	7827
11 7	15 54 59.7269	1	23 11 24.379	76 41 35.01	4	9008	20561 S10	JM	7833
11 7	15 55 7.3929	1	21 57 14.830	54 49 24.60	4	9006	14692 S 9	SW	7828
11 7	15 55 7.7270	1	23 6 39.433	77 2 32.40	4	9008	20561 S11	JM	7834
11 7	15 55 15.3929	1	21 55 19.848	55 6 8.00	4	9006	14692 S10	SW	7829
11 7	15 55 15.7273	1	23 1 40.185	77 22 58.43	4	9008	20561 S12	JM	7835
11 7	15 55 23.3929	1	21 53 23.289	55 22 36.87	4	9006	14692 S11	SW	7830
11 7	15 55 31.3934	1	21 51 25.540	55 38 54.48	4	9006	14692 S12	SW	7831
11 8	21 6 20.0864	1	21 48 50.160	61 42 55.91	4	9008	20580 S 4	AC	7877
11 8	21 6 27.4005	1	5 40 16.117	55 38 26.47	4	9004	16239 S 6	WC	7870
11 8	21 6 28.0864	1	21 46 14.741	61 58 50.80	4	9008	20580 S 5	AC	7878
11 8	21 6 35.4001	1	5 42 34.696	55 59 21.00	4	9004	16239 S 7	WC	7871
11 8	21 6 36.0865	1	21 43 37.061	62 14 32.64	4	9008	20580 S 6	AC	8702
11 8	21 6 43.4000	1	5 44 55.018	56 19 57.68	4	9004	16239 S 8	WC	7872
11 8	21 6 44.0866	1	21 40 57.212	62 29 55.71	4	9008	20580 S 7	AC	7880
11 8	21 6 51.4002	1	5 47 17.781	56 40 20.17	4	9004	16239 S 9	WC	7873
11 8	21 6 52.0871	1	21 38 14.510	62 44 55.78	4	9008	20580 S 8	AC	8703
11 8	21 6 56.4001	1	5 49 43.134	57 0 24.99	4	9004	16239 S10	HP	7874
11 8	21 7 0.0868	1	21 35 30.027	62 59 38.68	4	9008	20580 S 9	AC	8704
11 8	21 7 7.4003	1	5 52 11.030	57 20 12.17	4	9004	16239 S11	HP	7875
11 8	21 7 8.0869	1	21 32 43.037	63 14 6.34	4	9008	20580 S10	AC	8705
11 8	21 7 15.4003	1	5 54 41.427	57 39 42.34	4	9004	16239 S12	HP	7876
11 8	21 9 24.0972	1	20 39 50.792	66 28 37.08	4	9008	20581 S 4	WI	8068
11 8	21 9 32.0978	1	20 36 26.007	66 36 55.32	4	9008	20581 S 5	WI	8069
11 8	21 9 38.4039	1	6 47 3.163	62 33 54.27	4	9004	16240 S 3	EM	8061

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 11 8	21 9 40.0979	1	20 33 0.602	66 44 51.18	9008	20581 S 6	WI	8070
11 8	21 9 47.4037	1	6 50 21.617	62 46 46.85	9004	16240 S 4	EM	8062
11 8	21 9 48.0979	1	20 29 33.532	66 52 26.54	9008	20581 S 7	WI	8071
11 8	21 9 55.4034	1	6 53 42.408	62 59 18.88	9004	16240 S 5	EM	8063
11 8	21 9 56.0981	1	20 26 5.334	66 59 38.04	9008	20581 S 8	WI	8072
11 8	21 10 3.4036	1	6 57 5.107	63 11 24.03	9004	16240 S 6	EM	8064
11 8	21 10 4.0983	1	20 22 36.138	67 6 30.22	9008	20581 S 9	WI	8073
11 8	21 10 11.4032	1	7 0 30.188	63 23 7.97	9004	16240 S 7	EM	8065
11 8	21 10 19.4033	1	7 3 57.949	63 34 22.41	9004	16240 S 8	EM	8066
11 8	21 10 27.4035	1	7 7 27.142	63 45 14.79	9004	16240 S 9	EM	8067
11 9	22 16 35.8215	1	22 8 34.705	47 46 23.74	9008	20601 S 5	NG	142
11 9	22 16 36.0216	10	1 40 58.372	41 22 3.29	9115	3902 S 2	DK	149
11 9	22 16 43.8216	1	22 7 9.713	48 3 5.01	9008	20601 S 6	FI	143
11 9	22 16 44.0230	10	1 40 48.589	41 59 35.20	9115	3902 S 3	DK	150
11 9	22 16 51.8216	1	22 5 43.871	48 19 33.92	9008	20601 S 7	FI	144
11 9	22 16 52.0247	10	1 40 38.792	42 37 11.68	9115	3902 S 4	DK	151
11 9	22 16 59.8216	1	22 4 16.630	48 35 53.56	9008	20601 S 8	FI	145
11 9	22 17 0.0262	10	1 40 28.788	43 14 48.33	9115	3902 S 5	DK	152
11 9	22 17 7.8216	1	22 2 48.445	48 52 5.08	9008	20601 S 9	FI	146
11 9	22 17 8.0276	10	1 40 18.343	43 52 36.17	9115	3902 S 6	DK	153
11 9	22 17 15.8219	1	22 1 19.411	49 8 7.96	9008	20601 S10	FI	818
11 9	22 17 16.0287	10	1 40 7.636	44 30 29.76	9115	3902 S 7	DK	154
11 9	22 17 23.8220	1	21 59 49.066	49 24 3.15	9008	20601 S11	FI	148
11 9	22 17 24.0303	10	1 39 56.884	45 8 20.89	9115	3902 S 8	DK	155
11 10	15 3 31.4053	1	5 53 8.083	54 49 5.45	9006	14751 S 5	EM	7890
11 10	15 3 35.7921	1	22 31 53.347	58 14 26.65	9005	11326 S 2	RD	7884
11 10	15 3 39.4052	1	5 55 11.857	55 7 26.78	9006	14751 S 6	EM	7891
11 10	15 3 47.4052	1	5 57 17.849	55 25 36.36	9006	14751 S 7	EM	7892
11 10	15 3 51.7928	1	22 27 18.632	58 57 38.80	9005	11326 S 3	RD	7885
11 10	15 3 55.4056	1	5 59 25.489	55 43 28.57	9006	14751 S 8	EM	7893
11 10	15 4 3.4052	1	6 1 35.263	56 1 3.72	9006	14751 S 9	EM	7894
11 10	15 4 7.7933	1	22 22 33.793	59 39 42.37	9005	11326 S 4	EM	7886
11 10	15 4 11.4057	1	6 3 46.489	56 18 27.58	9006	14751 S10	EM	7895
11 10	15 4 19.4060	1	6 5 59.810	56 35 36.85	9006	14751 S11	EM	7896
11 10	15 4 23.7937	1	22 17 38.401	60 20 32.79	9005	11326 S 5	RD	7887
11 10	15 4 39.7937	1	22 12 31.339	61 0 11.46	9005	11326 S 6	EM	7888
11 10	15 4 55.7937	1	22 7 12.879	61 38 33.68	9005	11326 S 7	EM	8706
11 10	15 5 11.7941	1	22 1 42.924	62 15 39.56	9005	11326 S 8	EM	7889
11 12	20 12 51.3855	1	5 24 52.949	47 7 9.35	9004	16274 S 5	WI	117
11 12	20 12 51.6177	1	22 19 1.759	67 35 9.68	9008	20671 S 3	JW	124
11 12	20 12 59.3854	1	5 26 32.590	47 28 15.09	9004	16274 S 6	WI	118
11 12	20 12 59.6179	1	22 15 49.674	67 53 33.19	9008	20671 S 4	DK	125
11 12	20 13 7.3851	1	5 28 14.275	47 49 13.45	9004	16274 S 7	WI	119
11 12	20 13 7.6189	1	22 12 32.962	68 11 32.49	9008	20671 S 5	DK	126
11 12	20 13 15.3851	1	5 29 57.352	48 9 56.03	9004	16274 S 8	WI	120

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 11 12	20 13 15.6185	1	22 9 12.054	68 29 12.65	9008	20671 S 6	DK	127
11 12	20 13 23.3851	1	5 31 41.544	48 30 33.28	9004	16274 S 9	JW	121
11 12	20 13 23.6188	1	22 5 47.122	68 46 28.86	9008	20671 S 7	DK	128
11 12	20 13 31.3848	1	5 33 27.649	48 50 59.62	9004	16274 S1C	JW	122
11 12	20 13 31.6189	1	22 2 17.457	69 3 22.05	9008	20671 S 8	DK	129
11 12	20 13 39.3849	1	5 35 15.340	49 11 11.44	9004	16274 S11	JW	123
11 12	20 13 47.6197	1	21 55 3.410	69 35 53.98	9008	20671 S10	DK	130
11 13	15 48 3.4922	1	22 24 0.138	48 17 50.85	9005	11346 S 3	FN	7634
11 13	15 48 11.4924	1	5 48 6.172	66 49 37.31	9006	14823 S 7	SD	7637
11 13	15 48 19.4921	1	5 51 22.715	67 8 2.17	9006	14823 S 8	JV	7638
11 13	15 48 19.4933	1	22 20 52.515	48 56 55.92	9005	11346 S 4	FN	8717
11 13	15 48 27.4924	1	5 54 42.966	67 26 4.70	9006	14823 S 9	JV	8719
11 13	15 48 35.4923	1	5 58 7.559	67 43 44.88	9006	14823 S10	JV	7640
11 13	15 48 35.4934	1	22 17 39.130	49 35 21.73	9005	11346 S 5	FN	7639
11 13	15 48 43.4927	1	6 1 37.572	68 1 1.18	9006	14823 S11	JV	7641
11 13	15 48 51.4930	1	6 5 13.926	68 17 49.50	9006	14823 S12	JV	7642
11 13	15 48 51.4938	1	22 14 20.586	50 13 10.06	9005	11346 S 6	SD	8718
11 13	15 49 7.4931	1	6 12 32.011	68 50 20.82	9006	14823 S14	JV	7643
11 13	15 49 7.4938	1	22 10 56.191	50 50 9.51	9005	11346 S 7	SD	7635
11 13	15 49 23.4941	1	22 7 26.481	51 26 26.44	9005	11346 S 8	SD	7636
11 13	21 23 31.4023	1	5 4 44.405	60 17 17.04	9004	16305 S 7	DK	7849
11 13	21 23 31.7150	1	22 5 36.834	52 35 52.30	9008	20696 S 7	SS	7855
11 13	21 23 39.4020	1	5 7 10.895	60 42 3.72	9004	16305 S 8	DK	7850
11 13	21 23 39.7151	1	22 3 53.495	52 53 16.39	9008	20696 S 8	SS	7856
11 13	21 23 47.4019	1	5 9 40.855	61 6 28.45	9004	16305 S 9	DK	7851
11 13	21 23 47.7152	1	22 2 8.650	53 10 33.62	9008	20696 S 9	SS	7857
11 13	21 23 55.4022	1	5 12 14.304	61 30 37.69	9004	16305 S10	DK	7852
11 13	21 23 55.7154	1	22 0 22.489	53 27 34.84	9008	20696 S10	SS	7858
11 13	21 24 3.4020	1	5 14 52.098	61 54 29.39	9004	16305 S11	DK	7853
11 13	21 24 11.4019	1	5 17 33.420	62 18 1.92	9004	16305 S12	DK	7854
11 14	19 46 19.4565	1	22 43 4.342	71 6 32.95	9008	20719 S 6	HP	7916
11 14	19 46 19.6473	1	22 7 49.747	50 12 18.69	9006	14848 S 4	LR	7909
11 14	19 46 27.4565	1	22 39 28.310	71 26 21.10	9008	20719 S 7	HP	7917
11 14	19 46 27.6473	1	22 6 16.414	50 29 30.53	9006	14848 S 5	LR	7910
11 14	19 46 35.4567	1	22 35 45.697	71 45 50.98	9008	20719 S 8	HP	7918
11 14	19 46 35.6472	1	22 4 41.959	50 46 31.34	9006	14848 S 6	LR	7911
11 14	19 46 43.4569	1	22 31 56.618	72 4 59.51	9008	20719 S 9	HP	7919
11 14	19 46 43.6472	1	22 3 6.672	51 3 25.48	9006	14848 S 7	LR	7912
11 14	19 46 51.4573	1	22 28 0.851	72 23 39.32	9008	20719 S10	HP	7920
11 14	19 46 51.6478	1	22 1 30.196	51 20 6.89	9006	14848 S 8	LR	7913
11 14	19 46 59.4571	1	22 23 57.829	72 41 51.19	9008	20719 S11	HP	7921
11 14	19 46 59.6482	1	21 59 52.290	51 36 40.34	9006	14848 S 9	LR	7914
11 14	19 47 7.4575	1	22 19 47.507	72 59 37.48	9008	20719 S12	KA	7922
11 14	19 47 7.6481	1	21 58 13.209	51 53 0.13	9006	14848 S10	HP	7915
11 22	3 28 26.8004	1	23 56 8.412	-41 43 40.32	9009	14610 S 2	HP	427

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.-NO.
1964 11 22	3 28 27.7717	1	0 11 25.026	9 38 8.83	4	9011	17071 S 3	FI	434
11 22	3 28 34.8004	1	23 56 26.985	-41 15 55.56	4	9009	14610 S 3	HP	428
11 22	3 28 35.7717	1	0 11 38.801	10 7 32.07	4	9011	17071 S 4	FI	435
11 22	3 28 42.8006	1	23 56 44.407	-40 47 55.55	4	9009	14610 S 4	HP	429
11 22	3 28 43.7718	1	0 11 52.471	10 36 44.91	4	9011	17071 S 5	FI	436
11 22	3 28 50.8007	1	23 57 1.928	-40 19 50.07	4	9009	14610 S 5	FI	430
11 22	3 28 51.7718	1	0 12 5.470	11 5 45.44	4	9011	17071 S 6	FI	437
11 22	3 28 58.8009	1	23 57 18.913	-39 51 37.10	4	9009	14610 S 6	FI	431
11 22	3 28 59.7717	1	0 12 18.480	11 34 33.81	4	9011	17071 S 7	TA	438
11 22	3 29 6.8006	1	23 57 35.318	-39 23 11.14	4	9009	14610 S 7	FI	432
11 22	3 29 7.7717	1	0 12 30.863	12 3 9.61	4	9011	17071 S 8	TA	439
11 22	3 29 14.8008	1	23 57 51.327	-38 54 45.24	4	9009	14610 S 8	FI	433
11 22	3 29 15.7715	1	0 12 42.961	12 31 31.65	4	9011	17071 S 9	TA	440
11 23	1 55 31.5225	1	2 12 56.756	-29 31 44.28	4	9009	14626 S 5	JW	524
11 23	1 55 31.8257	1	1 47 56.286	27 34 48.73	4	9011	17101 S 5	FI	531
11 23	1 55 39.5225	1	2 12 46.260	-28 56 22.92	4	9009	14626 S 6	JW	525
11 23	1 55 39.8259	1	1 47 50.978	28 0 53.54	4	9011	17101 S 6	FI	532
11 23	1 55 47.5225	1	2 12 35.993	-28 20 47.34	4	9009	14626 S 7	JW	526
11 23	1 55 47.8256	1	1 47 45.772	28 26 41.77	4	9011	17101 S 7	FI	533
11 23	1 55 55.5228	1	2 12 25.842	-27 45 1.10	4	9009	14626 S 8	JW	527
11 23	1 55 55.8258	1	1 47 40.700	28 52 18.07	4	9011	17101 S 8	FI	534
11 23	1 56 3.5226	1	2 12 15.824	-27 9 3.55	4	9009	14626 S 9	FI	528
11 23	1 56 11.5227	1	2 12 5.595	-26 32 50.98	4	9009	14626 S 10	FI	529
11 23	1 56 11.8255	1	1 47 30.393	29 42 58.20	4	9011	17101 S 10	FI	535
11 23	1 56 19.5229	1	2 11 55.980	-25 56 24.87	4	9009	14626 S 11	FI	530
11 23	1 56 19.8256	1	1 47 25.284	30 7 58.10	4	9011	17101 S 11	EM	536
11 23	1 56 27.8256	1	1 47 20.235	30 32 51.63	4	9011	17101 S 12	EM	537
11 24	C 16 59.4200	1	3 56 54.430	4 21 43.63	4	9007	16026 S 2	HP	616
11 24	C 17 7.3970	1	3 55 35.222	-26 2 45.32	4	9009	14636 S 2	JW	623
11 24	C 17 7.4209	1	3 56 40.984	4 50 46.93	4	9007	16026 S 3	HP	617
11 24	C 17 7.8277	1	3 18 18.786	20 7 30.74	4	9011	17106 S 1	LR	517
11 24	C 17 15.3969	1	3 55 20.732	-25 36 7.17	4	9009	14636 S 3	JW	624
11 24	C 17 15.4209	1	3 56 27.886	5 19 47.11	4	9007	16026 S 4	HP	2072
11 24	C 17 15.8278	1	3 18 7.955	20 32 44.14	4	9011	17106 S 2	LR	518
11 24	C 17 23.3968	1	3 55 6.988	-25 9 17.37	4	9009	14636 S 4	HP	625
11 24	C 17 23.4202	1	3 56 15.177	5 48 43.25	4	9007	16026 S 5	HP	619
11 24	C 17 23.8274	1	3 17 56.948	20 57 49.95	4	9011	17106 S 3	LR	519
11 24	C 17 31.3967	1	3 54 53.401	-24 42 23.91	4	9009	14636 S 5	HP	626
11 24	C 17 31.8274	1	3 17 46.363	21 22 43.33	4	9011	17106 S 4	LR	520
11 24	C 17 39.3968	1	3 54 40.259	-24 15 24.05	4	9009	14636 S 6	HP	627
11 24	C 17 39.4204	1	3 55 50.742	6 46 23.26	4	9007	16026 S 7	HP	620
11 24	C 17 47.3970	1	3 54 27.525	-23 48 18.44	4	9009	14636 S 7	HP	628
11 24	C 17 47.4202	1	3 55 38.955	7 15 6.80	4	9007	16026 S 8	JW	621
11 24	C 17 47.8275	1	3 17 26.052	22 12 10.60	4	9011	17106 S 6	LR	521
11 24	C 17 55.3969	1	3 54 15.007	-23 21 2.84	4	9009	14636 S 8	HP	1743

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 24	C 17 55.4196	1	3 55 27.510	7 43 45.04	9007	16026 S 9	JW	622
11 24	C 17 55.8274	1	3 17 16.472	22 36 44.78	9011	17106 S 7 LR		522
11 24	C 18 11.8273	1	3 16 57.659	23 25 28.38	9011	17106 S 9 LR		523
11 25	1 24 59.1114	1	2 12 24.947	13 20 17.78	9011	17113 S 1 JW		7836
11 25	1 24 59.3423	1	2 47 26.989	-43 25 59.05	9009	14655 S 1 JW		8709
11 25	1 25 7.1114	1	2 12 14.479	13 52 47.57	9011	17113 S 2 JW		7837
11 25	1 25 7.3423	1	2 47 6.429	-42 57 21.76	9009	14655 S 2 JW		7843
11 25	1 25 15.1115	1	2 12 4.197	14 24 59.61	9011	17113 S 3 JW		7838
11 25	1 25 15.3423	1	2 46 46.104	-42 28 32.19	9009	14655 S 3 JW		7844
11 25	1 25 23.1114	1	2 11 54.309	14 57 0.27	9011	17113 S 4 JW		7839
11 25	1 25 23.3423	1	2 46 26.295	-41 59 34.33	9009	14655 S 4 JW		7845
11 25	1 25 31.1114	1	2 11 44.397	15 28 41.82	9011	17113 S 5 JW		7840
11 25	1 25 31.3421	1	2 46 6.760	-41 30 22.95	9009	14655 S 5 DK		7846
11 25	1 25 39.3421	1	2 45 47.460	-41 1 1.73	9009	14655 S 6 DK		7847
11 25	1 25 47.1113	1	2 11 25.197	16 31 21.61	9011	17113 S 7 JW		7841
11 25	1 25 47.3423	1	2 45 28.757	-40 31 27.40	9009	14655 S 7 DK		7848
11 25	1 28 35.1038	1	2 8 32.585	26 32 16.35	9011	17114 S 1 AC		1739
11 25	1 28 35.3509	1	2 40 2.121	-29 25 44.50	9009	14656 S 2 DK		510
11 25	1 28 43.1035	1	2 8 25.217	26 58 33.97	9011	17114 S 2 AC		1740
11 25	1 28 43.3510	1	2 39 49.210	-28 51 48.83	9009	14656 S 3 DK		511
11 25	1 28 51.1036	1	2 8 18.613	27 24 35.45	9011	17114 S 3 AC		2565
11 25	1 28 51.3517	1	2 39 36.961	-28 17 46.38	9009	14656 S 4 DK		512
11 25	1 28 59.1036	1	2 8 11.474	27 50 26.02	9011	17114 S 4 JW		1741
11 25	1 28 55.3507	1	2 39 24.635	-27 43 30.95	9009	14656 S 5 AC		513
11 25	1 29 7.1037	1	2 8 4.749	28 16 7.76	9011	17114 S 5 JW		1742
11 25	1 29 7.3506	1	2 39 12.771	-27 9 1.00	9009	14656 S 6 AC		514
11 25	1 29 15.3505	1	2 39 0.874	-26 34 21.32	9009	14656 S 7 AC		515
11 25	1 29 31.3504	1	2 38 38.050	-25 24 24.41	9009	14656 S 9 AC		516
11 25	7 30 51.2304	1	4 2 34.618	75 17 22.61	9012	15977 S 6 JW		8042
11 25	7 30 59.2306	1	4 5 21.824	75 39 28.31	9012	15977 S 7 JW		8043
11 25	7 31 7.2306	1	4 8 16.615	76 1 18.00	9012	15977 S 8 DK		8044
11 25	7 31 15.2306	1	4 11 19.222	76 22 38.12	9012	15977 S 9 DK		8045
11 25	7 31 19.3909	1	22 33 6.450	44 0 29.60	9001	18934 S 1 JW		8710
11 25	7 31 22.2309	1	4 14 32.347	76 44 2.30	9012	15977 S10 DK		8046
11 25	7 31 31.2308	1	4 17 54.006	77 4 54.81	9012	15977 S11 DK		8711
11 25	7 31 35.3903	1	22 30 38.094	44 39 49.15	9001	18934 S 2 JW		8038
11 25	7 31 39.2310	1	4 21 26.579	77 25 35.64	9012	15977 S12 DK		8048
11 25	7 31 51.3900	1	22 28 5.570	45 18 37.44	9001	18934 S 3 JW		8039
11 25	7 32 7.3897	1	22 25 29.071	45 56 52.76	9001	18934 S 4 JW		8040
11 25	7 32 23.3886	1	22 22 48.365	46 34 43.60	9001	18934 S 5 JW		8041
11 26	2 28 27.8417	1	0 46 1.533	23 10 38.34	9011	17146 S 2 EM		307
11 26	2 28 35.8417	1	0 46 3.884	23 36 40.63	9011	17146 S 3 EM		308
11 26	2 28 43.4271	1	1 2 21.815	9 18 7.55	9007	16080 S 1 FI		300
11 26	2 28 43.8416	1	0 46 5.995	24 2 34.28	9011	17146 S 4 EM		309
11 26	2 28 51.4268	1	1 2 20.304	9 56 52.96	9007	16080 S 2 FI		301

DATE Y M D	TIME (A-L) F M S	RMS MS	R.A.(1950.C) H M S	DECL.(1950.C) RMS D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 11 26	2 38 51.8417	1	0 46 7.997	24 28 11.57	9011	17146 S 5	EM	310
11 26	2 38 59.4272	1	1 2 18.619	10 35 15.88	9007	16080 S 3	FI	302
11 26	2 38 59.8417	1	0 46 10.091	24 53 38.30	9011	17146 S 6	EM	311
11 26	2 39 7.4264	1	1 2 17.296	11 13 23.83	9007	16080 S 4	FI	303
11 26	2 39 7.8415	1	0 46 11.590	25 18 52.03	9011	17146 S 7	EM	812
11 26	2 39 15.4260	1	1 2 15.310	11 51 20.72	9007	16080 S 5	FI	304
11 26	2 39 15.8416	1	0 46 13.038	25 44 2.50	9011	17146 S 8	EM	313
11 26	2 39 23.4268	1	1 2 13.109	12 28 55.21	9007	16080 S 6	FI	305
11 26	2 39 31.4264	1	1 2 10.987	13 6 17.96	9007	16080 S 7	FI	306
11 26	3 5 7.5488	1	1 10 48.030	70 53 39.95	9010	15859 S 2	EM	636
11 26	3 5 9.2036	1	3 22 24.451	30 5 31.27	9114	298 S 2	AC	640
11 26	3 5 11.3780	1	4 41 7.866	53 35 16.25	9001	18950 S 1	EM	629
11 26	3 5 17.2038	1	3 23 7.138	30 36 17.60	9114	298 S 3	AC	641
11 26	3 5 19.3778	1	4 42 47.538	54 1 33.47	9001	18950 S 2	EM	630
11 26	3 5 23.5494	1	1 8 43.176	71 49 41.39	9010	15859 S 3	EM	637
11 26	3 5 25.2043	1	3 23 50.809	31 7 21.55	9114	298 S 4	AC	642
11 26	3 5 27.3776	1	4 44 29.288	54 27 38.11	9001	18950 S 3	EM	631
11 26	3 5 33.2046	1	3 24 34.908	31 38 22.61	9114	298 S 5	AC	643
11 26	3 5 35.3779	1	4 46 13.229	54 53 32.56	9001	18950 S 4	EM	632
11 26	3 5 39.5499	1	1 6 27.364	72 44 55.13	9010	15859 S 4	EM	638
11 26	3 5 41.2051	1	3 25 20.104	32 9 23.41	9114	298 S 6	AC	644
11 26	3 5 43.3777	1	4 47 59.468	55 19 13.75	9001	18950 S 5	EM	633
11 26	3 5 49.2054	1	3 26 6.291	32 40 35.32	9114	298 S 7	AC	2566
11 26	3 5 51.3777	1	4 49 47.823	55 44 39.39	9001	18950 S 6	EM	634
11 26	3 5 55.5555	1	1 3 57.653	73 39 23.36	9010	15859 S 5	EM	639
11 26	3 5 57.2059	1	3 26 53.534	33 11 41.47	9114	298 S 8	WI	646
11 26	3 5 59.3778	1	4 51 38.727	56 9 56.14	9001	18950 S 7	EM	635
11 26	14 15 39.4289	1	4 53 25.642	49 0 57.45	9006	15102 S 3	SW	320
11 26	14 15 47.4288	1	4 54 52.249	49 25 26.86	9006	15102 S 4	SW	321
11 26	14 15 49.5511	1	23 6 38.329	43 30 17.49	9005	11525 S 2	LR	314
11 26	14 15 55.4292	1	4 56 20.373	49 49 35.01	9006	15102 S 5	SW	322
11 26	14 15 57.5512	1	23 5 25.815	43 55 24.08	9005	11525 S 3	LR	315
11 26	14 16 3.4292	1	4 57 49.910	50 13 37.87	9006	15102 S 6	SW	323
11 26	14 16 5.5509	1	23 4 12.430	44 20 30.00	9005	11525 S 4	LR	815
11 26	14 16 11.4293	1	4 59 21.220	50 37 30.58	9006	15102 S 7	SW	324
11 26	14 16 13.5510	1	23 2 57.754	44 45 25.49	9005	11525 S 5	LR	316
11 26	14 16 19.4299	1	5 0 54.523	51 1 11.76	9006	15102 S 8	HP	325
11 26	14 16 21.5511	1	23 1 41.511	45 10 12.85	9005	11525 S 6	LR	317
11 26	14 16 27.4298	1	5 2 28.994	51 24 41.58	9006	15102 S 9	HP	326
11 26	14 16 29.5509	1	23 0 24.371	45 34 52.37	9005	11525 S 7	LR	318
11 26	14 16 45.5528	1	22 57 46.359	46 23 42.85	9005	11525 S 9	LR	319
11 26	14 18 51.4306	1	5 36 10.505	57 53 37.96	9006	15103 S 3	SW	447
11 26	14 18 59.4306	1	5 38 22.291	58 13 6.51	9006	15103 S 4	SW	448
11 26	14 19 7.4306	1	5 40 36.425	58 32 18.65	9006	15103 S 5	SW	449
11 26	14 19 7.7014	1	22 30 4.577	53 8 36.16	9005	11526 S 4	TA	441

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 11 26	14 19 15.4309	1	5 42 53.348	58 51 16.14	4	9006	15103 S 6	EM	450
11 26	14 19 15.7015	1	22 28 15.790	53 29 36.35	4	9005	11526 S 5	TA	1738
11 26	14 19 23.4308	1	5 45 12.218	59 9 57.31	4	9006	15103 S 7	EM	451
11 26	14 19 23.7014	1	22 26 25.106	53 50 24.99	4	9005	11526 S 6	TA	442
11 26	14 19 31.4310	1	5 47 33.663	59 28 25.12	4	9006	15103 S 8	EM	452
11 26	14 19 31.7015	1	22 24 32.737	54 11 2.85	4	9005	11526 S 7	SW	443
11 26	14 19 39.4312	1	5 49 57.079	59 46 33.90	4	9006	15103 S 9	EM	817
11 26	14 19 47.7016	1	22 20 42.176	54 51 38.41	4	9005	11526 S 9	SW	444
11 26	14 19 55.7014	1	22 18 44.206	55 11 32.72	4	9005	11526 S10	SW	445
11 26	14 20 3.7014	1	22 16 44.441	55 31 15.63	4	9005	11526 S11	SW	446
11 27	1 2 19.2725	1	2 27 20.529	27 32 17.26	4	9011	17159 S 7	WI	752
11 27	1 2 19.4334	1	3 2 35.370	-25 52 47.57	4	9009	14698 S 6	KA	746
11 27	1 2 27.2725	1	2 27 12.615	27 57 31.01	4	9011	17159 S 8	WI	753
11 27	1 2 27.4334	1	3 2 23.093	-25 19 48.09	4	9009	14698 S 7	KA	747
11 27	1 2 35.2724	1	2 27 5.121	28 22 37.66	4	9011	17159 S 9	WI	754
11 27	1 2 35.4331	1	3 2 15.847	-24 46 34.65	4	9009	14698 S 8	KA	748
11 27	1 2 42.2726	1	2 26 57.673	28 47 20.82	4	9011	17159 S10	EM	755
11 27	1 2 43.4332	1	3 1 59.238	-24 13 8.88	4	9009	14698 S 9	KA	1744
11 27	1 2 51.2725	1	2 26 50.227	29 12 15.64	4	9011	17159 S11	EM	756
11 27	1 2 51.4331	1	3 1 47.616	-23 39 37.2	4	9009	14698 S10	KA	750
11 27	1 2 55.4333	1	3 1 36.323	-23 5 45.46	4	9009	14698 S11	KA	751
11 27	2 45 56.6110	1	23 49 10.048	9 47 22.43	4	9011	17168 S 3	KA	8229
11 27	2 46 12.6115	1	23 49 40.187	10 39 9.01	4	9011	17168 S 4	KA	8230
11 27	2 46 27.4339	1	23 28 31.833	-33 27 44.56	4	9009	14701 S 3	KA	8233
11 27	2 46 28.6121	1	23 50 9.484	11 28 28.68	4	9011	17168 S 5	KA	8231
11 27	2 46 35.4343	1	23 28 50.203	-33 1 35.62	4	9009	14701 S 4	KA	8234
11 27	2 46 43.4342	1	23 29 8.071	-32 35 24.30	4	9009	14701 S 5	KA	8235
11 27	2 46 44.6120	1	23 50 36.944	12 18 8.91	4	9011	17168 S 6	KA	8232
11 27	2 46 51.4342	1	23 29 25.402	-32 9 5.53	4	9009	14701 S 6	KA	8236
11 27	2 46 55.4342	1	23 29 42.430	-31 42 42.75	4	9009	14701 S 7	KA	8720
11 28	2 8 27.4297	1	1 31 29.814	- 8 59 37.73	4	9007	16099 S 1	WC	7859
11 28	2 8 35.4290	1	1 31 24.770	- 8 14 17.76	4	9007	16099 S 2	WC	7860
11 28	2 8 42.4294	1	1 31 19.886	- 7 29 10.19	4	9007	16099 S 3	WC	7861
11 28	2 8 51.4292	1	1 31 14.992	- 6 44 10.42	4	9007	16099 S 4	WC	7862
11 28	2 8 51.6155	1	1 4 5.300	13 41 24.81	4	9011	17192 S 1	WC	7865
11 28	2 8 59.4296	1	1 31 10.121	- 5 59 22.77	4	9007	16099 S 5	WC	7863
11 28	2 8 59.6153	1	1 4 7.799	14 12 51.27	4	9011	17192 S 2	WC	7866
11 28	2 9 7.4201	1	1 31 5.181	- 5 14 47.89	4	9007	16099 S 6	WC	7864
11 28	2 9 7.6154	1	1 4 10.562	14 43 59.36	4	9011	17192 S 3	WC	7867
11 28	2 9 15.6152	1	1 4 12.297	15 14 58.22	4	9011	17192 S 4	WC	7868
11 28	2 9 31.6152	1	1 4 16.314	16 16 0.20	4	9011	17192 S 6	WC	7869
11 28	2 12 3.4302	1	1 11 59.275	-31 14 27.27	4	9009	14709 S 1	EM	454
11 28	2 12 3.6096	1	1 4 29.680	25 9 22.64	4	9011	17193 S 1	DK	460
11 28	2 12 11.4308	1	1 11 55.764	-30 39 50.51	4	9009	14709 S 2	EM	455
11 28	2 12 11.6096	1	1 4 29.210	25 35 17.54	4	9011	17193 S 2	DK	461

Satellite 1963 30D

28 November - 29 November 1964

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 28	2 12 19.4387	1	1 11 52.314	-30 5 2.23	4	9009	14709 S 3	EM	456
11 28	2 12 19.6098	1	1 1 4 28.469	26 1 2.09	4	9011	17193 S 3	DK	462
11 28	2 12 27.4385	1	1 11 48.769	-29 30 5.02	4	9009	14709 S 4	EM	457
11 28	2 12 27.6097	1	1 4 27.828	26 26 32.28	4	9011	17193 S 4	DK	463
11 28	2 12 35.6096	1	1 4 27.101	26 51 53.79	4	9011	17193 S 5	DK	464
11 28	2 12 43.4382	1	1 11 41.296	-28 19 31.36	4	9009	14709 S 6	EM	458
11 28	2 12 51.4382	1	1 11 37.423	-27 43 59.62	4	9009	14709 S 7	EM	459
11 28	13 47 53.8029	1	23 26 0.847	42 21 21.73	4	9005	11545 S 3	LR	8216
11 28	13 48 1.8028	1	23 24 55.097	42 49 12.18	4	9005	11545 S 4	LR	8217
11 28	13 48 3.4625	1	4 49 56.528	43 22 52.82	4	9006	15144 S 5	AC	8223
11 28	13 48 9.8027	1	23 23 47.979	43 16 52.57	4	9005	11545 S 5	HP	8715
11 28	13 48 11.4628	1	4 51 8.583	43 46 52.27	4	9006	15144 S 6	AC	8224
11 28	13 48 17.8028	1	23 22 39.669	43 44 27.96	4	9005	11545 S 6	HP	8716
11 28	13 48 19.4630	1	4 52 22.058	44 10 48.15	4	9006	15144 S 7	AC	8225
11 28	13 48 25.8027	1	23 21 30.406	44 11 51.72	4	9006	11545 S 7	HP	8220
11 28	13 48 27.4631	1	4 53 36.594	44 34 35.63	4	9006	15144 S 8	AC	8226
11 28	13 48 33.8025	1	23 20 19.815	44 39 7.79	4	9005	11545 S 8	HP	8221
11 28	13 48 35.4635	1	4 54 52.590	44 58 17.06	4	9006	15144 S 9	AC	8227
11 28	13 48 41.8025	1	23 19 7.436	45 6 19.49	4	9005	11545 S 9	HP	8222
11 28	13 48 43.4642	1	4 56 9.472	45 21 55.45	4	9006	15144 S10	JW	8228
11 29	5 0 43.5323	1	0 5 55.416	-24 58 25.34	4	9012	16008 S 5	AC	8329
11 29	5 0 51.5209	1	0 5 56.309	-24 30 0.14	4	9012	16008 S 6	AC	8330
11 29	5 1 7.4984	1	0 5 57.412	-23 32 55.28	4	9012	16008 S 8	AC	8331
11 29	5 1 15.4911	1	0 5 57.619	-23 4 10.19	4	9012	16008 S 9	AC	8332
11 29	5 1 23.4813	1	0 5 57.336	-22 35 20.72	4	9012	16008 S10	AC	8333
11 29	5 1 39.4675	1	0 5 56.380	-21 37 25.37	4	9012	16008 S12	SW	8334
11 29	5 4 35.5602	1	0 4 35.808	-13 33 49.72	4	9012	16009 S 6	WC	8074
11 29	5 4 43.5601	1	0 4 29.161	-10 2 41.10	4	9012	16009 S 7	WC	8075
11 29	5 4 51.5600	1	0 4 22.057	-9 31 32.60	4	9012	16009 S 8	WC	8076
11 29	5 4 59.5599	1	0 4 15.100	-9 0 17.60	4	9012	16009 S 9	WC	8077
11 29	5 5 7.5598	1	0 4 7.514	-8 28 54.47	4	9012	16009 S10	KA	8078
11 29	5 5 15.5595	1	0 3 59.813	-7 57 31.90	4	9012	16009 S11	KA	8079
11 29	20 35 7.4404	1	3 47 37.278	51 12 26.31	4	9004	16545 S 4	EM	131
11 29	20 35 7.4504	1	22 41 21.027	40 45 43.90	4	9008	20939 S 3	AC	813
11 29	20 35 15.4405	1	3 48 49.649	51 44 27.95	4	9004	16545 S 5	EM	132
11 29	20 35 15.4505	1	22 40 19.181	41 5 57.05	4	9008	20939 S 4	AC	138
11 29	20 35 23.4404	1	3 50 3.366	52 16 21.33	4	9004	16545 S 6	EM	133
11 29	20 35 23.4507	1	22 39 16.444	41 26 4.97	4	9008	20939 S 5	AC	139
11 29	20 35 31.4404	1	3 51 19.156	52 48 4.87	4	9004	16545 S 7	EM	134
11 29	20 35 31.4506	1	22 38 12.927	41 46 7.46	4	9008	20939 S 6	AC	140
11 29	20 35 39.4403	1	3 52 36.835	53 19 39.32	4	9004	16545 S 8	EM	135
11 29	20 35 39.4507	1	22 37 8.200	42 6 3.90	4	9008	20939 S 7	AC	814
11 29	20 35 47.4404	1	3 53 56.469	53 51 4.68	4	9004	16545 S 9	AC	136
11 29	20 35 47.4507	1	22 36 2.832	42 25 51.89	4	9008	20939 S 8	AC	141
11 29	20 35 55.4404	1	3 55 18.209	54 22 16.28	4	9004	16545 S10	AC	137

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 11 29	20 38 35.4421	1	4 32 0.947	64 2 56.57	4	9004	16546 S 2	SW	8049
11 29	20 38 43.4421	1	4 34 27.900	64 29 21.40	4	9004	16546 S 3	SW	8050
11 29	20 38 51.4422	1	4 36 59.198	64 55 31.31	4	9004	16546 S 4	SW	8051
11 29	20 38 59.4419	1	4 39 34.962	65 21 21.71	4	9004	16546 S 5	SW	8052
11 29	20 38 59.4513	1	22 5 13.350	49 44 20.45	4	9008	20940 S 8	EM	8056
11 29	20 39 7.4420	1	4 42 15.639	65 46 50.78	4	9004	16546 S 6	SW	8053
11 29	20 39 7.4513	1	22 3 43.628	50 0 52.72	4	9008	20940 S 9	EM	8057
11 29	20 39 15.4420	1	4 45 1.494	66 12 3.90	4	9004	16546 S 7	SW	8054
11 29	20 39 15.4512	1	22 2 12.593	50 17 18.96	4	9008	20940 S 10	EM	8058
11 29	20 39 23.4422	1	4 47 52.344	-66 36 56.06	4	9004	16546 S 8	EM	8055
11 29	20 39 23.4515	1	22 0 40.780	50 33 32.71	4	9008	20940 S 11	EM	8059
11 29	20 39 31.4514	1	21 59 7.312	50 49 41.51	4	9008	20940 S 12	EM	8060
11 30	10 30 27.5666	1	3 39 2.505	34 18 14.71	4	9005	11557 S 5	JW	8027
11 30	10 30 35.5668	1	3 39 44.864	34 51 9.29	4	9005	11557 S 6	JW	8028
11 30	10 30 51.5676	1	3 41 12.789	35 56 55.63	4	9005	11557 S 8	JW	8029
11 30	10 30 59.5679	1	3 41 57.630	36 29 45.94	4	9005	11557 S 9	JW	8030
11 30	10 31 7.5681	1	3 42 43.941	37 2 27.58	4	9005	11557 S 10	JW	8031
11 30	10 31 15.5683	1	3 43 30.937	37 35 9.84	4	9005	11557 S 11	JW	8032
11 30	13 17 39.4971	1	4 27 34.953	29 49 51.53	4	9006	15188 S 8	LR	8206
11 30	13 17 47.3483	1	0 1 42.327	32 13 58.07	4	9005	11559 S 4	WC	8202
11 30	13 17 47.4971	1	4 28 19.866	30 14 33.59	4	9006	15188 S 9	LR	8207
11 30	13 17 55.3484	1	0 0 59.690	32 45 57.25	4	9005	11559 S 5	WC	8203
11 30	13 17 55.4965	1	4 29 5.706	30 39 12.02	4	9006	15188 S 10	LR	8208
11 30	13 18 3.3483	1	0 0 16.112	33 17 56.31	4	9005	11559 S 6	WC	8204
11 30	13 18 3.4975	1	4 29 51.932	31 3 49.85	4	9006	15188 S 11	LR	8209
11 30	13 18 11.3484	1	23 59 31.950	33 49 45.16	4	9005	11559 S 7	WC	8205
11 30	13 20 27.3494	1	23 44 45.971	42 38 27.64	4	9005	11560 S 2	FI	7897
11 30	13 20 27.5025	1	4 45 54.323	38 17 4.95	4	9006	15189 S 1	FI	7904
11 30	13 20 35.3493	1	23 43 44.755	43 8 36.50	4	9005	11560 S 3	FI	7898
11 30	13 20 43.3496	1	23 42 42.528	43 38 40.51	4	9005	11560 S 4	FI	7899
11 30	13 20 43.5013	1	4 47 57.814	39 3 45.64	4	9006	15189 S 3	FI	7905
11 30	13 20 51.3496	1	23 41 38.736	44 8 31.54	4	9005	11560 S 5	FI	7900
11 30	13 20 51.5013	1	4 49 1.063	39 26 57.04	4	9006	15189 S 4	FI	7906
11 30	13 20 59.3496	1	23 40 33.406	44 38 18.34	4	9005	11560 S 6	FI	7901
11 30	13 20 59.5016	1	4 50 5.215	39 50 5.00	4	9006	15189 S 5	FI	7907
11 30	13 21 7.3497	1	23 39 27.455	45 7 55.16	4	9005	11560 S 7	FI	7902
11 30	13 21 7.5022	1	4 51 10.187	40 13 6.84	4	9006	15189 S 6	FI	8707
11 30	13 21 15.3498	1	23 38 19.982	45 37 25.34	4	9005	11560 S 8	FI	7903
11 30	13 21 15.5028	1	4 52 16.386	40 36 5.08	4	9006	15189 S 7	FI	7908
11 30	13 24 19.3509	1	23 5 8.709	56 9 35.36	4	9005	11561 S 5	DK	68
11 30	13 24 27.3510	1	23 3 18.168	56 34 43.36	4	9005	11561 S 6	LR	69
11 30	13 24 27.5051	1	5 24 11.487	49 11 27.49	4	9006	15190 S 1	LR	74
11 30	13 24 35.3510	1	23 1 25.888	56 59 39.84	4	9005	11561 S 7	LR	70
11 30	13 24 35.5055	1	5 25 46.797	49 31 12.72	4	9006	15190 S 2	LR	75
11 30	13 24 43.5053	1	5 27 23.462	49 50 45.49	4	9006	15190 S 3	EM	76

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 11 30	12 24 51.3509	1	22 57 34.028	57 48 45.16	4	9005	11561 S 9	LR	71
11 30	12 24 51.5053	1	5 29 1.701	50 12 12.91	4	9006	15190 S 4	EM	77
11 30	12 24 59.3509	1	22 55 33.775	58 12 57.26	4	9005	11561 S10	LR	72
11 30	12 24 59.5055	1	5 30 41.265	50 29 26.29	4	9006	15190 S 5	EM	78
11 30	12 25 7.3512	1	22 53 31.132	58 36 56.56	4	9005	11561 S11	LR	73
11 30	12 25 7.5259	1	5 32 22.260	50 48 30.77	4	9006	15190 S 6	EM	79
12 1	12 28 19.4297	1	23 26 37.437	20 35 49.77	4	9004	16576 S 9	VP	9805
12 1	12 28 19.4388	1	4 13 25.205	53 47 35.89	4	9009	14761 S10	VP	9810
12 1	12 28 27.4297	1	23 26 4.971	20 59 14.76	4	9004	16576 S10	VP	9806
12 1	12 28 27.4391	1	4 14 23.620	54 12 13.18	4	9009	14761 S11	VP	9811
12 1	12 28 35.4297	1	23 25 32.197	21 22 39.43	4	9004	16576 S11	VP	9807
12 1	12 28 35.4392	1	4 15 23.851	54 36 45.50	4	9009	14761 S12	VP	9812
12 1	12 28 42.4298	1	23 24 59.027	21 46 2.75	4	9004	16576 S12	VP	9808
12 1	12 28 43.4393	1	4 16 25.230	55 1 2.36	4	9009	14761 S13	VP	9813
12 1	12 28 51.4297	1	23 24 25.231	22 9 23.98	4	9004	16576 S13	VP	9809
12 1	12 31 7.4315	1	23 13 35.160	28 42 41.05	4	9004	16577 S 3	KV	9718
12 1	12 31 7.4406	1	4 38 58.624	61 49 24.12	4	9009	14762 S 3	KV	9725
12 1	12 31 15.4315	1	23 12 52.110	29 5 27.93	4	9004	16577 S 4	KV	9719
12 1	12 31 15.4405	1	4 40 30.043	62 10 25.52	4	9009	14762 S 4	KV	9726
12 1	12 31 23.4316	1	23 12 8.071	29 28 13.61	4	9004	16577 S 5	KV	9720
12 1	12 31 23.4405	1	4 42 3.733	62 31 13.86	4	9009	14762 S 5	KV	9727
12 1	12 31 31.4314	1	23 11 24.116	29 50 59.21	4	9004	16577 S 6	KV	9721
12 1	12 31 31.4404	1	4 43 39.763	62 51 52.13	4	9009	14762 S 6	KV	9728
12 1	12 31 39.4315	1	23 10 38.965	30 13 37.99	4	9004	16577 S 7	KV	9722
12 1	12 31 39.4405	1	4 45 17.550	63 12 19.45	4	9009	14762 S 7	KV	9729
12 1	12 31 47.4315	1	23 9 53.591	30 36 17.45	4	9004	16577 S 8	KV	9723
12 1	12 31 47.4405	1	4 46 57.807	63 32 35.63	4	9009	14762 S 8	KV	9730
12 1	12 31 55.4314	1	23 9 7.468	30 58 49.85	4	9004	16577 S 9	KV	9724
12 1	12 31 55.4405	1	4 48 43.360	63 52 37.60	4	9009	14762 S 9	KV	9731
12 1	12 33 39.4524	1	5 1 7.315	50 50 55.92	4	9010	15919 S 3	VP	9906
12 1	12 33 47.4287	1	22 57 11.069	36 8 52.37	4	9004	16578 S 6	VP	364
12 1	12 33 55.4288	1	22 56 14.605	36 30 28.47	4	9004	16578 S 7	VP	9903
12 1	12 33 55.4528	1	5 4 9.791	51 36 24.71	4	9010	15919 S 4	VP	9907
12 1	12 34 3.4289	1	22 55 17.228	36 52 1.79	4	9004	16578 S 8	VP	9901
12 1	12 34 11.4286	1	22 54 19.174	37 13 32.43	4	9004	16578 S 9	VP	9902
12 1	12 34 11.4533	1	5 7 18.979	52 21 10.95	4	9010	15919 S 5	VP	9908
12 1	12 34 19.4285	1	22 53 20.245	37 34 56.17	4	9004	16578 S10	VP	9903
12 1	12 34 27.4286	1	22 52 20.712	37 56 16.26	4	9004	16578 S11	VP	9904
12 1	12 34 27.4535	1	5 10 35.027	53 5 18.60	4	9010	15919 S 6	VP	9909
12 1	12 34 35.4284	1	22 51 20.017	38 17 29.64	4	9004	16578 S12	VP	9905
12 1	12 34 42.4548	1	5 13 57.539	53 48 38.19	4	9010	15919 S 7	VP	9910
12 1	12 39 15.4291	1	22 5 56.936	49 33 50.31	4	9004	16580 S 3	LL	9911
12 1	12 39 15.4644	1	6 32 7.713	63 44 41.16	4	9010	15921 S 2	LL	9918
12 1	12 39 23.4293	1	22 4 19.680	49 50 45.44	4	9004	16580 S 4	LL	9912
12 1	12 39 31.4291	1	22 2 43.242	50 7 32.13	4	9004	16580 S 5	LL	9913

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.-NO.
1964 12 1	C 39 31.4646	1	6 38 4.322	64 9 50.15	9010	15921 S 3	LL	9919
12 1	C 39 35.4293	1	22 0 59.730	50 24 8.26	9004	16580 S 6	LL	9914
12 1	C 39 47.4290	1	21 59 18.312	50 40 38.39	9004	16580 S 7	LL	9915
12 1	C 39 47.4648	1	6 44 9.632	64 33 39.53	9010	15921 S 4	LL	9920
12 1	C 39 55.4291	1	21 57 35.576	50 56 55.49	9004	16580 S 8	LL	9916
12 1	C 40 3.4290	1	21 55 51.539	51 12 59.82	9004	16580 S 9	LL	9917
12 1	C 40 3.4650	1	6 50 24.374	64 56 13.67	9010	15921 S 5	LL	9921
12 1	2 51 23.0499	1	0 9 10.135	7 51 49.58	9011	17221 S 3	SU	1080
12 1	2 51 31.0501	1	0 9 24.597	8 21 11.64	9011	17221 S 4	SU	1081
12 1	2 51 31.4581	1	23 54 16.624	-42 6 52.14	9009	14770 S 4	SU	1073
12 1	2 51 39.0502	1	0 9 38.693	8 50 22.09	9011	17221 S 5	SU	1082
12 1	2 51 39.4585	1	23 54 35.361	-41 39 43.79	9009	14770 S 5	SU	1074
12 1	2 51 47.0500	1	0 9 52.547	9 19 22.19	9011	17221 S 6	SU	1083
12 1	2 51 47.4586	1	23 54 53.440	-41 12 31.03	9009	14770 S 6	SU	1075
12 1	2 51 55.0501	1	0 10 5.994	9 48 9.94	9011	17221 S 7	SU	1084
12 1	2 51 55.4585	1	23 55 10.886	-40 45 5.71	9009	14770 S 7	SU	1076
12 1	2 52 3.7522	1	0 10 18.959	10 16 45.40	9011	17221 S 8	SU	1085
12 1	2 52 3.4582	1	23 55 28.416	-40 17 35.50	9009	14770 S 8	SU	1077
12 1	2 52 11.0499	1	0 10 31.684	10 45 12.62	9011	17221 S 9	SU	1086
12 1	2 52 11.4584	1	23 55 44.962	-39 49 58.05	9009	14770 S 9	SU	1078
12 1	2 52 19.4585	1	23 56 1.461	-39 22 13.53	9009	14770 S10	SU	1079
12 1	2 54 59.4632	1	0 0 3.460	-29 39 47.27	9009	14771 S 4	KV	721
12 1	2 55 7.0505	1	0 13 59.843	20 24 50.27	9011	17222 S 3	KV	728
12 1	2 55 7.4634	1	0 0 11.652	-29 9 21.10	9009	14771 S 5	KV	722
12 1	2 55 15.0503	1	0 14 6.137	20 49 16.37	9011	17222 S 4	KV	729
12 1	2 55 15.4635	1	0 0 19.594	-28 38 46.94	9009	14771 S 6	KV	723
12 1	2 55 23.0501	1	0 14 12.346	21 13 29.59	9011	17222 S 5	KV	730
12 1	2 55 23.4636	1	0 0 27.240	-28 8 8.27	9009	14771 S 7	KV	724
12 1	2 55 31.0504	1	0 14 18.160	21 37 38.96	9011	17222 S 6	KV	731
12 1	2 55 31.4634	1	0 0 34.293	-27 37 21.10	9009	14771 S 8	KV	2056
12 1	2 55 39.0506	1	0 14 23.937	22 1 33.31	9011	17222 S 7	KV	1727
12 1	2 55 39.4635	1	0 0 41.110	-27 6 26.81	9009	14771 S 9	KV	726
12 1	2 55 47.0502	1	0 14 29.213	22 25 19.19	9011	17222 S 8	KV	732
12 1	2 55 47.4632	1	0 0 47.704	-26 35 26.63	9009	14771 S10	KV	727
12 1	3 2 10.3503	1	2 54 20.923	-21 17 45.65	9001	19082 S 2	RO	503
12 1	3 2 11.4641	1	0 0 10.935	-0 11 0.03	9009	14773 S 6	RO	405
12 1	3 2 18.3501	1	2 54 20.418	-20 51 39.97	9001	19082 S 3	RO	504
12 1	3 2 19.4642	1	0 0 3.095	0 23 0.70	9009	14773 S 7	RO	406
12 1	3 2 26.3501	1	2 54 20.320	-20 25 19.45	9001	19082 S 4	RO	505
12 1	3 2 27.4642	1	23 59 55.060	0 57 0.85	9009	14773 S 8	RO	407
12 1	3 2 35.4643	1	23 59 46.701	1 31 2.06	9009	14773 S 9	RO	408
12 1	3 2 42.3501	1	2 54 20.612	-19 32 22.86	9001	19082 S 6	RO	808
12 1	3 2 43.4642	1	23 59 37.832	2 5 0.14	9009	14773 S10	RO	409
12 1	3 2 50.3499	1	2 54 20.871	-19 5 37.73	9001	19082 S 7	RO	809
12 1	3 2 51.4643	1	23 59 29.027	2 38 56.97	9009	14773 S11	RO	410

Satellite 1963 30D

1 December 1964

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 12 1	3 2 58.3499	1	2 54 21.361	-18 38 48.81	9001	19082 S 8	RO	508
12 1	3 2 59.4640	1	23 59 19.702	3 12 55.85	9009	14773 S12	RO	411
12 1	3 3 6.3500	1	2 54 22.099	-18 11 50.59	9001	19082 S 9	RO	509
12 1	5 51 15.9065	1	3 34 47.230	-5 1 9.78	9012	16048 S 3	AV	580
12 1	5 51 23.9063	1	3 34 51.864	-4 30 58.13	9012	16048 S 4	AV	581
12 1	5 51 30.4006	1	0 12 29.949	-14 58 10.95	9001	19090 S 5	AV	573
12 1	5 51 31.9062	1	3 34 56.788	-4 0 41.38	9012	16048 S 5	AV	805
12 1	5 51 38.4006	1	0 12 22.463	-14 31 58.79	9001	19090 S 6	AV	574
12 1	5 51 39.9062	1	3 35 1.934	-3 30 24.91	9012	16048 S 6	AV	582
12 1	5 51 46.4007	1	0 12 14.515	-14 5 36.98	9001	19090 S 7	AV	575
12 1	5 51 47.9061	1	3 35 7.394	-2 59 57.29	9012	16048 S 7	AV	583
12 1	5 51 54.4006	1	0 12 6.503	-13 39 8.29	9001	19090 S 8	AV	576
12 1	5 51 55.9061	1	3 35 13.070	-2 29 28.48	9012	16048 S 8	AV	584
12 1	5 52 2.4005	1	0 11 58.139	-13 12 42.30	9001	19090 S 9	AV	577
12 1	5 52 3.9061	1	3 35 19.019	-1 58 49.22	9012	16048 S 9	AV	585
12 1	5 52 10.4003	1	0 11 49.537	-12 46 7.46	9001	19090 S10	AV	578
12 1	5 52 18.4003	1	0 11 41.066	-12 19 25.83	9001	19090 S11	AV	579
12 1	5 54 42.4006	1	0 8 23.186	-4 5 35.94	9001	19091 S 2	KV	695
12 1	5 54 50.4005	1	0 8 9.786	-3 37 25.04	9001	19091 S 3	KV	2057
12 1	5 54 51.9084	1	3 38 35.636	8 58 38.52	9012	16049 S 3	KV	702
12 1	5 54 58.4007	1	0 7 56.180	-3 9 12.72	9001	19091 S 4	KV	2058
12 1	5 54 59.9085	1	3 38 48.508	9 30 32.40	9012	16049 S 4	KV	2062
12 1	5 55 6.4004	1	0 7 42.121	-2 40 55.22	9001	19091 S 5	KV	698
12 1	5 55 7.9084	1	3 39 1.817	10 2 25.63	9012	16049 S 5	KV	704
12 1	5 55 14.4005	1	0 7 28.040	-2 12 31.16	9001	19091 S 6	KV	2059
12 1	5 55 15.9083	1	3 39 15.287	10 34 24.86	9012	16049 S 6	KV	2063
12 1	5 55 22.4006	1	0 7 13.536	-1 44 6.01	9001	19091 S 7	KV	2060
12 1	5 55 23.9084	1	3 39 29.320	11 6 18.00	9012	16049 S 7	KV	2064
12 1	5 55 30.4005	1	0 6 58.890	-1 15 37.89	9001	19091 S 8	KV	2061
12 1	5 55 31.9083	1	3 39 43.567	11 38 18.99	9012	16049 S 8	KV	707
12 1	5 55 39.9085	1	3 39 58.188	12 10 23.03	9012	16049 S 9	KV	2065
12 1	6 5 14.4021	1	23 31 57.709	34 24 50.26	9001	19094 S 4	KV	1199
12 1	6 5 22.4024	1	23 31 8.873	34 53 2.09	9001	19094 S 5	KV	1200
12 1	6 5 23.9035	1	4 21 25.930	49 11 55.69	9012	16052 S 5	KV	1206
12 1	6 5 30.4022	1	23 30 19.148	35 21 7.18	9001	19094 S 6	KV	1201
12 1	6 5 31.9034	1	4 22 29.983	49 38 27.03	9012	16052 S 6	KV	1207
12 1	6 5 38.4023	1	23 29 28.696	35 49 8.15	9001	19094 S 7	KV	1202
12 1	6 5 39.9035	1	4 23 35.364	50 4 54.29	9012	16052 S 7	KV	1208
12 1	6 5 46.4023	1	23 28 37.308	36 17 3.30	9001	19094 S 8	KV	1203
12 1	6 5 47.9035	1	4 24 42.012	50 31 8.01	9012	16052 S 8	KV	1209
12 1	6 5 54.4021	1	23 27 45.527	36 44 50.39	9001	19094 S 9	KV	1204
12 1	6 5 55.9035	1	4 25 50.011	50 57 11.34	9012	16052 S 9	KV	1210
12 1	6 6 2.4021	1	23 26 52.451	37 12 33.22	9001	19094 S10	KV	1205
12 1	6 6 3.9035	1	4 26 59.050	51 23 5.99	9012	16052 S10	KV	1211
12 1	6 6 11.9036	1	4 28 9.849	51 48 51.25	9012	16052 S11	KV	1212

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 12 1	6 8 58.4030	1	23 3 18.549	46 52 12.29	4	9001	19095 S 6	SU	-1160
12 1	6 8 59.9024	1	4 59 15.367	60 7 7.56	4	9012	16053 S 5	SU	1167
12 1	6 9 6.4030	1	23 2 1.208	47 16 54.81	4	9001	19095 S 7	SU	1161
12 1	6 9 7.9024	1	5 1 5.638	60 28 36.74	4	9012	16053 S 6	SU	1168
12 1	6 9 14.4030	1	23 0 42.643	47 41 33.76	4	9001	19095 S 8	SU	1162
12 1	6 9 15.9025	1	5 2 58.456	60 49 58.86	4	9012	16053 S 7	SU	1169
12 1	6 9 22.4030	1	22 59 22.189	48 5 59.75	4	9001	19095 S 9	SU	1163
12 1	6 9 23.9027	1	5 4 53.321	61 10 58.65	4	9012	16053 S 8	SU	1170
12 1	6 9 30.4031	1	22 58 0.986	48 30 17.33	4	9001	19095 S10	SU	1164
12 1	6 9 31.9026	1	5 6 51.942	61 32 2.01	4	9012	16053 S 9	SU	1171
12 1	6 9 38.4030	1	22 56 38.376	48 54 21.79	4	9001	19095 S11	SU	1165
12 1	6 9 39.9029	1	5 8 51.396	61 52 35.63	4	9012	16053 S10	SU	1172
12 1	6 9 46.4029	1	22 55 14.418	49 18 19.48	4	9001	19095 S12	SU	1166
12 1	6 9 47.9030	1	5 10 54.576	62 13 4.32	4	9012	16053 S11	SU	1173
12 1	8 37 31.4550	1	0 20 47.934	-12 7 41.07	4	9012	16060 S 6	VP	254
12 1	8 37 35.4549	1	0 20 40.893	-11 35 1.03	4	9012	16060 S 7	VP	255
12 1	8 37 47.4548	1	0 20 33.785	-11 2 9.60	4	9012	16060 S 8	VP	256
12 1	8 37 55.4548	1	0 20 26.354	-10 29 21.19	4	9012	16060 S 9	VP	257
12 1	8 38 3.4543	1	0 20 18.612	- 9 56 24.60	4	9012	16060 S10	VP	258
12 1	8 38 11.4542	1	0 20 10.656	- 9 23 19.29	4	9012	16060 S11	VP	259
12 1	8 38 19.4540	1	0 20 2.546	- 8 50 12.60	4	9012	16060 S12	VP	260
12 1	8 40 35.4556	1	0 17 5.417	0 44 8.42	4	9012	16061 S 3	VP	391
12 1	8 40 43.4554	1	0 16 52.834	1 18 27.84	4	9012	16061 S 4	VP	392
12 1	8 40 51.4556	1	0 16 39.806	1 52 44.28	4	9012	16061 S 5	VP	393
12 1	8 40 59.4554	1	0 16 26.241	2 27 10.87	4	9012	16061 S 6	VP	394
12 1	8 41 7.4555	1	0 16 12.826	3 1 32.08	4	9012	16061 S 7	VP	395
12 1	8 41 15.4554	1	0 15 58.821	3 35 57.78	4	9012	16061 S 8	VP	396
12 1	8 41 23.4553	1	0 15 44.643	4 10 27.24	4	9012	16061 S 9	VP	397
12 1	8 44 3.4567	1	0 9 55.972	15 39 49.99	4	9012	16062 S 3	VP	1048
12 1	8 44 11.4567	1	0 9 35.045	16 14 4.02	4	9012	16062 S 4	VP	1049
12 1	8 44 15.4568	1	0 9 13.661	16 48 13.90	4	9012	16062 S 5	VP	1050
12 1	8 44 27.4569	1	0 8 51.794	17 22 22.38	4	9012	16062 S 6	VP	1051
12 1	8 44 35.4567	1	0 8 29.981	17 56 28.36	4	9012	16062 S 7	VP	1052
12 1	8 44 43.4569	1	0 8 7.376	18 30 31.33	4	9012	16062 S 8	VP	1053
12 2	9 48 59.5474	1	23 33 7.332	- 6 9 17.92	4	9012	16096 S 6	VP	709
12 2	9 49 7.5473	1	23 33 1.578	- 5 43 49.44	4	9012	16096 S 7	VP	710
12 2	9 49 15.5472	1	23 32 55.746	- 5 18 20.90	4	9012	16096 S 8	VP	711
12 2	9 49 23.5471	1	23 32 49.769	- 4 52 50.20	4	9012	16096 S 9	VP	712
12 2	9 49 31.5471	1	23 32 43.066	- 4 27 16.24	4	9012	16096 S10	VP	713
12 2	9 49 35.5469	1	23 32 36.606	- 4 1 43.06	4	9012	16096 S11	VP	714
12 2	9 52 19.5514	1	23 29 25.686	4 31 24.27	4	9012	16097 S 6	VP	863
12 2	9 52 27.5513	1	23 29 13.124	4 57 2.27	4	9012	16097 S 7	VP	2050
12 2	9 52 35.5514	1	23 29 0.404	5 22 43.50	4	9012	16097 S 8	VP	865
12 2	9 52 43.5512	1	23 28 47.096	5 48 22.83	4	9012	16097 S 9	VP	866
12 2	9 52 51.5512	1	23 28 33.696	6 14 1.80	4	9012	16097 S10	VP	2051

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 12 2	5 52 59.5510	1	23 28 19.945	6 39 39.59	9012	16097 S11	VP	868
12 2	5 53 7.5509	1	23 28 6.032	7 5 17.07	9012	16097 S12	VP	869
12 4	6 44 11.4849	1	2 47 19.069	37 37 52.85	9012	16118 S 5	LM	801
12 4	6 44 19.4850	1	2 47 33.854	38 14 1.12	9012	16118 S 6	LM	478
12 4	6 44 27.4850	1	2 47 49.073	38 49 56.28	9012	16118 S 7	LM	479
12 4	6 44 35.4851	1	2 48 5.133	39 25 43.12	9012	16118 S 8	LM	480
12 4	6 44 43.4851	1	2 48 21.192	40 1 22.46	9012	16118 S 9	LM	481
12 4	6 44 51.4852	1	2 48 37.808	40 36 52.05	9012	16118 S10	LM	482
12 4	6 44 59.4854	1	2 48 54.808	41 12 16.07	9012	16118 S11	LM	483
12 4	6 46 11.5568	1	23 24 14.951	19 58 49.20	9001	19134 S 2	PG	62
12 4	6 46 19.5570	1	23 23 44.683	20 22 41.01	9001	19134 S 3	PG	63
12 4	6 46 27.4876	1	2 52 33.258	47 30 51.70	9012	16119 S 4	PG	55
12 4	6 46 27.5572	1	23 23 13.985	20 46 30.31	9001	19134 S 4	PG	64
12 4	6 46 35.4876	1	2 52 56.288	48 4 21.36	9012	16119 S 5	PG	56
12 4	6 46 35.5571	1	23 22 42.836	21 10 17.75	9001	19134 S 5	PG	65
12 4	6 46 43.4877	1	2 53 20.072	48 37 37.64	9012	16119 S 6	PG	57
12 4	6 46 43.5569	1	23 22 11.072	21 34 8.40	9001	19134 S 6	PG	66
12 4	6 46 51.4877	1	2 53 44.362	49 10 46.07	9012	16119 S 7	PG	58
12 4	6 46 51.5570	1	23 21 39.047	21 57 51.19	9001	19134 S 7	PG	811
12 4	6 46 59.4877	1	2 54 9.198	49 43 40.01	9012	16119 S 8	PG	59
12 4	6 46 59.5568	1	23 21 6.559	22 21 34.73	9001	19134 S 8	PG	67
12 4	6 47 7.4877	1	2 54 34.523	50 16 26.75	9012	16119 S 9	PG	60
12 4	6 47 15.4880	1	2 55 0.746	50 49 4.84	9012	16119 S10	PG	61
12 4	6 49 31.4855	1	3 4 32.844	59 35 54.05	9012	16120 S 2	SU	274
12 4	6 49 31.5558	1	23 9 16.128	29 45 12.80	9001	19135 S 3	SU	802
12 4	6 49 39.4855	1	3 5 15.439	60 5 14.29	9012	16120 S 3	SU	275
12 4	6 49 39.5559	1	23 8 33.427	30 8 7.07	9001	19135 S 4	SU	268
12 4	6 49 47.4855	1	3 5 59.671	60 34 25.11	9012	16120 S 4	SU	276
12 4	6 49 47.5560	1	23 7 50.183	30 30 58.55	9001	19135 S 5	SU	269
12 4	6 49 55.4854	1	3 6 45.391	61 3 26.85	9012	16120 S 5	SU	2055
12 4	6 49 55.5561	1	23 7 6.163	30 53 42.25	9001	19135 S 6	SU	803
12 4	6 50 3.4856	1	3 7 31.861	61 32 10.33	9012	16120 S 6	SU	277
12 4	6 50 3.5561	1	23 6 21.820	31 16 24.75	9001	19135 S 7	SU	271
12 4	6 50 11.4858	1	3 8 20.061	62 0 52.21	9012	16120 S 7	SU	278
12 4	6 50 11.5560	1	23 5 36.654	31 39 2.90	9001	19135 S 8	SU	272
12 4	6 50 19.4858	1	3 9 9.847	62 29 17.33	9012	16120 S 8	SU	279
12 4	6 50 19.5558	1	23 4 50.936	32 1 38.59	9001	19135 S 9	SU	273
12 4	5 25 23.2706	1	23 36 22.803	4 31 37.25	9012	16125 S 4	LM	562
12 4	5 25 31.2706	1	23 36 9.265	4 59 6.59	9012	16125 S 5	LM	563
12 4	5 25 39.2706	1	23 35 55.740	5 26 37.88	9012	16125 S 6	LM	804
12 4	9 25 55.2705	1	23 35 27.454	6 21 36.23	9012	16125 S 8	LM	565
12 4	9 26 11.2705	1	23 34 58.093	7 16 31.38	9012	16125 S10	LM	566
12 4	9 26 19.2702	1	23 34 42.890	7 44 3.27	9012	16125 S11	LM	567
12 4	9 32 11.1461	1	3 42 7.631	13 29 39.50	9005	11608 S 5	AV	1725
12 4	9 32 19.1461	1	3 42 33.071	13 57 43.61	9005	11608 S 6	AV	682

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.C) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 12 4	9 32 15.2727	1	23 17 8.861	27 41 58.02	4	9012	16127 S 6	AV	688
12 4	9 32 27.1462	1	3 42 58.760	14 25 55.75	4	9005	11608 S 7	AV	683
12 4	9 32 27.2726	1	23 16 36.018	28 7 16.45	4	9012	16127 S 7	AV	689
12 4	9 32 35.1463	1	3 43 24.698	14 54 4.38	4	9005	11608 S 8	AV	684
12 4	9 32 35.2726	1	23 16 2.442	28 32 27.11	4	9012	16127 S 8	AV	690
12 4	9 32 43.1462	1	3 43 51.325	15 22 21.92	4	9005	11608 S 9	AV	685
12 4	9 32 43.2726	1	23 15 28.522	28 57 32.98	4	9012	16127 S 9	AV	691
12 4	9 32 51.2725	1	23 14 53.824	29 22 37.13	4	9005	16127 S 10	AV	692
12 4	9 32 59.1465	1	3 44 45.773	16 19 1.00	4	9005	11608 S 11	AV	686
12 4	9 32 59.2725	1	23 14 19.071	29 47 31.38	4	9012	16127 S 11	AV	693
12 4	9 33 7.1468	1	3 45 13.215	16 47 27.11	4	9005	11608 S 12	AV	1726
12 4	9 33 7.2723	1	23 13 43.628	30 12 22.40	4	9012	16127 S 12	AV	694
12 4	9 35 23.1489	1	3 54 25.041	24 55 10.83	4	9005	11609 S 3	PG	733
12 4	9 35 23.2735	1	23 2 15.569	37 0 29.53	4	9012	16128 S 2	PG	739
12 4	9 35 31.1489	1	3 55 2.176	25 24 3.88	4	9005	11609 S 4	PG	734
12 4	9 35 31.2736	1	23 1 29.895	37 23 35.48	4	9012	16128 S 3	PG	740
12 4	9 35 35.1488	1	3 55 40.475	25 52 56.99	4	9005	11609 S 5	PG	735
12 4	9 35 39.2736	1	23 0 42.915	37 46 38.16	4	9012	16128 S 4	PG	741
12 4	9 35 47.1488	1	3 56 19.464	26 21 49.03	4	9005	11609 S 6	PG	736
12 4	9 35 47.2736	1	22 59 55.966	38 9 28.84	4	9012	16128 S 5	PG	742
12 4	9 35 55.1487	1	3 56 58.913	26 50 42.36	4	9005	11609 S 7	PG	737
12 4	9 36 3.1488	1	3 57 39.041	27 19 32.85	4	9005	11609 S 8	PG	1737
12 4	9 36 3.2737	1	22 58 19.584	38 54 56.13	4	9012	16128 S 7	PG	743
12 4	9 36 11.2737	1	22 57 30.454	39 17 30.69	4	9012	16128 S 8	PG	744
12 4	9 36 15.2735	1	22 56 40.598	39 39 52.81	4	9012	16128 S 9	PG	745
12 5	7 40 27.6711	1	1 4 28.381	-27 11 28.94	4	9012	16147 S 5	YK	498
12 5	7 40 35.6711	1	1 4 24.233	-26 40 13.51	4	9012	16147 S 6	YK	499
12 5	7 40 43.6712	1	1 4 19.520	-26 8 48.05	4	9012	16147 S 7	YK	500
12 5	7 40 51.6712	1	1 4 14.919	-25 37 18.02	4	9012	16147 S 8	YK	501
12 5	7 40 59.6712	1	1 4 10.136	-25 5 34.71	4	9012	16147 S 9	YK	502
12 5	7 44 3.6640	1	1 1 47.604	-12 12 25.37	4	9012	16148 S 5	SU	877
12 5	7 44 11.6641	1	1 1 39.908	-11 36 59.27	4	9012	16148 S 6	SU	878
12 5	7 44 15.6642	1	1 1 31.943	-11 1 23.87	4	9012	16148 S 7	SU	879
12 5	7 44 27.6642	1	1 1 24.040	-10 25 41.34	4	9012	16148 S 8	SU	880
12 5	7 44 35.6644	1	1 1 15.789	-9 49 54.70	4	9012	16148 S 9	YK	881
12 5	7 44 43.6644	1	1 1 7.438	-9 13 56.89	4	9012	16148 S 10	YK	882
12 5	7 44 51.6644	1	1 0 59.119	-8 37 52.72	4	9012	16148 S 11	YK	883
12 5	7 47 23.6628	1	0 57 48.664	3 7 41.00	4	9012	16149 S 5	DM	1252
12 5	7 47 31.6629	1	0 57 37.022	3 45 40.67	4	9012	16149 S 6	DM	1253
12 5	7 47 39.6631	1	0 57 25.084	4 23 41.33	4	9012	16149 S 7	DM	1254
12 5	7 47 47.6631	1	0 57 12.868	5 1 45.11	4	9012	16149 S 8	DM	1255
12 5	7 47 55.6632	1	0 57 0.729	5 39 49.57	4	9012	16149 S 9	DM	1256
12 5	7 48 3.6633	1	0 56 48.079	6 18 0.95	4	9012	16149 S 10	DM	1728
12 5	7 48 11.6634	1	0 56 35.392	6 56 11.04	4	9012	16149 S 11	DM	1257
12 5	7 56 59.6603	1	0 31 2.624	46 51 37.71	4	9012	16152 S 7	DM	1511

Satellite 1963 30D

5 December 1964

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 12 5	7 57 7.6603	1	C 30 22.565	47 23 24.78	4	9012	16152 S 8	DM	1512
12 5	7 57 15.6604	1	C 29 41.669	47 55 3.80	4	9012	16152 S 9	DM	1513
12 5	7 57 23.6603	1	C 28 59.871	48 26 29.29	4	9012	16152 S10	DM	1514
12 5	7 57 31.6604	1	C 28 17.187	48 57 43.53	4	9012	16152 S11	DM	1515
12 5	7 57 39.6606	1	C 27 33.697	49 28 46.99	4	9012	16152 S12	DM	1516
12 5	7 57 47.6605	1	C 26 49.430	49 59 40.49	4	9012	16152 S13	DM	1517
12 5	8 3 47.6072	1	23 26 34.273	69 41 12.16	4	9012	16153 S 5	LL	1087
12 5	8 4 3.6070	1	23 21 48.160	70 23 26.27	4	9012	16153 S 6	LL	1088
12 5	8 4 19.6075	1	23 16 44.517	71 4 39.88	4	9012	16153 S 7	LL	1089
12 5	8 4 35.6077	1	23 11 20.380	71 44 47.08	4	9012	16153 S 8	LL	1090
12 5	8 4 51.6075	1	23 5 34.883	72 23 55.65	4	9012	16153 S 9	LL	1091
12 5	8 5 7.6078	1	22 59 28.735	73 1 49.01	4	9012	16153 S10	LL	1092
12 5	8 5 23.6079	1	22 52 57.723	73 38 31.49	4	9012	16153 S11	LL	1093
12 5	15 10 2.9711	1	2 19 38.564	7 11 21.35	4	9115	4120 S 5	VP	1226
12 5	15 10 3.4362	1	3 56 19.277	26 11 33.88	4	9004	16689 S 2	VP	1213
12 5	15 10 4.3064	1	23 28 14.653	34 28 20.73	4	9008	21090 S 3	VP	1219
12 5	15 10 10.9723	1	2 19 48.011	7 37 18.09	4	9115	4120 S 6	VP	1227
12 5	15 10 11.4360	1	3 56 59.275	26 40 4.07	4	9004	16689 S 3	VP	1214
12 5	15 10 12.3063	1	23 27 27.522	34 55 52.63	4	9008	21090 S 4	VP	1220
12 5	15 10 18.9739	1	2 19 57.295	8 3 28.92	4	9115	4120 S 7	VP	2070
12 5	15 10 19.4361	1	3 57 39.652	27 8 35.94	4	9004	16689 S 4	VP	1215
12 5	15 10 20.3069	1	23 26 39.525	35 23 21.78	4	9008	21090 S 5	VP	1221
12 5	15 10 26.9753	1	2 20 6.822	8 29 45.90	4	9115	4120 S 8	VP	1735
12 5	15 10 28.3370	1	23 25 51.053	35 50 47.41	4	9008	21090 S 6	VP	1222
12 5	15 10 34.9767	1	2 20 16.449	8 56 11.18	4	9115	4120 S 9	VP	1230
12 5	15 10 35.4360	1	3 59 2.679	28 5 36.25	4	9004	16689 S 6	VP	1216
12 5	15 10 36.3072	1	23 25 1.509	36 18 3.21	4	9008	21090 S 7	VP	1223
12 5	15 10 42.9786	1	2 20 26.397	9 22 43.56	4	9115	4120 S10	VP	1231
12 5	15 10 43.4359	1	3 59 45.370	28 34 10.14	4	9004	16689 S 7	VP	1217
12 5	15 10 44.3072	1	23 24 11.365	36 45 14.15	4	9008	21090 S 8	VP	1224
12 5	15 10 50.9801	1	2 20 36.371	9 49 26.63	4	9115	4120 S11	VP	2071
12 5	15 10 51.4358	1	4 0 28.532	29 2 42.24	4	9004	16689 S 8	VP	1218
12 5	15 10 52.3073	1	23 23 20.351	37 12 16.23	4	9008	21090 S 9	VP	1225
12 5	15 12 35.4503	1	4 11 1.602	35 11 11.91	4	9004	16690 S 4	AV	891
12 5	15 12 36.0386	1	2 23 4.830	15 52 50.43	4	9115	4121 S 3	AV	905
12 5	15 12 36.1781	1	23 10 59.426	42 53 30.00	4	9008	21091 S 4	AV	898
12 5	15 12 42.4503	1	4 11 56.320	35 39 16.05	4	9004	16690 S 5	AV	892
12 5	15 12 44.0401	1	2 23 17.355	42 21 27.22	4	9115	4121 S 4	AV	906
12 5	15 12 52.0417	1	2 23 30.577	16 52 21.68	4	9115	4121 S 5	AV	907
12 5	15 12 52.1784	1	23 8 51.168	43 44 11.92	4	9008	21091 S 6	AV	899
12 5	15 12 59.4505	1	4 13 48.617	36 35 17.19	4	9004	16690 S 7	AV	893
12 5	15 13 0.0433	1	2 23 43.647	17 19 18.17	4	9115	4121 S 6	AV	908
12 5	15 13 0.1782	1	23 7 45.312	44 9 16.84	4	9008	21091 S 7	AV	900
12 5	15 13 7.4503	1	4 14 46.149	37 3 9.52	4	9004	16690 S 8	AV	894
12 5	15 13 8.0451	1	2 23 57.055	17 48 19.54	4	9115	4121 S 7	AV	909

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 12 5	19 13 8.1784	1	23 6 38.597	44 34 14.65	4	9008	21091 S 8	AV	901
12 5	19 13 15.4504	1	4 15 44.795	37 31 1.70	4	9004	16690 S 9	AV	895
12 5	19 13 16.0465	1	2 24 10.730	18 17 36.95	4	9115	4121 S 8	AV	910
12 5	19 13 16.1787	1	23 5 30.402	44 59 8.82	4	9008	21091 S 9	AV	902
12 5	19 13 23.4506	1	4 16 44.519	37 58 48.85	4	9004	16690 S10	AV	896
12 5	19 13 24.0478	1	2 24 24.620	18 47 0.13	4	9115	4121 S 9	AV	911
12 5	19 13 24.1787	1	23 4 21.318	45 23 53.16	4	9008	21091 S10	AV	903
12 5	19 13 31.4506	1	4 17 44.750	38 26 30.97	4	9004	16690 S11	AV	897
12 5	19 13 32.1786	1	23 3 11.320	45 48 27.87	4	9008	21091 S11	AV	904
12 5	19 15 53.6992	1	2 29 38.204	28 22 44.70	4	9115	4122 S 3	LM	846
12 5	19 15 55.4324	1	4 39 20.540	46 29 50.24	4	9004	16691 S 3	LM	834
12 5	19 15 56.0998	1	22 38 32.394	52 43 14.09	4	9008	21092 S 3	LM	840
12 5	19 16 1.7008	1	2 29 58.579	28 54 54.68	4	9115	4122 S 4	LM	847
12 5	19 16 4.0959	1	22 36 56.507	53 4 37.40	4	9008	21092 S 4	LM	841
12 5	19 16 9.7024	1	2 30 18.815	29 27 10.69	4	9115	4122 S 5	LM	848
12 5	19 16 11.4324	1	4 42 12.072	47 21 15.86	4	9004	16691 S 5	LM	835
12 5	19 16 12.1001	1	22 35 18.902	53 25 50.36	4	9008	21092 S 5	LM	842
12 5	19 16 17.7039	1	2 30 40.194	29 59 34.96	4	9115	4122 S 6	LM	849
12 5	19 16 19.4324	1	4 43 40.346	47 46 41.71	4	9004	16691 S 6	LM	836
12 5	19 16 20.1001	1	22 33 39.932	53 46 52.39	4	9008	21092 S 6	LM	843
12 5	19 16 25.7053	1	2 31 1.513	30 32 5.24	4	9115	4122 S 7	LM	850
12 5	19 16 27.4323	1	4 45 10.205	48 12 3.92	4	9004	16691 S 7	LM	837
12 5	19 16 28.1003	1	22 31 59.578	54 7 41.93	4	9008	21092 S 7	LM	844
12 5	19 16 33.7069	1	2 31 23.610	31 4 49.62	4	9115	4122 S 8	LM	1731
12 5	19 16 35.4326	1	4 46 41.834	48 37 14.31	4	9004	16691 S 8	LM	838
12 5	19 16 41.7088	1	2 31 46.068	31 37 39.41	4	9115	4122 S 9	LM	852
12 5	19 16 43.4323	1	4 48 14.764	49 2 17.64	4	9004	16691 S 9	LM	1730
12 5	19 16 44.1002	1	22 28 33.283	54 48 47.42	4	9008	21092 S 9	LM	845
12 5	19 18 27.4338	1	5 11 14.946	54 11 40.21	4	9004	16692 S 1	LM	1101
12 5	19 18 27.4446	1	2 37 32.600	39 1 42.72	4	9115	4123 S 4	LM	1113
12 5	19 18 35.4335	1	5 13 14.716	54 34 7.39	4	9004	16692 S 2	LM	1102
12 5	19 18 35.4465	1	2 38 3.446	39 36 4.74	4	9115	4123 S 5	LM	1114
12 5	19 18 36.3691	1	22 1 4.032	59 13 1.03	4	9008	21093 S 5	YK	1108
12 5	19 18 43.4336	1	5 15 17.765	54 56 21.60	4	9004	16692 S 3	LM	1103
12 5	19 18 43.4483	1	2 38 34.912	40 10 26.03	4	9115	4123 S 6	LM	1115
12 5	19 18 44.3690	1	21 58 52.054	59 30 5.71	4	9008	21093 S 6	YK	1109
12 5	19 18 51.4336	1	5 17 22.938	55 18 16.60	4	9004	16692 S 4	LM	1104
12 5	19 18 51.4498	1	2 39 7.097	40 45 1.68	4	9115	4123 S 7	LM	1116
12 5	19 18 52.3692	1	21 56 38.037	59 46 58.05	4	9008	21093 S 7	YK	1110
12 5	19 18 59.4519	1	2 39 40.375	41 19 39.09	4	9115	4123 S 8	LM	1117
12 5	19 19 0.3693	1	21 54 21.522	60 3 35.28	4	9008	21093 S 8	YK	1111
12 5	19 19 7.4337	1	5 21 39.701	56 1 30.30	4	9004	16692 S 6	LM	1105
12 5	19 19 7.4536	1	2 40 14.206	41 54 23.10	4	9115	4123 S 9	LM	1118
12 5	19 19 8.3694	1	21 52 3.400	60 20 0.55	4	9008	21093 S 9	YK	1112
12 5	19 19 15.4339	1	5 23 51.854	56 22 44.45	4	9004	16692 S 7	LM	1106

Satellite 1963 30D

5 December - 6 December 1964

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964 12 5	19 19 15.4556	1	2 40 48.939	42 29 11.34	9115	4123 S10	LM	1119
12 5	19 19 23.4339	1	5 26 6.178	56 43 43.99	9004	16692 S 8	LM	1107
12 5	22 0 35.4290	1	0 34 8.850	45 28 18.62	9004	16697 S 3	YK	1524
12 5	22 0 35.9956	1	0 44 21.450	15 10 45.61	9115	4136 S 5	YK	2554
12 5	22 0 43.4291	1	0 33 22.989	46 2 51.66	9004	16697 S 4	YK	1525
12 5	22 0 43.9980	1	0 44 1.468	15 36 48.28	9115	4136 S 6	YK	1530
12 5	22 0 51.4290	1	0 32 35.972	46 37 13.23	9004	16697 S 5	YK	1526
12 5	22 0 51.9994	1	0 43 41.122	16 2 57.24	9115	4136 S 7	YK	1531
12 5	22 0 59.4291	1	0 31 47.823	47 11 30.80	9004	16697 S 6	YK	1527
12 5	22 1 0.0009	1	0 43 20.414	16 29 14.91	9115	4136 S 8	YK	1532
12 5	22 1 7.4293	1	0 30 58.905	47 45 40.76	9004	16697 S 7	YK	1528
12 5	22 1 8.0031	1	0 42 59.399	16 55 37.00	9115	4136 S 9	YK	1533
12 6	0 22 19.1006	1	2 27 24.567	16 39 22.18	9011	17297 S 9	SJ	609
12 6	0 22 19.4518	1	3 4 14.438	-37 22 18.26	9009	14897 S 7	SU	602
12 6	0 22 27.1004	1	2 27 13.195	17 8 42.45	9011	17297 S10	SJ	610
12 6	0 22 27.4518	1	3 3 55.072	-36 53 43.63	9009	14897 S 8	SU	603
12 6	0 22 35.1003	1	2 27 2.216	17 37 48.21	9011	17297 S11	SJ	611
12 6	0 22 35.4520	1	3 3 36.301	-36 24 58.17	9009	14897 S 9	SU	604
12 6	0 22 43.1004	1	2 26 51.304	18 6 43.67	9011	17297 S12	SJ	612
12 6	0 22 43.4519	1	3 3 17.935	-35 56 5.93	9009	14897 S10	SU	605
12 6	0 22 51.1003	1	2 26 40.621	18 35 24.41	9011	17297 S13	SJ	613
12 6	0 22 51.4519	1	3 2 59.850	-35 27 1.69	9009	14897 S11	SU	606
12 6	0 22 59.1002	1	2 26 30.164	19 3 52.54	9011	17297 S14	SJ	614
12 6	0 22 59.4522	1	3 2 42.007	-34 57 49.69	9009	14897 S12	SU	810
12 6	0 23 7.1004	1	2 26 19.762	19 32 11.28	9011	17297 S15	SJ	615
12 6	0 23 7.4521	1	3 2 24.514	-34 28 26.16	9009	14897 S13	SU	608
12 6	6 19 14.3997	1	23 29 21.367	-20 51 31.82	9001	19188 S13	VD	586
12 6	6 19 17.7416	1	3 19 9.733	43 50 6.06	9012	16173 S 5	VD	593
12 6	6 19 22.3996	1	23 28 49.673	21 17 1.02	9001	19188 S14	VD	587
12 6	6 19 25.7413	1	3 19 41.758	44 22 45.73	9012	16173 S 6	VD	2066
12 6	6 19 30.3998	1	23 28 17.666	21 42 22.14	9001	19188 S15	VD	588
12 6	6 19 33.7413	1	3 20 14.770	44 55 13.55	9012	16173 S 7	VD	594
12 6	6 19 38.3999	1	23 27 45.093	22 7 42.74	9001	19188 S16	VD	589
12 6	6 19 41.7411	1	3 20 48.043	45 27 32.61	9012	16173 S 8	VD	595
12 6	6 19 46.4000	1	23 27 11.907	22 33 3.53	9001	19188 S17	VD	590
12 6	6 19 54.4002	1	23 26 38.382	22 58 22.99	9001	19188 S18	VD	591
12 6	6 20 2.4302	1	23 26 4.429	23 23 42.16	9001	19188 S19	VD	592
12 6	9 6 53.4561	1	23 18 50.479	34 18 37.69	9012	16180 S16	VD	1060
12 6	9 7 1.4561	1	23 18 9.405	34 44 32.11	9012	16180 S17	VD	1061
12 6	9 7 17.4556	1	23 16 45.564	35 35 50.17	9012	16180 S19	YK	1062
12 6	9 7 25.4555	1	23 16 2.759	36 1 22.05	9012	16180 S20	YK	1063
12 6	9 7 33.4553	1	23 15 19.375	36 26 45.15	9012	16180 S21	YK	1064
12 6	9 7 41.4551	1	23 14 35.208	36 52 4.05	9012	16180 S22	YK	1065
12 6	9 7 49.4549	1	23 13 50.600	37 17 14.46	9012	16180 S23	YK	1066
12 6	23 5 55.3716	1	23 52 7.562	17 55 3.98	9004	16726 S 3	VD	2067

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.C) H M S	DECL. (1950.0) RMS D M S	STATION	FRAME NO.	MS	OBS. NO.
1964 12 6	23 5 55.4612	1	4 32 22.114	38 38 22.16	9009	14926 S 5	VD	856
12 6	23 6 3.3718	1	23 51 37.980	18 23 26.23	9004	16726 S 4	VD	2068
12 6	23 6 3.4610	1	4 33 3.897	39 1 34.45	9009	14926 S 6	VD	857
12 6	23 6 11.3717	1	23 51 7.715	18 51 47.35	9004	16726 S 5	VD	2556
12 6	23 6 11.4608	1	4 33 46.096	39 24 46.86	9009	14926 S 7	VD	858
12 6	23 6 19.3718	1	23 50 37.094	19 20 6.55	9004	16726 S 6	VD	2069
12 6	23 6 19.4609	1	4 34 29.402	39 47 51.55	9009	14926 S 8	VD	859
12 6	23 6 27.3719	1	23 50 6.107	19 48 30.00	9004	16726 S 7	VD	853
12 6	23 6 27.4608	1	4 35 13.062	40 10 49.01	9009	14926 S 9	VD	860
12 6	23 6 35.3720	1	23 49 34.591	20 16 49.64	9004	16726 S 8	VD	854
12 6	23 6 35.4608	1	4 35 57.520	40 33 43.34	9009	14926 S10	VD	861
12 6	23 6 43.3719	1	23 49 2.621	20 45 10.85	9004	16726 S 9	VD	855
12 6	23 6 43.4657	1	4 36 42.528	40 56 27.81	9009	14926 S11	VD	862
12 7	1 31 7.4333	1	1 10 17.274	-46 20 56.95	9009	14935 S 8	YK	1534
12 7	1 31 15.4335	1	1 10 16.880	-45 52 23.53	9009	14935 S 9	YK	1535
12 7	1 31 15.6096	1	1 37.752	10 51 18.81	9011	17328 S 6	VP	1541
12 7	1 31 23.4334	1	1 10 16.703	-45 23 40.22	9009	14935 S10	YK	1536
12 7	1 31 23.6098	1	1 1 40.830	11 23 20.31	9011	17328 S 7	VP	1542
12 7	1 31 31.4336	1	1 10 16.256	-44 54 43.00	9009	14935 S11	YK	1537
12 7	1 31 31.6096	1	1 1 43.600	11 55 5.18	9011	17328 S 8	VP	1543
12 7	1 31 38.6098	1	1 1 46.414	12 26 36.37	9011	17328 S 9	VP	1544
12 7	1 31 47.4338	1	1 10 14.914	-43 56 24.70	9009	14935 S13	YK	1538
12 7	1 31 47.6098	1	1 1 48.910	12 57 47.96	9011	17328 S10	VP	1545
12 7	1 31 55.4338	1	1 10 14.160	-43 26 56.52	9009	14935 S14	YK	1539
12 7	1 31 55.6099	1	1 1 51.494	13 28 46.93	9011	17328 S11	VP	1546
12 7	1 32 3.4336	1	1 10 13.281	-42 57 22.30	9009	14935 S15	YK	1540
12 7	1 32 3.6096	1	1 1 53.796	13 59 32.09	9011	17328 S12	VP	1547
12 7	4 43 6.4064	1	0 30 10.827	33 52 8.80	9012	19223 S 8	VD	1186
12 7	4 43 14.3001	1	4 33 28.204	35 0 30.50	9012	16192 S11	VD	1193
12 7	4 43 14.4064	1	0 29 36.494	34 24 59.46	9001	19223 S 9	VD	1187
12 7	4 43 22.4065	1	0 29 1.460	34 59 50.73	9001	19223 S10	VD	1188
12 7	4 43 30.3562	1	4 35 0.516	35 48 14.99	9012	16192 S12	VD	1194
12 7	4 43 30.4065	1	0 28 25.691	35 34 34.15	9001	19223 S11	VD	1189
12 7	4 43 38.4065	1	0 27 49.379	36 9 15.10	9001	19223 S12	VD	1190
12 7	4 43 46.3580	1	4 36 34.932	36 35 33.61	9012	16192 S13	VD	1195
12 7	4 43 46.4066	1	0 27 12.204	36 43 46.98	9011	19223 S13	VD	1191
12 7	4 43 54.4063	1	0 26 34.333	37 18 17.14	9001	19223 S14	VD	1192
12 7	4 44 2.3597	1	4 38 11.649	37 22 27.20	9012	16192 S14	VD	1736
12 8	5 52 20.3075	1	3 40 18.429	40 40 36.72	9012	16225 S 1	LM	9263
12 8	5 52 28.3076	1	3 40 55.414	41 11 48.54	9012	16225 S 2	LM	9264
12 8	5 52 34.5521	1	23 35 30.923	22 46 3.58	9001	19251 S 2	LM	9256
12 8	5 52 36.3073	1	3 41 33.428	41 42 51.61	9012	16225 S 3	LM	9265
12 8	5 52 42.5521	1	23 34 51.258	23 13 12.17	9012	16225 S 4	LM	9257
12 8	5 52 44.3073	1	3 42 12.074	42 13 49.14	9012	16225 S 4	LM	9266
12 8	5 52 50.5524	1	23 34 23.004	23 40 13.42	9001	19251 S 4	LM	9258

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 12 8	5 52 52.3071	1	3 42 51.371	42 44 34.66	4	9012	16225 S 5	LM	9267
12 8	5 52 58.5524	1	23 33 48.341	24 7 16.70	4	9001	19251 S 5	LM	9259
12 8	5 53 0.3070	1	3 43 31.730	43 15 18.43	4	9012	16225 S 6	LM	9268
12 8	5 53 6.5525	1	23 33 13.016	24 34 13.61	4	9001	19251 S 6	LM	9260
12 8	5 53 8.3072	1	3 44 12.944	43 45 56.00	4	9012	16225 S 7	LM	9269
12 8	5 53 14.5525	1	23 32 37.369	25 1 15.06	4	9001	19251 S 7	LM	9261
12 8	5 53 22.5524	1	23 32 1.126	25 28 11.03	4	9001	19251 S 8	LM	9262
12 8	5 55 22.5551	1	23 21 46.795	32 6 3.89	4	9001	19252 S 3	LM	12
12 8	5 55 30.5552	1	23 21 0.773	32 32 9.55	4	9001	19252 S 4	LM	13
12 8	5 55 38.5554	1	23 20 13.923	32 58 8.74	4	9001	19252 S 5	LM	14
12 8	5 55 40.3088	1	4 0 24.061	52 58 18.60	4	9012	16226 S 1	LM	18
12 8	5 55 46.5556	1	23 19 26.457	33 24 0.92	4	9001	19252 S 6	LM	15
12 8	5 55 48.3089	1	4 1 27.202	53 25 48.68	4	9012	16226 S 2	LM	19
12 8	5 55 54.5557	1	23 18 38.595	33 49 51.29	4	9001	19252 S 7	LM	795
12 8	5 55 56.3086	1	4 2 31.689	53 53 9.43	4	9012	16226 S 3	LM	20
12 8	5 56 2.5558	1	23 17 49.991	34 15 34.80	4	9001	19252 S 8	LM	16
12 8	5 56 4.3083	1	4 3 37.318	54 20 15.63	4	9012	16226 S 4	LM	21
12 8	5 56 10.5559	1	23 17 0.111	34 41 15.92	4	9001	19252 S 9	LM	17
12 8	5 56 12.3085	1	4 4 44.872	54 47 16.19	4	9012	16226 S 5	LM	22
12 8	5 56 20.3084	1	4 5 53.641	55 14 0.52	4	9012	16226 S 6	LM	23
12 8	5 56 28.3085	1	4 7 4.227	55 40 40.30	4	9012	16226 S 7	LM	24
12 8	8 44 19.5102	1	23 0 41.591	50 10 54.05	4	9012	16231 S 5	LM	9859
12 8	8 44 35.5103	1	22 58 17.563	50 56 11.60	4	9012	16231 S 7	LM	9860
12 8	8 44 51.5107	1	22 55 48.421	51 40 56.06	4	9012	16231 S 9	LM	9861
12 8	8 44 59.5106	1	22 54 32.562	52 2 58.76	4	9012	16231 S10	LM	9862
12 8	8 45 7.5107	1	22 53 14.981	52 24 53.39	4	9012	16231 S11	LM	9863
12 8	8 45 15.5106	1	22 51 55.868	52 46 40.20	4	9012	16231 S12	LM	9864
12 8	8 45 23.5106	1	22 50 35.935	53 8 11.91	4	9012	16231 S13	LM	9865
12 10	2 14 34.4844	1	0 8 8.777	8 13 45.48	4	9011	17383 S 5	VP	9667
12 10	2 14 35.4760	1	23 53 23.099	-41 30 40.00	4	9009	15013 S 6	VP	9661
12 10	2 14 42.4846	1	0 8 22.155	8 42 18.46	4	9011	17383 S 6	VP	9668
12 10	2 14 43.4762	1	23 53 40.719	-41 3 54.85	4	9009	15013 S 7	VP	9662
12 10	2 14 50.4846	1	0 8 35.444	9 10 44.73	4	9011	17383 S 7	VP	9669
12 10	2 14 51.4764	1	23 53 57.935	-40 37 3.96	4	9009	15013 S 8	VP	9663
12 10	2 15 6.4850	1	0 9 0.974	10 6 56.67	4	9011	17383 S 9	VP	9670
12 10	2 15 7.4765	1	23 54 31.003	-39 43 0.84	4	9009	15013 S10	VP	9664
12 10	2 15 14.4850	1	0 9 12.871	10 34 37.08	4	9011	17383 S10	VP	9671
12 10	2 15 15.4767	1	23 54 46.924	-39 15 46.02	4	9009	15013 S11	VP	9665
12 10	2 15 22.4852	1	0 9 24.723	11 2 14.26	4	9011	17383 S11	VP	9672
12 10	2 15 23.4767	1	23 55 2.798	-38 48 25.61	4	9009	15013 S12	VP	9666
12 11	1 2 43.3537	1	3 7 2.730	46 0 5.72	4	9010	16015 S 3	VD	9445
12 11	1 2 51.3538	1	3 7 36.979	46 33 46.22	4	9010	16015 S 4	VD	9446
12 11	1 2 58.5105	1	4 15 58.452	28 16 53.90	4	9001	19312 S 4	VD	356
12 11	1 2 59.3540	1	3 8 12.295	47 7 22.95	4	9010	16015 S 5	VD	9447
12 11	1 2 59.4484	1	1 47 13.716	64 56 8.81	4	9009	15036 S 4	PK	9439

DATE Y M D	TIME (G-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1964 12 11	1 3 6.5101	1	4 16 42.005	28 42 9.38	4	9001	19312 S 5	VD	9434
12 11	1 3 7.3539	1	3 8 48.360	47 40 55.78	4	9010	16015 S 6	VD	357
12 11	1 3 7.4486	1	1 47 3.161	65 21 35.83	4	9009	15036 S 5	PK	9440
12 11	1 3 14.5100	1	4 17 26.202	29 7 25.23	4	9001	19312 S 6	VD	9435
12 11	1 3 15.3539	1	3 9 25.365	48 14 13.27	4	9010	16015 S 7	VD	9448
12 11	1 3 15.4486	1	1 46 52.173	65 46 55.98	4	9009	15036 S 6	PK	9441
12 11	1 3 22.5098	1	4 18 10.949	29 32 37.27	4	9001	19312 S 7	VD	9436
12 11	1 3 23.4488	1	1 46 41.269	66 12 8.21	4	9009	15036 S 7	VD	9442
12 11	1 3 30.5095	1	4 18 56.352	29 57 50.56	4	9001	19312 S 8	VD	9437
12 11	1 3 31.3541	1	3 10 42.024	49 20 28.24	4	9010	16015 S 9	VD	9449
12 11	1 3 31.4485	1	1 46 29.237	66 37 7.74	4	9009	15036 S 8	VD	9443
12 11	1 3 38.5093	1	4 19 42.339	30 23 0.81	4	9001	19312 S 9	VD	9438
12 11	1 3 39.3543	1	3 11 21.873	49 53 24.77	4	9010	16015 S10	VD	9450
12 11	1 3 39.4488	1	1 46 18.210	67 2 2.06	4	9009	15036 S 9	VD	9444
12 11	1 3 42.3910	1	23 19 3.056	19 48 48.70	4	9001	19328 S 5	VD	9757
12 11	6 36 43.7404	1	2 14 43.611	49 19 47.29	4	9012	16248 S 2	VD	9763
12 11	6 36 50.3912	1	23 18 30.754	20 10 53.80	4	9001	19328 S 6	VD	9758
12 11	6 36 51.7405	1	2 14 49.942	49 53 18.20	4	9012	16248 S 3	VD	9764
12 11	6 36 58.3915	1	23 18 1.375	20 32 56.66	4	9001	19328 S 7	VD	9759
12 11	6 36 59.7402	1	2 14 56.075	50 26 39.43	4	9012	16248 S 4	VD	9765
12 11	6 37 6.3915	1	23 17 31.515	20 54 53.64	4	9001	19328 S 8	VD	9760
12 11	6 37 7.7405	1	2 15 3.042	50 59 48.18	4	9012	16248 S 5	VD	9766
12 11	6 37 14.3917	1	23 17 1.340	21 16 52.15	4	9001	19328 S 9	VD	9761
12 11	6 37 15.7404	1	2 15 9.710	51 32 53.75	4	9012	16248 S 6	VD	9767
12 11	6 37 22.3918	1	23 16 30.601	21 38 49.20	4	9001	19328 S10	VD	9762
12 11	6 37 23.7405	1	2 15 16.943	52 5 42.76	4	9012	16248 S 7	VD	9768
12 11	6 39 38.3905	1	23 6 41.695	27 47 27.06	4	9001	19329 S 5	VD	9873
12 11	6 39 46.3902	1	23 6 2.688	28 8 46.98	4	9001	19329 S 6	VD	9874
12 11	6 39 54.3905	1	23 5 23.283	28 30 7.04	4	9001	19329 S 7	VD	9875
12 11	6 40 2.3905	1	23 4 43.346	28 51 21.47	4	9001	19329 S 8	VD	358
12 11	6 40 10.3905	1	23 4 2.851	29 12 33.40	4	9001	19329 S 9	VD	9877
12 11	6 40 18.3907	1	23 3 21.957	29 33 45.07	4	9001	19329 S10	VD	9878
12 11	6 40 26.3908	1	23 2 40.589	29 54 49.87	4	9001	19329 S11	VD	9879
12 11	23 20 11.4471	1	23 44 21.624	7 40 16.20	4	9004	16769 S 3	VD	9922
12 11	23 20 19.3903	1	3 59 43.015	35 54 57.45	4	9009	15048 S 8	VD	9926
12 11	23 20 19.4475	1	23 44 1.256	8 4 34.72	4	9004	16769 S 4	VD	9923
12 11	23 20 23.3902	1	3 59 58.279	36 8 46.16	4	9009	15048 S 9	VD	9927
12 11	23 20 27.3901	1	4 0 13.824	36 22 40.05	4	9009	15048 S10	VD	9928
12 11	23 20 27.4475	1	23 43 40.693	8 28 51.25	4	9004	16769 S 5	VD	9924
12 11	23 20 31.3901	1	4 0 29.096	36 36 27.96	4	9009	15048 S11	VD	9929
12 11	23 20 35.3900	1	4 0 44.842	36 50 16.13	4	9009	15048 S12	VD	9930
12 11	23 20 35.4479	1	23 43 19.669	8 53 9.83	4	9004	16769 S 6	VD	9925
12 11	23 20 35.3900	1	4 1 0.693	37 4 3.18	4	9009	15048 S13	VD	365
12 11	23 23 6.7558	10	23 58 29.704	25 38 9.59	4	9115	4326 S 8	AV	471
12 11	23 33 7.4665	1	22 33 15.589	45 41 54.02	4	9004	16772 S 5	YK	466

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	GRS-NO.
1964 12 11	23 33 14.7570	1	23 57 53.489	26 0 14.82	4	9115	4326 S 9	AV	472
12 11	23 33 15.4665	1	22 31 53.971	46 2 8.51	4	9004	16772 S 6	YK	467
12 11	23 33 22.7583	1	23 57 16.473	26 22 21.37	4	9115	4326 S10	AV	473
12 11	23 33 23.4667	1	22 30 31.060	46 22 16.69	4	9004	16772 S 7	YK	800
12 11	23 33 36.7599	1	23 56 39.260	26 44 31.07	4	9115	4326 S11	AV	474
12 11	23 33 31.4669	1	22 29 7.537	46 42 12.36	4	9004	16772 S 8	YK	468
12 11	23 33 38.7622	1	23 56 1.490	27 6 43.62	4	9115	4326 S12	AV	475
12 11	23 33 39.4669	1	22 27 42.385	47 2 5.87	4	9004	16772 S 9	YK	469
12 11	23 33 46.7634	1	23 55 22.740	27 28 56.75	4	9115	4326 S13	AV	476
12 11	23 33 47.4669	1	22 26 15.991	47 21 48.10	4	9004	16772 S10	YK	470
12 13	C 23 47.4106	1	2 36 29.602	42 58 17.04	4	9007	16362 S 4	PG	355
12 13	C 24 3.4113	1	2 36 30.002	43 45 14.10	4	9007	16362 S 5	PG	9431
12 13	C 24 19.4110	1	2 36 30.706	44 31 38.38	4	9007	16362 S 6	PG	9432
12 13	C 24 19.4985	1	3 3 3.680	- 4 50 1.99	4	9010	16034 S 8	PG	9426
12 13	C 24 27.4985	1	3 3 8.591	- 4 19 4.11	4	9010	16034 S 9	PG	9427
12 13	C 24 35.4112	1	2 36 32.954	45 17 27.96	4	9007	16362 S 7	PG	796
12 13	C 24 35.4989	1	3 3 13.897	- 3 47 59.61	4	9010	16034 S10	PG	9428
12 13	C 24 43.4988	1	3 3 19.217	- 3 16 48.58	4	9010	16034 S11	PG	9429
12 13	C 37 17.1790	1	3 39 4.326	48 58 35.22	4	9010	16036 S 6	PK	9140
12 13	C 37 25.1792	1	3 39 58.374	49 29 28.90	4	9010	16036 S 7	PK	9141
12 13	C 37 31.5764	1	2 38 55.822	68 16 27.80	4	9009	15073 S 8	BA	9145
12 13	C 37 33.1794	1	3 40 53.752	50 0 11.12	4	9010	16036 S 8	PK	9142
12 13	C 37 39.5765	1	2 39 27.310	68 40 35.22	4	9009	15073 S 9	BA	9146
12 13	C 37 41.1794	1	3 41 50.058	50 30 40.56	4	9010	16036 S 9	PK	9143
12 13	C 37 47.5764	1	2 40 0.290	69 4 21.39	4	9009	15073 S10	BA	9147
12 13	C 37 49.1797	1	3 42 47.736	51 1 3.25	4	9010	16036 S10	PK	9144
12 13	C 37 55.5764	1	2 40 34.504	69 28 15.51	4	9009	15073 S11	BA	9148
12 15	5 39 31.6365	1	23 38 2.832	11 12 58.52	4	9001	19445 S 4	LL	3054
12 15	5 39 39.6365	1	23 37 40.809	11 38 8.28	4	9001	19445 S 5	LL	1175
12 15	5 39 47.6365	1	23 37 18.210	12 3 11.00	4	9001	19445 S 6	LL	2550
12 15	5 39 55.6367	1	23 36 54.999	12 28 25.57	4	9001	19445 S 7	LL	2551
12 15	5 40 2.6368	1	23 36 31.740	12 53 39.67	4	9001	19445 S 8	LL	1178
12 15	5 43 23.6380	1	23 24 39.743	23 20 52.03	4	9001	19446 S 6	AV	551
12 15	5 43 31.6383	1	23 24 5.375	23 45 42.78	4	9001	19446 S 7	AV	552
12 15	5 43 47.6382	1	23 22 56.077	24 35 17.74	4	9001	19446 S 9	AV	553
12 15	5 43 55.6384	1	23 22 20.171	25 0 0.14	4	9001	19446 S10	AV	554
12 15	5 44 3.6383	1	23 21 44.262	25 24 45.08	4	9001	19446 S11	AV	555
12 15	5 44 11.6382	1	23 21 7.500	25 49 24.36	4	9001	19446 S12	AV	556
12 15	5 47 7.6429	1	23 5 17.008	34 39 38.96	4	9001	19447 S 7	PK	9778
12 15	5 47 15.6428	1	23 4 25.996	35 3 3.35	4	9001	19447 S 8	PK	9779
12 15	5 47 23.6428	1	23 3 34.872	35 26 21.29	4	9001	19447 S 9	PK	9780
12 15	5 47 31.6429	1	23 2 42.850	35 49 38.15	4	9001	19447 S10	PK	9781
12 15	5 47 39.6428	1	23 1 50.096	36 12 44.66	4	9001	19447 S11	PK	9782
12 15	5 47 47.6428	1	23 0 56.275	36 35 47.50	4	9001	19447 S12	PK	9783
12 15	5 47 55.6428	1	23 0 2.021	36 58 47.40	4	9001	19447 S13	PK	9784

Satellite 1963 30D

15 December - 21 December 1964

DATE Y M D	TIME (A-11) H M S			RMS MS	R.A. (1950.0) H M S			DECL. (1950.0) RMS D M S			STATION	FRAME NO.	MS	OBS. NO.
1964 12 15	5 50	19.6421		1	22 41	22.319		43 36	27.42	4	9001	19448 S 4	BA	9792
12 15	5 50	27.6422		1	22 40	11.014		43 57	30.77	4	9001	19448 S 5	BA	9793
12 15	5 50	35.6422		1	22 38	58.729		44 18	31.00	4	9001	19448 S 6	AV	9794
12 15	5 50	43.6422		1	22 37	45.977		44 39	18.01	4	9001	19448 S 7	AV	9795
12 15	5 50	51.6423		1	22 36	31.668		45 0	5.10	4	9001	19448 S 8	AV	9796
12 15	5 50	59.6422		1	22 35	16.712		45 20	36.85	4	9001	19448 S 9	AV	9797
12 15	5 51	7.6423		1	22 34	C.795		45 41	2.03	4	9001	19448 S10	AV	9798
12 18	6 28	51.5609		1	1 30	44.800		57 16	20.95	4	9012	16317 S 2	LL	1036
12 18	6 28	55.5609		1	1 30	27.353		57 47	C.84	4	9012	16317 S 3	LL	1037
12 18	6 29	7.5611		1	1 30	8.814		58 17	26.65	4	9012	16317 S 4	LL	1038
12 18	6 29	15.5612		1	1 29	50.205		58 47	48.96	4	9012	16317 S 5	LL	1039
12 18	6 29	23.5613		1	1 29	31.241		59 17	56.54	4	9012	16317 S 6	LL	1040
12 18	6 29	31.5613		1	1 29	11.323		59 47	46.50	4	9012	16317 S 7	LL	1041
12 18	6 29	39.5614		1	1 28	51.010		60 17	43.61	4	9012	16317 S 8	LL	1042
12 18	6 31	15.5587		1	1 24	0.409		66 1	38.98	4	9012	16318 S 3	KV	2546
12 18	6 31	23.5589		1	1 23	31.326		66 29	12.12	4	9012	16318 S 4	KV	1784
12 18	6 31	31.5586		1	1 23	0.995		66 56	41.69	4	9012	16318 S 5	KV	1785
12 18	6 31	39.5587		1	1 22	30.123		67 23	45.79	4	9012	16318 S 6	KV	1786
12 18	6 31	47.5587		1	1 21	57.905		67 51	2.10	4	9012	16318 S 7	KV	1787
12 18	6 31	55.5590		1	1 21	24.959		68 17	53.73	4	9012	16318 S 8	KV	2547
12 18	6 32	3.5587		1	1 20	49.454		68 44	44.02	4	9012	16318 S 9	KV	1789
12 19	1 37	6.8489		1	0 5	44.864		5 54	21.85	4	9011	17493 S 3	AV	9644
12 19	1 37	7.2892		1	23 50	57.774		-42 57	46.16	4	9009	15175 S 2	AV	9640
12 19	1 37	14.8490		1	0 5	59.129		6 23	6.04	4	9011	17493 S 4	AV	9645
12 19	1 37	15.2893		1	23 51	16.631		-42 32	2.57	4	9009	15175 S 3	AV	9641
12 19	1 37	22.8495		1	0 6	13.092		6 51	34.00	4	9011	17493 S 5	AV	9646
12 19	1 37	23.2894		1	23 51	34.670		-42 6	9.59	4	9009	15175 S 4	AV	9642
12 19	1 37	30.8494		1	0 6	26.729		7 19	58.22	4	9011	17493 S 6	AV	9647
12 19	1 37	31.2897		1	23 51	52.633		-41 40	12.08	4	9009	15175 S 5	AV	9643
12 21	1 17	31.4488		1	1 19	30.057		-32 57	4.52	4	9010	16100 S 3	RO	5
12 21	1 17	31.4794		1	0 16	57.386		-18 8	37.81	4	9009	15217 S 3	RO	9998
12 21	1 17	35.4797		1	0 16	56.912		-17 52	6.67	4	9009	15217 S 4	RO	9999
12 21	1 17	35.4489		1	1 19	25.596		-32 31	17.72	4	9010	16100 S 4	RO	6
12 21	1 17	35.4796		1	0 16	56.235		-17 35	39.75	4	9009	15217 S 5	RO	1
12 21	1 17	43.4798		1	0 16	55.572		-17 19	9.46	4	9009	15217 S 6	RO	7
12 21	1 17	47.4485		1	1 19	21.491		-32 5	14.15	4	9010	16100 S 5	RO	2
12 21	1 17	47.4798		1	0 16	54.968		-17 2	36.56	4	9009	15217 S 7	RO	3
12 21	1 17	51.4797		1	0 16	53.989		-16 46	1.14	4	9009	15217 S 8	RO	8
12 21	1 17	55.4490		1	1 19	16.440		-31 39	2.19	4	9010	16100 S 6	RO	4
12 21	1 17	55.4799		1	0 16	53.541		-16 29	29.78	4	9009	15217 S 9	RO	9
12 21	1 18	2.4490		1	1 19	11.848		-31 12	48.55	4	9010	16100 S 7	RO	10
12 21	1 18	11.4490		1	1 19	7.327		-30 46	23.86	4	9010	16100 S 8	RO	11
12 21	1 18	19.4490		1	1 19	2.719		-30 19	46.95	4	9010	16100 S 9	RO	9221
12 21	1 22	51.4495		1	1 15	46.473		-13 50	11.19	4	9010	16101 S 6	RO	674
12 21	1 22	51.4809		1	0 13	11.816		4 35	3.75	4	9009	15218 S 4	RO	

Satellite 1963 30D

15 December - 24 December 1964

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1964	12 21	1 22 51.5871	3 0 17.373	-16 27 45.47	9001	19506 S 4	RO	667
	12 21	1 22 55.4809	0 13 6.664	4 52 16.88	9009	15218 S 5	RO	675
	12 21	1 22 59.4495	1 15 39.282	-13 18 27.01	9010	16101 S 7	RO	9222
	12 21	1 22 59.4806	0 13 1.456	5 9 33.89	9009	15218 S 6	RO	676
	12 21	1 22 59.5871	3 0 19.464	-16 2 25.98	9001	19506 S 5	RO	668
	12 21	1 23 3.4810	0 12 56.179	5 26 48.46	9009	15218 S 7	RO	677
	12 21	1 23 7.4495	1 15 32.285	-12 46 33.88	9010	16101 S 8	RO	9223
	12 21	1 23 7.4810	0 12 50.632	5 44 3.24	9009	15218 S 8	RO	678
	12 21	1 23 7.5869	3 0 22.032	-15 37 1.43	9001	19506 S 6	RO	669
	12 21	1 23 11.4810	0 12 45.086	6 1 17.24	9009	15218 S 9	RO	679
	12 21	1 23 15.4497	1 15 24.975	-12 14 35.54	9010	16101 S 9	RO	9224
	12 21	1 23 15.4810	0 12 39.412	6 18 31.66	9009	15218 S10	RO	680
	12 21	1 23 15.5868	3 0 24.725	-15 11 28.92	9001	19506 S 7	RO	670
	12 21	1 23 22.4498	1 15 17.955	-11 42 25.29	9010	16101 S10	RO	9225
	12 21	1 23 23.5870	3 0 27.581	-14 45 52.74	9001	19506 S 8	RO	671
	12 21	1 23 31.4499	1 15 10.550	-11 10 7.24	9010	16101 S11	RO	9226
	12 21	1 23 31.5870	0 12 30.638	-14 20 5.32	9001	19506 S 9	RO	672
	12 21	1 23 39.4499	1 15 3.049	-10 37 39.69	9010	16101 S12	RO	9227
	12 21	1 23 39.5869	3 0 33.869	-13 54 11.74	9001	19506 S10	RO	673
	12 21	1 28 3.5853	3 4 18.236	1 25 13.85	9001	19507 S 3	RO	9706
	12 21	1 28 11.2847	1 9 44.823	9 0 55.94	9010	16102 S 3	RO	9713
	12 21	1 28 11.5851	3 4 28.907	1 55 1.82	9001	19507 S 4	RO	9707
	12 21	1 28 19.2849	1 9 33.198	9 37 25.44	9010	16102 S 4	RO	9714
	12 21	1 28 19.5850	3 4 39.967	2 24 55.28	9001	19507 S 5	RO	9708
	12 21	1 28 27.2851	1 9 21.132	10 13 57.28	9010	16102 S 5	RO	9715
	12 21	1 28 27.5851	3 4 51.182	2 54 55.48	9001	19507 S 6	RO	9709
	12 21	1 28 35.2852	1 9 8.972	10 50 30.64	9010	16102 S 6	RO	9716
	12 21	1 28 35.5849	3 5 2.506	3 25 2.47	9001	19507 S 7	RO	9710
	12 21	1 28 42.2855	1 8 56.977	11 27 13.32	9010	16102 S 7	RO	9717
	12 21	1 28 43.5848	3 5 14.284	3 55 17.75	9001	19507 S 8	RO	9711
	12 21	1 28 51.5847	3 5 26.334	4 25 38.08	9001	19507 S 9	RO	9712
	12 22	16 46 35.4554	23 9 28.737	31 18 55.72	9006	15592 S 5	VP	362
	12 22	16 46 36.2441	2 47 25.470	7 35 11.51	9115	4491 S 2	VP	9893
	12 22	16 46 43.4554	23 8 45.791	31 42 44.12	9006	15592 S 6	VP	9887
	12 22	16 46 44.2449	2 47 43.220	7 58 17.38	9115	4491 S 3	VP	9894
	12 22	16 46 51.4557	23 8 2.086	32 6 24.86	9006	15592 S 7	VP	9888
	12 22	16 46 52.2458	2 48 1.383	8 21 30.01	9115	4491 S 4	VP	9895
	12 22	16 46 59.4559	23 7 17.825	32 30 8.41	9006	15592 S 8	VP	9889
	12 22	16 47 0.2475	2 48 19.740	8 44 50.60	9115	4491 S 5	VP	9896
	12 22	16 47 7.4564	23 6 32.756	32 53 41.37	9006	15592 S 9	VP	9890
	12 22	16 47 8.2483	2 48 38.553	9 8 17.31	9115	4491 S 6	VP	9897
	12 22	16 47 15.4568	23 5 47.421	33 17 13.11	9006	15592 S10	VP	9891
	12 22	16 47 16.2497	2 48 57.351	9 31 43.34	9115	4491 S 7	VP	363
	12 22	16 47 23.4570	23 5 1.357	33 40 42.65	9006	15592 S11	VP	9892
	12 22	16 47 24.2501	2 49 16.562	9 55 19.91	9115	4491 S 8	VP	9899

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A.(1950.G) H M S	DECL.(1950.G) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 12 24	2 15 7.3707	1	0 0 37.997	20 22 33.22	4	9010	16162 S 4	LL	9685
12 24	2 15 15.3708	1	0 0 11.180	20 53 53.24	4	9010	16162 S 5	LL	9686
12 24	2 15 15.5510	1	2 10 6.660	16 48 35.75	4	9001	19592 S 6	LL	9673
12 24	2 15 23.3710	1	23 59 43.980	21 25 13.38	4	9010	16162 S 6	LL	9687
12 24	2 15 23.5508	1	2 10 9.828	17 25 1.55	4	9001	19592 S 7	LL	9674
12 24	2 15 31.3711	1	23 59 16.230	21 56 28.31	4	9010	16162 S 7	LL	9688
12 24	2 15 31.5510	1	2 10 13.039	18 1 37.09	4	9001	19592 S 8	LL	9675
12 24	2 15 39.3713	1	23 58 48.175	22 27 44.12	4	9010	16162 S 8	LL	9689
12 24	2 15 39.4914	1	23 9 24.486	32 53 41.96	4	9009	15282 S10	LL	9680
12 24	2 15 39.5509	1	2 10 16.410	18 38 14.66	4	9001	19592 S 9	LL	9676
12 24	2 15 47.3713	1	23 58 19.591	22 58 55.41	4	9010	16162 S 9	LL	9690
12 24	2 15 47.4915	1	23 8 52.358	33 16 51.65	4	9009	15282 S11	LL	9681
12 24	2 15 47.5510	1	2 10 20.027	19 14 56.55	4	9001	19592 S10	LL	799
12 24	2 15 55.3713	1	23 57 50.344	23 30 6.63	4	9010	16162 S10	LL	9691
12 24	2 15 55.4915	1	23 8 20.021	33 39 53.41	4	9009	15282 S12	LL	9682
12 24	2 15 55.5511	1	2 10 23.432	19 51 45.72	4	9001	19592 S11	LL	9678
12 24	2 16 3.4915	1	23 7 47.006	34 2 51.46	4	9009	15282 S13	LL	9683
12 24	2 16 3.5510	1	2 10 27.124	20 28 38.65	4	9001	19592 S12	LL	9679
12 24	2 16 11.4912	1	23 7 13.175	34 25 44.56	4	9009	15282 S14	LL	9684
12 29	5 29 31.6339	1	22 46 30.910	35 17 56.60	4	9001	19711 S 1	LM	43
12 29	5 29 31.6524	1	2 13 14.018	71 8 21.73	4	9012	16437 S 2	LM	2048
12 29	5 29 39.6338	1	22 45 39.105	35 37 44.15	4	9001	19711 S 2	LM	44
12 29	5 29 35.6523	1	2 13 35.825	71 34 37.38	4	9012	16437 S 3	LM	797
12 29	5 29 47.6338	1	22 44 46.863	35 57 25.84	4	9001	19711 S 3	LM	45
12 29	5 29 47.6524	1	2 13 58.566	72 0 35.09	4	9012	16437 S 4	LM	798
12 29	5 29 55.6339	1	22 43 53.629	36 17 3.71	4	9001	19711 S 4	LM	46
12 29	5 29 55.6525	1	2 14 22.348	72 26 36.13	4	9012	16437 S 5	LM	51
12 29	5 30 3.6341	1	22 43 0.228	36 36 41.47	4	9001	19711 S 5	LM	47
12 29	5 30 11.6338	1	22 42 5.761	36 56 12.16	4	9001	19711 S 6	LM	48
12 29	5 30 11.6526	1	2 15 13.209	73 17 51.05	4	9012	16437 S 7	LM	53
12 29	5 30 19.6337	1	22 41 10.652	37 15 37.56	4	9001	19711 S 7	LM	49
12 29	5 30 15.6526	1	2 15 41.186	73 43 16.02	4	9012	16437 S 8	LM	54
12 30	C 26 35.4685	1	C 13 31.299	-34 6 10.49	4	9009	15331 S 7	VD	243
12 30	C 26 35.5534	1	0 21 35.171	16 31 14.21	4	9011	17596 S 6	VD	248
12 30	C 26 43.4685	1	0 13 37.864	-33 37 23.94	4	9009	15331 S 8	VD	244
12 30	C 26 43.5536	1	0 21 40.592	16 56 40.13	4	9011	17596 S 7	VD	249
12 30	C 26 51.4684	1	C 13 43.946	-33 8 32.86	4	9009	15331 S 9	VD	245
12 30	C 26 51.5536	1	0 21 45.721	17 21 59.08	4	9011	17596 S 8	VD	250
12 30	C 26 59.4684	1	0 13 49.578	-32 39 33.69	4	9009	15331 S10	VD	246
12 30	C 26 59.5534	1	0 21 51.019	17 47 6.65	4	9011	17596 S 9	VD	251
12 30	C 27 7.5534	1	0 21 55.954	18 12 7.37	4	9011	17596 S10	VD	252
12 30	C 27 15.4684	1	C 14 0.780	-31 41 6.53	4	9009	15331 S12	VD	247
12 30	C 27 15.5534	1	C 22 1.037	18 36 59.84	4	9011	17596 S11	VD	253

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 11 15	14 25 35.6165	1	8 25 21.666	- 3 11 26.38	4	9012	15871 S 5	GL	8276
11 15	14 25 39.6164	1	8 25 46.045	- 2 34 23.48	4	9012	15871 S 6	GL	8277
11 15	14 25 42.6163	1	8 26 10.158	- 1 57 14.77	4	9012	15871 S 7	GL	8278
11 15	14 25 47.6163	1	8 26 34.702	- 1 19 59.39	4	9012	15871 S 8	GL	8279
11 15	14 25 51.6163	1	8 26 59.276	- 0 42 32.82	4	9012	15871 S 9	GL	8280
11 15	14 25 55.6162	1	8 27 23.983	- 0 4 57.13	4	9012	15871 S10	GL	8281
11 15	14 25 59.6162	1	8 27 48.990	0 32 45.73	4	9012	15871 S11	GL	8282
11 15	14 40 11.6940	1	9 2 36.226	39 50 28.65	4	9012	15872 S 3	GL	8958
11 15	14 40 15.6939	1	9 3 21.948	40 23 47.18	4	9012	15872 S 4	GL	8959
11 15	14 40 19.6938	1	9 4 8.127	40 56 56.41	4	9012	15872 S 5	GL	8960
11 15	14 40 23.6940	1	9 4 54.884	41 29 52.78	4	9012	15872 S 6	GL	8961
11 15	14 40 27.6940	1	9 5 41.949	42 2 33.13	4	9012	15872 S 7	GL	8962
11 15	14 40 31.6939	1	9 6 29.721	42 35 2.98	4	9012	15872 S 8	GL	8963
11 15	14 40 35.6939	1	9 7 18.363	43 7 19.25	4	9012	15872 S 9	GL	8964
11 16	15 37 35.4275	1	5 48 18.968	- 3 33 14.38	4	9012	15894 S 2	DM	9732
11 16	15 37 39.4276	1	5 48 23.188	- 3 4 32.07	4	9012	15894 S 3	DM	9733
11 16	15 37 43.4277	1	5 48 27.370	- 2 35 42.09	4	9012	15894 S 4	DM	9734
11 16	15 37 47.4277	1	5 48 31.202	- 2 6 48.34	4	9012	15894 S 5	DM	9735
11 16	15 37 51.4277	1	5 48 34.890	- 1 37 45.20	4	9012	15894 S 6	DM	9736
11 16	15 37 55.4278	1	5 48 38.330	- 1 8 36.61	4	9012	15894 S 7	DM	9737
11 16	15 37 59.4278	1	5 48 41.799	- 0 39 21.13	4	9012	15894 S 8	DM	9738
11 17	14 44 43.7326	1	7 16 48.491	0 41 59.39	4	9012	15913 S 4	DM	8584
11 17	14 44 47.7327	1	7 17 4.363	1 18 47.15	4	9012	15913 S 5	DM	8585
11 17	14 44 51.7326	1	7 17 20.398	1 55 39.17	4	9012	15913 S 6	DM	8586
11 17	14 44 55.7327	1	7 17 36.346	2 32 40.85	4	9012	15913 S 7	DM	8587
11 17	14 44 59.7328	1	7 17 52.266	3 9 52.93	4	9012	15913 S 8	DM	8588
11 17	14 45 3.7328	1	7 18 8.219	3 47 4.25	4	9012	15913 S 9	PK	9365
11 17	14 45 7.7327	1	7 18 24.146	4 24 30.07	4	9012	15913 S10	PK	9366
11 17	14 49 31.6106	1	7 37 58.385	45 9 21.87	4	9012	15915 S 8	YK	8971
11 17	14 49 35.6105	1	7 38 20.263	45 42 26.67	4	9012	15915 S 9	YK	8972
11 17	14 49 39.6105	1	7 38 42.263	46 15 14.67	4	9012	15915 S10	YK	8973
11 17	14 49 43.6106	1	7 39 4.371	46 47 53.80	4	9012	15915 S11	YK	8974
11 17	14 49 47.6106	1	7 39 26.923	47 20 27.40	4	9012	15915 S12	YK	8975
11 17	14 49 51.6106	1	7 39 49.757	47 52 44.02	4	9012	15915 S13	YK	8976
11 17	14 49 55.6106	1	7 40 12.672	48 24 54.65	4	9012	15915 S14	YK	8977
11 25	15 25 47.6668	1	4 9 43.302	35 34 7.44	4	9012	15984 S 9	GL	9744
11 25	15 25 55.6665	1	4 9 42.700	36 14 23.30	4	9012	15984 S10	GL	9745
11 25	15 26 3.6661	1	4 7 40.209	36 54 25.40	4	9012	15984 S11	GL	9746
11 25	15 26 11.6658	1	4 6 36.093	37 34 17.27	4	9012	15984 S12	GL	9747
11 25	15 26 19.6654	1	4 5 30.110	38 13 45.66	4	9012	15984 S13	GL	9748
11 25	15 26 27.6659	1	4 4 22.147	38 53 3.55	4	9012	15984 S14	GL	9749
11 25	15 26 35.6645	1	4 3 11.915	39 32 14.05	4	9012	15984 S15	GL	9750

CAT# Y M D	TIME (A-1) H M S	RMS MS	R.A.-(1950-G) H M S	DECL.-(1950-G) D M S	RMS S	STATION	FRAME NO.	MS	OBS.NO.
1964 12 6	4 46 43.8842	1	7 47 11.122	16 34 56.66	4	9011	17313 S 6	PG	9626
12 6	4 46 51.4233	1	8 33 28.403	-0 50 20.19	4	9007	16277 S 2	PG	9633
12 6	4 46 51.8843	1	7 48 15.648	17 4 3.60	4	9011	17313 S 7	PG	9627
12 6	4 46 59.4234	1	8 34 33.635	-0 18 39.57	4	9007	16277 S 3	PG	9634
12 6	4 46 59.8841	1	7 49 20.165	17 33 8.11	4	9011	17313 S 8	PG	9628
12 6	4 47 7.4279	1	8 35 39.521	0 13 C.9C	4	9007	16277 S 4	PG	792
12 6	4 47 7.8842	1	7 50 25.257	18 2 10.38	4	9011	17313 S 9	PG	9629
12 6	4 47 15.4221	1	8 36 45.514	0 44 41.84	4	9007	16277 S 5	PG	9636
12 6	4 47 15.8841	1	7 51 30.778	18 31 5.81	4	9011	17313 S10	PG	9630
12 6	4 47 23.4215	1	8 37 52.076	1 16 25.92	4	9007	16277 S 6	PG	9637
12 6	4 47 23.884C	1	7 52 36.074	18 59 54.19	4	9011	17313 S11	PG	9631
12 6	4 47 31.4223	1	8 38 58.745	1 48 6.67	4	9007	16277 S 7	PG	9638
12 6	4 47 31.8841	1	7 53 42.011	19 28 43.07	4	9011	17313 S12	PG	9632
12 6	4 47 35.4215	1	8 40 5.909	2 19 50.62	4	9007	16277 S 8	PG	9639
12 8	4 21 38.916C	1	7 15 26.393	4 0 20.14	4	9011	17358 S 9	LL	9773
12 8	4 21 39.4274	1	7 59 57.044	-14 2 35.32	4	9007	16315 S 3	LL	9769
12 8	4 21 46.9158	1	7 16 24.373	4 29 43.24	4	9011	17358 S10	LL	9774
12 8	4 21 54.9156	1	7 17 22.360	4 59 8.71	4	9011	17358 S11	LL	9775
12 8	4 21 55.4267	1	8 1 52.074	-13 3 44.75	4	9007	16315 S 4	LL	9770
12 8	4 22 2.9156	1	7 18 20.519	5 28 29.74	4	9011	17358 S12	LL	9776
12 8	4 22 10.9153	1	7 19 18.856	5 57 52.15	4	9011	17358 S13	LL	9777
12 8	4 22 11.4246	1	8 3 47.812	-12 4 38.35	4	9007	16315 S 5	LL	9771
12 8	4 22 18.9152	1	7 20 17.496	6 27 14.72	4	9011	17358 S14	LL	351
12 8	4 22 27.4261	1	8 5 44.459	-11 5 8.66	4	9007	16315 S 6	LL	9772
12 8	4 22 27.4261	1	8 5 44.459	-11 5 8.66	4	9007	16315 S 6	LL	9772

NOTICE

This series of Special Reports was instituted under the supervision of Dr. F. L. Whipple, Director of the Astrophysical Observatory of the Smithsonian Institution, shortly after the launching of the first artificial earth satellite on October 4, 1957. Contributions usually come from the Staff of the Observatory.

First issued to ensure the immediate dissemination of data for satellite tracking, the Reports have continued to provide a rapid distribution of catalogs of satellite observations, orbital information, and preliminary results of data analysis prior to formal publication in the appropriate journals. The Reports are also used extensively for the rapid publication of preliminary or special results in other fields of astrophysics.

The Reports are regularly distributed to all institutions participating in the U. S. space research program and to individual scientists who request them from the Publications Division, Distribution Section, Smithsonian Astrophysical Observatory, Cambridge, Massachusetts 02138.