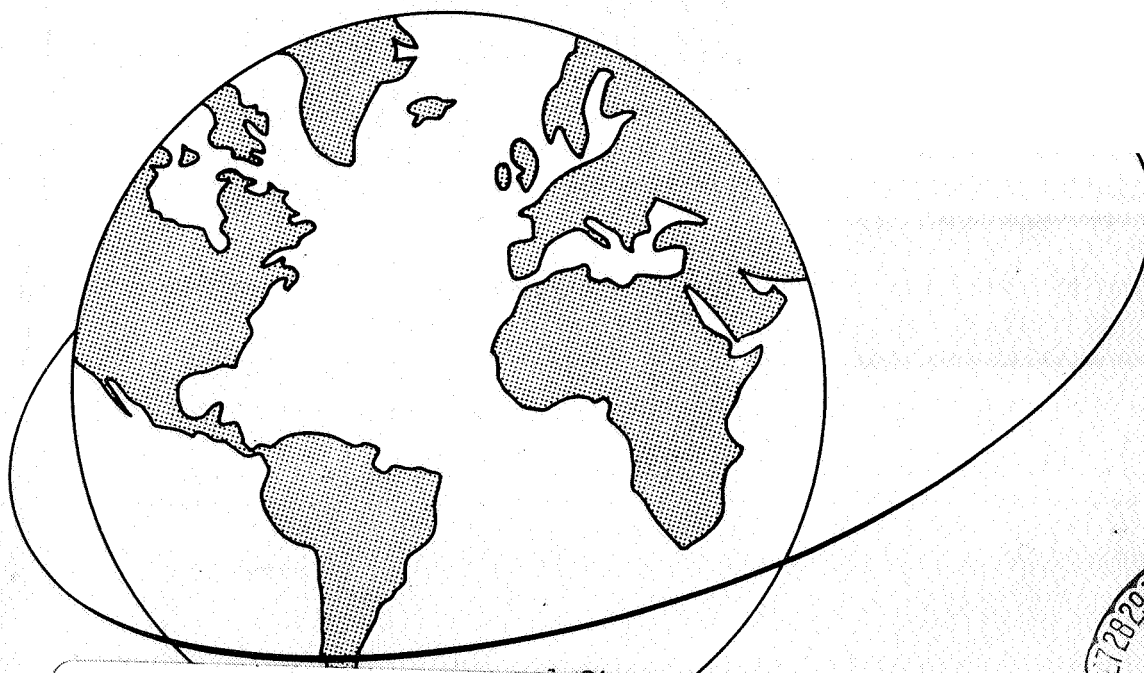
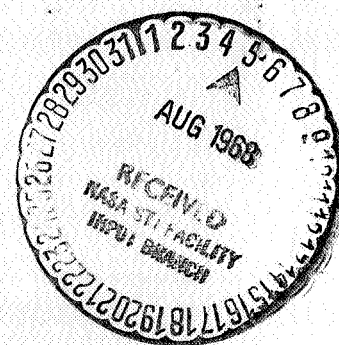


CATALOG OF PRECISELY REDUCED OBSERVATIONS



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Smithsonian Astrophysical Observatory
SPECIAL REPORT 275
Catalog P-17

Research in Space Science
SAO Special Report No. 275

CATALOG OF PRECISELY REDUCED OBSERVATIONS

No. P-17

Material prepared under the supervision of
Mrs. Beatrice Miller, Data Division

May 14, 1968

Smithsonian Institution
Astrophysical Observatory
Cambridge, Massachusetts 02138

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CATALOG OF PRECISELY REDUCED OBSERVATIONS

1. INTRODUCTION

This catalog is the 17th in the series of SAO Special Reports listing the positions of artificial satellites as obtained by the SAO Photoreduction Division from the precise reduction of the films taken at the 12 Baker-Nunn Camera Stations. These catalogs appear regularly and in the same form, each covering periods of 3 months of observations on satellites tracked by the Observatory. Each catalog includes all precisely reduced observations made during that period that have been checked and found to be without significant errors.

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 evaluate 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.

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

The present catalog includes 425 observations of Satellite 1959 α1 (Vanguard 2), 562 observations of Satellite 1959 η1 (Vanguard 3), 937 observations of Satellite 1960 ι2 (Echo 1 Rocket Body), 181 observations of Satellite 1961 ο1 (Transit 4A), 133 observations of Satellite 1961 ο2 (Injun), 2246 observations of Satellite 1961 αδ1 (Midas 4), 524 observations of Satellite 1962 αε1 (Telstar 1), 1041 observations of Satellite 1962 βμ1 (Anna 1B), 158 observations of Satellite 1962 βν1 (Al5 Relay), 612 observations of Satellite 1963 13A (Telstar 2), and 364 observations of Satellite 1963 26A (Geophysics Research).

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, Weston, Pardue, Bullis, and Zadunaisky, 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 ± 20 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:

For the Period

A. 1-WWV Emitted

1963 Jan. 01.0-1963 Nov. 01.0	$2.^S292725 + 0.001118458 (t - 38,030.0)$
1963 Nov. 01.0-1964 Jan. 01.0	$2.^S392725 + 0.001118458 (t - 38,030.0)$

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 (RMS) (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, in the fundamental system of the FK4 (Fricke and Kopff, 1963). All satellite positions after August 31, 1962, have been reduced with the SAO Star Catalog, which is in the FK4 system. The positions have not been corrected for parallactic refraction; correction will hardly ever exceed 2".

The sixth column gives the standard error (RMS) of the position expressed in seconds of arc, always 4 in this catalog.

The seventh column gives the station number.

The eighth column gives the film and frame number.

The ninth column gives the observation number assigned by SAO.

Table 1 gives the station location and number, and the x, y, z coordinates referenced to the SAO Standard Earth ellipsoid, $f = 1/298.25$ and $a = 6.378155$ 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 2 shows the values of the tesseral harmonics used. The data for the tables were obtained using DOI 3.7 and include the use of lunisolar perturbations and tesseral harmonics.

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. Peter Caliri, Data Division, and Mrs. Janice MacDonald and members of the Data Section, Photoreduction Division.

Table 1. Station coordinates

Station no.	X (Mm)	Y (Mm)	Z (Mm)	Stations
9001	-1.535759	-5.166995	3.401041	Organ Pass, New Mexico
9002	5.056126	2.716485	-2.775816	Olifantsfontein, South Africa
9003	-3.983750	3.743101	-3.275593	Woomera, Australia
9004	5.105593	-0.555232	3.769674	San Fernando, Spain
9005	-3.946697	3.366286	3.698843	Tokyo, Japan
9006	1.018205	5.471100	3.109614	Naini Tal, India
9007	1.942769	-5.804078	-1.796961	Arequipa, Peru
9008	3.376882	4.403985	3.136254	Shiraz, Iran
9009	2.251820	-5.816915	1.327164	Curaçao, Netherlands Antilles
9010	0.976282	-5.601389	2.880242	Jupiter, Florida
9011	2.280575	-4.914569	-3.355457	Villa Dolores, Argentina
9012	-5.466055	-2.404275	2.242170	Maui, Hawaii
9023	-3.977738	3.725115	-3.303060	Island Lagoon, Australia
9114	-1.264846	-3.466880	5.185464	Cold Lake, Canada
9115	3.121268	0.592616	5.512673	Oslo, Norway
9117	-6.007395	-1.111893	1.825725	Johnston Island

Table 2. Tesseral harmonics

The values of the coefficients are:

C	2	2	0.23790E-5	S	2	2	-0.13510E-5	C	3	1	0.19360E-5	S	3	1	0.26600E-6
C	3	2	0.73400E-6	S	3	2	-0.53800E-6	C	3	3	0.56100E-6	S	3	3	0.16200E-5
C	4	1	-0.57200E-6	S	4	1	-0.46900E-6	C	4	2	0.33000E-6	S	4	2	0.66100E-6
C	4	3	0.85100E-6	S	4	3	-0.19000E-6	C	4	4	-0.53000E-7	S	4	4	0.23000E-6
C	5	1	-0.79000E-7	S	5	1	-0.10300E-6	C	5	2	0.63100E-6	S	5	2	-0.23200E-6
C	5	3	-0.52000E-6	S	5	3	0.70000E-8	C	5	4	-0.26500E-6	S	5	4	0.64000E-7
C	5	5	0.15600E-6	S	5	5	-0.59200E-6	C	6	1	-0.47000E-7	S	6	1	-0.27000E-7
C	6	2	0.69000E-7	S	6	2	-0.36600E-6	C	6	3	-0.54000E-7	S	6	3	0.31000E-7
C	6	4	-0.44000E-7	S	6	4	-0.51800E-6	C	6	5	-0.31300E-6	S	6	5	-0.45800E-6
C	6	6	-0.40000E-7	S	6	6	-0.15500E-6	C	7	1	0.19700E-6	S	7	1	0.15600E-6
C	7	2	0.36400E-6	S	7	2	0.16300E-6	C	7	3	0.25000E-6	S	7	3	0.18000E-7
C	7	4	-0.15200E-6	S	7	4	-0.10200E-6	C	7	5	0.76000E-7	S	7	5	0.54000E-7
C	7	6	-0.20900E-6	S	7	6	0.63000E-7	C	7	7	0.55000E-7	S	7	7	0.96000E-7
C	8	1	-0.75000E-7	S	8	1	0.65000E-7	C	8	2	0.26000E-7	S	8	2	0.39000E-7
C	8	3	-0.37000E-7	S	8	3	0.40000E-8	C	8	4	-0.21200E-6	S	8	4	-0.12000E-7
C	8	5	-0.53000E-7	S	8	5	0.11800E-6	C	8	6	-0.17000E-7	S	8	6	0.31800E-6
C	8	7	-0.87000E-8	S	8	7	0.31000E-7	C	8	8	-0.24800E-6	S	8	8	0.10200E-6
C	9	1	0.11700E-6	S	9	1	0.12000E-7	C	9	2	-0.40000E-8	S	9	2	0.35000E-7
C	10	1	0.10500E-6	S	10	1	-0.12600E-6	C	10	2	-0.10500E-6	S	10	2	-0.42000E-7
C	10	3	-0.65000E-7	S	10	3	0.30000E-7	C	10	4	-0.74000E-7	S	10	4	-0.11100E-6
C	11	1	-0.53000E-7	S	11	1	0.15000E-7	C	12	1	-0.16300E-6	S	12	1	-0.71000E-7
C	12	2	-0.10300E-6	S	12	2	-0.51000E-8	C	12	12	-0.31000E-7	S	12	12	0.80000E-9
C	13	12	-0.59000E-7	S	13	12	0.50000E-7	C	13	13	-0.59000E-7	S	13	13	0.77000E-7
C	14	1	-0.15000E-7	S	14	1	0.53000E-8	C	14	11	0.20000E-9	S	14	11	-0.10000E-9
C	14	12	0.94000E-7	S	14	12	-0.28000E-7	C	14	14	-0.14000E-7	S	14	14	-0.30000E-8
C	15	9	-0.90000E-9	S	15	9	-0.18000E-8	C	15	12	-0.61900E-7	S	15	12	0.57800E-7
C	15	13	-0.58000E-7	S	15	13	-0.46000E-7	C	15	14	0.43000E-8	S	15	14	-0.21100E-7

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DATE	Y	M	D	TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	NRS.NO.
				H	M	S	MS	H	M	S	D	M	S			
1963	10	1	1	11	10	26.3981	1	7	45	24.169	5	30	10.32	9001	1882	04
	10	1	1	11	10	32.3981	1	7	54	42.848	6	2	54.11	9001	1882	07
	10	1	1	15	22	13.9176	1	23	52	27.427	77	58	47.13	9012	1449	03
	10	1	1	15	22	19.9177	1	23	55	2.351	79	52	26.71	9012	1449	06
	10	2	2	22	42	13.9780	1	8	47	57.116	33	5	3.99	9006	8752	05
	10	2	2	22	42	17.9783	1	8	53	42.393	32	35	42.02	9006	8752	07
	10	3	3	0	48	4.1237	1	8	4	36.110	42	38	11.15	9008	4396	03
	10	3	3	0	48	6.1238	1	8	9	30.502	42	17	49.64	9008	4396	04
	10	3	3	4	59	34.4837	1	6	42	8.981	-4	28	26.35	9004	738	08
	10	3	3	11	14	47.6300	1	7	45	52.402	18	49	40.85	9001	1921	03
	10	3	3	19	1	51.7718	1	21	21	21.524	-14	40	36.06	9002	4958	03
	10	4	4	11	44	59.2550	1	21	26	7.982	2	12	45.65	9003	6262	10
	10	4	4	11	45	11.2547	1	21	32	27.823	3	4	6.82	9003	6262	13
	10	4	4	17	59	48.5557	1	22	56	31.975	-13	22	50.79	9002	4982	03
	10	4	4	18	0	4.5556	1	23	4	.398	-12	11	18.96	9002	4982	05
	10	4	4	22	47	1.3286	10	9	36	13.796	39	8	40.29	9006	8776	07
	10	5	5	5	4	8.1777	1	6	56	32.227	0	29	53.39	9004	772	07
	10	5	5	5	4	10.1776	1	7	0	50.866	0	33	54.42	9004	772	08
	10	5	5	16	56	55.0670	1	23	25	21.334	-13	17	50.81	9002	5004	01
	10	5	5	16	57	3.0672	1	23	27	52.690	-12	49	43.40	9002	5004	02
	10	5	5	19	6	30.0544	1	21	19	51.049	0	14	17.83	9002	5010	04
	10	5	5	19	6	46.0541	1	21	28	24.395	1	31	5.24	9002	5010	08
	10	6	6	1	14	9.6141	1	18	1	15.934	-11	45	18.10	9011	834	03
	10	6	6	1	14	33.6139	1	18	8	27.888	-11	8	36.13	9011	834	07
	10	6	6	11	49	28.8190	1	21	20	20.667	13	28	38.56	9003	6303	04
	10	6	6	11	49	36.8188	1	21	24	1.307	14	1	42.81	9003	6303	06
	10	6	6	18	5	59.0211	1	23	27	2.440	5	35	24.03	9002	5034	02
	10	6	6	18	6	7.0208	1	23	30	14.497	6	5	24.01	9002	5034	03
	10	6	6	22	51	1.6771	1	9	11	44.624	51	34	36.44	9006	8807	06
	10	6	6	22	51	5.6772	1	9	18	53.494	50	14	52.24	9006	8807	08
	10	7	7	0	10	25.4685	1	18	10	33.091	-17	21	43.21	9011	853	05
	10	7	7	0	10	49.4680	1	18	19	27.261	-16	47	54.50	9011	853	08
	10	7	7	5	8	20.7566	1	6	19	24.828	-0	2	59.59	9004	807	05
	10	7	7	5	8	22.7566	1	6	24	15.274	-0	4	1.35	9004	807	06
	10	7	7	16	58	17.7174	10	22	12	36.392	-14	54	33.44	9002	5060	07
	10	7	7	16	58	33.7177	10	22	18	43.756	-13	56	3.93	9002	5060	09
	10	7	7	19	11	10.4528	10	21	15	19.919	14	7	58.53	9002	5067	11
	10	8	8	1	18	48.8098	1	18	19	57.933	-4	2	9.67	9011	875	07
	10	8	8	1	18	56.8099	1	18	22	10.706	-3	44	56.02	9011	875	08
	10	8	8	4	6	25.6035	1	8	40	57.446	-0	17	17.53	9004	820	03
	10	8	8	4	6	37.6036	1	8	52	8.929	-0	17	55.93	9004	820	06
	10	8	8	11	53	39.6159	1	21	4	34.119	22	6	29.73	9003	6337	06
	10	8	8	11	53	51.6158	1	21	9	23.197	22	52	58.99	9003	6337	09
	10	9	9	0	14	33.5576	1	18	26	45.010	-40	31	15.92	9007	507	06
	10	9	9	1	1	47.6768	1	8	58	25.229	50	6	42.36	9008	4502	01

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.	CRS. NO.
1963 10 9	5 13	21.2150	7 22 57.231	- 6 57 37.58	4	9004	846	05
10 9	10 53	9.5568	22 49 1.447	25 26 43.29	4	9003	6358	04
10 9	10 53	17.5567	22 51 59.348	25 47 56.81	4	9003	6358	05
10 10	1 23	37.0890	18 25 57.312	-20 24 40.33	4	9007	520	02
10 10	1 23	45.0888	18 28 27.439	-20 9 42.88	4	9007	520	03
10 10	4 10	41.8049	8 29 20.053	- 2 40 9.66	4	9004	858	01
10 10	14 37	45.8338	13 25 23.812	81 13 34.20	4	9012	1502	01
10 10	14 37	49.8339	13 10 32.339	80 10 49.82	4	9012	1502	03
10 12	4 15	42.4345	8 52 35.219	- 9 24 44.63	4	9004	889	03
10 12	14 42	59.7277	11 40 34.647	69 32 45.73	4	9012	1539	08
10 12	18 53	2.3505	6 51 51.221	-10 20 21.03	4	9005	9002	03
10 13	5 22	4.7767	6 22 3.521	-26 5 13.19	4	9004	914	02
10 13	5 22	12.7764	6 35 52.988	-26 35 11.44	4	9004	914	04
10 13	11 37	56.6863	8 22 9.585	- 6 20 42.18	4	9001	2099	08
10 14	5 46	46.9320	22 13 10.476	-45 23 53.24	4	9012	1564	05
10 14	14 47	57.3406	10 51 42.148	58 23 .56	4	9012	1577	09
10 15	0 27	37.0492	18 35 14.604	- 5 52 53.31	4	9007	575	02
10 15	0 28	9.0488	18 44 38.289	- 4 18 59.41	4	9007	575	06
10 15	0 33	16.9339	20 1 51.229	-38 51 32.24	4	9009	9257	01
10 15	1 15	47.4089	7 51 51.291	- 8 51 10.59	4	9008	4598	07
10 15	23 35	19.2076	23 10 4.463	25 32 22.91	4	9007	592	01
10 17	0 32	45.1005	18 43 36.645	8 9 5.80	4	9007	614	03
10 17	1 20	1.0640	6 26 51.634	-26 54 48.97	4	9008	4636	01
10 17	1 20	7.0640	6 38 28.291	-27 39 49.69	4	9008	4636	04
10 18	5 52	53.4590	20 40 14.027	-33 41 48.11	4	9012	1625	01
10 18	5 53	1.4590	20 42 54.076	-33 26 43.17	4	9012	1625	03
10 18	23 18	28.3568	6 20 52.376	-35 11 49.82	4	9006	8984	05
10 18	23 18	32.3568	6 27 48.097	-35 36 21.37	4	9006	8984	07
10 19	0 42	47.6009	21 14 8.933	-33 12 .06	4	9010	1271	06
10 19	0 42	55.6006	21 16 44.991	-32 57 .97	4	9010	1271	07
10 20	14 21	3.0008	21 1 7.096	-26 10 42.14	4	9006	9011	04
10 21	19 37	20.2010	21 48 44.689	-25 33 6.59	4	9004	1070	06
10 22	6 0	47.4545	19 53 13.795	-12 38 33.71	4	9012	1635	04
10 22	6 0	51.4546	19 54 23.251	-12 28 52.09	4	9012	1635	05
10 22	14 24	7.0345	20 24 48.559	-18 33 1.88	4	9006	9040	01
10 22	14 24	23.0346	20 29 29.502	-18 2 56.70	4	9006	9040	03
10 22	15 6	33.4026	5 58 10.159	-43 27 54.49	4	9012	1642	04
10 22	15 6	35.4026	6 1 52.319	-43 46 56.43	4	9012	1642	05
10 23	0 49	27.3925	20 8 28.569	-17 11 58.26	4	9010	1314	07
10 23	0 49	59.3929	20 17 43.606	-16 6 48.66	4	9010	1314	11
10 24	1 53	59.8959	21 4 38.689	-19 27 40.75	4	9001	2246	03
10 24	1 54	23.8956	21 12 .616	-18 39 3.66	4	9001	2246	06
10 25	15 36	16.4368	19 40 32.600	3 52 43.16	4	9006	9074	06
10 26	1 57	57.1100	20 49 16.434	-10 33 29.40	4	9001	2272	06
10 26	6 8	50.1801	19 18 16.788	9 11 47.40	4	9012	1667	03

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.	NRS.NO.
1963 10 26	6 8 54.1801	1	19 19 17.725	9 23 41.81	4	9012	1667	04
10 27	5 4 42.5450	1	19 48 26.131	5 46 1.21	4	9012	1681	02
10 27	13 28 26.1590	10	20 27 .112	- 1 36 21.80	4	9006	9087	04
10 27	15 34 5.2070	1	20 4 16.634	- 0 56 32.76	4	9008	4809	05
10 27	15 34 9.2068	1	20 5 28.416	- 0 47 6.34	4	9008	4809	06
10 27	23 55 10.1607	1	19 6 7.253	29 30 17.59	4	9009	9355	05
10 27	23 55 22.1608	1	19 9 29.239	30 12 53.57	4	9009	9355	08
10 28	2 1 11.1477	1	20 22 25.006	- 2 49 3.88	4	9001	2315	05
10 28	2 1 27.1477	1	20 27 23.014	- 2 14 8.66	4	9001	2315	07
10 29	3 8 49.8168	1	19 44 56.189	7 26 59.24	4	9001	2327	03
10 29	3 9 5.8170	1	19 49 9.803	8 1 23.18	4	9001	2327	04
10 29	13 31 38.8478	1	19 59 36.188	6 21 41.11	4	9006	9126	03
10 29	15 38 48.9220	1	20 6 5.808	10 21 43.40	4	9008	4843	06
10 29	15 38 56.9220	1	20 8 40.652	10 41 55.70	4	9008	4843	07
10 29	23 57 45.5585	1	19 57 58.573	10 41 39.95	4	9010	1420	05
10 29	23 58 17.5591	1	20 8 36.026	12 7 50.44	4	9010	1420	09
10 30	6 17 9.9137	1	18 59 19.150	26 37 22.71	4	9012	1715	03
10 30	6 17 29.9139	1	19 4 14.578	27 38 47.75	4	9012	1715	08
10 31	5 12 35.6281	1	19 15 44.077	25 41 15.52	4	9012	1728	03
10 31	5 12 47.6283	1	19 19 30.038	26 18 35.51	4	9012	1728	06
10 31	13 36 13.2937	1	20 1 25.432	16 51 22.55	4	9006	9170	04
10 31	13 36 21.2940	1	20 4 8.333	17 11 37.63	4	9006	9170	05
11 1	0 1 59.0548	1	19 52 20.006	20 34 54.94	4	9010	1448	07
11 1	0 2 7.0546	1	19 55 5.798	20 56 22.89	4	9010	1448	08
11 1	6 21 46.0307	1	19 1 55.043	34 11 19.97	4	9012	1744	04
11 1	6 21 54.0307	1	19 3 59.694	34 35 7.33	4	9012	1744	06
11 1	9 15 12.8529	1	7 26 26.964	8 20 24.18	4	9007	850	03
11 1	9 15 14.8528	1	7 31 29.725	7 37 57.77	4	9007	850	04
11 2	13 39 53.1669	1	19 49 2.095	23 40 1.35	4	9006	9199	04
11 2	13 40 25.1678	1	20 0 16.297	24 58 2.11	4	9006	9199	08
11 2	15 51 37.7195	1	19 23 3.058	23 55 37.58	4	9006	9204	04
11 2	15 52 1.7199	1	19 28 16.335	24 39 26.45	4	9006	9204	07
11 3	0 4 2.3103	1	19 7 33.878	23 14 42.84	4	9010	1472	06
11 3	0 4 10.3104	1	19 9 59.424	23 35 28.71	4	9010	1472	07
11 3	14 44 54.9144	1	21 20 42.605	29 8 44.79	4	9008	4883	04
11 3	14 44 58.9151	1	21 22 29.179	29 14 54.52	4	9008	4883	05
11 3	14 47 32.6954	1	19 22 37.347	26 36 36.10	4	9006	9224	05
11 3	14 47 48.6958	1	19 27 .706	27 11 12.42	4	9006	9224	07
11 3	23 6 16.1408	1	20 33 10.184	58 16 7.17	4	9009	9420	06
11 4	1 16 17.7940	1	23 33 8.844	27 4 54.53	4	9001	2396	07
11 4	5 21 7.1447	1	19 10 1.890	40 34 59.00	4	9012	1779	02
11 4	5 21 27.1447	1	19 17 3.418	41 30 59.34	4	9012	1779	07
11 4	13 42 31.0688	1	19 19 53.952	26 29 56.55	4	9006	9245	04
11 4	13 43 3.0694	1	19 30 17.205	27 43 39.88	4	9006	9245	08
11 4	15 56 .2117	1	19 35 8.438	26 33 47.91	4	9006	9249	05

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.	SRS.NO.
1963 11 4	15 56 16.2118	1	19 38 53.930	26 58 12.75	4	9006	9249	07 8698
11 5	2 16 8.9786	1	19 42 41.226	24 39 .84	4	9001	2421	03 1578
11 5	2 16 40.9785	1	19 53 35.368	25 41 12.36	4	9001	2421	07 1579
11 5	14 47 2.6964	1	20 33 52.787	32 6 36.63	4	9008	4897	03 2246
11 5	14 47 26.6971	1	20 44 24.380	32 46 47.87	4	9008	4897	06 2247
11 5	16 57 25.4553	1	19 21 36.729	27 48 33.04	4	9008	4904	04 3659
11 5	16 57 57.4556	1	19 29 58.941	28 42 56.33	4	9008	4904	08 2249
11 6	1 17 4.1050	1	22 18 10.947	30 36 3.85	4	9001	2440	03 1580
11 6	1 17 28.1049	1	22 29 4.683	30 41 10.36	4	9001	2440	06 1581
11 6	2 4 42.7001	1	4 32 48.509	28 11 26.85	4	9002	5566	06 6712
11 6	5 26 7.9108	1	19 32 30.691	47 11 1.88	4	9012	1816	03 8601
11 6	5 26 39.9112	1	19 45 56.344	48 27 24.63	4	9012	1816	07 8602
11 6	18 51 52.0662	1	10 35 11.511	11 45 30.68	4	9003	6871	05 7877
11 6	18 51 54.0662	1	10 37 31.319	11 26 56.06	4	9003	6871	06 7878
11 7	0 13 52.8661	1	19 44 28.905	38 5 5.35	4	9010	1494	04 2029
11 7	0 14 .8667	1	19 47 40.195	38 21 23.86	4	9010	1494	05 2030
11 7	2 20 8.5198	1	19 47 13.949	28 17 44.99	4	9001	2467	03 2446
11 7	2 21 12.5197	1	20 10 36.325	29 59 10.74	4	9001	2467	11 1582
11 7	2 27 1.5236	1	19 50 .082	31 49 .05	4	9010	1500	08 2031
11 7	2 27 17.5238	1	19 54 20.171	32 9 44.90	4	9010	1500	09 2032
11 7	14 55 16.1297	1	19 31 6.460	30 40 24.39	4	9006	9308	04 8699
11 7	14 55 48.1303	1	19 40 32.963	31 28 7.63	4	9006	9308	08 8700
11 7	19 1 39.9035	1	20 17 15.125	22 54 32.59	4	9004	1219	04 9724
11 7	19 1 55.9034	1	20 23 20.867	23 13 27.91	4	9004	1219	06 9725
11 8	1 21 49.4289	1	19 31 5.369	35 22 24.66	4	9010	1520	06 2033
11 8	1 21 57.4291	1	19 33 35.601	35 35 42.55	4	9010	1520	07 2034
11 8	9 40 10.3006	1	20 6 31.168	24 43 9.78	4	9005	9127	08 9740
11 8	15 59 13.9154	1	20 18 4.955	35 58 35.52	4	9008	4928	08 2250
11 8	20 10 6.9450	1	20 18 9.523	22 53 55.00	4	9004	1241	03 9726
11 8	20 10 30.9454	1	20 26 28.565	23 10 8.81	4	9004	1241	06 9727
11 9	0 17 56.3164	1	19 52 59.685	40 23 19.73	4	9010	1540	04 2035
11 9	0 18 4.3178	1	19 56 19.816	40 36 11.75	4	9010	1540	05 2422
11 9	12 50 15.8415	1	21 42 51.498	39 39 49.88	4	9006	9354	04 8701
11 9	12 50 39.8423	1	21 54 45.344	39 37 47.79	4	9006	9354	07 8702
11 10	1 20 11.6010	1	20 23 42.511	32 43 8.88	4	9001	2490	04 1583
11 10	1 20 35.6002	1	20 34 14.684	33 4 25.63	4	9001	2490	07 1584
11 10	8 30 .6606	1	2 49 28.556	-69 19 57.19	4	9007	998	04 708
11 10	8 30 2.6604	1	2 51 41.103	-69 57 25.48	4	9007	998	05 402
11 10	9 44 11.3676	10	20 16 56.946	25 42 19.77	4	9005	9151	06 9741
11 10	9 44 27.3680	10	20 23 .681	25 52 36.42	4	9005	9151	08 9742
11 10	13 54 12.1319	1	19 30 37.102	34 13 19.76	4	9006	9382	04 8703
11 10	13 54 44.1322	1	19 42 9.097	34 54 29.04	4	9006	9382	08 8704
11 10	16 2 20.0853	1	20 8 37.122	34 21 23.73	4	9008	4957	06 2251
11 10	16 2 36.0854	1	20 14 45.507	34 35 24.01	4	9008	4957	08 2252
11 10	20 13 26.0099	1	20 16 13.788	21 45 20.66	4	9004	1249	03 9728

DATE			TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	ORS.NO.	
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S				
1963	11	10	20	13	42.0100	1	20	21	32.563	21	49	46.52	4	9004	1249	05	9729
	11	11	1	12	27.4865	1	7	46	34.693	-21	22	7.37	4	9002	5610	07	6713
	11	11	1	12	29.4864	1	7	51	20.321	-21	40	25.17	4	9002	5610	08	6714
	11	11	2	28	50.0504	1	20	22	42.205	30	17	11.14	4	9001	2522	06	1585
	11	11	2	28	58.0498	1	20	25	48.053	30	21	27.99	4	9001	2522	07	1586
	11	11	4	39	33.4380	1	1	11	39.114	40	46	9.53	4	9012	1832	06	8603
	11	11	4	39	37.4380	1	1	12	55.444	40	35	37.61	4	9012	1832	07	8604
	11	11	7	28	7.7287	1	10	24	22.932	-59	49	24.87	4	9007	1010	04	403
	11	11	7	28	23.7284	1	10	48	13.868	-57	42	46.64	4	9007	1010	08	404
	11	11	7	29	45.3700	1	8	53	29.413	6	48	58.59	4	9011	1287	17	6168
	11	11	12	50	50.0213	10	20	13	26.401	38	48	12.89	4	9006	9407	05	8705
	11	11	12	51	6.0208	10	20	20	52.399	39	1	27.58	4	9006	9407	07	8706
11	12	1	24	16.1033	1	20	36	6.873	33	17	23.49	4	9001	2537	03	1587	
11	12	1	24	48.1037	1	20	50	24.662	33	26	40.09	4	9001	2537	07	1588	
11	12	2	20	45.2051	1	6	45	12.346	-70	9	19.28	4	9002	5620	07	6715	
11	12	5	38	59.8890	1	20	23	49.818	49	26	22.94	4	9012	1861	02	8605	
11	12	5	39	19.8894	1	20	33	24.301	49	42	47.84	4	9012	1861	07	8606	
11	12	13	59	35.7927	1	20	14	4.943	34	14	57.11	4	9006	9430	03	8707	
11	12	14	0	15.7936	1	20	30	5.432	34	31	14.91	4	9006	9430	08	8708	
11	12	16	6	39.4472	1	20	28	33.926	32	1	8.14	4	9008	4978	04	2253	
11	12	16	7	3.4475	1	20	37	49.103	32	4	59.47	4	9008	4978	07	2254	
11	12	20	17	56.6876	1	20	38	42.439	19	5	3.37	4	9004	1258	04	9730	
11	12	20	18	20.6878	1	20	46	44.343	18	55	25.49	4	9004	1258	07	9731	
11	13	2	32	38.6983	1	20	30	31.531	27	37	12.57	4	9001	2564	04	1589	
11	13	2	33	2.6984	1	20	39	34.991	27	35	42.06	4	9001	2564	07	1590	
11	13	4	42	20.9034	1	0	45	50.456	40	20	18.60	4	9012	1868	03	8607	
11	13	4	42	36.9036	1	0	51	14.464	39	36	21.32	4	9012	1868	05	8608	
11	13	6	45	20.3933	1	19	42	11.654	37	33	37.07	4	9012	1879	03	8609	
11	13	6	46	.3930	1	19	54	18.954	37	59	11.10	4	9012	1879	08	8610	
11	13	7	32	3.7292	1	9	14	19.929	-77	1	55.96	4	9007	1045	02	405	
11	13	7	32	7.7301	1	9	30	53.937	-76	33	3.16	4	9007	1045	03	406	
11	13	7	33	29.3397	1	7	20	38.098	-5	28	1.20	4	9011	1326	05	6169	
11	13	8	47	19.3390	1	22	12	6.666	25	6	9.14	4	9005	9160	07	750	
11	13	12	55	34.7878	1	20	45	17.047	38	23	20.61	4	9006	9453	03	8258	
11	13	12	55	50.7881	1	20	52	51.851	38	22	56.50	4	9006	9453	05	8259	
11	13	15	2	45.0177	1	21	0	33.024	36	30	6.38	4	9008	4994	06	2255	
11	13	17	58	44.3030	1	4	39	23.499	-1	22	30.18	4	9003	7021	08	9350	
11	13	17	58	48.3029	1	4	44	37.471	-1	50	25.58	4	9003	7021	10	7880	
11	13	23	30	23.9433	1	0	31	53.688	28	43	46.99	4	9010	1567	04	2039	
11	13	23	30	39.9435	1	0	36	54.078	28	3	22.13	4	9010	1567	06	2040	
11	14	1	35	9.0402	1	20	35	47.062	28	35	31.99	4	9010	1578	05	2423	
11	14	1	35	25.0404	1	20	41	10.516	28	30	24.78	4	9010	1578	06	2038	
11	14	14	4	48.6376	1	20	54	23.971	30	10	2.04	4	9006	9469	04	8260	
11	14	14	5	4.6381	1	21	0	46.528	30	1	41.30	4	9006	9469	06	8261	
11	14	16	10	28.9930	1	20	36	19.995	27	29	28.15	4	9008	5020	04	4847	

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.	SRS. NO.
1963 11 14	16 10 36.9929	1	20 39 13.210	27 26 14.10	9008	5020	3660
11 14	16 57 50.4333	1	8 59 37.187	- 5 19 29.16	9003	7036	7881
11 14	16 57 52.4336	1	9 1 55.590	- 5 26 56.49	9003	7036	7882
11 15	0 31 5.0523	1	20 55 44.598	34 39 8.48	9010	1599	2041
11 15	0 31 13.0523	1	20 59 7.029	34 35 20.10	9010	1599	2042
11 15	1 23 19.4922	1	11 52 45.127	-48 24 42.97	9002	5631	6716
11 15	2 37 8.8817	1	20 52 28.197	22 45 14.59	9001	2598	1591
11 15	2 37 32.8816	1	21 1 10.848	22 25 55.35	9001	2598	1592
11 15	4 43 44.2719	1	23 42 54.773	42 23 25.64	9012	1914	8611
11 15	4 44 .2720	1	23 49 23.771	41 42 35.29	9012	1914	8612
11 15	15 8 24.1712	1	21 52 32.345	30 25 39.20	9008	5034	2713
11 15	15 8 32.1715	1	21 55 58.784	30 14 29.77	9008	5034	4181
11 15	18 2 7.2559	1	3 13 51.520	- 8 45 22.45	9003	7055	7883
11 15	18 2 11.2558	1	3 16 36.537	- 9 10 47.76	9003	7055	7884
11 16	1 33 47.7779	1	21 34 35.568	26 2 28.03	9001	2614	3658
11 16	1 34 3.7763	1	21 41 10.842	25 41 56.77	9001	2614	2239
11 16	1 39 20.8154	1	20 49 34.839	21 57 2.00	9010	1614	2701
11 16	1 39 28.8153	1	20 52 4.824	21 49 7.27	9010	1614	2702
11 16	9 57 19.2653	1	21 13 8.560	15 7 12.49	9005	9181	751
11 16	9 57 35.2652	1	21 18 43.360	14 46 32.80	9005	9181	752
11 16	14 9 22.0521	1	21 14 49.861	23 9 20.57	9006	9487	8262
11 16	14 9 46.0527	1	21 23 43.897	22 38 11.35	9006	9487	8263
11 16	16 15 7.6815	1	20 58 48.000	20 34 33.40	9008	5054	2715
11 16	16 15 15.6815	1	21 1 31.468	20 25 7.56	9008	5054	2716
11 16	17 1 11.4340	1	7 28 4.927	-16 48 6.24	9003	7080	7885
11 16	17 1 15.4339	1	7 34 51.098	-17 1 57.83	9003	7080	7886
11 16	20 27 34.9193	1	21 27 36.991	6 17 34.32	9004	1276	9732
11 16	20 27 42.9193	1	21 30 1.793	6 4 14.24	9004	1276	9733
11 17	2 42 7.6190	1	21 20 7.574	14 55 20.19	9001	2621	2240
11 17	2 42 15.6186	1	21 22 49.720	14 43 5.80	9001	2621	2241
11 17	4 46 35.4560	1	23 8 57.585	38 58 44.15	9012	1933	755
11 17	4 46 55.4560	1	23 17 10.877	38 8 42.98	9012	1933	756
11 17	15 11 35.9981	1	21 35 50.227	24 41 43.96	9008	5066	2717
11 17	15 11 43.9984	1	21 39 .752	24 28 58.53	9008	5066	2718
11 17	15 17 52.8845	1	21 13 38.634	9 31 50.73	9006	9506	8264
11 17	15 18 16.8850	1	21 20 19.071	8 49 35.55	9006	9506	8265
11 18	0 21 38.2866	1	5 35 24.403	-54 49 49.31	9002	5663	6717
11 18	0 21 40.2862	1	5 40 21.779	-55 5 39.03	9002	5663	7655
11 18	5 52 50.5965	1	21 33 26.992	30 28 25.78	9012	1949	757
11 18	5 53 2.5965	1	21 38 5.388	30 9 59.29	9012	1949	758
11 18	14 14 .9472	1	21 31 34.142	13 54 21.81	9006	9523	8266
11 18	14 14 32.9491	1	21 42 19.192	12 52 38.63	9006	9523	8267
11 18	16 20 44.6720	1	21 34 10.741	9 49 37.60	9008	5085	2719
11 18	16 20 52.6720	1	21 36 41.703	9 33 42.29	9008	5085	2720
11 18	18 23 19.3766	1	23 19 52.631	5 5 7.23	9004	1298	9734

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.	C.R.S. NO.
1963 11 18	18 23	43.3766	23 26 43.115	4 17 49.06	4	9004	1298	07 9735
11 19	0 41	9.7191	21 50 43.645	16 7 56.90	4	9010	1633	07 2703
11 19	0 41	17.7182	21 53 32.249	15 51 4.62	4	9010	1633	08 2704
11 19	4 49	36.8354	22 37 28.671	33 25 35.39	4	9012	1963	07 759
11 19	4 49	44.8355	22 40 42.116	33 6 1.24	4	9012	1963	09 760
11 19	7 1	53.5847	21 28 18.744	12 30 1.13	4	9012	1976	03 761
11 19	7 2	33.5848	21 39 32.612	11 6 26.74	4	9012	1976	08 762
11 19	13 10	6.0813	22 3 40.095	17 51 24.79	4	9006	9539	04 8268
11 19	13 10	30.0821	22 12 26.476	16 58 46.41	4	9006	9539	07 8269
11 19	15 16	49.3238	22 2 31.787	13 51 6.03	4	9008	5099	04 2256
11 19	15 17	5.3238	22 8 9.713	13 15 44.94	4	9008	5099	06 2257
11 19	15 23	17.6646	21 37 48.189	-1 24 54.71	4	9006	9547	04 8270
11 19	15 23	49.6657	21 45 58.474	-2 37 42.55	4	9006	9547	08 8271
11 19	16 3	22.4317	8 50 59.587	-19 20 2.65	4	9003	7156	06 7887
11 19	16 3	26.4317	8 54 42.151	-19 16 9.04	4	9003	7156	08 7888
11 19	19 27	18.6886	21 40 3.690	2 34 46.86	4	9004	1324	03 9736
11 19	19 27	58.6888	21 52 23.778	1 17 3.90	4	9004	1324	08 9737
11 19	23 36	11.9133	22 5 13.250	22 18 27.18	4	9010	1651	05 2705
11 19	23 36	19.9126	22 8 15.508	22 0 16.40	4	9010	1651	06 2706
11 19	23 41	25.4259	22 33 .972	37 8 37.22	4	9009	9555	03 6165
11 19	23 41	37.4260	22 37 49.678	36 42 1.69	4	9009	9555	06 6166
11 20	1 49	57.1428	21 40 38.911	0 34 .50	4	9010	1659	03 2707
11 20	1 50	5.1439	21 42 46.334	0 15 20.88	4	9010	1659	04 2708
11 20	5 57	41.0704	21 48 27.596	18 44 28.77	4	9012	1994	04 763
11 20	5 57	53.0705	21 52 34.692	18 17 44.30	4	9012	1994	07 764
11 20	6 43	22.5137	7 27 .361	-34 56 2.83	4	9011	1402	09 8709
11 20	6 43	44.5131	8 10 57.644	-34 7 34.87	4	9011	1402	14 1305
11 20	23 23	33.0184	8 20 2.534	-48 40 26.39	4	9002	5696	08 7656
11 20	23 23	37.0176	8 25 54.872	-48 21 56.95	4	9002	5696	09 6719
11 21	4 53	17.3668	22 20 30.540	24 36 45.82	4	9012	2012	03 765
11 21	4 53	21.3684	22 22 .448	24 26 26.25	4	9012	2012	04 766
11 21	5 40	34.2623	8 27 53.100	-24 23 14.74	4	9011	1426	02 8711
11 21	5 41	10.2616	9 5 33.966	-22 48 55.29	4	9011	1426	11 8712
11 21	7 8	40.0906	22 8 20.469	-4 13 34.77	4	9012	2017	06 6722
11 21	7 8	44.0907	22 9 23.042	-4 24 41.17	4	9012	2017	07 6723
11 21	7 50	34.4393	5 9 50.088	-35 44 16.45	4	9011	1431	15 8713
11 21	7 50	40.4393	5 20 51.548	-36 23 34.93	4	9011	1431	18 8714
11 21	19 31	1.0061	21 33 15.040	-4 37 22.37	4	9004	1360	03 9738
11 21	19 31	17.0063	21 37 45.410	-5 9 42.79	4	9004	1360	05 9739
11 21	23 43	44.9243	21 43 12.860	30 6 32.51	4	9009	9584	07 6167
11 22	6 3	42.5344	22 18 37.909	2 25 37.52	4	9012	2034	02 6724
11 22	6 4	2.5344	22 24 46.644	1 28 56.09	4	9012	2034	07 6725
11 22	6 46	11.4023	4 28 47.798	-34 3 25.12	4	9011	1446	03 8715
11 22	6 46	13.4022	4 31 35.553	-34 16 18.85	4	9011	1446	04 8716
11 22	14 23	35.4193	21 52 46.084	-7 46 4.84	4	9006	9573	03 8272

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.	CRS. NO.
1963 11 22	14 23	59.4196	21 59 16.337	- 8 44 46.48	4	9006	9573	8273
11 22	17 10	15.7845	2 16 6.706	-22 10 11.81	4	9003	7217	7889
11 22	17 10	31.7839	2 23 45.841	-23 29 44.36	4	9003	7217	7890
11 22	23 26	19.4663	5 20 50.901	-57 17 11.63	4	9002	5723	7657
11 22	23 26	23.4674	5 28 41.305	-57 31 16.17	4	9002	5723	6721
11 23	0 49	46.0589	21 50 33.031	- 4 54 1.33	4	9010	1699	2709
11 23	0 49	54.0586	21 52 48.270	- 5 14 16.66	4	9010	1699	2710
11 23	5 44	35.4235	8 14.409	-31 15 3.90	4	9011	1454	9352
11 23	5 44	43.4231	8 18 20.488	-30 43 36.48	4	9011	1454	8718
11 23	7 55	10.6534	5 37 35.502	-30 57 39.08	4	9011	1464	8719
11 23	7 55	12.6533	5 41 7.903	-31 1 56.03	4	9011	1464	8720
11 23	13 17	20.4704	21 36 48.085	0 33 17.98	4	9006	9589	8274
11 23	13 18	8.4718	21 51 36.750	- 1 21 35.26	4	9006	9589	1304
11 23	16 12	58.0599	9 50 53.432	-26 9 24.00	4	9003	7221	7891
11 23	16 13	10.0597	9 59 25.769	-25 7 14.41	4	9003	7221	7892
11 24	1 49	39.7767	21 27 53.711	- 6 1 9.90	4	9001	2703	2242
11 24	1 49	47.7757	21 30 11.823	- 6 19 .58	4	9001	2703	2243
11 24	4 41	23.2062	8 16.911	-23 44 .37	4	9011	1479	8721
11 24	4 41	39.2061	8 20 52.650	-23 8 12.95	4	9011	1479	8722
11 25	5 46	18.6637	4 24 59.174	-34 52 47.99	4	9011	1495	8723
11 25	5 46	50.6633	5 6 34.885	-36 37 37.01	4	9011	1495	8724
11 26	6 54	46.3833	4 29 45.270	-31 37 29.47	4	9011	1506	8725
11 26	17 23	53.6937	8 18 56.911	-30 46 35.26	4	9003	7263	7893
11 26	17 23	55.6934	8 22 5.790	-30 30 30.64	4	9003	7263	7894
11 27	5 5	1.3187	21 36 3.716	- 8 13 27.48	4	9012	2060	6726
11 27	5 5	9.3184	21 38 23.117	- 8 35 41.48	4	9012	2060	6727
11 29	5 9	7.7982	21 22 56.181	-18 21 .81	4	9012	2083	7658
11 29	5 9	19.7987	21 26 9.083	-18 53 21.36	4	9012	2083	6729
12 4	4 56	40.4085	3 1 59.525	-29 43 55.28	4	9011	1582	2153
12 5	1 34	26.0925	1 8 7.665	-24 0 22.51	4	9011	1596	2156
12 6	13 21	1.6657	7 15 54.141	-23 13 43.06	4	9003	7402	2305
12 7	3 54	8.0111	2 4 55.969	-30 35 16.54	4	9011	1645	2322
12 7	3 54	32.0107	2 16 50.436	-30 53 55.72	4	9011	1645	2323
12 7	14 31	13.1124	8 14 35.842	- 7 45 38.62	4	9003	7433	2306
12 7	14 31	17.1124	8 16 13.453	- 7 30 11.70	4	9003	7433	2307
12 8	0 31	41.0289	0 34 20.313	-23 50 39.89	4	9011	1655	2324
12 8	15 34	33.7555	5 4 20.806	-11 23 36.85	4	9003	7458	2308
12 8	15 34	41.7553	5 9 24.951	-10 52 9.42	4	9003	7458	2309
12 9	0 23	7.6865	12 53 40.883	-32 7 1.17	4	9006	9853	2166
12 9	0 23	13.6865	13 2 17.868	-31 6 39.30	4	9006	9853	2167
12 9	14 32	24.2919	6 34 32.991	-11 49 17.25	4	9003	7483	2310
12 9	14 32	48.2910	6 47 7.328	-10 10 18.91	4	9003	7483	2311
12 9	22 54	11.1300	3 52 38.957	-22 17 24.30	4	9002	5871	2312
12 9	22 54	19.1311	3 57 7.486	-21 57 42.13	4	9002	5871	2313
12 11	1 46	30.7840	1 25 53.219	-34 10 5.28	4	9011	1695	2325

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.	SRS. NO.
1963 12 11	1 47 10.7830	1	1 45 608	-34 35 15.00	9011	1695	08 2326
12 11	15 0 32.7960	1	10 35 39.817	-15 43 24.10	9012	2239	06 2144
12 11	15 0 34.7959	1	10 39 14.343	-15 18 41.31	9012	2239	07 2145
12 13	1 50 41.9031	1	1 41 28.588	-33 4 52.18	9011	1752	04 2327
12 13	1 50 57.9029	1	1 48 56.429	-33 5 1.16	9011	1752	06 2328
12 13	8 48 56.5780	1	13 38 30.909	52 46 25.10	9009	9759	08 2333
12 14	0 44 16.0139	1	1 9 26.351	-34 45 55.44	9011	1766	04 2329
12 14	21 57 2.4738	1	3 35 52.712	-12 52 54.59	9002	5920	05 2314
12 14	21 57 18.4742	1	3 42 44.641	-12 4 50.33	9002	5920	07 2315
12 15	10 58 58.1457	1	12 48 14.795	-17 29 10.02	9001	2978	04 2277
12 15	10 59 2.1455	1	12 51 58.054	-17 2 15.45	9001	2978	05 2278
12 15	20 55 37.2583	1	5 20 39.355	-10 50 53.43	9002	5939	04 3592
12 15	20 56 9.2570	1	5 34 17.407	-8 52 3.88	9002	5939	08 2317
12 16	12 5 48.1555	1	11 24 54.788	-5 5 18.81	9001	2997	05 2279
12 16	12 5 54.1555	1	11 36 30.229	-4 21 45.20	9001	2997	08 2280
12 16	19 52 15.6077	1	5 59 10.643	-12 45 14.95	9002	5955	07 2318
12 16	19 52 23.6091	1	6 1 47.356	-12 19 19.96	9002	5955	08 2319
12 16	21 59 53.8832	1	3 4 19.324	-5 57 7.01	9002	5961	05 2320
12 16	22 0 1.8839	1	3 7 3.988	-5 33 55.22	9002	5961	06 2321
12 17	1 56 56.4804	1	1 17 11.535	-25 45 7.30	9011	1823	04 2335
12 17	1 57 12.4801	1	1 23 23.246	-25 34 22.28	9011	1823	06 2336
12 17	11 4 1.1004	1	13 28 47.798	-3 16 2.24	9001	3008	03 2281
12 17	11 4 9.1004	1	13 36 19.728	-2 38 26.16	9001	3008	05 2282
12 17	15 15 7.8159	1	10 10 32.991	74 15 26.90	9012	2282	07 2146
12 18	12 10 43.3558	1	12 12 18.849	15 32 40.12	9001	3022	05 2283
12 19	15 20 22.7267	1	14 35 2.122	80 15 8.09	9012	2299	05 2147
12 20	0 55 51.7443	1	1 26 52.524	-25 10 26.92	9011	1885	05 2337
12 20	0 56 7.7440	1	1 33 17.900	-24 50 59.55	9011	1885	07 2338
12 20	12 15 27.5156	1	12 51 50.471	29 7 36.32	9001	3051	03 2284
12 20	12 15 29.5156	1	12 56 41.254	29 1 49.87	9001	3051	04 2285
12 21	2 3 22.8445	1	1 0 59.781	-14 31 22.24	9011	1910	06 2339
12 21	2 3 30.8443	1	1 3 29.957	-14 20 23.86	9011	1910	07 2340
12 21	15 24 35.0161	1	12 16 53.719	86 30 21.26	9012	2320	04 2148
12 21	19 35 50.4677	1	12 32 23.430	8 31 7.28	9005	9549	04 2157
12 22	1 0 5.2795	1	1 36 8.102	-17 45 40.12	9011	1934	06 2341
12 22	1 0 13.2793	1	1 39 4.236	-17 32 4.03	9011	1934	07 2342
12 22	12 19 27.8478	1	11 39 29.619	36 47 40.70	9001	3081	02 2286
12 22	12 19 29.8478	1	11 45 5.746	36 47 7.72	9001	3081	03 2287
12 22	20 42 18.0676	1	9 31 59.315	9 9 59.16	9005	9569	11 2159
12 22	20 42 22.8761	1	9 39 23.989	9 13 43.03	9005	9569	13 2160
12 23	22 44 43.6057	1	14 38 19.884	32 32 51.83	9006	26	03 2330
12 23	11 17 41.5721	1	14 27 13.052	21 32 5.52	9001	3091	05 2288
12 23	11 17 45.5721	1	14 31 4.429	21 12 6.46	9001	3091	06 3591
12 23	15 28 42.4199	1	7 4 53.126	83 54 41.57	9012	2338	01 2149
12 23	15 28 48.4202	1	7 35 18.287	85 16 16.54	9012	2338	04 2150

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.	CHS. NO.
1963 12 23	19 40	1	12 50 7.692	11 51 23.59	9005	9577	12
12 23	23 51	1	13 29 3.614	55 37 15.90	9006	40	07
12 23	23 51	1	13 34 50.162	55 14 8.37	9006	40	08
12 24	1 3	1	1 23 45.138	-10 40 27.33	9011	1990	03
12 24	12 23	1	11 5 .650	37 10 22.78	9001	3112	03
12 24	12 23	1	11 10 18.084	37 11 14.64	9001	3112	04
12 25	23 55	1	12 1 20.172	55 19 41.85	9006	71	04
12 26	10 22	1	12 31 23.859	66 13 .84	9010	1979	01
12 26	18 42	1	14 3 5.703	9 18 14.81	9005	9585	04
12 26	18 42	1	14 18 48.819	8 7 21.78	9005	9585	08
12 26	20 49	1	8 32 4.967	4 27 12.60	9005	9588	06
12 26	22 53	1	14 36 54.526	37 24 15.29	9006	80	04
12 27	11 26	1	14 29 8.150	20 50 42.74	9001	3134	06
12 27	11 26	1	14 32 52.200	20 19 45.24	9001	3134	07
12 28	12 32	1	11 9 58.224	19 26 35.48	9001	3154	08
12 28	18 47	1	14 7 .242	5 37 33.87	9005	9607	05
12 30	6 21	1	10 15 13.951	-12 26 43.31	9004	1566	05
12 30	12 36	1	10 42 6.084	6 33 38.37	9001	3187	07
12 30	12 36	1	10 45 8.192	6 19 30.51	9001	3187	08
12 31	15 47	1	12 8 4.129	64 18 56.42	9012	2386	07

DATE			TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	CARS NO.
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S			
1963	10	1	15	17	24.2180	1	5	8	15.986	-23	6	51.82	4	9012	1447	07
10	1	15	17	28.2179	1	1	5	9	32.126	-22	57	48.24	4	9012	1447	08
10	2	8	25	39.8716	1	1	3	50	7.898	13	12	7.15	4	9007	397	03
10	2	8	25	55.8714	1	1	3	54	29.773	13	59	30.50	4	9007	397	05
10	3	11	45	8.5610	1	1	19	51	18.992	-32	15	29.82	4	9003	6237	14
10	3	11	45	20.5607	1	1	19	59	32.117	-32	54	27.73	4	9003	6237	17
10	4	0	43	43.2433	1	1	20	57	58.926	-32	45	15.19	4	9011	789	04
10	4	0	43	47.2431	1	1	21	1	3.350	-32	52	58.18	4	9011	789	05
10	4	13	50	57.0300	1	1	20	48	25.244	-31	51	5.87	4	9003	6266	03
10	5	0	30	53.6475	1	1	23	7	9.512	-65	9	1.33	4	9007	453	04
10	5	0	31	9.6479	1	1	23	21	13.903	-64	18	49.03	4	9007	453	06
10	5	2	46	27.6397	1	1	19	44	54.737	-60	29	9.05	4	9007	456	06
10	5	2	46	43.6398	1	1	19	56	36.752	-61	8	3.98	4	9007	456	08
10	5	14	25	31.8929	1	1	4	54	49.917	-12	1	30.40	4	9012	1461	04
10	5	14	25	47.8928	1	1	4	59	35.482	-11	20	31.27	4	9012	1461	08
10	5	20	8	6.7043	1	1	22	41	28.475	-47	45	50.25	4	9002	5014	05
10	5	20	8	22.7546	1	1	22	52	33.583	-47	26	40.05	4	9002	5014	07
10	6	0	18	44.3593	1	1	21	33	33.112	-35	17	23.78	4	9011	833	06
10	6	0	19	16.3588	1	1	21	59	42.921	-35	22	1.26	4	9011	833	14
10	6	2	32	55.6350	1	1	19	30	54.428	-28	31	58.92	4	9011	837	05
10	6	2	33	11.6345	1	1	19	38	43.914	-29	4	32.95	4	9011	837	07
10	6	11	15	2.9715	1	1	1	2	43.232	-28	8	3.39	4	9003	6299	07
10	6	11	15	10.9711	1	1	1	5	12.115	-27	50	34.73	4	9003	6299	08
10	6	13	26	39.2508	1	1	21	33	47.545	-32	34	47.22	4	9003	6306	08
10	6	13	26	47.2506	1	1	21	38	19.523	-32	35	13.21	4	9003	6306	10
10	6	19	56	4.8944	1	1	23	22	41.731	-45	56	54.87	4	9002	5038	06
10	6	19	56	12.8944	1	1	23	27	52.619	-45	39	9.49	4	9002	5038	07
10	7	0	6	24.8625	1	1	22	0	56.160	-35	43	56.67	4	9011	852	02
10	7	0	6	36.8625	1	1	22	10	44.192	-35	35	31.68	4	9011	852	05
10	7	2	20	30.4738	1	1	19	38	15.118	-29	32	6.40	4	9011	858	03
10	7	2	20	38.4736	1	1	19	42	34.489	-29	47	23.91	4	9011	858	04
10	7	11	57	35.0243	1	1	5	24	25.931	-5	33	3.18	4	9001	1990	05
10	7	19	43	39.0998	10	10	23	45	40.935	-43	57	14.92	4	9002	5069	07
10	7	19	43	55.0995	10	10	23	55	15.093	-43	10	22.32	4	9002	5069	09
10	8	2	7	40.2274	1	1	19	32	31.104	-29	34	1.80	4	9011	876	03
10	8	2	7	48.2271	1	1	19	37	7.620	-29	49	2.30	4	9011	876	04
10	8	11	44	23.6876	1	1	5	17	41.785	-3	31	46.88	4	9001	2012	02
10	8	11	44	31.6874	1	1	5	20	13.012	-3	14	45.45	4	9001	2012	03
10	8	13	1	53.6063	1	1	22	11	4.208	-30	42	5.58	4	9003	6339	04
10	8	13	2	5.6061	1	1	22	18	24.222	-30	28	19.00	4	9003	6339	07
10	8	19	30	54.4230	10	10	23	55	22.414	-42	26	2.49	4	9002	5095	06
10	8	19	31	10.4230	10	10	0	4	36.288	-41	31	54.23	4	9002	5095	08
10	8	23	41	18.5383	1	1	22	31	45.622	-35	11	57.13	4	9011	895	07
10	9	1	55	16.2674	1	1	19	42	17.405	-30	14	31.63	4	9011	902	02
10	9	1	55	24.3617	1	1	19	53	20.643	-66	29	40.45	4	9007	511	04

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.	R.S. NO.
1963 10 9	1 55	40.3614	1	20 11	50.367	-66 57	9.38	9007	511	06
10 9	12 48	46.3663	1	22 2	20.671	-29 56	12.94	9003	6361	04
10 9	12 49	6.3660	1	22 15	7.372	-29 29	17.88	9003	6361	09
10 9	13 36	58.0747	1	5 48	4.543	8 7	8.23	9012	1488	02
10 9	13 37	18.0759	1	5 54	28.782	8 57	7.13	9012	1488	07
10 9	22 18	8.6880	1	5 42	5.502	0 29	59.10	9006	8857	04
10 9	23 28	29.8572	1	22 33	27.594	-35 2	40.01	9011	914	05
10 9	23 28	7.8570	1	22 39	51.545	-34 41	55.06	9011	914	07
10 10	0 29	7.0061	1	5 30	7.950	3 9	52.18	9008	4518	03
10 10	1 43	48.3909	1	21 28	9.024	-68 22	20.74	9007	521	06
10 10	1 44	20.3911	1	22 9	17.387	-67 39	27.80	9007	521	10
10 10	9 7	13.0778	1	5 25	44.456	6 33	22.86	9010	1187	03
10 10	9 7	37.0782	1	5 33	44.415	7 31	36.94	9010	1187	06
10 10	11 18	26.9482	1	5 14	15.013	1 24	54.34	9001	2046	02
10 10	11 18	50.9482	1	5 21	53.388	2 16	16.42	9001	2046	05
10 10	12 36	46.2271	1	22 35	53.583	-27 10	5.09	9003	6387	02
10 10	12 36	54.2269	1	22 40	53.139	-26 52	55.72	9003	6387	04
10 10	13 25	7.7848	1	6 8	34.497	13 19	51.89	9012	1499	01
10 10	13 25	15.7844	1	6 11	9.184	13 37	41.01	9012	1499	02
10 10	22 6	24.0197	1	6 4	24.668	5 40	54.24	9006	8871	03
10 11	0 16	44.2170	1	5 41	4.364	7 1	46.54	9008	4531	01
10 11	0 17	.2172	1	5 46	29.917	7 37	25.25	9008	4531	05
10 11	1 30	2.4960	1	19 47	37.700	-30 12	10.29	9011	940	02
10 11	1 30	30.4955	1	20 8	51.868	-30 38	38.49	9011	940	09
10 11	11 7	12.9926	1	5 48	3.818	7 30	40.05	9001	2066	04
10 11	11 7	20.9926	1	5 50	51.198	7 47	11.34	9001	2066	05
10 11	12 24	38.4044	1	23 3	17.841	-23 39	19.26	9003	6408	03
10 11	13 12	48.4536	1	6 20	2.898	16 57	20.66	9012	1515	02
10 11	13 13	8.4536	1	6 26	27.303	17 35	45.58	9012	1515	07
10 11	17 33	25.7170	1	6 10	18.807	- 2 19	40.62	9005	8982	05
10 11	21 3	41.1496	10	20 4	55.772	-24 47	56.24	9002	5111	05
10 11	21 3	57.1493	10	20 11	55.359	-24 45	26.84	9002	5111	07
10 12	1 17	17.4811	1	19 44	.219	-29 43	47.45	9011	956	05
10 12	8 42	45.1906	1	5 55	35.151	14 50	46.01	9010	1199	03
10 12	13 0	31.5338	1	6 32	28.559	20 13	8.78	9012	1535	01
10 12	13 0	35.5339	1	6 33	44.218	20 19	37.59	9012	1535	02
10 12	17 20	47.6040	1	6 14	17.657	0 22	29.30	9005	8997	04
10 12	18 41	.9900	10	0 49	46.280	-29 37	31.23	9002	5129	05
10 12	18 41	24.9896	10	0 58	44.074	-27 54	24.61	9002	5129	08
10 12	19 36	8.7253	1	5 5	6.562	10 36	12.81	9005	9005	03
10 12	19 36	40.7255	1	5 15	46.769	11 37	7.71	9005	9005	05
10 12	21 41	28.9584	10	6 23	3.202	12 9	36.66	9006	8904	02
10 12	21 41	52.9593	10	6 30	53.494	12 50	33.38	9006	8904	05
10 13	4 13	9.8883	1	5 54	32.855	6 57	54.78	9004	908	04
10 13	4 13	33.8885	1	6 2	41.673	7 37	57.22	9004	908	07

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.	CRS. NO.
1963 10 13	8	31	38.9821	1	5	18	50.256	47	45	42.01	4	9009	5918
10 13	8	31	42.9820	1	5	20	37.607	47	54	16.77	4	9009	5919
10 13	10	41	38.3410	1	5	56	7.823	12	41	.60	4	9001	5626
10 13	10	42	2.3410	1	6	4	35.894	13	23	58.30	4	9001	5627
10 13	12	0	5.7319	1	23	41	49.148	-15	43	15.84	4	9003	6378
10 13	12	0	13.7316	1	23	45	52.445	-15	16	58.94	4	9003	6379
10 13	15	2	51.6360	1	4	37	15.983	37	41	37.54	4	9012	6190
10 13	15	2	55.6360	1	4	38	47.146	37	53	4.48	4	9012	6191
10 13	18	28	53.3769	10	1	4	38.680	-24	31	59.61	4	9002	6367
10 13	18	29	17.3766	10	1	12	11.051	-22	54	25.65	4	9002	6368
10 13	20	39	8.0796	10	20	23	44.913	-21	47	44.04	4	9002	6370
10 13	21	29	8.8389	1	6	35	18.471	15	8	24.38	4	9006	4328
10 13	21	29	16.8390	1	6	37	53.235	15	20	2.70	4	9006	4329
10 13	23	39	45.0429	1	3	36	36.714	16	12	6.74	4	9006	4330
10 13	23	39	53.0431	1	3	38	31.066	16	30	2.78	4	9006	4331
10 13	23	40	4.1169	1	6	28	30.103	17	54	47.90	4	9008	4884
10 13	23	40	8.1167	1	6	29	54.900	18	0	49.62	4	9008	4885
10 14	4	0	58.0269	1	6	10	48.506	10	12	25.03	4	9004	6172
10 14	4	1	14.0270	1	6	16	20.798	10	36	7.83	4	9004	6173
10 14	8	18	55.0753	1	5	30	16.802	49	33	.12	4	9009	5920
10 14	8	19	11.0747	1	5	37	41.156	50	0	55.90	4	9009	373
10 14	10	29	21.5159	1	6	11	53.225	15	51	28.01	4	9001	5628
10 14	10	29	45.5158	10	6	20	27.808	16	28	8.24	4	9001	5629
10 14	11	47	12.2520	1	23	39	21.551	-13	26	32.83	4	9003	6380
10 14	11	47	16.1553	1	23	41	21.833	-13	13	16.90	4	9003	6381
10 14	18	16	29.7174	1	1	11	24.342	-20	37	58.46	4	9002	6371
10 14	18	16	45.7170	10	1	15	57.179	-19	35	9.38	4	9002	6372
10 14	20	26	46.2288	10	20	31	44.195	-19	40	26.76	4	9002	6373
10 14	20	27	5.8801	10	20	42	10.222	-19	11	8.02	4	9002	7710
10 14	21	16	45.0036	10	6	46	28.136	17	37	50.55	4	9006	4332
10 14	21	17	17.0044	10	6	56	35.883	18	14	42.39	4	9006	4333
10 14	23	31	25.2420	1	5	2	20.289	29	11	22.85	4	9006	6646
10 14	23	31	57.2428	1	5	14	56.574	30	23	19.33	4	9006	6647
10 15	0	40	17.0838	1	20	40	28.963	-26	32	38.42	4	9011	6663
10 15	0	40	25.8511	1	22	57	15.792	-68	56	41.50	4	9007	6597
10 15	0	40	33.0832	1	20	56	3.479	-26	3	22.88	4	9011	7057
10 15	0	40	45.8512	1	23	22	12.643	-67	0	12.56	4	9007	6598
10 15	3	48	28.8057	1	6	21	46.489	12	42	12.86	4	9004	747
10 15	3	48	36.8057	1	6	24	32.372	12	52	31.13	4	9004	6174
10 15	8	5	36.8038	1	6	35	53.612	23	29	48.26	4	9010	5897
10 15	8	6	8.8044	1	6	46	55.072	24	5	27.85	4	9010	5898
10 15	10	17	20.4758	1	6	33	49.119	18	54	47.95	4	9001	5630
10 15	10	17	28.4756	1	6	36	40.833	19	4	21.63	4	9001	5631
10 15	10	18	.1609	1	3	52	27.919	27	38	6.00	4	9010	5899
10 15	10	18	16.1610	1	3	57	1.308	28	17	52.47	4	9010	5900

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.	NRS. NO.
1963 10 15	11 34 41.8653	1	23 47 43.366	- 9 46 51.99	9003	6491	6382
10 15	11 34 45.8654	1	23 49 40.710	- 9 33 13.50	9003	6491	6383
10 15	14 38 24.6143	1	5 24 44.245	44 49 19.12	9012	1594	6333
10 15	14 38 28.6143	1	5 26 36.695	44 57 24.75	9012	1594	6334
10 15	20 14 45.1441	10	20 51 49.500	-16 22 46.18	9002	5206	4334
10 16	0 28 19.9597	1	23 49 35.400	-64 32 48.26	9007	594	4335
10 16	0 28 31.9598	1	0 0 6.945	-63 6 44.04	9007	594	4336
10 16	1 27 34.1736	1	4 15 50.850	27 22 3.62	9008	4618	4886
10 16	1 27 50.1736	1	4 20 54.348	27 58 16.75	9008	4618	5801
10 16	2 42 29.1604	1	19 38 46.873	-39 17 15.54	9007	599	4337
10 16	2 42 53.1599	1	19 53 24.751	-39 17 33.18	9007	599	4338
10 16	7 53 46.8139	1	6 5 27.623	52 32 36.36	9009	9275	376
10 16	11 22 37.4692	1	0 6 22.397	- 4 41 19.32	9003	6513	6384
10 16	11 22 41.4692	1	0 8 5.078	- 4 28 47.21	9003	6513	6385
10 16	12 11 9.7536	1	2 53 12.486	12 47 17.56	9001	2156	5632
10 16	12 11 41.7528	1	2 59 8.340	13 41 47.92	9001	2156	5633
10 16	20 2 15.8693	10	20 56 52.900	-13 25 8.60	9002	5227	5965
10 16	20 2 31.8693	10	21 6 13.912	-12 42 43.13	9002	5227	5966
10 16	23 2 17.9139	1	6 55 58.502	23 38 53.07	9008	4630	4887
10 16	23 2 41.9143	1	7 3 53.752	23 54 57.68	9008	4630	4888
10 17	0 15 59.6904	1	0 14 49.595	-60 52 10.84	9007	613	4339
10 17	0 16 15.6902	1	0 25 19.761	-58 46 1.90	9007	613	4340
10 17	2 29 34.8910	1	19 26 12.571	-38 29 15.18	9007	618	4341
10 17	2 29 58.8906	1	19 41 20.378	-38 28 24.65	9007	618	4342
10 17	3 24 9.2511	1	6 57 47.741	17 13 19.61	9004	995	6175
10 17	3 24 33.2514	1	7 5 53.685	17 28 50.27	9004	995	6176
10 17	11 10 33.2990	1	0 21 46.621	0 8 41.06	9003	6532	6386
10 17	19 49 37.3663	10	20 56 13.374	-10 32 42.26	9002	5251	5967
10 17	19 49 53.3662	10	21 5 55.557	- 9 43 56.87	9002	5251	5968
10 17	22 55 28.5888	1	6 36 52.807	37 38 44.41	9006	8964	6648
10 17	22 56 59.02	1	6 52 22.464	37 56 4.24	9006	8964	6649
10 18	2 17 11.0761	1	19 52 27.531	- 0 41 23.34	9011	1002	6665
10 18	2 17 27.0756	1	20 0 9.443	- 0 4 46.58	9011	1002	6666
10 18	9 39 3.9112	1	6 53 17.854	23 14 41.25	9001	2172	5634
10 18	9 39 27.9113	1	7 1 15.510	23 26 4.75	9001	2172	5635
10 18	11 54 17.6679	1	5 30 1.223	32 17 3.08	9001	2180	4320
10 18	11 54 49.6683	1	5 43 41.986	32 58 2.44	9001	2180	4321
10 18	19 37 32.6978	10	21 16 10.625	- 5 28 32.05	9002	5274	5969
10 18	19 37 48.6974	10	21 26 7.771	- 4 30 30.53	9002	5274	5970
10 18	22 41 18.5764	10	6 9 51.632	37 24 33.88	9006	8982	6182
10 18	22 41 34.5768	10	6 17 12.095	37 36 44.12	9006	8982	6183
10 18	23 50 53.3194	1	22 0 4.540	-12 36 44.23	9011	1018	7058
10 18	23 51 13.3189	1	22 17 41.603	-11 4 21.04	9011	1018	6667
10 19	2 5 9.4964	1	20 6 6.686	3 23 27.25	9011	1026	6668
10 19	2 5 41.4951	1	20 22 15.711	4 52 28.55	9011	1026	6669

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.	CRS.NO.
1963 10 19	9 30	13.3570	1	5 46 33.745		42 18 28.08	4	9010	1280	5901
10 19	9 30	45.3572	1	6 1 51.855		42 49 55.75	4	9010	1280	5902
10 19	19 25	14.8699	10	21 28 14.560		- 0 36 30.96	4	9002	5295	5971
10 19	19 25	22.8694	10	21 33 19.588		- 0 4 48.13	4	9002	5295	5972
10 19	22 28	19.1909	1	6 16 37.884		38 0 38.85	4	9006	9000	6650
10 19	22 28	51.1920	1	6 31 8.263		38 14 10.64	4	9006	9000	6651
10 19	23 38	24.5218	1	22 9 39.404		- 8 36 15.08	4	9011	1046	6670
10 19	23 38	36.5216	1	22 20 1.153		- 7 40 1.98	4	9011	1046	6671
10 20	0 39	3.0784	1	5 57 33.173		38 41 30.13	4	9008	4694	4889
10 20	9 17	54.2150	1	6 13 58.980		43 21 38.71	4	9010	1291	5903
10 20	9 18	26.2174	1	6 29 30.870		43 33 48.44	4	9010	1291	5904
10 20	11 29	37.3933	1	6 17 4.305		34 53 18.28	4	9001	2189	4322
10 20	11 29	45.3930	1	6 20 42.845		34 56 22.78	4	9001	2189	4323
10 20	19 13	20.3331	10	21 55 3.885		6 11 20.30	4	9002	5316	5973
10 20	19 13	36.3331	10	22 5 1.342		7 16 5.74	4	9002	5316	5974
10 20	22 16	5.0458	10	6 43 46.571		38 28 31.18	4	9006	9017	6184
10 20	22 16	29.0475	10	6 54 23.512		38 25 53.70	4	9006	9017	6185
10 21	0 27	5.1459	1	6 33 35.297		39 28 42.13	4	9008	4713	4890
10 21	1 39	19.2706	1	19 37 46.795		7 6 38.67	4	9011	1075	6672
10 21	1 39	35.0654	1	19 32 54.328		-33 9 57.66	4	9007	677	6310
10 21	1 39	43.0654	1	19 39 17.253		-32 55 58.74	4	9007	677	6311
10 21	4 48	27.5413	1	6 31 37.528		27 44 40.34	4	9004	1063	6177
10 21	4 48	51.5412	1	6 41 45.417		27 43 11.68	4	9004	1063	6178
10 21	11 16	52.7583	1	6 30 33.929		35 8 25.18	4	9001	2206	9156
10 21	11 17	16.7588	1	6 41 21.498		35 7 39.81	4	9001	2206	9157
10 21	12 31	46.3299	1	20 55 17.861		17 27 52.05	4	9003	6583	6643
10 21	22 3	44.1733	1	7 6 47.544		38 11 28.22	4	9006	9034	6186
10 21	22 3	53.7193	1	7 10 47.204		38 6 25.73	4	9006	9034	6187
10 22	0 13	53.8454	1	6 35 39.063		39 28 12.04	4	9008	4730	4878
10 22	0 13	57.8451	1	6 37 27.324		39 27 39.00	4	9008	4730	4879
10 22	1 27	17.7966	1	19 44 54.274		-30 31 49.85	4	9007	700	6312
10 22	1 27	29.7963	1	19 55 11.069		-29 58 17.91	4	9007	700	7074
10 22	1 27	55.0104	1	20 12 8.186		14 6 31.76	4	9011	1106	6673
10 22	4 36	27.4009	1	7 1 34.621		27 28 5.36	4	9004	1084	6179
10 22	8 52	49.8084	1	6 55 53.932		43 14 23.77	4	9010	1304	5905
10 22	8 53	5.8068	1	7 3 9.667		43 6 .54	4	9010	1304	5906
10 22	9 59	44.4756	1	18 3 2.463		-12 29 17.81	4	9003	6596	8324
10 22	9 59	48.4755	1	18 7 32.586		-12 20 8.90	4	9003	6596	6645
10 22	17 30	42.0898	1	7 13 50.011		26 9 26.26	4	9005	9040	5686
10 22	17 31	30.0897	1	7 29 59.557		25 43 1.76	4	9005	9040	5687
10 22	19 45	21.4583	1	5 45 8.331		28 3 17.15	4	9005	9044	5688
10 22	19 45	53.4590	1	5 57 47.433		28 6 6.78	4	9005	9044	5689
10 22	21 50	47.1447	1	7 13 31.030		37 47 6.07	4	9006	9048	6652
10 22	21 51	11.1452	1	7 23 2.927		37 28 21.77	4	9006	9048	6653
10 23	0 1	42.6204	1	7 4 4.784		38 50 46.90	4	9008	4744	4880

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.	ORS.NO.
1963 10 23	1 15 2.3614	1	19 59 33.627	-26 59 53.64	9007	722 02	6314
10 23	1 15 6.3614	1	20 3 11.976	-26 44 14.81	9007	722 03	6315
10 23	8 39 38.9165	1	6 58 18.933	42 52 9.91	9010	1319 05	5907
10 23	8 39 54.9161	1	7 5 16.445	42 40 48.31	9010	1319 07	5908
10 23	10 51 41.9775	1	7 4 35.308	34 20 23.07	9001	2237 03	5573
10 23	10 52 5.9774	1	7 14 33.905	34 1 17.65	9001	2237 06	5574
10 23	15 13 33.3537	1	6 0 9.811	53 38 54.23	9012	1655 02	6335
10 23	15 13 49.3537	1	6 8 44.015	53 44 36.23	9012	1655 06	7050
10 23	19 33 45.8479	1	6 24 52.071	27 43 1.88	9005	9058 01	5690
10 23	19 34 33.8500	1	6 44 38.280	27 14 17.82	9005	9058 04	5691
10 23	21 38 35.6975	1	7 36 46.360	36 25 7.68	9006	9061 04	6654
10 23	21 38 51.6979	1	7 42 33.940	36 7 16.49	9006	9061 06	6655
10 24	4 10 51.0179	1	7 19 33.064	26 19 17.54	9004	1125 04	6180
10 24	4 11 23.0181	1	7 31 29.692	25 46 11.99	9004	1125 08	6181
10 24	8 27 1.8126	1	7 14 44.800	41 51 39.20	9010	1330 04	7054
10 24	19 20 53.1172	1	6 33 33.332	27 9 6.85	9005	9071 04	5692
10 24	19 21 25.1178	1	6 46 24.436	26 43 22.11	9005	9071 06	5693
10 25	8 13 36.0101	1	7 10 43.449	41 27 6.60	9010	1347 04	5910
10 25	8 14 16.0108	1	7 26 9.064	40 40 5.27	9010	1347 09	5911
10 25	14 48 34.6613	1	6 54 26.705	51 59 58.44	9012	1664 02	6337
10 25	14 48 50.6614	1	7 2 40.111	51 46 27.77	9012	1664 06	6338
10 25	21 12 11.4190	1	7 35 53.804	35 8 36.46	9006	9076 03	6656
10 25	21 12 27.4196	1	7 41 6.085	34 48 1.66	9006	9076 05	6657
10 25	23 28 8.5175	1	6 18 54.882	36 41 29.13	9006	9081 02	6658
10 25	23 28 32.5186	1	6 29 16.621	36 25 38.79	9006	9081 06	7713
10 26	10 13 38.4289	1	7 40 .806	30 38 3.13	9001	2285 02	5575
10 26	10 14 2.4288	1	7 48 6.810	30 2 50.23	9001	2285 05	5576
10 26	10 19 11.4542	1	6 51 23.068	37 51 5.23	9010	1369 03	4343
10 26	10 19 27.4554	1	6 58 28.541	37 33 16.69	9010	1369 05	4344
10 26	14 35 33.8815	1	7 3 39.330	50 46 2.60	9012	1675 02	6339
10 26	14 35 41.8816	1	7 7 33.190	50 37 2.55	9012	1675 04	6340
10 26	17 52 35.7393	10	17 45 37.537	3 4 14.74	9002	5403 06	5975
10 26	23 10 16.8046	1	7 37 29.087	34 38 16.01	9008	4801 06	5912
10 27	7 48 56.3999	1	7 48 34.210	37 17 30.74	9010	1374 06	4345
10 27	7 50 .4021	1	8 8 4.303	35 31 17.50	9010	1374 10	4346
10 27	10 1 17.5027	1	7 55 22.916	28 23 11.93	9001	2307 04	5577
10 27	10 2 5.5024	1	8 9 51.154	27 4 19.23	9001	2307 07	5578
10 27	10 4 45.1705	1	6 21 18.389	37 59 21.08	9010	1381 11	4347
10 27	10 5 17.1713	1	6 34 55.423	37 30 23.15	9010	1381 15	4348
10 27	12 12 53.5490	1	5 12 31.163	27 43 15.06	9001	2310 02	5579
10 27	12 13 9.5485	1	5 17 55.451	27 38 7.80	9001	2310 04	5580
10 27	14 23 19.6733	1	7 33 7.501	48 10 .31	9012	1693 02	6341
10 27	14 23 27.6734	1	7 36 39.871	47 56 42.57	9012	1693 04	6342
10 27	22 56 57.4092	1	7 34 43.805	33 51 13.43	9008	4812 03	5913
10 27	22 57 13.4097	1	7 39 43.606	33 26 45.99	9008	4812 05	5914

DATE			TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	RHS.NO.
Y	M	D	H	M	S	MS	H	M	S	D	M	S			
1963	10	27	23	3	21.0247	1	7	3	2.916	33	1	53.77	9006	9102	03
	10	27	23	4	1.0260	1	7	18	57.856	31	58	37.12	9006	9102	08
	10	28	0	17	29.3742	1	23	46	53.314	-50	47	12.47	9009	9358	01
	10	28	0	17	33.3743	1	23	49	17.345	-50	22	22.35	9009	9358	02
	10	28	9	47	44.1774	1	7	47	21.565	27	54	58.37	9001	2322	02
	10	28	9	48	32.1771	1	8	1	20.328	26	36	13.03	9001	2322	05
	10	28	22	51	39.5341	10	7	37	57.304	29	1	53.76	9006	9118	07
	10	28	22	51	55.5354	10	7	43	46.050	28	29	52.06	9006	9118	09
	10	29	7	24	4.3914	1	8	11	13.926	32	24	47.94	9010	1405	05
	10	29	9	35	52.7267	1	8	7	43.242	24	33	12.45	9001	2340	03
10	29	9	36	40.7269	1	8	19	57.413	23	10	14.17	9001	2340	06	
10	29	9	39	37.6277	1	6	56	44.885	34	3	18.40	9010	1413	04	
10	29	9	39	53.6280	1	7	3	1.256	33	37	12.11	9010	1413	06	
10	29	13	58	16.5542	1	8	6	4.614	42	23	56.52	9012	1705	02	
10	29	13	58	20.5541	1	8	7	30.502	42	15	6.42	9012	1705	03	
10	29	22	36	18.6431	1	6	50	38.256	31	26	9.41	9006	9139	03	
10	29	22	36	34.6439	1	6	56	36.218	31	0	19.34	9006	9139	04	
10	30	0	49	4.8419	1	7	17	17.890	25	55	52.40	9008	4852	02	
10	30	9	22	56.6573	1	8	8	49.304	22	54	12.72	9001	2352	07	
10	30	9	23	12.6574	1	8	12	41.011	22	26	37.57	9001	2352	09	
10	30	11	38	39.2162	1	7	7	40.882	18	34	7.59	9001	2360	02	
10	30	11	39	3.2163	1	7	15	44.192	17	46	50.76	9001	2360	05	
10	30	13	45	2.5707	1	8	4	21.837	40	44	56.59	9012	1720	03	
10	30	13	45	10.5708	1	8	7	2.774	40	26	40.59	9012	1720	05	
10	30	18	3	20.9353	10	7	11	31.835	19	35	55.35	9005	9084	01	
10	30	18	4	24.9346	10	7	30	57.739	17	45	30.75	9005	9084	05	
10	30	22	24	55.4307	1	7	29	37.600	26	36	48.03	9006	9157	03	
10	30	22	25	19.4310	1	7	37	34.586	25	47	11.20	9006	9157	06	
10	31	0	36	35.2004	1	7	31	18.245	22	53	55.31	9008	4869	05	
10	31	9	10	2.6478	1	8	9	50.120	21	8	34.81	9001	2366	03	
10	31	9	10	18.6485	1	8	13	26.574	20	41	5.86	9001	2366	04	
10	31	11	25	47.3696	1	7	13	27.833	16	24	10.99	9001	2374	03	
10	31	11	25	55.3695	1	7	16	1.887	16	7	53.94	9001	2374	04	
10	31	22	13	8.2545	1	7	54	57.319	21	54	39.28	9006	9181	06	
10	31	22	13	16.2542	1	7	57	19.074	21	36	48.22	9006	9181	07	
11	3	5	34	49.4215	1	23	35	39.330	-37	50	1.71	9012	1770	03	
11	3	10	47	43.8575	1	7	35	24.651	8	10	22.56	9001	2391	03	
11	3	10	47	51.8578	1	7	37	34.284	7	53	10.62	9001	2391	04	
11	3	14	15	47.9496	1	23	19	20.308	-38	54	18.16	9006	9222	02	
11	3	15	11	.6702	1	7	9	15.954	18	20	39.87	9012	1776	04	
11	3	21	33	46.7548	1	7	51	27.634	16	3	16.68	9006	9229	04	
11	4	14	3	17.1693	1	23	20	54.340	-37	47	15.70	9006	9246	05	
11	4	14	3	25.1693	1	23	25	39.550	-37	4	2.21	9006	9246	07	
11	4	14	58	51.2969	1	7	26	51.710	13	29	11.90	9012	1791	07	
11	5	0	51	27.4885	1	19	35	32.198	0	11	20.11	9009	9429	05	

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.	CRS. NO.
	H	M	S		H	M	S	D	M	S			
1963 11 5	0	51	31.4881	1	19	37	46.499	0	39	56.33	9009	9429	06
11 5	3	2	54.4201	1	22	13	5.001	-36	16	31.21	9001	2423	02
11 5	3	3	10.4201	1	22	22	39.482	-35	15	15.47	9001	2423	04
11 5	5	10	15.9834	1	23	59	25.039	-30	17	51.02	9012	1793	05
11 5	16	1	20.2707	1	22	51	52.087	-34	7	4.78	9008	4902	05
11 5	23	23	46.7500	1	6	35	20.810	-1	13	42.57	9006	9279	07
11 5	23	23	54.7500	1	6	37	26.186	-1	32	10.56	9006	9279	08
11 6	0	39	2.3299	1	19	29	10.945	-4	33	39.04	9009	9435	09
11 6	2	50	6.3685	1	22	1	2.579	-36	41	59.95	9001	2445	03
11 6	2	50	14.3684	1	22	6	7.094	-36	11	24.57	9001	2445	04
11 7	0	27	1.8411	1	22	38	7.953	-33	53	47.24	9010	1495	07
11 7	0	27	5.8418	1	22	41	15.740	-33	28	25.43	9010	1495	08
11 7	2	38	42.3917	1	22	44	36.871	-31	2	58.53	9001	2469	03
11 8	15	23	52.8605	1	23	1	9.565	-30	10	6.85	9008	4925	01
11 8	0	15	34.9682	1	23	30	17.860	-24	50	53.71	9010	1517	06
11 7	19	57	2.9073	1	22	30	2.829	-33	43	13.46	9004	1220	05
11 7	13	26	35.8781	1	23	59	9.653	-28	31	27.59	9006	9302	04
11 7	4	45	28.3064	1	0	14	31.820	-23	41	13.84	9012	1819	03
11 8	19	45	23.0116	1	23	3	42.422	-29	14	18.01	9004	1239	04
11 8	19	45	27.0120	1	23	6	19.897	-28	54	37.37	9004	1239	05
11 9	0	2	24.1360	1	19	38	6.641	27	9	44.86	9009	9455	04
11 9	0	2	32.1366	1	19	45	8.329	28	44	55.71	9009	9455	08
11 9	6	33	18.1386	1	19	27	3.054	4	34	34.06	9012	1828	06
11 10	2	1	2.0661	1	22	43	40.589	-28	55	31.83	9001	2492	02
11 10	2	1	10.0659	1	22	50	8.815	-28	5	47.56	9001	2492	04
11 10	9	27	37.9660	1	6	48	31.931	-6	13	58.96	9009	9486	05
11 10	15	1	52.9412	1	20	13	2.088	-4	29	34.34	9006	9386	01
11 10	15	1	56.9416	1	20	15	15.742	-4	9	11.04	9006	9386	02
11 10	23	37	51.7356	1	19	49	48.616	43	58	19.35	9009	9491	06
11 10	23	37	55.7356	1	19	54	41.291	44	48	20.92	9009	9491	08
11 11	1	48	40.6117	1	22	53	54.691	-26	54	56.06	9001	2520	01
11 11	1	48	52.6127	1	23	4	4.606	-25	32	39.73	9001	2520	04
11 11	14	49	22.3164	1	20	5	52.461	-2	41	13.55	9006	9415	03
11 11	14	49	26.3167	1	20	8	16.042	-2	18	58.75	9006	9415	04
11 12	1	36	34.2673	1	23	18	37.726	-22	49	18.68	9001	2538	04
11 12	1	36	42.2674	1	23	25	31.916	-21	48	47.76	9001	2538	06
11 12	14	34	55.0880	1	0	10	8.721	-15	9	22.23	9008	4974	04
11 12	14	37	15.9080	1	20	14	44.567	1	44	40.44	9006	9436	06
11 12	14	37	19.9077	1	20	17	33.932	2	11	7.29	9006	9436	07
11 12	16	47	53.2780	1	20	3	17.443	5	35	13.14	9008	4981	04
11 13	1	24	23.6879	1	23	41	4.393	-18	49	17.21	9001	2558	05
11 13	1	24	27.6878	1	23	44	31.902	-18	17	17.34	9001	2558	06
11 13	5	44	47.4972	1	19	58	35.426	35	44	4.24	9012	1872	04
11 13	5	44	51.4972	1	20	3	1.922	36	34	48.58	9012	1872	06
11 13	8	54	.9632	1	8	27	42.707	15	25	40.75	9007	1051	05

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.	NRS. NO.
1963 11 14	1	13	36.1372	1	19 18 51.803			11 28 23.57	4		9010	1576	06 9184
11 14	1	13	40.1372	1	19 21 9.363			11 58 46.96	4		9010	1576	07 9185
11 14	8	41	3.8009	1	8 27 38.025			12 18 36.69	4		9007	1071	03 9230
11 14	8	41	35.7998	1	8 35 53.279			10 56 23.70	4		9007	1071	07 9231
11 14	14	12	39.2331	1	20 24 11.019			9 45 18.79	4		9006	9470	06 6898
11 14	14	12	43.2333	1	20 27 58.752			10 20 10.07	4		9006	9470	07 6899
11 15	1	2	14.0120	1	19 58 44.800			24 34 33.40	4		9010	1601	03 9182
11 15	1	2	18.0120	1	20 2 18.678			25 15 38.15	4		9010	1601	04 9183
11 15	1	2	23.5863	1	1 54 31.100			2 51 44.48	4		9001	2593	02 9176
11 15	3	12	34.2394	1	20 2 9.264			5 44 27.63	4		9001	2599	05 9222
11 15	3	12	38.2394	1	20 4 44.461			6 7 36.24	4		9001	2599	06 9223
11 15	5	19	42.5493	1	19 40 40.062			45 19 18.32	4		9012	1917	03 9441
11 15	5	19	50.5494	1	19 51 57.358			47 13 10.81	4		9012	1917	07 9442
11 15	8	28	5.1029	1	8 27 21.650			9 14 25.82	4		9007	1097	05 9232
11 16	20	18	40.4410	1	20 19 49.158			- 2 4 52.85	4		9004	1275	05 7159
11 16	20	18	44.4411	1	20 22 42.930			- 1 47 56.78	4		9004	1275	06 7160
11 17	4	55	7.6088	1	20 22 22.909			61 54 18.55	4		9012	1934	02 9443
11 17	4	55	17.6091	1	20 48 32.658			63 45 20.79	4		9012	1934	07 9444
11 17	8	2	55.0332	1	8 39 25.440			1 7 59.98	4		9007	1138	03 9233
11 17	8	3	19.0327	1	8 45 29.443			0 8 12.02	4		9007	1138	06 9234
11 17	9	15	50.7393	1	22 34 27.546			- 8 53 53.25	4		9005	9199	01 8979
11 17	9	16	10.7390	1	22 59 56.057			- 6 32 37.97	4		9005	9199	06 8980
11 17	13	35	17.9315	1	20 28 15.228			21 9 37.59	4		9006	9504	05 9888
11 17	13	35	19.9311	1	20 31 6.378			21 33 17.72	4		9006	9504	06 9889
11 18	2	35	3.9431	1	19 43 47.199			10 48 5.56	4		9001	2632	06 9224
11 18	4	43	2.6218	1	21 57 13.159			70 6 44.72	4		9012	1946	06 9445
11 18	13	22	52.3974	1	20 36 19.418			26 2 37.89	4		9006	9521	03 9890
11 18	13	22	56.3976	1	20 43 6.911			26 53 11.19	4		9006	9521	05 9891
11 18	15	33	12.7634	1	19 41 25.196			24 4 59.67	4		9008	5083	06 6897
11 18	19	53	51.6277	1	20 21 31.489			0 4 49.01	4		9004	1303	02 9177
11 18	19	53	59.6276	1	20 28 52.734			0 43 2.69	4		9004	1303	04 9178
11 19	0	12	15.7962	1	19 41 29.748			41 30 40.79	4		9010	1632	06 9181
11 19	4	32	47.4821	1	3 3 48.594			55 30 10.10	4		9012	1962	03 9446
11 19	4	32	55.4824	1	3 8 36.580			54 27 45.12	4		9012	1962	07 49
11 19	6	44	49.2898	1	18 28 40.548			47 50 32.54	4		9012	1975	03 9448
11 19	6	44	59.2896	1	18 32 52.248			49 16 50.20	4		9012	1975	08 9449
11 19	19	42	1.0093	1	21 2 5.516			4 4 33.30	4		9004	1325	02 7706
11 19	23	59	56.0703	1	19 57 21.388			48 50 31.96	4		9010	1652	03 9179
11 20	0	0	2.0697	1	20 9 27.686			50 19 13.94	4		9010	1652	06 9180
11 20	6	32	14.2343	1	18 14 6.033			49 23 3.59	4		9012	1999	04 9450
11 20	6	32	24.2343	1	18 18 14.254			50 54 12.10	4		9012	1999	09 9451
11 20	12	58	15.6201	1	21 42 4.896			39 22 58.37	4		9006	9560	03 220
11 21	6	19	41.3939	1	17 59 51.016			51 9 20.40	4		9012	2013	05 9452
11 21	6	19	47.3872	1	18 2 15.409			52 6 59.00	4		9012	2013	08 9453
11 21	19	16	31.6937	1	20 28 9.985			2 33 45.35	4		9004	1359	02 6305

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.	CRS.NO.
1963 11 21	19 16	37.6935		1	20 35 59.423			3 5 47.31	4		9004	1359	05 7134
11 22	6 7	13.8154		1	17 47 5.251			53 43 21.15	4		9012	2035	02 9454
11 22	6 7	23.8188		1	17 51 12.484			55 26 20.41	4		9012	2035	07 732
11 23	14 35	12.1991		1	19 15 30.502			34 58 53.45	4		9006	9595	03 221
11 23	14 35	20.1995		1	19 22 9.595			36 6 53.12	4		9006	9595	05 222
11 23	18 51	59.6735		1	21 18 40.471			5 48 21.64	4		9004	1377	03 6306
11 23	18 52	3.6734		1	21 26 .731			6 9 20.11	4		9004	1377	05 6307
11 23	23 53	19.0599		1	6 5 3.274			19 17 26.07	4		9002	5733	03 9227
11 23	23 53	35.0594		1	6 9 7.212			18 37 46.33	4		9002	5733	05 9228
11 26	13 57	30.1266		1	18 47 20.869			37 19 41.61	4		9006	9617	01 9894
11 27	13 45	7.8302		1	18 50 26.519			40 0 7.86	4		9006	9645	06 9895
11 28	9 12	37.3846		1	20 46 42.681			11 7 4.79	4		9005	9306	06 9434
11 29	2 32	58.3585		1	19 47 37.657			17 39 51.08	4		9001	2789	05 8981
11 29	19 51	6.6185		1	20 4 22.860			- 0 43 16.83	4		9004	1414	02 7707
11 30	13 8	37.0484		1	21 21 .937			54 51 33.68	4		9006	9717	03 9896
11 30	19 38	51.5802		1	20 18 56.744			- 3 36 59.07	4		9004	1437	04 6308
11 30	19 38	55.5802		1	20 23 29.820			- 3 50 16.85	4		9004	1437	06 7026
12 1	12 56	14.3734		1	22 17 5.612			54 46 .76	4		9006	9737	04 449
12 1	12 56	18.3739		1	22 34 2.732			54 27 6.63	4		9006	9737	06 450
12 2	1 55	54.4917		1	20 26 44.011			12 14 5.02	4		9001	2830	03 595
12 2	1 55	58.4915		1	20 33 40.384			12 5 52.13	4		9001	2830	05 596
12 3	1 43	34.7069		1	20 50 18.955			8 34 47.03	4		9001	2847	03 597
12 3	1 43	42.7070		1	21 6 22.792			7 57 4.78	4		9001	2847	07 598
12 4	6 40	6.7563		1	8 17 5.770			-30 44 50.83	4		9011	1587	05 5273
12 4	23 42	37.3762		1	3 14 9.244			- 9 58 58.95	4		9002	5823	08 606
12 4	23 43	48.4799		1	3 35 5.187			-13 38 54.04	4		9002	5823	16 607
12 5	1 19	52.7804		1	23 55 10.848			- 9 41 11.40	4		9001	2883	03 599
12 5	1 19	54.7805		1	23 58 55.370			- 9 53 42.61	4		9001	2883	04 721
12 5	6 27	31.3458		1	8 34 45.679			-31 29 59.28	4		9011	1610	05 5274
12 6	6 13	48.8141		1	8 27 17.676			-31 45 49.69	4		9011	1629	02 5275
12 6	14 37	22.9745		1	5 33 17.659			- 4 2 33.11	4		9003	7411	05 840
12 6	14 37	30.9745		1	5 36 32.034			- 4 28 48.22	4		9003	7411	07 841
12 7	6 0	33.8281		1	8 29 57.394			-32 0 42.80	4		9011	1651	07 5276
12 7	6 0	41.8279		1	8 32 58.306			-32 0 9.77	4		9011	1651	08 7149
12 7	14 24	10.1263		1	5 27 37.998			- 4 48 5.31	4		9003	7432	08 843
12 8	13 44	35.0028		1	21 55 39.374			-30 50 50.34	4		9006	9843	07 451
12 8	14 10	59.1980		1	5 22 9.841			- 5 32 20.40	4		9003	7454	05 844
12 8	14 11	15.1977		1	5 29 21.492			- 6 27 41.07	4		9003	7454	09 845
12 9	13 57	26.8200		1	5 5 36.688			- 4 48 38.13	4		9003	7481	07 846
12 9	13 57	38.8198		1	5 11 26.208			- 5 33 51.16	4		9003	7481	10 847
12 9	22 36	48.9774		1	2 16 26.024			-15 14 39.71	4		9002	5870	05 608
12 9	22 37	4.9767		1	2 22 17.820			-16 18 13.64	4		9002	5870	07 609
12 10	15 55	55.2257		1	2 10 47.434			- 8 44 15.48	4		9003	7509	04 848
12 10	15 56	19.2254		1	2 17 54.828			- 9 55 55.69	4		9003	7509	07 849
12 11	2 47	43.0533		1	7 35 18.249			-15 21 2.31	4		9011	1699	04 5277

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.	R.S. NO.
1963 12 11	2	48	7.0528	1	7	42	32.499	-15	48	46.57	9011	1699	07 8648
12 11	5	5	53.3697	1	7	57	24.378	-32	45	46.70	9011	1708	05 5279
12 11	5	6	17.3693	1	8	7	29.520	-32	35	47.19	9011	1708	08 8650
11 7	2	38	54.3927	1	22	52	40.245	-30	1	54.64	9001	2469	06 9167
11 7	4	45	24.3063	1	0	12	.814	-24	18	.92	9012	1819	02 9217
12 11	7	27	53.3150	1	9	9	24.183	-31	25	7.44	9011	1712	05 5281
12 11	7	28	9.3148	1	9	15	22.601	-31	3	44.60	9011	1712	07 5282
12 12	2	34	40.3729	1	7	35	14.809	-15	42	10.13	9011	1729	03 6430
12 12	2	34	56.3723	1	7	40	6.580	-15	59	26.69	9011	1729	05 8651
12 12	4	51	53.0457	1	7	37	54.088	-33	5	41.66	9011	1737	03 5284
12 12	4	52	17.0452	1	7	48	47.041	-32	56	34.60	9011	1737	06 5285
12 12	7	15	20.8076	1	9	26	56.835	-29	13	17.23	9011	1740	04 5286
12 12	7	15	59.2102	1	9	40	11.741	-28	10	23.94	9011	1740	08 5287
12 12	15	30	14.3019	1	1	55	3.679	-11	12	44.14	9003	7546	08 850
12 12	15	30	30.3016	1	2	0	23.053	-12	5	51.98	9003	7546	12 851
12 13	4	38	1.3418	1	7	20	.786	-33	24	57.91	9011	1763	03 5288
12 13	4	38	25.3410	1	7	31	45.455	-33	16	17.92	9011	1763	06 5289
12 13	15	17	26.5203	1	1	47	30.610	-12	31	5.93	9003	7576	05 852
12 13	15	17	58.5198	1	1	58	59.609	-14	24	8.52	9003	7576	09 853
12 14	2	3	58.6323	1	5	42	36.079	-6	32	15.10	9011	1773	03 459
12 14	2	4	6.6322	1	5	46	42.029	-7	0	43.40	9011	1773	04 460
12 14	4	25	28.4500	1	7	39	38.574	-33	6	52.65	9011	1784	05 461
12 14	4	25	36.4497	1	7	43	25.157	-33	0	42.31	9011	1784	06 462
12 14	6	47	52.1465	1	9	8	28.099	-28	16	16.91	9011	1788	07 463
12 14	6	48	24.1456	1	9	19	51.442	-27	19	27.65	9011	1788	11 464
12 14	15	4	19.8992	1	1	32	39.937	-12	37	13.90	9003	7606	06 854
12 14	15	4	35.5057	1	1	38	22.495	-13	34	25.86	9003	7606	08 855
12 15	1	51	8.0570	1	5	44	34.996	-7	26	14.89	9011	1801	05 465
12 15	1	51	24.0566	1	5	52	55.837	-8	20	59.54	9011	1801	07 466
12 16	2	15	14.7778	1	10	28	7.328	-11	6	27.72	9002	5947	06 610
12 16	2	15	30.7786	1	10	32	29.968	-10	28	41.67	9002	5947	08 611
12 17	1	24	42.2479	1	5	21	.733	-6	0	33.25	9011	1820	07 1047
12 17	1	24	46.2479	1	5	23	29.908	-6	17	19.72	9011	1820	08 1048
12 17	3	45	49.3718	1	7	36	2.399	-32	44	12.07	9011	1832	09 1049
12 19	0	58	32.7147	1	5	0	11.845	-4	48	6.04	9011	1859	03 2218
12 19	0	58	44.7146	1	5	8	51.870	-5	45	39.92	9011	1859	06 2219
12 19	5	40	12.3396	1	8	33	21.210	-24	16	33.55	9011	1871	04 2220
12 19	5	40	36.3389	1	8	42	40.453	-23	21	1.46	9011	1871	07 2221
12 19	7	57	31.9647	1	7	46	31.600	-9	27	26.60	9011	1879	04 2222
12 19	7	58	11.9643	1	7	59	29.763	-8	15	13.65	9011	1879	09 2223
12 20	0	45	43.4519	1	4	58	53.801	-5	11	17.87	9011	1884	04 2224
12 20	0	45	51.4518	1	5	4	58.570	-5	50	27.34	9011	1884	06 2225
12 20	3	5	29.5651	1	7	0	6.342	-33	45	7.53	9011	1890	02 2226
12 20	3	5	37.5649	1	7	5	8.174	-33	29	0.00	9011	1890	03 2227
12 20	7	48	34.9120	1	9	2	44.858	-1	1	37.63	9011	1903	05 2228

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.	CRS. NO.
1963 12 20	7 48	58.9116	9 9 31.798	1 50 57.87	4	9011	1903	2229
12 20	7 50	8.6067	10 15 54.342	-20 15 48.21	4	9007	1575	07 1035
12 20	7 50	24.6064	10 20 23.484	-19 29 4.99	4	9007	1575	09 1036
12 21	0 32	36.0307	4 41 41.132	-3 49 40.15	4	9011	1906	05 2230
12 21	0 32	48.0306	4 51 49.089	-4 55 41.14	4	9011	1906	08 2231
12 21	5 13	15.9129	9 39 36.224	-47 10 18.32	4	9007	1592	07 1037
12 21	5 13	17.4726	8 16 46.071	-22 31 15.46	4	9011	1921	09 2232
12 21	5 13	41.4722	8 26 42.786	-21 29 20.70	4	9011	1921	12 3589
12 21	7 35	39.3430	9 4 47.507	3 50 3.89	4	9011	1929	03 2234
12 21	7 36	11.3423	9 13 41.822	4 55 31.74	4	9011	1929	07 2235
12 21	7 36	52.6610	10 13 5.283	-18 0 53.59	4	9007	1600	04 1038
12 21	7 37	16.6606	10 19 40.686	-16 49 32.91	4	9007	1600	07 1039
12 22	2 39	35.9019	7 5 21.704	-32 46 19.84	4	9011	1944	02 2236
12 22	2 39	39.9020	7 7 53.661	-32 35 19.63	4	9011	1944	03 2237
12 22	5 1	48.4869	8 52 54.333	-16 26 23.74	4	9011	1951	04 6064
12 22	5 1	56.4866	8 55 37.042	-16 5 50.59	4	9011	1951	05 6065
12 22	7 21	27.0229	8 44 18.788	4 0 38.27	4	9011	1960	07 6066
12 22	7 21	35.0227	8 46 40.252	4 17 24.64	4	9011	1960	08 6067
12 23	4 47	29.2932	8 24 20.925	-17 47 29.08	4	9011	1976	04 6068
12 23	4 47	45.2927	8 30 35.896	-17 2 53.31	4	9011	1976	06 6069
12 23	7 10	10.3862	10 3 25.753	-14 3 11.12	4	9007	1615	06 1040
12 23	7 10	18.3860	10 5 38.250	-13 38 18.72	4	9007	1615	07 1041
12 23	10 55	5.2257	2 14 43.563	-4 8 46.11	4	9003	7810	08 856
12 23	10 55	17.2255	2 32 51.588	-5 58 5.47	4	9003	7810	14 857
12 24	4 33	35.6451	8 1 48.500	-18 14 30.29	4	9011	2001	03 6070
12 24	4 33	51.6448	8 8 51.840	-17 26 45.50	4	9011	2001	05 6071
12 24	6 56	8.0634	9 46 15.979	-14 17 59.15	4	9007	1641	03 1042
12 24	9 11	9.5408	7 48 .831	0 54 55.53	4	9007	1650	04 1043
12 24	9 11	25.5405	7 52 4.252	1 33 35.67	4	9007	1650	06 1044
12 26	6 28	25.9829	9 15 2.330	-14 3 37.98	4	9007	1686	04 1045
12 26	9 0	.1145	11 17 42.268	1 47 9.81	4	9009	9822	08 456
12 27	1 33	53.9176	6 13 24.716	-34 51 40.46	4	9011	2016	03 6072
12 27	1 34	9.9172	6 28 31.106	-33 29 34.62	4	9011	2016	07 6073
12 27	3 53	58.8246	7 39 51.140	-13 46 52.61	4	9011	2027	04 6074
12 27	3 54	38.8237	7 58 45.578	-11 33 4.57	4	9011	2027	09 6075
12 27	6 14	7.8672	7 54 52.031	12 37 31.99	4	9011	2035	05 7150
12 27	6 14	23.8667	8 0 18.191	13 12 4.24	4	9011	2035	07 6076
12 27	8 37	36.6374	9 8 19.478	23 48 33.73	4	9007	1709	06 1046
12 28	1 20	50.5943	5 59 43.829	-35 42 1.19	4	9011	2046	05 1053
12 28	1 21	22.5935	6 31 35.310	-32 36 28.89	4	9011	2046	13 1054
12 28	3 41	23.9658	7 48 44.180	-10 9 33.69	4	9011	2054	05 6077
12 28	3 41	39.9656	7 56 2.526	-9 16 24.52	4	9011	2054	07 6078
12 28	6 0	46.5566	7 44 31.064	14 33 54.33	4	9011	2063	06 6079
12 28	6 1	18.5565	7 55 41.377	15 42 39.55	4	9011	2063	10 6080
12 28	10 53	52.1859	11 50 36.896	9 43 19.48	4	9010	2007	04 457

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.	CRS. NO.
1963 12 28	10	54		1	11 52	53.727		10 1	29.50	4	9010	2007	05 458
12 28	15	8	7.6985	1	11 30	48.943		7 58	27.45	4	9012	2360	05 395
12 28	15	8	11.6986	1	11 31	55.299		8 8	28.70	4	9012	2360	06 396
12 29	1	7	43.8317	1	5 37	40.062		-37 17	42.64	4	9011	2074	06 6081
12 29	1	8	7.8310	1	6 6	46.295		-34 38	57.92	4	9011	2074	12 6082
12 29	12	53	26.7527	1	12 6	46.431		10 5	44.01	4	9001	3170	04 601
12 29	12	53	42.7565	1	12 11	26.449		10 37	1.84	4	9001	3170	06 722
12 30	0	55	6.8949	1	5 51	29.165		-35 44	39.55	4	9011	2104	18 1051
12 30	0	55	8.8949	1	5 53	58.109		-35 29	36.17	4	9011	2104	19 1052
12 30	3	10	20.6294	1	3 20	42.245		-23 33	19.17	4	9011	2111	09 1050
12 30	6	13	35.6942	1	12 38	26.017		9 56	18.60	4	9004	1565	06 448
12 30	12	40	18.1523	1	12 8	3.404		12 14	11.75	4	9001	3188	03 602
12 30	12	40	42.1564	1	12 15	13.113		12 59	28.79	4	9001	3188	06 603
12 30	23	25	17.8511	1	12 6	38.985		10 38	14.37	4	9006	139	07 452
12 30	23	25	33.8510	1	12 11	15.625		11 10	14.26	4	9006	139	09 453
12 31	12	26	37.7279	1	12 0	18.380		13 18	46.74	4	9001	3205	03 604
12 31	12	26	45.7282	1	12 2	41.939		13 33	48.00	4	9001	3205	04 605
12 31	14	28	51.4981	1	11 35	52.756		16 2	10.04	4	9012	2384	03 397
12 31	14	29	3.4982	1	11 39	24.879		16 29	15.37	4	9012	2384	06 398
12 31	23	11	7.1781	1	11 50	11.840		10 43	27.03	4	9006	157	04 454
12 31	23	11	31.1789	1	11 57	7.229		11 32	3.54	4	9006	157	07 455

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.	CRS. NO.
1963 10 1	3 38 16.0088	1	7 3 15.526	64 16 21.09	4	9004	713 03	8619
10 1 1	3 38 28.0086	1	7 14 27.340	62 14 4.88	4	9004	713 06	8620
10 1 1	9 31 11.9646	1	8 45 37.129	59 33 28.75	4	9001	1876 02	7483
10 1 1	11 34 46.3539	1	6 30 31.453	57 36 32.56	4	9001	1884 02	7484
10 1 1	11 34 54.3539	1	6 39 45.180	56 18 14.02	4	9001	1884 04	7485
10 2 1	1 22 28.8999	1	5 49 9.296	55 8 37.05	4	9008	4380 02	7962
10 2 1	1 22 38.9005	1	6 1 37.767	53 43 7.60	4	9008	4380 07	7963
10 2 1	9 6 48.0992	1	8 33 23.932	57 28 36.29	4	9001	1899 05	7486
10 2 1	11 10 6.4805	1	6 30 27.571	59 47 33.23	4	9001	1906 01	7487
10 2 1	11 10 14.4818	1	6 39 26.911	58 28 2.12	4	9001	1906 03	7488
10 2 1	19 2 35.6632	1	5 2 50.482	46 14 46.98	4	9005	8945 04	7947
10 3 1	0 58 17.0262	1	6 23 14.774	53 55 44.35	4	9008	4397 05	7327
10 3 1	4 52 55.7774	1	4 27 29.827	39 9 25.00	4	9004	737 03	8621
10 3 1	4 53 11.7774	1	4 45 9.377	37 11 58.88	4	9004	737 07	8622
10 3 1	10 46 18.8154	1	7 16 46.708	52 28 16.99	4	9001	1918 04	7489
10 3 1	10 46 22.8154	1	7 19 30.720	51 44 55.80	4	9001	1918 05	7490
10 3 1	23 46 58.0820	1	17 31 42.607	12 2 48.55	4	9007	426 04	8649
10 4 1	0 33 19.1143	1	6 4 21.160	59 22 34.81	4	9008	4417 04	7328
10 4 1	0 33 23.1142	1	6 9 8.853	58 45 11.30	4	9008	4417 06	7329
10 4 1	1 56 36.5372	1	22 58 1.185	-21 34 33.27	4	9001	1924 01	7491
10 4 1	1 56 40.5365	1	22 59 23.827	-21 14 32.36	4	9001	1924 02	7492
10 4 1	2 27 11.9460	1	7 52 47.845	39 14 41.34	4	9004	750 03	8623
10 4 1	2 27 19.9457	1	7 54 31.361	38 12 43.86	4	9004	750 04	9409
10 4 1	4 28 55.2860	1	5 2 56.666	37 51 16.70	4	9004	754 04	8625
10 4 1	4 29 7.2860	1	5 15 7.338	36 4 53.08	4	9004	754 07	8626
10 4 1	10 21 41.4540	1	7 15 21.690	53 32 16.03	4	9001	1935 05	7493
10 4 1	10 21 45.4539	1	7 17 49.036	52 49 21.89	4	9001	1935 06	7494
10 4 1	13 43 28.1586	1	22 10 16.701	-25 20 10.46	4	9006	8762 03	7990
10 4 1	13 43 52.1596	1	22 20 4.017	-23 4 10.18	4	9006	8762 07	7991
10 4 1	15 44 27.4453	1	18 59 20.191	-8 34 32.01	4	9006	8766 04	9419
10 4 1	15 44 51.4457	1	19 6 40.028	-6 20 55.29	4	9006	8766 07	7993
10 4 1	19 39 6.3716	1	22 3 6.143	-26 33 10.37	4	9004	759 04	8627
10 4 1	19 39 22.3718	1	22 9 28.110	-25 18 14.29	4	9004	759 06	8628
10 4 1	22 11 .2400	10	7 21 11.790	54 40 41.71	4	9006	8772 04	7994
10 4 1	23 29 51.9206	1	20 49 56.185	-15 0 16.73	4	9009	9161 03	8358
10 5 1	0 9 19.6873	1	6 47 11.638	54 43 35.61	4	9008	4433 02	7330
10 5 1	0 9 27.6874	1	6 53 37.952	53 17 59.31	4	9008	4433 06	7331
10 5 1	2 2 50.7191	1	7 43 19.931	37 46 9.01	4	9004	764 03	8629
10 5 1	3 31 15.3326	1	19 31 55.571	-21 23 47.03	4	9001	1945 03	7495
10 5 1	3 31 23.3327	1	19 34 52.102	-20 48 49.08	4	9001	1945 04	7496
10 5 1	4 3 2.4480	1	3 27 14.131	49 59 19.01	4	9004	770 06	8630
10 5 1	4 3 10.4478	1	3 38 1.092	49 18 17.04	4	9004	770 08	8631
10 5 1	7 27 26.3272	1	17 53 49.401	5 29 36.27	4	9012	1453 06	8121
10 5 1	9 58 39.6651	1	7 51 26.249	38 12 34.68	4	9001	1950 05	7497
10 5 1	9 58 47.6650	1	7 53 46.598	36 57 31.62	4	9001	1950 07	7498

DATE	TIME (A-1)	RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	OBS. NO.
			Y	M	D	H	M	S			
1963 10 5	10 2 58.4230	1	5	8	6.045	36	23	11.74	9010	1146	06
10 5 13 57	2.3022	1	8	37	48.011	56	3	43.21	9012	1459	03
10 5 15 18	10.4648	1	22	14	18.526	-20	32	55.84	9008	4440	03
10 5 15 19	47.5764	1	18	53	16.121	-11	18	19.65	9006	8781	03
10 5 15 20	19.5768	1	19	3	46.729	-8	22	8.68	9006	8781	07
10 5 17 18	38.9383	1	18	49	47.241	-6	27	7.86	9008	4445	03
10 5 19 16	9.0805	1	22	33	11.579	-19	33	41.36	9004	775	02
10 5 19 16	25.0808	1	22	39	25.286	-18	14	33.22	9004	775	04
10 5 21 47	2.9442	1	7	39	59.093	48	27	14.23	9006	8785	04
10 5 21 47	14.9444	1	7	44	40.431	46	22	12.12	9006	8785	07
10 5 23 10	46.7742	1	23	28	43.834	23	34	28.85	9009	9179	04
10 5 23 10	50.7743	1	23	30	25.172	23	53	3.21	9009	9179	05
10 5 23 45	49.6720	1	1	13	11.443	33	7	14.59	9006	8791	03
10 5 23 45	51.5614	1	7	29	44.381	43	34	8.29	9008	4451	04
10 5 23 45	59.5616	1	7	33	16.321	42	8	59.97	9008	4451	06
10 5 23 46	1.6717	1	1	20	1.617	32	46	42.70	9006	8791	06
10 6 1 8	47.8687	1	19	55	37.181	-13	58	45.55	9010	1149	03
10 6 1 8	51.8681	1	19	57	32.684	-13	32	16.37	9010	1149	04
10 6 3 8	12.8679	1	20	6	53.351	-15	57	50.10	9001	1962	02
10 6 3 8	20.8681	1	20	10	31.389	-15	13	4.82	9001	1962	04
10 6 3 41	59.5950	1	6	41	6.348	21	27	48.31	9004	783	03
10 6 3 42	3.5952	1	6	43	8.475	20	51	26.90	9004	783	04
10 6 5 2	21.3588	1	21	46	14.689	-14	35	23.89	9012	1466	01
10 6 5 2	23.3613	1	21	47	11.334	-14	20	16.79	9012	1466	02
10 6 7 4	3.0312	1	18	4	34.597	12	11	24.55	9012	1470	02
10 6 7 4	13.0312	1	18	7	14.912	13	30	18.33	9012	1470	07
10 6 9 33	52.3357	1	7	40	53.400	40	45	53.48	9001	1966	04
10 6 9 34	8.3360	1	7	45	12.107	38	18	12.22	9001	1966	08
10 6 14 56	44.5509	1	19	24	.046	-4	30	47.17	9006	8797	04
10 6 14 56	52.5507	1	19	27	23.533	-3	35	41.45	9006	8797	06
10 6 16 54	58.9035	1	19	4	19.416	-3	12	3.05	9008	4460	06
10 6 20 51	35.0161	1	19	30	25.232	-13	23	38.71	9004	795	01
10 6 20 51	43.0159	1	19	33	21.255	-12	46	9.40	9004	795	02
10 6 21 24	14.8690	1	8	5	16.282	31	57	50.15	9006	8804	04
10 6 21 24	26.8690	1	8	7	45.217	30	15	53.58	9006	8804	07
10 7 2 44	14.0552	10	20	22	8.808	-14	36	45.83	9001	1979	05
10 7 2 44	26.0541	10	20	28	5.153	-13	24	7.53	9001	1979	08
10 7 3 18	14.8262	1	6	58	19.865	16	20	19.71	9004	800	05
10 7 3 18	18.8260	1	6	59	52.065	15	48	35.34	9004	800	06
10 7 9 10	58.7476	1	7	53	53.904	27	23	13.56	9001	1983	04
10 7 14 32	58.6628	1	19	45	57.793	-1	8	21.11	9006	8815	05
10 7 14 33	6.6630	1	19	50	.745	-0	6	34.87	9006	8815	07
10 7 16 35	18.6309	1	17	54	1.575	19	13	43.32	9006	8818	02
10 7 20 28	38.0790	1	20	7	27.456	-6	51	30.01	9004	812	03
10 7 23 1	39.8085	1	4	35	25.061	14	20	39.00	9006	8826	04

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.	OR5.NO.
1963 10 8	1 0 20.5019	1	4 27 24.869	6 34 6.24	4	9008	4483 01	8650
10 8	1 0 24.5017	1	4 30 15.833	5 58 37.50	4	9008	4483 03	8651
10 8	2 54 29.3903	1	7 8 5.090	12 4 47.21	4	9004	815 02	8337
10 8	4 22 12.8353	10	18 11 49.628	10 48 5.34	4	9001	2000 04	7918
10 8	4 22 20.8366	10	18 13 28.258	11 36 21.53	4	9001	2000 05	7919
10 8	6 16 23.0275	1	18 31 12.302	21 46 5.95	4	9012	1474 02	8127
10 8	6 16 31.0274	1	18 34 39.526	23 4 47.70	4	9012	1474 06	8128
10 8	8 21 6.686	1	17 18 20.047	42 6 19.74	4	9012	1477 02	8129
10 8	8 21 16.6687	1	17 19 2.927	43 48 56.95	4	9012	1477 06	8130
10 8	8 46 59.5884	1	7 48 35.546	24 7 43.90	4	9001	2001 05	7920
10 8	8 47 7.5883	1	7 49 45.075	23 15 57.41	4	9001	2001 07	7921
10 8	14 8 56.7559	1	20 3 55.028	0 31 58.38	4	9006	8830 03	9678
10 8	14 9 7.7563	1	20 6 9.811	1 4 11.48	4	9006	8830 04	9679
10 8	16 7 47.4296	1	19 57 57.265	6 44 47.01	4	9008	4490 04	8652
10 8	16 7 49.4296	1	19 59 5.791	7 1 49.90	4	9008	4490 05	8653
10 8	16 11 26.9412	1	17 49 53.757	22 54 44.71	4	9006	8833 03	9680
10 8	16 11 34.9413	1	17 51 7.084	23 47 31.11	4	9006	8833 04	9681
10 8	18 10 16.1082	1	17 50 6.350	25 39 28.04	4	9008	4492 03	8654
10 8	18 10 28.1082	1	17 51 46.612	26 58 21.06	4	9008	4492 06	8655
10 8	20 4 33.8330	1	20 19 46.836	- 5 53 16.79	4	9004	829 01	9414
10 8	20 4 41.8329	1	20 23 57.344	- 5 3 10.57	4	9004	829 03	8338
10 8	22 34 59.8524	1	7 55 15.245	21 2 42.45	4	9008	4494 03	8656
10 8	22 39 5.5369	1	5 54 52.702	- 0 6 18.58	4	9006	8840 05	9682
10 8	22 39 10.0980	1	6 0 25.312	- 1 28 44.76	4	9006	8840 07	9683
10 9	0 36 37.7243	1	5 2 30.869	2 13 43.81	4	9008	4498 01	726
10 9	0 36 41.7243	1	5 5 11.354	1 37 47.94	4	9008	4498 03	8657
10 9	1 57 11.6006	1	21 25 9.276	- 4 51 24.28	4	9001	2015 03	7922
10 9	1 57 27.6005	1	21 34 10.651	- 3 0 53.14	4	9001	2015 07	7923
10 9	1 59 32.8881	1	17 55 48.492	22 57 47.91	4	9010	1168 08	8730
10 9	1 59 36.8870	1	17 56 47.117	23 29 49.70	4	9010	1168 09	8731
10 9	3 58 22.5880	1	18 14 11.798	14 11 58.70	4	9001	2018 04	7924
10 9	3 58 30.5880	1	18 16 12.726	15 6 57.67	4	9001	2018 05	7925
10 9	4 32 9.7930	1	4 39 13.488	-12 23 4.89	4	9004	841 02	9415
10 9	4 32 13.7931	1	4 41 29.371	-12 48 22.71	4	9004	841 03	8339
10 9	5 52 35.6758	1	18 57 20.049	27 44 58.03	4	9012	1478 02	8131
10 9	5 52 43.6760	1	19 1 49.898	29 7 23.99	4	9012	1478 06	8132
10 9	7 57 8.1379	1	17 9 30.546	47 7 44.45	4	9012	1481 03	7733
10 9	10 24 57.6233	1	1 32 28.558	15 10 20.23	4	9010	1179 05	8732
10 9	10 25 13.6224	1	1 39 19.039	14 1 44.20	4	9010	1179 07	8733
10 9	13 45 15.4828	1	20 36 22.120	5 6 47.82	4	9006	8847 06	9684
10 9	13 45 27.4832	1	20 43 57.847	6 46 53.30	4	9006	8847 09	9685
10 9	14 23 47.7153	1	5 52 49.913	23 15 36.90	4	9012	1492 03	7734
10 9	14 23 51.7172	1	5 55 39.485	22 30 2.36	4	9012	1492 05	7735
10 9	15 43 45.8065	1	20 18 58.864	8 42 44.13	4	9008	4505 03	8658
10 9	15 43 47.8065	1	20 20 14.646	9 0 2.86	4	9008	4505 04	8659

DATE			TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	CRS.NO.	
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S				
1963	10	9	15	47	39.3261	1	17	49	5.557	27	44	51.14	4	9006	8850	03	9686
	10	9	15	47	47.3260	1	17	50	37.139	28	44	59.54	4	9006	8850	04	9687
	10	9	21	42	43.6297	1	18	22	48.780	17	34	8.24	4	9004	851	03	8340
	10	9	21	42	51.6298	1	18	24	43.928	18	25	22.03	4	9004	851	04	8341
	10	9	23	31	44.2684	1	18	2	35.149	31	32	41.69	4	9009	9200	02	8361
10	10	0	13	26.8608	1	5	53	22.406	-6	24	51.00	4	9008	4517	03	8660	
10	10	0	13	30.8609	1	5	55	32.034	-6	55	50.90	4	9008	4517	05	8661	
10	10	3	35	.2953	1	18	29	59.836	21	57	34.07	4	9001	2032	06	7453	
10	10	3	35	4.2953	1	18	31	23.753	22	30	51.16	4	9001	2032	07	7454	
10	10	4	8	28.4020	1	5	4	8.170	-15	33	19.90	4	9004	857	03	8100	
10	10	4	8	40.4018	1	5	10	22.279	-16	41	43.02	4	9004	857	06	8101	
10	10	5	27	45.1668	1	18	53	10.143	22	43	32.91	4	9012	1496	04	7736	
10	10	5	27	59.1669	1	19	1	17.771	25	7	28.40	4	9012	1496	11	7737	
10	10	7	32	37.5703	1	17	0	1.677	48	5	31.06	4	9012	1497	02	8117	
10	10	7	32	57.5699	1	17	1	20.626	50	30	15.72	4	9012	1497	07	8118	
10	10	8	3	56.0971	1	7	26	20.735	11	23	21.95	4	9010	1183	04	8734	
10	10	8	4	8.0973	1	7	29	43.419	9	48	36.43	4	9010	1183	07	8735	
10	10	10	2	40.7698	10	6	54	33.666	-7	7	12.94	4	9001	2042	06	7455	
10	10	12	1	29.1937	1	2	48	6.541	-11	1	11.54	4	9001	2050	01	7456	
10	10	12	1	49.1931	10	2	56	50.943	-13	1	44.88	4	9001	2050	06	7457	
10	10	13	21	14.4692	1	20	57	26.752	6	51	38.28	4	9006	8863	04	9688	
10	10	13	21	30.4696	1	21	7	49.164	8	59	47.00	4	9006	8863	08	9689	
10	10	14	0	20.9026	1	6	38	50.871	13	53	55.01	4	9012	1501	02	8119	
10	10	14	0	24.9024	1	6	40	57.678	13	10	47.25	4	9012	1501	04	8120	
10	10	15	19	51.5230	1	20	46	5.219	11	31	19.64	4	9008	4522	02	8662	
10	10	15	19	55.5230	1	20	48	47.612	12	4	43.93	4	9008	4522	04	8663	
10	10	15	23	34.4709	1	17	48	17.221	31	3	13.16	4	9006	8867	03	192	
10	10	15	23	50.4711	1	17	52	7.738	33	16	16.65	4	9006	8867	07	193	
10	10	17	22	29.6410	1	17	47	12.162	34	54	14.13	4	9008	4526	02	7964	
10	10	17	22	41.6412	1	17	49	51.186	36	33	35.78	4	9008	4526	05	9410	
10	10	19	17	42.3604	1	21	33	30.127	4	54	41.34	4	9004	865	03	8102	
10	10	19	17	50.3601	1	21	38	34.458	5	47	43.52	4	9004	865	05	9416	
10	10	21	18	51.3809	1	18	26	14.748	21	19	58.50	4	9004	869	04	8103	
10	10	21	19	7.3805	1	18	31	7.457	23	17	36.63	4	9004	869	06	8104	
10	10	21	51	50.1413	1	6	48	27.204	-8	56	24.27	4	9006	8870	04	194	
10	10	21	51	58.1415	1	6	51	27.584	-9	46	14.52	4	9006	8870	05	195	
10	10	23	49	49.1691	1	6	20	14.222	-10	15	50.78	4	9008	4530	02	7339	
10	10	23	50	1.1692	1	6	25	31.956	-11	34	17.57	4	9008	4530	05	7340	
10	11	3	10	57.1384	1	18	39	19.300	25	6	58.50	4	9001	2056	02	7458	
10	11	3	11	9.1384	1	18	44	40.423	26	55	52.69	4	9001	2056	05	7459	
10	11	7	8	34.0369	1	16	54	4.645	52	30	51.51	4	9012	1512	04	7825	
10	11	7	8	42.0369	1	16	54	47.959	53	31	54.53	4	9012	1512	06	7826	
10	11	11	38	32.0403	1	3	22	44.474	-19	26	17.91	4	9001	2068	02	7460	
10	11	11	38	36.0404	1	3	24	36.152	-19	50	51.95	4	9001	2068	03	7461	
10	11	13	37	15.2173	1	7	18	14.982	2	32	51.41	4	9012	1516	03	7827	

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.	OR.S. NO.
1963 10 11	13 37	23.2172	1	7 21 11.158	4	9012	1516	7828
10 11	14 59	40.8194	10	17 54 24.664	4	9006	8884	7954
10 11	23 26	33.0419	1	6 47 53.658	4	9008	4538	7341
10 11	23 26	41.0419	1	6 50 39.623	4	9008	4538	7695
10 12	0 48	8.4643	1	18 47 50.041	4	9010	1192	727
10 12	1 26	41.8087	1	3 14 9.821	4	9008	4542	7342
10 12	1 26	45.8092	1	3 15 43.666	4	9008	4542	7343
10 12	2 46	33.4376	1	18 43 8.499	4	9001	2073	7462
10 12	2 46	41.4376	1	18 47 11.182	4	9001	2073	7463
10 12	6 44	3.6383	1	16 47 52.860	4	9012	1531	7829
10 12	6 44	15.6382	1	16 49 23.044	4	9012	1531	7830
10 12	9 18	7.6872	1	4 44 55.991	4	9010	1202	8738
10 12	9 18	15.6878	1	4 49 16.803	4	9010	1202	8739
10 12	10 40	15.8966	1	18 53 52.796	4	9005	8990	7948
10 12	13 13	32.9181	1	7 31 40.773	4	9012	1536	7831
10 12	13 13	44.9181	1	7 35 11.712	4	9012	1536	7832
10 12	14 35	53.9857	1	18 10 45.459	4	9006	8899	7507
10 12	14 36	5.9862	1	18 16 27.664	4	9006	8899	7508
10 12	16 39	17.1708	1	17 14 4.622	4	9006	8901	7808
10 12	16 39	25.1712	1	17 14 30.647	4	9006	8901	7809
10 12	20 30	52.8829	1	18 42 19.213	4	9004	897	8105
10 12	20 31	4.8829	1	18 48 8.523	4	9004	897	8106
10 13	2 22	43.3445	1	19 9 9.409	4	9001	2084	7464
10 13	2 22	47.3446	1	19 11 47.234	4	9001	2084	7465
10 13	2 27	8.5113	1	16 53 35.374	4	9010	1208	8740
10 13	2 27	16.5102	1	16 54 6.540	4	9010	1208	8741
10 13	4 25	56.5237	1	17 25 7.560	4	9001	2088	9407
10 13	4 26	4.5240	1	17 26 14.791	4	9001	2088	7467
10 13	14 11	11.3625	10	18 7 33.241	4	9006	8910	7509
10 13	14 11	23.3630	10	18 13 45.878	4	9006	8910	7510
10 13	14 50	36.7732	1	3 43 1.899	4	9012	1558	7833
10 13	14 50	42.7733	1	3 45 56.883	4	9012	1558	9421
10 13	16 15	19.0503	10	17 2 59.813	4	9006	8912	7511
10 13	16 15	35.0504	10	17 3 53.081	4	9006	8912	7512
10 13	20 6	54.4300	1	18 59 28.972	4	9004	922	8107
10 13	20 7	6.4303	1	19 6 58.944	4	9004	922	8108
10 13	22 9	27.7382	1	17 44 11.303	4	9004	923	8109
10 13	22 9	51.7379	1	17 48 21.479	4	9004	923	8110
10 13	22 41	57.7885	1	4 27 42.913	4	9006	8920	7513
10 13	22 42	13.7891	1	4 35 6.006	4	9006	8920	7514
10 13	23 58	52.9450	1	18 53 36.652	4	9010	1219	8742
10 13	23 58	56.9458	1	18 56 29.231	4	9010	1219	8743
10 14	4 1	27.8879	1	17 15 28.658	4	9001	2111	7468
10 14	5 54	57.5652	1	16 40 5.345	4	9012	1566	7835
10 14	5 55	1.5652	1	16 40 59.389	4	9012	1566	7836

DATE			TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	CRS.NO.	
Y	M	D	H	M	S	MS	H	M	S	D	M	S				
1963	10	14	15	51	29.6807	1	16	53	36.106	55	35	30.67	4	8933	02	7515
	10	14	15	51	53.6811	1	16	55	5.817	58	39	3.04	4	8933	05	7516
	10	14	17	49	25.0554	1	16	52	52.139	50	30	19.21	4	4585	03	7344
	10	14	17	49	33.0554	1	16	53	20.001	51	26	4.13	4	4585	04	7696
	10	14	19	43	5.6781	1	19	31	43.235	38	6	25.47	4	942	04	8111
	10	14	19	43	21.6777	1	19	45	11.143	40	28	26.47	4	942	08	8112
	10	14	21	45	39.9778	1	17	40	44.901	41	37	18.02	4	945	02	9417
	10	14	21	45	55.9791	1	17	44	14.467	43	34	7.68	4	945	04	8114
	10	15	1	34	11.5259	1	19	41	17.150	31	38	27.20	4	2125	01	8910
	10	15	1	34	19.5318	1	19	47	51.575	32	48	36.98	4	2125	03	8911
10	15	3	37	37.5603	1	17	14	31.869	48	25	56.71	4	2129	02	8912	
10	15	3	37	45.5602	1	17	16	18.528	49	33	27.16	4	2129	04	8913	
10	15	5	30	28.0163	1	16	40	18.449	56	53	50.34	4	1584	04	7837	
10	15	5	30	30.0163	1	16	40	54.049	57	11	10.71	4	1584	05	7838	
10	15	8	11	1.9710	1	6	8	50.568	-30	19	37.34	4	9264	02	7336	
10	15	8	19	58.2495	1	8	53	53.033	18	46	45.44	4	985	03	7738	
10	15	14	3	46.8848	1	4	54	36.515	-38	51	35.61	4	1593	03	7839	
10	15	14	3	58.8847	1	5	1	.104	-39	56	32.42	4	1593	06	7840	
10	15	17	25	29.5221	1	16	43	4.523	55	54	16.14	4	4605	01	8342	
10	15	17	25	48.6511	1	16	44	19.904	58	20	18.35	4	4605	05	8343	
10	15	19	18	34.3969	1	19	35	24.937	36	42	14.65	4	964	02	8115	
10	15	19	18	46.3968	1	19	45	50.610	38	24	52.32	4	964	06	8116	
10	15	21	21	2.2338	1	17	28	46.329	41	27	31.43	4	967	04	7926	
10	15	21	21	10.2335	1	17	30	36.309	42	26	58.91	4	967	05	7927	
10	16	7	47	55.7021	1	6	57	33.645	-35	22	25.22	4	9274	01	7337	
10	16	7	48	7.7019	1	7	3	22.918	-36	18	46.24	4	9274	04	8313	
10	16	14	56	44.1369	1	18	27	59.785	47	23	3.45	4	4619	01	8344	
10	16	14	56	46.1370	1	18	29	35.320	47	42	15.87	4	4619	02	8345	
10	16	17	0	57.1284	1	16	32	8.016	56	58	51.88	4	4623	04	8346	
10	16	17	1	1.1284	1	16	32	28.782	57	30	7.01	4	4623	05	8347	
10	16	20	57	21.6591	1	17	33	20.700	48	52	7.95	4	990	08	7928	
10	16	20	57	25.6592	1	17	34	40.050	49	25	59.04	4	990	09	9408	
10	17	16	37	7.2599	1	16	27	19.943	63	55	51.17	4	4643	01	9423	
10	17	16	37	15.2602	1	16	28	22.891	65	3	7.56	4	4643	03	8349	
10	17	16	41	42.0358	1	16	53	30.935	54	12	27.62	4	8957	01	8308	
10	17	20	33	6.4125	1	17	32	29.954	52	3	47.40	4	1008	02	7936	
10	17	20	33	14.4125	1	17	35	54.112	53	15	17.39	4	1008	04	7937	
10	18	0	25	10.7438	1	16	23	14.369	58	28	19.26	4	1262	04	8744	
10	18	0	25	18.7440	1	16	25	25.038	59	39	32.27	4	1262	06	8745	
10	18	1	7	31.8461	10	6	28	5.116	42	48	17.80	4	5262	03	7501	
10	18	14	14	14.4483	1	16	30	38.319	67	58	8.84	4	8970	03	8309	
10	18	14	14	26.4483	1	16	34	16.976	69	44	27.88	4	8970	06	8310	
10	18	16	12	57.1768	1	16	25	4.581	68	28	17.99	4	4660	02	8350	
10	18	16	13	9.1771	1	16	27	49.623	70	12	58.70	4	4660	05	8351	
10	18	16	17	33.9271	1	16	37	1.665	57	38	48.44	4	8973	02	8311	

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.NO.
1963 10 18	16 17 41.9270	1	16 37 18.669	58 28 42.61	4	9006	8973	8312
10 19	0 0 49.7430	1	16 26 21.344	61 12 43.85	4	9010	1269	7743
10 19	0 0 53.7434	1	16 27 53.584	61 49 8.40	4	9010	1269	7744
10 19	0 43 42.1720	10	6 42 16.248	39 36 47.46	4	9002	5285	7502
10 19	2 6 47.4560	1	15 40 6.565	70 47 41.37	4	9010	1274	7745
10 19	8 41 38.4707	1	5 12 31.075	20 57 32.15	4	9011	1044	7739
10 19	8 41 50.4706	1	5 18 20.303	19 51 43.13	4	9011	1044	7740
10 19	13 49 44.7432	1	16 31 38.384	69 42 32.07	4	9006	8989	7522
10 19	13 49 56.7436	1	16 37 7.039	71 30 3.35	4	9006	8989	7523
10 19	15 48 26.0678	1	16 23 1.957	70 3 37.58	4	9008	4682	8352
10 19	15 53 43.2627	10	16 20 22.195	63 18 33.11	4	9006	8992	7810
10 19	17 51 47.4395	1	16 29 23.178	59 18 4.34	4	9008	4687	8353
10 19	17 52 3.4397	1	16 30 5.836	61 1 1.04	4	9008	4687	8354
10 19	19 44 50.3887	1	17 55 49.773	61 0 4.04	4	9004	1025	7938
10 19	19 44 54.3889	1	17 59 13.117	61 37 9.54	4	9004	1025	7939
10 19	21 47 12.7794	1	17 17 21.915	47 50 16.21	4	9004	1030	7940
10 19	21 47 28.7794	1	17 21 9.117	49 31 12.15	4	9004	1030	7941
10 20	0 24 40.5751	10	8 34 25.843	8 24 24.88	4	9002	5307	7503
10 20	8 20 31.8826	1	7 12 33.160	- 0 55 15.87	4	9011	1070	9422
10 20	8 20 39.8825	1	7 18 3.485	- 2 0 30.50	4	9011	1070	7742
10 20	9 29 36.7168	1	18 5 30.277	61 23 2.68	4	9005	9029	7949
10 20	9 30 4.7174	1	18 37 36.383	65 27 18.08	4	9005	9029	7950
10 20	13 24 26.9418	1	16 14 34.352	64 7 14.93	4	9006	9009	7811
10 20	13 24 38.9421	1	16 19 13.409	65 56 18.67	4	9006	9009	7812
10 20	15 23 12.5375	1	16 8 35.164	65 17 10.35	4	9008	4702	8355
10 20	15 23 20.5375	1	16 11 8.194	66 28 39.01	4	9008	4702	8356
10 20	15 29 27.6157	1	16 2 33.594	66 31 7.95	4	9006	9014	7813
10 20	15 29 35.6160	1	16 2 19.645	67 28 11.42	4	9006	9014	7814
10 20	19 20 18.9138	1	17 59 15.295	61 40 50.04	4	9004	1047	7942
10 20	19 20 22.9140	1	18 3 11.110	62 17 10.63	4	9004	1047	7943
10 20	21 23 18.6750	1	17 11 51.911	53 3 52.56	4	9004	1052	7944
10 20	21 23 34.6753	1	17 16 40.814	54 57 27.73	4	9004	1052	7945
10 21	3 15 20.1331	1	16 13 22.716	61 15 4.34	4	9001	2201	8914
10 21	3 15 36.1328	1	16 15 43.208	63 21 10.94	4	9001	2201	8915
10 21	7 56 44.9162	1	7 39 5.586	- 4 8 24.73	4	9011	1097	8749
10 21	7 57 9.161	1	7 49 50.086	- 6 8 51.95	4	9011	1097	8750
10 21	13 2 7.2752	1	19 46 5.603	82 45 4.52	4	9006	9024	7815
10 21	13 2 15.2754	1	20 23 15.182	83 10 19.47	4	9006	9024	7816
10 21	14 58 50.9443	1	16 12 44.629	68 9 33.82	4	9008	4719	8001
10 21	17 41 1.1671	1	5 50 20.887	30 35 57.81	4	9003	6594	7719
10 21	17 41 9.1668	1	5 54 13.844	29 53 18.09	4	9003	6594	7720
10 21	18 56 23.5823	1	18 52 50.141	67 3 25.23	4	9004	1068	7983
10 21	18 56 27.5824	1	18 59 14.859	67 32 23.63	4	9004	1068	7984
10 21	20 59 2.2640	1	17 1 43.352	55 54 6.39	4	9004	1075	7985
10 21	20 59 16.2662	1	17 7 16.161	57 54 56.49	4	9004	1075	7986

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.	NRS.NO.
1963 10 22	2 51 21.9293	1	16 6 49.967	67 11 22.45	9001	2219 03	8916
10 22	2 51 33.9295	1	16 9 22.654	68 52 22.17	9001	2219 06	8917
10 22	14 41 22.2214	1	15 19 39.009	76 45 52.65	9006	9042 06	7817
10 22	14 41 30.2208	1	15 17 13.560	77 48 8.43	9006	9042 07	7818
10 22	17 17 44.9986	1	6 23 10.065	24 28 18.33	9003	6609 05	7721
10 22	17 18 .9983	1	6 30 52.471	22 50 58.68	9003	6609 09	7722
10 22	20 34 23.4282	1	16 46 36.416	56 32 13.42	9004	1096 02	9418
10 22	20 34 39.4280	1	16 52 18.934	58 36 18.65	9004	1096 04	7987
10 23	2 26 55.2668	10	15 57 55.712	69 25 51.12	9001	2231 04	8918
10 23	2 27 7.2670	10	16 1 14.952	71 9 34.51	9001	2231 07	8919
10 23	9 8 2.9108	10	3 0 37.976	-62 45 41.41	9007	738 15	8748
10 23	14 16 57.4494	1	14 57 50.056	79 18 25.59	9006	9058 02	7819
10 23	14 17 37.4495	1	14 19 48.823	84 30 27.14	9006	9058 07	7820
10 23	16 54 31.7033	1	6 53 42.867	17 27 13.63	9003	6627 09	7723
10 23	16 54 35.7030	1	6 55 33.042	17 2 10.91	9003	6627 10	7724
10 23	20 10 29.4678	1	16 50 4.917	62 57 16.45	9004	1117 02	7988
10 23	20 10 37.4674	1	16 54 17.001	64 4 20.77	9004	1117 04	7989
10 24	0 5 30.0354	1	10 7 11.346	87 14 33.60	9010	1326 04	7746
10 24	0 47 1.8786	10	5 40 37.572	3 52 54.11	9002	5352 04	7504
10 24	2 2 45.8769	1	15 58 46.524	74 16 37.90	9001	2247 05	8920
10 24	2 2 49.8768	1	16 0 40.254	74 52 5.59	9001	2247 06	8921
10 24	4 5 18.9013	1	16 41 20.450	56 0 18.19	9001	2252 02	8922
10 24	4 5 26.9016	1	16 43 12.215	56 47 54.00	9001	2252 03	8923
10 24	8 43 36.6062	1	3 13 28.440	-64 5 49.31	9007	755 04	2890
10 24	8 43 44.6060	1	3 18 43.283	-65 17 51.59	9007	755 06	8747
10 25	15 31 13.0729	1	16 35 19.925	67 44 50.13	9006	9073 07	7821
10 25	15 31 21.0729	1	16 37 51.830	68 37 34.56	9006	9073 08	7822
10 25	17 28 51.0303	1	16 37 40.998	60 41 8.87	9008	4778 03	9424
10 26	0 0 24.6623	10	7 9 38.722	-10 38 50.43	9002	5399 02	7505
10 26	0 0 32.6623	10	7 14 27.545	-11 34 34.30	9002	5399 04	7506
10 26	1 17 57.5019	1	2 34 52.955	64 52 29.08	9001	2270 02	8924
10 26	1 18 21.5022	1	2 40 21.996	62 0 44.44	9001	2270 05	8925
10 26	1 19 41.4933	1	14 55 51.080	76 57 11.83	9010	1354 05	7747
10 26	1 19 49.4933	1	14 53 9.962	77 52 56.84	9010	1354 06	4204
10 26	1 58 30.0285	10	1 50 29.895	-8 55 48.30	9002	5402 02	7930
10 26	1 58 54.0285	10	1 55 12.696	-11 42 21.60	9002	5402 05	9411
10 26	3 16 45.4828	1	16 11 30.005	62 2 2.87	9001	2277 01	7946
10 26	7 58 23.5755	1	6 9 14.950	-48 51 37.99	9011	1116 05	8757
10 26	15 1 40.9317	1	14 20 18.169	81 25 1.21	9008	4790 04	8003
10 26	17 5 2.9272	1	16 29 7.971	66 44 11.92	9008	4797 05	8004
10 26	17 42 48.1027	1	3 51 25.894	-0 27 38.33	9003	6660 06	7725
10 26	17 42 50.1027	1	3 52 31.796	-0 44 9.23	9003	6660 07	7726
10 26	23 37 16.1691	10	7 46 57.104	-16 9 58.78	9002	5418 03	7932
10 26	23 37 24.1677	10	7 51 8.511	-16 50 58.53	9002	5418 04	7933
10 27	2 53 .3480	1	16 7 57.862	69 13 16.09	9001	2300 02	8926

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.	OR.S.NO.
1963 10 27	2 53 24.3486	1	16 18 53.311	72 17 5.75	9001	2300	05 8927
10 27	6 53 29.6709	1	13 25 17.705	84 55 19.09	9012	1686	03 7841
10 27	6 53 41.6709	1	12 43 3.891	85 52 48.64	9012	1686	06 7842
10 27	7 31 46.9918	1	6 40 2.523	-72 11 26.63	9007	787	07 8746
10 27	14 42 42.3024	1	16 1 16.816	75 3 31.59	9006	9089	05 7823
10 27	14 42 50.3024	1	16 4 28.764	76 2 28.15	9006	9089	06 7824
10 27	17 19 6.1654	1	4 22 53.160	- 4 58 28.00	9003	6681	07 7727
10 27	17 19 8.1656	1	4 24 12.442	- 5 16 34.36	9003	6681	08 7728
10 28	2 29 11.7224	1	16 14 14.591	76 39 42.85	9001	2316	05 8613
10 28	2 29 23.7224	1	16 24 54.768	78 16 44.31	9001	2316	08 8614
10 28	7 10 8.4156	1	7 14 10.185	-46 44 30.22	9011	1134	08 8753
10 28	7 10 20.4153	1	7 28 37.348	-47 29 56.44	9011	1134	12 8754
10 28	16 56 8.2181	1	5 33 30.171	-16 12 16.55	9003	6708	10 7729
10 28	16 56 10.2180	1	5 35 6.706	-16 29 41.96	9003	6708	11 7730
10 29	2 4 36.4165	1	15 56 8.777	78 2 58.81	9001	2323	04 8615
10 29	2 4 52.4174	1	16 12 24.714	80 14 19.50	9001	2323	08 8616
10 29	6 46 .6064	1	7 36 42.580	-44 19 6.42	9011	1150	05 8755
10 29	6 46 16.6059	1	7 53 46.232	-44 59 32.89	9011	1150	09 8756
10 29	13 54 51.1049	1	16 41 16.562	88 9 4.84	9006	9128	03 7955
10 29	13 55 7.1052	1	23 22 53.717	89 3 4.23	9006	9128	05 7956
10 30	1 40 44.2406	1	17 5 34.840	85 12 24.91	9001	2346	04 8617
10 30	1 41 4.2407	1	19 34 27.741	87 1 59.03	9001	2346	09 8618
10 30	5 41 14.9390	1	5 3 51.075	79 6 58.44	9012	1712	04 8760
10 30	5 41 34.9393	1	4 46 34.642	77 5 38.96	9012	1712	09 8761
10 31	0 1 .2360	10	4 35 50.256	-50 14 13.12	9002	5450	02 7934
10 31	0 1 8.2368	10	4 45 10.384	-51 19 24.32	9002	5450	04 9412
10 31	5 17 24.0526	1	4 18 31.254	73 21 42.38	9012	1730	06 8357
10 31	5 58 3.1068	1	8 15 42.746	-39 12 54.50	9011	1166	06 8751
10 31	5 58 27.1066	1	8 33 59.344	-39 35 4.47	9011	1166	12 8752
10 31	8 0 1.1236	1	3 20 49.755	-73 33 17.07	9011	1167	09 8758
10 31	8 0 13.1234	1	3 39 46.768	-75 27 39.38	9011	1167	12 8759
10 31	13 6 15.6462	1	2 49 50.982	84 8 40.86	9006	9169	02 7957
10 31	13 6 35.6466	1	2 46 11.365	81 21 27.41	9006	9169	07 7958
10 31	15 45 31.1863	1	7 26 35.987	-24 32 16.36	9003	6752	03 7731
10 31	15 45 35.1864	1	7 29 6.413	-24 47 17.82	9003	6752	04 7732
11 1	0 56 45.0599	1	16 36 1.145	76 17 44.24	9010	1449	09 180
11 1	0 56 53.0599	1	16 44 30.436	77 8 23.63	9010	1449	10 181
11 1	4 52 47.9402	1	4 4 7.839	72 19 30.81	9012	1741	06 1258
11 1	4 52 51.9430	1	4 2 29.104	71 54 53.52	9012	1741	07 1259
11 2	6 29 39.7585	1	17 27 59.996	76 10 6.28	9012	1760	04 1503
11 2	6 29 51.7584	1	17 42 59.766	77 6 19.03	9012	1760	07 1504
11 2	14 20 10.8070	1	18 18 59.811	71 28 38.78	9006	9200	04 9597
11 2	14 20 34.8082	1	18 59 24.508	72 56 10.13	9006	9200	07 9598
11 2	16 56 20.1490	1	2 8 15.594	-41 40 1.99	9003	6796	11 9271
11 2	16 56 24.1491	1	2 10 38.180	-42 24 24.64	9003	6796	12 9272

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.	ORS.NO.
1963 11 3	6	5	52.1621	1	18 35	46.405		81 54	56.05		9012	1772	03
11 3	6	6	4.1621	1	19 12	46.890		82 33	15.10		9012	1772	06
11 3	6	46	52.0521	1	5 28	32.587		-75 6	41.23		9011	1186	07
11 3	6	46	56.0521	1	5 40	3.513		-75 20	52.70		9011	1186	08
11 3	9	59	11.7657	1	18 45	38.255		60 33	44.45		9005	9110	03
11 3	9	59	19.7658	1	18 56	16.499		60 52	6.59		9005	9110	05
11 3	13	56	2.9510	1	19 0	21.299		75 33	21.41		9006	9220	03
11 3	13	56	18.9513	1	19 38	35.310		76 7	54.53		9006	9220	07
11 3	15	54	13.9924	1	18 26	46.111		70 42	3.20		9008	4885	06
11 3	15	54	17.9925	1	18 33	8.507		70 55	48.66		9008	4885	07
11 3	16	32	9.9568	1	2 26	43.840		-44 36	56.22		9003	6819	04
11 3	16	32	19.9566	1	2 34	35.595		-46 26	51.42		9003	6819	09
11 4	0	24	56.6429	1	0 19	55.234		-49 18	49.11		9002	5511	06
11 4	0	25	4.6425	1	0 21	7.835		-50 32	25.85		9002	5511	07
11 4	1	42	11.9432	1	18 57	21.169		76 44	3.13		9001	2397	02
11 4	1	42	19.9433	1	19 19	33.528		77 1	6.55		9001	2397	04
11 4	3	44	17.5836	1	18 27	57.515		37 38	49.87		9001	2402	03
11 4	3	44	33.6172	1	18 36	55.892		37 36	56.30		9001	2402	05
11 4	5	41	59.8459	1	22 7	.201		84 25	48.21		9012	1780	03
11 4	5	42	15.8460	1	23 12	30.621		83 24	34.24		9012	1780	07
11 4	6	23	33.4327	1	8 41	15.995		-71 19	54.15		9011	1209	11
11 4	6	23	37.4328	1	8 48	27.063		-71 1	11.79		9011	1209	12
11 4	13	31	38.2307	1	19 28	59.049		78 10	55.07		9006	9242	06
11 4	13	31	46.2307	1	19 52	51.427		78 18	42.73		9006	9242	08
11 4	16	8	31.3797	1	3 25	4.029		-52 14	23.72		9003	6836	10
11 4	16	8	49.3796	1	3 47	8.983		-54 53	41.98		9003	6836	19
11 5	0	0	46.8570	1	0 19	36.480		-53 19	50.73		9002	5533	04
11 5	0	1	2.8565	1	0 23	14.415		-55 55	47.38		9002	5533	08
11 5	1	18	23.0417	1	21 33	13.490		77 42	56.07		9001	2416	02
11 5	1	18	31.0425	1	21 55	36.079		77 5	32.13		9001	2416	04
11 5	3	20	20.4181	10	18 33	7.609		40 11	52.88		9001	2425	04
11 5	3	20	28.4174	10	18 38	17.401		40 10	19.34		9001	2425	05
11 5	5	18	10.1851	1	1 2	29.279		80 2	13.95		9012	1794	03
11 5	5	18	26.1853	1	1 18	13.473		78 4	41.71		9012	1794	07
11 5	5	58	25.6154	1	7 21	20.794		-70 37	9.75		9011	1226	04
11 5	5	59	1.6149	1	8 28	3.080		-68 35	36.73		9011	1226	13
11 5	23	37	4.4513	1	0 34	46.307		-62 12	1.72		9002	5557	10
11 5	23	37	16.4518	1	0 40	3.699		-64 12	41.06		9002	5557	13
11 6	2	56	23.0876	1	18 43	42.906		42 56	16.72		9001	2446	04
11 6	2	56	43.0878	1	18 59	12.468		42 43	52.46		9001	2446	09
11 6	4	54	27.0565	1	1 49	8.126		72 25	25.18		9012	1811	03
11 6	4	54	43.0568	1	1 53	33.653		70 18	48.85		9012	1811	07
11 6	5	34	1.2054	1	7 28	54.739		-67 23	21.46		9011	1239	06
11 6	5	34	17.2052	1	7 55	10.598		-66 33	10.85		9011	1239	10
11 6	14	46	9.4143	1	19 8	53.901		41 9	7.27		9006	9285	07

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.	NRS. NO.
1963 11 6	14 46	17.4151	19 14 46.545	40 56 47.98	4	9006	9285	410
11 6	15 20	40.2173	5 14 45.041	-54 21 57.92	4	9003	6863	9277
11 6	15 20	52.2172	5 31 17.862	-54 59 36.03	4	9003	6863	9278
11 6	17 18	45.7213	23 49 54.153	-27 32 .80	4	9003	6868	9279
11 6	17 19	17.7209	23 52 54.075	-30 51 9.13	4	9003	6868	9280
11 6	23 13	5.1788	1 2 15.665	-68 15 26.33	4	9002	5583	385
11 6	23 13	21.1790	1 16 27.429	-70 49 15.20	4	9002	5583	386
11 7	0 34	54.9974	19 36 46.010	63 21 4.44	4	9010	1496	182
11 7	0 35	18.9959	20 10 27.788	62 57 37.44	4	9010	1496	183
11 7	2 32	50.8188	19 24 44.394	45 7 25.79	4	9001	2468	868
11 7	2 33	2.8186	19 36 7.896	44 43 24.97	4	9001	2468	869
11 7	2 37	7.8018	19 14 40.167	19 39 20.61	4	9010	1501	184
11 7	2 37	31.8020	19 23 56.962	18 23 4.44	4	9010	1501	185
11 7	6 31	3.0609	18 37 50.012	52 59 50.85	4	9012	1823	1513
11 7	6 31	15.0612	18 46 19.798	53 3 3.42	4	9012	1823	1514
11 7	14 56	36.3210	5 48 29.534	-51 56 53.00	4	9003	6893	9281
11 7	14 56	46.3207	6 0 34.085	-52 12 12.50	4	9003	6893	9282
11 7	16 54	39.8949	23 40 46.441	-30 2 29.02	4	9003	6897	9283
11 7	16 54	51.8947	23 42 1.739	-31 22 34.74	4	9003	6897	9284
11 7	20 15	40.7274	19 18 44.760	22 18 20.17	4	9004	1221	4288
11 8	0 10	59.2238	20 37 17.009	65 18 55.68	4	9010	1516	186
11 8	0 11	11.2240	20 55 53.007	64 39 1.05	4	9010	1516	187
11 8	2 13	38.1350	19 25 56.284	18 20 46.08	4	9010	1522	424
11 8	2 13	54.1357	19 32 51.774	17 18 14.89	4	9010	1522	1323
11 8	13 58	53.3126	20 31 59.473	42 49 34.27	4	9006	9310	9930
11 8	13 58	57.3128	20 35 53.752	42 29 41.11	4	9006	9310	9931
11 8	14 32	48.5416	6 28 1.165	-48 59 22.36	4	9003	6916	9285
11 8	14 33	4.5410	6 43 26.299	-48 58 57.72	4	9003	6916	9286
11 8	15 56	50.6287	19 53 37.008	38 55 15.45	4	9008	4927	9954
11 8	15 56	56.6288	19 58 46.387	38 31 24.42	4	9008	4927	9955
11 8	16 1	43.8818	19 55 20.017	1 39 22.98	4	9006	9313	9932
11 8	16 2	31.8845	20 12 11.109	-2 12 1.08	4	9006	9313	9933
11 8	16 30	46.5003	23 34 25.881	-34 24 4.47	4	9003	6920	9287
11 8	16 31	2.4999	23 36 27.004	-36 24 38.34	4	9003	6920	9288
11 8	19 52	39.1138	20 9 54.242	18 4 4.47	4	9004	1240	4289
11 8	19 52	51.1137	20 18 15.344	16 56 55.81	4	9004	1240	4290
11 8	23 47	57.6167	22 52 51.206	57 53 1.21	4	9010	1538	1240
11 8	23 48	1.6162	22 56 48.337	57 18 31.09	4	9010	1538	1241
11 9	1 44	51.2956	20 29 28.552	48 10 50.90	4	9001	2482	870
11 9	1 44	55.2954	20 34 .466	47 50 49.85	4	9001	2482	871
11 9	1 49	48.7539	19 33 7.019	17 51 42.54	4	9010	1544	1242
11 9	1 49	56.7529	19 36 56.765	17 15 45.53	4	9010	1544	1243
11 9	7 46	39.0242	19 34 35.762	11 55 11.15	4	9012	1830	1515
11 9	7 46	55.0243	19 39 44.453	10 48 7.92	4	9012	1830	1516
11 9	13 35	16.5600	21 29 34.651	40 13 57.60	4	9006	9358	9934

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.	ORS. NO.
	H	M	S		H	M	S	D	M	S			
1963 11 9	13	35	32.5605	1	21	44	24.225	38	8	35.14	9006	9358	9935
11 9	14	8	31.2619	1	6	28	21.717	-45	36	39.69	9003	6938	9289
11 9	14	8	47.2617	1	6	41	48.890	-45	37	4.38	9003	6938	9290
11 9	15	33	24.7959	1	20	52	7.775	36	39	39.23	9008	4943	9956
11 9	15	37	53.1286	1	19	58	4.798	-0	12	30.14	9006	9365	9936
11 9	15	38	25.1301	1	20	10	9.082	-3	0	5.93	9006	9365	9937
11 9	16	6	27.0872	1	23	26	33.513	-35	57	26.06	9003	6942	9779
11 9	16	6	35.0870	1	23	27	44.548	-37	1	7.02	9003	6942	9780
11 10	1	22	10.5400	1	22	25	19.839	36	37	43.92	9001	2491	872
11 10	1	22	16.5399	1	22	30	1.986	35	41	33.31	9001	2491	873
11 10	3	24	42.7378	1	20	8	29.707	-0	39	4.47	9001	2498	874
11 10	3	24	54.7377	1	20	13	57.775	-1	47	21.46	9001	2498	875
11 10	3	56	44.1125	1	7	30	39.515	-52	57	36.21	9011	1257	9962
11 10	3	57	.1120	1	7	43	45.641	-52	14	49.10	9011	1257	9963
11 10	5	58	10.1257	1	0	16	59.123	-76	33	39.43	9011	1261	876
11 10	5	58	14.1258	1	0	19	42.615	-77	13	33.37	9011	1261	877
11 10	8	4	50.7388	1	12	13	21.112	-85	44	24.33	9011	1266	878
11 10	8	4	58.7387	1	12	18	13.982	-84	25	43.00	9011	1266	879
11 10	9	13	31.6830	1	20	33	42.636	28	46	18.31	9005	9148	9585
11 10	9	14	19.6836	1	21	13	33.685	23	3	26.70	9005	9148	9586
11 10	15	14	.5590	1	20	2	43.582	-2	13	21.05	9006	9387	9938
11 10	15	14	40.5608	1	20	19	1.116	-6	3	3.73	9006	9387	9939
11 10	15	42	8.8969	1	23	20	22.914	-37	49	4.67	9003	6958	9781
11 10	15	42	20.8970	1	23	22	33.713	-39	31	35.59	9003	6958	9782
11 10	21	36	6.9152	1	4	26	40.699	-71	32	20.52	9002	5606	387
11 10	21	36	14.9158	1	4	43	29.263	-71	41	41.64	9002	5606	388
11 11	3	31	47.2842	1	6	51	54.594	-50	53	10.09	9011	1279	880
11 11	3	32	3.2835	1	7	5	34.114	-50	24	40.99	9011	1279	881
11 11	5	33	30.2692	1	0	19	22.339	-76	22	9.58	9011	1282	882
11 11	5	33	34.2691	1	0	23	.072	-77	1	53.57	9011	1282	883
11 11	6	59	53.9903	1	20	1	11.934	4	22	23.07	9012	1842	2440
11 11	6	59	59.9904	1	20	3	34.896	3	45	58.29	9012	1842	1517
11 11	7	40	17.6694	1	12	23	20.333	-84	31	43.25	9011	1288	884
11 11	7	40	21.6693	1	12	22	53.757	-83	52	33.13	9011	1288	885
11 11	12	48	18.9586	1	23	15	56.242	24	53	52.01	9006	9406	9940
11 11	12	48	30.9591	1	23	22	19.521	22	58	12.29	9006	9406	9941
11 11	13	19	53.7615	1	6	18	7.629	-39	26	12.28	9003	6973	9783
11 11	13	20	13.7610	1	6	31	23.212	-39	33	34.12	9003	6973	9784
11 11	14	51	3.6033	1	20	34	39.430	-10	18	31.46	9006	9416	9942
11 11	14	51	7.6039	1	20	36	25.165	-10	43	49.84	9006	9416	1320
11 11	21	11	38.4220	1	4	40	52.445	-68	36	40.05	9002	5615	389
11 11	21	11	54.4238	1	5	9	19.025	-68	38	1.03	9002	5615	390
11 11	23	10	54.3057	1	22	26	.592	-42	51	50.92	9002	5616	1319
11 11	23	11	2.3048	1	22	26	12.146	-43	45	26.10	9002	5616	392
11 12	0	47	40.5153	1	23	45	30.213	52	32	6.64	9007	1021	2433

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.	CHS. NO.
	H	M	S		H	M	S	D	M	S			
1963 11 12	0	48	4.5149	1	23	57	55.498	50	50	56.35	9007	1021	07 2054
11 12	2	36	14.8908	1	20	10	10.746	- 0	50	51.02	9001	2542	04 3381
11 12	2	36	26.8907	1	20	16	21.686	- 2	6	48.04	9001	2542	07 3382
11 12	4	37	6.1135	1	1	4	30.187	8	43	9.40	9012	1857	03 1518
11 12	4	37	22.1135	1	1	8	41.086	6	44	38.42	9012	1857	07 1519
11 12	7	15	30.7389	1	12	28	38.683	-85	31	15.80	9011	1299	02 886
11 12	7	16	10.7381	1	12	14	50.562	-79	5	34.09	9011	1299	07 887
11 12	12	54	44.3372	1	5	37	3.544	-35	41	20.39	9003	6990	03 9785
11 12	12	55	4.3370	1	5	50	35.420	-36	11	7.91	9003	6990	08 9786
11 12	14	26	2.9034	1	20	15	6.279	- 5	49	25.83	9006	9433	03 9943
11 12	14	26	6.9032	1	20	16	58.304	- 6	15	13.65	9006	9433	04 9944
11 12	16	24	25.0628	1	20	7	31.879	- 8	16	14.20	9008	4979	07 9957
11 12	16	57	37.2481	1	23	2	56.308	-47	14	32.75	9003	7001	06 9787
11 12	16	57	53.2481	1	23	3	32.950	-48	58	49.47	9003	7001	08 9788
11 13	0	25	53.2125	1	1	7	38.504	38	44	53.44	9007	1035	04 2434
11 13	0	26	25.2097	1	1	21	26.879	35	19	4.75	9007	1035	08 2435
11 13	2	11	35.6412	1	20	0	12.321	1	47	57.49	9001	2561	03 3383
11 13	2	11	47.6413	1	20	6	45.322	0	29	51.23	9001	2561	06 3384
11 13	2	42	5.4893	1	5	48	33.332	-45	1	18.37	9011	1314	07 5606
11 13	2	42	17.4892	1	5	58	36.508	-45	1	32.86	9011	1314	10 889
11 13	4	43	21.5227	1	23	46	23.743	-67	23	38.00	9011	1317	04 890
11 13	4	43	25.5226	1	23	48	47.863	-68	4	42.05	9011	1317	05 891
11 13	12	28	13.6257	1	3	59	9.596	-25	44	11.36	9003	7012	10 9789
11 13	16	32	33.3166	1	22	46	43.654	-44	22	56.85	9003	7017	03 9790
11 13	16	33	21.3183	1	22	48	45.494	-49	37	16.72	9003	7017	09 9791
11 13	16	39	6.6696	1	12	21	.427	-81	19	42.96	9003	7018	04 9792
11 13	16	39	14.6702	1	12	14	42.394	-80	9	38.73	9003	7018	06 9793
11 13	16	42	51.4776	1	11	52	45.882	-51	35	42.92	9003	7019	03 9794
11 13	16	42	59.4774	1	11	53	3.211	-50	42	25.05	9003	7019	04 9795
11 13	23	49	41.2388	1	20	38	19.616	16	43	4.00	9010	1568	04 1244
11 13	23	49	45.2391	1	20	41	6.731	16	10	13.95	9010	1568	05 1245
11 14	0	3	35.2748	1	1	58	27.791	24	8	13.04	9007	1055	04 2057
11 14	0	3	39.2750	1	1	59	55.247	23	40	21.96	9007	1055	05 2058
11 14	2	8	.6640	1	23	25	22.277	-27	26	17.05	9007	1064	04 2059
11 14	2	9	20.0393	1	0	19	18.843	-41	17	22.72	9007	1064	16 2060
11 14	5	48	10.7449	1	20	36	45.547	- 2	28	19.05	9012	1897	04 2548
11 14	5	48	16.7449	1	20	39	52.740	- 3	16	56.15	9012	1897	07 2549
11 14	6	25	43.0766	1	16	23	56.969	-88	57	3.42	9011	1335	07 892
11 14	6	26	11.0763	1	12	16	58.827	-85	9	38.98	9011	1335	14 893
11 14	13	37	12.4867	1	20	11	24.697	- 3	58	.88	9006	9467	06 9945
11 14	13	37	16.4868	1	20	13	30.803	- 4	26	.85	9006	9467	07 9946
11 14	15	34	47.9782	1	19	37	53.274	- 1	47	53.98	9008	5019	05 418
11 14	15	34	55.9782	1	19	41	43.502	- 2	38	55.81	9008	5019	07 419
11 14	16	7	57.7864	1	22	32	11.484	-44	29	2.53	9003	7033	08 3587
11 14	16	8	13.7867	1	22	32	57.525	-46	13	44.24	9003	7033	10 3396

DATE			TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	RHS.NO.		
Y	M	D	H	M	S	MS	H	M	S	D	M	S					
1963	11	14	16	18	7.7292	1	11	35	30.011	-52	15	23.22	4	9003	7035	03	3397
	11	14	15	7284		1	11	35	48.206	-51	22	42.76	4	9003	7035	04	3588
	11	14	23	26	36.9605	1	21	39	36.123	6	43	54.18	4	9010	1591	07	1246
	11	14	23	26	40.9607	1	21	42	3.593	6	8	17.27	4	9010	1591	08	2438
	11	15	1	22	42.4260	1	19	57	28.188	4	47	12.89	4	9001	2594	03	3385
	11	15	1	22	54.4263	1	20	4	43.988	3	22	34.84	4	9001	2594	06	3386
	11	15	1	28	59.2656	1	19	41	39.978	-17	28	57.37	4	9010	1602	06	1248
	11	15	3	53	18.6599	1	23	18	59.177	-58	41	17.13	4	9011	1347	03	1360
	11	15	3	54	2.6592	1	23	47	7.126	-66	16	25.82	4	9011	1347	14	1361
	11	15	5	23	21.3013	1	20	26	32.445	2	16	32.99	4	9012	1918	05	2550
11	15	5	23	25.3013	1	20	28	45.128	1	43	26.62	4	9012	1918	07	2551	
11	15	6	1	1.8545	1	16	19	37.189	-88	53	13.22	4	9011	1348	07	1362	
11	15	6	1	29.8543	1	12	5	7.010	-85	12	7.56	4	9011	1348	14	1363	
11	15	15	10	37.8254	1	19	42	39.071	-2	24	37.24	4	9008	5035	06	420	
11	15	15	10	41.8255	1	19	44	42.046	-2	51	34.32	4	9008	5035	07	421	
11	15	15	52	52.3589	1	11	16	25.368	-56	25	31.88	4	9003	7054	02	4279	
11	15	15	52	56.2588	1	11	16	33.532	-55	58	29.49	4	9003	7054	03	4280	
11	16	1	3	1.2284	1	22	28	25.037	-23	55	55.64	4	9001	2613	03	3387	
11	16	1	3	17.2282	1	22	35	.075	-25	8	7.62	4	9001	2613	05	3388	
11	16	1	4	7.7727	1	19	25	30.934	-15	1	26.45	4	9010	1613	04	1250	
11	16	1	4	23.7729	1	19	30	39.725	-16	28	31.53	4	9010	1613	06	1251	
11	16	12	47	45.9671	1	19	52	45.940	2	49	34.43	4	9006	9484	04	9947	
11	16	12	48	5.9679	1	20	4	29.111	0	20	4.01	4	9006	9484	09	9948	
11	16	14	45	37.7966	1	19	22	46.555	2	42	9.05	4	9008	5051	05	422	
11	16	15	18	2.6612	1	22	1	52.248	-39	51	35.27	4	9003	7078	07	4858	
11	16	15	18	10.6612	1	22	2	22.785	-40	42	23.99	4	9003	7078	08	4282	
11	16	18	40	34.3271	1	19	8	59.616	-6	4	14.37	4	9004	1271	04	4291	
11	16	18	40	46.3274	1	19	14	40.326	-7	11	7.55	4	9004	1271	07	4292	
11	16	23	21	37.2431	1	12	8	36.469	-66	16	23.10	4	9002	5646	04	393	
11	17	0	54	26.2248	1	23	51	31.355	-19	42	15.89	4	9007	1128	06	411	
11	17	0	54	38.2242	1	23	59	46.906	-21	46	12.02	4	9007	1128	09	412	
11	17	3	0	4.6380	1	21	6	48.237	-58	38	34.68	4	9007	1132	07	717	
11	17	3	0	12.6382	1	21	7	40.462	-59	41	52.15	4	9007	1132	08	718	
11	17	4	37	14.6040	1	22	10	45.339	-17	45	54.46	4	9012	1932	05	2552	
11	17	4	37	16.5986	1	22	11	47.447	-18	0	38.81	4	9012	1932	06	2553	
11	17	5	11	1.9169	1	21	59	22.485	-84	14	13.43	4	9011	1374	02	1364	
11	17	5	11	5.9168	1	21	55	9.586	-84	51	14.50	4	9011	1374	03	1365	
11	17	22	56	59.5149	1	11	50	53.448	-65	57	44.37	4	9002	5662	05	394	
11	18	0	56	46.8898	1	23	34	24.217	-71	48	2.54	4	9002	5666	09	3393	
11	18	0	56	54.8898	1	23	35	56.190	-72	41	53.71	4	9002	5666	10	3394	
11	18	23	56	54.1467	1	19	33	28.567	-20	1	44.33	4	9009	9540	04	172	
11	18	23	57	10.1463	1	19	38	32.455	-21	55	10.15	4	9009	9540	08	173	
11	19	5	49	33.9540	1	19	16	7.043	-25	16	47.51	4	9012	1972	03	2554	
11	19	5	49	37.9539	1	19	17	13.421	-25	39	14.80	4	9012	1972	04	2555	
11	19	16	10	52.8609	1	22	22	53.545	-56	32	25.06	4	9003	7157	05	6429	

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.	RHS. NO.
1963 11 19	23 26 1.0820	1	18 51 48.335	-11 16 9.45	4	9010	1650	08
11 19	23 26 5.0815	1	18 53 27.392	-11 41 20.35	4	9010	1650	09
11 20	1 50 4.8983	1	23 19 13.438	-52 55 3.17	4	9011	1392	05
11 20	1 50 32.8979	1	23 46 5.555	-57 32 10.81	4	9011	1392	12
11 20	3 56 58.1148	1	21 51 21.300	-84 18 28.38	4	9011	1395	09
11 20	3 57 2.1147	1	21 51 59.223	-84 56 28.27	4	9011	1395	10
11 20	5 25 5.3102	1	19 8 36.838	-25 14 46.56	4	9012	1990	03
11 20	5 25 13.3103	1	19 10 58.781	-26 1 22.50	4	9012	1990	05
11 20	6 3 58.9955	1	9 39 52.168	-74 21 42.15	4	9011	1397	11
11 20	6 4 10.9956	1	9 49 6.845	-72 19 27.94	4	9011	1397	14
11 20	8 8 8.5353	1	6 2 47.540	-43 55 21.39	4	9011	1412	04
11 20	8 8 32.5345	1	6 30 32.393	-41 27 18.27	4	9011	1412	10
11 20	8 10 38.5054	1	11 14 58.066	-60 6 15.59	4	9007	1206	03
11 20	8 10 54.5042	1	11 19 41.062	-57 39 43.08	4	9007	1206	04
11 21	1 25 22.0644	1	23 17 4.463	-50 15 44.36	4	9011	1418	08
11 21	3 30 50.7254	1	21 33 54.324	-70 44 26.75	4	9011	1422	03
11 21	3 30 54.7253	1	21 34 26.029	-71 21 33.41	4	9011	1422	04
11 21	5 38 44.3108	1	9 2 51.048	-80 22 13.90	4	9011	1425	05
11 21	5 38 48.3108	1	9 8 57.685	-79 43 47.30	4	9011	1425	06
11 21	7 44 4.8860	1	6 37 46.015	-44 27 54.37	4	9011	1430	09
11 21	7 44 28.8852	1	7 5 14.882	-41 13 18.59	4	9011	1430	15
11 22	1 0 14.4748	1	22 54 20.075	-43 7 51.01	4	9011	1435	09
11 22	3 6 26.4745	1	23 3 48.718	-45 10 19.09	4	9011	1435	12
11 22	3 6 37.4536	1	21 32 14.692	-75 1 11.31	4	9011	1438	04
11 22	3 6 57.4532	1	21 38 55.029	-78 11 49.18	4	9011	1438	09
11 22	5 14 10.7532	1	9 16 14.429	-79 30 48.54	4	9011	1441	05
11 22	5 14 34.7525	1	9 34 58.651	-75 33 2.92	4	9011	1441	08
11 22	7 20 6.2166	1	7 20 18.329	-42 46 2.87	4	9011	1448	04
11 22	7 20 18.2165	1	7 32 45.687	-40 48 21.15	4	9011	1448	07
11 22	14 56 12.5447	1	21 25 19.281	-52 26 30.55	4	9003	7211	06
11 22	14 56 20.5446	1	21 25 44.443	-53 16 37.01	4	9003	7211	07
11 22	15 6 37.7523	1	10 21 55.507	-42 24 13.54	4	9003	7212	05
11 22	15 6 45.7520	1	10 22 25.602	-41 30 56.20	4	9003	7212	06
11 22	15 31 47.4173	1	12 32 28.085	-22 14 29.08	4	9012	2047	04
11 22	15 31 59.4172	1	12 36 57.918	-20 50 57.15	4	9012	2047	07
11 23	0 35 26.7304	1	22 47 40.198	-39 6 38.05	4	9011	1453	04
11 23	0 35 54.7298	1	23 10 27.110	-43 46 29.07	4	9011	1453	11
11 23	6 54 51.8457	1	6 36 43.138	-51 41 44.70	4	9011	1460	05
11 23	6 55 15.8450	1	7 6 4.941	-48 14 16.81	4	9011	1460	11
11 23	15 8 28.7924	1	12 49 57.257	-15 3 14.11	4	9012	2048	05
11 23	15 8 36.7928	1	12 52 37.448	-14 11 20.53	4	9012	2048	07
11 23	18 46 26.4272	1	5 0 27.478	-16 19 29.36	4	9003	7227	05
11 23	18 46 40.4271	1	5 10 1.214	-14 49 40.48	4	9003	7227	12
11 24	0 11 40.2553	1	23 33 46.770	-44 36 27.43	4	9011	1469	04
11 24	0 11 56.2550	1	23 50 21.157	-46 53 13.19	4	9011	1469	08

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.	NRS.NO.
1963 11 24	4 24 10.4544	1	8 25 26.707	-85 58 16.25	9011	1475	1164
11 24	4 24 42.4539	1	9 11 29.997	-80 35 16.19	9011	1475	1165
11 24	6 30 36.5351	1	7 4 56.527	-51 35 52.29	9011	1483	1166
11 24	6 30 52.5347	1	7 22 47.241	-48 59 3.14	9011	1483	2406
11 24	8 45 41.3548	1	11 48 46.483	-28 43 30.96	9009	9619	175
11 24	12 47 26.6840	1	10 26 10.731	-34 2 55.52	9001	2723	3389
11 24	12 47 50.6854	1	10 37 24.449	-32 8 42.26	9001	2723	3390
11 25	6 5 44.3083	1	6 48 49.585	-56 33 48.85	9011	1497	1168
11 25	6 6 12.3074	1	7 21 28.385	-52 2 50.55	9011	1497	1169
11 25	20 21 14.0355	1	12 38 15.537	-4 24 25.50	9005	9259	9587
11 25	20 21 18.0356	1	12 40 25.014	-3 59 20.74	9005	9259	716
11 26	6 10 1.8410	1	11 26 42.373	-13 45 11.11	9004	1398	4293
11 26	6 10 5.8410	1	11 28 55.051	-13 20 2.48	9004	1398	4294
11 26	7 45 32.1742	1	5 12 2.704	-1 51 31.77	9011	1509	1170
11 26	7 45 56.1741	1	5 26 48.937	1 5 24.09	9011	1509	1171
11 26	19 56 12.2839	1	12 14 11.056	-9 12 4.75	9005	9279	9589
11 26	19 56 56.2840	1	12 36 38.632	-4 42 57.30	9005	9279	9590
11 26	23 50 26.2753	1	11 43 4.264	-7 13 21.29	9006	9636	2043
11 26	23 50 30.2753	1	11 45 20.288	-6 43 .83	9006	9636	2044
11 27	5 16 42.4958	1	7 10 25.344	-58 35 35.38	9011	1524	1172
11 27	5 16 58.4955	1	7 26 34.593	-55 49 12.16	9011	1524	1173
11 27	7 20 55.9796	1	5 3 2.193	-4 59 58.68	9011	1533	1325
11 27	7 21 31.9789	1	5 26 32.614	-0 24 38.35	9011	1533	1326
11 27	9 35 40.1247	1	8 51 42.028	5 48 54.45	9009	9649	176
11 27	9 35 48.1248	1	8 56 58.897	7 22 34.94	9009	9649	177
11 27	15 32 45.6949	1	10 22 57.341	6 13 40.94	9012	2078	2562
11 27	15 32 47.6949	1	10 24 21.822	6 34 32.55	9012	2078	2563
11 27	19 31 2.2862	1	11 47 3.199	-14 29 58.53	9005	9298	9591
11 27	19 31 10.2858	1	11 50 54.780	-13 42 10.41	9005	9298	9592
11 27	23 24 58.6435	1	11 8 5.811	-15 58 6.47	9006	9667	2045
11 27	23 25 6.6432	1	11 12 20.780	-15 0 39.25	9006	9667	2046
11 28	4 52 6.8439	1	7 15 5.935	-59 44 13.18	9011	1551	1327
11 28	4 52 18.8439	1	7 26 19.551	-57 37 51.36	9011	1551	1328
11 28	9 3 5.8351	1	5 27 42.345	16 22 42.25	9007	1316	719
11 28	9 11 33.6654	1	9 17 2.147	7 0 6.46	9009	9659	178
11 28	9 11 47.6654	1	9 26 45.264	9 42 7.84	9009	9659	179
11 28	19 6 43.1646	1	11 44 29.891	-14 30 37.83	9005	9316	9593
11 28	19 6 51.1648	1	11 48 9.845	-13 44 14.77	9005	9316	40
11 28	23 1 26.1149	1	11 33 17.240	-10 34 19.09	9006	9686	2047
11 28	23 1 38.1152	1	11 39 17.825	-9 10 4.00	9006	9686	2048
11 29	6 33 56.5994	1	6 19 47.422	6 16 23.59	9011	1559	1329
11 29	6 34 3.7398	1	8 21 29.206	-45 57 34.79	9007	1330	9950
11 29	6 34 12.5977	1	6 29 44.048	8 21 11.02	9011	1559	1330
11 29	6 34 19.7391	1	8 31 14.480	-43 3 13.84	9007	1330	720
11 29	8 38 44.8587	1	5 27 28.843	16 17 37.07	9007	1333	9951

DATE	TIME (A-1)	RMS	R.A. (1950.0)	DECL. (1950.0)	STATION	FRAME NO.	NBS. NO.
Y M D	H M S	MS	H M S	D M S			
1963 11 29	8 38	48.8583	1	16 51 24.21	9007	1333	9952
11 29	14 42	50.7623	1	- 8 47 15.08	9012	2099	2564
11 29	14 42	56.7613	1	- 7 49 43.53	9012	2099	2565
11 29	22 36	47.0198	1	-12 59 49.17	9006	9708	2049
11 29	22 37	3.0201	1	-11 11 31.43	9006	9708	2050
11 30	4 33	15.3875	1	-11 27 20.10	9004	1421	4295
11 30	4 33	19.3874	1	-11 4 10.36	9004	1421	4296
11 30	6 9	39.5808	1	-45 19 41.89	9007	1346	9953
11 30	12 27	34.3297	1	16 8 6.32	9001	2820	3391
11 30	12 27	46.3298	1	17 58 49.95	9001	2820	3586
11 30	14 18	15.8150	1	-11 55 24.80	9012	2112	2546
11 30	14 18	19.8150	1	-11 18 34.50	9012	2112	2547
11 30	20 20	39.6310	1	14 35 31.27	9005	9346	9595
11 30	20 21	6.0530	1	18 33 26.59	9005	9346	9596
11 30	22 12	15.2871	1	-14 23 36.99	9006	9727	2051
11 30	22 12	23.2873	1	-13 31 30.38	9006	9727	2052
12 1	0 16	11.4080	1	35 28 16.55	9006	9735	2376
12 1	0 16	19.4086	1	36 52 31.33	9006	9735	2377
12 1	13 54	24.9954	1	- 8 8 54.90	9012	2129	3013
12 1	13 54	32.9953	1	- 6 57 17.21	9012	2129	3014
12 2	11 38	43.6386	1	11 37 56.57	9001	2841	2359
12 2	11 38	51.6388	1	12 45 30.50	9001	2841	2360
12 2	15 33	39.2510	1	40 29 11.69	9012	2153	3606
12 2	15 33	47.2510	1	41 57 50.56	9012	2153	3016
12 3	5 23	17.0935	1	21 20 35.99	9004	1444	2944
12 3	5 23	33.0937	1	23 27 45.53	9004	1444	2945
12 3	11 14	44.4284	10	12 50 44.43	9001	2854	2361
12 3	11 14	48.4288	10	13 21 24.09	9001	2854	2362
12 3	15 10	32.3967	1	55 6 20.57	9012	2169	3017
12 3	15 10	42.3969	1	56 45 5.44	9012	2169	3018
12 4	10 51	21.0568	10	17 28 28.70	9001	2875	2363
12 4	10 51	29.0556	10	18 15 21.66	9001	2875	3595
12 4	10 54	30.6435	1	60 27 45.58	9010	1793	2625
12 4	12 51	49.8641	10	33 58 35.05	9001	2880	3596
12 4	14 47	25.6779	1	64 28 3.27	9012	2188	3019
12 4	14 47	31.6779	1	64 57 1.50	9012	2188	3020
12 4	22 10	42.3477	1	-52 22 34.07	9002	5819	2981
12 4	22 39	49.1288	1	35 6 12.08	9006	9796	01 2609
12 6	0 19	19.5986	1	75 57 38.20	9006	9810	2610
12 6	2 13	13.3005	1	31 10 27.83	9008	5269	2979
12 6	10 4	25.2574	1	21 18 13.56	9001	2891	2366
12 6	10 4	41.2576	1	22 8 18.98	9001	2891	2367
12 6	10 7	2.5597	1	73 27 16.30	9010	1813	2971
12 6	10 7	14.5601	1	74 16 1.31	9010	1813	2972
12 6	12 5	56.8215	1	64 28 55.48	9001	2897	2368

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.	OR.S.NO.
1963 12 6	12 6 4.8216	1	10 3 56.572	65 17 49.07	9001	2897	2369
12 6 23 54	29.2805	1	7 54 44.353	73 27 23.71	9006	9824	2611
12 7 9 40	20.2171	1	12 25 43.024	20 15 34.02	9001	2907	2370
12 7 9 40	36.2168	1	12 33 19.019	21 1 37.27	9001	2907	2371
12 7 23 31	28.6019	1	12 44 46.744	77 53 35.34	9006	9838	2612
12 7 23 31	36.6020	1	13 7 29.392	77 26 54.13	9006	9838	2613
12 8 9 19	44.4687	1	13 29 23.305	66 43 19.99	9010	1823	2973
12 8 9 20	4.4689	1	13 48 3.429	65 42 .21	9010	1823	2974
12 8 15 13	41.2360	1	4 36 40.936	77 48 4.61	9012	2206	3021
12 8 15 14	1.2364	1	4 32 16.139	80 27 39.99	9012	2206	3022
12 8 19 11	57.0531	1	12 55 3.464	60 18 47.10	9005	9396	2621
12 8 20 34	53.2349	1	6 18 28.484	-38 19 15.64	9002	5865	2982
12 8 23 6	54.7566	1	12 40 13.490	75 24 37.22	9006	9850	2614
12 8 23 7	2.7567	1	12 59 .092	74 56 58.27	9006	9850	2615
12 9 2 22	47.9205	1	0 23 44.241	-63 1 15.60	9011	1679	2622
12 9 2 23	3.9203	1	0 48 57.273	-63 4 28.57	9011	1679	2623
12 9 12 54	41.8966	1	5 38 49.358	59 1 34.41	9001	2942	2372
12 9 12 54	53.8968	1	5 40 55.014	60 55 .69	9001	2942	2373
12 9 14 49	56.9351	1	4 53 3.675	85 39 55.32	9012	2218	3023
12 9 14 50	8.9352	1	4 56 51.868	87 12 32.59	9012	2218	3024
12 10 13 52	9.9427	1	1 51 1.062	-24 4 4.53	9003	7505	2619
12 11 13 29	18.6284	1	3 9 1.321	-14 19 34.09	9003	7527	2620
12 12 1 10	8.4338	1	2 30 25.404	-67 58 49.91	9011	1721	2624
12 12 13 5	35.2604	1	3 46 1.953	-9 55 40.79	9003	7540	2640
12 12 13 5	39.1603	1	3 48 41.664	-9 19 33.99	9003	7540	2641
12 13 0 46	34.4282	1	4 4 35.859	-60 40 8.53	9011	1747	2628
12 13 12 41	58.2265	1	4 22 14.709	-4 24 9.48	9003	7563	2642
12 13 12 42	14.2262	1	4 31 6.873	-2 7 48.68	9003	7563	2643
12 14 0 24	54.3467	1	5 33 39.108	-32 22 40.05	9011	1764	2629
12 14 0 25	2.3468	1	5 35 50.155	-31 12 47.64	9011	1764	2630
12 14 10 56	58.6877	1	15 28 9.265	65 6 28.99	9001	2962	2374
12 14 10 57	14.6874	1	15 34 40.050	63 11 48.47	9001	2962	2375
12 14 12 18	7.8464	1	4 44 6.170	-1 12 7.77	9003	7592	2644
12 14 12 18	27.3509	1	4 53 1.716	1 17 4.44	9003	7592	2645
12 14 12 57	40.8490	1	4 59 15.198	74 47 18.01	9001	2965	2344
12 14 12 57	52.8490	1	4 59 40.223	76 36 43.92	9001	2965	2345
12 14 20 10	14.9811	1	2 30 53.562	-17 34 46.77	9002	5916	2983
12 14 20 10	34.9811	1	2 45 54.230	-14 25 53.35	9002	5916	2984
12 14 22 45	43.7623	1	16 30 22.444	70 0 49.80	9006	9907	3597
12 15 10 33	20.5574	1	15 25 59.749	57 36 15.68	9001	2976	2346
12 15 10 33	28.5573	1	15 28 19.740	56 46 52.25	9001	2976	2347
12 15 11 53	45.9025	1	4 47 27.274	-2 18 .88	9003	7619	2646
12 15 11 53	49.8045	1	4 49 6.291	-1 48 12.35	9003	7619	2647
12 15 19 46	21.9875	1	3 3 39.097	-14 39 24.67	9002	5934	3601
12 15 19 46	41.9867	1	3 17 47.852	-11 18 1.52	9002	5934	2986

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.	CHS. NO.
1963 12 16	12 10 57.4020	1	16 57 8.160	80 6 11.62	4	9001	2998 04	2348
12 16	12 11 13.4020	1	16 55 17.541	77 35 37.18	4	9001	2998 08	2349
12 16	21 22 6.6980	1	0 13 2.576	2 17 27.58	4	9002	5960 06	2987
12 16	23 59 30.5476	1	19 32 41.898	84 7 44.80	4	9006	9938 04	2617
12 17	1 11 47.2818	1	0 54 32.042	-30 58 24.54	4	9011	1819 11	3029
12 17	1 11 51.2816	1	0 58 7.900	-30 31 4.56	4	9011	1819 12	3030
12 17	3 14 53.3959	1	0 18 12.896	6 59 6.62	4	9011	1830 05	3031
12 17	11 46 54.6668	1	16 39 16.829	74 12 57.85	4	9011	3010 01	2350
12 17	11 47 14.6668	1	16 39 6.091	71 12 42.68	4	9001	3010 06	2351
12 17	19 40 5.1762	1	15 34 2.577	71 13 12.63	4	9005	9498 02	4192
12 17	19 40 9.9524	1	15 37 2.028	70 25 26.52	4	9005	9498 03	3012
12 18	0 46 55.9843	1	0 36 6.759	-36 30 12.90	4	9011	1839 04	4193
12 18	0 47 15.1825	1	0 54 32.982	-34 23 22.34	4	9011	1839 08	3033
12 18	11 23 24.4672	1	16 24 8.936	64 4 17.02	4	9001	3020 05	2352
12 18	19 16 1.0506	1	15 38 43.902	65 29 51.17	4	9005	9507 09	3009
12 18	19 16 5.8595	1	15 40 30.632	64 43 56.40	4	9005	9507 10	3010
12 18	23 11 45.7699	1	17 11 58.957	71 19 54.06	4	9006	9965 04	2998
12 18	23 11 57.7701	1	17 8 26.677	69 44 45.55	4	9006	9965 07	2999
12 19	0 26 49.3715	1	3 48 40.547	-1 19 42.46	4	9011	1857 02	3034
12 19	0 26 57.3712	1	3 52 15.562	-0 19 50.46	4	9011	1857 04	3035
12 19	2 25 58.9263	1	23 57 50.304	5 8 57.00	4	9011	1866 04	3036
12 19	10 59 15.5019	1	16 8 44.758	59 59 18.08	4	9001	3035 04	2353
12 19	13 0 47.4081	1	10 34 6.920	82 50 10.83	4	9001	3043 05	2354
12 19	18 52 1.2761	1	15 36 32.175	59 29 22.03	4	9005	9521 06	3007
12 19	18 52 10.8738	1	15 38 53.895	58 5 2.71	4	9005	9521 07	3008
12 19	22 47 34.2967	1	16 49 13.135	67 31 17.69	4	9006	9981 02	2959
12 19	22 47 50.2967	1	16 46 25.596	65 29 5.41	4	9006	9981 04	2960
12 20	10 34 47.9717	1	15 52 .165	58 28 12.77	4	9001	3049 02	2355
12 20	11 55 52.2633	1	2 56 20.489	31 14 47.17	4	9003	7746 06	2648
12 20	11 56 4.2631	1	3 1 51.638	32 10 38.38	4	9003	7746 09	2649
12 20	12 37 20.8467	1	14 54 36.172	75 46 57.31	4	9001	3053 04	2356
12 21	0 26 50.0739	1	15 33 31.208	74 29 53.71	4	9006	9999 05	2961
12 21	0 27 6.0743	1	15 44 16.316	71 51 23.51	4	9006	9999 09	2962
12 21	1 37 36.5397	1	23 54 45.886	6 7 50.56	4	9011	1909 07	3037
12 21	1 37 44.5396	1	23 58 22.130	6 56 24.11	4	9011	1909 09	3038
12 21	1 37 47.6085	1	23 53 58.683	-37 28 38.55	4	9007	1586 05	2975
12 21	6 21 7.2371	1	12 59 3.069	60 9 7.47	4	9004	1490 04	2946
12 21	6 21 23.2371	1	13 21 3.585	57 46 45.01	4	9004	1490 08	2947
12 21	12 13 15.7364	1	15 25 38.551	70 18 46.02	4	9001	3067 01	2357
12 21	12 13 27.7363	1	15 31 46.647	68 15 18.17	4	9001	3067 04	2358
12 21	18 3 43.1250	1	15 17 32.597	51 29 .04	4	9005	9546 06	3604
12 21	18 3 52.7756	1	15 19 12.197	50 16 47.59	4	9005	9546 08	3605
12 21	20 6 16.1721	1	14 0 51.564	62 49 34.99	4	9005	9551 07	3003
12 21	20 6 30.5803	1	14 15 29.631	60 19 30.68	4	9005	9551 10	3004
12 22	0 2 39.0507	1	15 52 14.819	69 58 47.53	4	9006	13 05	2618

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.	ORS. NO.
1963 12 22	1 13 3.8621	1	23 45 41.944	4 25 27.01	4	9011	1938 08	3039
12 22	1 13 15.8620	1	23 51 25.998	5 40 46.25	4	9011	1938 11	3040
12 22	3 55 3.7908	1	15 19 25.935	44 55 6.14	4	9004	1498 03	2948
12 22	3 55 11.7907	1	15 20 45.486	43 58 35.34	4	9004	1498 04	3598
12 22	11 49 30.6601	1	15 40 48.458	61 25 1.33	4	9001	3077 03	2605
12 22	11 49 38.6604	1	15 42 41.244	60 6 24.13	4	9001	3077 05	2606
12 22	15 48 16.2137	1	17 12 34.505	68 41 45.45	4	9012	2332 03	3025
12 22	15 48 32.2138	1	17 10 18.319	66 38 9.01	4	9012	2332 07	3026
12 22	19 42 11.4251	1	14 28 18.661	57 54 28.25	4	9005	9563 01	2395
12 22	19 42 21.0344	1	14 34 47.210	56 11 47.09	4	9005	9563 03	2396
12 22	23 38 22.2535	1	15 56 18.392	66 23 5.07	4	9006	27 03	2631
12 23	0 49 13.3275	1	23 58 48.591	7 9 55.36	4	9011	1969 04	3041
12 23	0 49 17.3275	1	0 0 50.605	7 36 27.63	4	9011	1969 05	3042
12 23	11 25 32.5918	1	15 40 5.066	55 11 54.99	4	9001	3092 04	2607
12 23	11 25 40.5919	1	15 41 16.807	53 59 .61	4	9001	3092 06	2608
12 23	15 23 45.9809	1	17 5 .065	67 10 29.41	4	9012	2337 04	3027
12 23	15 24 1.9812	1	17 2 22.061	65 10 26.69	4	9012	2337 08	3028
12 23	19 18 29.6346	1	14 52 26.837	48 53 55.70	4	9005	9575 04	3001
12 23	19 18 34.4433	1	14 54 18.074	48 5 49.37	4	9005	9575 05	3002
12 24	0 28 14.2824	1	1 41 44.297	27 45 6.91	4	9011	1989 03	3043
12 24	0 28 22.2823	1	1 45 30.231	28 26 35.22	4	9011	1989 04	3044
12 24	1 12 40.8613	1	15 41 12.959	62 30 36.04	4	9008	5605 03	2978
12 24	11 1 43.7008	1	15 35 41.995	48 18 28.87	4	9001	3107 02	2378
12 24	11 1 51.7004	1	15 36 33.723	47 12 57.50	4	9001	3107 03	2379
12 24	13 2 40.1158	1	10 37 11.909	58 51 54.32	4	9001	3114 03	2380
12 24	13 2 52.1160	1	10 56 6.154	58 5 23.07	4	9001	3114 06	2381
12 24	22 50 12.8506	1	15 49 32.755	56 1 21.87	4	9006	52 04	2632
12 24	22 50 28.8507	1	15 50 30.648	53 42 56.68	4	9006	52 08	2633
12 25	22 25 55.9696	1	15 40 27.784	53 7 3.50	4	9006	67 04	2634
12 25	22 26 3.9695	1	15 40 47.300	52 1 18.20	4	9006	67 05	2635
12 26	4 20 51.1334	1	14 37 41.713	37 51 10.64	4	9004	1524 04	2950
12 26	4 21 3.1333	1	14 40 59.171	36 6 56.65	4	9004	1524 07	2951
12 26	6 23 15.1580	1	11 52 42.863	20 7 22.90	4	9004	1531 04	2952
12 26	6 23 23.1579	1	11 59 23.682	18 59 51.52	4	9004	1531 06	2953
12 26	10 18 2.3278	1	15 4 44.570	52 19 54.79	4	9010	1978 05	2626
12 26	18 7 12.6746	1	14 58 33.736	29 37 27.39	4	9005	9583 15	4191
12 26	20 7 57.9936	1	12 3 31.687	33 32 40.24	4	9005	9587 03	3000
12 26	20 8 45.9679	1	12 44 53.145	25 51 37.21	4	9005	9587 13	4788
12 26	22 1 35.4583	1	15 29 44.528	50 54 22.78	4	9006	79 04	2636
12 26	22 1 51.4586	1	15 30 15.047	48 50 11.55	4	9006	79 06	2637
12 27	0 4 57.2283	1	13 23 43.856	47 17 30.70	4	9006	82 10	2638
12 27	0 5 1.2285	1	13 27 2.191	46 33 41.41	4	9006	82 11	3600
12 27	9 49 9.8598	1	15 3 58.735	39 35 3.66	4	9001	3133 02	2382
12 27	11 51 26.3543	1	13 45 26.790	43 57 3.10	4	9001	3135 01	2383
12 27	11 51 42.3543	1	13 54 54.857	41 0 45.20	4	9001	3135 05	2384

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.	CRS. NO.
1963 12 28	5 35 12.5117	1	12 39 47.231	16 18 10.68	4	9004	1546 07	4787
12 28	5 35 16.5117	1	12 42 28.057	15 42 21.81	4	9004	1546 08	2955
12 28	9 29 .6008	1	15 2 4.489	51 8 35.43	4	9010	2003 04	2627
12 28	11 27 45.7730	1	14 11 10.063	35 29 54.66	4	9001	3153 01	2385
12 28	11 28 1.7728	1	14 17 15.553	32 49 11.17	4	9001	3153 05	2386
12 28	15 26 1.5076	1	14 35 54.875	57 12 47.72	4	9012	2361 03	2988
12 28	15 26 3.5075	1	14 36 54.313	56 52 36.43	4	9012	2361 04	2989
12 29	0 32 35.3006	1	1 6 23.128	-33 48 27.17	4	9009	9837 03	2976
12 29	0 32 39.3005	1	1 8 31.507	-33 25 8.22	4	9009	9837 05	2977
12 29	11 3 57.7577	1	14 22 3.184	29 10 2.32	4	9001	3167 03	2387
12 29	11 4 9.7578	1	14 25 20.637	27 23 29.94	4	9001	3167 06	2388
12 29	22 53 16.5227	1	14 27 4.402	29 34 59.73	4	9006	121 07	2963
12 29	22 53 24.5202	1	14 29 21.562	28 19 51.36	4	9006	121 09	2964
12 30	0 8 51.2858	1	1 38 46.512	-31 20 59.84	4	9009	9841 05	2980
12 30	4 47 44.2180	1	13 27 43.241	7 19 48.47	4	9004	1561 08	2956
12 30	6 5 3.1705	1	2 23 15.715	-33 26 46.59	4	9012	2364 04	3602
12 30	6 5 5.1705	1	2 24 19.314	-33 14 49.38	4	9012	2364 05	2991
12 30	10 40 3.1010	1	14 24 51.781	24 39 37.87	4	9001	3184 01	2389
12 30	10 40 27.1043	1	14 29 51.749	21 34 47.82	4	9001	3184 04	2390
12 30	12 42 11.2253	1	11 30 57.058	0 44 54.20	4	9001	3189 02	2391
12 30	12 42 19.2254	1	11 36 17.366	- 0 20 17.90	4	9001	3189 04	2392
12 30	14 37 39.1671	1	14 55 3.386	49 34 38.42	4	9012	2370 03	2992
12 30	14 37 45.1674	1	14 56 26.447	48 36 49.91	4	9012	2370 06	2993
12 30	22 28 38.7273	1	14 21 11.605	31 13 5.99	4	9006	137 03	2965
12 30	22 28 54.7272	1	14 25 10.963	28 47 3.08	4	9006	137 07	2966
12 31	0 30 17.0720	1	10 27 11.621	8 26 20.30	4	9006	145 02	2967
12 31	0 30 41.0711	1	10 43 47.794	5 9 19.03	4	9006	145 08	2968
12 31	4 22 54.0771	1	13 16 31.816	11 27 39.40	4	9004	1577 04	2957
12 31	4 23 6.0772	1	13 21 22.176	9 56 15.91	4	9004	1577 07	2958
12 31	5 41 13.0307	1	2 48 8.840	-30 31 .79	4	9012	2375 03	2994
12 31	5 41 17.0308	1	2 50 15.794	-30 4 .91	4	9012	2375 05	2995
12 31	12 17 56.7566	1	11 42 26.643	0 56 38.77	4	9001	3204 02	2393
12 31	12 18 8.7563	1	11 50 13.596	- 0 42 13.29	4	9001	3204 05	2394
12 31	13 36 27.8185	1	4 38 18.000	-20 48 46.85	4	9006	149 12	2969
12 31	13 37 16.0606	1	4 57 33.645	-16 1 38.45	4	9006	149 14	2970
12 31	14 13 45.8269	1	14 59 .612	43 16 14.45	4	9012	2383 02	2996
12 31	14 13 47.8300	1	14 59 19.595	42 58 19.05	4	9012	2383 03	2997

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.	ORS.NO.
1963 10 7	8 54	4.0778		1	3 34	53.199		-31 29	49.38	4	9011	873	9406
10 8	2 7	55.5322		10	3 0	1.775		18 9	40.60	4	9002	5084	8304
10 8	2 8	3.5323		10	3 2	3.337		16 31	49.37	4	9002	5084	8305
10 8	7 22	2.0679		1	7 41	51.709		2 31	9.76	4	9011	885	7447
10 8	7 22	6.0680		1	7 44	2.452		1 44	30.04	4	9011	885	7448
10 8	17 48	35.9874		10	9 52	41.253		-31 48	38.87	4	9003	6348	7321
10 8	17 48	47.9871		10	9 59	40.139		-32 50	.88	4	9003	6348	7322
10 9	7 37	5.9897		10	7 22	5.895		-19 6	10.53	4	9011	911	7449
10 9	7 37	15.9897		10	7 30	39.608		-21 36	44.05	4	9011	911	7450
10 9	17 57	42.6187		1	5 54	15.448		14 3	59.63	4	9003	6375	7689
10 9	17 57	52.6187		1	6 0	7.069		11 48	13.46	4	9003	6375	7298
10 10	18 12	18.7557		1	4 19	48.098		0 14	58.63	4	9003	6393	7299
10 10	18 12	22.7555		1	4 22	.556		-0 57	39.27	4	9003	6393	7690
10 11	16 43	21.7433		1	8 18	14.064		-10 21	37.71	4	9003	6414	723
10 11	18 27	9.9442		1	2 29	41.565		-20 57	18.40	4	9003	6422	7301
10 11	18 27	11.9442		1	2 30	6.125		-21 38	8.85	4	9003	6422	7302
10 12	16 57	41.0700		1	8 8	39.281		-20 51	29.31	4	9003	6441	7303
10 12	16 57	45.0697		1	8 11	10.116		-21 28	58.40	4	9003	6441	7304
10 13	1 37	42.1188		10	0 25	13.005		-63 22	5.02	4	9002	5154	9405
10 13	1 37	50.1192		10	0 20	45.002		-65 10	20.29	4	9002	5154	7446
10 13	17 11	51.0053		1	7 35	44.385		-36 13	34.12	4	9003	6461	7305
10 13	17 11	57.0052		1	7 41	39.698		-37 17	47.75	4	9003	6461	7306
10 14	1 51	47.7748		10	23 26	.139		-50 50	2.42	4	9002	5179	2468
10 14	17 26	20.5093		1	6 31	17.126		-61 25	36.25	4	9003	6483	7295
10 15	7 18	39.4799		1	1 59	31.776		-83 26	55.42	4	9011	982	7451
10 15	7 18	43.4799		1	2 1	33.129		-84 19	52.30	4	9011	982	7452
10 15	17 40	46.7919		1	2 5	44.981		-74 53	23.75	4	9003	6505	7296
10 15	17 40	52.7920		1	2 8	48.396		-76 25	31.07	4	9003	6505	7297
10 19	16 53	12.6665		1	14 53	10.466		-86 37	15.54	4	9003	6568	7323
10 19	16 53	20.6660		1	14 22	52.163		-85 23	45.71	4	9003	6568	7324
10 28	15 30	11.6034		1	17 20	1.899		-72 40	57.77	4	9003	6701	7325
10 28	15 30	15.6033		1	17 12	23.148		-72 42	9.11	4	9003	6701	7692
11 3	9 24	52.1481		1	6 27	13.373		70 13	.41	4	9005	9107	164
11 5	1 14	50.1578		1	3 56	42.676		52 11	14.31	4	9001	2415	6554
11 5	1 15	2.1579		1	3 48	10.318		50 20	5.62	4	9001	2415	7098
11 5	13 49	35.7340		1	19 27	57.356		-54 47	44.38	4	9003	6845	9918
11 5	13 49	39.7340		1	19 25	4.212		-55 26	45.09	4	9003	6845	9919
11 5	15 6	18.7447		1	4 19	24.452		67 58	26.70	4	9008	4898	6937
11 5	15 6	22.7444		1	4 13	41.964		67 23	21.98	4	9008	4898	6938
11 5	20 44	7.2096		1	18 56	41.280		-62 0	3.92	4	9002	5550	9916
11 6	1 29	24.2874		1	3 17	16.812		58 21	50.02	4	9001	2441	6556
11 6	1 29	32.2873		1	3 10	23.674		56 42	5.50	4	9001	2441	6557
11 6	3 14	22.7563		10	17 34	23.205		37 3	54.07	4	9001	2448	7654
11 6	3 14	26.7565		10	17 37	32.897		36 40	31.87	4	9001	2448	6559
11 6	12 17	43.0881		1	3 12	20.079		-65 28	15.22	4	9003	6850	9920

DATE Y M D	TIME (A-L)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	ORS. NO.
	H	M	S		H	M	S	D	M	S			
1963 11 6	12	17	49.0881	1	3	25	4.479	-66	13	39.60	9003	6850	9921
11 6	15	20	40.3180	1	2	21	31.474	82	36	37.07	9008	4909	6939
11 6	15	20	42.3183	1	2	16	21.210	82	12	37.94	9008	4909	6940
11 7	0	1	34.6206	1	2	8	38.829	58	1	58.69	9010	1491	6945
11 7	0	1	50.6223	1	2	1	55.467	53	46	21.50	9010	1491	6946
11 7	1	43	52.9813	1	1	24	1.691	67	27	36.71	9001	2465	6561
11 7	1	43	58.9813	1	1	21	8.987	65	40	58.35	9001	2465	6562
11 7	1	46	42.9179	1	18	9	33.973	23	14	42.46	9010	1498	6947
11 7	1	46	54.9167	1	18	16	1.050	21	36	51.83	9010	1498	6948
11 7	5	13	20.8406	1	3	3	27.192	73	49	52.45	9012	1820	8876
11 7	5	13	26.8407	1	2	56	57.965	72	50	21.92	9012	1820	8877
11 7	10	46	12.8221	1	4	23	24.900	-19	13	47.91	9003	6875	9922
11 7	10	46	20.8215	1	4	27	21.497	-20	10	3.58	9003	6875	1302
11 7	12	29	38.8738	1	21	49	29.562	-31	50	2.63	9003	6884	9924
11 7	12	29	48.8737	1	21	50	25.964	-35	13	42.04	9003	6884	9925
11 7	13	52	8.1088	1	20	7	41.716	63	36	40.43	9006	9305	6497
11 7	13	52	10.1087	1	20	11	39.819	63	13	6.47	9006	9305	6498
11 8	8	52	43.7035	1	0	55	40.870	51	40	48.24	9005	9124	165
11 8	8	52	59.7042	1	0	52	22.318	46	10	53.02	9005	9124	166
11 8	10	56	46.6500	1	1	57	3.851	10	46	17.35	9003	6904	1303
11 8	10	56	50.5563	1	1	59	11.260	9	58	12.58	9003	6904	9927
11 8	12	40	42.4480	1	20	39	47.042	6	58	10.57	9003	6909	9928
11 8	12	40	50.4477	1	20	39	47.789	5	48	18.80	9003	6909	9929
11 8	15	51	54.5945	1	20	22	29.842	13	27	6.22	9008	4926	6941
11 8	15	52	59.46	1	20	27	32.047	11	34	28.55	9008	4926	6942
11 8	19	16	35.2722	1	20	8	42.405	37	10	10.67	9004	1238	154
11 8	19	16	39.2721	1	20	13	52.561	35	54	59.69	9004	1238	155
11 9	2	13	25.8804	1	19	47	52.564	26	47	53.12	9001	2483	6563
11 9	2	13	29.8806	1	19	52	2.424	25	37	18.17	9001	2483	6564
11 9	12	56	21.9373	1	20	2	34.038	-10	34	59.74	9003	6933	4180
11 9	12	56	29.9371	1	20	1	44.628	-11	48	46.44	9003	6933	9099
11 9	14	22	15.9035	1	19	4	15.762	3	21	9.08	9006	9360	6499
11 9	14	22	19.9035	1	19	6	37.101	2	30	26.00	9006	9360	6500
11 10	2	27	39.5557	1	18	45	44.401	11	26	41.00	9001	2493	6565
11 10	2	27	47.5556	1	18	51	20.254	9	44	21.67	9001	2493	6566
11 10	9	21	31.0697	1	19	45	59.786	27	20	6.41	9005	9149	167
11 10	9	22	7.0698	1	20	22	43.406	15	59	49.93	9005	9149	168
11 10	12	50	51.1313	1	0	2	48.111	27	52	59.02	9006	9377	6501
11 10	12	50	53.1313	1	0	3	4.879	27	9	31.55	9006	9377	6502
11 10	19	45	20.0556	1	18	28	38.246	4	43	10.01	9004	1246	156
11 10	19	45	24.0555	1	18	31	4.206	4	1	1.61	9004	1246	157
11 10	23	19	1.0409	1	23	50	55.804	21	40	30.07	9009	9489	6944
11 11	1	17	52.3496	1	20	53	43.926	-32	54	15.86	9011	1273	171
11 11	13	4	39.0871	1	21	12	59.566	29	45	43.07	9006	9408	6503
11 11	23	27	20.7011	1	22	5	22.978	51	6	6.99	9010	1556	6949

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.	SRS.NO.
1963 11 11	23 27	26.7015	1	22 10 20.596	4	9010	1556	07
11 12	1 10	18.2268	1	21 17 46.368	4	9001	2536	03
11 12	1 10	26.2268	1	21 25 11.203	4	9001	2536	07
11 12	4 41	13.0554	1	22 43 23.493	4	9012	1858	02
11 12	4 41	15.0554	1	22 44 29.435	4	9012	1858	03
11 12	11 51	59.4960	1	19 56 2.428	4	9003	6985	05
11 12	13 18	57.9800	1	19 18 8.827	4	9006	9429	05
11 12	15 2	28.4027	1	19 14 1.352	4	9008	4975	03
11 13	4 55	33.7551	1	20 1 34.495	4	9012	1869	04
11 13	4 55	39.7551	1	20 6 16.506	4	9012	1869	07
11 16	11 3	12.2649	1	19 12 12.711	4	9003	7064	03
11 17	11 19	34.2287	1	18 27 43.713	4	9003	7092	06
11 17	11 19	54.2282	1	18 23 26.733	4	9003	7092	11
11 21	17 58	28.9285	1	11 19 7.682	4	9003	7198	03
11 22	7 46	2.0639	1	9 16 10.467	4	9011	1449	04
11 22	7 46	8.0637	1	9 19 10.863	4	9011	1449	07
11 23	1 9	22.8471	1	11 19 18.020	4	9002	5727	04
11 23	8 0	40.4341	1	6 24 43.812	4	9011	1465	14
11 23	8 0	54.4336	1	6 40 11.810	4	9011	1465	21
11 23	11 47	13.9999	1	12 14 29.154	4	9001	2690	03
11 23	11 47	25.9992	1	12 22 24.670	4	9001	2690	06
11 24	12 1	22.5503	1	10 58 35.265	4	9001	2720	06
11 24	12 1	28.5499	1	11 3 55.978	4	9001	2720	09
11 26	5 35	28.3342	1	8 53 38.201	4	9004	1397	03
11 26	5 35	30.3343	1	8 55 18.707	4	9004	1397	04
11 26	6 57	32.4491	1	8 25 32.949	4	9011	1507	11
11 26	6 57	36.4490	1	8 27 35.341	4	9011	1507	13
11 26	12 29	55.6852	1	6 22 49.512	4	9001	2736	03
11 26	12 30	5.6852	1	6 22 27.944	4	9001	2736	08
11 27	5 49	37.3247	1	6 25 8.342	4	9004	1404	04
11 27	5 49	41.3248	1	6 24 52.362	4	9004	1404	06
11 27	12 44	33.4659	1	5 0 27.693	4	9001	2760	03
11 27	12 44	45.4659	1	4 56 12.339	4	9001	2760	06
11 27	23 5	44.4693	1	9 38 38.644	4	9006	9663	05
11 28	19 54	58.9844	1	5 9 28.075	4	9005	9321	11
11 30	4 49	7.7167	1	14 48 5.215	4	9004	1423	07
11 30	4 49	11.7169	1	14 59 55.968	4	9004	1423	08
11 30	11 44	29.8175	1	21 48 46.666	4	9001	2816	05
11 30	11 44	33.8175	1	21 33 4.438	4	9001	2816	06
11 30	16 31	34.1569	1	7 48 44.337	4	9003	7320	05
11 30	16 31	36.1570	1	7 49 42.237	4	9003	7320	06
12 1	16 44	34.8992	1	3 30 39.640	4	9003	7340	08
12 1	16 44	38.8990	1	3 36 21.118	4	9003	7340	10
12 4	15 40	28.2433	1	3 31 44.938	4	9003	7369	07
12 4	15 40	32.2718	1	3 44 51.290	4	9003	7369	09

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.	ORS.NO.
1963 12 6	14 20 45.0900	1	14 27 18.132	-74 4 5.02	9003	7403	1980
12 6	14 20 49.0901	1	14 18 35.160	-74 5 33.69	9003	7407	1981
12 7	14 36 38.8737	1	9 41 57.288	-82 21 36.42	9003	7434	2930
12 7	14 36 42.8734	1	9 30 17.749	-81 34 8.33	9003	7434	2931
12 8	14 50 44.2204	1	0 30 24.234	-73 18 47.02	9003	7456	2932
12 9	15 4 48.2174	1	0 2 57.504	-51 18 39.95	9003	7484	2933
12 10	13 34 22.2452	10	9 19 34.655	-56 3 22.37	9003	7502	2934
12 10	13 34 26.2451	10	9 16 51.505	-55 7 46.90	9003	7502	2935
12 12	14 1 56.6881	1	0 35 50.779	-68 19 22.63	9003	7543	2936
12 12	14 1 58.6375	1	0 40 29.883	-68 11 32.14	9003	7543	2937
12 13	12 31 49.3123	1	8 51 32.624	-38 47 37.99	9003	7560	2938
12 13	12 32 9.3117	1	8 44 22.394	-34 50 44.20	9003	7560	2939
12 13	14 15 42.7166	1	23 29 32.426	-47 33 38.59	9003	7571	2940
12 13	14 15 46.7166	1	23 33 37.657	-47 14 16.56	9003	7571	2941
12 14	12 45 22.0568	1	8 25 50.063	-55 59 4.75	9003	7595	2942
12 14	12 45 29.8595	1	8 21 7.936	-54 0 34.50	9003	7595	2943
12 15	13 0 .0200	1	6 0 11.394	-58 13 15.62	9003	7622	2061
12 15	19 55 45.0236	1	8 13 50.515	-56 59 58.59	9002	5936	2294
12 16	20 9 12.0404	1	4 25 10.806	-78 55 11.99	9002	5956	2295
12 17	20 23 42.7973	1	0 34 45.141	-58 3 23.93	9002	5973	3627
12 19	19 8 3.4444	1	6 56 53.471	-34 22 53.34	9002	6001	2297
12 19	19 8 7.4446	1	6 56 20.772	-33 11 22.84	9002	6001	2298
12 19	20 51 34.8242	1	23 6 25.491	-24 44 3.36	9002	6005	2299
12 19	20 51 58.8239	1	23 18 48.467	-21 31 16.09	9002	6005	3628
12 21	0 29 47.0622	1	7 42 31.874	-50 44 48.96	9011	1905	1982
12 21	0 29 59.0618	1	7 35 36.574	-48 3 6.91	9011	1905	1983
12 21	2 15 3.6238	1	22 57 12.411	-32 22 12.04	9011	1911	1984
12 21	2 15 7.6238	1	23 0 30.224	-31 47 16.10	9011	1911	1985
12 21	12 40 37.7168	1	0 58 57.195	-2 56 47.35	9003	7771	2062
12 21	12 40 45.7166	1	1 4 48.832	-0 48 .10	9003	7771	2063
12 21	19 36 5.2563	10	1 33 45.372	-31 26 23.36	9002	6027	4822
12 22	19 49 58.7139	1	23 51 11.559	-17 48 14.12	9002	6051	2301
12 23	0 58 40.9100	1	2 50 27.182	-54 34 11.30	9011	1963	1986
12 23	0 58 42.9098	1	2 52 49.867	-53 50 46.59	9011	1963	1987
12 23	11 25 25.1319	1	4 54 31.070	16 22 20.90	9003	7811	2464
12 23	11 25 53.1323	1	5 0 5.999	21 15 33.08	9003	7811	2065
12 23	18 20 58.8239	1	6 2 52.510	0 20 11.68	9002	6059	7211
12 23	18 21 14.8252	1	6 3 28.402	3 52 57.20	9002	6059	4823
12 24	1 15 12.0919	1	5 57 17.862	-64 43 49.47	9007	1629	2459
12 24	1 15 16.0918	1	5 57 10.538	-63 47 38.14	9007	1629	2460
12 28	0 27 46.9612	1	2 16 1.437	31 18 26.18	9011	2048	1988
12 28	6 22 30.9349	1	18 42 49.312	47 51 58.39	9004	1550	2461
12 29	6 34 45.0169	1	21 49 29.388	75 14 3.75	9004	1554	2462
12 29	6 34 53.0170	1	21 25 49.207	74 57 40.95	9004	1554	2463
12 29	20 27 20.0344	1	18 18 56.039	47 55 48.57	9005	9621	3082
12 29	20 27 29.6339	1	18 13 12.584	46 2 9.28	9005	9621	4194

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.	NRS.NO.
1963 10 1	10 43 34.2212	1	5 0 44.488	- 1 41 27.58	9001	1881	09 5637
10 2	1 49 56.0617	1	11 45 26.288	65 35 49.57	9001	1891	07 7125
10 2	1 50 4.0617	1	11 33 7.842	66 29 35.50	9001	1891	09 7126
10 3	9 41 53.1303	1	4 1 41.335	-30 50 54.07	9007	424	05 7688
10 3	9 42 1.1303	1	4 5 5.724	-33 47 49.18	9007	424	09 5640
10 7	9 0 13.4775	1	5 46 51.274	-80 25 17.42	9011	874	06 5641
10 7	9 0 17.4773	1	6 1 36.031	-81 9 47.58	9011	874	07 5642
10 8	2 11 33.7713	10	2 54 39.155	17 57 9.95	9002	5085	09 5648
10 8	2 11 41.7758	10	2 56 31.445	16 21 1.90	9002	5085	11 7129
10 8	17 52 6.7052	1	9 45 45.319	-31 14 17.72	9003	6349	04 7307
10 8	17 52 14.7051	1	9 50 34.745	-31 59 41.74	9003	6349	06 7308
10 11	18 31 23.2778	1	2 22 1.861	-21 37 41.08	9003	6423	09 7309
10 11	18 31 27.2775	1	2 22 41.054	-22 57 47.95	9003	6423	11 7310
10 12	18 50 38.7256	1	19 9 16.747	-78 17 10.17	9003	6448	03 7311
10 12	18 50 54.7254	1	18 26 10.403	-77 38 8.92	9003	6448	07 7312
10 13	17 16 28.1216	1	7 41 26.231	-39 43 31.13	9003	6462	14 7313
10 13	17 16 32.1217	1	7 45 38.062	-40 24 5.38	9003	6462	16 7314
10 14	17 30 52.6603	1	6 5 47.438	-62 40 26.64	9003	6484	03 7315
10 14	17 30 58.6604	1	6 17 21.645	-63 47 32.77	9003	6484	06 7316
10 15	7 22 4.1734	1	1 27 3.311	-61 49 52.20	9011	983	03 5643
10 15	7 22 14.1731	1	1 26 16.582	-64 49 46.85	9011	983	08 5644
10 15	17 45 .2434	1	1 32 44.920	-64 55 33.24	9003	6506	04 7317
10 16	17 59 35.3083	1	23 23 51.710	-57 13 4.68	9003	6527	05 7318
10 16	17 59 37.2610	1	23 22 33.268	-57 38 34.34	9003	6527	06 7319
10 19	6 34 54.9793	1	23 0 47.040	-80 37 35.92	9011	1038	06 5645
10 19	6 35 6.9790	1	22 21 46.595	-82 43 54.65	9011	1038	09 5646
10 20	6 49 12.4011	1	21 48 16.364	-65 4 29.07	9011	1063	05 7128
10 21	17 26 30.2252	1	21 25 16.703	-56 20 57.85	9003	6593	07 7691
10 21	17 26 34.2252	1	21 22 4.837	-56 52 27.95	9003	6593	08 8307
11 3	9 33 24.6234	1	4 28 27.254	65 31 17.88	9005	9109	08 6577
11 3	9 33 44.6234	1	4 1 4.033	61 56 17.66	9005	9109	13 7102
11 4	13 15 59.7196	1	4 28 15.536	59 24 56.32	9006	9241	09 6155
11 4	13 16 3.7195	1	4 24 32.721	58 51 46.20	9006	9241	10 6156
11 5	1 21 15.8948	1	5 15 23.431	63 28 7.43	9001	2417	01 7104
11 5	1 21 23.8950	1	5 5 13.689	62 41 17.10	9001	2417	03 6029
11 5	1 23 24.9928	1	3 21 59.047	44 31 16.43	9001	2418	01 6030
11 5	1 23 28.9930	1	3 19 54.581	43 47 17.51	9001	2418	02 6031
11 5	3 7 18.5764	1	17 0 10.574	52 19 30.85	9001	2424	01 6032
11 5	3 7 22.5764	1	17 4 24.613	52 11 40.47	9001	2424	02 6033
11 6	1 35 6.7229	1	7 23 51.338	75 27 40.84	9001	2442	03 6034
11 6	1 35 18.7231	1	6 52 1.569	75 29 1.75	9001	2442	06 6035
11 6	1 38 48.2399	1	2 15 3.269	37 18 13.44	9001	2443	03 6036
11 6	1 38 52.2399	1	2 13 48.973	36 15 36.86	9001	2443	04 7105
11 6	2 3 7.5295	1	3 25 29.431	-73 54 18.66	9011	1236	03 8587
11 6	2 3 11.5294	1	3 37 57.880	-74 16 19.59	9011	1236	04 8588

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.	OBS. NO.
1963 11 6	3	21	34.0574	10	17	12	45.428	37	4	31.65	9001	2449	04 6560
11 6	15	30	43.7157	1	0	40	26.273	46	33	19.64	9008	4910	07 8575
11 7	0	9	34.6775	1	1	43	29.110	59	33	55.87	9010	1493	04 8581
11 7	0	9	38.6781	1	1	42	11.794	58	26	.07	9010	1493	06 9348
11 7	1	54	28.1176	1	18	6	30.601	22	11	27.08	9010	1499	05 8583
11 7	1	54	35.4163	1	0	46	28.193	12	43	8.51	9001	2466	02 6037
11 7	1	54	36.1173	1	18	10	29.876	21	11	13.83	9010	1499	07 8584
11 7	5	22	41.7076	1	1	48	58.860	59	41	41.75	9012	1822	05 8591
11 7	5	22	45.7076	1	1	48	8.303	58	41	4.73	9012	1822	07 8592
11 7	10	54	5.3552	1	4	22	31.343	-20	31	38.10	9003	6876	06 6573
11 7	10	54	9.3549	1	4	24	37.885	-21	1	22.74	9003	6876	07 6574
11 7	12	37	59.9564	1	21	28	52.614	-38	15	5.47	9003	6885	10 6575
11 8	0	26	44.8367	1	23	46	26.374	0	58	18.06	9010	1519	06 8585
11 8	0	26	52.8368	1	23	49	7.382	-1	29	3.64	9010	1519	08 8586
11 9	12	47	55.0040	1	1	13	50.670	-11	1	2.65	9006	9353	06 6157
11 9	12	48	7.0039	1	1	14	12.087	-12	47	26.21	9006	9353	09 6158
11 9	14	28	9.9652	1	17	36	30.101	25	36	13.86	9006	9361	09 6159
11 9	16	10	57.7745	1	17	0	55.944	32	42	56.38	9008	4946	05 9345
11 9	16	11	5.7747	1	17	5	46.785	31	58	5.93	9008	4946	07 8577
11 10	2	33	.6198	1	16	39	34.500	34	31	42.72	9001	2494	04 7555
11 10	2	33	8.6201	1	16	44	48.457	33	52	38.46	9001	2494	06 6039
11 11	1	2	37.3905	1	22	4	43.949	81	18	48.26	9001	2515	04 6040
11 11	1	2	45.3908	1	22	23	32.319	79	21	53.87	9001	2515	06 6041
11 11	4	33	25.0892	1	0	46	53.703	71	59	49.94	9012	1831	03 8593
11 11	4	33	35.0894	1	0	45	3.687	69	46	37.92	9012	1831	08 8594
11 13	15	22	38.6454	1	16	34	39.095	28	54	20.86	9008	4996	03 25
11 13	15	22	54.6454	1	16	43	47.616	27	12	19.76	9008	4996	07 8579
11 14	5	22	10.5595	1	19	55	2.516	-38	45	43.67	9012	1894	06 8595
11 14	5	22	12.5595	1	19	55	48.469	-39	4	13.45	9012	1894	07 8596
11 16	12	39	48.6877	1	18	42	16.391	-3	36	46.80	9006	9483	07 6160
11 16	12	39	54.6877	1	18	45	59.066	-5	1	57.84	9006	9483	10 6161
11 16	23	4	50.8812	1	17	13	10.504	27	11	28.07	9009	9507	09 9347
11 16	23	4	52.8814	1	17	13	58.847	26	54	27.68	9009	9507	10 705
11 17	11	30	54.8442	1	17	53	.598	-41	48	52.68	9003	7094	10 6576
11 18	1	1	54.0109	1	18	46	4.730	-25	15	52.93	9001	2629	03 6042
11 18	1	1	58.0109	1	18	47	46.943	-25	51	4.01	9001	2629	04 6043
11 21	14	51	35.1073	1	12	3	14.222	-31	27	8.02	9012	2026	07 8597
11 21	14	51	37.1073	1	12	3	54.479	-31	7	15.43	9012	2026	08 8598
11 21	14	55	4.0262	1	13	20	55.591	7	17	56.17	9012	2027	04 8599
11 21	14	55	6.0262	1	13	21	44.858	7	39	3.99	9012	2027	05 8600
11 23	8	12	1.3485	1	6	50	34.907	-8	17	47.64	9011	1467	06 8589
11 23	8	12	13.3484	1	6	59	54.115	-4	18	43.72	9011	1467	12 8590
11 23	12	0	41.2650	1	14	36	47.412	37	13	14.96	9001	2694	02 6044
11 23	12	0	49.2649	1	14	43	12.505	37	57	53.35	9001	2694	04 6045
11 29	23	48	12.3527	1	1	45	13.056	69	59	23.23	9006	9715	05 6162

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.	SRS.NO.
1963 11 29	23 48	24.3527	1 23 8.416	70 59 50.26	9006	9715	08 6163
12 1	16 56	.7502	3 5 13.578	-40 22 42.42	9003	7341	03 2066
12 4	15 51	57.5474	1 32 33.754	-68 33 .28	9003	7370	03 2067
12 6	14 35	11.1370	10 13 38.167	-65 13 25.63	9003	7410	05 2068
12 7	4 26	9.0214	4 15 50.305	-80 9 42.52	9011	1649	09 2094
12 7	14 48	41.2419	1 12 25.106	-86 56 56.07	9003	7435	03 2069
12 7	14 48	49.2415	3 8 16.566	-86 36 52.04	9003	7435	05 2070
12 10	13 46	42.6251	9 14 29.369	-66 41 26.23	9003	7504	08 2071
12 11	3 37	42.2914	2 48 15.472	-75 58 17.25	9011	1705	04 2095
12 11	3 37	46.2913	3 1 54.571	-75 19 48.76	9011	1705	05 2096
12 11	14 0	16.4601	0 53 42.015	-82 54 1.48	9003	7531	06 2075
12 12	3 51	35.4278	23 58 .988	-54 55 56.30	9011	1736	01 2097
12 14	2 35	59.7078	7 18 29.153	-53 50 56.95	9011	1778	02 3590
12 15	13 13	9.4764	4 5 35.617	-63 37 34.87	9003	7623	05 2083
12 16	11 42	58.4138	8 13 46.187	-27 2 12.64	9003	7643	02 2085
12 17	1 34	38.6728	7 29 25.349	-22 24 59.42	9011	1822	08 2135
12 17	1 34	42.6728	7 28 45.515	-21 27 31.35	9011	1822	09 2136
12 19	2 2	41.4369	3 36 12.961	-30 5 7.52	9011	1865	06 2137
12 19	2 2	55.4366	3 47 21.757	-24 19 10.52	9011	1865	13 2138
12 20	2 16	56.5584	1 18 21.617	-15 44 45.16	9011	1887	05 2139
12 20	2 17	.5585	1 21 58.621	-14 32 5.71	9011	1887	07 2140
12 20	10 54	14.2056	7 35 9.690	-29 7 34.07	9003	7743	09 2084
12 20	12 40	29.0742	1 50 1.261	-11 36 2.60	9003	7750	05 2086
12 20	12 40	31.0741	1 51 45.337	-10 56 26.55	9003	7750	06 2087
12 21	11 10	23.4202	6 41 8.095	-7 5 56.03	9003	7767	06 2088
12 21	11 10	27.4202	6 40 51.122	-6 18 23.33	9003	7767	07 2466
12 22	11 24	50.1169	5 39 40.310	0 22 20.41	9003	7790	06 2090
12 23	11 39	3.5682	3 55 30.524	8 11 30.10	9003	7812	02 2091
12 23	11 39	13.5681	3 59 33.796	10 48 20.78	9003	7812	07 2092
12 23	18 35	32.8221	5 33 27.053	3 27 4.91	9002	6061	01 2072
12 24	1 31	1.2248	4 51 30.375	-48 57 58.96	9007	1630	09 2082
12 25	12 2	41.3887	21 29 12.412	-33 48 23.93	9003	7838	02 2093
12 28	0 38	40.1353	22 39 4.382	-25 56 2.30	9011	2041	20 2141
12 28	0 38	48.1351	22 46 5.120	-24 14 40.15	9011	2041	24 2142
12 28	6 34	46.1031	23 20 41.428	70 9 16.81	9004	1551	02 2076
12 28	11 1	46.6976	22 38 3.994	-30 8 42.66	9003	7872	05 2143
12 28	20 30	37.2929	17 51 22.224	22 12 50.14	9005	9611	03 2077
12 28	20 30	42.1002	17 50 20.748	21 25 43.26	9005	9611	04 2078
12 29	20 40	17.6564	22 13 51.164	72 56 25.28	9005	9623	05 2079
12 31	0 25	25.6242	18 28 51.590	49 10 38.90	9006	143	04 2465
12 31	0 25	37.6232	18 22 30.507	47 5 1.12	9006	143	07 2081
12 31	12 29	36.7379	20 0 7.607	63 23 41.27	9001	3206	04 2073
12 31	12 29	40.7380	19 55 11.173	63 0 19.25	9001	3206	05 2074

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.	URS.NO.
1963 10 1	3	4	41.9841	1	8	26	18.263	43 38 32.26	4		9004	712	05 5340
10 1 1	3	4	49.9842	1	8	27	41.673	44 12 27.18	4		9004	712	06 5341
10 1 1	8	4	6.4442	1	7	44	19.564	-11 0 34.25	4		9011	751	02 6021
10 1 1	8	4	14.4448	1	7	43	29.810	-10 25 37.70	4		9011	751	03 6022
10 2 1	1	55	45.0337	1	15	40	8.466	38 52 33.82	4		9001	1892	05 5268
10 2 1	1	56	9.0340	1	15	42	15.486	36 55 47.93	4		9001	1892	08 5269
10 2 2	8	53	23.1066	1	7	24	14.253	-39 16 39.33	4		9011	770	07 6023
10 2 2	8	53	31.1064	1	7	22	48.929	-38 35 59.33	4		9011	770	08 6024
10 2 2	9	29	27.6421	1	8	32	12.512	39 31 29.24	4		9001	1901	05 5830
10 2 2	12	1	45.0247	1	5	38	59.270	-15 20 19.48	4		9001	1907	04 5831
10 2 2	12	1	53.0244	1	5	38	32.011	-14 45 43.67	4		9001	1907	05 5272
10 2 2	15	45	39.3076	1	15	12	51.144	38 6 54.66	4		9008	4383	05 5755
10 2 2	15	45	47.3079	1	15	13	43.940	37 33 8.73	4		9008	4383	06 5756
10 2 2	23	12	42.1096	1	6	1	.572	26 4 5.31	4		9006	8753	06 4973
10 2 2	23	13	22.1111	1	5	58	49.567	30 12 9.19	4		9006	8753	11 4477
10 2 2	23	16	59.2789	1	8	13	27.096	36 1 54.56	4		9008	4391	04 5757
10 2 2	23	17	11.2788	1	8	14	45.649	36 54 28.34	4		9008	4391	07 5758
10 3 3	4	48	37.8280	1	5	59	19.383	37 15 48.41	4		9004	736	07 5342
10 3 3	4	49	9.8282	1	5	57	38.515	40 35 6.28	4		9004	736	11 5821
10 3 3	10	20	47.2842	1	7	44	42.021	36 13 26.11	4		9001	1915	04 5273
10 3 3	10	21	19.2848	1	7	47	34.184	38 55 52.93	4		9001	1915	08 5274
10 3 3	19	24	11.8427	1	15	32	28.003	39 57 44.59	4		9004	742	06 5344
10 3 3	19	24	19.8428	1	15	33	23.292	39 20 10.11	4		9004	742	07 5345
10 4 4	0	8	39.7864	1	7	16	12.807	32 19 9.85	4		9008	4415	03 5759
10 4 4	0	8	51.7865	1	7	16	39.926	33 25 52.98	4		9008	4415	06 5760
10 4 4	2	59	58.2076	1	8	16	49.232	39 57 53.69	4		9004	751	04 5822
10 4 4	3	0	6.2075	1	8	17	58.196	40 33 7.23	4		9004	751	05 5823
10 4 4	7	57	42.0688	1	8	2	49.500	-23 32 46.69	4		9011	802	06 6025
10 4 4	7	57	50.0686	1	8	1	43.342	-22 57 54.33	4		9011	802	07 6026
10 4 4	11	13	11.1141	1	6	28	58.599	33 43 57.30	4		9001	1937	04 5275
10 4 4	11	13	19.1139	1	6	28	50.503	34 32 47.68	4		9001	1937	05 5276
10 4 4	22	16	47.5554	10	7	19	18.711	32 41 49.86	4		9006	8774	05 5519
10 4 4	22	17	3.5557	10	7	19	57.708	34 10 20.17	4		9006	8774	09 5520
10 4 4	23	17	38.9278	1	15	38	53.578	11 52 41.11	4		9009	9160	04 5427
10 4 4	23	17	50.9276	1	15	38	54.816	11 0 58.48	4		9009	9160	07 5428
10 5 5	1	1	32.3483	1	5	48	16.187	29 28 47.25	4		9008	4438	03 5761
10 5 5	1	1	38.3480	1	5	47	50.831	30 6 8.81	4		9008	4438	06 5762
10 5 5	1	51	34.8016	1	15	35	4.860	40 33 58.09	4		9001	1942	02 5277
10 5 5	1	51	42.8015	1	15	35	54.947	39 56 1.40	4		9001	1942	03 5278
10 5 5	8	50	7.1155	1	7	14	23.279	-38 2 37.20	4		9011	827	04 6027
10 5 5	8	50	15.1155	1	7	13	3.834	-37 20 19.39	4		9011	827	05 6028
10 5 5	9	10	41.9995	1	6	5	7.547	6 13 28.73	4		9009	9176	07 5429
10 5 5	9	11	13.9999	1	6	3	3.912	9 29 6.40	4		9009	9176	11 5430
10 5 5	9	19	2.0104	1	6	45	51.996	28 54 11.84	4		9010	1143	04 5382
10 5 5	9	19	18.0096	1	6	45	44.244	30 29 22.55	4		9010	1143	06 5383

DATE			TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	OBS. NO.
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S			
1963	10	5	9	25	24.9806	1	8	30	18.758	38	52	46.50	4	9001	1949	04
10	5	9	25	28.9807	1	1	8	30	51.520	39	8	58.30	4	9001	1949	05
10	5	12	1	3.3583	1	1	5	22	56.329	-	1	22	32.97	4	1957	05
10	5	12	1	11.3584	1	1	5	22	22.107	-	0	41	18.67	4	1957	06
10	5	14	46	46.7587	1	1	6	16	23.054	15	27	32.11	4	9012	1465	03
10	5	14	47	24.7586	1	1	6	15	35.241	17	5	10.42	4	9012	1465	05
10	5	15	42	19.6407	1	1	15	15	6.300	35	59	54.93	4	9008	4441	05
10	5	15	42	27.6410	1	1	15	15	56.293	35	26	46.31	4	9008	4441	06
10	5	23	13	16.4812	1	1	8	12	54.213	36	40	4.43	4	9008	4450	04
10	5	23	13	28.4812	1	1	8	14	11.534	37	33	56.87	4	9008	4450	07
10	6	4	44	17.0832	1	1	5	54	20.046	33	11	55.99	4	9004	786	03
10	6	4	44	33.0831	1	1	5	53	21.432	34	51	34.53	4	9004	786	05
10	6	13	50	21.9454	1	1	15	15	9.105	36	46	59.38	4	9006	8793	08
10	6	13	50	53.9459	1	1	15	18	25.564	34	34	20.62	4	9006	8793	12
10	6	19	20	16.9316	1	1	15	29	34.878	40	23	14.07	4	9004	791	05
10	6	19	20	24.9318	1	1	15	30	33.511	39	46	44.24	4	9004	791	06
10	6	21	20	57.1034	1	1	8	12	33.649	34	50	32.22	4	9006	8803	08
10	6	21	21	13.1038	1	1	8	14	10.368	36	1	54.74	4	9006	8803	10
10	7	7	55	1.9201	1	1	7	53	17.663	-19	45	3.24	4	9011	866	08
10	7	7	55	9.9200	1	1	7	52	16.646	-19	8	41.00	4	9011	866	09
10	7	11	9	16.3234	1	1	6	22	33.315	32	34	2.90	4	9001	1988	04
10	7	11	9	20.3234	1	1	6	22	26.477	32	58	42.71	4	9001	1988	05
10	7	22	13	33.7479	1	1	7	15	45.584	35	48	31.99	4	9006	8823	05
10	7	22	13	49.7484	1	1	7	16	21.980	37	18	51.24	4	9006	8823	07
10	8	1	48	15.6043	10	10	15	35	34.575	38	13	39.70	4	9001	1993	08
10	8	1	48	23.6047	10	10	15	36	22.212	37	36	35.54	4	9001	1993	09
10	8	3	48	26.5069	1	1	7	16	8.772	40	6	9.93	4	9004	819	05
10	8	3	48	34.5067	1	1	7	16	38.408	40	51	34.62	4	9004	819	06
10	8	8	44	32.1444	1	1	7	29	58.463	-48	42	8.97	4	9011	892	03
10	8	8	44	40.1444	1	1	7	28	13.691	-48	2	46.41	4	9011	892	04
10	8	9	21	31.2284	1	1	8	29	23.063	38	48	4.99	4	9001	2002	07
10	8	9	21	39.2298	1	1	8	30	28.330	39	21	13.70	4	9001	2002	08
10	8	10	1	55.8338	1	1	14	51	22.113	46	16	8.48	4	9005	8973	03
10	8	10	2	3.8338	1	1	14	52	53.092	45	45	28.20	4	9005	8973	04
10	8	15	38	21.9924	1	1	15	13	34.509	36	31	52.39	4	9008	4487	04
10	8	15	38	37.9929	1	1	15	15	17.352	35	27	25.49	4	9008	4487	06
10	8	23	5	33.9682	1	1	5	45	43.410	27	24	31.45	4	9006	8843	09
10	8	23	5	41.9686	1	1	5	45	7.189	28	14	15.54	4	9006	8843	10
10	8	23	59	41.8775	1	1	15	39	25.586	29	40	40.29	4	9010	1165	02
10	8	23	59	49.8784	1	1	15	39	55.646	29	4	39.94	4	9010	1165	03
10	9	4	41	.8255	1	1	5	45	24.829	35	44	37.17	4	9004	843	07
10	9	4	41	8.8256	1	1	5	44	47.454	36	34	26.82	4	9004	843	08
10	9	10	7	14.7982	1	1	5	11	24.164	16	48	46.76	4	9010	1177	03
10	9	10	7	30.7994	1	1	5	9	51.783	18	24	35.77	4	9010	1177	05
10	9	10	13	6.5435	1	1	7	37	34.010	36	0	3.59	4	9001	2022	06

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.	OBS. NO.
1963 10 9	10 13	14.5435	7 38 7.812	36 42 37.30	4	9001	2022	07 9799
10 9	12 56	9.9166	8 18 13.881	31 5 29.97	4	9012	1485	04 5305
10 9	21 17	8.5632	8 11 12.253	35 0 16.80	4	9006	8853	04 5529
10 9	21 17	48.5648	8 15 15.898	38 3 8.71	4	9006	8853	09 5530
10 10	2 55	16.5811	8 46 46.572	53 33 36.28	4	9004	854	05 5356
10 10	2 55	24.5819	8 48 47.804	54 7 27.24	4	9004	854	06 5357
10 10	5 26	5.2453	5 8 13.533	-12 47 44.77	4	9004	863	02 8852
10 10	5 26	45.2447	5 5 28.413	-9 57 8.82	4	9004	863	07 8853
10 10	8 19	25.6361	7 49 38.804	33 22 9.16	4	9010	1186	06 5388
10 10	8 19	33.6364	7 50 9.373	34 2 40.63	4	9010	1186	07 5389
10 10	11 5	42.4661	6 15 17.110	33 28 37.64	4	9001	2043	03 9800
10 10	11 5	50.4674	6 14 57.205	34 18 13.35	4	9001	2043	04 9801
10 10	13 47	29.6828	7 25 5.899	24 50 37.79	4	9012	1500	03 5306
10 10	13 47	45.6827	7 25 17.092	26 18 1.28	4	9012	1500	05 5307
10 10	22 12	30.9821	7 17 30.646	51 17 29.69	4	9006	8872	03 5531
10 10	22 12	38.9829	7 18 2.955	52 1 18.28	4	9006	8872	04 5532
10 11	0 52	58.4925	5 39 16.494	21 48 2.71	4	9008	4534	03 5515
10 11	0 53	14.4929	5 37 59.208	23 26 38.05	4	9008	4534	07 5516
10 11	1 44	9.5013	15 31 33.045	39 30 46.98	4	9001	2053	06 9802
10 11	1 44	17.5013	15 32 25.836	38 54 41.59	4	9001	2053	07 9803
10 11	3 44	26.2874	7 10 13.583	38 52 41.87	4	9004	875	04 8854
10 11	3 44	58.2880	7 11 49.464	41 57 40.34	4	9004	875	08 8855
10 11	8 41	20.8167	7 16 39.596	-47 11 49.63	4	9011	954	06 4641
10 11	8 41	28.8165	7 15 5.484	-46 30 26.92	4	9011	954	07 4642
10 11	9 3	29.9447	5 49 57.340	6 51 47.07	4	9009	9209	03 5431
10 11	9 4	9.9458	5 47 1.793	10 58 35.35	4	9009	9209	08 5432
10 11	9 17	20.8384	8 26 4.788	37 31 17.59	4	9001	2059	05 9804
10 11	14 40	.8304	6 0 11.730	19 2 20.05	4	9012	1522	04 5308
10 11	14 40	8.8303	5 59 40.135	19 51 57.74	4	9012	1522	06 5309
10 11	23 1	56.2491	5 38 3.867	27 36 10.78	4	9006	8894	03 5834
10 11	23 2	36.2507	5 34 30.566	31 44 24.99	4	9006	8894	08 5534
10 12	4 36	50.5775	5 40 30.133	32 36 48.00	4	9004	891	02 8856
10 12	4 37	22.5777	5 37 42.155	35 55 47.72	4	9004	891	06 8857
10 12	7 23	39.0278	8 31 22.073	34 40 36.02	4	9010	1198	04 5390
10 12	7 24	11.0299	8 34 50.332	36 49 44.18	4	9010	1198	08 5391
10 12	10 9	27.5879	7 34 8.568	36 51 47.75	4	9001	2078	05 9805
10 12	10 9	35.5880	7 34 39.760	37 35 16.75	4	9001	2078	06 9806
10 12	12 51	54.2635	8 15 36.708	29 14 15.61	4	9012	1534	06 5310
10 12	12 52	2.2637	8 16 6.202	29 49 16.39	4	9012	1534	07 5311
10 12	15 25	8.9161	5 7 54.413	-28 19 55.14	4	9012	1543	02 5312
10 12	15 25	56.9160	5 4 57.155	-24 53 28.19	4	9012	1543	08 5313
10 12	18 26	54.0812	6 24 27.261	33 2 57.94	4	9005	9000	04 4462
10 12	18 27	58.0825	6 22 38.224	39 38 32.58	4	9005	9000	08 4463
10 12	19 12	24.1252	15 24 6.717	41 21 14.51	4	9004	895	03 8858
10 12	19 13	4.1257	15 29 19.909	38 27 21.78	4	9004	895	08 8859

Y	M	D	TIME (A-1)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	ORS.NO.
			H	M	S		H	M	S	D	M	S			
1963	10	12	23	57	18.7767	1	7	0	50.750	32	4	18.19	9008	4552	5696
	10	12	23	57	22.7770	1	7	0	52.932	32	27	44.35	9008	4552	5697
	10	13	2	48	33.8635	1	8	12	28.565	40	47	45.06	9004	903	8860
	10	13	2	48	57.8637	1	8	15	46.408	42	41	10.31	9004	903	8861
	10	13	5	25	27.3430	1	4	50	31.936	0	54	32.18	9004	915	8862
	10	13	5	25	59.3427	1	4	47	38.753	3	31	5.97	9004	915	8863
	10	13	8	7	1.9945	1	7	11	33.644	13	24	32.56	9009	9233	5433
	10	13	8	7	41.9948	1	7	10	27.942	17	10	39.64	9009	9233	5434
	10	13	11	1	54.1422	1	6	8	20.504	32	49	43.68	9001	2094	9809
	10	13	22	5	26.6136	1	7	4	6.332	32	31	45.61	9006	8918	5535
	10	13	22	5	38.6139	1	7	4	15.087	33	42	4.75	9006	8918	5536
	10	14	0	49	50.4461	1	5	29	26.713	24	58	46.95	9008	4572	5698
	10	14	0	49	58.4464	1	5	28	41.909	25	48	1.84	9008	4572	5699
	10	14	1	39	57.5911	1	15	26	53.676	41	7	59.75	9001	2106	9807
	10	14	1	40	1.5912	1	15	27	23.506	40	50	26.41	9001	2106	9808
	10	14	8	58	9.9642	1	5	49	49.358	-3	19	58.60	9009	9254	5435
	10	14	8	58	41.9641	1	5	47	31.666	-0	8	28.21	9009	9254	5436
	10	14	9	8	4.9461	1	6	25	47.687	30	15	7.05	9010	1227	5392
	10	14	9	8	12.9464	1	6	25	28.653	31	4	26.73	9010	1227	5393
	10	14	14	36	.6249	1	5	54	9.614	16	56	20.67	9012	1575	5314
	10	14	14	36	4.6250	1	5	53	52.368	17	21	12.79	9012	1575	5315
	10	14	22	57	53.9985	1	5	32	37.971	25	12	45.04	9006	8942	5498
	10	14	22	58	5.9987	1	5	31	31.717	26	26	51.06	9006	8942	5499
	10	14	23	1	40.2818	1	8	6	13.093	36	24	8.23	9008	4589	5700
	10	14	23	1	48.2821	1	8	6	56.977	37	2	51.42	9008	4589	5701
	10	14	23	52	43.7826	1	15	39	14.407	27	8	28.73	9010	1232	5394
	10	14	23	52	59.7837	1	15	40	12.448	26	0	19.59	9010	1232	5395
	10	15	6	48	46.7081	1	8	34	38.107	-21	20	4.23	9011	979	4975
	10	15	6	48	54.7079	1	8	33	37.579	-20	50	3.55	9011	979	4644
	10	15	7	11	10.0336	1	8	5	4.394	19	18	49.82	9009	9260	9819
	10	15	7	11	22.0341	1	8	5	15.199	20	13	47.14	9009	9260	9820
	10	15	7	19	50.7512	1	8	31	13.174	34	54	55.97	9010	1236	5396
	10	15	7	19	58.7512	1	8	32	3.090	35	28	3.28	9010	1236	5397
	10	15	10	0	35.9039	1	4	54	12.847	20	21	19.83	9010	1241	5398
	10	15	10	1	7.9042	1	4	50	30.995	23	28	43.14	9010	1241	5399
	10	15	10	5	27.7515	1	7	29	1.630	35	47	48.19	9001	2136	9811
	10	15	10	5	35.7517	1	7	29	27.195	36	32	12.57	9001	2136	9812
	10	15	12	48	7.7653	1	8	14	34.896	29	28	4.20	9012	1588	5316
	10	15	12	48	39.7655	1	8	16	33.805	31	51	50.75	9012	1588	5317
	10	15	15	24	15.0698	1	4	52	9.082	-15	39	31.86	9012	1600	5318
	10	15	15	24	47.0696	1	4	49	55.153	-13	3	53.23	9012	1600	5319
	10	15	19	8	11.8992	1	15	19	23.548	42	53	13.83	9004	963	8864
	10	15	19	8	35.8992	1	15	22	55.756	41	11	56.57	9004	963	8865
	10	16	8	3	36.6085	1	7	5	48.365	15	1	17.33	9009	9276	9821
	10	16	8	4	8.6090	1	7	4	46.811	18	6	3.49	9009	9276	9822

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.	OBS. NO.
1963 10 16	10 57 35.9250	1	6 3 15.325	29 0 9.29	9001	2154	11 6421
10 16	10 57 51.9250	1	6 2 15.448	30 39 52.09	9001	2154	13 6422
10 16	16 34 29.9727	1	8 24 13.455	36 20 9.13	9005	9018	05 4464
10 16	16 34 37.9726	1	8 25 13.168	36 54 57.41	9005	9018	06 4465
10 16	19 16 32.5130	1	4 47 1.555	27 52 44.49	9005	9022	05 4466
10 16	19 17 4.5133	1	4 42 30.270	30 57 20.89	9005	9022	09 4467
10 17	8 43 43.4633	1	6 47 49.998	-18 9 28.83	9007	626	03 4404
10 17	8 44 7.4625	1	6 45 34.803	-15 48 53.71	9007	626	06 4405
10 17	14 31 5.9446	1	5 52 17.623	9 13 55.60	9012	1618	03 5802
10 17	14 31 29.9446	1	5 50 33.304	11 40 32.84	9012	1618	06 5321
10 17	22 52 57.6837	1	5 32 27.010	17 18 55.08	9006	8963	05 5500
10 17	22 53 21.6841	1	5 30 20.350	19 44 20.36	9006	8963	08 5501
10 18	1 33 58.9009	1	4 39 33.094	-9 40 9.25	9008	4657	02 5702
10 18	1 34 22.9010	1	4 37 42.133	-7 51 16.66	9008	4657	05 5703
10 18	1 50 11.2566	1	9 1 56.807	45 41 51.97	9004	1014	06 8866
10 18	1 50 19.2566	1	9 3 34.544	46 11 48.96	9004	1014	07 8867
10 18	4 29 47.7465	1	5 24 14.813	34 11 43.03	9004	1019	05 9363
10 18	4 30 3.7463	1	5 22 24.667	35 49 49.92	9004	1019	07 8869
10 18	6 45 27.5815	1	8 32 25.356	-20 36 16.42	9011	1012	04 4421
10 18	6 45 43.5810	1	8 30 25.249	-19 34 15.25	9011	1012	05 4422
10 18	7 7 28.0677	1	8 3 31.951	19 37 35.01	9009	9296	06 9823
10 18	7 7 32.0679	1	8 3 35.045	19 56 23.37	9009	9296	07 9824
10 18	10 1 19.4947	10	7 23 24.952	33 50 50.63	9001	2174	05 9810
10 18	23 45 13.4776	1	4 24 53.262	5 38 54.58	9006	8986	12 5502
10 18	23 45 29.4777	1	4 23 16.366	6 59 6.27	9006	8986	14 5503
10 18	23 50 40.2948	1	6 48 6.404	37 14 38.99	9008	4672	04 5704
10 18	23 50 48.2949	1	6 48 1.399	38 2 59.03	9008	4672	06 5705
10 19	7 40 4.2438	1	7 45 8.419	-23 35 43.54	9011	1040	06 4423
10 19	7 40 12.2437	1	7 44 3.077	-22 55 25.87	9011	1040	07 4424
10 19	7 59 8.7935	1	7 1 52.207	10 34 30.78	9009	9306	03 9825
10 19	7 59 56.7937	1	6 59 59.643	15 15 24.89	9009	9306	09 9826
10 19	18 32 18.3403	1	11 29 37.719	-72 39 35.28	9003	6572	03 4441
10 19	18 33 6.3388	1	10 53 28.090	-71 56 4.17	9003	6572	06 4969
10 19	21 57 54.7167	1	6 52 1.865	32 21 48.55	9006	8998	07 5504
10 19	21 58 10.7180	1	6 51 52.731	33 58 23.23	9006	8998	09 5505
10 20	0 42 28.7945	1	5 15 28.716	24 25 42.12	9008	4695	03 5706
10 20	0 42 44.7946	1	5 13 43.547	26 2 23.43	9008	4695	07 5707
10 20	3 33 32.1986	1	6 52 49.764	41 21 3.86	9004	1034	05 9044
10 20	3 33 56.1991	1	6 53 7.268	43 46 3.16	9004	1034	08 9045
10 20	8 29 56.7588	1	6 55 19.463	-51 25 35.11	9011	1071	05 4425
10 20	8 30 4.7586	1	6 53 53.970	-50 42 32.43	9011	1071	06 4426
10 20	8 39 55.5191	1	6 41 39.783	-19 17 .16	9007	669	04 4406
10 20	8 40 43.5183	1	6 37 17.343	-14 31 28.99	9007	669	10 4407
10 20	9 0 3.1829	1	6 13 9.233	26 19 47.58	9010	1286	04 4754
10 20	9 0 19.1822	1	6 12 12.709	27 59 27.49	9010	1286	06 4755

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.	OBS.NO.
1963 10 20	9 5 49.0249	1	8 22 1.946	37 45 49.06	4	9001	2184	9813
10 20	9 5 57.0271	1	8 22 56.871	38 22 34.52	4	9001	2184	9814
10 20	11 47 9.2358	1	4 31 16.215	21 45 19.85	4	9001	2191	6828
10 20	11 47 17.2360	1	4 30 12.412	22 29 6.27	4	9001	2191	6829
10 20	22 48 47.9599	1	5 28 34.395	14 12 50.20	4	9006	9019	5506
10 20	22 49 3.9603	1	5 27 8.910	15 47 58.86	4	9006	9019	5507
10 20	22 53 48.7910	1	7 59 24.852	35 27 42.09	4	9008	4709	5708
10 20	22 53 56.7911	1	8 0 1.333	36 8 20.38	4	9008	4709	6300
10 21	1 47 22.4615	1	9 15 26.661	49 52 7.84	4	9004	1054	9046
10 21	1 47 30.4620	1	9 17 23.906	50 21 28.12	4	9004	1054	9047
10 21	4 26 30.3376	1	5 14 8.445	36 15 31.67	4	9004	1062	9048
10 21	4 27 2.3380	1	5 9 45.426	39 28 34.30	4	9004	1062	9049
10 21	6 41 45.3264	1	8 32 51.131	-21 21 3.87	4	9011	1092	4974
10 21	6 41 53.3262	1	8 31 48.654	-20 49 19.42	4	9011	1092	4430
10 21	9 57 25.9466	1	7 18 16.049	33 11 1.52	4	9001	2203	6830
10 21	9 57 33.9463	1	7 18 29.458	33 56 58.39	4	9001	2203	6831
10 21	19 0 40.3453	1	15 18 34.105	42 10 23.99	4	9004	1069	9050
10 21	19 1 4.3456	1	15 22 9.263	40 33 54.10	4	9004	1069	9051
10 21	21 1 30.7595	1	8 0 21.569	33 33 55.32	4	9006	9032	5508
10 21	21 1 40.3037	1	8 1 2.411	34 22 7.89	4	9006	9032	5509
10 21	23 43 23.3101	1	4 9 34.874	14 32 24.42	4	9006	9038	5510
10 21	23 43 42.4733	1	4 7 16.170	16 7 47.58	4	9006	9038	5511
10 21	23 46 .8423	1	6 42 10.226	31 37 57.81	4	9008	4728	5709
10 21	23 46 8.8423	1	6 41 58.672	32 26 56.32	4	9008	4728	5710
10 22	2 36 58.1707	1	8 3 23.520	40 34 37.77	4	9004	1080	9052
10 22	2 37 22.1711	1	8 6 10.295	42 36 37.55	4	9004	1080	9053
10 22	5 19 15.6774	1	4 6 2.123	24 19 22.97	4	9004	1087	9054
10 22	5 19 23.6777	1	4 4 48.172	24 59 31.41	4	9004	1087	9055
10 22	7 55 50.5238	1	6 54 54.271	12 50 4.37	4	9009	9321	9827
10 22	7 56 14.5239	1	6 53 50.546	15 13 9.13	4	9009	9321	9828
10 22	8 3 49.3210	1	7 33 11.723	31 14 28.63	4	9010	1303	4756
10 22	8 3 57.3201	1	7 33 26.617	31 58 49.31	4	9010	1303	4757
10 22	13 32 4.4045	1	7 5 15.758	22 19 32.14	4	9012	1640	5358
10 22	13 32 36.4047	1	7 4 40.873	25 28 11.10	4	9012	1640	5803
10 22	16 28 53.5445	1	8 39 24.944	45 47 16.19	4	9005	9037	4468
10 22	16 29 25.5480	1	8 45 14.890	48 8 21.37	4	9005	9037	4469
10 22	21 53 56.8639	1	6 45 43.956	30 57 45.48	4	9006	9049	5512
10 22	21 54 44.8665	1	6 44 43.876	35 50 44.08	4	9006	9049	5513
10 23	0 40 13.1630	1	4 58 10.358	32 29 29.06	4	9008	4747	5711
10 23	1 29 51.4701	1	15 32 34.829	35 17 43.33	4	9001	2227	6832
10 23	1 29 59.4704	1	15 33 24.950	34 44 57.38	4	9001	2227	6833
10 23	3 28 45.1789	1	6 46 17.435	35 2 50.47	4	9004	1102	9056
10 23	3 29 9.1782	1	6 46 6.950	37 29 9.20	4	9004	1102	9057
10 23	8 35 59.6565	1	6 35 52.009	-21 10 27.09	4	9007	733	4408
10 23	8 36 39.6554	1	6 32 15.822	-17 10 30.06	4	9007	733	4409

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.	OBS. NO.
1963 10 23	8 55 59.3823	1	6 7 17.294	23 56 12.68	9010	1321 03	6302
10 23	8 56 47.3787	1	6 4 1.088	28 55 33.98	9010	1321 09	4758
10 23	11 44 5.3747	1	4 21 39.077	24 31 51.22	9001	2239 06	6834
10 23	11 44 13.3730	1	4 20 29.604	25 14 30.33	9001	2239 07	7669
10 23	14 24 10.3115	1	5 36 18.661	11 30 25.75	9012	1653 02	5360
10 23	14 24 18.3115	1	5 35 38.429	12 19 16.88	9012	1653 04	5361
10 23	17 19 25.2796	1	7 25 24.436	37 7 17.95	9005	9050 05	4470
10 23	17 19 41.2796	1	7 26 11.865	38 38 37.64	9005	9050 06	4471
10 23	22 49 49.1093	1	7 55 16.588	34 33 30.51	9008	4752 03	9815
10 23	22 50 9.1096	1	7 56 37.972	36 17 36.22	9008	4752 08	41
10 24	1 42 5.0735	1	8 56 31.818	44 36 47.42	9004	1120 03	9058
10 24	1 42 13.0735	1	8 58 2.030	45 8 38.93	9004	1120 04	9059
10 24	4 19 38.2254	1	5 28 33.467	16 53 38.38	9004	1126 03	9060
10 24	4 20 10.2252	1	5 25 33.439	20 0 7.48	9004	1126 07	9061
10 24	6 47 24.1097	1	8 23 7.974	- 0 52 23.18	9007	751 05	4410
10 24	6 47 48.1100	1	8 21 43.065	0 44 3.70	9007	751 08	4411
10 24	7 8 1.8410	1	8 26 40.059	33 49 23.79	9010	1329 04	4759
10 24	7 8 9.8400	1	8 27 22.905	34 25 7.17	9010	1329 05	4760
10 24	9 34 52.2687	1	4 30 8.767	-32 36 39.28	9009	9343 05	9829
10 24	9 35 .2685	1	4 29 51.822	-32 3 15.25	9009	9343 07	9830
10 24	9 50 6.4304	1	4 33 11.228	22 3 37.66	9010	1335 04	4761
10 24	9 50 38.4323	1	4 28 58.413	24 59 35.36	9010	1335 08	4762
10 24	18 56 43.3762	1	15 16 47.921	42 33 47.88	9004	1132 06	9062
10 24	18 56 51.3765	1	15 18 3.868	42 2 34.32	9004	1132 07	9063
10 25	7 59 35.0838	1	7 27 52.843	28 38 38.44	9010	1346 03	4763
10 25	7 59 43.0835	1	7 28 1.838	29 23 54.69	9010	1346 04	4764
10 25	13 28 15.5611	1	6 59 26.561	21 46 25.21	9012	1661 05	5437
10 25	13 28 47.5614	1	6 58 36.079	24 58 3.34	9012	1661 09	5438
10 25	21 50 .4571	1	6 39 22.730	29 36 56.31	9006	9077 06	4478
10 25	21 50 32.4588	1	6 38 20.606	32 54 6.78	9006	9077 10	4479
10 25	21 56 7.6235	1	8 57 21.787	44 30 26.98	9008	4781 04	5068
10 25	21 56 31.6255	1	9 1 23.225	46 6 9.80	9008	4781 07	5069
10 26	0 35 .4170	1	5 3 14.356	22 59 46.00	9008	4785 04	5070
10 26	0 35 16.4178	1	5 1 19.340	24 33 48.89	9008	4785 06	5071
10 26	1 25 18.8579	1	15 27 .264	38 13 2.74	9001	2271 09	6835
10 26	6 10 34.6178	1	8 44 44.100	28 20 6.82	9010	1357 08	4766
10 26	8 22 58.6265	1	6 31 59.982	-50 17 42.58	9011	1117 07	4427
10 26	8 23 6.6265	1	6 30 56.075	-49 32 36.02	9011	1117 08	4428
10 26	8 28 2.6168	1	6 3 54.394	-20 8 15.68	9011	1118 03	4431
10 26	8 28 10.6167	1	6 3 22.573	-19 20 42.33	9011	1118 04	4432
10 26	8 30 56.5507	1	6 36 3.840	-29 40 13.43	9007	778 04	4412
10 26	8 31 4.5505	1	6 35 16.438	-28 53 33.51	9007	778 05	4413
10 26	8 33 46.6085	1	5 44 54.531	10 30 23.63	9011	1119 05	4433
10 26	8 33 54.6087	1	5 44 30.896	11 6 54.84	9011	1119 06	4434
10 26	8 48 50.6058	1	6 13 32.691	3 3 44.68	9010	1361 03	3038

DATE			TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	OBS. NO.	
Y	M	D	H	M	S	MS	H	M	S	D	M	S				
1963	10	26	8	48	50.6176	1	7	53	6.188	-	3	22	47.25	9001	2280	03
	10	26	8	48	58.6058	1	6	13	4.379	-	3	49	4.95	9010	1361	04
	10	26	8	48	58.6177	1	7	53	10.014	-	2	52	44.88	9001	2280	04
	10	26	8	49	6.6060	1	6	12	36.041	-	4	34	41.22	9010	1361	05
	10	26	8	49	6.6174	1	7	53	13.102	-	2	22	34.39	9001	2280	05
	10	26	8	49	14.6060	1	6	12	7.830	5	20	34.41	9010	1361	06	
	10	26	8	49	14.6175	1	7	53	18.214	-	1	52	10.24	9001	2280	06
	10	26	8	49	22.6061	1	6	11	39.082	6	6	41.41	9010	1361	07	
	10	26	8	49	22.6176	1	7	53	23.004	-	1	21	37.37	9001	2280	07
	10	26	8	49	30.6062	1	6	11	10.420	6	53	5.54	9010	1361	08	
	10	26	8	49	30.6174	1	7	53	28.042	-	0	50	49.79	9001	2280	08
	10	26	8	49	38.6065	1	6	10	41.416	7	39	45.77	9010	1361	09	
	10	26	8	49	38.6176	1	7	53	33.635	-	0	19	53.97	9001	2280	09
	10	26	8	49	46.6067	1	6	10	12.076	8	26	36.32	9010	1361	10	
	10	26	8	49	46.6175	1	7	53	39.325	0	11	11.66	9001	2280	10	
	10	26	8	53	38.6124	1	5	53	34.623	32	10	21.62	9010	1362	02	
	10	26	8	53	38.6166	1	7	59	29.349	16	32	57.70	9001	2281	02	
	10	26	8	53	46.6125	1	5	52	52.806	32	59	54.02	9010	1362	03	
	10	26	8	53	46.6165	1	7	59	48.829	17	9	18.04	9001	2281	03	
	10	26	8	53	54.6126	1	5	52	10.224	33	49	26.16	9010	1362	04	
	10	26	8	53	54.6164	1	8	0	9.047	17	45	48.40	9001	2281	04	
	10	26	8	54	2.6128	1	5	51	26.811	34	38	48.38	9010	1362	05	
	10	26	8	54	2.6163	1	8	0	29.899	18	22	27.59	9001	2281	05	
	10	26	8	54	10.6131	1	5	50	43.127	35	28	3.54	9010	1362	06	
	10	26	8	54	10.6165	1	8	0	51.249	18	59	11.83	9001	2281	06	
	10	26	8	54	18.6134	1	5	49	57.980	36	17	12.74	9010	1362	07	
	10	26	8	54	18.6168	1	8	1	13.370	19	36	7.36	9001	2281	07	
	10	26	8	56	50.6088	1	5	32	30.116	51	12	37.85	9010	1363	03	
	10	26	8	56	50.6189	1	8	10	35.798	31	36	49.89	9001	2282	02	
	10	26	8	56	58.6091	1	5	31	21.128	51	57	5.31	9010	1363	04	
	10	26	8	56	58.6188	1	8	11	14.437	32	15	27.72	9001	2282	03	
	10	26	8	57	6.6091	1	5	30	10.079	52	41	14.45	9010	1363	05	
	10	26	8	57	6.6189	1	8	11	54.007	32	54	4.21	9001	2282	04	
	10	26	8	57	14.6093	1	5	28	57.165	53	25	5.58	9010	1363	06	
	10	26	8	57	14.6186	1	8	12	34.639	33	32	44.07	9001	2282	05	
	10	26	8	57	22.6095	1	5	27	42.449	54	8	36.60	9010	1363	07	
	10	26	8	57	22.6187	1	8	13	16.463	34	11	24.61	9001	2282	06	
	10	26	8	57	30.6097	1	5	26	25.229	54	51	44.22	9010	1363	08	
	10	26	8	57	30.6187	1	8	13	59.523	34	50	3.32	9001	2282	07	
	10	26	8	57	38.6098	1	5	25	6.092	55	34	32.05	9010	1363	09	
	10	26	8	57	38.6189	1	8	14	43.790	35	28	45.28	9001	2282	08	
	10	26	8	57	46.6101	1	5	23	44.230	56	17	1.34	9010	1363	10	
	10	26	8	57	46.6190	1	8	15	29.085	36	7	23.20	9001	2282	09	
	10	26	8	57	54.6102	1	5	22	20.360	56	59	9.65	9010	1363	11	
	10	26	8	57	54.6189	1	8	16	15.945	36	46	2.91	9001	2282	10	

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.	OBS. NO.
1963 10 26	8 58 34.6207	1	8 20 29.736	39 58 53.09	4	9001	2283	03
10 26	8 58 42.6206	1	8 21 24.894	40 37 16.80	4	9001	2283	04
10 26	9 1 54.6207	1	8 53 36.615	55 22 28.91	4	9001	2284	06
10 26	9 2 2.6209	1	8 55 30.996	55 56 57.20	4	9001	2284	07
10 26	11 36 42.6166	1	8 30 42.644	14 58 41.03	4	9012	1669	02
10 26	11 37 6.6183	1	4 41 29.079	6 45 26.79	4	9001	2289	06
10 26	11 37 14.6183	1	4 40 39.973	7 26 14.20	4	9001	2289	07
10 26	11 38 26.6175	1	8 35 10.088	21 35 37.58	4	9012	1669	15
10 26	11 40 26.6175	1	8 42 29.603	29 19 49.06	4	9012	1670	02
10 26	11 40 26.6199	1	4 17 13.908	24 6 19.80	4	9001	2290	03
10 26	11 40 34.6175	1	8 43 4.808	29 50 46.51	4	9012	1670	03
10 26	11 40 34.6200	1	4 16 3.832	24 48 1.72	4	9001	2290	04
10 26	11 40 42.6175	1	8 43 40.778	30 21 43.14	4	9012	1670	04
10 26	11 40 42.6200	1	4 14 52.540	25 29 37.19	4	9001	2290	05
10 26	11 40 50.6174	1	8 44 17.643	30 52 42.66	4	9012	1670	05
10 26	11 40 50.6198	1	4 13 40.320	26 11 7.28	4	9001	2290	06
10 26	11 40 58.6174	1	8 44 55.128	31 23 33.72	4	9012	1670	06
10 26	11 40 58.6200	1	4 12 26.606	26 52 32.09	4	9001	2290	07
10 26	11 41 6.6175	1	8 45 33.924	31 54 21.92	4	9012	1670	07
10 26	11 41 6.6198	1	4 11 12.060	27 33 47.59	4	9001	2290	08
10 26	11 41 22.6179	1	8 46 53.586	32 56 5.15	4	9012	1670	09
10 26	11 41 22.6198	1	4 8 38.906	28 56 3.63	4	9001	2290	10
10 26	11 41 30.6181	1	8 47 34.626	33 26 52.55	4	9012	1670	10
10 26	11 41 30.6196	1	4 7 20.523	29 36 59.25	4	9001	2290	11
10 26	11 41 38.6183	1	8 48 16.691	33 57 37.37	4	9012	1670	11
10 26	11 41 38.6195	1	4 6 1.102	30 17 48.45	4	9001	2290	12
10 26	11 46 18.6197	1	9 25 38.102	50 56 47.75	4	9012	1671	05
10 26	11 46 18.6230	1	3 1 19.073	51 26 32.55	4	9001	2291	03
10 26	11 46 26.6196	1	9 27 11.284	51 23 34.81	4	9012	1671	06
10 26	11 46 26.6231	1	2 58 47.702	51 56 31.84	4	9001	2291	04
10 26	11 46 34.6195	1	9 28 45.576	51 49 53.38	4	9012	1671	07
10 26	11 46 34.6231	1	2 56 13.436	52 26 2.29	4	9001	2291	05
10 26	11 46 42.6196	1	9 30 22.672	52 16 15.45	4	9012	1671	08
10 26	11 46 42.6232	1	2 53 36.325	52 55 6.13	4	9001	2291	06
10 26	11 46 50.6196	1	9 32 1.657	52 42 16.29	4	9012	1671	09
10 26	11 46 50.6234	1	2 50 56.444	53 23 44.38	4	9001	2291	07
10 26	11 47 14.6200	1	9 37 11.782	53 59 2.31	4	9012	1671	12
10 26	11 47 14.6234	1	2 42 39.510	54 46 45.47	4	9001	2291	10
10 26	11 47 22.6202	1	9 39 .012	54 24 12.62	4	9012	1671	13
10 26	11 47 22.6233	1	2 39 47.624	55 13 32.56	4	9001	2291	11
10 26	14 21 17.2031	1	5 25 6.512	16 6 9.57	4	9012	1673	03
10 26	14 21 49.2029	1	5 22 2.748	19 20 31.27	4	9012	1673	07
10 26	22 38 18.6234	1	7 41 29.253	- 3 13 7.19	4	9008	4798	04
10 26	22 38 26.6234	1	7 41 28.076	- 2 39 21.12	4	9008	4798	06
10 26	22 41 38.6201	1	7 42 37.899	11 58 34.59	4	9008	4799	03

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.	ORS.NO.
1963 10 26	22	42	14.6202	1	7	43	15.787	14	56	29.70	9008	4799	5074
10 26	22	48	34.6243	1	8	4	3.217	48	4	41.82	9008	4800	5075
10 26	22	48	42.6242	1	8	4	56.762	48	45	42.46	9008	4800	5076
10 27	1	29	58.6213	1	3	47	11.568	22	48	52.54	9008	4805	5077
10 27	1	30	10.6212	1	3	45	28.604	23	43	56.48	9008	4805	5078
10 27	1	34	34.6262	1	2	57	2.599	42	11	1.93	9008	4806	5079
10 27	1	34	58.6269	1	2	51	24.305	43	37	56.04	9008	4806	5080
10 27	6	42	34.6285	1	8	27	21.994	-5	43	8.26	9007	784	4414
10 27	6	42	50.6283	1	8	26	16.002	-4	37	45.14	9007	784	4415
10 27	6	45	14.6232	1	8	15	23.813	-28	22	40.40	9009	9347	9831
10 27	6	45	22.6228	1	8	17	8.677	5	48	56.31	9007	785	4416
10 27	6	45	30.6224	1	8	14	28.938	-27	27	52.38	9009	9347	9832
10 27	6	45	30.6226	1	8	16	43.697	6	21	53.39	9007	785	4417
10 27	6	46	22.6232	1	8	11	41.134	-24	24	10.83	9009	9347	42
10 27	6	50	10.6239	1	8	2	15.138	-9	14	53.27	9009	9348	9986
10 27	6	50	30.6239	1	8	1	38.032	-7	47	.02	9009	9348	9987
10 27	6	51	10.6242	1	8	0	29.871	-4	47	46.86	9009	9348	9988
10 27	6	55	6.6034	1	8	5	42.257	-4	49	38.16	9010	1372	07
10 27	6	55	6.6264	1	7	56	34.886	14	11	1.40	9009	9349	15
10 27	6	55	14.6034	1	8	5	43.751	-4	20	12.20	9010	1372	08
10 27	6	55	14.6269	1	7	56	32.155	14	51	18.80	9009	9349	17
10 27	6	55	30.6035	1	8	5	47.715	-3	20	51.76	9010	1372	10
10 27	6	55	30.6269	1	7	56	28.095	16	12	6.53	9009	9349	21
10 27	6	55	38.6036	1	8	5	50.289	-2	50	54.16	9010	1372	11
10 27	6	55	38.6268	1	7	56	26.635	16	52	32.50	9009	9349	23
10 27	6	55	46.6035	1	8	5	53.023	-2	20	50.33	9010	1372	12
10 27	6	55	46.6269	1	7	56	25.571	17	33	2.44	9009	9349	25
10 27	7	4	6.7438	1	8	24	42.110	33	28	53.38	9010	1373	03
10 27	7	4	30.7441	1	8	26	46.459	35	18	42.47	9010	1373	06
10 27	9	35	14.5980	1	5	23	37.792	-31	51	22.04	9010	1376	04
10 27	9	35	38.5979	1	5	22	15.515	-30	22	25.09	9010	1376	07
10 27	9	38	42.6033	1	5	10	50.579	-17	52	22.06	9010	1377	06
10 27	9	38	42.6286	1	4	4	2.165	2	14	35.14	9009	9353	08
10 27	9	38	50.6034	1	5	10	18.171	-17	16	53.66	9010	1377	07
10 27	9	38	50.6285	1	4	3	28.653	2	52	50.50	9009	9353	10
10 27	9	38	58.6032	1	5	9	45.268	-16	41	12.22	9010	1377	08
10 27	9	38	58.6282	1	4	2	54.982	3	31	1.82	9009	9353	12
10 27	9	39	6.6033	1	5	9	12.389	-16	5	13.98	9010	1377	09
10 27	9	39	6.6291	1	4	2	20.503	4	9	14.52	9009	9353	14
10 27	9	40	42.6178	1	7	13	14.860	-13	42	6.15	9001	2304	01
10 27	9	40	42.6294	1	3	54	55.134	11	42	11.71	9009	9354	06
10 27	9	40	50.6026	1	5	1	36.639	-7	56	18.02	9010	1378	01
10 27	9	40	50.6174	1	7	13	3.326	-13	10	17.51	9001	2304	02
10 27	9	40	50.6296	1	3	54	14.835	12	19	20.14	9009	9354	08
10 27	9	40	58.6026	1	5	0	59.086	-7	17	3.77	9010	1378	02

DATE	TIME (A-1)	RMS	R.A. (1950.0)	DECL. (1950.0)	RMS	STATION	FRAME NO.	OBS. NO.
Y M D	H M S	MS	H M S	D M S	S			
1963 10 27	9 40 58.6171	1	7 12 52.077	-12 38 16.27	4	9001	2304 03	8468
10 27	9 40 58.6294	1	3 53 34.238	12 56 20.83	4	9009	9354 10	9558
10 27	9 41 6.6028	1	5 0 21.459	- 6 37 38.50	4	9010	1378 03	9542
10 27	9 41 6.6170	1	7 12 40.805	-12 6 .26	4	9001	2304 04	8469
10 27	9 41 6.6290	1	3 52 53.167	13 33 18.00	4	9009	9354 12	9559
10 27	9 41 14.6028	1	4 59 43.289	- 5 58 2.02	4	9010	1378 04	9543
10 27	9 41 14.6172	1	7 12 29.851	-11 33 22.51	4	9001	2304 05	8470
10 27	9 41 14.6297	1	3 52 11.589	14 10 5.26	4	9009	9354 14	9560
10 27	9 41 22.6029	1	4 59 4.862	- 5 18 11.58	4	9010	1378 05	9544
10 27	9 41 22.6172	1	7 12 19.155	-11 0 34.34	4	9001	2304 06	8471
10 27	9 41 22.6295	1	3 51 29.568	14 46 44.26	4	9009	9354 16	9561
10 27	9 41 30.6029	1	4 58 25.565	- 4 38 5.77	4	9010	1378 06	9545
10 27	9 41 30.6175	1	7 12 8.436	-10 27 24.72	4	9001	2304 07	8472
10 27	9 41 30.6289	1	3 50 47.050	15 23 15.20	4	9009	9354 18	9562
10 27	9 41 38.6173	1	7 11 57.947	- 9 54 2.76	4	9001	2304 08	8473
10 27	9 41 38.6295	1	3 50 3.937	15 59 41.44	4	9009	9354 20	9563
10 27	9 46 34.6110	1	4 27 8.214	22 19 6.20	4	9010	1379 05	311
10 27	9 46 34.6196	1	7 7 31.826	13 59 17.40	4	9001	2305 04	9551
10 27	9 46 42.6113	1	4 26 4.843	23 2 10.87	4	9010	1379 06	312
10 27	9 46 42.6197	1	7 7 28.262	14 43 11.71	4	9001	2305 05	9552
10 27	9 46 50.6113	1	4 25 .685	23 45 6.62	4	9010	1379 07	313
10 27	9 46 50.6195	1	7 7 25.255	15 27 20.93	4	9001	2305 06	9553
10 27	9 46 58.6115	1	4 23 55.178	24 28 11.14	4	9010	1379 08	314
10 27	9 46 58.6196	1	7 7 21.922	16 11 38.96	4	9001	2305 07	9554
10 27	9 47 6.6117	1	4 22 49.259	25 10 43.09	4	9010	1379 09	315
10 27	9 47 6.6197	1	7 7 19.077	16 56 13.74	4	9001	2305 08	9555
10 27	9 47 14.6117	1	4 21 42.212	25 53 21.74	4	9010	1379 10	316
10 27	9 47 14.6196	1	7 7 16.528	17 41 2.00	4	9001	2305 09	17
10 27	9 51 14.6167	1	7 8 19.020	41 7 23.57	4	9001	2306 04	4444
10 27	9 51 30.6164	1	7 8 36.042	42 42 14.53	4	9001	2306 06	4445
10 27	9 51 54.6155	1	3 28 23.026	48 23 8.69	4	9010	1380 10	4443
10 27	9 52 2.6170	1	7 9 17.955	45 50 57.83	4	9001	2306 10	4446
10 27	12 25 38.6122	1	8 0 47.938	- 4 27 29.41	4	9012	1688 01	8807
10 27	12 25 38.6261	1	4 19 3.914	-16 14 25.69	4	9001	2312 04	8474
10 27	12 25 46.6122	1	8 0 43.089	- 3 53 50.68	4	9012	1688 02	8808
10 27	12 25 46.6260	1	4 18 35.191	-15 45 28.98	4	9001	2312 05	8475
10 27	12 25 54.6123	1	8 0 38.842	- 3 20 6.13	4	9012	1688 03	8809
10 27	12 25 54.6260	1	4 18 6.348	-15 16 20.21	4	9001	2312 06	8476
10 27	12 26 2.6125	1	8 0 34.989	- 2 46 6.51	4	9012	1688 04	8810
10 27	12 26 2.6258	1	4 17 36.989	-14 47 6.72	4	9001	2312 07	8477
10 27	12 26 10.6125	1	8 0 31.424	- 2 11 55.79	4	9012	1688 05	8811
10 27	12 26 10.6260	1	4 17 7.515	-14 17 45.08	4	9001	2312 08	8478
10 27	12 32 45.0893	1	8 5 57.950	28 55 .15	4	9012	1689 06	5716
10 27	12 33 1.0898	1	8 6 38.248	30 14 32.76	4	9012	1689 08	5717
10 27	15 14 22.3130	1	4 12 44.020	8 13 40.29	4	9012	1695 03	5718

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.	OBS. NO.
1963	10 27	15 14	54.3130	1	4 9 37.335			10 52 31.41	4		9012	1695	5719
	10 27	15 22	58.6199	1	2 56 34.440			46 0 14.43	4		9012	1696	5720
	10 27	15 23	30.6198	1	2 49 18.042			47 46 22.54	4		9012	1696	5721
	10 27	15 25	22.6169	1	2 20 34.100			53 16 11.73	4		9012	1697	5722
	10 27	15 25	38.6169	1	2 16 1.580			53 57 52.49	4		9012	1697	5723
	10 27	21 3	2.1032	1	10 9 34.334			75 0 2.27	4		9006	9098	4480
	10 27	21 3	18.1040	1	10 22 11.574			75 43 19.42	4		9006	9098	4481
	10 27	23 28	18.6404	1	4 43 9.285			-20 35 6.89	4		9006	9103	4482
	10 27	23 28	50.6416	1	4 41 10.722			-18 28 44.42	4		9006	9103	4483
	10 27	23 34	58.6096	1	4 11 11.454			8 40 49.36	4		9006	9104	4484
	10 27	23 35	30.6100	1	4 7 44.410			11 12 23.26	4		9006	9104	4485
	10 27	23 37	22.6228	1	3 54 9.928			20 1 50.93	4		9006	9105	6296
	10 27	23 37	54.6236	1	3 49 48.306			22 31 1.57	4		9006	9105	4486
	10 27	23 40	34.6269	1	3 23 59.346			34 23 7.99	4		9006	9106	4487
	10 27	23 41	6.6277	1	3 17 53.719			36 35 59.02	4		9006	9106	4488
	10 27	23 45	38.6349	1	2 9 19.291			52 11 31.88	4		9006	9107	4489
	10 27	23 46	26.6351	1	1 53 39.539			54 13 36.17	4		9006	9107	4490
	10 28	7 37	22.6117	1	6 46 51.745			16 23 57.59	4		9011	1137	8251
	10 28	7 37	22.6261	1	7 25 2.247			-41 54 1.96	4		9009	9361	8244
	10 28	7 37	30.6118	1	6 46 20.601			16 57 56.69	4		9011	1137	8252
	10 28	7 37	30.6261	1	7 24 20.428			-41 26 6.92	4		9009	9361	8245
	10 28	7 37	38.6116	1	6 45 49.683			17 31 36.71	4		9011	1137	9333
	10 28	7 37	38.6257	1	7 23 39.172			-40 58 2.18	4		9009	9361	8246
	10 28	7 37	46.6116	1	6 45 18.913			18 5 8.22	4		9011	1137	8254
	10 28	7 37	46.6251	1	7 22 58.426			-40 29 40.90	4		9009	9361	8247
	10 28	7 37	54.6116	1	6 44 48.585			18 38 22.64	4		9011	1137	9334
	10 28	7 37	54.6246	1	7 22 17.802			-40 1 .94	4		9009	9361	8248
	10 28	7 38	2.6115	1	6 44 18.334			19 11 25.10	4		9011	1137	8256
	10 28	7 38	2.6262	1	7 21 37.848			-39 32 9.43	4		9009	9361	8249
	10 28	7 38	10.6117	1	6 43 48.042			19 44 22.03	4		9011	1137	8257
	10 28	7 38	10.6258	1	7 20 58.355			-39 3 1.67	4		9009	9361	8250
	10 28	7 40	46.6236	1	7 9 12.888			-28 39 5.75	4		9009	9362	4971
	10 28	7 41	26.6229	1	7 6 29.282			-25 40 56.39	4		9009	9362	4448
	10 28	7 41	46.6116	1	6 31 21.809			33 5 5.33	4		9011	1138	4449
	10 28	7 41	54.6116	1	6 30 55.896			33 31 48.15	4		9011	1138	4450
	10 28	7 46	58.6011	1	7 28 35.728			-15 36 46.96	4		9010	1386	9546
	10 28	7 46	58.6259	1	6 46 35.750			3 46 54.40	4		9009	9363	8532
	10 28	7 47	6.6011	1	7 28 22.806			-15 4 43.28	4		9010	1386	9547
	10 28	7 47	6.6259	1	6 46 8.979			4 34 50.54	4		9009	9363	8533
	10 28	7 47	14.6011	1	7 28 10.169			-14 32 34.17	4		9010	1386	9548
	10 28	7 47	14.6260	1	6 45 42.445			5 22 47.40	4		9009	9363	8534
	10 28	7 47	22.6013	1	7 27 57.763			-14 0 6.00	4		9010	1386	9549
	10 28	7 47	22.6261	1	6 45 15.807			6 10 54.25	4		9009	9363	8535
	10 28	7 47	30.6013	1	7 27 45.594			-13 27 24.72	4		9010	1386	9550
	10 28	7 47	30.6261	1	6 44 49.236			6 59 10.74	4		9009	9363	8536
	10 28	7 47											

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.	OBS. NO.
1963 10 28	7 48 42.6273	1	6 40 50.379	14 17 29.50	4	9009	9364 02	9989
10 28	7 49 2.6274	1	6 39 43.720	16 19 53.44	4	9009	9364 07	9990
10 28	7 54 58.6072	1	7 22 34.004	23 48 4.46	4	9010	1387 04	317
10 28	7 54 58.6121	1	8 19 .262	10 13 13.86	4	9001	2318 02	8479
10 28	7 55 6.6072	1	7 22 36.225	24 33 42.66	4	9010	1387 05	318
10 28	7 55 6.6302	1	6 16 47.638	50 52 12.44	4	9009	9365 13	303
10 28	7 55 14.6074	1	7 22 39.156	25 19 24.83	4	9010	1387 06	319
10 28	7 55 14.6123	1	8 19 39.535	11 10 8.03	4	9001	2318 03	8480
10 28	7 55 14.6304	1	6 16 9.567	51 31 49.07	4	9009	9365 15	304
10 28	7 55 22.6076	1	7 22 42.445	26 5 11.67	4	9010	1387 07	320
10 28	7 55 22.6304	1	6 15 30.800	52 11 10.54	4	9009	9365 17	305
10 28	7 55 30.6081	1	7 22 46.050	26 51 3.73	4	9010	1387 08	321
10 28	7 55 30.6128	1	8 20 20.644	12 7 19.41	4	9001	2318 04	8481
10 28	7 55 30.6305	1	6 14 51.650	52 50 8.34	4	9009	9365 19	427
10 28	7 58 26.6123	1	8 30 29.753	23 1 57.60	4	9001	2319 01	8241
10 28	7 58 26.6312	1	5 56 31.026	65 49 31.97	4	9009	9366 10	8095
10 28	7 58 42.6123	1	8 31 41.301	24 3 16.99	4	9001	2319 02	8242
10 28	7 58 42.6312	1	5 54 17.603	66 53 9.60	4	9009	9366 14	8096
10 28	7 58 46.6310	1	5 53 42.362	67 8 52.78	4	9009	9366 15	8002
10 28	7 58 50.6312	1	5 53 7.351	67 24 32.23	4	9009	9366 16	8003
10 28	7 58 54.6312	1	5 52 31.102	67 40 7.92	4	9009	9366 17	8004
10 28	7 58 58.6128	1	8 32 56.323	25 4 54.73	4	9001	2319 03	8243
10 28	7 58 58.6176	1	7 27 24.013	46 39 8.06	4	9010	1388 03	322
10 28	7 58 58.6314	1	5 51 54.919	67 55 38.84	4	9009	9366 18	9323
10 28	7 59 2.6315	1	5 51 17.784	68 11 5.53	4	9009	9366 19	8005
10 28	7 59 6.6176	1	7 27 44.205	47 23 33.63	4	9010	1388 04	8006
10 28	7 59 14.6181	1	7 28 5.106	48 7 49.77	4	9010	1388 05	8007
10 28	7 59 22.6185	1	7 28 26.578	48 51 55.52	4	9010	1388 06	8008
10 28	7 59 30.6189	1	7 28 50.137	49 35 48.40	4	9010	1388 07	8009
10 28	8 0 34.6135	1	8 41 39.474	31 17 27.14	4	9001	2320 01	8225
10 28	8 0 34.6307	1	5 33 26.666	73 46 47.42	4	9009	9367 07	307
10 28	8 0 50.6131	1	8 43 20.387	32 19 59.34	4	9001	2320 02	8226
10 28	8 0 50.6313	1	5 29 23.522	74 41 23.90	4	9009	9367 11	308
10 28	8 1 6.6140	1	8 45 5.901	33 22 13.43	4	9001	2320 03	8227
10 28	8 1 6.6312	1	5 24 54.558	75 34 52.42	4	9009	9367 15	309
10 28	8 1 22.6141	1	8 46 56.257	34 24 33.56	4	9001	2320 04	8228
10 28	8 1 22.6314	1	5 19 58.310	76 27 8.52	4	9009	9367 19	310
10 28	8 4 18.6099	1	9 13 22.923	45 35 55.91	4	9001	2321 02	8229
10 28	8 4 18.6241	1	8 5 58.527	73 8 58.12	4	9010	1389 06	8553
10 28	8 4 34.6104	1	9 16 28.267	46 34 28.53	4	9001	2321 03	8230
10 28	8 4 34.6246	1	8 10 57.936	74 15 47.24	4	9010	1389 08	8554
10 28	8 4 50.6113	1	9 19 43.170	47 32 31.00	4	9001	2321 04	9332
10 28	8 4 50.6250	1	8 16 38.304	75 20 58.40	4	9010	1389 10	8555
10 28	10 34 10.6112	1	4 10 17.227	- 9 45 49.61	4	9010	1397 02	8067
10 28	10 34 10.6190	1	6 11 1.298	-17 54 42.62	4	9001	2333 06	8517

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.	OBS. NO.
1963 10 28	10 34 18.6112	1	4 9 45.551	- 9 13 34.40	9010	1397	8068
10 28	10 34 18.6191	1	6 10 35.599	-17 21 8.11	9001	2333	8518
10 28	10 34 26.6113	1	4 9 13.225	- 8 41 7.30	9010	1397	8069
10 28	10 34 26.6191	1	6 10 9.887	-16 47 19.65	9001	2333	8519
10 28	10 34 34.6112	1	4 8 40.471	- 8 8 40.02	9010	1397	8070
10 28	10 34 34.6190	1	6 9 43.988	-16 13 13.81	9001	2333	8520
10 28	10 34 42.6111	1	4 8 7.373	- 7 36 4.76	9010	1397	8071
10 28	10 34 42.6190	1	6 9 18.052	-15 38 49.38	9001	2333	8521
10 28	10 34 50.6110	1	4 7 33.891	- 7 3 20.67	9010	1397	8072
10 28	10 34 50.6189	1	6 8 52.066	-15 4 6.34	9001	2333	8522
10 28	10 43 .6870	1	5 33 39.254	29 19 8.87	9001	2334	6842
10 28	10 43 8.6872	1	5 32 48.370	30 8 16.80	9001	2334	6843
10 28	13 24 44.7456	1	6 52 42.147	22 59 29.74	9012	1698	5724
10 28	13 24 56.7455	1	6 52 17.412	24 12 20.70	9012	1698	5725
10 28	21 42 58.5221	1	6 40 26.115	9 38 14.07	9006	9113	4491
10 28	21 49 46.6258	1	8 37 .901	34 14 25.12	9008	4829	5081
10 28	21 49 54.6259	1	8 37 49.868	34 48 40.24	9008	4829	5082
10 28	21 53 14.6270	1	9 6 20.737	48 41 .05	9008	4830	5836
10 28	21 53 46.6274	1	9 12 45.603	50 46 28.94	9008	4830	5083
10 28	21 54 46.7253	1	5 43 15.669	76 33 32.39	9006	9115	4492
10 29	8 19 46.6232	1	6 18 43.446	-47 50 .67	9011	1155	4435
10 29	8 19 54.6229	1	6 17 53.231	-47 3 33.97	9011	1155	4436
10 29	8 28 50.6311	1	6 19 38.173	-20 31 31.27	9007	814	6297
10 29	8 28 58.6306	1	6 18 58.808	-19 42 36.85	9007	814	4493
10 29	8 30 10.6232	1	6 13 21.924	-12 21 11.52	9007	815	8448
10 29	8 30 10.6269	1	5 53 59.474	-49 6 36.00	9009	9374	9326
10 29	8 30 18.6228	1	6 12 46.163	-11 32 5.91	9007	815	8449
10 29	8 30 18.6266	1	5 53 26.647	-48 38 12.94	9009	9374	13
10 29	8 30 26.6225	1	6 12 10.463	-10 43 6.87	9007	815	8450
10 29	8 30 26.6268	1	5 52 53.929	-48 9 32.87	9009	9374	14
10 29	8 30 34.6108	1	5 39 6.159	12 28 39.36	9011	1156	8462
10 29	8 30 34.6224	1	6 11 35.053	- 9 54 12.38	9007	815	8451
10 29	8 30 34.6260	1	5 52 21.480	-47 40 45.80	9009	9374	7591
10 29	8 30 42.6107	1	5 38 44.599	13 3 56.88	9011	1156	8463
10 29	8 30 42.6219	1	6 10 59.944	- 9 5 15.79	9007	815	8452
10 29	8 30 42.6266	1	5 51 49.445	-47 11 39.79	9009	9374	7592
10 29	8 30 50.6104	1	5 38 22.837	13 38 54.85	9011	1156	8464
10 29	8 30 50.6219	1	6 10 24.872	- 8 16 27.23	9007	815	8453
10 29	8 30 50.6265	1	5 51 17.014	-46 42 12.64	9009	9374	11
10 29	8 30 58.6107	1	5 38 1.216	14 13 41.39	9011	1156	8465
10 29	8 30 58.6216	1	6 9 49.900	- 7 27 42.84	9007	815	8454
10 29	8 30 58.6270	1	5 50 45.021	-46 12 41.32	9009	9374	13
10 29	8 31 6.6215	1	6 9 15.396	- 6 39 7.33	9007	815	8455
10 29	8 31 6.6268	1	5 50 13.223	-45 42 52.88	9009	9374	15
10 29	8 34 42.6269	1	5 36 18.180	-30 39 51.35	9009	9375	9991

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.	OBS. NO.
1963 10 29	8 34 50.6273	1	5 35 47.494	-30 2 33.08	9009	9375	9992
10 29	8 35 50.6265	1	5 31 55.060	-25 13 45.65	9009	9375	9993
10 29	8 35 54.6155	1	5 49 52.811	20 13 9.01	9007	816	4494
10 29	8 36 18.6148	1	5 48 18.133	22 11 5.61	9007	1406	9320
10 29	8 40 42.6086	1	6 23 2.795	-19 26 34.03	9010		
10 29	8 40 42.6279	1	5 11 10.627	1 26 58.00	9009	9376	8219
10 29	8 40 50.6085	1	6 22 36.310	-18 51 23.93	9010	1406	8079
10 29	8 40 50.6279	1	5 10 32.077	2 13 52.19	9009	9376	8220
10 29	8 40 58.6087	1	6 22 9.827	-18 15 57.81	9010	1406	8080
10 29	8 40 58.6275	1	5 9 53.353	3 0 43.15	9009	9376	8221
10 29	8 41 6.6087	1	6 21 43.631	-17 40 14.31	9010	1406	8081
10 29	8 41 6.6110	1	5 28 6.926	42 15 23.96	9007	817	7582
10 29	8 41 6.6281	1	5 9 14.168	3 47 40.28	9009	9376	8222
10 29	8 41 14.6090	1	6 21 17.032	-17 4 13.19	9010	1406	8082
10 29	8 41 14.6107	1	5 27 29.708	42 43 43.25	9007	817	7583
10 29	8 41 22.6089	1	6 20 50.736	-16 27 54.81	9010	1406	8083
10 29	8 41 22.6106	1	5 26 52.237	43 11 51.15	9007	817	7584
10 29	8 41 22.6277	1	5 7 55.272	5 21 37.04	9009	9376	8223
10 29	8 41 30.6090	1	6 20 23.911	-15 51 13.71	9010	1406	8084
10 29	8 41 30.6106	1	5 26 14.495	43 39 46.76	9007	817	7585
10 29	8 41 30.6282	1	5 7 15.065	6 8 38.85	9009	9376	8224
10 29	8 41 38.6091	1	6 19 57.428	-15 14 16.73	9010	1406	8085
10 29	8 41 38.6106	1	5 25 36.489	44 7 25.01	9007	817	7586
10 29	8 41 46.6091	1	6 19 30.598	-14 36 58.57	9010	1406	8086
10 29	8 41 46.6107	1	5 24 58.253	44 34 55.66	9007	817	7587
10 29	8 41 54.6092	1	6 19 3.870	-13 59 22.66	9010	1406	8087
10 29	8 41 54.6103	1	5 24 19.529	45 2 2.97	9007	817	7588
10 29	8 42 2.6098	1	6 18 37.145	-13 21 28.77	9010	1406	8088
10 29	8 42 2.6102	1	5 23 40.555	45 29 1.10	9007	817	9325
10 29	8 42 10.6094	1	6 18 10.076	-12 43 13.49	9010	1406	8089
10 29	8 42 10.6103	1	5 23 1.226	45 55 45.54	9007	817	7590
10 29	8 43 54.6086	1	6 12 10.756	-3 56 52.33	9010	1407	9531
10 29	8 43 54.6209	1	7 52 24.635	-8 10 53.60	9001	2329	7790
10 29	8 43 54.6298	1	4 54 2.497	20 4 51.80	9009	9377	8
10 29	8 44 2.6086	1	6 11 42.103	-3 14 13.04	9010	1407	9532
10 29	8 44 2.6207	1	7 52 24.410	-7 42 5.24	9001	2329	7791
10 29	8 44 2.6302	1	4 53 13.953	20 50 8.66	9009	9377	8538
10 29	8 44 10.6086	1	6 11 13.391	-2 31 10.76	9010	1407	9533
10 29	8 44 10.6205	1	7 52 24.658	-7 13 5.29	9001	2329	7792
10 29	8 44 10.6302	1	4 52 24.723	21 35 13.94	9009	9377	8539
10 29	8 44 18.6086	1	6 10 44.332	-1 47 52.39	9010	1407	9534
10 29	8 44 18.6205	1	7 52 25.047	-6 43 57.44	9001	2329	7793
10 29	8 44 18.6303	1	4 51 35.053	22 20 7.73	9009	9377	8540
10 29	8 44 26.6085	1	6 10 15.276	-1 4 12.69	9010	1407	9535
10 29	8 44 26.6205	1	7 52 26.066	-6 14 30.54	9001	2329	7794

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.	OBS.NO.
1963 10 29	8 44 26.6302	1	4 50 44.657	23 4 49.61	4	9009	9377	11 8541
10 29	8 44 34.6085	1	6 9 45.925	- 0 20 23.14	4	9010	1407	07 9536
10 29	8 44 34.6207	1	7 52 27.221	- 5 44 56.41	4	9001	2329	06 7795
10 29	8 44 42.6085	1	6 9 16.540	0 23 49.28	4	9010	1407	08 9537
10 29	8 44 42.6207	1	7 52 28.537	- 5 15 13.93	4	9001	2329	07 7796
10 29	8 44 42.6303	1	4 49 2.140	24 33 34.96	4	9009	9377	15 8542
10 29	8 44 50.6085	1	6 8 46.862	1 8 23.21	4	9010	1407	09 9538
10 29	8 44 50.6206	1	7 52 30.316	- 4 45 13.81	4	9001	2329	08 7797
10 29	8 44 50.6304	1	4 48 9.966	25 17 34.31	4	9009	9377	17 8543
10 29	8 44 58.6085	1	6 8 16.990	1 53 10.48	4	9010	1407	10 9539
10 29	8 44 58.6205	1	7 52 32.442	- 4 15 6.05	4	9001	2329	09 7798
10 29	8 44 58.6304	1	4 47 17.230	26 1 22.14	4	9009	9377	19 8544
10 29	8 47 22.6203	1	7 54 8.764	5 20 57.92	4	9001	2330	01 8232
10 29	8 47 22.6310	1	4 29 18.559	38 22 53.20	4	9009	9378	02 8523
10 29	8 47 30.6083	1	5 57 56.803	16 50 3.68	4	9010	1408	06 8456
10 29	8 47 30.6204	1	7 54 17.505	5 54 49.87	4	9001	2330	02 8233
10 29	8 47 30.6308	1	4 28 10.296	39 1 11.19	4	9009	9378	04 8524
10 29	8 47 38.6086	1	5 57 20.561	17 39 6.69	4	9010	1408	07 8457
10 29	8 47 38.6202	1	7 54 26.807	6 28 50.53	4	9001	2330	03 8234
10 29	8 47 38.6313	1	4 27 1.235	39 39 5.42	4	9009	9378	06 8525
10 29	8 47 46.6088	1	5 56 44.104	18 28 13.64	4	9010	1408	08 8458
10 29	8 47 46.6205	1	7 54 36.640	7 3 8.61	4	9001	2330	04 8235
10 29	8 47 46.6313	1	4 25 50.800	40 16 45.84	4	9009	9378	08 8526
10 29	8 47 54.6091	1	5 56 7.172	19 17 33.50	4	9010	1408	09 8459
10 29	8 47 54.6201	1	7 54 46.761	7 37 31.45	4	9001	2330	05 8236
10 29	8 47 54.6312	1	4 24 39.520	40 54 6.24	4	9009	9378	10 8527
10 29	8 48 2.6094	1	5 55 29.559	20 6 57.26	4	9010	1408	10 8460
10 29	8 48 2.6203	1	7 54 57.329	8 12 10.30	4	9001	2330	06 8237
10 29	8 48 2.6314	1	4 23 27.127	41 31 5.21	4	9009	9378	12 8528
10 29	8 48 10.6093	1	5 54 51.779	20 56 22.77	4	9010	1408	11 8461
10 29	8 48 10.6204	1	7 55 8.602	8 47 .66	4	9001	2330	07 8238
10 29	8 48 10.6315	1	4 22 13.668	42 7 44.14	4	9009	9378	14 8529
10 29	8 48 18.6205	1	7 55 20.045	9 21 57.24	4	9001	2330	08 8239
10 29	8 48 18.6316	1	4 20 58.938	42 44 2.25	4	9009	9378	16 8530
10 29	8 48 26.6206	1	7 55 31.955	9 57 4.28	4	9001	2330	09 8240
10 29	8 48 26.6316	1	4 19 43.293	43 19 58.53	4	9009	9378	18 8531
10 29	8 50 50.6124	1	5 40 2.290	37 24 3.25	4	9010	1409	01 8819
10 29	8 50 50.6216	1	8 0 36.501	20 58 55.04	4	9001	2331	01 7799
10 29	8 50 50.6320	1	3 53 4.812	53 8 2.70	4	9009	9379	01 8827
10 29	8 50 58.6125	1	5 39 9.448	38 12 23.21	4	9010	1409	02 8820
10 29	8 50 58.6216	1	8 0 58.987	21 37 5.68	4	9001	2331	02 7800
10 29	8 50 58.6321	1	3 51 21.243	53 37 23.13	4	9009	9379	03 8828
10 29	8 51 6.6127	1	5 38 15.252	39 0 37.06	4	9010	1409	03 8821
10 29	8 51 6.6215	1	8 1 22.328	22 15 23.50	4	9001	2331	03 7801
10 29	8 51 6.6322	1	3 49 35.322	54 6 23.53	4	9009	9379	05 8829

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.	OBS. NO.
			H	M	S	D	M	S			
1963	10 29		8 51	14.6129	1	5 37	20.332	39 48 36.81	9010	1409	04
	10 29		8 51	14.6214	1	8 1	46.286	22 53 49.06	9001	2331	04
	10 29		8 51	14.6321	1	3 47	47.639	54 35 4.72	9009	9379	07
	10 29		8 51	22.6130	1	5 36	24.238	40 36 22.71	9010	1409	05
	10 29		8 51	22.6212	1	8 2	10.940	23 32 17.47	9001	2331	05
	10 29		8 51	22.6321	1	3 45	58.323	55 3 18.96	9009	9379	09
	10 29		8 51	30.6132	1	5 35	26.858	41 23 57.88	9010	1409	06
	10 29		8 51	30.6212	1	8 2	36.345	24 10 56.97	9001	2331	06
	10 29		8 51	30.6322	1	3 44	6.561	55 31 16.04	9009	9379	11
	10 29		8 51	38.6134	1	5 34	28.261	42 11 20.01	9010	1409	07
	10 29		8 51	38.6216	1	8 3	2.473	24 49 41.64	9001	2331	07
	10 29		8 51	46.6139	1	5 33	28.691	42 58 27.87	9010	1409	08
	10 29		8 51	46.6214	1	8 3	29.534	25 28 29.35	9001	2331	08
	10 29		8 51	46.6320	1	3 40	17.517	56 26 4.41	9009	9379	15
	10 29		8 51	54.6140	1	5 32	27.715	43 45 20.41	9010	1409	09
	10 29		8 51	54.6218	1	8 3	57.390	26 7 27.25	9001	2331	09
	10 29		8 51	54.6320	1	3 38	19.793	56 52 55.11	9009	9379	17
	10 29		8 52	2.6142	1	5 31	25.268	44 31 56.88	9010	1409	10
	10 29		8 52	2.6219	1	8 4	25.605	26 46 26.49	9001	2331	10
	10 29		8 52	2.6319	1	3 36	19.886	57 19 26.94	9009	9379	19
	10 29		8 53	30.6208	1	5 18	12.363	52 45 45.16	9010	1410	01
	10 29		8 53	30.6230	1	8 10	39.838	33 59 34.95	9001	2332	02
	10 29		8 53	30.6335	1	3 11	46.395	61 47 37.21	9009	9380	01
	10 29		8 53	38.6211	1	5 16	48.501	53 28 41.16	9010	1410	02
	10 29		8 53	38.6229	1	8 11	19.885	34 39 9.28	9001	2332	03
	10 29		8 53	38.6335	1	3 9	16.760	62 9 50.26	9009	9380	03
	10 29		8 53	46.6213	1	5 15	22.532	54 11 16.21	9010	1410	03
	10 29		8 53	46.6229	1	8 12	1.319	35 18 44.30	9001	2332	04
	10 29		8 53	46.6334	1	3 6	44.755	62 31 42.84	9009	9380	05
	10 29		8 53	54.6215	1	5 13	54.248	54 53 32.22	9010	1410	04
	10 29		8 53	54.6230	1	8 12	43.738	35 58 17.69	9001	2332	05
	10 29		8 53	54.6335	1	3 4	10.109	62 53 11.43	9009	9380	07
	10 29		8 54	2.6217	1	5 12	23.211	55 35 26.50	9010	1410	05
	10 29		8 54	2.6231	1	8 13	27.448	36 37 53.33	9001	2332	06
	10 29		8 54	2.6333	1	3 1	32.055	63 14 14.60	9009	9380	09
	10 29		8 54	10.6219	1	5 10	49.321	56 16 54.68	9010	1410	06
	10 29		8 54	10.6234	1	8 14	12.613	37 17 26.98	9001	2332	07
	10 29		8 54	10.6335	1	2 58	51.963	63 34 57.80	9009	9380	11
	10 29		8 54	18.6221	1	5 9	13.203	56 58 7.47	9010	1410	07
	10 29		8 54	18.6234	1	8 14	58.526	37 57 .12	9001	2332	08
	10 29		8 54	18.6335	1	2 56	8.226	63 55 21.50	9009	9380	13
	10 29		8 54	26.6225	1	5 7	33.800	57 38 50.39	9010	1410	08
	10 29		8 54	26.6236	1	8 15	46.062	38 36 29.70	9001	2332	09
	10 29		8 54	26.6337	1	2 53	21.445	64 15 22.07	9009	9380	15
	10 29		8 55	30.6219	1	8 22	59.999	43 50 35.12	9001	2332	03

DATE Y M D	TIME (A-I)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	OBS. NO.
	H	M	S		H	M	S	D	M	S			
1963 10 29	8	55	30.6235	1	4	52	15.043	62	50	35.03	9010	1411	03
10 29	8	55	38.6219	1	8	24	1.720	44	29	29.96	9001	2339	04
10 29	8	55	38.6237	1	4	50	1.890	63	27	42.73	9010	1411	04
10 29	8	55	46.6220	1	8	25	4.968	45	8	15.80	9001	2339	05
10 29	8	55	46.6239	1	4	47	44.353	64	4	22.73	9010	1411	05
10 29	8	55	54.6220	1	8	26	10.410	45	46	56.61	9001	2339	06
10 29	8	55	54.6240	1	4	45	21.363	64	40	35.85	9010	1411	06
10 29	8	56	2.6220	1	8	27	17.805	46	25	27.16	9001	2339	07
10 29	8	56	2.6242	1	4	42	53.238	65	16	22.57	9010	1411	07
10 29	8	56	10.6222	1	8	28	27.433	47	3	54.95	9001	2339	08
10 29	8	56	10.6243	1	4	40	19.639	65	51	40.78	9010	1411	08
10 29	8	56	18.6222	1	8	29	38.847	47	42	11.92	9001	2339	09
10 29	8	56	18.6247	1	4	37	39.834	66	26	32.66	9010	1411	09
10 29	8	56	26.6224	1	8	30	52.573	48	20	20.38	9001	2339	10
10 29	8	56	26.6249	1	4	34	53.940	67	0	55.24	9010	1411	10
10 29	8	56	34.6228	1	8	32	8.443	48	58	18.14	9001	2339	11
10 29	8	56	34.6252	1	4	32	1.599	67	34	51.05	9010	1411	11
10 29	8	56	42.6231	1	8	33	26.674	49	36	6.63	9001	2339	12
10 29	8	56	42.6254	1	4	29	2.609	68	8	14.64	9010	1411	12
10 29	11	36	58.6215	1	8	44	18.103	30	48	38.47	9012	1702	08
10 29	11	36	58.6220	1	4	11	39.177	24	35	2.37	9001	2343	02
10 29	11	40	34.6241	1	3	31	29.498	41	51	14.55	9001	2344	02
10 29	11	40	50.6242	1	3	27	43.596	43	0	54.29	9001	2344	04
10 29	14	18	12.7379	1	5	14	36.097	19	26	29.22	9012	1707	03
10 29	14	18	52.7380	1	5	10	20.726	23	25	4.94	9012	1707	08
10 29	20	1	22.6288	1	9	8	49.573	48	45	30.84	9006	9133	05
10 29	22	32	14.6131	1	7	41	9.904	-13	0	33.22	9008	4846	02
10 29	22	32	18.5944	1	5	37	9.890	-14	59	20.06	9006	9138	02
10 29	22	32	22.6132	1	7	41	2.897	-12	30	18.38	9008	4846	03
10 29	22	32	30.6138	1	7	40	55.681	-11	59	47.39	9008	4846	04
10 29	22	32	34.5954	1	5	36	5.690	-13	45	53.94	9006	9138	03
10 29	22	32	38.6129	1	7	40	48.878	-11	29	3.30	9008	4846	05
10 29	22	32	46.6133	1	7	40	42.338	-10	58	3.84	9008	4846	06
10 29	22	32	50.5960	1	5	35	.695	-12	31	20.46	9006	9138	04
10 29	22	32	54.6138	1	7	40	36.125	-10	26	52.89	9008	4846	07
10 29	22	33	2.6137	1	7	40	29.987	-9	55	25.23	9008	4846	08
10 29	22	33	6.5965	1	5	33	54.204	-11	15	40.67	9006	9138	05
10 29	22	33	22.5969	1	5	32	46.769	-9	58	47.28	9006	9138	06
10 29	22	39	18.6217	1	7	41	27.688	19	2	5.68	9008	4847	04
10 29	22	39	26.6215	1	7	41	37.842	19	43	56.94	9008	4847	05
10 29	22	39	30.6459	1	4	58	58.514	23	34	24.27	9006	9140	02
10 29	22	39	46.6473	1	4	56	58.428	25	7	11.85	9006	9140	03
10 29	22	41	42.6279	1	7	46	.919	31	53	21.82	9008	4848	04
10 29	22	41	50.6284	1	7	46	22.661	32	36	49.93	9008	4848	05
10 29	22	41	54.6397	1	4	38	15.170	37	14	14.49	9006	9141	02

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.	OBS.NO.
1963 10 29	22 41	58.6282		1	7 46 45.029			33 20 19.19	4		9008	4848	06
10 29	22 42	6.6287		1	7 47 7.949			34 3 52.15	4		9008	4848	07
10 29	22 42	10.6402		1	4 35 30.190			38 41 56.52	4		9006	9141	03
10 29	22 42	14.6286		1	7 47 31.954			34 47 24.94	4		9008	4848	08
10 29	22 42	22.6291		1	7 47 56.875			35 30 55.91	4		9008	4848	09
10 29	22 42	26.6413		1	4 32 38.691			40 8 35.53	4		9006	9141	03
10 29	22 42	30.6293		1	7 48 22.653			36 14 28.35	4		9008	4848	10
10 29	22 42	42.6416		1	4 29 40.503			41 34 7.02	4		9006	9141	05
10 29	22 42	58.6420		1	4 26 33.964			42 58 36.03	4		9006	9141	06
10 29	22 43	14.6424		1	4 23 20.331			44 21 46.22	4		9006	9141	07
10 29	22 48	22.6369		1	8 35 27.349			65 55 25.17	4		9008	4849	02
10 29	22 48	34.6395		1	2 34 41.933			66 12 .97	4		9006	9142	02
10 29	22 48	46.6372		1	8 42 43.586			67 38 37.07	4		9008	4849	05
10 29	22 48	50.6400		1	2 26 4.975			66 55 6.00	4		9006	9142	03
10 30	1 23	46.6248		1	4 4 1.111			10 40 20.61	4		9008	4853	02
10 30	1 24	10.6259		1	4 1 21.369			12 30 41.17	4		9008	4853	05
10 30	1 26	18.6301		1	3 45 17.796			22 13 42.20	4		9008	4854	04
10 30	1 26	58.6310		1	3 39 32.674			25 11 33.21	4		9008	4854	09
10 30	1 29	46.6370		1	3 10 38.373			36 52 57.41	4		9008	4855	02
10 30	6 46	30.6285		1	8 0 6.401			- 9 32 21.71	4		9009	9388	04
10 30	6 47	10.6286		1	7 58 48.566			- 6 31 9.62	4		9009	9388	13
10 30	6 50	22.6280		1	7 54 22.306			9 2 17.88	4		9009	9389	11
10 30	6 50	46.6292		1	7 54 2.099			11 4 39.85	4		9009	9389	17
10 30	6 52	14.6288		1	7 53 14.678			18 39 5.26	4		9009	9390	03
10 30	6 52	34.6306		1	7 53 10.202			20 23 2.05	4		9009	9390	08
10 30	6 55	30.6316		1	7 54 26.358			35 28 20.23	4		9009	9391	04
10 30	6 55	38.6314		1	7 54 35.630			36 8 33.28	4		9009	9391	06
10 30	6 56	38.6317		1	7 56 3.637			41 4 57.53	4		9009	9391	20
10 30	7 0	26.6224		1	8 23 38.035			34 16 48.42	4		9010	1427	04
10 30	7 0	50.6226		1	8 25 40.164			36 9 16.59	4		9010	1427	07
10 30	9 31	14.6066		1	5 20 19.000			-32 51 13.81	4		9010	1432	04
10 30	9 31	46.6067		1	5 18 31.898			-30 54 30.88	4		9010	1432	08
10 30	9 35	54.6034		1	5 2 55.412			-13 50 .44	4		9010	1433	04
10 30	9 36	18.6205		1	7 11 35.372			-16 50 .21	4		9001	2353	09
10 30	9 36	22.6327		1	3 55 58.687			8 18 31.23	4		9009	9396	15
10 30	9 36	26.6036		1	5 0 36.391			-11 21 57.53	4		9010	1433	08
10 30	9 36	26.6202		1	7 11 21.705			-16 19 13.15	4		9001	2353	10
10 30	9 36	30.6329		1	3 55 21.978			8 55 13.35	4		9009	9396	17
10 30	9 39	6.6201		1	7 7 18.635			- 5 6 42.26	4		9001	2354	02
10 30	9 39	14.6098		1	4 46 46.258			2 28 9.04	4		9010	1434	04
10 30	9 39	14.6200		1	7 7 7.897			- 4 30 7.02	4		9001	2354	03
10 30	9 39	38.6338		1	3 38 38.560			22 42 36.20	4		9009	9397	10
10 30	9 39	58.6338		1	3 36 33.885			24 5 34.08	4		9009	9397	15
10 30	9 40	18.6104		1	4 40 35.213			8 2 15.30	4		9010	1434	12
10 30	9 41	22.6338		1	3 27 8.477			29 40 53.72	4		9009	9398	02

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.	OBS.NO.
1963 10 30	9 41	30.6339		1	3 26 10.755			30 11 42.93			9009	9398	149
10 30	9 41	38.6233		1	7 4 18.946			7 19 18.83			9001	2355	6011
10 30	9 44	50.6223		1	7 1 51.266			25 18 33.84			9001	2356	6012
10 30	9 44	58.6222		1	7 1 47.215			26 5 51.42			9001	2356	6013
10 30	9 45	6.6317		1	4 2 55.836			33 5 14.13			9010	1435	6449
10 30	9 45	46.6328		1	3 55 54.679			36 19 38.41			9010	1435	7120
10 30	9 48	34.6576		1	3 19 9.785			48 35 12.59			9010	1436	6451
10 30	9 48	50.6218		1	7 1 50.339			49 15 22.72			9001	2358	6014
10 30	9 48	58.6217		1	7 1 56.221			50 2 18.52			9001	2358	6015
10 30	9 49	6.6584		1	3 10 32.568			50 37 39.84			9010	1436	6452
10 30	12 24	58.6270		1	4 6 7.879			- 4 51 7.08			9001	2363	6016
10 30	12 25	6.6269		1	4 5 31.385			- 4 20 16.36			9001	2363	6017
10 30	12 25	14.6205		1	7 58 38.930			10 20 58.23			9012	1717	5728
10 30	12 25	46.6204		1	7 58 53.262			12 57 5.70			9012	1717	5729
10 30	12 28	26.6201		1	8 1 58.343			26 21 3.96			9012	1718	5730
10 30	12 29	6.6203		1	8 3 19.244			29 44 44.87			9012	1718	5731
10 30	15 17	46.6197		1	3 13 36.664			39 25 22.77			9012	1723	4635
10 30	15 17	54.6199		1	3 12 8.070			39 55 17.23			9012	1723	4636
10 30	15 21	30.6228		1	2 23 59.193			51 29 55.64			9012	1724	4637
10 30	15 21	38.6228		1	2 21 51.916			51 51 15.36			9012	1724	4638
10 30	20 48	19.6233		1	7 45 33.621			24 7 36.41			9006	9153	5087
10 30	20 49	23.6204		1	7 47 49.934			29 50 26.55			9006	9153	5088
10 30	20 50	59.6233		1	7 52 45.486			38 28 58.62			9006	9154	5089
10 30	20 51	31.6253		1	7 54 54.735			41 20 56.57			9006	9154	5090
10 30	20 57	55.6557		1	9 12 16.069			71 41 31.96			9006	9155	5091
10 30	23 24	1.6059		1	4 42 37.647			-22 39 52.25			9006	9159	5092
10 30	23 24	2.6131		1	6 50 47.981			-24 37 13.28			9008	4862	9817
10 30	23 24	33.6061		1	4 40 46.698			-20 37 58.34			9006	9159	5093
10 30	23 24	34.6134		1	6 49 21.635			-22 35 21.27			9008	4862	9818
10 30	23 27	30.6166		1	6 41 40.013			-10 4 4.95			9008	4863	5419
10 30	23 28	1.6179		1	4 26 38.714			- 6 22 22.50			9006	9160	5094
10 30	23 28	2.6172		1	6 40 17.168			- 7 31 29.53			9008	4863	5420
10 30	23 28	17.6173		1	4 25 23.056			- 5 12 28.91			9006	9160	5095
10 30	23 30	58.6180		1	6 32 32.813			7 57 48.57			9008	4864	5421
10 30	23 31	13.6183		1	4 9 24.475			8 3 40.52			9006	9161	5096
10 30	23 31	29.6189		1	4 7 44.240			9 17 36.00			9006	9161	5097
10 30	23 31	30.6190		1	6 31 4.287			11 2 4.74			9008	4864	5422
10 30	23 33	5.6219		1	3 56 46.952			16 41 18.45			9006	9162	5098
10 30	23 33	21.6223		1	3 54 47.176			17 54 50.42			9006	9162	5099
10 30	23 34	26.6267		1	6 22 8.400			28 51 45.82			9008	4865	5423
10 30	23 34	50.6271		1	6 20 45.321			31 21 25.80			9008	4865	5424
10 30	23 35	13.6260		1	3 39 15.011			26 19 45.38			9006	9163	5100
10 30	23 36	1.6252		1	3 31 38.640			29 48 11.94			9006	9163	5101
10 30	23 41	14.6376		1	5 40 34.606			68 3 43.71			9008	4866	5425
10 30	23 41	21.6357		1	2 21 11.608			49 16 10.20			9006	9164	5102

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.	OBS. NO.
1963 10 30	23 41	37.6366	1	50 1 32.74	9006	9164	07
10 30	23 41	46.6389	1	70 36 33.58	9008	4866	06
10 31	2 6	4.086	10	28 53 51.80	9002	5454	05
10 31	2 6	24.4088	10	30 23 58.85	9002	5454	08
10 31	7 33	30.6326	1	- 5 2 25.21	9007	829	02
10 31	7 34	10.6316	1	- 1 25 27.66	9007	829	07
10 31	7 37	22.6210	1	15 23 45.32	9007	830	05
10 31	7 37	30.6208	1	16 3 55.04	9007	830	06
10 31	7 41	46.6183	1	35 30 41.89	9007	831	04
10 31	7 46	18.6063	1	- 2 40 24.25	9010	1445	06
10 31	7 46	50.6065	1	- 0 4 18.24	9010	1445	10
10 31	7 50	46.6355	1	47 38 59.92	9009	9402	03
10 31	7 51	42.6358	1	52 18 43.75	9009	9402	17
10 31	7 56	34.6364	1	72 24 11.66	9009	9403	06
10 31	7 57	18.6365	1	74 50 13.14	9009	9403	17
10 31	10 37	6.6258	1	15 39 33.42	9001	2369	17
10 31	10 38	10.6258	1	22 1 53.10	9001	2369	25
10 31	10 39	46.6258	1	31 43 56.81	9001	2369	37
10 31	13 20	51.8966	1	21 56 34.74	9012	1736	06
10 31	13 20	55.9088	1	22 21 12.95	9012	1736	07
10 31	16 15	45.9191	1	38 40 28.97	9005	9091	04
10 31	16 16	1.9190	1	39 58 38.53	9005	9091	06
10 31	19 6	42.6304	1	60 59 16.27	9005	9095	08
10 31	19 7	14.6289	1	62 11 12.43	9005	9095	10
10 31	21 39	15.6056	1	9 24 32.58	9006	9178	03
10 31	21 39	31.6066	1	10 57 .35	9006	9178	04
10 31	21 42	27.6230	1	28 45 47.38	9006	9179	02
10 31	21 43	47.6292	1	37 3 42.98	9006	9179	07
10 31	21 49	39.6470	1	69 54 2.18	9006	9180	03
10 31	21 50	59.6523	1	75 54 18.05	9006	9180	08
11 1	0 27	36.1705	1	21 51 48.99	9008	4876	05
11 1	0 27	40.1706	1	22 14 25.88	9008	4876	06
11 1	8 34	18.7042	1	-30 34 27.83	9010	1455	09
11 1	8 34	26.7041	1	-30 4 55.53	9010	1455	10
11 1	8 42	50.7113	1	10 44 31.51	9010	1456	12
11 1	8 42	58.7115	1	11 32 17.58	9010	1456	13
11 1	8 54	18.7307	1	71 57 18.32	9010	1457	08
11 1	8 54	26.7308	1	72 23 26.00	9010	1457	09
11 1	11 34	10.7255	1	35 2 50.92	9012	1750	08
11 1	11 34	18.7255	1	35 35 2.45	9012	1750	07
11 1	14 13	34.0020	1	13 21 28.16	9012	1753	03
11 1	14 13	41.9934	1	14 8 44.66	9012	1753	04
11 1	22 31	30.7073	1	- 0 53 58.16	9006	9191	04
11 1	22 31	46.7081	1	0 30 19.03	9006	9191	05
11 1	22 34	42.7265	1	16 43 41.51	9006	9192	05

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.	OBS. NO.
1963 11 1	22 37	1	4 42 37.460	30 20 58.19	9006	9193	2761
11 1	22 42	1	3 30 53.479	56 31 34.53	9006	9194	2764
11 1	6 48	1	8 5 5.659	- 3 34 40.00	9010	1467	8512
11 2	6 48	1	8 5 6.763	- 3 3 22.62	9010	1467	9309
11 2	6 48	1	8 5 9.466	- 2 0 9.76	9010	1467	5
11 2	6 48	1	8 5 11.507	- 1 28 21.43	9010	1467	8515
11 2	6 48	1	8 5 13.787	- 0 56 21.30	9010	1467	8516
11 2	6 56	1	8 21 18.338	34 15 27.66	9010	1468	7615
11 2	6 56	1	8 22 34.133	35 32 15.62	9010	1468	9361
11 2	12 20	1	7 56 15.951	7 37 1.62	9012	1763	9762
11 2	12 22	1	7 56 24.980	12 54 25.41	9012	1763	9763
11 2	12 26	1	8 2 56.159	36 40 34.42	9012	1764	9764
11 2	12 26	1	8 3 30.639	37 42 13.50	9012	1764	9765
11 2	15 17	1	2 23 28.704	50 28 26.16	9012	1767	9766
11 2	15 18	1	2 10 51.139	52 29 28.44	9012	1767	9767
11 2	20 45	1	7 42 53.415	27 5 51.92	9006	9207	2765
11 2	20 45	1	7 44 28.613	31 29 47.01	9006	9207	4852
11 2	20 48	1	7 51 .388	43 13 56.72	9006	9208	2767
11 2	20 48	1	7 53 19.554	46 7 2.75	9006	9208	2768
11 2	20 53	1	8 37 36.272	68 24 34.77	9006	9209	2769
11 2	20 53	1	8 48 37.181	70 38 26.78	9006	9209	3665
11 2	23 36	1	2 35 30.985	45 34 50.09	9006	9215	4853
11 3	7 22	1	7 16 6.300	-21 40 38.83	9011	1188	2457
11 3	7 22	1	7 13 21.349	-19 25 20.16	9011	1188	658
11 3	7 30	1	6 36 25.149	18 48 16.79	9011	1189	7869
11 3	7 30	1	6 35 55.901	19 21 27.17	9011	1189	9325
11 3	7 30	1	6 35 26.334	19 54 23.57	9011	1189	7870
11 3	7 30	1	7 9 17.383	-40 10 53.25	9009	9412	8090
11 3	7 30	1	6 34 57.289	20 27 10.90	9011	1189	9318
11 3	7 30	1	7 8 37.581	-39 40 45.98	9009	9412	9321
11 3	7 31	1	7 8 17.956	-39 25 34.81	9009	9412	9322
11 3	7 31	1	6 34 28.225	20 59 45.97	9011	1189	7872
11 3	7 31	1	7 7 58.355	-39 10 17.59	9009	9412	8092
11 3	7 31	1	7 7 38.605	-38 55 2.87	9009	9412	9323
11 3	7 31	1	6 33 59.675	21 31 59.00	9011	1189	9319
11 3	7 31	1	7 7 19.246	-38 39 37.22	9009	9412	8093
11 3	7 31	1	6 33 30.497	22 4 4.25	9011	1189	7874
11 3	7 31	1	7 6 40.414	-38 8 39.78	9009	9412	9322
11 3	7 31	1	7 6 21.299	-37 53 4.39	9009	9412	9324
11 3	7 31	1	6 33 2.623	22 35 45.46	9011	1189	7875
11 3	7 37	1	7 27 28.035	-24 55 54.71	9010	1478	8073
11 3	7 37	1	6 41 28.148	- 9 36 29.35	9009	9413	11
11 3	7 37	1	6 41 12.745	- 9 13 51.58	9009	9413	9317
11 3	7 37	1	7 27 9.429	-24 27 18.77	9010	1478	8074
11 3	7 37	1	6 40 57.574	- 8 51 14.23	9009	9413	9018

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.	OBS. NO.
1963 11 3	7 37 34.7318	1	6 40 42.194	- 8 28 34.90	9009	9413 04	9318
11 3	7 37 38.7132	1	7 26 50.722	-23 58 22.76	9010	1478 06	8075
11 3	7 37 38.7320	1	6 40 26.799	- 8 5 46.47	9009	9413 05	9019
11 3	7 37 42.7320	1	6 40 11.579	- 7 42 55.40	9009	9413 06	9319
11 3	7 37 46.7128	1	7 26 32.621	-23 29 15.28	9010	1478 07	9320
11 3	7 37 54.7128	1	7 26 14.583	-22 59 53.81	9010	1478 08	9321
11 3	7 38 2.7134	1	7 25 57.101	-22 30 18.25	9010	1478 09	8076
11 3	7 38 2.7325	1	6 38 55.339	- 5 47 44.63	9009	9413 11	9020
11 3	7 38 10.7133	1	7 25 39.215	-22 0 26.74	9010	1478 10	9317
11 3	7 38 10.7319	1	6 38 24.843	- 5 1 15.51	9009	9413 13	9021
11 3	7 42 2.7188	1	7 18 25.371	- 5 39 28.42	9010	1479 02	8038
11 3	7 42 2.7335	1	6 23 23.758	18 34 29.81	9009	9414 05	7539
11 3	7 42 10.7188	1	7 18 13.152	- 5 1 30.14	9010	1479 03	8039
11 3	7 42 10.7332	1	6 22 51.000	19 23 54.46	9009	9414 07	9297
11 3	7 42 18.7188	1	7 18 .789	- 4 23 10.53	9010	1479 04	8040
11 3	7 42 18.7332	1	6 22 18.126	20 13 21.61	9009	9414 09	7541
11 3	7 45 38.7231	1	7 13 49.342	13 4 24.74	9010	1480 05	9012
11 3	7 45 38.7349	1	6 7 4.893	39 53 32.56	9009	9415 04	9
11 3	7 45 46.7232	1	7 13 41.456	13 49 28.25	9010	1480 06	9013
11 3	7 45 46.7355	1	6 6 22.712	40 37 31.37	9009	9415 06	9008
11 3	7 46 2.7237	1	7 13 26.283	15 20 13.36	9010	1480 08	9014
11 3	7 46 2.7357	1	6 4 57.935	42 4 40.94	9009	9415 10	10
11 3	7 46 10.7239	1	7 13 19.176	16 5 52.87	9010	1480 09	9015
11 3	7 46 10.7357	1	6 4 14.322	42 47 52.02	9009	9415 12	9010
11 3	7 46 18.7241	1	7 13 12.134	16 51 44.43	9010	1480 10	9016
11 3	7 46 18.7358	1	6 3 30.413	43 30 38.05	9009	9415 14	9011
11 3	7 53 22.7299	1	8 44 53.337	33 14 51.93	9001	2384 04	428
11 3	7 53 38.7304	1	8 46 38.960	34 20 7.37	9001	2384 06	429
11 3	7 55 6.7282	1	8 57 54.291	40 16 31.93	9001	2385 01	430
11 3	7 55 38.7283	1	9 2 44.770	42 24 22.05	9001	2385 05	431
11 3	10 32 34.7261	1	5 38 20.983	10 30 54.61	9001	2389 03	2447
11 3	13 16 51.4344	1	6 40 16.113	20 1 38.21	9012	1774 03	9768
11 3	13 17 47.4354	1	6 37 24.000	25 47 57.84	9012	1774 10	9769
11 3	16 12 .9017	1	8 16 23.173	39 7 8.36	9005	9113 05	2450
11 3	16 12 16.9018	1	8 18 7.808	40 27 9.65	9005	9113 07	710
11 3	21 36 26.7232	1	6 26 29.655	14 26 56.59	9006	9230 07	3667
11 3	21 36 34.7235	1	6 26 4.083	15 14 56.80	9006	9230 08	2773
11 3	21 38 50.7301	1	6 18 4.008	29 12 32.31	9006	9231 04	2774
11 3	21 38 58.7304	1	6 17 32.513	30 2 31.97	9006	9231 05	4854
11 3	21 40 50.7315	1	6 9 16.250	41 36 29.13	9006	9232 05	9354
11 3	21 41 22.7325	1	6 6 29.769	44 50 23.64	9006	9232 09	6765
11 3	21 45 14.7418	1	5 34 11.745	66 8 14.75	9006	9233 03	446
11 3	21 45 30.7422	1	5 30 29.879	67 25 55.82	9006	9233 05	447
11 4	8 12 20.0631	1	5 59 51.028	-48 28 12.39	9011	1213 06	659
11 4	8 12 52.0623	1	5 57 46.314	-45 19 48.67	9011	1213 10	660

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.	OBS. NO.
1963 11 4	8	21	6.7278	1	6	5	46.532	-23	8	53.43	4	904	1680
11 4	8	38	10.9186	1	7	50	52.792	-2	22	5.30	4	2405	01 433
11 4	8	38	18.9185	1	7	50	54.799	-1	49	37.93	4	2405	02 434
11 4	8	42	58.9185	1	7	55	57.433	19	16	43.56	4	2406	02 435
11 4	8	43	14.9184	1	7	56	32.327	20	35	55.76	4	2406	04 436
11 4	8	46	50.9172	1	8	9	25.615	39	1	46.35	4	2407	04 437
11 4	8	47	6.9174	1	8	10	52.466	40	24	24.75	4	2407	06 438
11 4	11	24	54.9628	1	4	38	20.664	0	35	48.51	4	2411	07 439
11 4	11	29	11.0363	1	4	9	17.476	21	12	21.88	4	2412	05 440
11 4	11	29	35.0412	1	4	5	51.833	23	8	37.13	4	2412	08 441
11 4	14	10	14.0600	1	5	5	28.289	15	3	16.71	4	1788	04 9770
11 4	19	44	34.7244	1	8	17	16.069	10	2	54.22	4	9250	05 821
11 4	19	47	54.7342	1	8	26	16.733	24	14	23.80	4	9251	05 822
11 4	19	49	54.7357	1	8	35	21.728	33	7	34.01	4	9252	01 823
11 4	19	50	18.7366	1	8	37	37.351	34	54	29.16	4	9252	04 824
11 4	19	52	26.7391	1	8	53	2.377	44	17	8.47	4	9253	02 825
11 4	19	53	14.7404	1	9	0	38.041	47	41	24.62	4	9253	08 826
11 4	22	26	42.7226	1	5	20	8.977	-6	40	37.42	4	9257	02 3669
11 4	22	26	50.7226	1	5	19	31.390	-6	1	4.22	4	9257	03 827
11 4	22	35	54.7353	1	4	10	28.781	42	38	38.13	4	9260	02 828
11 4	22	36	2.7356	1	4	8	46.875	43	17	48.35	4	9260	03 829
11 5	9	11	37.3529	1	4	35	8.123	-39	0	11.91	4	917	13 1681
11 5	9	11	45.3525	1	4	35	17.590	-38	18	50.57	4	917	14 1682
11 5	9	27	38.7268	1	7	8	8.335	-22	23	50.41	4	2428	03 442
11 5	9	27	46.7266	1	7	7	50.825	-21	54	56.70	4	2428	04 443
11 5	9	31	46.7295	1	6	59	56.329	-5	21	15.24	4	2429	05 2448
11 5	9	31	54.7293	1	6	59	41.656	-4	43	39.17	4	2429	06 445
11 5	9	40	42.7212	1	6	44	56.482	45	31	58.61	4	2432	04 9100
11 5	9	41	22.7215	1	6	43	44.184	49	32	8.28	4	2432	09 9101
11 5	12	20	42.7269	1	7	54	54.493	25	27	45.90	4	1799	05 9771
11 5	12	20	50.7270	1	7	55	3.368	26	10	23.14	4	1799	06 9772
11 5	12	25	38.7257	1	8	8	25.373	51	0	58.79	4	1800	08 9773
11 5	12	26	2.7263	1	8	10	34.426	52	56	21.42	4	1800	11 9774
11 5	15	3	22.7251	1	4	5	1.751	7	31	39.28	4	1806	03 87
11 5	15	3	46.7254	1	4	2	50.178	9	22	3.10	4	1806	06 88
11 5	15	12	18.7297	1	2	50	28.022	43	42	58.80	4	1808	04 89
11 5	15	13	6.7299	1	2	40	15.197	46	8	42.94	4	1808	10 90
11 5	20	42	26.7308	1	7	40	30.303	33	15	19.82	4	9270	07 2452
11 5	20	42	34.7308	1	7	40	46.424	34	0	25.23	4	9270	08 3670
11 5	20	43	22.7325	1	7	42	36.021	38	30	25.78	4	9271	02 2454
11 5	20	43	30.7326	1	7	42	56.966	39	15	18.52	4	9271	03 833
11 5	20	47	22.7435	1	8	2	20.609	59	57	55.32	4	9272	02 2455
11 5	20	47	38.7440	1	8	4	43.338	61	17	1.10	4	9272	04 835
11 5	23	20	26.7291	1	4	23	43.535	-7	15	16.49	4	9278	03 836
11 5	23	20	42.7293	1	4	22	31.590	-6	8	20.67	4	9278	05 837

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.	OBS.NO.
1963 11 5	23 25	46.7371	1	1	3 53	29.678		15 53	37.42	4	9006	9280	04 8781
11 5	23 26	2.7371	1	1	3 51	33.889		17 3	31.13	4	9006	9280	06 8782
11 5	23 27	30.7370	1	1	3 40	1.961		23 21	54.75	4	9006	9281	01 2456
11 5	23 27	38.7369	1	1	3 38	54.177		23 55	40.39	4	9006	9281	02 839
11 5	23 30	58.7456	1	1	5 42	48.814		52 20	2.76	4	9008	4908	03 4186
11 5	23 31	6.7378	1	1	3 3	42.806		37 34	49.88	4	9006	9282	04 6766
11 5	23 31	46.7475	1	1	5 35	15.578		56 45	6.20	4	9008	4908	09 1498
11 6	7 41	55.1803	1	1	8 18	14.624		3 15	55.36	4	9001	2451	07 9102
11 6	7 42	11.1843	1	1	8 18	38.900		4 12	48.99	4	9001	2451	09 2449
11 6	7 52	18.7355	1	1	9 7	5.793		44 41	16.94	4	9001	2453	02 9104
11 6	7 52	58.7359	1	1	9 14	22.657		47 20	1.08	4	9001	2453	07 9105
11 6	10 20	34.7344	1	1	6 6	24.316		-28 9	53.12	4	9001	2455	03 9106
11 6	10 21	22.7342	1	1	6 3	44.775		-25 13	42.34	4	9001	2455	09 9107
11 6	10 28	42.7302	1	1	5 33	48.907		9 15	28.71	4	9001	2456	07 9108
11 6	10 29	22.7302	1	1	5 30	10.886		13 2	36.47	4	9001	2456	12 9109
11 6	10 32	2.7295	1	1	5 12	35.485		28 40	35.42	4	9001	2457	06 9110
11 6	10 32	18.7293	1	1	5 10	29.098		30 14	52.33	4	9001	2457	08 9111
11 6	13 13	11.3787	1	1	6 33	1.710		20 8	16.64	4	9012	1817	02 91
11 6	13 13	27.3786	1	1	6 32	5.822		21 47	46.35	4	9012	1817	06 92
11 6	18 54	58.7363	1	1	9 8	28.845		36 55	26.35	4	9006	9288	03 3662
11 6	18 59	30.7538	1	1	9 58	20.510		52 4	2.74	4	9006	9289	04 2261
11 6	18 59	46.7542	1	1	10 2	28.183		52 51	30.54	4	9006	9289	05 2262
11 6	21 35	14.7455	1	1	6 10	10.164		29 40	18.54	4	9006	9292	08 2263
11 6	21 35	22.7460	1	1	6 9	32.962		30 30	12.17	4	9006	9292	09 2264
11 6	21 36	2.7485	1	1	6 6	18.688		34 39	14.30	4	9006	9293	03 2265
11 6	21 36	10.7489	1	1	6 5	37.972		35 28	46.30	4	9006	9293	04 4182
11 6	21 39	14.7478	1	1	5 45	17.683		53 41	48.47	4	9006	9294	04 2267
11 6	21 39	22.7478	1	1	5 44	6.738		54 26	16.93	4	9006	9294	05 2268
11 6	21 43	6.7515	1	1	4 46	.969		72 40	13.05	4	9006	9295	07 2269
11 6	21 43	14.7516	1	1	4 42	16.833		73 12	53.25	4	9006	9295	08 2270
11 7	5 57	22.7350	1	1	8 59	40.305		36 42	33.32	4	9010	1503	07 7617
11 7	5 57	30.7352	1	1	9 0	35.650		37 13	49.37	4	9010	1503	08 7618
11 7	8 18	10.7330	1	1	5 55	6.094		-18 38	47.50	4	9007	937	02 1683
11 7	8 18	18.7329	1	1	5 54	36.206		-17 49	39.45	4	9007	937	03 1684
11 7	8 19	46.7316	1	1	5 49	16.096		- 8 50	31.23	4	9007	938	02 1685
11 7	8 20	2.7306	1	1	5 48	19.211		- 7 13	32.29	4	9007	938	04 1686
11 7	8 26	42.7201	1	1	5 24	20.395		27 52	56.61	4	9007	940	03 8061
11 7	8 26	42.7234	1	1	6 18	5.562		-31 49	56.98	4	9010	1506	06 8564
11 7	8 26	50.7201	1	1	5 23	48.961		28 27	24.68	4	9007	940	04 8062
11 7	8 26	50.7234	1	1	6 17	37.740		-31 20	31.57	4	9010	1506	07 8565
11 7	8 26	58.7199	1	1	5 23	17.799		29 1	37.85	4	9007	940	05 8063
11 7	8 26	58.7233	1	1	6 17	9.700		-30 50	50.41	4	9010	1506	08 8566
11 7	8 27	6.7197	1	1	5 22	45.925		29 35	28.09	4	9007	940	06 8064
11 7	8 27	6.7233	1	1	6 16	41.652		-30 20	56.12	4	9010	1506	09 8567
11 7	8 27	14.7197	1	1	5 22	14.116		30 9	4.35	4	9007	940	07 8065

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.	OBS. NO.
1963 11 7	8 27	14.7233	1	6 16 13.356	-29 50 47.42	4	1506	10
11 7	8 27	22.7194	1	5 21 42.211	30 42 24.72	4	940	08
11 7	8 27	22.7233	1	6 15 45.328	-29 20 18.82	4	1506	11
11 7	8 32	18.7316	1	7 50 3.651	-11 2 40.76	4	2471	06
11 7	8 32	34.7314	1	7 49 56.245	-10 3 30.72	4	2471	08
11 7	8 32	42.7227	1	5 55 46.631	-5 10 46.67	4	1507	07
11 7	8 32	58.7228	1	5 54 39.366	-3 45 49.47	4	1507	09
11 7	8 36	50.7340	1	7 50 31.203	7 42 58.03	4	2472	04
11 7	8 37	14.7341	1	7 50 52.584	9 34 30.69	4	2472	07
11 7	8 37	22.7295	1	5 32 27.576	21 44 8.99	4	1508	08
11 7	8 37	30.7295	1	5 31 38.028	22 32 34.80	4	1508	09
11 7	8 42	26.7301	1	8 2 52.604	35 59 3.36	4	2473	04
11 7	8 42	42.7298	1	8 4 1.194	37 23 44.20	4	2473	06
11 7	11 15	38.7373	1	5 0 17.088	-22 46 52.20	4	2474	05
11 7	11 16	10.7370	1	4 58 21.930	-20 47 7.56	4	2474	09
11 7	11 20	18.7396	1	4 40 34.217	-3 41 57.12	4	2475	03
11 7	11 21	6.7396	1	4 36 22.534	-0 5 27.64	4	2475	09
11 7	11 24	58.7353	1	4 11 6.211	18 7 22.15	4	2476	05
11 7	11 25	38.7355	1	4 5 40.909	21 17 13.29	4	2476	10
11 7	22 29	46.7387	1	7 31 24.903	28 27 55.71	4	4919	03
11 7	22 29	54.7391	1	7 31 31.899	29 13 52.30	4	4919	04
11 7	22 31	14.7390	1	7 33 10.770	36 54 52.12	4	4920	03
11 7	22 31	46.7415	1	7 34 7.049	39 58 50.52	4	4920	07
11 8	1 14	26.7499	1	8 7 33.449	8 27 34.64	4	1225	06
11 8	1 14	50.7501	1	8 8 21.139	10 3 50.85	4	1225	09
11 8	1 18	10.7497	1	8 18 20.793	24 19 25.56	4	1226	08
11 8	1 21	14.7520	1	8 35 23.370	38 21 47.10	4	1227	04
11 8	1 21	46.7517	1	8 39 31.638	40 49 11.77	4	1227	08
11 8	4 3	57.1681	1	4 41 27.602	30 22 41.83	4	1230	04
11 8	4 4	5.1679	1	4 40 9.964	31 6 24.39	4	1230	05
11 8	6 27	46.7367	1	8 23 59.676	-7 12 58.74	4	954	03
11 8	6 27	54.7367	1	8 23 21.704	-6 36 36.22	4	954	04
11 8	6 44	2.8753	1	8 4 33.744	10 9 43.13	4	1524	09
11 8	6 44	10.8751	1	8 4 41.782	10 46 58.51	4	1524	10
11 8	6 48	37.4317	1	8 14 25.122	32 38 28.80	4	1525	06
11 8	6 48	45.4320	1	8 14 54.756	33 18 53.05	4	1525	07
11 8	9 7	6.7427	1	4 28 21.644	-42 29 26.01	4	963	04
11 8	9 7	46.7424	1	4 29 38.866	-39 9 7.84	4	963	09
11 8	9 13	54.7375	1	4 31 29.494	-7 17 3.45	4	964	06
11 8	9 24	2.9109	1	4 55 10.318	-17 6 10.10	4	1530	07
11 8	9 24	18.9114	1	4 54 6.791	-15 57 32.35	4	1530	09
11 8	9 30	10.9129	1	4 24 2.925	11 42 57.86	4	1531	08
11 8	9 30	18.9129	1	4 23 9.981	12 22 38.16	4	1531	09
11 8	9 35	54.9497	1	3 33 5.680	38 35 8.74	4	1532	08
11 8	9 36	2.9497	1	3 31 30.163	39 8 16.71	4	1532	09

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.	OBS. NO.
1963 11 8	20 37 38.7343	1	7 34 15.246	27 24 22.42	9006	9314	3663
11 8	20 37 46.7340	1	7 34 22.391	28 9 57.84	9006	9314	2272
11 8	20 38 18.7411	1	8 42 8.959	19 37 43.35	9008	4930	2006
11 8	20 39 6.7354	1	7 36 3.502	35 48 11.91	9006	9315	2273
11 8	20 39 14.7359	1	7 36 16.908	36 34 1.50	9006	9315	2274
11 8	20 39 30.7415	1	8 46 58.181	24 0 43.98	9008	4930	2426
11 8	20 42 26.7469	1	9 3 23.421	34 52 35.04	9008	4931	2008
11 8	20 42 42.7434	1	7 47 19.638	55 50 22.34	9006	9316	2275
11 8	20 42 50.7434	1	7 48 2.653	56 32 27.63	9006	9316	2276
11 8	20 42 58.7476	1	9 7 15.799	36 50 31.00	9008	4931	2009
11 8	23 18 50.7354	1	6 19 10.199	1 33 5.05	9008	4933	2427
11 8	23 19 14.7374	1	4 10 7.805	3 11 4.35	9006	9318	767
11 8	23 19 22.7377	1	4 9 24.397	3 45 13.37	9006	9318	768
11 8	23 19 38.7361	1	6 16 14.921	6 1 23.67	9008	4933	2011
11 8	23 21 22.7363	1	3 57 25.015	12 20 3.63	9006	9319	769
11 8	23 21 30.7366	1	3 56 32.452	12 54 19.38	9006	9319	770
11 8	23 22 18.7430	1	6 5 9.444	21 56 20.22	9008	4934	3672
11 8	23 22 58.7381	1	3 46 7.452	19 8 26.66	9006	9320	771
11 8	23 23 6.7383	1	3 45 6.478	19 41 59.88	9006	9320	772
11 8	23 23 6.7449	1	6 1 14.920	26 53 37.96	9008	4934	2429
11 8	23 26 58.7495	1	5 34 57.352	50 12 32.70	9008	4935	2013
11 8	23 27 6.7411	1	3 7 43.995	35 26 56.07	9006	9321	773
11 8	23 27 14.7410	1	3 6 13.679	35 55 32.76	9006	9321	774
11 8	23 27 38.7506	1	5 28 20.346	53 54 49.79	9008	4935	2014
11 9	7 20 50.7376	1	7 24 48.366	-15 10 17.61	9007	979	8793
11 9	7 20 58.7372	1	7 24 1.673	-14 24 26.36	9007	979	8794
11 9	7 29 54.7238	1	7 21 18.447	-26 15 14.97	9010	1547	8570
11 9	7 29 54.7304	1	6 44 14.988	32 41 32.41	9007	980	9002
11 9	7 30 2.7238	1	7 20 57.612	-25 46 14.25	9010	1547	8571
11 9	7 30 2.7303	1	6 43 45.129	33 15 50.28	9007	980	9003
11 9	7 30 10.7240	1	7 20 36.973	-25 16 54.06	9010	1547	8572
11 9	7 30 10.7305	1	6 43 15.356	33 49 55.84	9007	980	9004
11 9	7 30 18.7238	1	7 20 16.593	-24 47 19.39	9010	1547	8573
11 9	7 30 18.7302	1	6 42 45.542	34 23 49.04	9007	980	9005
11 9	7 30 26.7242	1	7 19 56.015	-24 17 31.90	9010	1547	8574
11 9	7 30 26.7306	1	6 42 15.753	34 57 23.84	9007	980	9006
11 9	7 38 26.7309	1	7 3 17.565	14 9 59.15	9010	1548	7632
11 9	7 38 42.7314	1	7 2 49.792	15 43 42.73	9010	1548	7633
11 9	7 42 18.7383	1	6 56 52.077	37 28 59.95	9010	1549	646
11 9	7 43 14.7399	1	6 55 21.962	43 5 3.45	9010	1549	647
11 9	10 24 50.7404	1	3 42 25.339	11 14 58.44	9010	1552	648
11 9	10 25 14.7407	1	3 40 4.371	12 46 28.43	9010	1552	649
11 9	18 46 14.4205	1	4 20 57.737	19 5 39.83	9005	9141	548
11 9	18 47 34.4384	1	4 9 14.381	25 33 39.86	9005	9141	549
11 9	18 48 18.7228	1	8 51 48.612	26 40 55.34	9006	9366	775

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.	OBS. NO.
1963 11 9	18 48	34.7244		1	8 53	9.107		27 39	49.03	4	9006	9366	08
11 9	18 48	59.6906		1	3 54	36.786		32 17	6.78	4	9005	9142	02
11 9	18 49	31.6899		1	3 48	27.043		34 43	58.15	4	9005	9142	04
11 9	18 51	46.7393		1	9 14	24.469		39 23	34.78	4	9006	9367	03
11 9	18 51	48.9230		1	3 16	54.503		44 29	15.97	4	9005	9143	02
11 9	18 52	2.7397		1	9 16	41.614		40 21	3.79	4	9006	9367	04
11 9	18 52	36.9228		1	3 3	34.729		47 32	19.45	4	9005	9143	05
11 9	18 56	18.7428		1	10 9	35.341		54 27	6.00	4	9006	9368	04
11 9	18 56	34.7433		1	10 14	11.525		55 12	59.70	4	9006	9368	05
11 9	18 58	1.9621		1	0 55	48.828		61 10	39.25	4	9005	9144	07
11 9	18 58	17.9596		1	0 48	7.655		61 29	4.34	4	9005	9144	08
11 9	21 30	18.7317		1	6 8	37.383		21 47	.54	4	9006	9370	03
11 9	21 30	26.7323		1	6 8	.806		22 36	26.94	4	9006	9370	04
11 9	21 31	46.7375		1	6 1	24.334		30 53	16.20	4	9006	9371	04
11 9	21 31	54.7378		1	6 0	41.191		31 42	54.89	4	9006	9371	05
11 9	21 32	10.7209		1	8 21	51.105		23 48	50.44	4	9008	4948	02
11 9	21 32	42.7240		1	8 23	42.614		26 17	50.16	4	9008	4948	06
11 9	21 36	26.7453		1	5 24	14.492		58 5	58.31	4	9006	9372	05
11 9	21 36	34.7439		1	8 45	17.091		44 23	24.03	4	9008	4949	03
11 9	21 36	34.7455		1	5 22	35.014		58 47	23.17	4	9006	9372	06
11 9	21 36	50.7440		1	8 47	29.527		45 36	24.05	4	9008	4949	05
11 10	0 19	46.7490		1	4 7	5.516		36 52	25.32	4	9008	4951	03
11 10	0 20	10.7500		1	4 2	25.566		38 47	47.63	4	9008	4951	06
11 10	0 24	34.7583		1	2 50	39.827		56 31	8.87	4	9008	4952	05
11 10	0 24	50.7585		1	2 44	48.460		57 20	53.08	4	9008	4952	07
11 10	5 22	7.0416		1	8 58	19.869		-19 47	43.75	4	9011	1259	07
11 10	5 22	31.0414		1	8 55	24.523		-18 18	35.37	4	9011	1259	10
11 10	5 44	58.7645		1	8 32	27.252		22 27	21.41	4	9009	9476	04
11 10	5 45	30.7642		1	8 33	14.834		24 50	8.74	4	9009	9476	08
11 10	5 51	14.7475		1	8 53	55.443		49 14	15.66	4	9009	9477	03
11 10	5 51	22.7475		1	8 54	46.530		49 45	32.55	4	9009	9477	04
11 10	8 14	2.7353		1	5 49	15.338		-21 26	21.48	4	9007	993	02
11 10	8 14	10.7349		1	5 48	48.036		-20 37	24.12	4	9007	993	03
11 10	8 15	33.7421		1	5 24	18.717		-47 56	36.09	4	9009	9480	09
11 10	8 15	37.7417		1	5 24	7.971		-47 42	5.09	4	9009	9480	10
11 10	8 15	38.7333		1	5 43	55.115		-11 39	41.53	4	9007	994	02
11 10	8 15	41.7418		1	5 23	57.337		-47 27	29.60	4	9009	9480	11
11 10	8 15	45.7415		1	5 23	46.461		-47 12	53.44	4	9009	9480	12
11 10	8 15	46.7332		1	5 43	29.097		-10 51	4.85	4	9007	994	03
11 10	8 15	49.7416		1	5 23	35.820		-46 58	11.28	4	9009	9480	13
11 10	8 15	53.7415		1	5 23	24.801		-46 43	30.76	4	9009	9480	14
11 10	8 15	54.7330		1	5 43	2.786		-10 2	36.65	4	9007	994	04
11 10	8 15	57.7415		1	5 23	14.318		-46 28	45.42	4	9009	9480	15
11 10	8 16	2.7332		1	5 42	36.594		- 9 14	16.35	4	9007	994	05
11 10	8 16	10.7324		1	5 42	10.578		- 8 26	5.81	4	9007	994	06

DATE		TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	OBS. NO.			
Y	M	D	H	M	S	M.S	H	M	S	D	M	S					
1963	11	10	8	16	18.7321	1	5	41	44.687	-7	37	59.51	4	9007	994	07	358
	11	10	8	16	25.7422	1	5	21	58.049	-44	43	43.07	4	9009	9480	22	7902
	11	10	8	16	26.7323	1	5	41	18.642	-6	50	2.03	4	9007	994	08	359
	11	10	8	18	53.7421	1	5	14	56.790	-34	43	14.61	4	9009	9481	06	7903
	11	10	8	18	57.7418	1	5	14	44.658	-34	25	53.01	4	9009	9481	07	9896
	11	10	8	18	58.7311	1	5	33	2.313	7	42	42.06	4	9007	995	01	9903
	11	10	8	19	1.7419	1	5	14	32.591	-34	8	25.90	4	9009	9481	08	9897
	11	10	8	19	5.7416	1	5	14	20.377	-33	50	59.80	4	9009	9481	09	9898
	11	10	6	19	6.7313	1	5	32	35.748	8	26	10.81	4	9007	995	02	7895
	11	10	8	19	9.7418	1	5	14	8.509	-33	33	28.27	4	9009	9481	10	9899
	11	10	8	19	13.7412	1	5	13	56.328	-33	15	56.62	4	9009	9481	11	9900
	11	10	8	19	14.7309	1	5	32	9.136	9	9	19.12	4	9007	995	03	7896
	11	10	8	19	17.7420	1	5	13	44.272	-32	58	16.82	4	9009	9481	12	9901
	11	10	8	19	21.7414	1	5	13	32.007	-32	40	34.82	4	9009	9481	13	9902
	11	10	8	19	22.7306	1	5	31	42.539	9	52	12.80	4	9007	995	04	9904
	11	10	8	19	30.7301	1	5	31	15.491	10	34	46.86	4	9007	995	05	9905
	11	10	8	19	38.7298	1	5	30	49.029	11	17	2.56	4	9007	995	06	9906
	11	10	8	19	41.7422	1	5	12	30.593	-31	11	13.79	4	9009	9481	18	7904
	11	10	8	19	46.7299	1	5	30	21.880	11	58	58.95	4	9007	995	07	9907
	11	10	8	22	9.7430	1	5	4	21.730	-19	25	30.74	4	9009	9482	08	7905
	11	10	8	22	25.7428	1	5	3	24.627	-18	4	48.09	4	9009	9482	12	9400
	11	10	8	22	26.7264	1	5	20	58.564	24	53	36.69	4	9007	996	03	9407
	11	10	8	22	29.7429	1	5	3	10.191	-17	44	31.72	4	9009	9482	13	9401
	11	10	8	22	33.7430	1	5	2	55.704	-17	24	11.23	4	9009	9482	14	9402
	11	10	8	22	34.7264	1	5	20	28.633	25	29	5.94	4	9007	996	04	9408
	11	10	8	22	37.7429	1	5	2	41.170	-17	3	49.35	4	9009	9482	15	9403
	11	10	8	22	41.7431	1	5	2	26.547	-16	43	21.23	4	9009	9482	16	9404
	11	10	8	22	42.7261	1	5	19	58.810	26	4	16.89	4	9007	996	05	9409
	11	10	8	22	45.7431	1	5	2	11.913	-16	22	56.28	4	9009	9482	17	9405
	11	10	8	22	49.7430	1	5	1	57.299	-16	2	22.06	4	9009	9482	18	9406
	11	10	8	22	50.7264	1	5	19	28.567	26	39	6.65	4	9007	996	06	7897
	11	10	8	22	58.7260	1	5	18	58.174	27	13	40.78	4	9007	996	07	9410
	11	10	8	23	9.7436	1	5	0	42.833	-14	19	7.49	4	9009	9482	23	7906
	11	10	8	23	14.7261	1	5	17	57.142	28	21	58.00	4	9007	996	09	7898
	11	10	8	23	22.7257	1	5	17	26.289	28	55	37.40	4	9007	996	10	9411
	11	10	8	25	33.7435	1	4	50	55.117	-1	31	14.98	4	9009	9483	05	7907
	11	10	8	25	53.7436	1	4	49	25.386	0	17	29.51	4	9009	9483	10	1189
	11	10	8	25	54.7249	1	5	6	52.119	38	42	11.38	4	9007	997	03	1180
	11	10	8	25	57.7436	1	4	49	7.025	0	39	19.22	4	9009	9483	11	1190
	11	10	8	26	1.7433	1	4	48	48.787	1	1	5.81	4	9009	9483	12	1191
	11	10	8	26	2.7249	1	5	6	15.879	39	10	25.99	4	9007	997	04	1181
	11	10	8	26	5.7436	1	4	48	30.268	1	22	50.25	4	9009	9483	13	1192
	11	10	8	26	9.7430	1	4	48	11.926	1	44	38.86	4	9009	9483	14	1193
	11	10	8	26	10.7252	1	5	5	39.438	39	38	26.76	4	9007	997	05	7899
	11	10	8	26	13.7437	1	4	47	53.253	2	6	24.71	4	9009	9483	15	1194

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.	OBS. NO.
1963 11 10	8 26 17.7435	1	4 47 34.481	2 28 14.40	9009	9483	16
11 10	8 26 18.7246	1	5 5 2.490	40 6 10.72	9007	997	06
11 10	8 26 26.7247	1	5 4 25.403	40 33 41.98	9007	997	07
11 10	8 26 34.7250	1	5 3 47.683	41 1 1.32	9007	997	08
11 10	8 26 42.7247	1	5 3 9.806	41 28 1.05	9007	997	09
11 10	8 26 45.7432	1	4 45 20.903	5 0 39.60	9009	9483	23
11 10	8 30 5.7454	1	4 26 42.589	22 38 19.79	9009	9484	04
11 10	8 30 9.7451	1	4 26 16.825	22 58 29.08	9009	9484	05
11 10	8 30 10.6379	1	7 48 2.758	- 5 19 39.64	9001	2499	03
11 10	8 30 17.7452	1	4 25 24.709	23 38 31.41	9009	9484	07
11 10	8 30 21.7453	1	4 24 58.300	23 58 33.76	9009	9484	08
11 10	8 30 25.7453	1	4 24 31.820	24 18 28.99	9009	9484	09
11 10	8 30 26.6379	1	7 47 59.064	- 4 14 15.72	9001	2499	05
11 10	8 30 29.7453	1	4 24 5.035	24 38 21.09	9009	9484	10
11 10	8 30 33.7453	1	4 23 38.350	24 58 12.14	9009	9484	11
11 10	8 30 34.6376	1	7 47 57.653	- 3 41 11.20	9001	2499	06
11 10	8 30 50.6374	1	7 47 55.558	- 2 34 24.32	9001	2499	08
11 10	8 30 58.6368	1	7 47 54.986	- 2 0 40.61	9001	2499	09
11 10	8 31 6.6370	1	7 47 54.573	- 1 26 43.39	9001	2499	10
11 10	8 31 13.7461	1	4 19 1.093	28 12 58.90	9009	9484	21
11 10	8 31 22.6380	1	7 47 55.026	- 0 18 3.75	9001	2499	12
11 10	8 33 53.7463	1	3 57 13.338	40 5 10.90	9009	9485	05
11 10	8 34 53.7472	1	3 47 23.713	44 1 51.14	9009	9485	20
11 10	8 35 6.6357	1	7 50 24.317	17 18 57.10	9001	2500	03
11 10	8 36 10.6365	1	7 52 9.679	22 49 30.15	9001	2500	11
11 10	8 38 10.6359	1	7 57 15.886	33 30 2.90	9001	2501	03
11 10	8 38 42.6356	1	7 59 8.000	36 23 2.78	9001	2501	07
11 10	8 41 14.6363	1	8 12 25.503	49 54 58.25	9001	2502	07
11 10	8 41 30.6365	1	8 14 24.165	51 18 2.74	9001	2502	09
11 10	11 17 22.7406	1	4 34 18.878	- 0 25 43.72	9001	2507	03
11 10	11 17 38.7406	1	4 32 52.113	0 45 57.38	9001	2507	05
11 10	11 22 10.7392	1	4 1 51.663	21 40 42.22	9001	2508	05
11 10	11 22 50.7393	1	3 56 .531	24 43 18.60	9001	2508	10
11 10	11 26 34.7418	1	3 14 15.954	40 30 1.85	9001	2509	04
11 10	11 27 14.7421	1	3 4 51.353	42 59 5.10	9001	2509	09
11 10	19 37 14.7279	1	8 16 42.201	10 27 9.61	9006	9389	02
11 10	19 37 22.7277	1	8 16 55.532	11 1 27.19	9006	9389	03
11 10	19 42 10.7363	1	8 31 51.101	32 49 56.28	9006	9390	05
11 10	19 42 18.7362	1	8 32 31.181	33 27 20.19	9006	9390	06
11 10	19 43 46.7397	1	8 41 6.971	40 17 .92	9006	9391	03
11 10	19 43 54.7403	1	8 42 1.902	40 53 54.88	9006	9391	04
11 10	19 45 46.7429	1	8 57 48.128	49 18 48.72	9006	9392	04
11 10	19 45 54.7432	1	8 59 10.648	49 53 45.57	9006	9392	05
11 10	19 48 58.7472	1	9 44 50.475	62 10 10.93	9006	9393	02
11 10	19 49 6.7471	1	9 47 37.855	62 38 25.95	9006	9393	03

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.	OBS.No.
1963 11 10	19 52	58.7468	1 11 54 47.337	72 29 40.53	9006	9394	07
11 10	19 53	6.7473	12 0 50.572	72 39 55.04	9006	9394	08
11 10	22 23	6.7341	4 50 23.000	12 32 2.07	9006	9398	06
11 10	22 23	14.7348	4 49 29.507	13 14 44.53	9006	9398	07
11 10	22 24	26.7369	4 40 54.443	19 40 33.98	9006	9399	02
11 10	22 24	26.7404	7 26 9.425	19 21 59.91	9008	4959	02
11 10	22 24	34.7372	4 39 52.983	20 23 22.55	9006	9399	03
11 10	22 24	34.7404	7 26 8.352	20 7 21.43	9008	4959	03
11 10	22 24	42.7375	4 38 50.396	21 6 7.35	9006	9399	04
11 10	22 24	42.7413	7 26 7.633	20 52 48.17	9008	4959	04
11 10	22 24	50.7373	4 37 47.446	21 48 54.32	9006	9399	05
11 10	22 24	50.7410	7 26 7.089	21 38 29.43	9008	4959	05
11 10	22 24	58.7377	4 36 43.155	22 31 34.42	9006	9399	06
11 10	22 24	58.7410	7 26 7.035	22 24 15.87	9008	4959	06
11 10	22 26	39.2616	7 26 33.820	32 8 24.63	9008	4960	02
11 10	22 26	55.2619	7 26 43.799	33 42 12.77	9008	4960	04
11 11	1 9	54.7495	3 53 43.843	12 52 59.88	9008	4967	04
11 11	1 10	26.7511	3 50 9.005	15 5 23.71	9008	4967	08
11 11	1 14	34.7517	3 15 36.754	31 21 41.69	9008	4968	02
11 11	1 15	14.7525	3 8 41.623	33 45 45.55	9008	4968	07
11 11	1 19	30.7589	2 13 10.144	46 48 17.57	9008	4969	02
11 11	1 19	46.7588	2 8 59.739	47 27 49.98	9008	4969	05
11 11	6 23	38.7393	8 24 25.762	- 9 38 11.36	9007	1007	04
11 11	6 24	2.7386	8 22 25.350	- 7 46 25.42	9007	1007	07
11 11	6 25	38.7345	8 15 4.048	- 0 15 57.47	9007	1008	02
11 11	6 25	54.7342	8 13 56.204	0 59 19.89	9007	1008	04
11 11	6 26	14.7402	8 6 56.783	-34 16 9.61	9009	9493	06
11 11	6 26	18.7401	8 6 39.294	-34 2 2.04	9009	9493	07
11 11	6 27	14.9287	7 22 15.467	24 20 22.84	9011	1284	05
11 11	6 28	34.9326	7 17 50.565	29 7 56.46	9011	1284	10
11 11	6 33	10.7429	7 44 3.539	- 3 59 43.86	9009	9494	07
11 11	6 33	18.7428	7 43 44.654	- 3 18 5.84	9009	9494	09
11 11	6 34	18.7330	7 49 38.852	37 18 7.41	9007	1009	05
11 11	6 34	34.7331	7 49 11.141	38 17 41.64	9007	1009	07
11 11	6 36	58.3275	7 36 33.305	16 50 19.54	9009	9495	05
11 11	9 5	38.7403	4 27 30.651	-30 36 37.87	9007	1013	06
11 11	9 5	46.7401	4 27 40.144	-29 55 42.71	9007	1013	07
11 11	9 16	18.7464	4 7 38.041	-15 22 50.36	9009	9501	02
11 11	9 16	22.7457	4 7 29.384	-15 6 12.12	9009	9501	03
11 11	9 16	58.7310	4 17 48.441	22 4 55.05	9007	1014	07
11 11	9 17	6.7310	4 17 27.514	22 34 18.24	9007	1014	08
11 11	9 21	22.7446	6 58 46.319	-18 55 20.62	9001	2524	04
11 11	9 21	54.7446	6 57 29.996	-16 47 12.44	9001	2524	08
11 11	9 24	42.7455	6 50 58.785	- 4 17 15.29	9001	2525	03
11 11	9 24	42.7475	3 37 13.071	19 16 36.83	9009	9503	06

DATE			TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	OBS. NO.	
Y	M	D	H	M	S	MS	H	M	S	D	W	S	S				
1963	11	11	9	24	50.7457	1	6	50	40.129	-	3	38	5.76	4	9001	2525	04
	11	11	9	24	50.7476	1	3	36	30.354	19	47	8.39	4	9009	9503	08	
	11	11	9	24	58.7459	1	6	50	21.778	-	2	58	39.32	4	9001	2525	05
	11	11	9	24	58.7478	1	3	35	46.983	20	17	30.55	4	9009	9503	10	
	11	11	9	25	14.7457	1	6	49	44.530	-	1	38	49.36	4	9001	2525	07
	11	11	9	25	14.7481	1	3	34	18.899	21	17	49.89	4	9009	9503	14	
	11	11	9	25	22.7456	1	6	49	26.013	-	0	58	25.84	4	9001	2525	08
	11	11	9	25	22.7478	1	3	33	34.059	21	47	48.54	4	9009	9503	16	
	11	11	9	25	30.7458	1	6	49	7.295	-	0	17	42.17	4	9001	2525	09
	11	11	9	25	30.7477	1	3	32	48.730	22	17	36.09	4	9009	9503	18	
	11	11	9	28	2.7422	1	6	43	3.606	13	33	22.47	4	9001	2526	05	
	11	11	9	28	18.7416	1	6	42	23.483	15	6	39.17	4	9001	2526	07	
	11	11	9	28	26.7412	1	6	42	3.331	15	53	37.13	4	9001	2526	08	
	11	11	9	28	34.7410	1	6	41	42.971	16	40	49.84	4	9001	2526	09	
	11	11	9	28	42.7408	1	6	41	22.393	17	28	16.12	4	9001	2526	10	
	11	11	9	28	50.7414	1	6	41	1.875	18	15	53.82	4	9001	2526	11	
	11	11	9	28	58.7407	1	6	40	41.068	19	3	45.25	4	9001	2526	12	
	11	11	9	29	10.7487	1	3	8	10.747	34	51	40.99	4	9009	9504	07	
	11	11	9	29	14.7487	1	3	7	39.197	35	4	11.61	4	9009	9504	08	
	11	11	9	29	18.7489	1	3	7	7.670	35	16	31.66	4	9009	9504	09	
	11	11	9	29	22.7407	1	6	39	37.669	21	28	22.47	4	9001	2526	14	
	11	11	9	29	22.7490	1	3	6	36.005	35	28	54.50	4	9009	9504	10	
	11	11	9	29	26.7488	1	3	6	4.251	35	41	11.55	4	9009	9504	11	
	11	11	9	29	30.7489	1	3	5	32.184	35	53	26.31	4	9009	9504	12	
	11	11	9	29	38.7488	1	3	4	27.304	36	17	49.14	4	9009	9504	14	
	11	11	9	30	50.7430	1	6	35	29.579	30	29	23.11	4	9001	2527	04	
	11	11	9	31	14.7429	1	6	34	16.346	32	58	33.39	4	9001	2527	07	
	11	11	12	12	34.7274	1	7	46	19.143	22	7	45.24	4	9012	1843	03	
	11	11	12	13	14.7272	1	7	46	28.007	25	50	15.19	4	9012	1843	08	
	11	11	12	17	22.7326	1	7	52	15.602	48	18	22.47	4	9012	1844	03	
	11	11	12	17	22.7432	1	3	25	.984	20	52	.49	4	9001	2532	08	
	11	11	12	17	30.7325	1	7	52	38.481	48	59	33.28	4	9012	1844	04	
	11	11	12	17	30.7433	1	3	23	59.737	21	19	59.18	4	9001	2532	09	
	11	11	12	17	38.7327	1	7	53	2.170	49	40	26.74	4	9012	1844	05	
	11	11	12	17	38.7433	1	3	22	57.421	21	47	48.68	4	9001	2532	10	
	11	11	12	17	46.7324	1	7	53	27.067	50	21	16.84	4	9012	1844	06	
	11	11	12	17	46.7434	1	3	21	54.644	22	15	33.31	4	9001	2532	11	
	11	11	12	17	54.7327	1	7	53	53.101	51	1	47.88	4	9012	1844	07	
	11	11	12	17	54.7434	1	3	20	51.078	22	43	11.01	4	9001	2532	12	
	11	11	12	18	2.7328	1	7	54	20.298	51	42	4.35	4	9012	1844	08	
	11	11	12	18	2.7434	1	3	19	46.828	23	10	46.55	4	9001	2532	13	
	11	11	12	18	10.7337	1	7	54	48.322	52	22	13.53	4	9012	1844	09	
	11	11	12	18	10.7432	1	3	18	41.507	23	38	13.05	4	9001	2532	14	
	11	11	12	21	46.7375	1	8	19	13.368	68	47	9.52	4	9012	1845	03	
	11	11	12	22	34.7377	1	8	30	11.580	71	57	44.29	4	9012	1845	09	

DATE			TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	OBS. NO.	
Y	M	D	H	M	S	M S	H	M	S	D	M	S	S				
1963	11	11	14	56	10.7323	1	4	1	9.118	7	39	9.90	4	9012	1852	01	97
	11	11	14	56	50.7321	1	3	57	34.758	10	33	23.55	4	9012	1852	06	98
	11	11	14	59	30.7294	1	3	40	57.497	21	50	32.75	4	9012	1853	02	99
	11	11	15	0	10.7295	1	3	36	8.549	24	32	15.92	4	9012	1853	07	100
	11	11	15	4	10.7331	1	3	0	19.476	39	4	50.14	4	9012	1854	03	101
	11	11	15	4	34.7401	1	8	31	40.132	23	13	57.72	4	9005	9157	05	556
	11	11	15	4	42.7333	1	2	54	30.513	40	46	15.31	4	9012	1854	07	102
	11	11	15	5	30.7413	1	8	36	2.556	27	6	33.70	4	9005	9157	12	557
	11	11	20	33	46.7381	1	7	29	15.265	26	44	39.36	4	9006	9417	03	575
	11	11	20	33	54.7384	1	7	29	18.555	27	30	58.63	4	9006	9417	04	576
11	11	20	35	6.7403	1	7	30	3.650	34	30	11.21	4	9006	9418	03	577	
11	11	20	35	46.7416	1	7	30	45.603	38	23	14.74	4	9006	9418	08	578	
11	11	20	39	38.7796	1	7	41	22.234	59	54	40.02	4	9006	9419	02	1331	
11	11	20	39	54.7800	1	7	42	47.021	61	17	12.80	4	9006	9419	04	1332	
11	11	20	44	18.7855	1	9	1	45.265	80	51	47.72	4	9006	9420	03	579	
11	11	20	44	42.7858	1	9	25	13.937	82	13	28.43	4	9006	9420	06	580	
11	11	23	18	28.8404	1	3	51	23.815	15	12	29.19	4	9006	9426	06	581	
11	11	23	18	44.8402	1	3	49	37.422	16	18	46.60	4	9006	9426	08	582	
11	12	2	10	9.5654	1	7	30	33.685	39	50	31.00	4	9004	1254	04	6760	
11	12	2	10	33.5653	1	7	31	30.239	42	10	44.62	4	9004	1254	07	6761	
11	12	7	9	6.7324	1	7	16	12.374	-37	12	48.02	4	9011	1298	06	9657	
11	12	7	10	18.7305	1	7	6	46.301	-30	11	7.49	4	9011	1298	15	9658	
11	12	7	18	34.7265	1	6	26	31.435	14	30	48.43	4	9011	1300	02	8190	
11	12	7	18	34.7300	1	7	10	53.611	-7	16	34.65	4	9007	1031	01	8171	
11	12	7	18	42.7264	1	6	26	3.012	15	6	16.31	4	9011	1300	03	8191	
11	12	7	18	42.7298	1	7	10	12.276	-6	29	36.28	4	9007	1031	02	8172	
11	12	7	18	50.7264	1	6	25	34.904	15	41	23.07	4	9011	1300	04	9316	
11	12	7	18	50.7296	1	7	9	31.300	-5	42	41.98	4	9007	1300	03	8173	
11	12	7	18	58.7263	1	6	25	6.821	16	16	13.74	4	9011	1300	05	8193	
11	12	7	18	58.7292	1	7	8	50.721	-4	55	49.30	4	9007	1031	04	8174	
11	12	7	19	6.7262	1	6	24	38.846	16	50	52.16	4	9011	1300	06	8194	
11	12	7	19	6.7292	1	7	8	10.471	-4	9	3.66	4	9007	1031	05	8175	
11	12	7	19	14.7262	1	6	24	11.148	17	25	.56	4	9011	1300	07	8195	
11	12	7	19	14.7291	1	7	7	30.538	-3	22	17.48	4	9007	1031	06	8176	
11	12	7	19	30.7260	1	6	23	15.709	18	32	52.32	4	9011	1300	09	8196	
11	12	7	19	30.7287	1	7	6	11.727	-1	49	7.35	4	9007	1031	08	8177	
11	12	7	19	46.7260	1	6	22	21.012	19	39	31.93	4	9011	1300	11	8197	
11	12	7	19	46.7285	1	7	4	54.296	-0	16	20.17	4	9007	1031	10	8178	
11	12	7	33	54.7413	1	8	18	38.754	0	53	.91	4	9001	2544	04	9635	
11	12	7	34	10.7416	1	8	18	56.885	1	50	57.22	4	9001	2544	05	9636	
11	12	7	37	22.7389	1	8	24	51.547	14	11	36.18	4	9001	2545	04	9637	
11	12	7	37	38.7386	1	8	25	33.691	15	16	54.27	4	9001	2545	05	9638	
11	12	7	42	29.7181	1	8	47	9.553	36	3	32.13	4	9001	2546	02	9639	
11	12	7	43	9.7182	1	8	51	55.131	38	57	32.48	4	9001	2546	07	9640	
11	12	10	16	10.7480	1	5	47	23.137	-16	35	56.21	4	9001	2551	04	9641	

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.	OBS. NO.
1963 11 12	10 16	58.7476	1	5 44	14.019	-13 5 37.97	4	9001	2551	10 9642
11 12	10 21	54.7470	1	5 20	7.502	11 56 19.44	4	9001	2552	03 9643
11 12	10 22	50.7464	1	5 14	11.666	17 11 24.32	4	9001	2552	10 9644
11 12	10 24	26.7445	1	5 2	26.273	26 18 46.09	4	9001	2553	02 9645
11 12	10 24	50.7437	1	4 59	6.802	28 35 17.95	4	9001	2553	05 9646
11 12	18 44	2.7384	1	8 50	35.339	25 0 31.73	4	9006	9437	11 583
11 12	18 44	10.7385	1	8 51	11.986	25 30 29.65	4	9006	9437	12 584
11 12	18 48	2.7437	1	9 15	50.885	39 59 27.63	4	9006	9438	05 585
11 12	18 48	26.7440	1	9 19	21.514	41 27 18.02	4	9006	9438	08 586
11 12	18 53	22.7488	1	10 27	1.618	57 33 35.87	4	9006	9439	02 587
11 12	18 53	30.7490	1	10 29	40.808	57 55 3.32	4	9006	9439	03 588
11 12	21 24	10.7333	1	6 12	41.034	6 58 11.27	4	9006	9443	02 589
11 12	21 24	26.7338	1	6 11	35.816	8 30 39.74	4	9006	9443	04 590
11 12	21 25	22.7331	1	6 7	36.385	14 1 27.05	4	9006	9444	04 591
11 12	21 25	54.7341	1	6 5	10.550	17 14 40.74	4	9006	9444	08 592
11 12	21 27	54.7382	1	5 54	46.504	29 32 56.84	4	9006	9445	02 1333
11 12	21 28	10.7390	1	5 53	11.880	31 11 42.16	4	9006	9445	04 1334
11 12	21 32	26.7520	1	5 16	22.709	55 54 53.66	4	9006	9446	03 593
11 12	21 32	50.7527	1	5 11	5.697	57 58 23.87	4	9006	9446	06 594
11 13	0 14	50.7478	1	4 16	19.580	29 50 38.77	4	9008	4987	03 2592
11 13	0 15	30.7491	1	4 9	36.504	33 7 44.47	4	9008	4987	08 2593
11 13	0 20	42.7588	1	2 52	40.863	54 34 21.05	4	9008	4988	04 2594
11 13	0 21	14.7600	1	2 41	32.706	56 12 57.44	4	9008	4988	08 2595
11 13	5 19	6.9668	1	8 54	1.193	-17 46 58.24	4	9011	1319	06 9659
11 13	5 19	22.9667	1	8 52	7.706	-16 45 23.30	4	9011	1319	08 9660
11 13	8 2	58.5710	1	5 31	9.838	-37 51 26.84	4	9011	1328	03 9661
11 13	8 3	22.5703	1	5 30	51.292	-35 27 57.71	4	9011	1328	06 9662
11 13	8 10	18.7439	1	5 42	4.992	-21 42 3.85	4	9007	1047	04 1083
11 13	8 10	26.7433	1	5 41	40.959	-20 53 27.75	4	9007	1047	05 1084
11 13	8 11	54.7315	1	5 20	2.994	10 9 25.76	4	9011	1329	07 7569
11 13	8 11	54.7424	1	5 37	21.174	-11 59 45.36	4	9007	1048	01 8055
11 13	8 12	2.7316	1	5 19	49.149	10 43 50.20	4	9011	1329	08 7570
11 13	8 12	2.7422	1	5 36	57.541	-11 11 38.20	4	9007	1048	02 8056
11 13	8 12	10.7315	1	5 19	35.400	11 17 57.05	4	9011	1329	09 7571
11 13	8 12	10.7418	1	5 36	33.816	-10 23 35.55	4	9007	1048	03 8057
11 13	8 12	18.7315	1	5 19	21.444	11 51 47.74	4	9011	1329	10 7572
11 13	8 12	18.7420	1	5 36	10.359	-9 35 40.22	4	9007	1048	04 6
11 13	8 12	26.7315	1	5 19	7.311	12 25 22.27	4	9011	1329	11 7573
11 13	8 12	26.7415	1	5 35	46.772	-8 47 47.90	4	9007	1048	05 8059
11 13	8 12	34.7314	1	5 18	53.109	12 58 40.60	4	9011	1329	12 7574
11 13	8 12	34.7413	1	5 35	23.240	-8 0 9.03	4	9007	1048	06 8060
11 13	8 19	22.7276	1	5 13	25.004	27 6 41.66	4	9007	1049	08 1085
11 13	8 24	18.7529	1	7 47	44.240	-14 1 13.48	4	9001	2566	04 9647
11 13	8 25	22.7529	1	7 46	52.682	-10 0 3.17	4	9001	2566	12 1309
11 13	8 28	50.7498	1	7 45	57.438	4 48 30.73	4	9001	2567	03 9649

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.	OBS. NO.
	H	M	S		H	M	S	D	M	S			
1963	11 13	6 30	10.7497	1	7 46	30.298	11 13	42.69	4	9001	2567	13	9650
	11 13	8 34	2.7457	1	7 52	12.908	31 38	7.86	4	9001	2568	03	9651
	11 13	8 34	34.7452	1	7 53	40.724	34 34	25.46	4	9001	2568	07	9652
	11 13	11 12	34.7384	1	8 29	38.699	7 58	41.69	4	9012	1880	01	7575
	11 13	11 12	34.7546	1	4 37	55.751	- 5 20	51.21	4	9001	2574	02	8048
	11 13	11 12	42.7382	1	8 29	45.713	8 32	20.94	4	9012	1880	02	7576
	11 13	11 12	42.7546	1	4 37	17.034	- 4 46	47.62	4	9001	2574	03	8049
	11 13	11 12	50.7382	1	8 29	53.306	9 6	11.87	4	9012	1880	03	7577
	11 13	11 12	50.7547	1	4 36	37.875	- 4 12	34.70	4	9001	2574	04	8050
	11 13	11 12	58.7381	1	8 30	1.188	9 40	2.59	4	9012	1880	04	7578
	11 13	11 12	58.7548	1	4 35	58.128	- 3 38	14.27	4	9001	2574	05	8051
	11 13	11 13	6.7384	1	8 30	9.557	10 14	4.21	4	9012	1880	05	7579
11 13	11 13	6.7545	1	4 35	18.156	- 3 3	49.57	4	9001	2574	06	8052	
11 13	11 13	14.7385	1	8 30	18.426	10 48	15.51	4	9012	1880	06	7580	
11 13	11 13	14.7545	1	4 34	37.448	- 2 29	13.77	4	9001	2574	07	8053	
11 13	11 13	22.7388	1	8 30	27.685	11 22	28.41	4	9012	1880	07	7581	
11 13	11 13	22.7543	1	4 33	56.416	- 1 54	32.64	4	9001	2574	08	8054	
11 13	11 18	26.7361	1	8 43	20.074	33 49	16.20	4	9012	1881	02	8799	
11 13	11 18	26.7522	1	4	0	40.579	20 50	13.86	4	9001	2575	02	8994
11 13	11 18	34.7360	1	8 43	54.484	34 24	50.75	4	9012	1881	03	8800	
11 13	11 18	34.7527	1	3 59	33.791	21 26	.97	4	9001	2575	03	8995	
11 13	11 18	42.7361	1	8 44	29.838	35 0	18.89	4	9012	1881	04	8801	
11 13	11 18	42.7525	1	3 58	26.045	22 1	45.21	4	9001	2575	04	8996	
11 13	11 18	50.7357	1	8 45	6.117	35 35	46.80	4	9012	1881	05	8802	
11 13	11 18	50.7527	1	3 57	17.352	22 37	25.03	4	9001	2575	05	8997	
11 13	11 18	58.7412	1	8 45	43.407	36 11	8.51	4	9012	1881	06	8803	
11 13	11 18	58.7525	1	3 56	8.044	23 12	54.79	4	9001	2575	06	8998	
11 13	11 19	6.7364	1	8 46	21.679	36 46	26.20	4	9012	1881	07	8804	
11 13	11 19	6.7525	1	3 54	57.262	23 48	23.66	4	9001	2575	07	8999	
11 13	11 19	14.7364	1	8 47	1.033	37 21	40.75	4	9012	1881	08	8805	
11 13	11 19	14.7525	1	3 53	45.947	24 23	44.27	4	9001	2575	08	9000	
11 13	11 19	22.7366	1	8 47	41.475	37 56	51.31	4	9012	1881	09	8806	
11 13	11 19	22.7524	1	3 52	33.408	24 58	57.48	4	9001	2575	09	9001	
11 13	11 24	2.7364	1	9 26	50.727	56 59	35.45	4	9012	1882	01	8986	
11 13	11 24	2.7506	1	2 57	41.934	43 33	26.10	4	9001	2576	04	8140	
11 13	11 24	10.7364	1	9 28	35.421	57 28	40.62	4	9012	1882	02	8987	
11 13	11 24	10.7506	1	2 55	42.526	44 0	38.09	4	9001	2576	05	8141	
11 13	11 24	18.7364	1	9 30	23.219	57 57	28.77	4	9012	1882	03	8988	
11 13	11 24	18.7506	1	2 53	41.030	44 27	35.20	4	9001	2576	06	8142	
11 13	11 24	26.7364	1	9 32	13.573	58 26	2.04	4	9012	1882	04	8989	
11 13	11 24	26.7505	1	2 51	38.199	44 54	8.88	4	9001	2576	07	8143	
11 13	11 24	34.7365	1	9 34	7.642	58 54	22.26	4	9012	1882	05	8990	
11 13	11 24	34.7507	1	2 49	33.322	45 20	25.61	4	9001	2576	08	8144	
11 13	11 24	42.7366	1	9 36	4.467	59 22	22.45	4	9012	1882	06	8991	
11 13	11 24	42.7506	1	2 47	26.896	45 46	20.61	4	9001	2576	09	8145	

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.	OBS.NO.
1963 11 13	11 24	50.7367	1	9 38	4.615	59 50	5.13	4	9012	1882	8992
11 13	11 24	50.7506	1	2 45	18.636	46 11	54.31	4	9001	2576	8146
11 13	11 24	58.7368	1	9 40	8.219	60 17	34.74	4	9012	1882	8993
11 13	11 24	58.7506	1	2 43	8.745	46 37	12.28	4	9001	2576	8147
11 13	13 58	17.3499	1	4 54	36.167	8 55	1.25	4	9012	1885	103
11 13	13 59	29.3618	1	4 47	14.038	15 29	44.59	4	9012	1885	104
11 13	14 9	50.7414	1	2 41	19.443	59 58	42.24	4	9012	1886	105
11 13	14 10	42.7414	1	2 21	59.432	62 4	7.86	4	9012	1886	106
11 13	22 16	10.7331	1	5 5	.860	- 4 19	.01	4	9006	9458	8148
11 13	22 16	10.7351	1	7 25	50.576	- 4 31	34.07	4	9008	5004	9312
11 13	22 16	26.7336	1	5 3	40.385	- 3 1	1.25	4	9006	9458	8149
11 13	22 16	26.7355	1	7 25	29.314	- 3 16	7.34	4	9008	5004	7789
11 13	22 16	34.7340	1	5 2	59.481	- 2 21	49.86	4	9006	9458	8150
11 13	22 16	34.7352	1	7 25	19.015	- 2 37	58.20	4	9008	5004	9313
11 13	22 20	34.7442	1	4 38	12.619	18 11	35.86	4	9006	9460	8812
11 13	22 20	34.7457	1	7 21	29.076	18 31	41.76	4	9008	5005	8041
11 13	22 20	42.7444	1	4 37	12.228	18 53	25.78	4	9006	9460	8813
11 13	22 20	42.7458	1	7 21	24.544	19 17	38.21	4	9008	5005	8042
11 13	22 20	50.7445	1	4 36	10.973	19 35	16.04	4	9006	9460	8814
11 13	22 20	50.7461	1	7 21	19.743	20 3	39.07	4	9008	5005	8043
11 13	22 20	58.7446	1	4 35	9.133	20 17	6.03	4	9006	9460	8815
11 13	22 20	58.7463	1	7 21	15.771	20 49	53.98	4	9008	5005	8044
11 13	22 21	6.7447	1	4 34	6.141	20 58	51.50	4	9006	9460	8816
11 13	22 21	6.7466	1	7 21	11.638	21 36	12.86	4	9008	5005	9314
11 13	22 21	14.7450	1	4 33	2.156	21 40	31.52	4	9006	9460	8817
11 13	22 21	14.7469	1	7 21	7.936	22 22	49.14	4	9008	5005	8046
11 13	22 21	22.7449	1	4 31	57.310	22 22	8.11	4	9006	9460	8818
11 13	22 21	22.7469	1	7 21	4.205	23 9	24.40	4	9008	5005	8047
11 13	22 24	58.7485	1	3 55	30.051	40 7	17.33	4	9006	9461	7546
11 13	22 25	6.7490	1	3 53	49.229	40 43	26.96	4	9006	9461	7547
11 13	22 25	6.7538	1	7 21	24.139	45 13	2.94	4	9008	5006	8133
11 13	22 25	14.7492	1	3 52	6.562	41 19	20.55	4	9006	9461	7548
11 13	22 25	14.7540	1	7 21	30.465	45 59	34.47	4	9008	5006	8134
11 13	22 25	22.7494	1	3 50	22.289	41 54	53.91	4	9006	9461	7549
11 13	22 25	22.7543	1	7 21	37.558	46 45	56.06	4	9008	5006	8135
11 13	22 25	30.7499	1	3 48	36.147	42 30	9.09	4	9006	9461	7550
11 13	22 25	30.7544	1	7 21	44.765	47 32	4.75	4	9008	5006	8136
11 13	22 25	38.7500	1	3 46	48.217	43 5	6.54	4	9006	9461	7551
11 13	22 25	38.7546	1	7 21	52.646	48 18	5.62	4	9008	5006	8137
11 13	22 25	46.7501	1	3 44	58.322	43 39	41.75	4	9006	9461	7552
11 13	22 25	46.7552	1	7 22	1.460	49 3	59.16	4	9008	5006	8138
11 13	22 25	54.7553	1	7 22	10.721	49 49	38.44	4	9008	5006	8139
11 14	1 6	34.7552	1	3 51	8.453	13 53	27.16	4	9008	5010	3674
11 14	1 7	14.7554	1	3 46	36.330	16 34	8.70	4	9008	5010	2597
11 14	1 12	18.7585	1	3 1	34.965	35 24	51.66	4	9008	5011	2598

LATE 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.	OBS. NO.
1963 11 14	1 12 58.7588	1	2 53 58.864	37 35 7.24	9008	5011	2599
11 14	6 12 36.6671	1	8 19 41.624	-25 37 18.15	9011	1334	9663
11 14	6 15 11.1997	1	7 59 38.377	-12 49 1.14	9011	1334	9664
11 14	6 19 38.7449	1	8 23 57.786	-11 31 40.36	9007	1067	1086
11 14	6 19 54.7444	1	8 22 32.492	-10 15 37.79	9007	1067	1087
11 14	6 30 10.7285	1	8 3 8.156	-17 6 35.82	9010	1580	7781
11 14	6 30 10.7356	1	7 46 51.615	36 7 8.72	9007	1068	7553
11 14	6 30 18.7285	1	8 2 58.020	-16 37 56.26	9010	1580	7782
11 14	6 30 18.7354	1	7 46 35.052	36 37 48.67	9007	1068	7554
11 14	6 30 26.7286	1	8 2 48.176	-16 9 .89	9010	1580	7783
11 14	6 30 26.7352	1	7 46 18.872	37 8 18.44	9007	1068	7555
11 14	6 30 34.7285	1	8 2 38.711	-15 39 56.66	9010	1580	7784
11 14	6 30 34.7354	1	7 46 2.593	37 38 38.57	9007	1068	7556
11 14	6 30 42.7285	1	8 2 29.225	-15 10 37.89	9010	1580	9311
11 14	6 30 42.7351	1	7 45 46.758	38 8 47.43	9007	1068	7557
11 14	6 30 50.7285	1	8 2 20.426	-14 41 7.21	9010	1580	7785
11 14	6 30 50.7352	1	7 45 31.123	38 38 45.80	9007	1068	7558
11 14	6 30 58.7286	1	8 2 11.514	-14 11 23.46	9010	1580	7786
11 14	6 30 58.7351	1	7 45 15.857	39 8 35.26	9007	1068	7559
11 14	6 31 6.7289	1	8 2 3.328	-13 41 28.78	9010	1580	7787
11 14	6 31 6.7350	1	7 45 .740	39 38 12.45	9007	1068	7560
11 14	6 31 14.7289	1	8 1 54.998	-13 11 14.60	9010	1580	7788
11 14	6 31 14.7352	1	7 44 45.623	40 7 38.84	9007	1068	7561
11 14	9 2 50.7432	1	4 25 3.319	-25 35 3.57	9007	1072	1088
11 14	9 3 30.7421	1	4 25 38.683	-22 13 33.94	9007	1072	1089
11 14	9 12 42.7345	1	4 17 40.225	19 21 40.03	9007	1073	1090
11 14	9 13 38.7334	1	4 15 25.208	22 45 50.57	9007	1073	1091
11 14	9 17 6.7527	1	6 56 27.486	-21 28 16.21	9001	2586	1487
11 14	9 17 54.7528	1	6 54 24.441	-18 20 9.38	9001	2586	4185
11 14	9 20 34.7548	1	6 47 37.783	- 6 37 39.38	9001	2587	1489
11 14	9 21 22.7545	1	6 45 34.191	- 2 42 42.08	9001	2587	1490
11 14	9 25 14.7543	1	6 34 46.726	18 45 48.71	9001	2588	9302
11 14	9 25 14.7900	1	4 1 27.064	22 17 6.04	9010	1586	7773
11 14	9 25 22.7542	1	6 34 21.826	19 33 59.47	9001	2588	7854
11 14	9 25 22.7900	1	4 0 22.127	22 53 34.80	9010	1586	7774
11 14	9 25 30.7544	1	6 33 56.660	20 22 25.02	9001	2588	7855
11 14	9 25 30.7903	1	3 59 16.746	23 29 54.77	9010	1586	7775
11 14	9 25 38.7542	1	6 33 31.372	21 10 57.42	9001	2588	7856
11 14	9 25 38.7905	1	3 58 10.073	24 6 9.35	9010	1586	7776
11 14	9 25 46.7541	1	6 33 5.586	21 59 41.35	9001	2588	7857
11 14	9 25 46.7906	1	3 57 2.486	24 42 14.41	9010	1586	7777
11 14	9 25 54.7540	1	6 32 39.640	22 48 32.66	9001	2588	7858
11 14	9 25 54.7906	1	3 55 54.060	25 18 10.69	9010	1586	7778
11 14	9 26 2.7541	1	6 32 13.463	23 37 32.90	9001	2588	123
11 14	9 26 2.7907	1	3 54 44.655	25 53 57.42	9010	1586	7779

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.	OBS. NO.
1963 11 14	9	26	10.7541	1	6	31	46.828	24	26	41.90	9001	2588	9304
11 14	9	26	10.7907	1	3	53	34.672	26	29	33.38	9010	1586	7780
11 14	9	26	50.7545	1	6	29	28.877	28	33	59.15	9001	2589	1491
11 14	9	27	6.7548	1	6	28	31.010	30	13	29.06	9001	2589	1492
11 14	12	8	42.7339	1	7	41	42.080	21	26	49.91	9012	1900	2776
11 14	12	9	6.7338	1	7	41	36.006	23	42	47.12	9012	1900	2777
11 14	12	12	58.7580	1	3	31	39.574	17	50	39.29	9001	2592	3671
11 14	12	13	6.7581	1	3	30	43.186	18	18	25.28	9001	2592	3671
11 14	12	13	14.7390	1	7	44	12.639	46	43	52.08	9012	1901	4184
11 14	12	13	54.7390	1	7	45	30.199	50	13	44.94	9012	1901	2831
11 14	12	17	46.7367	1	8	3	44.065	68	28	6.31	9012	1902	2778
11 14	12	18	18.7366	1	8	8	55.828	70	40	48.69	9012	1902	2779
11 14	14	55	30.7418	1	3	42	40.061	19	54	47.80	9012	1909	2780
11 14	14	56	2.7424	1	3	39	3.008	22	2	36.79	9012	1909	2781
11 14	14	59	6.7423	1	3	14	35.509	33	27	52.16	9012	1910	2782
11 14	14	59	38.7426	1	3	9	37.311	35	16	50.72	9012	1910	2783
11 14	20	30	10.7427	1	7	23	57.931	27	35	4.02	9006	9473	2825
11 14	20	31	14.7440	1	8	45	59.002	21	29	7.35	9008	5023	2826
11 14	20	31	22.7438	1	8	46	29.860	21	59	37.46	9008	5023	2827
11 14	20	32	18.7471	1	7	24	24.167	40	11	30.32	9006	9474	1335
11 14	20	32	34.7481	1	7	24	34.781	41	45	22.37	9006	9474	1336
11 14	20	35	38.7515	1	9	10	41.285	38	27	46.57	9008	5024	7542
11 14	20	35	38.7536	1	7	29	40.568	59	0	3.66	9006	9475	7423
11 14	20	35	46.7514	1	9	11	44.721	38	58	17.75	9008	5024	7543
11 14	20	35	46.7540	1	7	30	5.525	59	42	27.90	9006	9475	9299
11 14	20	35	54.7514	1	9	12	49.694	39	28	48.34	9008	5024	7544
11 14	20	35	54.7544	1	7	30	31.270	60	24	34.23	9006	9475	7425
11 14	20	36	2.7515	1	9	13	55.899	39	59	9.07	9008	5024	7545
11 14	20	36	2.7546	1	7	30	58.696	61	6	27.86	9006	9475	7426
11 14	23	15	30.7517	1	5	48	10.781	25	0	8.02	9008	5026	2600
11 14	23	15	46.7526	1	5	46	33.600	26	37	56.31	9008	5026	2601
11 15	1	56	2.7589	1	7	26	22.142	-12	28	23.45	9004	1260	6762
11 15	1	56	18.7587	1	7	26	3.718	-11	26	43.86	9004	1260	6763
11 15	2	0	26.7550	1	7	22	43.580	6	45	22.05	9004	1261	2739
11 15	2	0	34.7548	1	7	22	40.013	7	25	7.09	9004	1261	2740
11 15	2	6	24.9155	1	7	24	36.858	40	0	31.95	9004	1262	2741
11 15	2	6	32.9155	1	7	24	48.516	40	47	52.70	9004	1262	2742
11 15	4	50	42.3320	1	3	45	19.405	23	15	4.06	9004	1265	2743
11 15	4	50	50.3319	1	3	44	6.883	23	47	29.32	9004	1265	2744
11 15	7	14	42.7434	1	7	5	26.308	-8	37	22.50	9007	1092	1221
11 15	7	15	22.7426	1	7	2	3.632	-4	39	23.60	9007	1092	1222
11 15	7	21	30.7328	1	6	35	34.045	28	12	27.14	9007	1093	1223
11 15	7	22	26.7320	1	6	31	52.177	32	22	14.76	9007	1093	1224
11 15	7	25	14.7323	1	6	20	35.686	43	30	30.05	9007	1094	7843
11 15	7	25	15.2318	1	7	6	24.154	-16	12	6.50	9010	1603	7848

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.	OBS. NO.
1963 11 15	7 25 22.7321	1	6 20 2.313	43 59 27.69	4	9007	1094	7844
11 15	7 25 23.2319	1	7 6 3.151	-15 36 47.24	4	9010	1603	7849
11 15	7 25 38.7322	1	6 18 55.385	44 56 45.64	4	9007	1094	7845
11 15	7 25 39.2320	1	7 5 21.708	-14 25 17.49	4	9010	1603	9301
11 15	7 25 46.7315	1	6 18 21.623	45 25 .31	4	9007	1094	7846
11 15	7 25 47.2321	1	7 5 1.047	-13 48 58.88	4	9010	1603	7851
11 15	7 25 54.7321	1	6 17 47.730	45 53 10.71	4	9007	1094	9300
11 15	7 25 55.2323	1	7 4 40.367	-13 12 29.50	4	9010	1603	7852
11 15	7 26 2.7321	1	6 17 13.503	46 21 2.25	4	9007	1094	7847
11 15	7 26 3.2324	1	7 4 19.831	-12 35 35.38	4	9010	1603	7853
11 15	7 39 30.7524	1	8 51 55.056	39 55 39.67	4	9001	2602	6749
11 15	10 22 42.7517	1	4 38 31.384	36 28 27.48	4	9001	2605	6750
11 15	13 2 8.1550	1	6 10 34.764	19 51 53.54	4	9012	1924	2784
11 15	13 2 40.1551	1	6 7 57.882	23 11 .40	4	9012	1924	2785
11 15	21 28 34.7535	1	8 36 33.543	43 15 37.15	4	9008	5040	3579
11 15	21 28 50.7544	1	8 38 25.354	44 32 52.38	4	9008	5040	2602
11 16	0 16 26.7711	1	3 2 22.638	51 19 26.15	4	9008	5046	2603
11 16	0 17 30.7727	1	2 41 51.301	54 42 5.29	4	9008	5046	2604
11 16	5 26 58.7314	1	8 40 3.870	10 23 37.48	4	9007	1113	1225
11 16	5 27 14.7311	1	8 39 25.168	11 24 33.59	4	9007	1113	1226
11 16	5 46 58.7680	1	3 11 56.176	25 20 30.98	4	9004	1269	2745
11 16	5 47 14.7679	1	3 9 37.052	26 9 20.56	4	9004	1269	2746
11 16	8 6 2.7426	1	5 36 31.493	-25 6 19.26	4	9007	1116	1227
11 16	8 6 26.7424	1	5 35 30.344	-22 42 12.50	4	9007	1116	1228
11 16	8 8 10.7424	1	5 31 3.091	-12 17 39.66	4	9007	1117	1229
11 16	8 8 34.7418	1	5 30 .570	- 9 55 5.91	4	9007	1117	1230
11 16	8 15 54.7317	1	5 7 44.710	27 30 8.45	4	9007	1118	1231
11 16	8 16 26.7315	1	5 5 45.770	29 39 48.62	4	9007	1118	1232
11 16	8 35 30.7535	1	3 3 48.147	64 6 24.28	4	9010	1619	650
11 16	8 36 26.7545	1	2 36 35.554	66 38 39.09	4	9010	1619	651
11 16	14 6 10.7393	1	8 59 40.704	30 3 49.06	4	9005	9183	558
11 16	16 55 53.0475	1	5 48 44.430	73 43 54.33	4	9005	9184	559
11 16	16 56 9.0481	1	5 43 38.056	75 0 11.14	4	9005	9184	560
11 16	19 24 58.7505	1	8 12 30.805	- 9 12 3.41	4	9006	9489	1337
11 16	19 25 14.7512	1	8 12 26.659	- 8 13 31.38	4	9006	9489	1338
11 16	19 25 54.7422	1	4 22 4.815	-10 54 56.42	4	9005	9191	562
11 16	19 26 26.7412	1	4 20 3.762	- 9 5 55.10	4	9005	9191	561
11 16	19 37 54.7490	1	8 49 .246	49 7 50.49	4	9006	9490	1339
11 16	19 37 54.8036	1	3 4 9.200	31 24 11.30	4	9005	9193	563
11 16	19 38 2.7492	1	8 50 13.669	49 44 49.66	4	9006	9490	1340
11 16	19 38 2.7594	1	9 13 42.293	32 11 20.52	4	9008	5055	2880
11 16	19 38 26.7597	1	9 16 21.466	33 27 50.56	4	9008	5055	2881
11 16	19 38 42.8031	1	2 55 27.954	33 54 26.53	4	9005	9193	711
11 16	19 40 26.7461	1	9 20 5.177	60 12 21.90	4	9006	9491	1341
11 16	19 40 34.7461	1	9 22 18.670	60 44 35.95	4	9006	9491	1342

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.	OBS. NO.
1963 11 16	19 42 42.7495	1	10 10 17.717	68 27 41.21	9006	9492	1343
11 16	19 42 42.7677	1	9 55 42.264	46 31 29.41	9008	5056	2882
11 16	19 42 58.7499	1	10 18 21.755	69 17 10.97	9006	9492	1344
11 16	22 7 22.7547	1	5 22 33.341	-26 19 2.72	9006	9496	1345
11 16	22 7 38.7556	1	5 21 37.325	-25 18 1.07	9006	9496	1346
11 16	22 8 34.7362	1	5 18 13.362	-21 37 42.51	9006	9497	1347
11 16	22 8 58.7369	1	5 16 42.420	-20 0 9.58	9006	9497	1348
11 16	22 11 46.7508	1	5 4 49.881	-7 44 18.27	9006	9498	1349
11 16	22 12 2.7512	1	5 3 33.738	-6 29 37.69	9006	9498	1350
11 17	1 10 10.7494	1	8 31 22.642	40 38 34.59	9004	1277	2747
11 17	1 10 10.7665	1	2 45 18.355	39 19 10.25	9008	5062	2883
11 17	1 10 18.7494	1	8 32 19.755	41 17 59.10	9004	1277	2748
11 17	1 16 19.4732	1	10 8 43.586	67 42 30.54	9004	1278	2749
11 17	1 16 27.4733	1	10 13 5.562	68 9 6.49	9004	1278	2750
11 17	4 1 2.1430	1	2 2 45.207	61 3 2.49	9004	1280	2751
11 17	4 1 10.1430	1	1 58 50.345	61 20 59.12	9004	1280	2752
11 17	6 15 38.7430	1	8 23 12.905	-13 30 8.13	9007	1134	1233
11 17	6 16 10.7417	1	8 20 15.400	-10 54 31.33	9007	1134	1234
11 17	6 17 46.7356	1	7 23 45.598	16 22 45.98	9011	1376	9665
11 17	6 17 54.7354	1	7 23 13.457	16 56 2.39	9011	1376	9666
11 17	6 18 18.7416	1	8 9 41.376	-0 22 48.94	9007	1135	1235
11 17	6 18 42.7415	1	8 7 54.716	1 35 52.82	9007	1135	1236
11 17	6 23 14.7497	1	7 42 37.078	-17 32 14.28	9009	9516	32
11 17	6 23 22.7489	1	7 42 10.496	-16 54 4.48	9009	9516	33
11 17	6 26 18.7504	1	7 33 22.468	-1 43 5.57	9009	9517	34
11 17	6 26 26.7153	1	8 1 43.288	-17 43 33.78	9010	1620	652
11 17	6 26 58.7159	1	8 1 1.150	-15 46 1.47	9010	1620	653
11 17	6 27 6.7356	1	7 41 28.421	38 57 48.38	9007	1136	1237
11 17	6 27 14.7357	1	7 41 11.036	39 27 50.69	9007	1136	1238
11 17	6 42 26.7474	1	8 31 34.403	59 34 59.00	9010	1621	654
11 17	6 42 58.7479	1	8 37 24.916	62 1 56.40	9010	1621	655
11 17	9 3 58.7506	1	4 11 34.557	-33 44 25.18	9009	9520	9752
11 17	9 8 46.7530	1	4 6 17.994	-15 31 12.77	9009	9521	9753
11 17	15 5 32.0425	1	9 57 6.816	59 12 34.84	9005	9205	1483
11 17	15 5 48.0426	1	10 2 51.698	60 8 17.54	9005	9205	1484
11 17	17 51 3.0095	1	2 17 32.695	67 35 15.35	9005	9208	1485
11 17	17 51 51.0100	1	1 45 26.324	69 13 19.35	9005	9208	1486
11 17	20 32 58.7573	1	7 20 13.964	64 56 8.51	9006	9507	1678
11 17	20 33 22.7580	1	7 21 11.819	66 56 48.95	9006	9507	1679
11 17	20 37 30.7527	1	8 21 15.671	85 2 30.84	9006	9508	8783
11 17	20 37 54.7532	1	8 55 35.245	86 27 7.61	9006	9508	8784
11 17	23 1 30.7435	1	6 25 45.385	-27 44 53.65	9008	5069	2884
11 17	23 1 54.7417	1	4 32 30.262	-21 4 13.20	9006	9513	8785
11 17	23 1 54.7437	1	6 24 24.310	-26 13 26.82	9008	5069	2885
11 17	23 2 2.7417	1	4 32 7.037	-20 36 8.48	9006	9513	8786

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.	OBS. NO.
1963 11 17	23 4 50.7483	1	6 14 6.624	-13 47 1.66	9008	5070	4189
11 17	23 5 14.7106	1	4 21 13.400	-8 51 31.47	9006	9514	8787
11 17	23 5 30.7483	1	6 11 37.104	-10 37 35.34	9008	5070	2887
11 17	23 21 52.8419	1	2 42 17.438	72 48 42.76	9008	5071	2888
11 17	23 22 24.8421	1	2 17 15.302	73 57 53.24	9008	5071	2889
11 18	2 10 55.4408	1	8 46 11.133	83 49 41.02	9004	1285	2753
11 18	2 11 3.4411	1	8 56 42.461	84 20 23.57	9004	1285	2754
11 18	7 2 50.7445	1	6 53 25.919	-31 34 16.71	9011	1383	9667
11 18	7 3 6.7440	1	6 51 46.360	-29 57 12.76	9011	1383	9668
11 18	7 13 30.7499	1	6 29 52.282	-37 44 9.62	9009	9531	9754
11 18	7 13 34.7495	1	6 29 34.660	-37 27 18.06	9009	9531	9755
11 18	7 18 46.7518	1	6 7 31.376	-11 34 56.27	9009	9532	9756
11 18	7 19 34.7521	1	6 4 3.344	-6 57 31.53	9009	9532	9757
11 18	7 21 18.7512	1	5 56 12.337	3 26 25.46	9009	9533	9758
11 18	7 22 14.7522	1	5 51 42.893	9 9 21.85	9009	9533	9759
11 18	7 37 30.7447	1	9 6 28.086	48 15 .64	9001	2635	6751
11 18	7 38 10.7449	1	9 14 4.552	51 6 31.90	9001	2635	6752
11 18	12 48 47.3454	1	6 42 48.052	-31 40 36.18	9012	1953	2786
11 18	12 49 35.3452	1	6 39 45.186	-28 22 50.96	9012	1953	2787
11 18	18 42 42.7558	1	9 40 7.407	49 8 47.98	9006	9527	9136
11 18	18 42 58.7563	1	9 43 29.792	50 5 16.13	9006	9527	9137
11 18	18 45 30.7551	1	10 24 18.263	58 15 9.19	9006	9528	9138
11 18	18 45 46.7550	1	10 29 40.520	59 0 35.88	9006	9528	9139
11 18	21 9 33.2763	1	6 28 26.827	-27 46 57.97	9006	9529	9140
11 18	21 9 49.2764	1	6 27 33.014	-26 46 1.39	9006	9529	9141
11 18	21 28 2.7599	1	3 54 42.238	67 24 53.24	9006	9530	8444
11 18	21 28 2.7659	1	9 4 23.626	58 54 44.35	9008	5087	8440
11 18	21 28 10.7602	1	3 50 50.521	67 53 44.87	9006	9530	8445
11 18	21 28 10.7663	1	9 6 17.789	59 29 19.47	9008	5087	8441
11 18	21 28 18.7605	1	3 46 51.993	68 21 59.45	9006	9530	8446
11 18	21 28 18.7665	1	9 8 15.560	60 3 38.70	9008	5087	8442
11 18	21 28 26.7606	1	3 42 43.137	68 49 33.59	9006	9530	8447
11 18	21 28 26.7670	1	9 10 17.953	60 37 38.80	9008	5087	8443
11 18	21 30 50.7633	1	2 1 7.986	75 1 32.29	9006	9531	9142
11 18	21 31 38.7640	1	1 16 8.092	76 2 4.02	9006	9531	9143
11 18	23 54 2.7511	1	5 22 19.367	-31 48 9.25	9008	5092	2828
11 18	23 54 18.7512	1	5 21 29.252	-30 52 15.25	9008	5092	2829
11 19	0 14 10.7630	1	9 9 36.539	59 59 31.87	9004	1307	2798
11 19	0 14 10.7766	1	2 34 43.669	54 21 15.12	9008	5093	2802
11 19	0 14 18.7770	1	2 32 .644	54 43 18.73	9008	5093	2803
11 19	0 17 14.7593	1	9 46 28.185	51 38 52.82	9004	1308	8428
11 19	0 17 14.7824	1	1 23 23.303	60 54 44.25	9008	5094	8434
11 19	0 17 22.7592	1	9 48 33.798	52 7 15.30	9004	1308	8429
11 19	0 17 22.7825	1	1 19 55.624	61 6 20.53	9008	5094	8435
11 19	0 17 30.7594	1	9 50 42.862	52 35 18.71	9004	1308	8430

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.	OBS.NO.
1963 11 19	0 17 30.7826	1	1 16 26.268	61 17 26.50	4	9008	5094	05 8436
11 19	0 17 38.7593	1	9 52 54.773	53 3 10.46	4	9004	1308	06 8431
11 19	0 17 38.7825	1	1 12 55.587	61 28 1.16	4	9008	5094	06 8437
11 19	0 17 46.7591	1	9 55 9.556	53 30 48.20	4	9004	1308	07 8432
11 19	0 17 46.7825	1	1 9 23.986	61 38 15.44	4	9008	5094	07 8438
11 19	0 17 54.7593	1	9 57 27.804	53 58 6.11	4	9004	1308	08 8433
11 19	0 17 54.7827	1	1 5 51.677	61 47 56.82	4	9008	5094	08 8439
11 19	5 23 14.7303	1	8 40 7.268	10 20 51.68	4	9007	1174	05 1239
11 19	8 2 26.7518	10	5 29 24.143	-24 25 19.02	4	9007	1177	03 9152
11 19	8 2 50.7512	10	5 28 33.511	-22 2 40.34	4	9007	1177	06 9153
11 19	8 4 10.7498	1	5 25 39.622	-14 7 45.91	4	9007	1178	02 7524
11 19	8 4 10.8014	1	5 6 35.591	-47 47 18.88	4	9009	9548	13 7531
11 19	8 4 18.7496	1	5 25 21.731	-13 20 34.40	4	9007	1178	03 7525
11 19	8 4 18.8015	1	5 6 23.023	-47 18 43.93	4	9009	9548	15 7532
11 19	8 4 34.7490	1	5 24 45.586	-11 46 27.78	4	9007	1178	05 7526
11 19	8 4 34.8009	1	5 5 57.356	-46 20 57.36	4	9009	9548	19 7533
11 19	8 4 42.7487	1	5 24 27.331	-10 59 32.30	4	9007	1178	06 7527
11 19	8 4 42.8012	1	5 5 43.888	-45 51 46.96	4	9009	9548	21 7534
11 19	8 4 50.7481	1	5 24 9.005	-10 12 48.48	4	9007	1178	07 9296
11 19	8 4 50.8014	1	5 5 30.397	-45 22 26.82	4	9009	9548	23 7535
11 19	8 8 50.7440	1	5 13 57.307	11 38 19.22	4	9007	1179	04 7528
11 19	8 8 50.8024	1	4 57 5.221	-29 10 25.16	4	9009	9549	12 7536
11 19	8 8 58.7441	1	5 13 34.363	12 18 3.05	4	9007	1179	05 7529
11 19	8 8 58.8028	1	4 56 45.016	-28 34 56.82	4	9009	9549	14 7537
11 19	8 9 6.7436	1	5 13 11.417	12 57 33.97	4	9007	1179	06 7530
11 19	8 9 6.8030	1	4 56 24.337	-27 59 17.53	4	9009	9549	16 7538
11 19	8 12 50.7289	1	5 1 1.652	29 24 46.91	4	9007	1180	02 2801
11 19	8 13 30.7392	1	5 52 46.363	-26 4 7.88	4	9010	1639	06 2808
11 19	8 13 46.7393	1	5 51 47.335	-24 58 53.47	4	9010	1639	08 2809
11 19	8 15 54.7427	1	5 43 28.607	-15 39 41.41	4	9010	1640	03 2810
11 19	8 16 18.7429	1	5 41 48.933	-13 47 17.55	4	9010	1640	06 2811
11 19	11 0 2.7502	1	8 29 34.779	-12 42 11.00	4	9012	1978	03 2788
11 19	11 0 42.7501	1	8 28 55.667	-10 15 1.17	4	9012	1978	08 2789
11 19	11 19 6.7457	1	10 7 6.915	67 37 42.04	4	9012	1979	11 2790
11 19	11 19 14.7460	1	10 10 17.595	68 1 24.82	4	9012	1979	12 2791
11 19	13 43 4.7755	1	5 19 44.038	-29 26 34.77	4	9012	1983	02 2792
11 19	13 43 24.7752	1	5 18 37.518	-28 3 42.92	4	9012	1983	07 2793
11 19	19 37 14.7608	1	9 25 33.039	63 22 7.94	4	9006	9548	02 9511
11 19	19 37 14.7688	1	9 39 48.383	41 56 38.93	4	9008	5106	02 9523
11 19	19 37 22.7608	1	9 28 6.441	63 53 36.80	4	9006	9548	03 9512
11 19	19 37 22.7687	1	9 41 7.253	42 21 21.74	4	9008	5106	03 9524
11 19	19 37 30.7608	1	9 30 44.902	64 24 40.93	4	9006	9548	04 9513
11 19	19 37 30.7685	1	9 42 27.536	42 46 2.40	4	9008	5106	04 9516
11 19	19 37 38.7612	1	9 33 29.710	64 55 23.55	4	9006	9548	05 9514
11 19	19 37 38.7685	1	9 43 49.293	43 10 37.04	4	9008	5106	05 9526

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D N S	RMS S	STATION	FRAME NO.	OBS. NO.
1963 11 19	19 37 46.7612	1	9 36 20.582	65 25 41.85	4	9006	9548 06	9515
11 19	19 37 46.7687	1	9 45 12.878	43 35 .44	4	9008	5106 06	9527
11 19	19 37 54.7614	1	9 39 17.223	65 55 33.12	4	9006	9548 07	9516
11 19	19 37 54.7685	1	9 46 38.067	43 59 17.97	4	9008	5106 07	9528
11 19	19 38 2.7615	1	9 42 21.158	66 24 59.23	4	9006	9548 08	9517
11 19	19 38 2.7690	1	9 48 4.455	44 23 30.26	4	9008	5106 08	9529
11 19	19 38 10.7620	1	9 45 31.459	66 54 .10	4	9006	9548 09	9518
11 19	19 38 10.7690	1	9 49 32.860	44 47 32.55	4	9008	5106 09	9530
11 19	19 41 6.7641	1	11 34 8.293	75 4 34.89	4	9006	9549 05	9519
11 19	19 41 6.7700	1	10 29 30.096	52 56 21.45	4	9008	5106 01	8982
11 19	19 41 14.7643	1	11 41 8.466	75 18 10.86	4	9006	9549 06	9520
11 19	19 41 14.7699	1	10 31 42.193	53 16 14.04	4	9008	5106 02	8983
11 19	19 41 22.7644	1	11 48 18.365	75 30 50.19	4	9006	9549 07	9521
11 19	19 41 22.7698	1	10 33 56.759	53 35 51.36	4	9008	5106 03	8984
11 19	19 41 30.7646	1	11 55 35.787	75 42 28.74	4	9006	9549 08	9522
11 19	19 41 30.7701	1	10 36 14.170	53 55 15.40	4	9008	5106 04	8985
11 19	22 4 42.7364	1	5 15 27.647	-22 10 56.65	4	9006	9553 02	8151
11 19	22 4 42.7513	1	7 26 34.355	-22 20 59.87	4	9008	5107 02	8157
11 19	22 4 50.7365	1	5 14 58.173	-21 39 13.56	4	9006	9553 03	8152
11 19	22 4 50.7513	1	7 26 16.267	-21 51 .63	4	9008	5107 03	8158
11 19	22 4 58.7366	1	5 14 28.389	-21 7 13.34	4	9006	9553 04	8153
11 19	22 4 58.7514	1	7 25 58.256	-21 20 49.85	4	9008	5107 04	8159
11 19	22 5 6.7366	1	5 13 58.550	-20 35 7.00	4	9006	9553 05	8154
11 19	22 5 6.7517	1	7 25 40.276	-20 50 21.93	4	9008	5107 05	8160
11 19	22 5 14.7366	1	5 13 28.484	-20 2 44.75	4	9006	9553 06	8155
11 19	22 5 14.7518	1	7 25 22.619	-20 19 41.30	4	9008	5107 06	8161
11 19	22 5 22.7368	1	5 12 57.915	-19 30 8.54	4	9006	9553 07	8156
11 19	22 5 22.7521	1	7 25 4.917	-19 48 45.78	4	9008	5107 07	8162
11 20	1 9 22.7620	1	8 57 3.654	55 32 21.77	4	9004	1328 04	2755
11 20	1 9 30.7620	1	8 58 53.082	56 9 27.28	4	9004	1328 05	2756
11 20	6 6 34.2623	1	8 1 50.278	-20 9 36.15	4	9011	1398 04	9669
11 20	6 6 58.2623	1	7 58 48.103	-18 3 54.55	4	9011	1398 07	9670
11 20	6 15 6.7434	1	7 16 17.748	20 38 5.36	4	9011	1399 07	377
11 20	6 15 30.7435	1	7 14 48.345	22 12 59.27	4	9011	1399 10	378
11 20	6 17 54.7382	1	7 6 29.916	31 2 36.27	4	9011	1400 03	7416
11 20	6 17 54.7514	1	7 43 52.787	-25 36 54.05	4	9009	9564 06	8163
11 20	6 18 2.7380	1	7 6 3.929	31 30 6.48	4	9011	1400 04	7417
11 20	6 18 2.7502	1	7 43 21.933	-25 1 46.93	4	9009	9564 08	8164
11 20	6 18 10.7381	1	7 5 37.922	31 57 28.22	4	9011	1400 05	7418
11 20	6 18 10.7510	1	7 42 51.083	-24 26 15.48	4	9009	9564 10	8165
11 20	6 18 18.7380	1	7 5 12.174	32 24 37.43	4	9011	1400 06	7419
11 20	6 18 18.7506	1	7 42 20.851	-23 50 23.82	4	9009	9564 12	8166
11 20	6 18 26.7380	1	7 4 46.381	32 51 34.06	4	9011	1400 07	7420
11 20	6 18 26.7511	1	7 41 50.784	-23 14 20.04	4	9009	9564 14	8167
11 20	6 18 34.7380	1	7 4 20.740	33 18 21.81	4	9011	1400 08	7421

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.	OBS. NO.
1963 11 20	6 18 34.7512	1	7 41 20.919	-22 37 57.83	9009	9564	16
11 20	6 18 42.7511	1	7 40 51.280	-22 1 16.37	9009	9564	18
11 20	6 18 50.7381	1	7 3 30.469	34 11 25.44	9011	1400	10
11 20	6 18 50.7508	1	7 40 21.875	-21 24 11.21	9009	9564	20
11 20	6 22 42.7338	1	8 0 1.711	-18 21 1.08	9010	1661	03
11 20	6 22 42.7534	1	7 27 45.010	- 1 25 56.18	9009	9565	09
11 20	6 22 58.7337	1	7 59 37.264	-17 21 57.79	9010	1661	05
11 20	6 22 58.7536	1	7 26 58.349	0 4 38.01	9009	9565	13
11 20	6 23 14.7338	1	7 59 13.976	-16 22 .23	9010	1661	07
11 20	6 23 14.7537	1	7 26 12.159	1 35 57.38	9009	9565	17
11 20	6 43 14.7542	1	10 9 13.291	78 24 34.94	9010	1662	05
11 20	9 5 54.7381	1	4 55 16.012	-29 14 18.61	9010	1667	02
11 20	9 5 54.7700	1	4 4 22.911	-12 4 23.55	9009	9567	04
11 20	9 6 2.7383	1	4 54 53.976	-28 45 56.42	9010	1667	03
11 20	9 6 2.7706	1	4 4 6.654	-11 33 7.85	9009	9567	05
11 20	9 6 10.7381	1	4 54 31.631	-28 17 19.63	9010	1667	04
11 20	9 6 10.7706	1	4 3 50.149	-11 1 53.04	9009	9567	06
11 20	9 6 18.7381	1	4 54 9.080	-27 48 34.20	9010	1667	05
11 20	9 6 18.7706	1	4 3 33.219	-10 30 34.40	9009	9567	07
11 20	9 6 26.7382	1	4 53 46.386	-27 19 42.70	9010	1667	06
11 20	9 6 26.7702	1	4 3 15.937	- 9 59 15.00	9009	9567	08
11 20	9 9 22.7680	1	3 55 28.010	1 30 1.49	9009	9568	03
11 20	9 9 30.7684	1	3 55 2.616	2 1 4.90	9009	9568	04
11 20	20 32 26.7686	1	10 1 57.792	55 29 49.38	9008	5121	04
11 20	20 32 50.7690	1	10 8 50.799	56 47 52.55	9008	5121	07
11 20	23 18 50.7788	1	2 7 29.496	72 39 48.98	9008	5123	06
11 20	23 19 14.7794	1	1 48 37.490	73 19 5.85	9008	5123	09
11 21	6 58 34.3476	1	6 49 36.749	-35 27 39.09	9011	1427	05
11 21	6 58 58.3470	1	6 47 10.911	-33 1 22.78	9011	1427	08
11 21	7 4 34.7557	1	7 6 51.320	-25 53 35.80	9007	1224	11
11 21	7 4 42.7556	1	7 6 2.816	-25 6 7.62	9007	1224	12
11 21	7 7 54.7478	1	6 11 32.914	15 46 57.21	9011	1428	03
11 21	7 8 50.7500	1	6 44 43.897	- 0 4 2.81	9007	1225	08
11 21	7 9 6.7495	1	6 43 31.936	1 30 35.65	9007	1225	10
11 21	7 9 22.7681	1	6 7 5.391	21 50 16.15	9011	1428	14
11 21	7 10 42.7653	1	6 3 4.688	26 52 15.64	9011	1428	24
11 21	7 15 10.7560	1	6 0 15.193	-11 12 7.90	9009	9578	08
11 21	7 15 38.7562	1	5 58 13.513	- 8 31 27.19	9009	9578	15
11 21	12 44 6.2520	1	6 40 48.883	-35 48 25.56	9012	2018	03
11 21	12 44 30.2519	1	6 39 15.106	-34 16 31.12	9012	2018	06
11 22	0 12 50.7629	1	9 37 36.871	49 59 12.08	9004	1365	11
11 22	3 2 12.9974	1	0 28 38.171	76 9 13.72	9004	1366	03
11 22	3 2 28.9974	1	0 11 36.669	76 8 49.07	9004	1366	04
11 22	5 8 2.7507	1	8 54 23.987	-19 33 3.96	9011	1440	13
11 22	5 18 42.7455	1	8 0 59.636	23 0 56.16	9011	1442	07

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.	OBS. NO.
1963 11 22	5 18 42.7515	1	8 40 35.367	-26 4 46.30	9009	9590	8482
11 22	5 18 50.7455	1	8 0 35.320	23 28 47.42	9011	1442	8490
11 22	5 18 50.7520	1	8 40 9.741	-25 37 9.77	9009	9590	8493
11 22	5 18 58.7455	1	8 0 11.019	23 56 34.23	9011	1442	8491
11 22	5 18 58.7521	1	8 39 44.550	-25 9 22.42	9009	9590	8483
11 22	5 19 6.7454	1	7 59 47.272	24 24 6.85	9011	1442	8492
11 22	5 19 6.7516	1	8 39 19.479	-24 41 21.65	9009	9590	8484
11 22	5 19 14.7456	1	7 59 23.700	24 51 34.93	9011	1442	8493
11 22	5 19 14.7517	1	8 38 55.004	-24 13 10.77	9009	9590	8485
11 22	5 19 22.7454	1	7 59 .291	25 18 52.06	9011	1442	8494
11 22	5 19 22.7521	1	8 38 31.107	-23 44 44.77	9009	9590	8486
11 22	5 19 30.7457	1	7 58 36.989	25 46 3.74	9011	1442	8495
11 22	5 19 30.7522	1	8 38 7.333	-23 16 10.36	9009	9590	8487
11 22	5 19 38.7457	1	7 58 14.045	26 13 3.08	9011	1442	8496
11 22	5 19 38.7523	1	8 37 43.836	-22 47 24.97	9009	9590	8488
11 22	5 23 30.7569	1	8 28 51.943	- 7 27 2.60	9009	9591	1429
11 22	5 23 54.7572	1	8 28 12.840	- 5 42 35.52	9009	9591	1430
11 22	7 52 17.8383	1	5 12 31.323	-34 30 35.63	9011	1450	9241
11 22	7 52 57.8360	1	5 13 12.300	-30 40 22.70	9011	1450	9242
11 22	8 1 14.7408	1	5 10 30.062	10 56 21.10	9011	1451	7280
11 22	8 1 14.7570	1	5 0 18.915	-44 30 58.75	9009	9592	7271
11 22	8 1 22.7407	1	5 10 20.349	11 28 46.97	9011	1451	7281
11 22	8 1 30.7405	1	5 10 10.172	12 0 57.11	9011	1451	7282
11 22	8 1 30.7561	1	4 59 55.605	-43 31 44.98	9009	9592	7272
11 22	8 5 22.7569	1	4 52 28.660	-27 47 48.60	9009	9593	1431
11 22	8 5 30.7575	1	4 52 9.310	-27 12 27.73	9009	9593	1432
11 22	8 7 54.7330	1	5 54 51.500	-33 19 28.47	9010	1684	1433
11 22	8 7 54.7577	1	4 45 36.070	-16 9 15.67	9009	9594	7256
11 22	8 8 2.7331	1	5 54 23.993	-32 50 25.18	9010	1684	7273
11 22	8 8 2.7577	1	4 45 11.529	-15 31 5.53	9009	9594	7257
11 22	8 8 10.7331	1	5 53 56.365	-32 21 7.04	9010	1684	7274
11 22	8 8 10.7582	1	4 44 46.790	-14 52 46.49	9009	9594	7258
11 22	8 8 18.7332	1	5 53 28.617	-31 51 37.50	9010	1684	7275
11 22	8 8 18.7582	1	4 44 21.770	-14 14 23.47	9009	9594	7259
11 22	8 8 26.7331	1	5 53 .669	-31 21 52.71	9010	1684	7276
11 22	8 8 26.7586	1	4 43 56.114	-13 35 47.83	9009	9594	7260
11 22	8 8 34.7331	1	5 52 32.704	-30 51 55.60	9010	9594	7277
11 22	8 8 34.7585	1	4 43 30.414	-12 57 12.23	9009	9594	7261
11 22	8 8 42.7332	1	5 52 4.654	-30 21 41.30	9010	1684	7278
11 22	8 8 42.7582	1	4 43 4.197	-12 18 25.10	9009	9594	7262
11 22	11 16 50.9154	1	1 59 21.339	50 45 52.47	9001	2669	7279
11 22	11 16 58.7508	1	10 52 .170	73 4 14.32	9012	2039	1178
11 22	11 17 6.7463	1	1 54 25.114	51 19 24.02	9001	2669	2814
11 22	11 17 6.7501	1	10 56 53.186	73 22 18.80	9012	2039	2796
11 22	11 17 14.7501	1	11 1 54.683	73 39 43.51	9012	2039	1185
11 22							1186

CATL 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.	OBS.NO.
1963 11 22	11 17 22.7168	1	1 49 24.027	51 51 27.31	4	9001	2669	2797
11 22	11 17 22.7503	1	11 7 4.931	73 56 28.42	4	9012	2039	1187
11 22	11 17 30.7503	1	11 12 25.741	74 12 47.85	4	9012	2039	1188
11 22	11 17 38.7510	1	11 17 55.277	74 28 20.17	4	9012	2039	2815
11 22	11 17 38.9162	1	1 44 17.547	52 22 9.40	4	9001	2669	1179
11 22	19 36 2.7790	1	10 31 23.874	73 15 17.53	4	9006	9576	9144
11 22	19 36 18.7795	1	10 42 27.776	73 58 56.37	4	9006	9576	9145
11 22	22 22 10.7794	1	1 14 24.084	60 44 21.69	4	9006	9580	9146
11 22	22 22 42.7794	1	1 0 45.558	61 21 39.23	4	9006	9580	9147
11 23	6 2 26.1652	1	8 1 20.745	-23 6 57.67	4	9011	1456	38
11 23	6 7 6.7503	1	8 24 12.007	-20 20 57.16	4	9007	1245	30
11 23	6 11 14.7407	1	7 13 15.657	19 59 27.66	4	9011	1457	11
11 23	6 11 30.7407	1	7 12 15.328	21 4 .38	4	9011	1457	13
11 23	6 39 46.7526	1	10 10 59.026	80 23 43.91	4	9010	1704	06
11 23	6 39 46.7528	1	10 7 10.423	52 54 59.99	4	9001	2682	03
11 23	6 40 2.7534	1	10 11 32.882	53 45 15.99	4	9001	2682	04
11 23	6 40 2.7536	1	10 28 49.548	81 6 32.04	4	9010	1704	07
11 23	6 40 18.7540	1	10 16 6.934	54 34 22.75	4	9001	2682	05
11 23	6 40 18.7550	1	10 49 22.129	81 44 57.32	4	9010	1704	08
11 23	20 29 54.7746	1	6 1 40.438	84 56 52.98	4	9006	9599	04
11 23	20 30 18.7749	1	5 37 2.034	86 25 42.24	4	9006	9599	07
11 24	6 54 41.8470	1	6 42 48.514	-36 51 55.05	4	9011	1488	04
11 24	6 55 13.8461	1	6 39 52.838	-33 35 38.55	4	9011	1488	08
11 24	6 58 50.7525	1	7 12 13.463	-38 7 6.20	4	9007	1268	06
11 24	6 59 22.7519	1	7 8 30.857	-35 7 52.47	4	9007	1268	10
11 24	7 4 18.7450	1	6 6 51.801	15 57 18.16	4	9011	1489	03
11 24	7 4 18.7483	1	6 41 38.216	-5 20 50.80	4	9007	1269	03
11 24	7 4 38.7739	1	6 21 36.682	-43 58 2.98	4	9009	9614	08
11 24	7 4 46.7749	1	6 21 2.790	-43 27 1.02	4	9009	9614	10
11 24	7 5 6.7474	1	6 38 3.796	-0 31 17.21	4	9007	1269	09
11 24	7 5 30.7444	1	6 3 23.345	20 53 55.79	4	9011	1489	12
11 24	7 8 58.7447	1	6 22 1.585	20 50 .40	4	9007	1270	03
11 24	7 9 26.7767	1	6 2 3.002	-22 21 40.57	4	9009	9615	11
11 24	7 9 30.7442	1	6 19 52.817	23 27 11.99	4	9007	1270	07
11 24	7 9 34.7764	1	6 1 30.472	-21 40 13.44	4	9009	9615	13
11 25	7 56 50.7444	1	5 8 45.085	7 43 24.02	4	9011	1500	05
11 26	6 7 30.7442	1	7 9 31.702	19 51 42.45	4	9011	1503	07
11 26	6 8 18.7441	1	7 6 33.394	23 3 47.99	4	9011	1503	13
11 26	8 57 54.7455	1	4 14 38.807	17 4 45.54	4	9007	1287	04
11 26	8 58 2.7458	1	4 14 24.397	17 32 30.48	4	9007	1287	05
11 27	6 50 58.7678	1	6 34 53.313	-37 12 51.58	4	9011	1530	04
11 27	6 51 46.7664	1	6 31 8.458	-32 16 44.92	4	9011	1530	10
11 27	6 59 6.7601	1	6 6 42.757	8 58 10.19	4	9011	1531	06
11 27	6 59 46.7596	1	6 4 52.140	12 1 53.88	4	9011	1531	11
11 27	18 36 18.7724	1	11 21 27.684	66 16 53.26	4	9006	9654	03

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.	OBS. NO.
1963 11 27	18 36	26.7720	11 25 33.534	66 33 30.35	9006	9654	9311
11 27	18 36	28.5489	1 16 20.983	54 59 36.71	9005	9294	9308
11 27	18 36	34.7717	11 29 45.005	66 49 28.48	9006	9654	9312
11 27	18 36	42.7727	11 33 59.868	67 4 56.22	9006	9654	8789
11 27	18 36	44.5496	1 10 28.461	55 20 29.86	9005	9294	2799
11 27	18 36	50.7724	11 38 20.898	67 19 51.62	9006	9654	9313
11 27	18 36	58.7723	11 42 45.605	67 34 11.32	9006	9654	9314
11 27	18 37	54.86	1 4 32.928	55 39 46.45	9005	9294	9309
11 27	18 37	6.7727	11 47 14.509	67 47 52.71	9006	9654	9315
11 27	18 37	14.7728	11 51 47.533	68 0 59.36	9006	9654	9316
11 27	18 37	16.5489	0 58 35.394	55 57 28.98	9005	9294	2800
11 27	18 37	32.5481	0 52 34.818	56 13 39.84	9005	9294	9310
11 28	4 59	54.7505	8 59 26.153	-24 3 14.32	9011	1552	9777
11 28	5 0	34.7497	8 53 47.775	-21 10 40.20	9011	1552	9778
11 28	5 5	22.7588	9 6 45.085	-17 37 37.84	9007	1304	367
11 28	5 5	38.7583	9 5 15.813	-16 33 56.82	9007	1304	368
11 28	5 10	42.7415	7 59 37.201	21 17 49.73	9011	1553	9291
11 28	5 10	42.7566	8 40 14.647	-29 40 31.02	9009	9657	7248
11 28	5 10	50.7415	7 59 10.409	21 46 58.10	9011	1553	8031
11 28	5 10	50.7574	8 39 45.198	-29 12 58.82	9009	9657	7249
11 28	5 10	50.7583	8 42 25.369	5 7 55.05	9007	1305	8024
11 28	5 10	58.7415	7 58 43.418	22 16 1.28	9011	1553	9032
11 28	5 10	58.7567	8 39 15.741	-28 45 10.99	9009	9657	7250
11 28	5 10	58.7580	8 41 58.329	5 41 44.06	9007	1305	8025
11 28	5 11	6.7412	7 58 17.195	22 44 49.77	9011	1553	8033
11 28	5 11	6.7572	8 38 47.030	-28 17 12.21	9009	9657	7251
11 28	5 11	6.7581	8 41 31.634	6 15 34.93	9007	1305	8026
11 28	5 11	14.7410	7 57 51.003	23 13 35.25	9011	1553	9292
11 28	5 11	14.7575	8 38 18.626	-27 49 .51	9009	9657	7252
11 28	5 11	14.7581	8 41 5.538	6 49 23.48	9007	1305	8027
11 28	5 11	22.7411	7 57 25.354	23 42 7.26	9011	1553	8035
11 28	5 11	22.7566	8 37 50.686	-27 20 41.86	9009	9657	7253
11 28	5 11	22.7581	8 40 39.665	7 23 6.16	9007	1305	8028
11 28	5 11	30.7412	7 56 59.636	24 10 32.30	9011	1553	9293
11 28	5 11	30.7574	8 37 23.003	-26 52 3.74	9009	9657	7254
11 28	5 11	30.7579	8 40 13.958	7 56 52.16	9007	1305	8029
11 28	5 11	38.7410	7 56 34.151	24 38 50.82	9011	1553	9294
11 28	5 11	38.7573	8 36 55.710	-26 23 14.54	9009	9657	7255
11 28	7 48	42.7626	5 12 23.042	-38 32 9.35	9007	1312	369
11 28	7 48	58.7622	5 12 22.190	-37 4 54.62	9007	1312	370
11 28	7 54	26.7537	5 7 34.648	- 6 29 21.36	9007	1313	371
11 28	7 54	42.7530	5 7 9.567	- 5 2 46.34	9007	1313	372
11 28	7 58	58.7502	4 58 18.908	16 2 14.21	9007	1314	373
11 28	7 59	14.7501	4 57 37.448	17 12 41.29	9007	1314	374
11 28	19 30	26.7760	12 15 4.098	79 42 36.04	9006	9680	9150

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.	OBS.NO.
1963 11 28	19 30 58.7764	1	12 58 6.906	80 7 13.13	4	9006	9680	9151
11 29	5 56 28.4151	1	8 42 18.604	-37 29 31.08	4	9007	1328	375
11 29	5 56 44.4147	1	8 39 50.018	-36 17 51.77	4	9007	1328	376
11 30	6 50 47.5666	1	6 58 37.437	-42 40 29.61	4	9007	1348	1493
11 30	6 51 51.5649	1	6 51 55.780	-36 40 56.71	4	9007	1348	1494
12 1	4 56 16.9852	1	8 57 53.189	-24 31 20.95	4	9011	1570	3633
12 1	4 56 24.9850	1	8 56 42.745	-23 56 7.98	4	9011	1570	4824
12 4	4 51 39.3830	1	9 5 25.462	-29 26 22.84	4	9011	1581	2654
12 4	4 52 11.3827	1	9 0 13.955	-27 4 53.19	4	9011	1581	2655
12 4	7 35 57.0399	1	4 48 37.237	-41 1 19.66	4	9011	1591	2656
12 4	7 36 21.0392	1	4 50 21.325	-38 53 5.98	4	9011	1591	2657
12 4	7 40 12.9748	1	4 58 53.056	-43 9 7.46	4	9007	1374	1948
12 4	7 40 28.9743	1	4 59 18.425	-41 47 7.55	4	9007	1374	1949
12 5	0 25 51.7577	1	5 57 12.585	19 56 10.22	4	9002	5825	1896
12 5	0 25 59.7573	1	5 56 48.506	20 30 26.37	4	9002	5825	2444
12 5	5 45 38.4247	1	7 58 33.639	-37 3 51.94	4	9011	1607	4173
12 5	5 46 18.4240	1	7 52 16.376	-33 18 15.95	4	9011	1607	4174
12 5	5 49 6.6338	1	8 32 40.912	-39 28 18.81	4	9007	1390	1950
12 5	5 49 22.6338	1	8 30 9.295	-38 13 26.69	4	9007	1390	1951
12 5	8 34 26.3655	1	4 6 12.464	-33 18 12.71	4	9007	1393	2404
12 5	8 34 34.3655	1	4 6 42.166	-32 44 36.04	4	9007	1393	2405
12 6	6 38 36.5338	1	6 14 33.237	-45 9 10.99	4	9011	1630	2660
12 6	6 38 44.5337	1	6 14 10.966	-44 20 56.61	4	9011	1630	2661
12 7	4 46 53.3108	1	9 15 24.500	-35 0 45.76	4	9011	1650	2662
12 7	4 47 57.3094	1	9 3 49.789	-30 19 40.40	4	9011	1650	2663
12 7	7 31 38.2841	1	4 41 29.223	-43 29 42.17	4	9011	1654	2664
12 7	7 32 26.2829	1	4 45 39.969	-39 19 25.17	4	9011	1654	2665
12 8	0 21 11.6852	1	5 55 17.398	15 23 9.72	4	9002	5860	1899
12 8	0 21 19.6851	1	5 54 55.311	15 59 13.58	4	9002	5860	1900
12 8	16 56 40.4065	1	6 11 32.524	18 16 23.24	4	9003	7461	5590
12 8	16 56 48.4065	1	6 11 10.010	18 49 29.08	4	9003	7461	2398
12 9	6 38 15.2304	1	6 36 24.952	-50 47 30.82	4	9007	1407	1954
12 9	6 38 23.2302	1	6 35 42.888	-50 5 56.88	4	9007	1407	1955
12 9	23 22 34.5236	1	7 12 22.729	11 58 54.10	4	9002	5872	1901
12 9	23 22 58.5237	1	7 10 42.803	13 56 8.99	4	9002	5872	2445
12 10	15 59 20.4143	1	7 16 48.855	20 21 20.53	4	9003	7516	2399
12 10	15 59 24.4142	1	7 16 33.843	20 37 47.75	4	9003	7516	2400
12 11	5 34 54.3736	1	8 24 43.023	-55 51 57.83	4	9011	1709	2666
12 11	5 37 26.3701	1	7 51 43.783	-42 28 44.59	4	9011	1709	2667
12 11	16 52 54.8011	1	6 7 24.360	18 3 2.88	4	9003	7533	3631
12 11	16 53 2.8013	1	6 7 3.454	18 35 51.37	4	9003	7533	2402
12 12	3 48 23.6367	1	9 19 2.062	-17 21 5.68	4	9011	1735	785
12 12	3 48 47.6374	1	9 16 12.241	-15 48 32.85	4	9011	1735	786
12 12	6 29 51.9977	1	5 58 29.078	-51 49 20.67	4	9011	1739	787
12 12	6 30 39.9958	1	5 58 2.267	-47 8 11.49	4	9011	1739	788

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.	ORS. NO.
1963 12 12	23 1 23.4370	1	11 2 20.330	-71 38 6.17	9002	5892	13 1903
12 12	23 1 39.4358	1	10 51 38.199	-71 9 11.94	9002	5892	15 1904
12 12	23 15 20.7778	1	7 22 57.690	-6 39 55.66	9002	5893	05 1905
12 12	23 16 .7770	1	7 19 36.364	-2 52 8.89	9002	5893	10 1906
12 13	4 43 34.3124	1	9 26 6.147	-34 14 51.78	9007	1434	06 1956
12 13	4 43 42.3121	1	9 24 56.293	-33 43 43.86	9007	1434	07 1957
12 14	5 31 29.3743	1	8 9 37.795	-54 51 39.72	9011	1785	03 789
12 14	5 33 21.3722	1	7 46 48.637	-44 45 19.16	9011	1785	17 790
12 14	22 20 7.7617	1	8 17 21.801	6 52 51.26	9002	5921	07 1907
12 15	3 42 27.3384	1	9 36 53.261	-26 7 6.18	9011	1810	03 791
12 15	3 42 59.3382	1	9 32 12.604	-24 6 30.19	9011	1810	07 792
12 15	6 37 30.7807	1	5 37 16.218	-46 21 30.59	9009	9765	06 2650
12 15	6 38 34.7812	1	5 35 .548	-42 18 43.37	9009	9765	14 2651
12 15	23 13 54.6753	1	7 6 21.224	6 14 38.93	9002	5941	07 1908
12 15	23 14 10.6749	1	7 5 14.161	7 38 26.89	9002	5941	09 1909
12 16	15 50 13.7744	1	7 14 11.237	13 42 19.72	9003	7654	03 1998
12 16	15 50 29.3716	1	7 13 9.688	14 52 29.84	9003	7654	07 1999
12 17	5 28 22.1088	1	7 51 1.150	-51 58 50.35	9011	1834	03 793
12 17	5 29 26.1073	1	7 39 33.296	-46 0 14.43	9011	1834	11 794
12 17	5 30 58.7914	1	8 41 35.321	-56 44 43.92	9007	1488	04 2170
12 17	5 31 6.7919	1	8 39 40.932	-56 12 56.89	9007	1488	05 2171
12 17	5 39 54.7804	1	7 25 59.419	-9 28 22.56	9007	1489	04 2172
12 17	22 15 29.6797	1	8 18 18.588	2 52 16.32	9002	5980	08 1910
12 17	22 15 45.6794	1	8 16 59.268	4 9 23.75	9002	5980	10 1911
12 18	3 38 43.6410	1	9 36 48.223	-26 35 3.21	9011	1851	05 795
12 18	3 39 15.6409	1	9 32 1.896	-24 31 22.68	9011	1851	09 796
12 18	6 33 54.7763	1	5 50 11.443	-9 32 54.78	9007	1518	02 2173
12 18	6 34 2.7760	1	5 49 52.533	-8 46 2.89	9007	1518	03 2174
12 19	4 30 56.0756	1	9 16 5.721	-42 41 35.79	9011	1870	03 797
12 19	4 31 36.0750	1	9 7 16.871	-39 38 28.26	9011	1870	08 798
12 19	7 15 33.3616	1	4 24 .736	-44 43 37.77	9011	1877	03 799
12 19	7 15 57.3614	1	4 27 9.048	-42 50 31.86	9011	1877	06 800
12 20	5 23 59.0560	1	7 47 54.856	-55 42 47.49	9011	1894	05 801
12 20	5 24 23.0555	1	7 43 9.241	-53 32 37.24	9011	1894	08 802
12 20	5 28 18.7879	1	8 17 46.329	-52 55 22.42	9007	1567	06 2175
12 20	5 28 26.7877	1	8 16 12.649	-52 19 38.32	9007	1567	07 2176
12 20	5 36 2.7826	1	7 19 33.998	-10 8 2.26	9007	1568	03 2177
12 20	5 36 10.7823	1	7 18 53.893	-9 19 13.98	9007	1568	04 2178
12 20	16 38 35.0098	1	6 2 13.710	4 9 47.37	9003	7757	03 2000
12 20	16 39 15.0096	1	6 0 55.976	7 19 9.70	9003	7757	08 2001
12 21	3 34 23.3618	1	9 42 13.505	-29 24 15.49	9011	1918	03 803
12 21	3 34 39.3615	1	9 39 36.838	-28 22 28.94	9011	1918	05 804
12 21	6 17 31.6475	1	5 29 51.966	-55 23 37.02	9011	1924	05 3442
12 21	6 17 55.6469	1	5 31 26.060	-53 11 16.57	9011	1924	08 3443
12 21	6 21 48.0693	1	5 57 15.350	-56 10 21.06	9007	1596	08 2179

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.	ORS.NO.
1963 12 21	6 21 56.0690	1	5 57 7.750	-55 31 17.44	4	9007	1596	09
12 21	23 1 20.9225	1	7 18 .651	-22 58 30.42	4	9002	6033	03
12 21	23 1 36.9222	1	7 16 31.883	-21 20 13.38	4	9002	6033	05
12 21	4 26 5.9775	1	9 27 54.051	-48 17 49.45	4	9011	1950	05
12 22	4 26 37.9767	1	9 19 33.756	-45 59 2.69	4	9011	1950	09
12 22	7 12 13.1211	1	4 26 14.245	-41 39 20.02	4	9011	1959	03
12 22	7 12 37.1207	1	4 29 7.323	-39 47 40.79	4	9011	1959	06
12 23	5 20 22.7084	1	7 34 36.708	-55 4 14.11	4	9011	1978	03
12 23	5 20 38.7080	1	7 31 51.346	-53 35 16.85	4	9011	1978	05
12 23	5 23 57.4827	1	8 14 43.134	-56 7 36.84	4	9007	1609	07
12 23	5 24 5.4827	1	8 13 4.271	-55 32 43.86	4	9007	1609	08
12 23	16 35 53.8074	1	5 56 24.837	9 9 3.06	4	9003	7824	07
12 23	16 36 1.8074	1	5 56 10.474	9 44 34.24	4	9003	7824	08
12 23	22 7 57.5418	1	8 10 49.399	3 4 17.49	4	9002	6067	04
12 23	22 8 5.5413	1	8 10 9.465	3 44 12.62	4	9002	6067	05
12 24	3 29 55.3162	1	9 49 14.475	-32 45 56.21	4	9011	1998	05
12 24	3 30 11.3158	1	9 46 22.739	-31 44 33.14	4	9011	1998	07
12 24	6 13 22.9860	1	5 19 58.121	-56 24 52.33	4	9011	2005	04
12 24	6 13 54.9858	1	5 22 52.460	-53 32 16.08	4	9011	2005	08
12 25	15 35 48.5557	1	7 12 10.340	- 1 33 18.82	4	9003	7844	04
12 25	15 36 4.5553	1	7 11 2.622	- 0 7 33.71	4	9003	7844	06
12 25	23 55 12.5334	1	5 37 16.223	- 1 30 5.68	4	9002	6093	03
12 25	23 55 28.5337	1	5 36 59.629	- 0 10 19.65	4	9002	6093	05
12 26	5 20 56.4190	1	7 55 19.941	-53 13 54.07	4	9007	1683	08
12 26	5 21 4.4188	1	7 53 58.271	-52 36 5.56	4	9007	1683	09
12 27	3 26 46.1663	1	9 42 5.556	-31 3 19.25	4	9011	2024	02
12 27	3 27 10.1664	1	9 37 59.389	-29 26 1.44	4	9011	2024	05
12 27	6 10 14.9534	1	5 16 44.819	-51 56 31.19	4	9011	2034	02
12 27	6 11 2.9522	1	5 20 46.679	-47 34 34.80	4	9011	2034	08
12 27	22 56 45.0937	1	6 51 11.790	- 5 5 49.37	4	9002	6122	02
12 27	22 56 53.0946	1	6 50 41.645	- 4 19 36.89	4	9002	6122	03
12 28	4 19 5.1895	1	9 9 14.447	-47 49 4.15	4	9011	2055	06
12 28	4 19 21.1892	1	9 5 15.931	-46 33 41.47	4	9011	2055	08
12 28	7 4 22.1076	1	4 22 53.737	-41 0 38.39	4	9011	2065	04
12 28	7 4 38.1073	1	4 24 57.563	-39 49 38.59	4	9011	2065	06
12 29	5 12 15.0795	1	7 16 11.033	-58 24 14.57	4	9011	2091	06
12 29	5 12 23.0793	1	7 15 3.239	-57 39 58.25	4	9011	2091	07
12 30	3 21 58.7874	1	9 52 37.279	-35 51 4.67	4	9011	2113	04
12 30	3 22 14.7873	1	9 49 29.488	-34 48 1.72	4	9011	2113	06
12 30	6 5 36.6524	1	5 4 44.571	-55 25 26.50	4	9011	2120	03
12 30	6 5 44.6522	1	5 5 48.046	-54 44 5.76	4	9011	2120	04

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.	ORIS. NO.
1963 10 1	7 26 29.1681	1	8 26 33.729	-38 4 50.63	9007	375	5378
10 1	7 26 33.1680	1	8 27 10.360	-37 15 36.94	9007	375	5840
10 1	17 57 40.3973	1	6 8 1.395	10 0 21.10	9003	6196	4626
10 1	17 57 52.3971	1	6 15 56.481	11 46 6.41	9003	6196	4627
10 2	1 51 9.8201	1	3 21 43.274	- 8 33 21.13	9002	4925	5825
10 2	1 51 13.8200	1	3 27 9.865	- 7 28 56.46	9002	4925	5826
10 3	1 32 5.9844	1	5 37 30.649	11 22 30.28	9002	4949	5253
10 3	1 32 9.9847	1	5 41 11.583	12 9 44.66	9002	4949	5827
10 4	14 3 19.3427	1	22 13 48.116	-78 28 21.13	9003	6268	4628
10 5	8 49 33.9226	1	5 57 15.781	37 41 42.09	9007	465	5553
10 5	13 42 54.0628	1	0 11 25.290	-78 52 34.82	9003	6285	5289
10 5	13 43 6.0624	1	0 46 58.735	-78 42 47.38	9003	6285	5290
10 6	13 23 37.3669	1	3 33 12.520	-70 3 43.20	9003	6305	5291
10 6	13 23 45.3668	1	3 41 38.768	-69 9 56.93	9003	6305	5292
10 6	21 16 41.2152	1	20 37 5.744	-82 39 13.27	9002	5041	5255
10 6	21 16 57.2151	1	21 22 11.273	-84 5 18.46	9002	5041	5256
10 7	20 57 14.0714	10	3 34 57.640	-81 34 14.89	9002	5071	5258
10 8	9 48 45.5336	1	21 6 36.971	-44 50 5.87	9003	6332	5293
10 8	9 48 53.5337	1	21 10 20.367	-45 7 17.22	9003	6332	5294
10 9	12 23 25.8253	1	4 16 41.328	-49 50 48.67	9003	6360	5295
10 9	12 23 41.8247	1	4 22 3.307	-48 17 1.27	9003	6360	5296
10 9	15 1 26.4871	1	19 55 45.455	-53 4 58.41	9003	6366	5297
10 9	15 1 34.4871	1	19 58 46.311	-53 35 36.66	9003	6366	7121
10 9	15 28 28.8882	1	4 38 16.160	-22 7 14.79	9012	1494	1716
10 9	15 28 30.8881	1	4 39 52.394	-21 47 51.43	9012	1494	1717
10 9	23 25 51.1496	1	8 54 25.634	- 3 23 10.71	9006	8860	6059
10 9	23 26 3.1495	1	9 1 40.376	- 1 37 32.18	9006	8860	6060
10 10	15 10 54.6126	1	7 55 33.848	14 30 43.39	9012	1507	1718
10 10	15 10 56.6127	1	7 57 27.137	14 54 22.14	9012	1507	1719
10 10	23 4 58.6021	1	8 51 46.625	- 7 6 54.73	9006	8876	6061
10 10	23 5 22.6015	1	9 5 21.740	- 3 39 14.15	9006	8876	7123
10 11	9 34 3.5917	1	4 48 5.749	43 19 4.67	9009	9212	6063
10 11	9 34 7.5907	1	4 52 38.488	44 14 31.38	9009	9212	6064
10 11	12 12 58.7412	1	5 52 58.488	-23 26 17.39	9001	2070	5123
10 11	12 13 18.7384	1	6 7 42.004	-20 48 45.62	9001	2070	5124
10 11	14 49 58.9999	1	7 58 34.004	7 27 3.91	9012	1523	1720
10 11	14 50 .9999	1	8 0 20.438	7 51 52.67	9012	1523	2442
10 11	22 14 54.6713	10	19 39 48.271	-56 0 6.77	9002	5113	5260
10 12	1 24 11.8220	1	8 28 54.945	9 52 15.26	9008	4541	539
10 12	1 24 17.8223	1	8 33 47.745	10 48 10.41	9008	4541	540
10 12	9 13 59.9421	1	6 9 3.857	49 41 49.74	9009	9221	6401
10 12	9 14 1.9426	1	6 11 54.776	50 1 17.89	9009	9221	6402
10 12	14 1 48.3681	1	22 43 58.526	-70 44 47.69	9003	6433	5298
10 12	14 1 56.3676	1	22 57 43.418	-70 57 22.39	9003	6433	5299
10 12	14 29 50.8912	1	8 36 50.627	9 46 44.00	9012	1537	2443

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.	ORS.NO.
1963	10 12	14 29	52.8912	1	8 38	19.524		10 7 21.00	4		9012	1537	1722
	10 12	19 48	4.4450	1	6 50	28.189		-12 9 55.60	4		9005	9007	7122
	10 12	19 48	4.4449	1	6 53	33.103		-11 34 41.19	4		9005	9007	6054
	10 12	22 22	58.2266	1	8 34	19.741		-15 54 39.24	4		9006	8906	5362
	10 12	22 23	2.2265	1	8 36	27.111		-15 19 41.67	4		9006	8906	5363
	10 13	8 53	46.9943	1	7 22	45.974		50 4 52.17	4		9009	9235	6403
	10 13	8 53	48.9944	1	7 25	28.064		50 16 34.99	4		9009	9235	6404
	10 13	11 34	50.1499	1	8 41	25.769		1 26 40.50	4		9001	2098	5837
	10 13	11 35	2.1499	1	8 49	44.400		3 9 25.98	4		9001	2098	5125
	10 13	13 41	19.9847	1	23 51	1.248		-71 29 43.11	4		9003	6455	5300
	10 13	13 41	23.9843	1	23 58	24.085		-71 26 8.22	4		9003	6455	5301
	10 13	14 8	46.5187	1	8 27	1.089		2 1 53.44	4		9012	1553	6390
	10 13	14 8	48.5188	1	8 28	25.402		2 24 10.93	4		9012	1553	6391
	10 13	21 35	25.4224	10	20 51	6.755		-69 43 11.41	4		9002	5165	5261
	10 13	22 3	16.6772	1	9 2	3.945		-9 6 31.12	4		9006	8917	5364
	10 14	0 42	33.0301	1	8 32	43.441		1 13 20.88	4		9008	4571	541
	10 14	11 13	51.7560	1	8 34	8.657		-3 29 36.54	4		9001	2120	5126
	10 14	11 14	3.7560	1	8 42	7.830		-1 44 15.15	4		9001	2120	5127
	10 14	13 21	16.7894	1	1 34	18.667		-68 33 37.40	4		9003	6475	4629
	10 14	13 21	47.9997	1	2 15	43.439		-65 47 56.90	4		9003	6475	4630
	10 14	13 48	44.1230	1	8 54	44.234		5 21 41.01	4		9012	1572	7087
	10 14	13 48	46.1230	1	8 55	52.614		5 39 43.51	4		9012	1572	6393
	10 14	21 15	20.9480	10	22 10	18.556		-74 27 58.10	4		9002	5191	5263
	10 14	23 35	51.6956	1	19 58	4.547		-56 55 39.69	4		9011	960	1711
	10 14	23 35	59.6954	1	20 2	19.156		-57 15 58.82	4		9011	960	1712
	10 15	10 53	4.8510	1	8 33	9.977		-6 27 57.70	4		9001	2138	5128
	10 15	10 53	20.8512	1	8 43	9.913		-4 10 18.01	4		9001	2138	5129
	10 15	13 1	42.9985	1	3 3	43.977		-59 10 2.88	4		9003	6496	4631
	10 15	13 1	46.9988	1	3 6	45.663		-58 41 29.86	4		9003	6496	4632
	10 15	13 28	15.2974	1	9 0	11.043		4 13 40.08	4		9012	1591	6394
	10 15	20 54	55.8177	10	23 34	58.282		-75 57 42.67	4		9002	5207	5264
	10 15	20 55	3.8174	10	23 51	50.817		-75 54 37.99	4		9002	5207	5828
	10 16	10 32	35.3210	1	8 40	45.529		-6 43 41.31	4		9001	2151	5130
	10 16	10 32	51.3209	1	8 49	53.664		-4 34 9.48	4		9001	2151	5131
	10 16	12 41	41.4190	1	3 30	59.332		-51 50 4.97	4		9003	6515	4633
	10 16	12 42	5.4185	1	3 42	39.223		-48 56 7.36	4		9003	6515	4634
	10 16	20 35	2.1872	10	1 55	57.816		-72 46 14.95	4		9002	5228	4617
	10 17	5 0	53.0910	1	8 49	20.871		16 57 14.57	4		9004	1000	6046
	10 17	5 0	57.0911	1	8 52	45.000		17 23 46.85	4		9004	1000	6047
	10 17	14 59	56.9928	1	20 53	9.166		-39 56 .52	4		9003	6539	5537
	10 17	15 29	38.0694	1	3 22	32.646		55 24 36.15	4		9012	1622	6395
	10 17	15 29	44.0695	1	3 27	14.885		56 43 .87	4		9012	1622	6396
	10 17	20 15	1.7752	10	3 5	6.179		-66 8 20.14	4		9002	5253	4618
	10 17	23 25	16.1191	10	9 2	32.297		48 11 47.45	4		9006	8966	5838
	10 17	23 25	20.1192	10	9 7	31.983		48 19 26.63	4		9006	8966	5366

DATE	TIME (A-I)	RMS	R.A. (1950.0)	DECL. (1950.0)	STATION	FRAME NO.	RHS NO.
Y M D	H M S	MS	H M S	D M S			
1963 10 18	4 40 23.6139	1	9 4 6.551	15 8 45.20	9004	1021	03 6048
10 18	4 40 27.6138	1	9 7 13.127	15 33 27.79	9004	1021	04 6049
10 18	12 1 29.6314	10	3 49 22.123	-39 53 20.58	9003	6551	04 5266
10 18	12 1 33.6316	10	3 50 34.719	-39 28 35.22	9003	6551	05 5267
10 18	17 3 57.6145	10	23 52 20.382	-68 16 13.22	9002	5266	04 4619
10 18	17 4 21.6139	10	0 10 41.703	-67 28 39.94	9002	5266	07 4620
10 18	19 54 18.7789	10	3 12 30.939	-63 24 14.75	9002	5275	04 4621
10 18	19 54 42.7784	10	3 27 34.353	-60 43 33.47	9002	5275	07 4622
10 18	23 4 5.6667	1	8 41 58.873	42 39 58.67	9006	8983	01 5367
10 18	23 4 9.6667	1	8 46 55.865	42 54 15.92	9006	8983	02 5368
10 19	1 40 1.7721	1	3 8 18.252	17 16 30.34	9008	4678	03 542
10 19	1 40 11.7724	1	3 12 54.995	19 12 28.62	9008	4678	08 543
10 19	9 33 59.9257	1	7 41 56.673	46 33 43.82	9010	1281	04 1705
10 19	9 34 7.9254	1	7 54 5.586	47 18 20.94	9010	1281	05 1706
10 19	14 18 59.3621	1	21 9 43.886	-45 42 54.15	9003	6565	04 5538
10 19	14 19 7.3618	1	21 14 10.153	-45 46 58.69	9003	6565	06 5539
10 19	19 35 39.4532	10	4 6 32.369	-46 51 51.72	9002	5296	06 4623
10 19	22 43 54.0000	1	9 25 31.067	39 36 15.18	9006	9003	01 5369
10 19	22 43 57.9999	1	9 29 25.016	39 44 32.49	9006	9003	02 5370
10 20	9 14 29.7832	1	9 29 22.009	45 23 20.05	9010	1290	07 1707
10 20	9 14 33.7836	1	9 33 26.623	45 26 20.59	9010	1290	08 1708
10 20	11 55 21.4302	1	9 31 4.366	53 59 6.75	9001	2192	06 5132
10 20	11 55 25.4302	1	9 36 24.376	53 56 4.58	9001	2192	07 5133
10 20	22 23 39.7537	1	9 52 .094	36 5 57.17	9006	9018	01 5372
10 20	22 23 43.7540	1	9 55 5.049	36 12 14.20	9006	9018	02 5373
10 21	3 2 32.1557	1	19 36 10.797	-45 43 41.53	9011	1083	04 1713
10 21	11 34 22.3592	1	9 27 32.372	50 19 32.92	9001	2210	11 5134
10 21	11 34 26.3592	1	9 27 40.749	50 18 54.62	9001	2210	12 5135
10 21	13 38 1.0669	1	21 45 48.053	-51 16 44.90	9003	6584	08 5540
10 21	13 38 5.0667	1	21 48 45.009	-51 16 58.51	9003	6584	09 5541
10 22	0 42 26.4819	1	9 35 22.215	55 0 13.20	9008	4732	04 544
10 22	2 41 41.2551	1	19 34 46.095	-47 56 9.76	9011	1109	07 1714
10 22	2 41 57.2547	1	19 40 34.349	-48 21 58.02	9011	1109	08 1715
10 22	13 19 30.7260	1	23 59 48.995	-49 10 39.30	9003	6602	04 5542
10 22	13 19 54.1509	1	0 21 24.783	-47 25 36.84	9003	6602	10 5543
10 22	19 8 15.4194	1	9 34 58.033	44 50 6.05	9005	9043	09 6055
10 22	19 8 19.4195	1	9 39 31.917	44 49 39.30	9005	9043	10 6056
10 22	21 42 30.6491	1	9 54 49.057	28 45 41.26	9006	9047	01 5374
10 23	5 38 59.3269	1	5 1 31.319	44 38 .06	9004	1112	03 6050
10 23	5 39 3.3267	1	5 6 9.171	45 25 26.49	9004	1112	05 6051
10 23	12 59 23.4756	1	0 51 35.481	-46 23 5.12	9003	6619	04 5544
10 23	12 59 47.4746	1	1 11 10.418	-43 55 30.99	9003	6619	10 5545
10 23	18 48 9.7374	1	10 15 41.465	40 47 .57	9005	9053	07 6057
10 23	18 48 17.7373	1	10 22 23.641	40 39 19.94	9005	9053	08 6058
10 23	20 52 52.7798	10	22 22 49.469	-53 19 48.26	9002	5344	05 4624

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.	CRS. NO.
1963 10 23	20 53	8.7797	22 36 2.041	-53 3 15.98	4	9002	5344	07
10 24	5 21	26.7485	10 26 4.693	55 18 28.50	4	9004	1129	04
10 24	5 21	34.7482	10 35 14.638	54 47 35.53	4	9004	1129	06
10 24	12 39	2.5454	1 24 35.002	-43 29 21.62	4	9003	6637	07
10 24	12 39	14.5453	1 33 1.034	-42 8 48.33	4	9003	6637	10
10 25	23 24	20.4264	10 37 12.045	77 12 26.96	4	9006	9080	01
10 25	23 24	24.4264	10 46 33.878	76 44 31.14	4	9006	9080	02
10 26	9 54	55.4791	11 6 57.978	81 6 .47	4	9010	1367	05
10 26	9 55	7.4804	11 34 26.950	79 29 25.31	4	9010	1367	08
10 26	11 59	25.6609	2 37 42.673	-28 51 57.88	4	9003	6649	05
10 26	12 0	5.6597	2 53 21.436	-24 16 54.32	4	9003	6649	15
10 26	15 8	43.2917	0 38 14.686	74 20 6.23	4	9012	1677	04
10 26	15 8	45.2917	0 37 32.586	74 39 11.37	4	9012	1677	05
10 27	11 39	21.7640	2 51 33.874	-23 59 17.59	4	9003	6670	06
10 27	11 39	37.7638	2 56 50.093	-22 18 43.97	4	9003	6670	10
10 27	12 15	52.1477	12 6 57.396	69 34 8.74	4	9001	2311	02
10 27	12 15	56.1478	12 10 34.223	69 2 37.33	4	9001	2311	03
10 27	14 48	27.4174	23 59 13.037	81 5 8.70	4	9012	1694	04
10 27	14 48	29.4175	23 56 44.932	81 23 34.42	4	9012	1694	05
10 28	11 54	59.4839	12 7 6.076	67 48 3.99	4	9001	2336	05
10 28	11 55	11.4840	12 16 7.960	66 12 4.74	4	9001	2336	08
10 28	22 23	8.6473	11 53 17.958	60 5 .89	4	9006	9117	01
10 29	1 2	30.3327	12 15 58.050	75 22 41.15	4	9008	4835	04
10 29	1 2	42.3324	12 26 8.410	73 35 40.34	4	9008	4835	07
10 29	22 1	56.1268	11 27 35.380	59 58 42.21	4	9006	9137	01
10 29	22 2	4.1273	11 32 36.427	59 5 52.89	4	9006	9137	02
10 30	0 42	.5342	12 26 32.848	70 13 45.92	4	9008	4850	08
10 30	11 13	15.0320	11 57 31.171	63 58 39.05	4	9001	2359	04
10 30	11 13	23.0321	12 2 41.009	62 54 18.42	4	9001	2359	06
10 31	10 8	3.9197	23 15 27.917	-58 31 50.47	4	9003	6737	07
10 31	10 52	38.4275	11 57 44.255	59 57 57.65	4	9001	2370	05
10 31	10 52	42.4276	11 59 52.410	59 27 35.61	4	9001	2370	06
11 1	0 1	47.4666	1 39 2.434	63 50 43.24	4	9006	9186	03
11 1	0 2	7.4671	1 42 5.850	67 14 45.98	4	9006	9186	08
11 2	20 11	13.6589	22 54 6.089	-16 16 32.94	4	9002	5476	03
11 2	20 11	25.6588	23 0 1.716	-15 3 21.21	4	9002	5476	06
11 3	9 53	50.3476	15 8 51.280	81 56 26.54	4	9010	1483	04
11 3	9 54	6.3480	14 43 27.742	79 41 6.27	4	9010	1483	08
11 3	11 57	55.4404	1 7 54.046	-1 26 39.73	4	9003	6806	04
11 3	11 58	3.4406	1 11 27.223	-0 34 6.73	4	9003	6806	06
11 3	23 3	23.1026	13 34 2.678	69 26 40.25	4	9006	9236	03
11 3	23 3	31.1033	13 33 37.475	68 17 7.24	4	9006	9236	05
11 4	19 31	23.5971	0 9 17.874	-8 27 55.72	4	9002	5520	03
11 4	19 31	35.5971	0 15 26.169	-6 59 17.84	4	9002	5520	06
11 4	22 42	22.2786	13 29 9.520	69 19 40.40	4	9006	9261	03

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.	CRS.NO.
1963 11 4	22 42	26.2787	1	13 28	44.733	68 43	52.96	9006	9261	04 7698
11 5	11 54	17.4819	1	13 2	9.250	62 24	37.81	9001	2438	04 8672
11 5	11 54	25.4818	1	13 3	56.011	61 13	34.70	9001	2438	06 8673
11 5	19 11	21.9416	1	0 42	11.158	- 4 41	12.48	9002	5546	05 8956
11 5	19 11	33.9407	1	0 47	56.387	- 3 13	59.31	9002	5546	08 9431
11 5	22 21	30.4803	1	13 21	4.356	67 57	29.38	9006	9274	01 7351
11 6	18 51	34.1669	1	1 16	57.203	0 30	40.78	9002	5575	06 8957
11 6	18 51	38.1675	1	1 18	40.357	0 57	45.15	9002	5575	07 8958
11 8	5 40	52.7519	1	12 8	46.456	47 46	33.59	9004	1235	01 8640
11 8	5 41	4.7517	1	12 14	3.612	46 5	51.82	9004	1235	04 8641
11 8	23 59	28.9138	1	13 23	37.785	64 21	51.70	9008	4937	05 9203
11 8	23 59	36.9140	1	13 22	24.990	63 11	55.00	9008	4937	07 9204
11 9	0 3	52.9639	1	11 57	24.830	78 2	57.30	9006	9324	02 7699
11 9	0 3	56.9640	1	12 2	36.959	77 23	49.22	9006	9324	03 7352
11 9	12 36	8.6940	1	22 44	17.956	17 50	24.18	9003	6932	02 8666
11 9	12 36	12.6941	1	22 45	36.480	18 12	54.82	9003	6932	03 9428
11 9	23 38	39.9261	1	13 14	48.420	62 50	38.46	9008	4950	04 9205
11 9	23 38	51.9263	1	13 13	7.604	61 7	42.54	9008	4950	07 9206
11 9	23 45	11.1133	1	13 11	34.961	56 30	6.29	9006	9375	03 7353
11 9	23 45	15.1135	1	13 12	8.530	55 55	56.26	9006	9375	04 7354
11 10	10 10	49.7123	1	12 45	29.601	49 38	9.15	9001	2503	03 8674
11 10	10 10	57.7121	1	12 45	58.583	48 40	42.33	9001	2503	04 8675
11 10	12 16	40.8010	1	23 16	31.144	24 8	59.01	9003	6953	03 8668
11 10	12 16	44.8009	1	23 17	56.038	24 31	9.90	9003	6953	04 8669
11 10	23 23	43.4484	1	13 12	38.605	60 42	37.65	9006	9403	05 7355
11 10	23 23	47.4484	1	13 12	57.553	60 5	56.16	9006	9403	06 7356
11 11	9 49	58.8327	1	12 36	2.749	48 38	29.10	9001	2528	01 8676
11 11	12 32	27.5020	1	8 22	20.342	73 48	18.14	9001	2534	01 8677
11 11	12 32	39.5021	1	8 56	9.925	72 53	35.01	9001	2534	04 8678
11 11	15 11	32.1109	1	14 9	26.677	62 15	43.13	9012	1855	03 7703
11 11	15 11	40.1111	1	14 8	11.964	61 19	47.67	9012	1855	05 6974
11 11	23 3	18.2306	1	13 16	47.139	55 40	26.70	9006	9425	01 7700
11 11	23 3	30.2307	1	13 17	4.405	53 58	48.44	9006	9425	04 7357
11 12	11 36	51.1468	1	0 6	55.577	30 23	19.73	9003	6984	02 8670
11 12	11 37	7.1467	1	0 12	52.509	31 39	14.65	9003	6984	06 8671
11 12	12 15	11.0530	1	12 30	12.059	42 13	9.56	9001	2556	05 7757
11 12	12 15	19.0531	1	12 32	24.428	41 7	4.10	9001	2556	07 7758
11 12	14 49	48.1253	1	14 23	30.063	67 5	2.75	9012	1865	02 6975
11 12	14 50	4.1253	1	14 18	6.905	65 10	43.15	9012	1865	06 6976
11 12	22 41	38.5190	1	13 19	6.346	61 49	46.27	9006	9448	03 7358
11 12	22 41	46.5190	1	13 18	28.029	60 34	42.96	9006	9448	05 7359
11 13	11 54	11.4396	1	12 33	3.597	42 53	33.19	9001	2577	06 7759
11 13	11 54	15.4397	1	12 34	.769	42 19	30.44	9001	2577	07 7475
11 14	23 55	35.0001	1	22 33	44.484	-41 32	28.26	9007	1077	02 8966
11 14	23 55	50.9994	1	22 40	20.894	-40 37	44.78	9007	1077	04 8967

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.	CHS. NO.
1963 11 14	23 58	56.6760	22 58 4.698	4 6 32.05	4	9011	1337	04 8934
11 14	23 59	20.6758	23 5 49.631	6 3 52.33	4	9011	1337	07 8935
11 15	5 58	26.2729	9 15 49.392	41 15 56.38	4	9004	1267	01 9430
11 15	5 58	42.2725	9 33 19.638	39 13 43.11	4	9004	1267	05 8642
11 16	23 59	27.3176	12 57 53.015	49 13 41.25	4	9008	5060	05 9207
11 16	23 59	35.3176	12 57 49.512	48 5 13.10	4	9008	5060	07 9208
11 17	0 6	1.8579	12 0 59.676	29 51 21.28	4	9006	9503	03 7360
11 17	0 6	9.8580	12 3 39.453	28 47 54.25	4	9006	9503	05 7361
11 17	5 19	4.0006	11 19 31.110	24 28 45.49	4	9004	1284	01 8643
11 17	5 19	8.0006	11 21 18.847	23 57 57.49	4	9004	1284	02 8644
11 17	10 37	17.9086	12 21 11.357	31 54 9.45	4	9010	1626	06 9432
11 17	10 37	29.9088	12 24 18.295	30 20 25.26	4	9010	1626	09 8931
11 17	23 45	4.9329	12 7 6.528	30 55 55.33	4	9006	9515	02 5941
11 17	23 45	16.9331	12 10 35.776	29 18 25.48	4	9006	9515	05 5942
11 18	4 59	1.9171	11 42 44.431	19 9 21.84	4	9004	1290	02 8645
11 18	4 59	9.9169	11 45 14.863	18 16 57.11	4	9004	1290	03 8646
11 18	10 10	.6747	12 33 54.363	39 50 49.58	4	9001	2638	04 7761
11 18	10 10	8.6746	12 34 20.034	38 48 40.68	4	9001	2638	05 7762
11 18	17 27	36.0966	0 13 8.379	26 19 36.06	4	9002	5675	04 8959
11 18	17 27	52.0962	0 18 36.650	27 30 35.23	4	9002	5675	06 8960
11 18	23 24	8.1874	12 12 18.483	31 55 52.31	4	9006	9537	03 5943
11 18	23 24	12.1874	12 13 19.664	31 22 18.61	4	9006	9537	04 5944
11 19	1 24	54.6916	0 18 16.811	-46 7 16.43	4	9010	1634	04 8932
11 19	1 25	18.6897	0 27 48.129	-45 11 11.57	4	9010	1634	07 8933
11 19	1 59	21.0736	6 13 23.567	54 35 10.89	4	9008	5097	03 9211
11 19	1 59	29.0741	6 25 4.016	54 32 43.38	4	9008	5097	07 9212
11 19	4 38	2.5516	11 42 54.378	20 36 13.10	4	9004	1312	01 8647
11 19	4 38	10.5516	11 45 15.134	19 41 24.11	4	9004	1312	02 8648
11 19	6 39	6.8160	23 18 21.932	-44 48 29.65	4	9012	1974	04 6977
11 19	6 39	14.8160	23 21 24.011	-44 31 58.21	4	9012	1974	05 6978
11 19	9 55	55.3797	12 36 30.431	29 25 19.36	4	9010	1646	05 8972
11 19	14 34	58.3023	1 0 25.979	-42 49 43.63	4	9006	9544	01 5945
11 19	14 35	6.3026	1 3 38.102	-42 27 16.07	4	9006	9544	02 5946
11 19	15 12	7.1253	12 53 18.951	40 3 8.24	4	9012	1984	02 6979
11 19	23 3	14.2240	12 17 .555	32 29 36.99	4	9006	9556	03 5947
11 19	23 3	18.2240	12 17 51.026	31 55 44.82	4	9006	9556	04 5948
11 20	1 5	17.4296	0 51 25.664	-42 32 31.86	4	9010	1658	10 8973
11 20	1 43	28.7095	11 25 43.313	21 43 34.48	4	9008	5113	03 9209
11 20	1 43	44.7098	11 32 6.121	19 38 39.60	4	9008	5113	07 9210
11 20	4 17	6.6883	11 43 20.256	21 40 56.39	4	9004	1331	04 7131
11 20	6 17	48.1666	23 16 34.512	-45 59 20.93	4	9012	1998	01 6980
11 20	6 18	8.1664	23 23 58.322	-45 18 11.81	4	9012	1998	06 7704
11 20	14 50	30.5002	12 53 26.752	45 49 35.42	4	9012	2006	03 6981
11 20	14 50	34.5004	12 53 51.139	45 15 33.90	4	9012	2006	04 6982
11 21	3 56	32.6355	11 48 .518	20 13 41.79	4	9004	1351	01 729

DATE			TIME (A-L)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	OBS.NO.	
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S				
1963	11	22	0	20	42.9154	1	22	23	8.902	-36	50	3.93	4	9009	9587	02	9201
	11	22	0	20	58.9152	1	22	28	31.391	-36	7	16.02	4	9009	9587	06	9202
	11	22	5	37	20.9660	1	23	59	42.158	-42	35	40.88	4	9012	2031	05	6983
	11	22	5	37	24.9661	1	0	11	716	-42	24	37.44	4	9012	2031	06	6984
	11	22	22	0	50.2015	1	12	24	34.041	31	35	41.21	4	9006	9579	01	5949
	11	22	22	0	58.2017	1	12	25	18.161	30	32	57.21	4	9006	9579	02	5950
	11	23	0	4	21.1496	1	1	28	2.846	-35	8	54.79	4	9010	1697	02	8974
	11	23	8	31	28.4813	1	12	35	55.893	37	29	37.97	4	9010	1709	03	8975
	11	23	8	31	44.4815	1	12	36	36.647	35	19	32.60	4	9010	1709	05	8976
	11	23	23	38	48.0649	1	22	39	50.886	-38	24	12.15	4	9009	9610	04	8968
	11	23	23	39	4.0650	1	22	45	18.589	-37	40	3.78	4	9009	9610	06	8969
	11	24	0	18	33.9863	1	4	58	57.952	30	54	48.54	4	9006	9609	02	5939
11	24	0	18	45.9868	1	5	7	42.143	30	40	21.76	4	9006	9609	05	5940	
11	24	10	51	54.5041	1	11	50	22.572	11	6	43.23	4	9001	2715	04	7767	
11	24	10	52	2.5038	1	11	52	2.480	10	18	54.89	4	9001	2715	05	7768	
11	25	0	5	24.0155	1	10	35	5.161	-7	32	41.80	4	9006	9612	02	7132	
11	25	0	5	32.0153	1	10	38	27.665	-8	11	51.27	4	9006	9612	03	5952	
11	26	12	48	19.2233	1	5	43	30.606	11	19	28.97	4	9001	2737	06	7769	
11	26	12	48	27.2234	1	5	48	27.266	10	47	52.33	4	9001	2737	08	7770	
11	26	23	24	9.0909	1	11	0	13.302	-7	30	38.97	4	9006	9634	01	8961	
11	26	23	24	17.0907	1	11	3	3.664	-8	8	51.52	4	9006	9634	02	8962	
11	27	12	34	2.0617	1	9	35	45.623	-20	13	15.98	4	9001	2759	06	7771	
11	27	12	34	10.0614	1	9	39	24.724	-20	43	30.29	4	9001	2759	07	7772	
11	27	14	32	5.3163	1	22	47	57.148	-27	1	53.16	4	9006	9649	02	8963	
11	27	15	12	10.4929	1	11	30	22.522	2	45	3.61	4	9012	2076	05	6985	
11	27	15	12	14.4931	1	11	31	38.859	2	19	4.07	4	9012	2076	06	6986	
11	27	20	26	15.2214	1	8	29	12.827	-20	17	14.06	4	9005	9303	02	2476	
11	27	23	3	9.5299	1	11	3	38.122	-5	27	25.50	4	9006	9662	01	8964	
11	27	23	3	17.5299	1	11	6	21.715	-6	8	10.50	4	9006	9662	02	8965	
11	28	9	33	50.5337	1	11	9	20.831	1	10	28.11	4	9010	1726	02	8977	
11	28	9	34	10.5312	1	11	16	.331	-0	53	5.86	4	9010	1726	07	8978	
11	28	9	39	38.4520	1	11	57	37.237	2	9	34.19	4	9009	9660	03	8970	
11	28	9	39	50.4521	1	12	0	49.959	0	57	28.12	4	9009	9660	06	8971	
11	28	12	13	19.3202	1	9	43	56.533	-20	21	.52	4	9001	2782	03	8632	
11	28	12	13	27.3200	1	9	47	36.159	-20	51	.80	4	9001	2782	04	8633	
11	28	20	5	30.8130	1	8	31	23.972	-20	42	26.15	4	9005	9324	03	8680	
11	28	20	5	35.6304	1	8	33	51.076	-21	1	44.60	4	9005	9324	04	9429	
11	28	22	41	33.8450	1	10	53	58.479	0	23	55.23	4	9006	9684	02	8682	
11	29	5	55	51.4192	1	21	49	.076	-19	51	18.08	4	9012	2088	03	8936	
11	29	5	56	7.4191	1	21	53	8.151	-18	58	20.17	4	9012	2088	07	8937	
11	29	11	52	25.8368	1	9	47	43.309	-19	34	17.23	4	9001	2800	03	8634	
11	29	11	52	33.8367	1	9	51	26.298	-20	5	6.09	4	9001	2800	04	8635	
11	29	14	30	47.0078	1	11	50	21.419	3	35	46.09	4	9012	2098	06	8938	
11	29	14	30	55.0079	1	11	52	14.468	2	45	35.03	4	9012	2098	08	8939	
11	30	3	1	46.5925	1	22	25	52.139	-20	37	2.60	4	9001	2807	03	8636	

DATE			TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	ORS.NO.	
Y	M	D	H	M	S	MS	H	M	S	D	M	S				
1963	11	30	3	2	10.5928	1	22	32	49.440	-19	30	28.89	9001	2807	06	8637
	11	30	5	35	7.2981	1	21	57	59.163	-20	22	19.15	9012	2103	06	8940
	11	30	5	35	15.2982	1	22	0	11.522	-19	55	45.70	9012	2103	08	8941
	11	30	11	32	10.5461	1	10	8	52.617	-20	55	52.68	9001	2815	02	8638
	11	30	11	32	18.5458	1	10	12	12.755	-21	23	31.66	9001	2815	03	8639
	11	30	14	9	49.7847	1	11	54	5.545	5	41	52.81	9012	2111	05	9433
	11	30	14	9	53.7847	1	11	54	55.673	5	15	56.82	9012	2111	06	45
	12	1	5	14	16.0397	1	22	5	46.520	-21	4	22.21	9012	2120	08	3361
	12	1	13	9	24.7617	1	23	24	55.510	-25	59	5.43	9006	9738	04	1796
	12	1	13	9	48.7622	1	23	33	30.105	-24	44	50.50	9006	9738	07	1797
12	1	13	48	45.7830	1	11	55	26.669	8	35	17.85	9012	2128	03	3362	
12	1	13	48	49.7831	1	11	56	11.472	8	7	53.75	9012	2128	04	3363	
12	2	2	20	45.0452	1	22	47	33.730	-20	1	49.02	9001	2834	04	3113	
12	2	2	21	1.0454	1	22	52	57.895	-19	13	25.24	9001	2834	06	3114	
12	2	12	48	36.2209	1	23	30	10.257	-25	36	18.87	9006	9756	05	1798	
12	2	12	49	.2217	1	23	38	31.672	-24	21	55.80	9006	9756	08	1799	
12	2	13	27	50.3817	1	11	57	23.032	10	30	32.97	9012	2146	03	3364	
12	2	13	27	54.3819	1	11	58	.820	10	2	43.37	9012	2146	04	3365	
12	3	0	2	43.9749	10	8	20	52.606	-28	49	5.74	9006	9770	07	1800	
12	3	1	59	36.3584	1	22	46	47.498	-21	16	14.23	9001	2848	03	3115	
12	3	1	59	52.3579	1	22	52	4.813	-20	30	9.54	9001	2848	05	3116	
12	3	4	38	31.5343	1	0	47	6.629	6	42	52.32	9012	2155	03	3366	
12	3	4	38	35.5343	1	0	49	13.498	7	6	31.79	9012	2155	05	3367	
12	3	15	49	52.6513	1	7	59	58.205	-19	12	10.64	9012	2172	04	3368	
12	3	15	49	54.6514	1	8	0	57.405	-19	23	36.20	9012	2172	05	3369	
12	3	23	0	10.6177	1	22	41	30.126	14	57	19.35	9009	9703	03	1571	
12	3	23	0	20.6177	1	22	45	37.869	16	5	12.24	9009	9703	08	1572	
12	4	1	39	17.4303	1	23	2	33.978	-19	54	23.25	9001	2867	03	3117	
12	4	1	39	25.4300	1	23	5	22.390	-19	29	41.69	9001	2867	04	3118	
12	4	6	58	59.5456	1	20	42	32.001	18	54	32.38	9012	2179	04	3370	
12	4	6	59	3.5455	1	20	42	54.808	19	16	50.53	9012	2179	05	3371	
12	4	10	13	52.9021	1	8	52	24.041	-31	16	20.33	9010	1791	04	3278	
12	4	23	22	2.7386	10	8	53	12.418	-32	58	59.28	9006	9798	05	1801	
12	4	23	22	18.7388	10	9	0	44.237	-33	53	43.61	9006	9798	07	2411	
12	5	6	37	33.7358	1	20	39	13.136	15	36	48.82	9012	2197	02	3372	
12	5	9	13	13.5277	1	23	3	28.596	-18	27	40.34	9005	9365	03	2408	
12	5	9	13	23.1238	1	23	6	51.404	-17	59	31.99	9005	9365	04	2409	
12	5	23	1	45.5194	10	9	13	18.389	-34	41	35.41	9006	9804	04	1803	
12	5	23	2	1.5196	10	9	20	37.584	-35	29	40.36	9006	9804	06	1804	
12	6	1	0	55.0005	1	21	8	56.520	2	37	45.93	9010	1803	06	3279	
12	6	1	1	3.0005	1	21	10	23.554	3	12	58.66	9010	1803	07	3280	
12	6	1	38	41.9389	1	7	10	37.017	-27	26	23.76	9008	5264	06	1183	
12	6	1	38	49.9395	1	7	14	10.768	-28	2	55.51	9008	5264	08	1184	
12	6	9	33	2.2387	1	9	27	20.057	-33	51	29.30	9010	1812	05	3281	
12	6	12	8	58.5472	1	6	59	40.784	-28	7	4.09	9001	2898	04	3119	

DATE	TIME (A-1)	RMS	R.A. (1950.0)	DECL. (1950.0)	STATION	FRAME NO.	PHS.NO.
Y M D	H M S	MS	H M S	D M S			
1963 12 6	12 9 14.5471	1	7 6 41.814	-29 16 13.42	9001	2898	06 3120
12 6 22 41 13.6775	1	1	9 27 12.915	-35 12 54.41	9006	9820	04 2412
12 6 22 41 37.6775	1	1	9 37 49.010	-36 17 40.48	9006	9820	07 2413
12 7 0 39 52.2659	1	1	21 10 4.318	1 13 24.59	9010	1817	05 3282
12 7 0 40 .2658	1	1	21 11 38.684	1 47 26.93	9010	1817	06 3283
12 7 3 21 39.8004	1	1	21 14 58.717	7 36 19.68	9001	2905	06 3121
12 7 3 21 47.8006	1	1	21 16 19.039	8 12 24.63	9001	2905	07 3122
12 7 13 48 23.9624	10	10	21 21 59.399	- 2 48 15.32	9006	9831	04 2414
12 7 13 48 55.9629	10	10	21 29 14.212	- 0 40 55.33	9006	9831	08 2415
12 8 3 0 57.4801	1	1	21 17 34.774	7 48 56.18	9001	2914	04 3123
12 8 3 1 13.4802	1	1	21 20 40.327	9 3 56.18	9001	2914	06 3124
12 8 13 28 25.7118	1	1	21 39 52.802	0 14 50.28	9006	9842	05 1808
12 8 13 28 33.7119	1	1	21 42 3.119	0 49 58.61	9006	9842	06 1809
12 8 14 9 53.0037	1	1	10 35 26.814	-34 54 50.68	9012	2203	04 3373
12 8 14 9 57.0037	1	1	10 36 56.444	-35 5 30.50	9012	2203	05 3374
12 8 23 59 40.5954	1	1	20 9 35.692	30 46 15.91	9009	9721	06 1573
12 8 23 59 52.5950	1	1	20 10 48.122	31 52 20.63	9009	9721	09 1574
12 9 5 13 18.1064	1	1	20 42 43.331	10 31 57.23	9012	2210	02 3375
12 9 5 13 34.1061	1	1	20 45 35.052	11 50 48.96	9012	2210	06 3376
12 9 11 9 10.6350	1	1	8 8 21.429	-39 36 49.99	9001	2935	05 3125
12 9 11 9 18.6353	1	1	8 12 10.928	-40 1 48.26	9001	2935	06 3126
12 9 15 54 27.8032	1	1	20 41 16.887	29 38 34.04	9006	9855	06 1810
12 9 15 54 35.8034	1	1	20 41 40.763	30 23 14.85	9006	9855	07 1811
12 9 18 23 31.1869	1	1	22 47 19.646	-10 20 23.64	9004	1458	04 1419
12 9 18 23 55.1873	1	1	22 56 1.181	- 9 1 13.69	9004	1458	07 1420
12 9 23 37 51.8527	1	1	20 5 43.435	26 12 39.29	9009	9732	07 1575
12 9 23 38 3.8521	1	1	20 7 5.007	27 14 20.41	9009	9732	10 1576
12 10 4 53 14.3702	1	1	20 58 4.424	14 24 40.38	9012	2225	03 3377
12 10 4 53 18.3702	1	1	20 58 57.433	14 46 17.76	9012	2225	04 3378
12 10 15 26 47.1476	1	1	21 9 20.199	8 19 27.72	9008	5410	05 1185
12 10 18 10 55.6170	1	1	3 16 .390	19 27 6.80	9004	1470	06 1421
12 10 18 11 7.6167	1	1	3 23 19.131	19 49 25.88	9004	1470	09 1422
12 10 23 23 51.8454	1	1	1 28 51.901	40 16 8.74	9010	1857	05 3285
12 10 23 23 55.8455	1	1	1 32 26.095	40 31 45.25	9010	1857	06 3286
12 11 2 4 51.5389	1	1	20 27 14.172	36 26 9.96	9010	1861	07 3290
12 11 4 38 32.2860	1	1	0 11 44.822	54 50 56.72	9012	2230	05 3379
12 11 4 38 36.2860	1	1	0 15 42.710	55 12 10.62	9012	2230	07 3380
12 11 15 6 .6999	1	1	21 15 18.310	8 25 10.85	9008	5417	03 1186
12 11 15 6 8.6995	1	1	21 17 15.326	9 3 6.06	9008	5417	04 1187
12 12 14 44 35.4237	1	1	21 12 37.685	5 38 52.43	9008	5429	03 1558
12 12 14 44 59.4231	1	1	21 18 35.169	7 24 24.04	9008	5429	06 1559
12 13 1 16 19.4316	1	1	21 31 39.238	4 27 39.59	9001	2949	07 3127
12 13 1 16 27.4315	1	1	21 33 53.231	5 1 17.23	9001	2949	08 3128
12 13 4 3 12.3345	1	1	20 41 25.114	30 10 49.38	9001	2951	05 3129
12 13 4 3 20.3345	1	1	20 42 1.713	30 53 22.97	9001	2951	06 3632

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.	SRS.NO.
1963 12 13	9 11 15.2076	1	21 36 6.438	5 32 32.85	4	9005	9429	3636
12 13	14 30 36.3368	1	1 1 29.997	44 13 48.16	4	9008	5440	1560
12 13	14 30 38.3361	1	1 3 27.991	44 22 9.91	4	9008	5440	1561
12 14	1 2 17.4221	1	1 34 59.928	39 15 36.88	4	9001	2954	8065
12 14	1 2 21.4227	1	1 38 46.438	39 28 12.66	4	9001	2954	8066
12 14	3 42 31.1959	1	20 38 17.343	31 35 29.82	4	9001	2961	8067
12 14	3 42 35.1960	1	20 38 39.144	31 57 44.73	4	9001	2961	8630
12 14	6 18 20.8921	1	19 52 34.447	47 32 50.22	4	9012	2249	1188
12 14	8 50 26.1154	1	21 41 29.555	5 28 43.48	4	9005	9443	1792
12 14	8 50 54.8833	1	21 50 27.539	7 28 41.21	4	9005	9443	1793
12 14	14 9 51.3670	1	20 31 56.168	29 50 23.30	4	9006	9902	1812
12 14	14 10 15.3675	1	20 35 25.107	32 14 42.44	4	9006	9902	1813
12 15	3 21 24.3121	1	20 33 50.106	30 43 58.96	4	9001	2971	8069
12 15	3 21 32.3121	1	20 34 40.261	31 27 48.00	4	9001	2971	8070
12 15	8 34 8.2025	1	0 2 7.634	27 56 30.33	4	9005	9461	1794
12 15	8 34 32.1792	1	0 20 34.252	29 58 56.30	4	9005	9461	1795
12 15	13 48 15.9537	1	20 27 11.228	26 15 49.64	4	9006	9917	1814
12 15	13 48 31.9540	1	20 29 35.980	27 42 29.70	4	9006	9917	1815
12 16	3 0 53.6051	1	20 34 30.197	33 17 52.58	4	9001	2990	8071
12 16	3 1 1.6051	1	20 35 32.874	34 5 17.35	4	9001	2990	8072
12 16	5 35 36.9529	1	19 51 18.669	43 37 19.22	4	9012	2268	1189
12 16	13 27 14.0334	1	20 27 49.594	25 49 56.95	4	9006	9928	1816
12 16	13 27 46.0341	1	20 33 26.186	28 44 41.79	4	9006	9928	1817
12 16	14 6 4.3435	1	7 16 5.717	-47 53 30.33	4	9012	2270	1190
12 16	14 6 20.4344	1	7 24 5.855	-48 57 57.74	4	9012	2270	1191
12 17	2 39 23.0903	1	20 28 38.608	30 18 33.28	4	9001	3004	8073
12 17	2 39 31.0899	1	20 29 44.603	31 1 59.75	4	9001	3004	8074
12 17	5 13 50.3758	1	19 48 35.947	39 30 40.10	4	9012	2274	1192
12 17	13 6 34.5035	1	20 33 41.573	27 24 7.28	4	9006	9943	1818
12 18	4 52 11.9476	1	19 46 5.559	36 23 50.06	4	9012	2284	3521
12 18	4 52 15.9475	1	19 46 30.772	36 44 43.22	4	9012	2284	3522
12 18	12 48 12.5828	1	21 25 40.535	43 41 40.24	4	9006	9955	1819
12 18	12 48 20.5834	1	21 29 13.617	44 39 12.58	4	9006	9955	1820
12 18	23 25 2.9053	1	4 58 50.185	65 5 44.77	4	9010	1915	3639
12 18	23 25 10.9055	1	5 6 36.683	64 23 40.21	4	9010	1915	3287
12 19	1 57 57.6089	1	20 33 40.446	33 20 6.70	4	9001	3028	8075
12 19	1 58 5.6087	1	20 35 16.141	34 6 55.20	4	9001	3028	8076
12 19	2 4 52.5112	1	19 59 50.964	51 40 43.53	4	9010	1918	3291
12 19	2 5 .5113	1	19 59 33.757	52 30 1.33	4	9010	1918	3292
12 19	8 0 52.9217	1	11 29 28.495	-9 25 50.79	4	9011	1880	3506
12 19	8 1 .9213	1	11 32 27.037	-10 4 20.40	4	9011	1880	3507
12 19	15 13 2.5216	1	20 9 35.877	48 56 22.24	4	9006	9974	1821
12 19	15 13 10.5212	1	20 9 47.467	49 46 32.54	4	9006	9974	1822
12 20	1 36 5.1934	1	20 24 39.519	28 33 11.66	4	9001	3044	8077
12 20	1 36 13.1929	1	20 26 9.258	29 14 2.92	4	9001	3044	8078

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.	ORS.NO.
1963 12 20	7 42 34.7664	1	12 26 48.584	-18 8 36.34	4	9011	1902	07
12 20	7 42 38.7663	1	12 28 6.705	-18 21 53.32	4	9011	1902	08
12 20	14 44 15.0176	1	20 16 9.110	33 14 53.48	4	9008	5547	05
12 20	14 44 31.0179	1	20 19 10.645	34 42 24.05	4	9008	5547	09
12 20	14 52 2.8848	1	20 4 39.817	49 18 21.42	4	9006	9990	04
12 21	1 15 7.9709	10	20 26 34.983	28 45 33.56	4	9001	3058	02
12 21	1 15 15.9710	10	20 28 15.483	29 26 10.50	4	9001	3058	03
12 21	7 22 10.0455	1	12 36 32.698	-17 49 3.87	4	9011	1927	04
12 21	7 22 18.0453	1	12 38 58.991	-18 13 43.57	4	9011	1927	05
12 21	14 31 18.3427	1	4 17 13.395	68 24 52.73	4	9008	5561	04
12 21	14 31 30.3431	1	4 32 59.584	67 22 2.68	4	9008	5561	07
12 21	14 31 30.7729	1	20 2 33.556	52 41 51.79	4	9006	2	03
12 21	14 31 38.7731	1	20 3 3.709	53 35 23.51	4	9006	2	04
12 21	17 11 50.3830	1	20 14 44.200	50 53 44.69	4	9008	5565	03
12 21	17 12 6.3837	1	20 15 20.906	52 32 48.72	4	9008	5565	07
12 21	19 44 50.5977	1	20 43 21.407	36 51 36.90	4	9004	1494	03
12 21	19 45 6.5975	1	20 47 3.375	38 24 49.87	4	9004	1494	05
12 22	1 2 2.8479	1	19 46 15.689	54 0 36.78	4	9010	1951	05
12 22	1 2 10.8480	1	19 46 24.275	54 51 2.87	4	9010	1951	06
12 22	7 0 32.7182	1	12 22 34.415	-13 28 1.27	4	9011	1958	06
12 22	7 0 40.7180	1	12 25 .793	-13 56 22.36	4	9011	1958	07
12 22	17 23 18.7297	1	9 11 32.783	30 33 22.61	4	9003	7804	06
12 22	17 24 18.5263	1	9 38 31.922	24 25 12.37	4	9003	7804	15
12 23	0 41 12.7594	1	19 44 43.300	55 38 3.79	4	9010	1961	06
12 23	0 41 28.7596	1	19 45 26.839	57 21 46.88	4	9010	1961	08
12 23	3 21 12.1026	1	20 21 4.729	45 23 47.53	4	9001	3086	04
12 23	3 21 20.1023	1	20 21 58.971	46 8 54.91	4	9001	3086	05
12 23	6 39 52.5398	1	12 24 55.704	-12 19 57.46	4	9011	1982	07
12 23	6 40 .5396	1	12 27 14.878	-12 47 47.63	4	9011	1982	08
12 23	9 15 17.9784	1	6 55 10.128	-34 22 40.02	4	9007	1621	05
12 23	9 15 25.9783	1	6 57 54.763	-35 14 47.90	4	9007	1621	06
12 23	13 49 .7763	1	19 56 27.224	50 30 27.00	4	9006	32	04
12 23	13 49 8.7762	1	19 57 22.101	51 20 14.73	4	9006	32	05
12 23	16 29 53.9554	1	20 1 59.225	52 13 42.51	4	9008	5600	03
12 23	16 30 9.9564	1	20 3 1.361	53 53 11.93	4	9008	5600	05
12 23	17 3 30.3182	1	9 43 59.610	26 13 58.22	4	9003	7826	04
12 23	17 3 46.3178	1	9 50 58.942	24 30 9.70	4	9003	7826	08
12 24	3 0 1.1577	1	20 13 38.767	44 54 12.54	4	9001	3104	03
12 24	3 0 9.1576	1	20 14 36.450	45 37 59.30	4	9001	3104	04
12 24	13 28 12.9571	1	19 58 5.273	52 21 26.01	4	9006	43	03
12 24	13 28 28.9572	1	20 0 36.240	54 3 54.13	4	9006	43	05
12 24	16 9 2.7177	1	19 58 .402	53 43 43.65	4	9008	5612	04
12 24	16 9 18.7182	1	19 59 22.086	55 24 55.03	4	9008	5612	08
12 25	13 7 16.2349	1	20 0 26.355	53 18 33.34	4	9006	61	05
12 25	13 7 24.2351	1	20 2 1.053	54 9 18.52	4	9006	61	06

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.	CNS.NO.
1963 12 25	16 23	44.7794	1	10 36 15.784		17 14 1.39	4	9003	7845	06 1413
12 25	16 24	8.7786	1	10 45 7.744		14 39 5.90	4	9003	7845	09 1414
12 26	2 18	36.5248	1	20 10 .041		49 27 27.59	4	9001	3119	04 2836
12 26	2 18	44.5247	1	20 11 23.519		50 15 22.51	4	9001	3119	05 5591
12 26	16 4	8.9341	1	11 2 9.288		11 8 26.14	4	9003	7860	05 1415
12 26	16 4	32.9324	1	11 10 2.975		8 46 47.03	4	9003	7860	08 1416
12 26	18 48	20.6301	1	8 44 17.367		-28 57 5.76	4	9003	7870	04 1417
12 26	18 48	40.6295	1	8 54 56.254		-31 3 19.83	4	9003	7870	09 1418
12 27	1 57	42.1257	1	20 8 58.407		50 41 39.50	4	9001	3126	04 2838
12 27	1 57	50.1259	1	20 10 36.312		51 29 58.76	4	9001	3126	05 2839
12 27	23 36	50.5622	1	10 24 34.585		2 48 .63	4	9002	6124	09 2842
12 28	1 36	40.6795	1	20 8 2.768		51 16 14.39	4	9001	3144	03 2840
12 28	1 36	48.6796	1	20 9 54.935		52 3 57.42	4	9001	3144	04 2841
12 28	2 21	10.5603	1	7 15 32.115		-36 56 55.58	4	9002	6134	07 2843
12 28	2 21	18.5606	1	7 18 43.860		-37 49 14.95	4	9002	6134	08 2844
12 28	7 41	42.3543	1	12 43 52.567		-44 50 24.86	4	9011	2070	05 3516
12 28	14 51	56.4299	1	20 23 58.454		59 7 39.93	4	9006	107	06 1177
12 29	7 20	42.6364	1	12 45 40.840		-42 37 45.74	4	9011	2097	04 3517
12 29	7 20	58.6360	1	12 53 15.602		-42 47 17.20	4	9011	2097	06 3518
12 30	6 59	57.4159	1	12 52 16.932		-40 25 56.05	4	9011	2123	05 3519
12 30	7 0	5.4157	1	12 55 49.846		-40 30 43.70	4	9011	2123	06 3520
12 30	14 10	13.4427	1	20 12 40.363		62 51 24.34	4	9006	131	05 2417
12 30	19 23	3.6650	1	20 41 4.626		48 5 37.34	4	9004	1571	04 1425
12 30	19 23	19.6649	1	20 46 36.781		49 31 28.77	4	9004	1571	06 1426
12 31	5 59	14.1977	1	18 29 6.288		80 28 48.35	4	9012	2376	04 3523
12 31	13 49	9.5997	1	20 7 13.814		63 28 41.85	4	9006	151	06 1179
12 31	13 49	25.5997	1	20 11 27.962		65 12 23.01	4	9006	151	08 1180
12 31	19 2	12.6207	1	20 40 58.312		49 49 22.40	4	9004	1590	04 1427
12 31	19 2	36.6209	1	20 50 26.026		52 0 38.12	4	9004	1590	07 1428

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.	NRS.NO.
1963	9 1 14 0	13.6809	5 29 51.275	-16 26 16.05	9012	1087	3248
	9 1 14 0	21.6841	5 34 19.251	-15 2 7.51	9012	1087	3249
	9 2 4 28	3.7488	5 57 55.944	-13 39 14.39	9004	297	3576
	9 2 4 28	19.7486	6 7 21.000	-11 38 3.35	9004	297	3577
	9 3 14 35	26.7431	3 23 6.420	31 12 10.34	9012	1137	3250
	9 3 14 35	32.7432	3 30 14.213	32 45 9.02	9012	1137	3251
	9 5 0 47	41.6978	3 47 34.162	32 8 50.21	9008	3932	3597
	9 5 4 23	36.4831	4 45 46.245	0 9 46.88	9004	319	3578
	9 5 4 23	44.4832	4 53 5.105	1 31 32.76	9004	319	3579
	9 5 13 19	43.2193	5 59 38.789	23 23 23.93	9012	1154	3252
	9 5 13 19	51.2194	6 4 57.555	24 18 14.72	9012	1154	3253
	9 5 15 9	55.0155	23 12 52.247	48 17 34.38	9012	1162	3254
	9 5 15 10	1.0156	23 13 41.335	49 37 39.78	9012	1162	3255
	9 6 0 10	8.2148	5 48 19.269	31 29 27.18	9008	3948	3242
	9 6 0 10	12.2150	5 52 42.520	31 58 2.82	9008	3948	3243
	9 7 3 7	27.3628	5 42 43.717	0 0 42.57	9004	353	3580
	9 7 4 58	17.2361	2 22 48.266	38 55 23.58	9004	360	3581
	9 7 4 58	25.2361	2 32 56.309	41 4 42.55	9004	360	3716
	9 7 8 31	32.7771	6 20 25.404	40 40 15.89	9010	969	3568
	9 7 8 31	36.7773	6 24 21.711	40 53 8.80	9010	969	3569
	9 7 11 30	19.0054	7 4 15.203	-77 24 33.98	9003	5721	3550
	9 7 11 30	22.9268	6 53 5.131	-77 21 41.31	9003	5721	3712
	9 8 0 44	14.9714	1 16 59.591	67 29 15.91	9008	3985	3902
	9 8 2 28	41.9871	5 27 23.277	-4 14 23.51	9004	373	3582
	9 8 4 20	3.0322	3 54 27.680	37 7 26.74	9004	378	3843
	9 8 4 20	9.0321	4 3 50.305	38 16 15.91	9004	378	3844
	9 8 10 53	11.5885	3 11 10.664	-65 51 12.95	9003	5735	3551
	9 8 14 41	14.6009	22 18 24.306	-6 20 20.44	9003	5740	3331
	9 8 14 41	20.1937	22 23 38.901	-5 8 14.40	9003	5740	3332
	9 8 14 41	25.7866	22 28 48.377	-3 56 33.28	9003	5740	3333
	9 8 14 41	31.3794	22 33 52.615	-2 45 31.16	9003	5740	3334
	9 8 14 41	36.9723	22 38 51.915	-1 35 9.97	9003	5740	3335
	9 8 21 53	45.3608	23 3 49.735	-16 2 12.05	9002	4421	3221
	9 8 21 53	50.9536	23 9 9.861	-14 35 34.55	9002	4421	3222
	9 8 21 53	56.5466	23 14 22.408	-13 9 15.26	9002	4421	3223
	9 8 21 54	2.1394	23 19 28.108	-11 43 24.85	9002	4421	3224
	9 8 21 54	7.7322	23 24 26.848	-10 18 14.41	9002	4421	3225
	9 9 0 6	41.8205	6 3 37.490	67 56 51.93	9008	4000	3891
	9 9 3 42	38.2193	6 2 35.513	34 49 42.31	9004	395	3845
	9 9 3 42	58.2194	6 25 16.579	35 57 14.11	9004	395	3846
	9 9 9 6	4.6870	4 18 37.338	82 13 43.21	9010	993	3714
	9 9 9 6	12.6879	5 7 59.831	82 20 26.54	9010	993	3571
	9 9 10 52	22.3224	0 35 26.331	42 15 45.78	9001	1566	3011
	9 9 10 52	27.9152	0 40 14.960	43 53 16.34	9001	1566	3012
	9 9 10 52	33.5080	0 45 20.817	45 30 42.92	9001	1566	3013

DATE	TIME (A-1)	RMS	R.A. (1950.0)	DECL. (1950.0)	STATION	FRAME NO.	R.S. NO.
Y M D	H M S	MS	H M S	D M S			
1963	9 9 10 52	1	0 50 45.256	47 8 44	9001	1566	3014
	9 9 10 52	1	0 56 30.783	48 44 50.07	9001	1566	3015
	9 9 14 2	1	22 34 3.7441	-21 49 14.77	9003	5763	3341
	9 9 14 2	1	22 40 5.654	-20 26 38.80	9003	5763	3342
	9 9 14 2	1	22 45 37.255	-19 3 58.27	9003	5763	3343
	9 9 14 2	1	22 51 125	-17 41 38.30	9003	5763	3344
	9 9 14 2	1	22 56 14.028	-16 19 37.72	9003	5763	3345
	9 9 14 28	1	21 24 57.807	66 25 20.39	9012	1198	3256
	9 9 14 28	1	21 20 50.132	68 7 19.44	9012	1198	3257
	9 9 21 40	10	6 50 29.960	54 28 53.98	9006	8481	3863
	9 9 21 40	10	7 4 11.905	54 6 46.98	9006	8481	3864
	9 9 23 28	1	6 56 49.982	54 24 9.95	9008	4016	3896
	9 9 23 30	1	21 43 29.593	61 46 1.89	9006	8485	3865
	9 9 23 31	1	21 37 49.031	63 59 4.72	9006	8485	3866
	9 10 4 54	1	0 2 24.206	60 33 31.97	9004	415	3847
	9 10 4 54	1	0 5 12.074	61 40 26.78	9004	415	3848
	9 10 8 23	1	23 21 10.868	25 5 35.26	9010	1006	3441
	9 10 8 23	1	23 23 54.381	26 33 18.19	9010	1006	3442
	9 10 8 23	1	23 27 3.876	28 12 45.89	9010	1006	3443
	9 10 8 23	1	23 30 2.741	29 44 22.90	9010	1006	3444
	9 10 8 23	1	23 33 10.854	31 18 6.77	9010	1006	3445
	9 10 8 27	1	6 56 20.348	70 12 27.53	9010	1007	3572
	9 10 10 16	1	7 10 45.484	69 34 13.13	9010	1007	3715
	9 10 10 16	1	6 4 45.662	58 27 33.39	9001	1581	3021
	9 10 10 16	1	6 14 15.752	58 21 16.17	9001	1581	3022
	9 10 13 50	1	21 16 50.788	83 58 25.82	9012	1212	3258
	9 10 13 50	1	21 9 57.421	84 36 58.20	9012	1212	3259
	9 10 22 52	1	21 41 2.015	69 20 34.97	9006	8500	3867
	9 10 22 52	1	21 36 40.907	71 0 12.39	9006	8500	3868
	9 11 0 40	1	21 38 28.245	70 28 31.79	9008	4034	3894
	9 11 0 40	1	21 36 6.839	71 18 25.91	9008	4034	3895
	9 11 9 36	1	21 36 16.049	37 35 4.57	9010	1027	3451
	9 11 9 37	1	21 35 52.786	38 25 25.49	9010	1027	3452
	9 11 10 49	1	2 22 12.039	-66 27 38.54	9003	5791	3554
	9 11 10 49	1	2 19 33.703	-65 50 12.59	9003	5791	3555
	9 11 11 29	1	21 11 7.825	77 3 54.09	9001	1599	3710
	9 11 13 12	1	7 41 11.483	81 58 31.39	9012	1231	3260
	9 12 0 2	1	10 6 33.343	86 43 9.31	9008	4053	3892
	9 12 0 3	1	10 13 50.513	85 12 23.74	9008	4053	3893
	9 12 9 0	1	21 12 59.790	61 13 55.57	9010	1033	3574
	9 12 9 0	1	21 10 24.815	62 46 52.77	9010	1033	3575
	9 12 10 11	1	1 40 3.768	-56 13 54.98	9003	5803	3552
	9 12 10 11	1	1 36 36.746	-54 33 35.12	9003	5803	3553
	9 12 10 48	1	22 12 50.928	48 51 29.22	9001	1609	3711
	9 12 10 48	1	22 13 8.374	49 47 33.82	9001	1609	3229
	9 12 10 48	1	22 13 8.374	49 47 33.82	9001	1609	3229
	9 12 10 48	1	22 13 8.374	49 47 33.82	9001	1609	3229
	9 12 10 48	1	22 13 8.374	49 47 33.82	9001	1609	3229

DATE	TIME (A-1)	RMS	R.A. (1950.0)	DECL. (1950.0)	STATION	FRAME NO.	SRS. NO.
Y M D	H M S	MS	H M S	D M S			
1963	9 13	1	20 27 54.498	63 36 35.00	9008	4073	3889
	9 13	1	20 18 37.329	65 14 39.73	9008	4073	3890
	9 13	1	17 48 5.275	75 11 32.00	9008	4074	3566
	9 13	1	17 38 29.551	75 21 41.13	9008	4074	3567
	10 10	1	23 32 49.412	73 3 40.94	9001	1621	3230
	9 13	1	23 38 45.770	74 3 18.13	9001	1621	3231
	9 13	1	0 14 46.388	-68 4 48.42	9003	5828	3351
	9 13	1	0 16 25.590	-66 47 28.47	9003	5828	3352
	9 13	1	0 17 57.877	-65 29 58.30	9003	5828	3353
	9 13	1	0 19 24.350	-64 12 10.61	9003	5828	3354
	9 13	1	0 20 46.290	-62 54 20.31	9003	5828	3355
	9 13	1	20 12 28.633	-10 35 29.99	9003	5833	3361
	9 13	1	20 17 49.884	-9 29 29.57	9003	5833	3362
	9 13	1	20 23 8.610	-8 22 51.28	9003	5833	3363
	9 13	1	20 28 24.801	-7 15 47.81	9003	5833	3364
	9 13	1	20 33 38.652	-6 8 31.48	9003	5833	3365
	9 13	1	0 58 4.357	-56 39 3.32	9011	516	3244
	9 13	1	0 56 13.093	-54 25 54.14	9011	516	3245
	9 14	1	21 1 12.028	46 35 47.06	9008	4088	3564
	9 14	1	20 58 50.336	48 24 8.90	9008	4088	3565
	9 14	1	14 57 44.884	76 42 40.29	9008	4089	1653
	9 14	1	14 38 29.756	76 12 40.23	9008	4089	1654
	9 14	1	21 50 25.092	48 41 32.53	9010	1058	3461
	9 14	1	5 1 33.741	+17 34 32.38	9001	1630	3031
	9 14	1	21 51 56.763	50 5 19.75	9010	1058	3462
	9 14	1	5 4 44.927	+18 0 .12	9001	1630	3032
	9 14	1	21 53 43.461	51 39 49.41	9010	1058	3463
	9 14	1	5 8 17.108	+18 27 48.66	9001	1630	3033
	9 14	1	21 55 26.650	53 6 24.09	9010	1058	3464
	9 14	1	5 11 29.072	+18 52 19.99	9001	1630	3034
	9 14	1	21 57 14.593	54 33 2.33	9010	1058	3465
	9 14	1	6 18 9.084	72 49 35.39	9001	1633	3232
	9 14	1	6 23 3.181	72 37 2.14	9001	1633	3233
	9 14	1	13 29 23.857	73 16 46.92	9001	1635	3234
	9 14	1	13 26 22.220	73 2 54.84	9001	1635	3235
	9 14	1	0 38 9.815	-35 58 27.97	9011	538	3246
	9 15	1	16 54 40.066	-66 50 29.00	9011	542	2457
	9 15	1	17 3 16.736	-66 58 .29	9011	542	1647
	9 15	1	21 45 17.487	24 21 59.30	9009	9036	3421
	9 15	1	21 48 44.218	25 54 13.10	9009	9036	3422
	9 15	1	21 52 16.384	27 26 45.15	9009	9036	3423
	9 15	1	21 55 54.398	28 59 25.85	9009	9036	3424
	9 15	1	21 59 38.382	30 32 8.30	9009	9036	3425
	9 15	1	0 36 6.903	-44 51 .16	9003	5866	3995
	9 15	1	0 35 9.934	-41 34 2.84	9003	5866	3560

DATE		TIME (A-1)		RMS	R.A. (1950.0)		DECL. (1950.0)		STATION	FRAME NO.	CRS. NO.
Y	M D	H M S	H M S	MS	H	M S	D	M S			
1963	9 15	10 44	26.2276	1	20 49	9.186	54 49	11.84	9001	1638	02
	9 15	10 44	34.2283	1	20 46	45.056	56 15	41.96	9001	1638	04
	9 15	10 49	2.8900	1	12 2	43.635	69 56	.64	9001	1639	06
	9 15	11 57	20.5195	1	16 26	.847	-56 3	19.15	9003	5872	07
	9 15	11 57	26.1122	1	16 33	28.742	-56 10	10.25	9003	5872	07
	9 15	11 57	31.7051	1	16 41	10.632	-56 15	23.84	9003	5872	07
	9 15	11 57	37.2978	1	16 49	7.125	-56 18	59.99	9003	5872	07
	9 15	11 57	42.8905	1	16 57	16.192	-56 20	47.09	9003	5872	07
	9 15	23 19	57.0866	1	15 25	28.102	83 26	52.03	9008	4115	05
	9 16	0 31	50.2884	1	21 4	33.943	-70 18	4.75	9011	558	05
	9 16	0 31	58.2880	1	21 20	27.440	-68 40	48.74	9011	558	07
	9 16	6 20	20.5537	1	2 38	48.638	-15 29	57.86	9001	1647	05
	9 16	6 20	26.1466	1	2 41	31.069	-14 49	8.82	9001	1647	05
	9 16	6 20	31.7395	1	2 44	13.280	-14 8	28.77	9001	1647	05
	9 16	6 20	37.3323	1	2 46	55.027	-13 27	52.95	9001	1647	05
	9 16	6 20	42.9251	1	2 49	36.438	-12 47	24.64	9001	1647	05
9 16	8 14	59.7390	1	4 25	37.496	50 51	14.20	9001	1648	07	
9 16	8 15	5.3320	1	4 33	43.571	50 56	4.64	9001	1648	07	
9 16	8 15	10.9248	1	4 41	36.980	50 58	42.21	9001	1648	07	
9 16	8 15	16.5177	1	4 49	17.735	50 59	23.24	9001	1648	07	
9 16	8 15	22.1106	1	4 56	45.228	50 58	13.92	9001	1648	07	
9 16	10 7	9.3538	1	19 41	52.775	76 5	21.75	9001	1651	05	
9 16	10 10	13.3661	10	10 56	43.524	67 38	1.30	9001	1652	07	
9 16	10 10	17.3663	10	10 55	15.952	67 4	36.89	9001	1652	08	
9 16	11 23	45.2329	1	23 15	25.932	-11 58	20.42	9003	5895	08	
9 16	11 23	50.8258	1	23 17	32.535	-10 54	35.46	9003	5895	08	
9 16	11 23	56.4188	1	23 19	35.897	-9 52	19.76	9003	5895	08	
9 16	11 24	2.0117	1	23 21	36.335	-8 51	33.50	9003	5895	08	
9 16	11 24	7.6045	1	23 23	33.751	-7 52	12.15	9003	5895	08	
9 16	23 55	17.8820	1	23 32	1.547	-38 1	29.91	9011	581	05	
9 16	23 55	21.8820	1	23 32	51.920	-37 10	8.62	9011	581	06	
9 17	1 43	4.4597	1	16 3	24.505	-31 12	55.84	9011	585	04	
9 17	1 43	12.4597	1	16 8	45.110	-30 52	51.83	9011	585	06	
9 17	5 41	20.8802	1	21 46	40.823	-14 12	23.65	9010	1080	07	
9 17	5 41	26.4729	1	21 49	22.902	-13 24	11.84	9010	1080	07	
9 17	5 41	32.0657	1	21 52	8.410	-12 34	33.90	9010	1080	07	
9 17	5 41	37.6585	1	21 54	57.200	-11 43	24.43	9010	1080	07	
9 17	5 41	43.2512	1	21 57	50.184	-10 50	42.13	9010	1080	07	
9 17	9 29	37.1278	1	10 32	47.287	81 41	36.98	9001	1664	07	
9 17	9 29	41.1277	1	10 27	22.530	80 58	30.34	9001	1664	08	
9 17	9 31	14.4415	1	9 54	13.294	66 0	21.46	9001	1665	02	
9 17	10 42	4.3967	1	22 16	3.555	-56 18	59.13	9003	5918	05	
9 17	10 42	8.3965	1	22 19	15.439	-55 17	55.12	9003	5918	07	
9 17	11 20	36.3118	1	19 47	57.427	63 54	15.21	9001	1671	06	
9 17	11 20	40.3120	1	19 44	52.188	64 26	28.35	9001	1671	07	

DATE	TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	ORS.NO.				
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S				
1963	9	17	11	24	10.1269	1	13	14	12.961	69	33	47.18	4	9001	1672	06	3338
	9	17	11	24	14.1269	1	13	9	21.725	69	6	34.93	4	9001	1672	07	3339
	9	17	16	41	38.6753	3	8	13	10.566	62	2	30.01	4	9005	8895	06	3583
	9	18	6	54	1.4263	1	0	47	56.783	-3	17	44.48	3	9001	1674	08	3061
	9	18	6	54	7.0191	1	0	52	58.956	-2	13	44.49	3	9001	1674	08	3062
	9	18	6	54	12.6120	1	0	58	3.681	-1	9	20.18	3	9001	1674	08	3063
	9	18	6	54	18.2048	1	1	3	11.285	-0	4	41.15	3	9001	1674	08	3064
	9	18	6	54	23.7976	1	1	8	21.456	1	0	5.93	3	9001	1674	08	3065
	9	18	8	45	52.8310	1	20	53	16.165	32	31	31.75	3	9001	1677	05	3071
	9	18	8	45	58.4238	1	20	54	7.872	33	42	36.06	3	9001	1677	05	3072
	9	18	8	46	4.0166	1	20	55	.372	34	54	50.66	3	9001	1677	05	3073
	9	18	8	46	9.6094	1	20	55	54.373	36	8	23.97	3	9001	1677	05	3074
	9	18	8	46	15.2021	1	20	56	49.280	37	23	4.35	3	9001	1677	05	3075
	9	18	10	4	54.1400	1	23	21	33.246	-33	26	52.83	4	9003	5943	06	3713
	9	18	11	54	38.3239	1	17	34	34.971	-20	12	19.55	3	9003	5948	06	3391
	9	18	11	54	43.9167	1	17	39	27.600	-19	27	5.93	3	9003	5948	06	3392
	9	18	11	54	49.5095	1	17	44	21.921	-18	40	23.39	3	9003	5948	06	3393
	9	18	11	54	55.1023	1	17	49	17.253	-17	52	20.57	3	9003	5948	06	3394
	9	18	11	55	.6950	1	17	54	13.498	-17	2	48.46	3	9003	5948	06	3395
	9	18	19	5	6.0431	1	16	2	40.534	-40	24	11.82	3	9002	4610	08	3241
	9	18	19	5	11.6358	1	16	6	58.449	-40	12	20.61	3	9002	4610	08	3242
	9	18	19	5	17.2287	1	16	11	20.557	-39	59	29.04	3	9002	4610	08	3243
	9	18	19	5	22.8214	1	16	15	47.023	-39	45	36.95	3	9002	4610	08	3244
	9	18	19	5	28.4141	1	16	20	17.943	-39	30	37.43	3	9052	4610	08	3245
	9	18	23	16	25.2984	1	14	56	5.327	76	45	7.80	4	9008	4150	03	3903
	9	19	2	50	42.2594	1	20	9	21.586	81	28	39.07	3	9004	482	05	3271
	9	19	2	50	47.8522	1	19	58	17.464	82	46	12.12	3	9004	482	05	3272
	9	19	2	50	53.4450	1	19	42	27.423	84	1	41.47	3	9004	482	05	3273
	9	19	2	50	59.0380	1	19	18	21.385	85	13	57.03	3	9004	482	05	3274
	9	19	2	51	4.6309	1	18	38	58.381	86	20	20.13	3	9004	482	05	3275
	9	19	10	4	12.4964	1	16	4	39.131	77	11	26.50	4	9001	1686	04	3340
	9	19	10	4	20.4966	1	15	39	23.644	77	24	9.52	4	9001	1686	06	3341
	9	19	11	15	27.4670	1	17	15	19.202	-34	28	55.67	3	9003	5974	07	3401
	9	19	11	15	33.0598	1	17	21	33.032	-33	51	12.04	3	9003	5974	07	3402
	9	19	11	15	38.6526	1	17	27	49.219	-33	11	23.16	3	9003	5974	07	3403
	9	19	11	15	44.2453	1	17	34	6.844	-32	29	24.49	3	9003	5974	07	3404
	9	19	11	15	49.8381	1	17	40	25.916	-31	45	16.89	3	9003	5974	07	3405
	9	19	17	16	29.2660	1	10	30	10.797	69	59	41.34	4	9005	8918	13	3717
	9	19	18	28	56.5371	1	19	2	21.079	-38	30	.52	4	9002	4629	10	3857
	9	19	18	29	4.5368	1	19	12	22.508	-36	55	59.49	4	9002	4629	12	3858
	9	20	17	51	30.8821	1	21	24	14.604	-27	53	13.12	4	9002	4648	10	5008
	9	20	17	51	42.8821	1	21	32	53.111	-24	43	18.53	4	9002	4648	13	3860
	9	21	1	1	.8394	1	16	12	22.083	-13	48	59.72	4	9011	677	06	1652
	9	21	6	51	8.0446	1	0	8	57.135	45	43	20.56	3	9001	1717	10	3101
	9	21	6	51	13.6375	1	0	18	9.032	46	52	38.02	3	9001	1717	10	3102

DATE		TIME (A-1)		RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	ORS. NO.	
Y	M D	H	M S	MS	H	M	S	D	M	S				
1963	9 21	6 51	19.2305	1	0 27	36.671		47 58	16.44	3	9001	1717	10	3103
	9 21	6 51	24.8234	1	0 37	18.974		49 0	3.78	3	9001	1717	10	3104
	9 21	6 51	30.4164	1	0 47	15.202		49 57	38.89	3	9001	1717	10	3105
	9 21	10 39	36.1821	10	15 59	31.625		75 2	7.79	4	9001	1722	03	3342
	9 21	10 39	48.1835	1	15 28	33.681		75 10	51.85	4	9001	1722	06	3343
9 22	0 24	9.5565	1	18 13	53.302		-71 25	25.98	4	9007	200	09	3240	
9 22	0 24	13.5565	1	18 22	11.779		-71 9	48.73	4	9007	200	10	3241	
9 22	4 20	6.3584	1	20 48	28.937		- 0 28	2.32	3	9010	1093	09	3491	
9 22	4 20	11.7901	1	20 51	24.936		0 36	42.89	3	9010	1093	09	3492	
9 22	4 20	23.7112	1	20 58	7.307		3 5	6.24	3	9010	1093	09	3494	
9 22	4 20	29.2207	1	21 1	21.662		4 16	33.26	3	9010	1093	09	3495	
9 22	4 25	40.7415	1	3 37	3.733		56 54	51.95	3	9010	1094	07	3501	
9 22	4 25	46.2511	1	3 43	47.357		56 46	29.36	3	9010	1094	07	3502	
9 22	4 25	52.4678	1	3 51	6.186		56 35	43.54	3	9010	1094	07	3503	
9 22	4 25	58.0765	1	3 57	27.459		56 25	4.94	3	9010	1094	07	3504	
9 22	4 26	3.7489	1	4	3 40.318		56 13	26.91	3	9010	1094	07	3505	
9 22	18 23	12.9911	1	16 15	50.871		-18 19	39.07	3	9002	4688	06	3251	
9 22	18 23	18.5838	1	16 19	29.560		-17 40	16.47	3	9002	4688	06	3252	
9 22	18 23	24.1767	1	16 23	9.721		-16 59	42.53	3	9002	4688	06	3253	
9 22	18 26	49.9529	1	18 48	39.195		17 16	.83	4	9002	4689	04	3861	
9 22	18 26	57.9537	1	18 54	18.823		18 38	14.95	4	9002	4689	06	3862	
9 22	23 47	4.6501	1	22 8	39.692		-57 22	31.87	4	9007	219	05	3897	
9 22	23 47	8.6503	1	22 10	48.319		-56 31	29.53	4	9007	219	06	3898	
9 23	17 46	49.9177	1	18 19	43.890		- 4 11	6.10	3	9002	4715	04	3261	
9 23	17 46	55.5105	1	18 24	36.471		- 2 59	46.63	3	9002	4715	04	3262	
9 23	17 47	1.1034	1	18 29	26.597		- 1 48	23.82	3	9002	4715	04	3263	
9 23	17 47	6.6962	1	18 34	14.573		- 0 37	5.70	3	9002	4715	04	3264	
9 23	17 47	12.2890	1	18 39	.522		0 34	5.69	3	9002	4715	04	3265	
9 24	3 24	7.7700	1	11 3	11.490		70 18	56.38	4	9004	572	05	3585	
9 24	4 56	34.4480	1	18 59	33.940		43 45	46.06	3	9010	1099	05	3511	
9 24	4 56	40.0408	1	18 59	58.939		44 58	33.91	3	9010	1099	05	3512	
9 24	4 56	45.6337	1	19 0	23.772		46 11	57.58	3	9010	1099	05	3513	
9 24	4 56	51.2264	1	19 0	48.073		47 25	54.53	3	9010	1099	05	3514	
9 24	4 56	56.8192	1	19 1	11.611		48 40	15.79	3	9010	1099	05	3515	
9 24	10 36	43.7577	1	13 13	35.841		74 55	37.87	4	9001	1752	07	3344	
9 24	23 16	4.3141	1	11 39	50.621		73 25	36.70	4	9006	8651	03	3869	
9 24	23 16	20.3148	1	11 22	55.528		70 36	.88	4	9006	8651	07	3870	
9 25	4 38	13.0607	1	9 20	42.777		74 42	36.09	4	9004	596	05	3586	
9 25	4 38	17.0607	1	9 21	7.029		73 40	51.81	4	9004	596	06	3587	
9 25	9 56	50.5639	1	14 53	3.166		75 52	39.66	4	9001	1768	04	3345	
9 25	9 56	58.5638	1	14 30	55.648		75 50	45.22	4	9001	1768	06	3346	
9 25	11 51	58.5979	1	9 23	41.463		71 49	16.67	4	9001	1774	03	3347	
9 25	11 52	6.5980	1	9 25	45.124		69 48	34.91	4	9001	1774	05	3348	
9 25	23 44	.8152	1	19 38	43.881		-23 52	1.50	4	9007	266	02	3899	
9 25	23 44	2.8154	1	19 40	32.669		-23 19	52.63	4	9007	266	03	3900	

DATE	TIME (A-1)	RMS	R.A. (1950.0)	DECL. (1950.0)	STATION	FRAME NO.	CRS. NO.						
Y	M	D	H	M	S	D	M	S					
1963	9	26	2	7	35.7101	1	9 21 44.374	54 43 45.44	4	9004	611	03	3588
	9	26	3	59	12.7618	1	9 55 39.449	73 17 38.88	4	9004	613	03	3589
	9	26	5	30	4.1367	1	0 45 46.078	60 25 20.38	3	9001	1787	08	3141
	9	26	5	30	9.7296	1	0 58 1.733	60 45 16.98	3	9001	1787	08	3142
	9	26	5	30	15.3225	1	1 10 13.706	61 0 29.75	3	9001	1787	08	3143
	9	26	5	30	20.9154	1	1 22 17.061	61 11 31.99	3	9001	1787	08	3144
	9	26	5	30	26.5083	1	1 34 7.914	61 18 28.24	3	9001	1787	08	3145
	9	26	11	12	35.6137	1	10 21 22.757	75 18 30.45	4	9001	1797	02	3849
	9	26	11	12	43.6147	1	10 14 58.760	73 33 51.19	4	9001	1797	04	3850
	9	26	21	57	39.6744	1	11 59 5.674	71 27 4.16	4	9006	8667	04	3871
9	26	21	57	47.6745	1	11 48 4.160	70 28 7.91	4	9006	8667	06	3872	
9	27	5	13	50.9082	1	5 58 52.726	49 32 42.77	4	9004	637	02	3590	
9	27	5	13	52.9083	1	6 2 1.487	49 2 20.90	4	9004	637	03	3591	
9	27	10	33	45.2866	1	10 32 30.155	70 46 56.72	4	9001	1809	02	3853	
9	27	10	33	53.2832	1	10 25 28.589	69 14 34.95	4	9001	1809	04	3854	
9	27	23	6	27.0005	1	11 42 51.887	70 22 52.73	4	9008	4297	06	3922	
9	28	0	18	7.0516	1	16 26 29.871	9 8 37.97	4	9007	302	02	3901	
9	28	1	0	58.7694	1	8 27 15.794	62 12 29.96	4	9008	4304	03	3923	
9	28	1	1	6.7695	1	8 31 36.881	60 5 29.58	4	9008	4304	07	3924	
9	28	2	42	26.6722	1	9 18 57.689	56 2 24.75	4	9004	647	05	3592	
9	28	2	42	30.6722	1	9 17 54.568	55 18 53.12	4	9004	647	06	3593	
9	28	4	34	30.8624	1	6 8 35.704	62 59 43.13	4	9004	658	02	3594	
9	28	15	26	1.1506	1	7 46 58.911	74 43 1.95	4	9012	1418	04	3855	
9	28	15	26	7.1506	1	7 55 17.082	73 32 54.72	4	9012	1418	07	3856	
9	28	22	34	7.5830	1	9 16 3.845	62 3 15.95	4	9006	8703	03	5009	
9	28	22	34	26.6061	1	9 15 39.021	57 38 19.79	4	9006	8703	07	3874	
9	29	3	56	16.6598	1	7 42 15.660	54 35 48.41	4	9004	678	01	3595	
9	29	11	9	20.9087	1	7 2 16.204	62 11 10.41	4	9001	1848	02	3851	
9	29	11	9	22.9087	1	7 4 36.045	61 38 28.08	4	9001	1848	03	5010	
9	29	21	54	46.7618	1	9 40 5.162	65 7 29.97	4	9006	8714	03	3562	
9	29	21	55	10.7621	1	9 31 44.095	60 16 48.73	4	9006	8714	09	3563	
9	29	23	43	7.1598	1	9 24 51.490	59 32 41.65	4	9008	4329	07	3926	
9	30	3	15	54.1777	1	7 29 53.225	78 6 6.94	3	9004	692	05	3291	
9	30	3	15	59.7705	1	7 34 58.270	76 38 50.76	3	9004	692	05	3292	
9	30	3	16	5.3634	1	7 39 9.998	75 10 56.19	3	9004	692	05	3293	
9	30	3	16	10.9562	1	7 42 43.266	73 42 29.26	3	9044	692	05	3294	
9	30	3	16	16.5490	1	7 45 45.394	72 13 36.51	3	9044	692	05	3295	
9	30	5	9	47.0835	1	3 56 59.478	17 14 20.00	4	9004	701	04	3596	
9	30	21	16	59.1497	1	9 19 52.110	50 34 55.81	4	9006	8734	08	3561	
9	30	23	4	45.0473	1	9 17 21.751	51 40 10.44	4	9008	4351	06	3927	
10	1	0	21	38.2984	1	17 33 17.949	18 21 19.35	4	9009	9159	05	6330	
10	1	0	21	44.2985	1	17 36 12.026	19 50 24.62	4	9009	9159	08	6331	
10	1	0	56	49.5458	1	4 48 43.115	45 21 50.15	4	9008	4362	03	6595	
10	1	0	56	55.5461	1	4 57 47.274	43 56 58.05	4	9008	4362	06	6596	
10	1	4	31	34.2510	1	5 7 24.030	20 0 38.19	4	9004	719	04	6900	

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.	RHS. NO.
1963 10 1	4	31	42.2508	1	5	15	57.792	18	6	32.96	9004	719	9440
10 1	5	45	31.7036	1	19	36	8.761	-14	54	1.10	9012	1438	6913
10 1	5	45	35.7036	1	19	39	9.508	-14	6	31.20	9012	1438	6914
10 1	9	53	7.6195	1	8	30	27.858	40	3	36.57	9001	1877	7060
10 1	9	53	23.6198	1	8	31	10.324	36	52	2.47	9001	1877	6675
10 1	15	23	56.6587	1	6	0	15.769	26	54	5.11	9012	1450	6915
10 1	15	24	4.6588	1	6	8	27.338	24	35	24.77	9012	1450	6916
10 1	16	35	10.2816	1	18	22	36.783	-14	36	44.31	9008	4368	6780
10 2	0	18	33.6597	1	6	33	15.844	44	19	20.03	9008	4373	6781
10 2	3	23	39.7767	1	18	17	25.406	-9	20	40.64	9001	1896	7061
10 2	3	23	47.7767	1	18	20	37.450	-8	18	40.02	9001	1896	7062
10 2	23	41	13.4168	1	7	50	29.543	24	37	38.53	9008	4394	6782
10 3	1	30	24.6534	1	1	50	55.238	10	12	15.85	9008	4401	6783
10 3	9	57	31.1049	1	20	28	9.212	-15	7	13.37	9005	8950	7285
10 3	9	57	35.1049	1	20	31	5.226	-14	33	46.18	9005	8950	7286
10 3	10	28	41.5157	1	6	44	50.982	12	12	8.41	9001	1916	6677
10 3	10	28	47.5161	1	6	47	53.414	10	54	41.40	9001	1916	6678
10 3	15	19	49.0196	1	20	51	55.748	-8	13	42.96	9008	4404	6917
10 3	20	46	44.9458	1	18	4	53.086	2	39	47.16	9004	745	6610
10 3	20	46	48.9457	1	18	6	22.910	3	15	17.38	9004	745	6611
10 4	0	54	6.0488	1	4	1	15.034	-7	45	24.07	9008	4418	6784
10 4	0	54	12.0485	1	4	6	26.107	-8	55	24.92	9008	4418	6785
10 4	14	45	28.6687	1	17	23	45.22.01	33	45	22.01	9006	8764	5924
10 4	20	9	10.4730	1	19	4	10.872	8	51	53.33	9004	761	6612
10 4	20	9	18.4732	1	19	10	3.773	10	28	50.26	9004	761	6613
10 4	22	28	55.4578	10	5	50	35.564	-14	34	46.68	9006	8775	5925
10 4	22	28	59.4576	10	5	53	9.369	-15	11	39.44	9006	8775	5926
10 5	0	16	30.1271	1	5	32	36.075	-13	1	19.50	9008	4434	6786
10 5	9	16	54.7362	1	5	20	45.006	-17	18	51.99	9010	1142	4873
10 5	9	20	29.0541	1	4	36	33.423	-0	23	49.87	9009	9178	6332
10 5	14	6	59.6100	1	18	10	22.416	35	19	53.88	9006	8779	5927
10 5	14	42	3.1520	1	4	51	42.592	-13	18	8.03	9012	1463	6768
10 5	14	42	9.1519	1	4	56	44.440	-14	36	42.08	9012	1463	6769
10 5	15	54	38.8385	1	17	56	55.408	30	29	10.23	9008	4442	6787
10 5	16	0	10.1180	1	15	47	42.064	50	25	55.38	9006	8782	5928
10 5	19	30	55.2279	1	20	1	8.146	7	23	17.45	9004	776	6614
10 5	19	30	57.2281	1	20	3	.716	7	46	58.42	9004	776	6615
10 5	21	21	58.8004	1	16	50	1.645	25	17	1.37	9004	779	6616
10 5	23	40	13.1886	1	2	11	29.665	-20	15	30.83	9006	8790	5929
10 6	0	55	8.3029	1	17	11	25.580	54	33	5.68	9010	1148	7142
10 6	0	55	24.3003	1	17	20	33.827	58	37	6.92	9010	1148	7143
10 6	6	18	4.7118	1	15	24	22.964	49	1	45.02	9012	1469	6770
10 6	15	15	12.5753	1	18	11	8.558	13	50	58.25	9008	4458	6788
10 6	15	21	18.9522	1	15	39	31.070	52	17	39.16	9006	8799	5930
10 6	15	21	26.9522	1	15	37	58.652	53	43	26.50	9006	8799	5931

DATE	Y	M	D	TIME (A-1)		RMS MS	R.A. (1950.0)		DECL. (1950.0)		STATION	FRAME NO.	ORS.NO.
				H	M		H	M	D	M			
1963	10	6		20	43	36.6924	16	53	28	7	9004	794	6617
	10	6		20	43	44.6925	16	55	29	40	9004	794	6618
	10	6		23	3	30.2137	16	55	34	40	9006	8809	5932
	10	7		2	4	52.5388	19	4	37	4	9001	1977	6679
	10	7		2	5	.5377	19	14	39	8	9001	1977	7063
	10	7		3	56	49.8014	15	53	44	9	9001	1981	7064
	10	7		3	57	1.8009	15	52	46	10	9001	1981	7065
	10	7		14	42	30.8259	15	40	55	2	9006	8816	5933
	10	7		14	42	46.8259	15	38	58	19	9006	8816	5934
	10	7		20	6	6.1445	17	40	44	17	9004	811	6619
	10	7		20	6	8.1446	17	41	44	49	9004	811	6620
	10	7		21	58	3.2244	16	11	42	54	9004	814	6621
	10	8		3	18	41.5810	15	45	53	28	9001	1997	7066
	10	8		3	18	49.5815	15	45	55	7	9001	1997	7067
	10	8		14	3	25.6850	15	55	54	0	9006	8829	7718
	10	8		14	3	29.6855	15	55	54	56	9006	8829	5935
	10	8		19	27	14.1490	18	15	39	58	9004	827	6622
	10	8		19	27	20.1491	18	21	41	34	9004	827	6623
	10	8		21	19	.5807	15	57	41	45	9004	831	7717
	10	9		0	51	4.6402	15	1	56	16	9010	1167	7144
	10	9		0	51	12.6400	15	0	57	47	9010	1167	7145
	10	9		13	24	20.6326	16	22	51	25	9006	8846	5554
	10	9		13	24	32.6327	16	27	54	31	9006	8846	5555
	10	9		15	12	11.7976	16	19	49	51	9008	4504	5571
	10	9		15	12	15.7977	16	20	50	52	9008	4504	5572
	10	9		20	40	46.2288	15	47	49	7	9004	850	8327
	10	9		20	40	50.2287	15	47	49	54	9004	850	7079
	10	10		0	11	58.9999	15	13	55	53	9010	1180	4874
	10	10		0	12	7.0000	15	13	57	37	9010	1180	4875
	10	10		2	1	17.2933	16	34	61	18	9001	2029	7068
	10	10		2	1	25.2934	16	40	63	21	9001	2029	7069
	10	10		3	54	15.1815	14	43	58	42	9001	2033	7070
	10	10		3	54	23.1818	14	40	59	53	9001	2033	7071
	10	10		14	39	50.1445	13	46	67	9	9006	8865	5556
	10	10		20	2	23.9676	15	49	56	50	9004	867	6585
	10	10		20	2	27.9675	15	50	57	46	9004	867	6586
	10	11		3	15	12.5396	14	30	59	19	9001	2057	7072
	10	11		3	15	28.5398	14	22	61	54	9001	2057	7073
	10	11		13	59	57.7383	14	11	60	41	9006	8882	5557
	10	11		14	0	1.7384	14	10	61	22	9006	8882	5558
	10	11		21	16	8.2006	15	11	54	34	9004	886	6587
	10	11		21	16	20.2004	15	7	56	28	9004	886	6588
	10	12		6	32	58.0933	0	30	54	43	9010	1196	3671
	10	12		6	33	3.6274	0	39	54	7	9010	1196	3672
	10	12		6	33	9.8129	0	50	53	22	9010	1196	3673

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.	SRS.NO.
1963 10 12	6 33 15.4179	1	1 0 37.132	52 37 11.52	9010	1196	07 3674
10 12	6 33 21.1058	1	1 10 26.211	51 47 15.60	9010	1196	07 3675
10 12	9 46 55.8903	1	15 19 35.951	59 12 6.21	9005	8988	06 7287
10 12	11 40 11.0513	1	14 50 38.141	59 56 55.45	9005	8991	08 7288
10 12	18 48 32.3090	1	2 4 24.473	61 41 21.10	9004	894	02 6589
10 12	18 48 48.3089	1	2 13 57.073	59 30 8.84	9004	894	06 6590
10 12	20 37 19.0199	1	14 49 40.093	56 51 4.09	9004	898	02 6591
10 12	20 37 35.0199	1	14 44 46.352	59 37 50.37	9004	898	06 6592
10 13	1 57 40.2220	1	14 11 20.552	67 22 30.48	9001	2082	03 4868
10 13	1 57 52.2198	1	14 4 47.976	69 46 38.43	9001	2082	06 4869
10 13	19 58 57.1998	1	14 23 34.177	64 43 38.26	9004	921	01 6593
10 13	19 59 9.1999	1	14 17 20.016	67 4 4.30	9004	921	04 7124
10 14	2 0 39.6682	10	3 28 23.291	20 9 32.14	9002	5183	01 7469
10 14	2 0 43.6678	10	3 30 32.256	19 37 24.74	9002	5183	02 7470
10 14	3 13 2.4236	1	12 11 39.251	72 37 17.53	9001	2110	03 4870
10 14	13 57 29.1008	1	12 3 42.862	70 40 30.96	9006	8931	03 8293
10 14	13 57 45.1010	1	11 40 24.503	72 18 5.97	9006	8931	07 5560
10 14	18 11 52.6655	1	5 10 57.554	28 14 17.97	9003	6487	03 6323
10 14	18 12 4.4651	1	5 19 1.220	26 45 15.67	9003	6487	06 6324
10 14	19 20 2.3052	1	14 18 52.938	67 4 44.66	9004	939	02 7481
10 14	19 20 10.3053	1	14 15 29.608	68 47 35.36	9004	939	04 7482
10 15	2 33 28.2757	1	12 32 28.782	70 11 42.79	9001	2128	01 4871
10 15	2 33 32.2756	1	12 27 18.207	70 42 15.39	9001	2128	02 4872
10 15	8 40 38.7243	1	5 38 5.339	-39 46 23.71	9011	988	04 7677
10 15	8 40 44.7242	1	5 46 16.466	-41 13 49.69	9011	988	07 6773
10 15	17 34 46.9481	1	6 38 25.547	18 1 41.24	9003	6504	05 6325
10 15	17 35 2.9486	1	6 48 55.096	15 36 2.58	9003	6504	09 6326
10 15	18 44 50.6727	1	3 13 10.388	63 55 54.19	9004	962	04 6951
10 15	18 44 58.6726	1	3 13 13.695	62 41 25.86	9004	962	06 6952
10 16	0 46 55.1928	10	7 25 5.763	-5 46 .94	9002	5218	06 8325
10 16	0 46 59.1934	10	7 28 2.951	-6 27 18.31	9002	5218	07 7472
10 16	2 35 .4532	10	1 29 12.385	-6 3 46.12	9002	5220	04 7473
10 16	5 48 5.6998	1	4 45 15.189	20 8 46.02	9001	2148	08 3631
10 16	5 48 11.1558	1	4 46 8.999	19 11 19.14	9001	2148	08 3632
10 16	5 48 17.2922	1	4 47 8.804	18 8 9.10	9001	2148	08 3633
10 16	5 48 23.0680	1	4 48 4.108	17 10 .28	9001	2148	08 3634
10 16	5 48 28.6123	1	4 48 56.547	16 15 23.18	9001	2148	08 3635
10 16	9 5 38.8325	1	12 5 49.716	81 27 6.26	9005	9012	09 7289
10 16	16 58 19.7906	1	7 57 2.838	2 37 52.96	9003	6522	03 6327
10 16	16 58 39.7912	1	8 7 7.385	0 14 48.21	9003	6522	08 6328
10 16	17 0 4.5094	1	8 47 50.729	-8 30 51.28	9003	6523	02 7077
10 16	18 46 11.4483	1	2 32 56.988	3 12 44.52	9003	6530	09 6902
10 16	18 46 19.2517	1	2 35 57.059	2 0 31.89	9003	6530	13 6903
10 17	0 9 38.5261	10	8 14 59.339	-10 29 53.33	9002	5238	02 7475
10 17	0 9 46.5261	10	8 19 10.403	-11 23 52.42	9002	5238	04 7476

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.	CHS. NO.
1963 10 17	1 57 51.0924	10	1 58 32.027	-18 30 10.99	9002	5245	05 7477
10 17	1 57 55.0931	10	1 59 51.156	-19 23 31.31	9002	5245	06 68
10 17	5 9 3.4823	1	20 45 16.230	52 14 37.89	9010	1253	08 3691
10 17	5 9 9.0017	1	20 51 7.529	52 18 .52	9010	1253	08 3692
10 17	5 9 15.1734	1	20 57 53.770	52 20 35.82	9010	1253	08 3693
10 17	5 9 20.8446	1	21 4 18.559	52 21 39.32	9010	1253	08 3694
10 17	5 9 26.5033	1	21 10 53.267	52 21 26.48	9010	1253	08 3695
10 17	19 16 52.3999	1	12 26 24.932	74 45 15.28	9004	1006	04 6953
10 17	19 17 .3999	1	12 11 30.699	76 1 49.61	9004	1006	06 6954
10 17	21 9 9.8947	1	14 55 43.080	63 27 52.83	9004	1010	05 6955
10 17	21 9 13.8947	1	14 55 4.558	64 5 17.89	9004	1010	06 6956
10 18	1 20 16.6165	10	3 14 6.996	-31 58 59.11	9002	5264	03 7478
10 19	7 58 18.0801	1	4 27 42.729	-65 19 38.28	9011	1042	02 6774
10 19	7 58 30.0800	1	4 53 49.379	-67 43 28.11	9011	1042	08 6775
10 19	16 55 6.6175	1	8 9 55.781	-24 27 17.00	9003	6569	03 6904
10 19	18 42 49.9879	1	1 10 54.261	-22 12 32.50	9003	6573	06 6905
10 19	18 42 57.9877	1	1 12 12.903	-23 40 53.75	9003	6573	08 7716
10 19	19 52 4.7238	1	12 44 8.113	74 34 12.36	9004	1026	03 6957
10 19	19 52 8.7237	1	12 38 5.036	75 12 18.22	9004	1026	04 6958
10 20	0 6 4.7093	10	8 21 42.999	-39 38 14.70	9002	5305	01 7479
10 20	0 6 12.7083	10	8 28 17.299	-39 58 14.92	9002	5305	02 7480
10 20	3 14 21.7498	1	3 11 13.843	69 13 32.13	9010	1284	05 3701
10 20	3 14 33.3685	1	3 18 42.589	66 25 47.16	9010	1284	05 3703
10 20	3 14 39.1307	1	3 21 56.224	65 1 16.12	9010	1284	05 3704
10 20	3 14 44.6750	1	3 24 48.076	63 39 19.89	9010	1284	05 3705
10 20	19 13 47.6313	1	9 44 16.242	80 27 2.23	9004	1046	04 6959
10 20	19 13 51.6312	1	9 25 46.727	80 40 5.60	9004	1046	05 9404
10 21	1 16 34.3055	10	0 44 13.002	-50 57 14.27	9002	5334	04 7075
10 21	1 17 2.3062	10	0 49 42.495	-57 34 43.42	9002	5334	11 6319
10 21	2 27 2.1662	1	9 43 53.963	77 31 .95	9001	2195	02 7137
10 21	2 27 14.1664	1	9 6 38.372	77 50 55.76	9001	2195	05 8294
10 21	8 32 45.5630	1	0 18 1.161	-62 52 7.57	9011	1099	04 7678
10 21	8 32 53.5625	1	0 15 31.068	-64 30 47.66	9011	1099	06 7679
10 21	15 4 27.8492	1	13 32 47.814	72 47 4.16	9006	9029	04 5563
10 21	15 4 31.8492	1	13 29 53.318	73 17 52.02	9006	9029	05 5564
10 21	18 37 3.6373	1	3 36 13.818	63 32 29.21	9004	1067	04 6960
10 21	18 37 7.6373	1	3 34 20.840	62 52 58.00	9004	1067	05 6961
10 21	20 26 26.3111	1	14 53 9.958	65 21 44.42	9004	1074	03 6962
10 21	20 26 30.3111	1	14 53 46.997	66 0 28.93	9004	1074	04 6963
10 22	1 47 56.2255	1	9 2 .834	76 40 1.72	9001	2216	01 9158
10 22	1 48 16.2258	1	8 4 20.662	76 48 36.55	9001	2216	06 9159
10 22	3 47 51.3181	1	20 43 41.052	45 55 2.61	9010	1301	08 3721
10 22	3 47 56.7951	1	20 50 10.576	45 37 1.47	9010	1301	08 3722
10 22	3 48 3.0730	1	20 57 44.858	45 13 58.45	9010	1301	08 3723
10 22	3 48 8.6306	1	21 4 33.917	44 51 16.18	9010	1301	08 3724

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.	CRS.NO.
1963 10 22	3 48 14.3384	1	21 11 39.784	44 25 31.51	9010	1301	3725
10 22	14 26 35.2706	1	9 56 17.035	79 31 57.04	9006	9041	5561
10 22	14 26 51.2707	1	8 59 21.529	79 55 30.12	9006	9041	5562
10 22	16 50 10.0588	1	6 48 4.770	-52 27 32.17	9003	6607	6907
10 22	16 50 16.0585	1	6 57 55.378	-52 46 19.80	9003	6607	6908
10 22	19 48 7.9866	1	13 47 8.315	74 37 31.87	9004	1093	6964
10 22	19 48 15.9867	1	13 43 15.182	76 6 58.45	9004	1093	6965
10 23	3 0 51.4182	10	14 6 27.789	69 16 46.04	9001	2233	8295
10 23	3 8 50.7408	1	20 28 29.855	59 53 32.69	9010	1317	3731
10 23	3 8 56.3606	1	20 38 4.632	59 48 18.64	9010	1317	3732
10 23	3 9 2.4470	1	20 48 41.286	59 39 31.00	9010	1317	3733
10 23	3 9 8.1087	1	20 58 44.948	59 28 14.31	9010	1317	3734
10 23	3 9 13.7695	1	21 8 57.809	59 13 46.19	9010	1317	3735
10 23	13 48 3.5211	1	7 20 35.193	77 7 41.40	9006	9057	5565
10 23	13 48 15.5212	1	6 49 34.331	76 24 11.61	9006	9057	5566
10 23	16 12 49.0595	1	8 20 28.014	-42 9 57.07	9003	6625	6909
10 23	16 13 1.0593	1	8 30 25.894	-42 13 9.91	9003	6625	6910
10 23	19 10 .6035	1	9 47 27.088	83 58 10.27	9004	1114	6966
10 23	19 10 4.6036	1	9 17 6.256	84 15 39.39	9004	1114	6967
10 24	1 12 59.5737	10	23 2 36.904	-56 43 21.24	9002	5353	7714
10 24	1 13 23.5736	10	22 55 1.744	-60 47 19.31	9002	5353	6320
10 24	2 23 3.2424	1	11 16 17.211	80 55 2.49	9001	2249	7140
10 25	1 50 29.2446	1	19 9 8.920	81 22 57.17	9010	1343	3741
10 25	1 50 34.813	1	19 36 47.102	81 42 34.97	9010	1343	3742
10 25	1 50 40.9131	1	20 9 34.865	81 55 42.34	9010	1343	3743
10 25	1 50 46.6376	1	20 42 7.156	81 59 2.75	9010	1343	3744
10 25	1 50 52.3237	1	21 15 9.575	81 52 54.10	9010	1343	3745
10 25	3 45 8.0922	1	21 11 50.399	3 23 27.24	9010	1345	3751
10 25	3 45 13.6013	1	21 15 40.361	2 28 43.72	9010	1345	3752
10 25	3 45 19.8013	1	21 20 .077	1 26 13.20	9010	1345	3753
10 25	3 45 25.4347	1	21 23 57.340	0 28 41.56	9010	1345	3754
10 25	3 45 31.1342	1	21 27 58.173	-0 30 19.86	9010	1345	3755
10 25	14 22 6.5735	1	14 7 36.486	77 27 39.88	9006	9071	5567
10 25	14 22 18.5739	1	14 6 27.308	79 21 24.55	9006	9071	5568
10 25	23 57 16.2863	10	22 40 57.819	-87 18 .13	9002	5398	6321
10 25	23 57 32.2875	10	16 14 20.196	-89 17 43.12	9002	5398	6322
10 26	1 14 5.7801	1	2 36 10.264	56 24 28.21	9010	1353	3761
10 26	1 14 11.3050	1	2 36 57.913	55 6 38.73	9010	1353	3762
10 26	1 14 17.3724	1	2 37 47.886	53 42 1.90	9010	1353	3763
10 26	1 14 23.1344	1	2 38 34.529	52 22 44.22	9010	1353	3764
10 26	1 14 28.7757	1	2 39 20.149	51 4 6.58	9010	1353	3765
10 26	2 57 22.1583	1	16 0 9.177	66 26 18.50	9001	2275	5936
10 27	0 31 47.6797	1	11 0 33.025	84 12 8.11	9010	1367	4876
10 27	0 32 3.6800	1	9 19 32.823	85 33 11.39	9010	1367	4877
10 27	2 19 15.5623	1	15 50 38.192	80 12 45.84	9001	2296	8326

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.	ORS.NO.
1963 10 27	5 57 11.9165	1	9 45 32.148	85 11 40.85	9012	1684	7676
10 27	5 57 15.9165	1	9 20 5.772	85 21 31.97	9012	1684	6772
10 27	13 6 21.4001	1	3 41 36.832	71 9 39.31	9006	9086	5569
10 27	13 6 33.4004	1	3 30 59.648	69 9 34.83	9006	9086	5570
10 29	2 53 43.0310	1	17 26 6.752	49 0 23.82	9001	2326	7136
10 29	5 16 56.6797	1	9 50 17.273	-68 41 55.34	9011	1146	6778
10 29	5 17 8.6797	1	9 58 51.036	-67 2 32.71	9011	1146	6779
10 29	13 40 11.8970	1	18 3 14.850	80 14 12.07	9006	9127	6578
10 29	13 40 27.8973	1	19 22 49.483	80 48 32.40	9006	9127	6579
10 29	16 3 23.6061	1	21 19 20.376	-88 39 16.45	9003	6717	6911
10 29	16 3 35.6062	1	12 46 28.573	-88 38 44.44	9003	6717	6912
10 30	5 53 24.4944	1	17 30 52.479	77 8 56.72	9012	1713	4275
10 30	5 53 32.4945	1	17 50 39.969	77 41 11.55	9012	1713	4276
10 30	9 27 .3630	1	20 48 15.311	56 31 36.56	9005	9073	8296
10 30	9 27 6.3633	1	21 0 16.503	55 29 47.92	9005	9073	7675
10 30	13 2 44.1630	1	0 59 56.490	70 23 23.10	9006	9145	6580
10 30	13 2 48.1633	1	1 1 23.347	69 27 12.95	9006	9145	6581
10 30	14 52 48.2888	1	17 36 56.874	32 41 16.90	9006	9149	6582
10 31	5 15 26.7860	1	23 51 19.014	82 26 33.13	9012	1729	4277
10 31	5 15 38.7863	1	0 15 14.136	80 27 23.59	9012	1729	4278
10 31	14 15 27.9225	1	18 33 25.327	38 53 44.12	9006	9172	6583
10 31	14 15 35.9228	1	18 42 12.291	38 15 13.05	9006	9172	6584
11 1	4 39 29.7279	1	1 51 3.305	45 29 1.04	9012	1740	9869
11 1	4 39 39.7280	1	1 51 30.407	43 33 45.36	9012	1740	9870
11 1	6 28 28.9646	1	18 7 46.522	37 51 20.51	9012	1745	9871
11 1	6 28 32.9646	1	18 10 37.603	37 37 8.06	9012	1745	9872
11 1	13 37 27.0525	1	19 52 46.651	47 47 43.33	9006	9187	9865
11 2	5 50 38.2667	1	18 57 16.811	47 13 48.59	9012	1759	9873
11 2	5 50 40.2668	1	18 59 35.836	47 4 15.02	9012	1759	9874
11 2	12 59 20.7758	1	21 58 .526	49 50 33.87	9006	9198	9866
11 2	14 50 50.1642	1	18 41 36.218	- 1 13 10.06	9006	9202	4819
11 2	14 51 2.1639	1	18 47 49.683	- 2 46 17.20	9006	9202	9508
11 2	23 51 31.3757	1	21 19 20.186	59 1 41.36	9009	9409	9489
11 2	23 51 39.3754	1	21 30 26.185	57 55 26.89	9009	9409	9490
11 3	5 13 19.2938	1	21 48 1.191	46 55 49.27	9012	1769	9875
11 3	5 13 27.2938	1	21 57 56.505	45 1 10.02	9012	1769	9876
11 3	7 4 52.5726	1	18 47 5.079	- 5 17 26.43	9012	1773	9877
11 3	8 45 13.8446	1	20 57 25.407	21 5 45.60	9005	9105	9504
11 3	8 45 19.8447	1	21 3 52.582	19 43 .84	9005	9105	4210
11 3	14 13 19.2021	1	19 22 8.565	- 6 52 57.04	9006	9221	9509
11 3	14 13 35.2021	1	19 32 54.856	- 9 30 45.59	9006	9221	9510
11 3	14 41 23.6961	1	16 45 29.000	-87 4 19.94	9003	6814	57
11 3	14 41 35.6959	1	13 50 46.916	-86 40 46.71	9003	6814	9852
11 3	23 14 11.3115	1	0 6 45.953	45 23 20.04	9009	9421	9491
11 3	23 14 13.3113	1	0 7 57.740	44 54 22.56	9009	9421	9492

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.	ORS.NO.
1963 11 4	2 48	5.6267	18 49 35.556	-11 54 45.10	9001	2400	9478
11 4	4 37	59.5647	0 43 22.972	2 24 35.79	9012	1778	9878
11 4	4 38	1.5649	0 43 57.535	2 3 44.82	9012	1778	9879
11 4	13 34	19.4460	19 21 48.994	2 17 7.93	9006	9243	196
11 4	13 34	27.4459	19 28 28.273	0 47 3.87	9006	9243	197
11 5	2 8	47.8904	18 25 32.523	-3 32 40.03	9001	2420	9479
11 5	2 8	51.8904	18 28 .267	-4 6 11.54	9001	2420	9480
11 5	5 48	20.7331	19 10 32.447	-3 48 25.11	9012	1795	9880
11 5	5 48	22.7330	19 11 49.424	-4 11 3.46	9012	1795	9881
11 5	8 18	16.6141	12 13 7.101	-64 4 23.21	9011	1232	8005
11 5	8 18	36.6137	12 10 32.295	-59 41 59.25	9011	1232	8006
11 5	13 24	19.0947	7 18 33.756	-71 47 13.61	9003	6843	9853
11 5	23 49	20.9374	20 18 23.120	-1 19 27.00	9009	9434	9493
11 6	3 48	49.4103	18 44 30.366	-79 7 3.91	9011	1237	8007
11 6	3 49	13.4101	17 13 43.398	-82 10 46.71	9011	1237	8008
11 6	5 9	26.0300	19 22 23.305	6 34 7.97	9012	1815	9882
11 6	5 9	30.0299	19 25 42.277	5 42 2.19	9012	1815	9883
11 6	23 10	7.2946	20 45 13.068	17 47 49.80	9009	9438	55
11 6	23 10	15.2948	20 52 49.120	15 39 15.64	9009	9438	56
11 7	13 29	57.8217	18 11 11.227	-13 49 24.07	9006	9303	198
11 7	13 30	9.8219	18 17 11.438	-15 26 45.54	9006	9303	199
11 7	13 53	24.1415	20 13 40.424	-31 36 22.47	9003	6890	9854
11 7	13 53	32.1414	20 13 30.367	-32 46 48.00	9003	6890	9855
11 8	0 30	26.2250	22 26 9.615	-1 33 45.70	9007	943	85
11 9	1 49	45.8973	21 24 18.323	-52 58 49.13	9011	1246	8009
11 10	1 10	49.7456	22 11 46.510	-48 32 36.86	9011	1252	8010
11 10	1 10	53.7455	22 16 14.097	-49 40 26.57	9011	1252	8011
11 10	3 5	10.3923	18 24 7.723	-70 1 34.94	9011	1256	8012
11 10	3 5	14.3922	18 19 26.160	-70 39 12.10	9011	1256	8013
11 10	15 50	59.9710	11 57 18.240	-62 42 45.73	9003	6960	9484
11 10	15 51	3.9709	11 54 45.005	-62 9 44.37	9003	6960	9485
11 11	0 26	58.4312	19 50 42.949	-39 12 27.43	9007	1000	124
11 11	0 27	10.4313	19 56 28.098	-42 18 21.04	9007	1000	86
11 11	0 32	6.6020	23 19 2.023	-42 33 33.43	9011	1269	8014
11 11	0 32	10.6020	23 24 53.128	-43 32 10.93	9011	1269	8015
11 11	6 16	36.2962	11 20 57.957	-69 28 12.41	9011	1283	8016
11 11	6 17	.2960	11 9 24.184	-64 34 20.57	9011	1283	8017
11 11	8 10	17.4140	6 32 44.423	-33 50 34.23	9011	1289	8018
11 11	8 10	33.4132	6 53 7.430	-30 9 34.76	9011	1289	8019
11 11	23 53	21.4223	0 9 10.894	-31 13 10.23	9011	1291	8020
11 12	7 31	15.3419	7 6 9.418	-47 20 .19	9011	1301	9841
11 12	7 31	43.3415	7 41 42.049	-40 3 59.82	9011	1301	9842
11 12	16 29	49.3225	10 35 52.251	-26 14 37.24	9003	7000	9486
11 12	16 29	57.3224	10 36 3.000	-25 8 29.79	9003	7000	2478
11 13	1 6	36.8337	19 25 58.872	-55 0 31.00	9011	1309	9843

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.	SRS.NO.
1963 11 13	1 7 12.8329	1	19 29 2.536	-63 47 45.72	4	9011	1309	10
11 13	6 52 34.7683	1	8 17 2.771	-50 37 36.24	4	9011	1325	04
11 13	8 47 26.0524	1	7 58 30.879	-35 28 7.93	4	9007	1050	04
11 13	8 47 30.0526	1	8 2 30.161	-34 24 46.90	4	9007	1050	06
11 13	15 49 23.4847	1	10 28 19.087	-40 41 43.03	4	9003	7016	05
11 13	15 49 39.4845	1	10 27 5.829	-38 16 19.62	4	9003	7016	09
11 14	13 10 30.1570	1	17 0 57.094	-68 36 28.05	4	9003	7028	04
11 14	13 10 54.1569	1	16 28 24.031	-71 9 25.40	4	9003	7028	10
11 14	15 5 2.1455	1	17 5 49.696	-75 59 3.85	4	9003	7030	07
11 14	15 9 43.1559	1	10 21 54.416	-47 17 20.45	4	9003	7031	02
11 14	15 34 1.6091	1	11 8 50.745	-13 36 38.84	4	9012	1911	02
11 14	15 34 5.6091	1	11 11 24.655	-12 51 40.82	4	9012	1911	04
11 15	3 38 33.9896	1	13 51 43.607	-75 26 24.16	4	9011	1346	05
11 15	3 38 37.9895	1	13 41 28.645	-75 17 54.61	4	9011	1346	06
11 15	14 25 25.8185	1	17 13 6.355	-72 21 15.61	4	9003	7052	03
11 15	14 25 49.2539	1	16 32 1.658	-74 23 45.09	4	9003	7052	09
11 15	14 55 .8134	1	11 14 35.441	-20 0 3.62	4	9012	1927	02
11 15	14 55 4.8140	1	11 16 37.660	-19 21 19.38	4	9012	1927	04
11 16	6 50 24.1487	1	10 6 39.411	-49 55 48.21	4	9007	1115	07
11 16	8 43 43.9986	1	5 31 16.997	6 24 46.17	4	9007	1120	04
11 16	8 43 47.9987	1	5 34 16.781	7 18 51.74	4	9007	1120	06
11 16	23 19 53.6042	1	11 23 35.947	-11 11 48.71	4	9006	9502	02
11 16	23 20 5.6044	1	11 30 34.708	-9 25 55.23	4	9006	9502	05
11 17	0 23 54.3900	1	17 50 13.309	-60 4 34.53	4	9011	1361	05
11 17	0 24 2.3895	1	17 47 46.748	-61 42 54.94	4	9011	1361	07
11 17	4 15 5.8188	1	10 32 7.232	-72 11 5.41	4	9011	1372	08
11 17	4 15 21.8186	1	10 16 43.338	-69 15 7.25	4	9011	1372	12
11 17	8 4 48.8274	1	6 5 46.881	-5 33 44.91	4	9007	1139	04
11 17	8 4 54.8268	1	6 11 11.355	-3 59 51.30	4	9007	1139	07
11 17	15 7 53.8849	1	9 23 53.223	-23 0 50.67	4	9003	7105	04
11 17	15 8 1.8849	1	9 24 13.449	-21 54 42.33	4	9003	7105	05
11 17	22 40 57.4384	1	11 17 39.823	-15 51 45.41	4	9006	9512	03
11 17	22 41 5.4386	10	11 21 29.673	-14 49 29.97	4	9006	9512	05
11 18	2 5 20.9262	1	4 55 29.243	36 57 37.23	4	9002	5672	01
11 18	2 5 28.9272	1	4 59 13.858	37 52 13.11	4	9002	5672	02
11 18	5 57 51.2522	1	10 41 42.568	9 45 2.86	4	9004	1295	04
11 18	5 57 55.2522	1	10 45 34.816	10 27 8.97	4	9004	1295	06
11 18	9 25 50.6895	1	6 23 37.994	20 58 36.18	4	9009	9536	03
11 18	9 25 54.6895	1	6 26 3.356	22 1 31.78	4	9009	9536	05
11 18	11 17 27.8644	1	11 13 31.983	-12 2 27.28	4	9001	2642	01
11 18	11 17 35.8650	1	11 17 57.189	-10 58 55.33	4	9001	2642	03
11 18	14 21 28.0150	1	18 11 54.325	-73 11 45.47	4	9003	7128	05
11 18	14 21 32.0151	1	18 7 39.511	-73 43 13.44	4	9003	7128	06
11 18	23 54 6.6416	1	9 2 8.119	16 37 25.88	4	9006	9538	02
11 18	23 54 8.6418	1	9 4 5.159	17 6 1.59	4	9006	9538	03

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.	OR.S.NO.
1963 11 19	5	19	2.8140	1	10 53 31.619			1 52 23.93			9004	1315 05	9496
11 19	5	19	10.8142	1	11 0 7.660			3 6 12.23			9004	1315 07	9497
11 19	8	47	36.3675	1	7 45 45.558			21 32 57.55			9009	9552 01	9849
11 19	8	47	42.3675	1	7 51 11.269			23 9 53.88			9009	9552 04	9850
11 19	10	41	17.3071	1	7 33 11.517			29 19 12.90			9010	1648 04	9488
11 19	23	15	7.7104	1	9 29 1.431			4 9 26.89			9006	9557 01	206
11 19	23	15	9.7106	1	9 30 49.887			4 34 27.16			9006	9557 02	207
11 20	4	9	55.7641	1	23 28 11.019			-86 17 7.76			9011	1396 06	70
11 20	4	9	59.7641	1	0 15 1.942			-86 45 22.81			9011	1396 07	71
11 20	15	25	30.4953	1	5 45 29.508			37 8 17.27			9012	2008 01	9907
11 20	15	25	38.4954	1	5 49 .982			39 7 24.67			9012	2008 05	9908
11 21	1	37	25.0311	1	12 13 17.963			-74 51 22.32			9011	1420 04	69
11 21	4	1	24.5641	1	10 50 57.024			- 8 55 36.37			9004	1352 03	50
11 21	4	1	28.5641	1	10 53 15.494			- 8 26 8.87			9004	1352 04	9499
11 22	2	52	24.3692	1	10 12 48.017			-79 13 49.62			9011	1437 06	9860
11 22	2	52	44.3690	1	9 31 23.621			-75 49 40.98			9011	1437 11	9861
11 22	8	46	34.3332	1	7 16 18.442			75 47 6.32			9009	9596 05	9864
11 22	10	37	35.0461	1	5 12 2.398			49 27 27.83			9010	1690 07	3821
11 22	10	37	35.0476	1	12 23 20.398			21 7 6.57			9001	2667 05	3801
11 22	10	37	46.6243	1	5 14 53.679			52 7 47.43			9010	1690 07	3823
11 22	10	37	46.6260	1	12 30 9.846			21 54 42.49			9001	2667 05	3803
11 22	10	37	52.4031	1	5 16 24.389			53 28 6.83			9010	1690 07	3824
11 22	10	37	57.9526	1	5 17 55.242			54 45 28.58			9010	1690 07	3825
11 22	10	37	57.9544	1	12 36 41.678			22 37 46.18			9001	2667 05	3805
11 22	13	37	53.9314	1	18 48 26.270			-67 54 14.31			9003	7208 08	2479
11 22	13	42	44.0390	1	8 7 43.260			-55 4 21.25			9003	7209 10	6352
11 22	13	42	48.0386	1	8 7 28.290			-54 11 49.84			9003	7209 11	6353
11 22	19	37	41.4786	1	7 58 13.435			34 27 25.56			9005	9239 04	9505
11 22	19	37	49.4786	1	8 7 5.946			36 24 47.19			9005	9239 06	9506
11 22	21	22	2.7014	1	11 42 33.155			9 32 51.32			9006	9578 03	208
11 22	23	13	33.4310	1	10 58 15.780			63 14 19.70			9006	9584 03	209
11 22	23	13	45.4302	1	11 22 37.950			63 36 29.98			9006	9584 06	210
11 23	15	23	11.3735	1	3 50 56.767			62 47 54.27			9012	2050 02	9909
11 23	15	23	31.3735	1	3 48 6.318			66 19 11.34			9012	2050 07	9910
11 23	22	35	15.9755	10	11 57 20.276			51 28 28.09			9006	9602 02	211
11 23	22	35	31.9760	10	12 16 21.070			51 34 34.79			9006	9602 06	212
11 24	3	26	13.6395	1	22 10 22.006			-71 13 11.98			9011	1473 07	9862
11 24	3	26	21.6395	1	22 26 2.807			-72 9 40.67			9011	1473 09	9863
11 24	14	14	55.1102	1	23 37 31.515			-64 50 12.86			9003	7234 05	6354
11 24	14	14	59.1100	1	23 45 23.627			-65 0 41.78			9003	7234 06	6355
11 26	4	34	33.8734	1	12 58 4.837			58 7 12.68			9004	1391 05	9500
11 26	4	34	41.8733	1	13 8 41.916			57 32 28.77			9004	1391 07	51
11 26	12	59	58.3085	1	6 29 32.369			-48 30 25.17			9003	7254 06	6356
11 26	13	0	2.3084	1	6 30 38.995			-47 29 14.48			9003	7254 08	6357
11 26	18	57	49.2519	1	13 12 7.030			67 52 41.35			9005	9277 02	9834

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.	NRS. NO.
1963 11 26	18 57 57.2524	1	13 25 38.831	66 59 15.94	4	9005	9277	9835
11 26	22 32 11.2179	1	14 2 41.642	70 54 35.51	4	9006	9631	9867
11 26	22 32 15.2179	1	14 7 11.728	70 26 9.37	4	9006	9631	9868
11 27	0 21 3.0306	1	3 12 57.244	51 58 27.05	4	9006	9639	79
11 27	20 10 23.8656	10	2 51 57.572	77 25 40.07	4	9005	9302	9836
11 27	20 10 39.8656	10	2 17 27.996	80 20 23.10	4	9005	9302	9837
11 27	23 44 11.7841	1	1 47 46.096	72 28 28.33	4	9006	9672	80
11 27	23 44 23.7846	1	1 31 15.773	74 5 19.66	4	9006	9672	81
11 28	12 21 22.8075	1	23 42 31.158	79 47 46.55	4	9001	2783	9483
11 28	13 32 42.6043	1	0 18 15.090	-44 36 12.22	4	9003	7276	9856
11 28	13 32 50.6042	1	0 29 55.801	-43 49 22.87	4	9003	7276	9857
11 28	23 6 38.1887	1	20 35 57.742	82 2 14.22	4	9006	9687	82
11 28	23 6 50.1888	1	19 49 .053	81 12 42.26	4	9006	9687	83
11 29	12 54 55.4096	1	2 37 13.478	-47 55 48.64	4	9003	7301	9858
11 29	12 54 59.4093	1	2 43 24.134	-46 58 44.81	4	9003	7301	9859
11 29	22 29 6.4676	1	16 27 25.807	71 1 38.22	4	9006	9707	84
11 30	5 43 44.5532	1	23 14 36.758	82 39 20.47	4	9004	1429	9502
11 30	5 43 52.5531	1	22 24 35.722	80 53 55.07	4	9004	1429	9503
11 30	20 7 26.6147	10	22 28 30.389	80 52 49.04	4	9005	9345	9838
11 30	20 7 45.8444	10	21 0 33.342	80 23 46.32	4	9005	9345	52
12 1	23 2 52.6286	1	21 6 58.384	76 56 18.39	4	9006	9751	1351
12 3	5 40 44.9904	1	18 59 39.935	78 7 44.19	4	9004	1445	1204
12 3	5 40 48.9903	1	18 49 42.324	77 34 34.88	4	9004	1445	1205
12 3	12 53 11.0666	1	22 36 54.555	77 52 20.90	4	9001	2860	2882
12 4	18 47 26.7162	1	4 12 2.076	-17 2 53.61	4	9002	5814	1193
12 4	18 47 34.7164	1	4 16 .132	-15 4 33.70	4	9002	5814	1194
12 5	6 15 43.2651	1	18 36 9.234	83 55 35.62	4	9004	1450	4371
12 5	6 15 55.2654	1	17 51 24.742	81 46 38.75	4	9004	1450	4372
12 6	0 14 8.3979	1	20 29 29.528	76 22 47.67	4	9006	9808	1352
12 6	10 58 23.6621	1	16 55 14.834	62 21 16.69	4	9001	2894	2683
12 6	10 58 31.6614	1	16 51 24.230	61 21 45.92	4	9001	2894	2684
12 7	4 39 39.0230	1	6 52 49.272	31 29 38.34	3	9010	1821	772
12 7	4 39 45.2023	1	6 59 41.733	32 24 29.49	3	9010	1821	773
12 7	4 39 50.8240	1	7 5 55.808	33 11 49.08	3	9010	1821	774
12 7	4 39 56.5576	1	7 12 15.051	33 57 45.88	3	9010	1821	775
12 7	6 28 36.8547	1	7 13 26.243	18 43 33.52	3	9001	2906	541
12 7	6 28 42.4331	1	7 18 48.006	19 33 26.27	3	9001	2906	542
12 7	6 28 48.6005	1	7 24 41.934	20 26 46.30	3	9001	2906	543
12 7	6 28 54.2401	1	7 30 3.524	21 13 44.38	3	9001	2906	544
12 7	6 28 59.8957	1	7 35 24.254	21 59 11.65	3	9001	2906	545
12 7	11 31 58.8812	1	1 51 51.250	26 22 12.07	4	9003	7421	1198
12 7	11 32 10.8813	1	1 59 39.937	27 46 1.90	4	9003	7421	1199
12 8	5 52 12.6313	1	8 51 42.680	23 38 51.42	3	9001	2916	551
12 8	5 52 18.2693	1	8 55 4.584	23 59 8.51	3	9001	2916	552
12 8	5 52 24.2988	1	8 58 37.368	24 19 50.86	3	9001	2916	553

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.	ORS.NO.
1963 12 8	5 52 30.0125	1	9 1 56.917	24 38 40.96	9001	2916	554
12 8	11 30 35.2144	1	22 46 11.788	76 58 15.50	9001	2920	561
12 8	11 30 40.7204	1	22 31 39.989	77 20 27.98	9001	2920	562
12 8	11 30 46.8529	1	22 14 28.699	77 41 30.81	9001	2920	563
12 8	11 30 52.5675	1	21 57 31.917	77 56 55.03	9001	2920	564
12 8	11 30 58.1592	1	21 40 13.851	78 7 59.41	9001	2920	565
12 8	20 35 39.0463	1	11 53 16.106	78 29 17.08	9005	9402	4381
12 8	20 35 58.2520	1	12 55 23.460	75 0 58.74	9005	9402	4382
12 9	0 11 33.0197	1	17 8 1.601	71 35 1.58	9006	9852	1353
12 9	0 11 37.0196	1	17 4 52.918	70 54 .06	9006	9852	1354
12 9	3 21 22.0986	1	6 33 6.084	3 2 24.35	9010	1830	781
12 9	3 21 22.0989	1	3 41 5.479	68 52 24.76	9009	9724	711
12 9	3 21 27.7347	1	6 36 53.549	3 56 31.78	9010	1830	782
12 9	3 21 27.7349	1	3 50 30.433	69 33 34.22	9009	9724	712
12 9	3 21 33.8104	1	6 40 57.249	4 53 53.36	9010	1830	783
12 9	3 21 33.8107	1	4 1 3.300	70 14 58.97	9009	9724	713
12 9	3 21 39.4745	1	6 44 43.185	5 46 29.20	9010	1830	784
12 9	3 21 45.1964	1	6 48 30.527	6 38 36.89	9010	1830	785
12 9	3 21 45.1973	1	4 21 58.312	71 24 15.31	9009	9724	715
12 9	5 10 26.1745	1	0 51 55.948	13 44 56.31	9010	1831	791
12 9	5 10 26.1747	1	6 43 29.550	- 2 32 50.02	9001	2930	571
12 9	5 10 31.6214	1	0 53 5.269	14 43 42.26	9010	1831	792
12 9	5 10 31.6216	1	6 46 54.130	- 1 47 9.13	9001	2930	572
12 9	5 10 37.7652	1	0 54 24.486	15 51 27.01	9010	1831	793
12 9	5 10 37.7654	1	6 50 43.687	- 0 56 7.09	9001	2930	573
12 9	10 54 47.0635	1	16 26 20.389	59 44 53.19	9001	2934	2685
12 9	11 0 33.8157	1	16 39 40.599	63 10 8.54	9010	1840	4223
12 9	11 0 37.8157	1	16 38 31.376	62 27 23.88	9010	1840	4224
12 9	12 2 42.1500	1	22 2 57.500	11 0 40.92	9003	7470	1200
12 9	12 4 34.8939	1	22 54 24.043	24 37 1.55	9003	7471	1201
12 9	12 47 27.3326	1	15 14 24.359	69 1 9.60	9001	2941	2686
12 9	12 47 39.3328	1	15 17 24.863	66 14 31.75	9001	2941	2687
12 10	11 27 37.5810	1	23 54 46.791	36 3 24.95	9003	7494	1202
12 10	11 27 53.5810	1	0 3 39.290	37 43 48.03	9003	7494	1203
12 11	3 54 57.5810	1	3 3 42.461	33 4 39.13	9010	1862	802
12 11	3 55 3.7036	1	3 10 21.673	34 45 37.59	9010	1862	803
12 11	3 55 9.3967	1	3 16 47.010	36 18 13.91	9010	1862	804
12 11	3 55 14.9906	1	3 23 19.123	37 47 46.21	9010	1862	805
12 11	5 46 54.8975	1	23 47 12.285	41 37 48.20	9010	1863	813
12 11	5 47 .5601	1	23 46 45.644	42 31 3.19	9010	1863	814
12 12	3 15 41.2439	1	3 26 44.239	14 43 48.38	9010	1879	821
12 12	3 15 46.8428	1	3 32 29.812	16 9 54.75	9010	1879	822
12 12	3 15 52.9459	1	3 38 54.201	17 43 29.84	9010	1879	823
12 12	5 7 37.9425	1	23 41 14.774	37 42 1.19	9010	1880	832
12 12	5 7 44.0220	1	23 41 12.042	38 45 11.72	9010	1880	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	STATION	FRAME NO.	SRS.NO.
1963 12 12	5 7 49.7905	1	23 41 8.682	39 45 45.93	9010	1880	834
12 12	5 7 55.3906	1	23 41 3.530	40 45 6.41	9010	1880	835
12 12	5 31 30.8531	1	13 44 54.268	37 13 9.53	9004	1480	4373
12 12	5 31 34.8531	1	13 46 50.793	36 16 35.05	9004	1480	4374
12 12	10 56 51.3698	1	14 23 3.128	58 59 57.99	9010	1890	4225
12 12	10 56 55.3701	1	14 25 2.192	58 2 57.24	9010	1890	4226
12 12	19 54 51.4342	1	13 10 11.894	37 45 52.12	9005	9425	4383
12 12	19 54 53.8325	1	13 11 50.062	37 9 48.34	9005	9425	4384
12 13	2 39 18.1522	1	1 23 20.411	81 14 27.83	9009	9758	721
12 13	2 39 29.8200	1	1 50 34.088	82 37 52.71	9009	9758	723
12 13	2 39 35.4736	1	2 7 5.206	83 14 51.95	9009	9758	724
12 13	4 28 21.0879	1	6 37 2.541	18 49 7.73	9001	2952	581
12 13	4 28 26.7316	1	6 41 29.168	19 27 9.53	9001	2952	582
12 13	4 28 44.1748	1	6 54 58.306	21 15 53.98	9001	2952	585
12 13	22 51 12.9564	1	15 11 20.893	51 24 45.28	9006	9891	1355
12 13	22 51 24.9564	1	15 10 18.999	49 14 3.74	9006	9891	1356
12 14	1 57 20.8815	1	3 54 30.186	-13 35 16.04	9010	1905	841
12 14	1 57 20.8817	1	23 58 54.858	49 12 12.27	9009	9761	7311
12 14	1 57 26.4346	1	3 58 44.749	-12 33 8.89	9010	1905	842
12 14	1 57 26.4348	1	0 2 9.342	50 29 27.03	9009	9761	7312
12 14	1 57 32.6364	1	4 3 29.349	-11 23 15.46	9010	1905	843
12 14	1 57 32.6367	1	0 5 55.217	51 54 35.35	9009	9761	7313
12 14	1 57 38.2425	1	4 7 47.414	-10 19 40.53	9010	1905	844
12 14	1 57 38.2428	1	0 9 28.006	53 10 37.21	9009	9761	7314
12 14	1 57 43.9402	1	4 12 9.949	-9 14 44.89	9010	1905	845
12 14	1 57 43.9405	1	0 13 12.845	54 26 46.83	9009	9761	7315
12 14	11 27 3.1837	1	14 13 16.110	43 18 1.83	9001	2963	2688
12 14	11 27 7.1838	1	14 14 1.409	42 25 19.21	9001	2963	2689
12 14	15 4 21.6314	1	15 34 10.130	59 3 36.20	9012	2253	6486
12 14	15 4 25.6315	1	15 33 41.071	58 22 40.86	9012	2253	6487
12 14	17 55 23.3558	1	21 53 1.492	28 32 30.62	9002	5904	1195
12 14	17 55 39.3574	1	22 0 18.920	30 36 9.88	9002	5904	1196
12 14	18 38 25.9625	1	14 5 26.370	26 40 44.44	9005	9452	4385
12 14	18 38 30.7675	1	14 6 10.699	25 52 35.21	9005	9452	4386
12 14	22 13 3.8290	1	15 1 38.350	42 58 5.10	9006	9905	1357
12 15	0 5 21.8909	1	12 22 39.895	33 2 21.45	9006	9911	2407
12 15	1 18 31.5072	1	1 2 3.467	46 43 38.57	9009	9763	743
12 15	1 18 31.5089	1	4 8 50.116	-18 43 15.97	9010	1912	853
12 15	1 18 37.0921	1	7 35.345	48 3 14.23	9009	9763	744
12 15	1 18 37.0938	1	4 12 19.137	-17 49 5.63	9010	1912	854
12 15	1 18 42.7649	1	1 13 23.501	49 21 56.62	9009	9763	745
12 15	1 18 42.7666	1	4 15 52.413	-16 53 36.40	9010	1912	855
12 15	3 10 11.0952	1	23 54 33.662	20 30 53.53	9010	1914	861
12 15	3 10 16.7099	1	23 56 31.523	21 48 25.55	9010	1914	862
12 15	3 10 22.7756	1	23 58 42.975	23 13 46.20	9010	1914	863

DATE	TIME (A-1)	RMS	R.A. (1950.0)	DECL. (1950.0)	RMS	STATION	FRAME NO.	NHS. NO.
Y M D	H M S	MS	H M S	D M S	S			
1963 12 15	3 10 28.4484	1	0 0 49.529	24 35 9.26	3	9010	1914	06 864
12 15	3 10 34.1751	1	0 3 1.740	25 58 51.18	3	9010	1914	06 865
12 15	6 56 41.8149	1	19 6 29.578	81 13 54.46	3	9001	2972	05 591
12 15	6 56 47.2444	1	18 40 46.735	81 25 25.49	3	9001	2972	05 592
12 15	6 56 53.4496	1	18 10 40.419	81 30 10.23	3	9001	2972	05 593
12 15	6 56 59.1321	1	17 43 15.578	81 26 36.61	3	9001	2972	05 594
12 15	6 57 4.7233	1	17 17 15.426	81 16 3.46	3	9001	2972	05 595
12 15	10 48 43.0338	1	14 22 12.151	37 14 32.69	4	9001	2977	03 2690
12 15	10 48 47.0338	1	14 22 25.986	36 31 44.69	4	9001	2977	04 2691
12 15	12 40 19.6566	1	10 34 17.176	17 5 45.90	4	9001	2985	03 2692
12 15	14 24 56.7672	1	15 42 37.074	61 0 36.78	4	9012	2261	06 6488
12 15	14 25 .7673	1	15 41 28.165	60 25 6.52	4	9012	2261	07 6489
12 16	2 31 11.8691	1	5 27 10.198	-5 40 8.39	3	9001	2988	07 603
12 16	2 31 17.6694	1	5 29 48.561	-5 1 23.73	3	9001	2988	07 604
12 16	10 10 32.5622	1	14 17 58.262	31 11 3.17	4	9001	2992	02 2693
12 16	10 10 56.5628	1	14 18 28.872	27 50 40.38	4	9001	2992	05 2694
12 16	15 39 29.6527	1	12 15 47.588	52 22 6.91	4	9012	2273	02 1056
12 16	15 39 35.6529	1	12 21 46.564	50 57 37.43	4	9012	2273	05 1057
12 17	5 21 44.6870	1	2 13 21.443	-40 14 13.48	4	9012	2275	03 6490
12 17	5 21 46.6870	1	2 14 38.857	-39 57 56.91	4	9012	2275	04 6491
12 17	11 25 9.0423	1	13 10 37.764	3 12 30.08	3	9001	3009	08 611
12 17	11 25 14.6479	1	13 12 28.764	2 21 42.62	3	9001	3009	08 612
12 17	11 25 20.7985	1	13 14 28.141	1 27 25.78	3	9001	3009	08 613
12 17	11 25 26.4204	1	13 16 13.898	0 39 1.84	3	9001	3009	08 614
12 17	11 25 32.1025	1	13 17 59.122	-0 8 37.17	3	9001	3009	08 615
12 17	14 23 41.4117	10	0 50 17.208	-37 6 32.07	4	9006	9945	03 1358
12 17	15 3 8.1985	1	14 11 19.203	20 20 26.41	4	9012	2281	03 6492
12 17	15 3 10.1983	1	14 11 48.794	19 56 38.01	4	9012	2281	04 6493
12 18	6 34 4.6454	1	22 15 36.099	-13 34 23.87	4	9012	2285	04 6494
12 18	6 34 10.6451	1	22 17 24.467	-12 48 10.87	4	9012	2285	07 6495
12 18	10 45 59.7850	1	13 15 20.427	11 37 50.94	3	9001	3018	08 622
12 18	10 46 5.9605	1	13 16 49.248	10 39 17.53	3	9001	3018	08 623
12 18	10 46 11.6640	1	13 18 9.472	9 46 30.80	3	9001	3018	08 624
12 18	10 46 17.2463	1	13 19 26.665	8 56 4.32	3	9001	3018	08 625
12 18	12 36 42.4692	1	9 19 27.437	-13 14 14.56	4	9001	3024	04 2695
12 18	12 36 50.4689	1	9 24 56.964	-14 25 28.62	4	9001	3024	06 2696
12 18	13 45 55.8611	1	1 54 42.842	-34 40 2.16	4	9006	9957	05 1359
12 18	14 23 7.9448	1	14 9 28.489	36 23 33.69	4	9012	2288	03 6496
12 18	14 23 9.9451	1	14 9 45.868	35 59 51.43	4	9012	2288	04 6497
12 18	19 47 8.0822	1	9 40 47.851	-14 34 56.69	4	9005	9511	02 3144
12 18	19 47 12.8870	1	9 44 9.623	-15 14 8.50	4	9005	9511	03 3145
12 18	23 24 11.2829	1	11 50 43.944	-9 2 5.28	4	9006	9966	06 3140
12 18	23 24 23.2829	1	11 57 41.647	-10 54 40.07	4	9006	9966	09 3141
12 19	0 33 27.6426	1	21 48 39.333	26 22 .19	3	9009	9782	05 751
12 19	0 33 27.6452	1	1 10 56.245	-28 2 12.37	3	9010	1917	08 871

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.	CARS NO.
1963 12 19	0 33 33.0774	1	21 50 11.016	27 33 33.75	9009	9782	752
12 19	0 33 33.0801	1	1 14 47.351	-27 16 50.78	9010	1917	872
12 19	0 33 39.2414	1	1 19 12.514	-26 23 59.36	9010	1917	873
12 19	0 33 44.9402	1	1 23 20.252	-25 33 41.99	9010	1917	874
12 19	0 33 50.5572	1	21 55 16.445	31 27 20.02	9009	9782	755
12 19	0 33 50.5598	1	1 27 27.339	-24 42 50.16	9010	1917	875
12 19	2 28 2.3529	1	22 30 14.582	41 17 1.51	9010	1919	882
12 19	2 28 2.3761	1	5 42 38.345	17 57 38.88	9001	3029	832
12 19	2 28 8.5294	1	22 31 15.615	42 42 24.33	9010	1919	883
12 19	2 28 14.1731	1	5 50 10.821	18 59 26.55	9001	3029	834
12 19	2 28 19.8710	1	22 33 10.717	45 20 41.96	9010	1919	885
12 19	2 28 19.8945	1	5 53 47.791	19 27 55.47	9001	3029	835
12 19	5 55 53.6377	1	22 47 41.742	-17 47 41.90	9012	2293	1058
12 19	8 20 46.9336	1	14 1 14.110	16 5 2.73	9010	1920	4227
12 19	10 6 43.7194	1	6 13 30.781	41 30 46.58	9010	1924	891
12 19	10 6 49.3060	1	6 18 29.411	41 16 56.64	9010	1924	892
12 19	10 6 55.4609	1	6 24 4.079	41 0 11.32	9010	1924	893
12 19	10 6 55.4844	1	13 16 47.468	17 45 6.13	9001	3034	643
12 19	10 7 1.1113	1	6 29 16.219	40 43 23.68	9010	1924	894
12 19	10 7 1.1350	1	13 17 40.772	16 52 47.12	9001	3034	644
12 19	10 12 20.7649	1	11 29 30.145	-13 8 26.41	9010	1925	4228
12 19	10 12 24.7649	1	11 32 5.260	-13 47 24.00	9010	1925	4229
12 19	11 58 59.3962	1	10 24 36.549	-17 44 51.88	9001	3039	6692
12 19	11 59 3.3961	1	10 27 19.520	-18 17 50.26	9001	3039	6693
12 19	13 8 34.0588	1	3 0 42.291	-25 58 39.77	9006	9969	3142
12 19	13 8 42.0588	1	3 5 9.315	-24 53 18.36	9006	9969	3634
12 20	0 34 9.6800	1	7 35 29.353	-7 17 36.34	9006	9988	3635
12 20	0 34 25.6803	1	7 42 50.550	-9 13 50.31	9006	9988	3143
12 20	1 48 56.0804	1	5 11 24.127	9 1 45.13	9001	3045	651
12 20	1 49 1.5305	1	22 49 7.144	37 33 20.12	9010	1936	902
12 20	1 49 1.5330	1	5 14 23.987	9 34 52.87	9001	3045	652
12 20	1 49 7.8495	1	22 51 35.061	39 12 14.93	9010	1936	903
12 20	1 49 7.8520	1	5 17 50.811	10 12 13.17	9001	3045	653
12 20	1 49 13.4170	1	22 53 50.849	40 40 13.19	9010	1936	904
12 20	1 49 13.4196	1	5 20 51.836	10 44 18.16	9001	3045	654
12 20	1 49 19.0760	1	22 56 15.183	42 10 21.35	9010	1936	905
12 20	1 49 19.0787	1	5 23 54.208	11 16 10.36	9001	3045	655
12 20	5 18 36.2443	1	0 26 6.531	-11 20 55.90	9012	2305	1059
12 20	9 21 57.0405	1	0 48 46.019	85 4 54.70	9001	3047	661
12 20	9 22 2.6965	1	0 50 47.336	86 10 8.26	9001	3047	662
12 20	9 22 8.7329	1	0 54 21.686	87 20 49.16	9001	3047	663
12 20	9 22 14.4125	1	1 2 9.051	88 28 1.77	9001	3047	664
12 20	9 22 20.1462	1	1 53 31.312	89 36 15.75	9001	3047	665
12 20	9 27 33.8061	1	13 11 59.493	25 7 43.92	9001	3048	671
12 20	9 27 45.3687	1	13 13 2.915	23 21 18.67	9001	3048	673

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.	ORS.NO.
1963 12 20	9 27 56.7164	1	13 14 5.351	21 40 34.62	3	9001	3048	07 675
12 20	14 58 46.7050	1	11 53 43.465	- 0 21 55.07	4	9012	2310	08 1060
12 20	14 58 48.7048	1	11 55 .835	- 0 48 23.09	4	9012	2310	09 1061
12 20	23 16 21.9902	1	23 22 26.277	23 59 18.09	4	9009	7920	08 6485
12 20	23 57 39.0752	1	8 45 1.119	-22 14 7.15	4	9006	9997	03 3146
12 20	23 57 58.2785	1	8 56 4.325	-24 48 53.26	4	9006	9997	07 3147
12 21	1 7 1.9098	10	3 17 52.401	-18 43 29.23	4	9001	3057	04 6694
12 21	1 7 13.9097	10	3 24 7.400	-17 10 42.56	4	9001	3057	07 7126
12 21	1 45 21.9096	1	8 37 19.755	-21 32 48.21	4	9008	5559	02 1055
12 21	6 32 20.3612	1	21 18 27.052	28 21 47.02	4	9012	2313	03 1062
12 21	6 32 26.3612	1	21 19 7.552	29 30 10.04	4	9012	2313	06 1063
12 21	8 48 33.0228	1	13 5 42.327	28 5 10.22	3	9001	3061	09 681
12 21	8 48 38.6312	1	13 5 54.877	27 17 11.50	3	9001	3061	09 682
12 21	8 48 44.7558	1	5 19 54.630	65 11 44.19	3	9010	1943	06 923
12 21	8 48 44.7580	1	13 6 9.596	26 25 44.21	3	9001	3061	09 683
12 21	8 48 50.3778	1	5 29 23.679	65 23 19.15	3	9010	1943	06 924
12 21	8 48 50.3801	1	13 6 23.540	25 39 9.92	3	9001	3061	09 684
12 21	8 48 56.0818	1	5 39 23.186	65 33 3.30	3	9010	1943	06 925
12 21	8 48 56.0843	1	13 6 38.297	24 52 38.80	3	9001	3061	09 685
12 21	8 55 45.5446	1	12 48 40.925	- 6 38 4.69	4	9010	1944	03 4232
12 21	8 55 49.5445	1	12 49 53.278	- 7 9 37.96	4	9010	1944	04 4233
12 21	10 45 28.1528	1	8 18 19.077	-21 7 14.79	4	9010	1947	03 4230
12 21	10 45 32.1535	1	8 20 21.631	-21 40 3.90	4	9010	1947	04 4231
12 21	13 41 48.2411	1	23 47 49.583	-17 57 39.96	4	9006	1	04 3148
12 21	13 41 52.2408	1	23 50 23.483	-17 22 34.69	4	9006	1	05 3149
12 21	14 21 9.5003	1	12 59 28.603	- 5 7 40.46	4	9012	2318	03 1064
12 21	19 6 33.2818	1	1 27 28.476	-24 10 32.72	4	9004	1492	04 4375
12 21	19 6 41.2818	1	1 32 52.033	-23 13 41.56	4	9004	1492	06 4376
12 21	23 20 7.5238	1	9 48 44.648	-29 10 27.02	4	9006	10	06 3150
12 21	23 20 15.5241	1	9 53 42.295	-30 7 2.32	4	9006	10	08 3151
12 22	0 30 44.3490	1	23 44 21.562	15 15 25.29	3	9010	1949	05 931
12 22	0 30 49.8485	1	23 48 48.573	16 44 37.89	3	9010	1949	05 932
12 22	0 30 56.1115	1	23 54 3.229	18 27 47.51	3	9010	1949	05 933
12 22	0 31 1.6909	1	23 58 53.288	20 0 45.21	3	9010	1949	05 934
12 22	0 31 7.3893	1	0 3 59.933	21 36 37.35	3	9010	1949	05 935
12 22	2 22 36.9959	1	4 7 45.229	39 24 40.25	3	9001	3073	07 691
12 22	2 22 42.6027	1	4 15 12.010	39 57 13.07	3	9001	3073	07 692
12 22	2 22 48.7033	1	4 23 12.803	40 29 39.32	3	9001	3073	07 693
12 22	2 22 54.3676	1	4 30 34.023	40 56 57.97	3	9001	3073	07 694
12 22	5 52 47.9042	1	21 17 22.824	16 59 14.86	4	9012	2325	03 1065
12 22	5 52 53.9043	1	21 18 39.387	18 10 31.25	4	9012	2325	06 1299
12 22	11 55 .5930	1	8 52 56.684	-31 25 9.54	4	9001	3078	03 6696
12 22	11 55 12.5928	1	8 59 18.939	-32 40 50.42	4	9001	3078	06 6697
12 22	13 4 19.4956	1	1 20 12.918	-12 14 11.01	4	9006	16	04 3152
12 22	13 4 39.4960	1	1 37 4.204	- 8 24 15.82	4	9006	16	09 3153

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.	ORS.NO.
1963 12 22	14 55 22.6328	1	21 30 25.739	16 46 26.91	9006	21	3154
12 22	14 55 46.6327	1	21 33 24.564	20 45 6.37	9006	21	3155
12 22	15 33 18.5191	1	8 49 30.888	-28 12 17.99	9012	2331	1067
12 22	15 33 20.5190	1	8 50 39.476	-28 30 46.91	9012	2331	1068
12 22	22 42 30.5022	1	10 56 44.964	-32 3 11.42	9006	25	3156
12 22	22 42 42.5020	1	11 3 3.336	-33 5 57.57	9006	25	3157
12 22	23 51 19.6855	1	23 59 10.018	-3 45 11.03	9010	1957	4238
12 22	23 51 21.6856	1	0 0 47.867	-3 18 47.80	9010	1957	4825
12 23	1 43 26.2364	1	3 45 4.696	23 52 47.91	9001	3085	701
12 23	1 43 31.7151	1	3 50 41.279	24 36 43.41	9001	3085	702
12 23	1 43 37.8209	1	3 56 53.664	25 23 32.44	9001	3085	703
12 23	14 17 5.3317	1	21 40 18.411	18 38 20.37	9006	33	1069
12 23	14 17 13.3313	1	21 42 13.944	20 15 12.56	9006	33	1070
12 24	1 4 8.5244	1	3 17 4.104	9 11 24.10	9001	3098	7127
12 24	1 4 16.5229	1	3 23 37.662	10 23 39.99	9001	3098	6698
12 24	2 52 49.9593	1	21 33 42.219	14 13 46.09	9001	3103	7128
12 24	2 53 1.9593	1	21 35 56.560	16 14 30.72	9001	3103	6699
12 24	13 38 45.6985	1	22 9 16.742	20 7 .07	9006	44	4387
12 24	13 38 49.6983	1	22 11 11.436	21 6 3.95	9006	44	4388
12 25	13 1 9.0425	1	23 47 52.842	32 24 38.73	9006	60	4389
12 25	13 1 11.0428	1	23 50 9.104	32 58 19.45	9006	60	4390
12 25	14 52 50.7021	1	20 28 59.953	39 40 29.77	9006	64	2697
12 25	14 53 6.7020	1	20 27 45.529	42 16 31.45	9006	64	2698
12 25	23 48 26.2591	1	22 8 10.107	43 21 9.97	9010	1968	4236
12 25	23 48 28.2592	1	22 9 35.553	43 55 27.33	9010	1968	4237
12 26	3 29 6.3805	1	20 37 39.948	39 26 19.43	9001	3120	6700
12 26	3 29 14.3805	1	20 37 7.421	40 42 52.27	9001	3120	6701
12 26	14 14 13.3312	1	20 22 16.389	42 23 3.97	9006	75	1071
12 26	14 14 25.3314	1	20 21 50.030	44 40 22.52	9006	75	1072
12 27	1 2 56.5995	1	19 38 46.384	55 59 38.72	9010	1984	4234
12 27	1 3 .5996	1	19 37 33.248	56 39 16.38	9010	1984	4235
12 27	2 50 50.3154	1	20 27 50.077	46 3 14.73	9001	3129	6702
12 27	2 50 58.3156	1	20 27 19.518	47 36 43.76	9001	3129	6703
12 27	8 42 57.4281	1	6 16 51.544	-7 12 32.76	9010	1992	961
12 27	8 43 2.8707	1	6 19 55.655	-8 0 56.95	9010	1992	962
12 27	8 43 9.0696	1	6 23 26.277	-8 56 24.63	9010	1992	963
12 27	8 43 14.7668	1	6 26 40.455	-9 47 35.95	9010	1992	964
12 27	8 43 20.3067	1	6 29 49.715	-10 37 30.69	9010	1992	965
12 27	13 36 13.1785	1	20 29 9.944	54 13 53.40	9006	89	1073
12 27	13 36 17.1787	1	20 29 26.150	55 10 15.88	9006	89	1074
12 28	2 11 52.3684	1	20 29 16.738	45 17 31.75	9001	3147	6704
12 28	2 11 56.3684	1	20 29 30.554	46 10 23.48	9001	3147	6705
12 28	12 57 2.2521	1	20 50 57.060	50 13 1.73	9006	102	2699
12 28	12 57 6.2498	1	20 52 26.169	51 16 32.50	9006	102	2700
12 29	1 33 41.2684	1	20 54 28.153	55 41 33.62	9001	3158	6706

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.	NRS. NO.
1963 12 29	1 33 49.2684	1	20 57 35.069	57 49 11.70	4	9001	3158	04 6707
12 29	2 21 3.3917	1	12 56 23.924	-10 52 4.58	4	9002	6163	03 1197
12 30	18 56 27.2532	1	20 45 10.137	60 41 5.40	4	9004	1569	05 4377
12 30	18 56 35.2533	1	20 48 20.254	62 49 1.32	4	9004	1569	07 4378
12 31	18 20 22.4588	1	6 13 26.140	70 30 41.05	4	9004	1587	03 4379
12 31	18 20 34.4590	1	6 27 53.716	68 32 .57	4	9004	1587	06 4380

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.	CRS. NO.
1963 10 5	4 33	1	20 38 8.438	59 47 59.16	9001	1946	8297
10 5	4 33	1	20 44 59.108	59 40 9.43	9001	1946	6793
10 5	7 38	1	21 44 59.517	79 43 7.14	9012	1454	8299
10 5	16 53	1	0 51 53.284	57 31 3.34	9008	4444	7146
10 5	16 53	1	0 58 32.523	56 0 59.58	9008	4444	7147
10 5	19 58	1	1 10 43.422	32 6 43.43	9004	777	6880
10 5	19 58	1	1 13 .366	31 17 11.78	9004	777	6881
10 6	5 9	1	1 45 40.243	57 54 48.86	9012	1467	6867
10 6	5 13	1	18 53 57.700	45 32 17.29	9001	1965	6794
10 6	5 13	1	18 58 34.740	45 31 54.17	9001	1965	6795
10 6	14 28	1	1 39 .512	43 54 44.10	9006	8796	4892
10 6	14 29	1	1 43 12.354	42 5 44.71	9006	8796	4893
10 6	18 4	1	1 33 49.032	-27 12 7.15	9003	6312	5153
10 6	18 4	1	1 35 50.739	-27 48 49.59	9003	6312	5154
10 6	20 38	1	0 5 43.700	42 53 14.27	9004	793	6882
10 6	20 38	1	0 10 13.342	41 53 15.02	9004	793	6883
10 7	12 4	1	21 1 16.510	45 41 3.54	9005	8971	7153
10 7	12 4	1	21 15 32.598	44 39 17.31	9005	8971	7153
10 7	15 9	1	0 30 59.814	55 46 18.88	9006	8817	4894
10 7	15 9	1	0 36 .826	54 45 1.92	9006	8817	4895
10 7	18 44	1	0 24 .212	-20 27 41.19	9003	6328	5151
10 7	18 44	1	0 25 1.063	-20 55 13.46	9003	6328	5152
10 8	3 29	10	0 4 6.775	50 22 20.67	9001	1998	7680
10 8	3 29	10	0 11 49.631	48 49 57.76	9001	1998	6797
10 8	6 34	1	1 37 28.840	65 8 59.58	9012	1475	6868
10 8	6 34	1	1 45 13.714	62 56 40.04	9012	1475	6869
10 8	15 49	1	21 10 19.209	60 57 26.20	9006	8832	4896
10 8	15 50	1	21 19 31.501	60 36 49.38	9006	8832	4897
10 8	21 59	1	20 5 42.378	38 18 13.70	9004	832	7682
10 8	21 59	1	20 8 28.597	38 7 3.75	9004	832	7683
10 9	4 9	1	21 9 4.003	53 49 19.51	9001	2019	6798
10 9	4 10	1	21 17 1.400	53 22 40.55	9001	2019	6799
10 9	7 14	1	21 42 46.745	76 10 3.87	9012	1480	6870
10 9	7 15	1	22 10 44.144	75 35 .23	9012	1480	6871
10 9	19 35	1	0 57 32.254	27 18 44.98	9004	849	7684
10 9	19 35	1	1 1 47.870	25 44 36.25	9004	849	7685
10 10	7 55	1	18 37 38.812	63 36 17.90	9012	1498	6872
10 10	7 55	1	18 46 33.475	63 54 52.16	9012	1498	7687
10 10	14 6	1	1 27 51.726	36 28 34.67	9006	8864	4898
10 10	14 6	1	1 31 44.057	34 43 45.22	9006	8864	4899
10 10	17 11	1	22 39 5.911	55 59 49.70	9008	4525	7148
10 10	17 11	1	22 46 41.816	55 12 23.57	9008	4525	7149
10 10	17 40	1	1 18 50.179	-35 46 2.79	9003	6392	5142
10 10	17 41	1	1 23 19.820	-37 1 57.53	9003	6392	5143
10 10	20 16	1	0 22 22.358	29 17 45.32	9004	868	7686

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.	NRS. NO.
1963 10 10	20 16	1	0 24 1.652	28 48 25.35	9004	868	6885
10 11	2 26	1	1 13 18.550	30 27 7.70	9001	2055	6800
10 11	2 26	1	1 19 25.325	27 53 35.80	9001	2055	6801
10 11	5 31	1	2 0 4.202	45 6 5.81	9012	1509	6873
10 11	14 46	1	0 28 58.859	46 16 7.40	9006	8883	4900
10 11	14 46	1	0 31 5.573	45 44 19.21	9006	8883	4901
10 12	3 6	1	18 48 9.154	45 3 28.65	9010	1195	6852
10 12	3 6	1	18 56 23.892	44 52 54.81	9010	1195	6853
10 12	3 6	1	0 12 35.807	38 41 32.30	9001	2074	6802
10 12	6 11	1	1 23 41.560	57 51 2.44	9012	1530	6874
10 12	6 11	1	1 30 35.365	55 34 32.36	9012	1530	6875
10 12	12 21	1	19 45 37.243	28 29 35.67	9005	8992	7155
10 12	15 26	1	21 38 27.659	53 34 16.53	9006	8900	4902
10 12	15 27	1	21 49 49.402	52 39 5.04	9006	8900	4903
10 12	15 27	1	1 27 21.332	29 37 11.58	9008	4545	7150
10 12	15 27	1	1 28 59.564	28 50 27.35	9008	4545	7151
10 12	21 37	1	20 39 57.901	29 44 33.14	9004	899	6886
10 12	21 37	1	20 42 35.444	29 25 4.62	9004	899	6887
10 13	6 52	1	23 19 22.239	66 53 4.14	9012	1547	6876
10 13	6 52	1	23 35 6.892	65 24 46.53	9012	1547	6877
10 13	16 7	1	19 45 38.234	41 14 27.28	9006	8911	4904
10 13	16 7	1	19 50 43.947	40 54 17.57	9006	8911	4905
10 13	22 18	1	19 41 37.579	19 42 1.67	9004	924	6888
10 13	22 18	1	19 45 14.314	19 9 25.65	9004	924	6889
10 14	1 22	1	0 5 49.038	49 15 31.80	9010	1221	6854
10 14	1 23	1	0 10 28.111	48 13 13.68	9010	1221	6855
10 14	4 27	1	19 55 43.343	34 15 34.82	9001	2112	6803
10 14	4 28	1	20 2 57.966	33 32 46.14	9001	2112	6804
10 14	7 32	1	19 33 5.383	60 39 9.47	9012	1567	6878
10 14	7 33	1	19 43 6.020	60 37 27.19	9012	1567	6879
10 14	16 47	1	22 44 33.830	47 19 8.46	9008	4584	7152
10 14	19 53	1	0 12 3.002	22 2 34.92	9004	943	6890
10 14	19 53	1	0 15 1.937	21 7 22.66	9004	943	6891
10 15	17 29	1	20 42 1.824	39 5 30.75	9008	4606	5439
10 15	20 34	1	22 59 22.630	21 3 15.55	9004	966	6892
10 15	20 34	1	23 3 47.442	20 1 42.32	9004	966	6893
10 16	21 15	1	21 24 17.284	15 37 2.03	9004	991	6894
10 17	0 19	1	1 6 59.893	31 47 51.87	9010	1248	6856
10 17	0 19	1	1 11 7.739	30 1 45.31	9010	1248	6857
10 17	15 45	1	0 47 7.454	24 55 14.60	9008	4640	5440
10 17	15 45	1	0 49 35.318	23 57 48.67	9008	4640	5441
10 17	18 41	1	21 33 27.697	55 21 18.20	9004	1004	5146
10 18	1 0	1	0 24 20.704	35 19 40.55	9010	1263	6858
10 18	1 0	1	0 21 28.212	33 7 40.73	9010	1263	6859
10 18	16 26	1	23 31 27.162	27 4 42.82	9008	4661	5767

DATE	TIME (A-1)	RMS	R.A. (1950.0)	DECL. (1950.0)	STATION	FRAME NO.	SRS. NO.
Y M D	H M S	MS	H M S	D M S			
1963 10 19	14 2 22.2352	1	0 44 51.860	15 44 59.84	9006	8990	05 7290
10 19	14 2 26.2352	1	0 46 7.454	15 16 16.93	9006	8990	06 8300
10 19	20 12 2.7771	1	23 23 3.327	4 43 17.39	9004	1027	05 5147
10 19	20 12 6.7771	1	23 24 48.813	4 15 18.95	9004	1027	06 5148
10 20	5 54 59.2447	1	1 43 55.431	-56 8 24.71	9011	1059	02 7158
10 20	11 37 7.7815	1	20 45 3.638	6 32 20.79	9005	9035	04 7156
10 20	11 37 23.7816	1	20 52 50.376	4 47 28.99	9005	9035	08 7157
10 20	20 53 .4107	1	21 58 43.039	- 0 31 52.06	9004	1051	04 5149
10 20	20 53 4.4107	1	22 0 45.012	- 1 0 37.70	9004	1051	05 5150
10 21	3 2 50.0211	1	22 59 47.747	10 37 24.70	9001	2199	03 6864
10 21	3 3 2.0212	1	23 5 55.018	9 0 29.67	9001	2199	06 6865
10 21	15 22 44.9020	1	0 41 45.707	13 57 28.50	9008	4720	01 5443
10 21	15 22 48.9020	1	0 42 53.330	13 31 23.30	9008	4720	02 5444
10 21	15 23 .3420	1	20 55 6.523	17 44 59.72	9006	9030	01 8301
10 22	3 44 2.3661	1	21 29 26.464	2 36 49.66	9001	2222	04 6846
10 22	3 44 14.3661	1	21 35 45.235	1 3 59.11	9001	2222	07 6847
10 22	6 48 54.3723	1	21 43 16.250	38 26 53.48	9012	1637	07 6968
10 22	16 3 57.2704	1	23 44 26.205	10 19 23.54	9008	4739	03 5445
10 22	16 4 9.2706	1	23 49 39.186	8 43 42.10	9008	4739	06 5446
10 23	1 18 57.1122	1	22 36 38.449	19 45 24.28	9010	1316	05 6860
10 23	1 19 13.1148	1	22 45 56.892	17 24 35.51	9010	1316	09 6861
10 23	4 24 45.8032	1	20 13 26.721	- 1 12 51.80	9001	2235	03 6848
10 23	4 24 57.8031	1	20 18 4.900	- 2 28 21.78	9001	2235	06 6849
10 23	7 30 2.4168	1	20 0 55.899	24 25 44.57	9012	1649	06 6969
10 25	5 46 23.7489	1	0 29 18.681	16 53 17.41	9012	1657	03 6970
10 25	5 46 25.7489	1	0 30 6.121	16 35 59.58	9012	1657	04 6971
10 25	15 1 50.6990	1	21 55 38.100	- 7 23 26.37	9006	9072	03 8302
10 25	15 1 58.6991	1	21 59 43.930	- 8 28 4.68	9006	9072	05 8303
10 26	0 16 46.1509	1	0 38 23.686	- 0 21 21.59	9010	1351	05 6862
10 26	0 17 18.1515	1	0 47 59.639	- 3 38 46.63	9010	1351	09 6863
10 26	3 22 28.6903	1	22 10 1.728	-17 14 41.79	9001	2278	04 6850
10 26	3 22 32.6905	1	22 11 54.570	-17 42 19.27	9001	2278	05 6851
10 26	6 27 24.0079	1	22 39 46.301	12 57 48.66	9012	1668	03 6972
10 26	6 27 26.0078	1	22 40 58.391	12 38 12.70	9012	1668	04 6973
10 26	15 40 15.8778	1	23 16 35.410	5 39 52.45	9008	4792	01 5447
11 2	23 27 3.1165	1	22 55 44.913	6 59 24.42	9010	1470	07 2523
11 2	23 27 7.1160	1	22 57 16.708	6 31 23.09	9010	1470	08 2524
11 9	6 41 18.7287	1	19 42 25.313	-29 27 29.06	9012	1829	05 1942
11 9	12 42 53.0528	1	20 32 24.845	2 50 58.72	9006	9325	05 1945
11 9	12 43 9.0532	1	20 38 35.337	1 9 43.96	9006	9325	09 1946
11 10	1 3 17.3228	1	20 38 53.009	- 4 54 54.01	9001	2488	01 1936
11 10	1 3 25.3235	1	20 41 46.240	- 5 42 24.79	9001	2488	02 1937
11 10	19 37 26.1545	1	20 3 43.957	-27 44 3.09	9004	1245	02 1943
11 10	19 37 34.1548	1	20 5 54.112	-28 22 31.94	9004	1245	03 1944
11 14	0 45 31.3028	1	19 25 9.546	-27 50 41.58	9010	1574	09 2522

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.	SRS.NO.
1963 11 16	23 54	1	0 14 58.355	0 35 31.65	4	9011	1357	2525
11 18	12 39	1	19 47 10.287	-26 28 17.41	4	9006	9518	695
11 18	12 39	1	19 49 26.191	-27 11 .19	4	9006	9518	696
11 18	12 59	1	20 21 20.543	-27 42 2.19	4	9003	7126	1940
11 30	9 49	1	10 18 2.968	31 10 1.84	4	9009	9683	2520
11 30	9 49	1	10 23 53.629	32 22 16.81	4	9009	9683	2521
11 30	12 52	1	9 35 15.895	9 29 8.66	4	9001	2824	1938
11 30	12 53	1	9 38 39.300	10 26 23.58	4	9001	2824	1939
12 19	22 21	1	7 2 23.962	8 16 45.34	4	9006	9978	4124
12 19	22 21	1	7 4 33.158	8 55 21.13	4	9006	9978	4125
12 20	7 36	1	8 21 26.330	13 5 38.54	4	9010	1938	4126
12 26	8 40	1	7 32 36.294	34 8 12.96	4	9010	1975	4127
12 26	21 1	10	8 50 56.732	36 22 36.45	4	9006	78	4128
12 26	21 2	10	9 1 19.784	37 57 8.56	4	9006	78	4129
12 27	0 16	1	7 36 13.751	40 5 29.14	4	9006	83	4130
12 27	0 17	1	7 42 2.497	41 16 23.95	4	9006	83	4131
12 27	9 21	1	8 47 3.323	32 59 11.16	4	9001	3132	4117
12 27	12 42	1	8 26 45.536	46 25 7.84	4	9001	3138	4118
12 27	12 43	1	8 36 24.273	47 46 4.04	4	9001	3138	4119
12 28	10 3	1	8 6 49.737	35 30 2.99	4	9001	3151	4120
12 28	10 5	1	8 30 39.384	39 30 4.97	4	9001	3151	4121
12 30	11 24	1	6 59 8.173	32 46 11.46	4	9001	3185	4122
12 30	11 25	1	7 3 16.123	33 44 23.36	4	9001	3185	4123

DATE	TIME (A-1)	RMS	R.A. (1950.0)	DECL. (1950.0)	STATION	FRAME NO.	CRS. NO.
Y M D	H M S	MS	H M S	D M S			
1963 10 1	10 5 32.2809	1	4 44 54.573	- 3 38 10.66	9001	1879	4780
10 1 10 5 44.2808	1	1	4 52 53.342	- 1 55 2.25	9001	1879	4781
10 1 10 12 11.0679	1	1	8 4 25.132	28 4 36.61	9001	1880	4782
10 1 10 12 19.0679	1	1	8 7 4.570	28 16 47.40	9001	1880	4783
10 1 13 50 41.0014	1	1	3 9 42.314	35 13 3.69	9012	1445	4674
10 1 13 50 43.0015	1	1	3 11 35.396	35 32 40.81	9012	1445	4675
10 2 23 38 44.0173	1	1	4 13 26.133	10 38 26.19	9008	4393	5051
10 2 23 38 52.0174	1	1	4 19 47.420	11 53 5.11	9008	4393	5052
10 2 23 41 51.0187	1	1	1 54 .718	26 15 .88	9006	8754	6624
10 2 23 42 11.0191	1	1	2 2 39.048	28 37 55.57	9006	8754	6625
10 2 23 46 13.3966	1	1	4 32 6.583	53 9 2.18	9006	8755	6626
10 2 23 46 33.3975	1	1	4 48 11.497	54 22 12.27	9006	8755	6627
10 4 1 29 4.4830	1	1	23 45 15.302	-47 59 38.31	9011	792	5193
10 4 9 26 49.8717	1	1	6 9 37.221	7 14 57.11	9001	1930	4784
10 4 9 26 57.8718	1	1	6 13 53.976	8 6 26.91	9001	1930	4785
10 4 20 15 43.1067	1	1	19 37 59.415	-55 18 30.25	9002	4985	5783
10 4 20 42 59.2162	1	1	6 55 41.552	15 2 9.49	9006	8769	6628
10 4 20 43 19.2165	1	1	7 4 7.069	16 30 26.60	9006	8769	6629
10 5 7 58 59.8489	1	1	6 4 45.969	29 11 7.84	9010	1138	5031
10 5 7 59 7.8503	1	1	6 10 27.461	29 48 16.40	9010	1138	5032
10 5 11 44 34.2117	1	1	1 22 45.418	11 13 15.46	9001	1955	4786
10 5 18 46 46.9132	1	1	0 51 13.777	-56 24 1.21	9002	5009	5156
10 5 18 47 32.4170	1	1	1 22 23.368	-50 33 41.81	9002	5009	5157
10 5 23 0 20.7353	1	1	1 24 52.508	19 47 18.57	9006	8788	6630
10 5 23 0 57.3671	1	1	6 37 40.271	25 30 5.84	9008	4448	5053
10 6 2 17 45.8423	1	1	20 18 4.052	-42 17 31.28	9011	836	5191
10 6 2 17 49.8423	1	1	20 21 15.739	-42 12 3.15	9011	836	5192
10 6 2 45 43.2877	1	1	6 5 30.190	5 19 45.54	9004	781	4798
10 6 2 45 51.2874	1	1	6 9 46.190	6 8 24.82	9004	781	4799
10 6 21 36 58.0743	10	10	8 16 8.676	39 35 26.88	9006	8806	4860
10 6 21 37 2.0746	10	10	8 17 42.825	39 35 22.14	9006	8806	4861
10 7 5 3 27.4466	1	1	1 44 38.399	9 29 24.05	9004	806	4800
10 7 8 48 11.8702	1	1	7 8 11.086	13 46 28.70	9001	1982	4787
10 7 8 53 35.4952	1	1	7 57 45.280	53 41 10.49	9010	1153	5033
10 7 8 53 59.4969	1	1	8 11 23.966	53 9 33.51	9010	1153	5034
10 7 19 36 29.3675	10	10	21 49 31.368	-58 24 5.62	9002	5068	5158
10 7 19 36 45.3676	10	10	22 9 38.411	-57 38 19.19	9002	5068	5159
10 7 20 4 .8177	1	1	7 30 29.752	17 27 41.76	9006	8819	4859
10 7 23 49 12.3180	1	1	3 18 12.893	32 5 55.87	9008	4476	5054
10 7 23 49 16.3182	1	1	3 21 49.377	32 42 .66	9008	4476	5055
10 8 3 34 52.7771	1	1	4 12 41.879	13 15 .21	9004	817	5789
10 8 3 34 56.7772	1	1	4 15 45.612	13 46 22.24	9004	817	5790
10 8 10 37 10.4918	1	1	1 30 44.123	-28 10 26.42	9003	6334	4906
10 8 10 37 22.4917	1	1	1 34 49.604	-26 54 20.82	9003	6334	4907
10 8 11 5 11.4845	1	1	1 48 18.751	19 9 45.14	9001	2007	4788

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.	SRS. NO.
1963 10 8	11 5 27.4835	10	1 56 49.379	21 22 49.87	9001	2007	06
10 8	18 7 17.7564	10	1 27 30.246	-44 4 49.72	9002	5092	02
10 8	18 7 41.7560	10	1 37 37.378	-41 12 34.02	9002	5092	05
10 8	22 21 27.0043	10	2 25 39.765	35 23 26.82	9006	8837	04
10 8	22 21 39.0038	10	2 34 53.353	37 12 50.87	9006	8837	07
10 8	22 27 19.9957	1	7 49 23.449	54 47 19.51	9006	8838	03
10 8	22 27 27.9960	10	7 54 34.681	54 36 32.19	9006	8838	04
10 8	9 37 13.4092	1	0 59 26.781	30 50 4.08	9010	1176	04
10 9	9 37 17.3745	1	5 58 47.011	26 22 8.65	9001	2021	02
10 9	9 37 29.3746	1	6 7 34.925	27 17 53.08	9001	2021	05
10 9	9 37 29.4100	1	1 5 48.400	32 57 20.27	9010	1176	08
10 9	12 54 33.4534	1	20 2 22.354	-34 15 8.15	9003	6362	07
10 9	12 54 41.4532	1	20 7 27.661	-33 56 37.51	9003	6362	09
10 9	13 22 32.0439	1	4 52 53.890	63 54 11.95	9012	1486	02
10 9	13 22 34.0438	1	4 55 45.272	63 58 7.57	9012	1486	03
10 9	13 26 17.8212	1	8 29 57.065	59 14 25.41	9012	1487	03
10 9	13 26 25.8212	1	8 34 4.283	58 55 37.55	9012	1487	05
10 10	0 5 21.8810	1	22 19 31.440	-54 58 15.62	9011	918	02
10 10	0 5 45.8803	1	22 39 38.209	-53 26 55.57	9011	918	05
10 10	0 38 57.9437	1	1 31 30.657	32 15 34.99	9008	4519	05
10 10	0 38 59.9436	1	1 32 29.805	32 32 7.53	9008	4519	06
10 10	4 24 25.2233	1	2 24 35.696	18 59 30.02	9004	859	05
10 10	4 24 29.2235	1	2 26 53.983	19 29 55.05	9004	859	06
10 10	8 9 11.0274	1	5 20 58.552	49 19 29.59	9010	1184	05
10 10	8 9 23.0278	1	5 34 1.204	49 52 53.31	9010	1184	08
10 10	8 11 26.8343	1	7 24 8.159	50 57 35.92	9010	1185	04
10 10	8 11 34.8346	1	7 29 38.343	50 51 12.37	9010	1185	05
10 10	11 26 14.2895	1	0 12 31.654	-35 57 3.76	9003	6384	05
10 10	11 26 26.2891	1	0 20 40.240	-34 19 51.56	9003	6384	08
10 10	23 10 51.9352	1	6 4 15.914	43 7 29.07	9008	4529	05
10 10	23 10 53.9349	1	6 6 4.922	43 12 11.87	9008	4529	06
10 11	2 27 59.2978	1	20 8 22.396	-25 50 47.59	9011	941	02
10 11	2 28 7.2976	1	20 12 57.358	-25 51 51.90	9011	941	03
10 11	2 56 12.4750	1	6 0 47.621	22 13 37.60	9004	874	04
10 11	2 56 16.4751	1	6 3 35.759	22 32 31.33	9004	874	05
10 11	10 26 31.9519	1	3 19 17.686	36 8 43.88	9001	2061	03
10 11	10 26 43.9519	1	3 30 21.724	37 45 7.49	9001	2061	06
10 11	14 11 48.8955	1	1 3 39.714	56 23 21.96	9012	1519	02
10 11	14 11 56.8956	1	1 8 32.830	57 28 3.46	9012	1519	06
10 11	17 57 15.3400	1	3 46 5.676	27 33 11.15	9005	8984	07
10 11	17 57 23.3400	1	3 53 1.475	28 34 20.29	9005	8984	09
10 11	21 42 50.6263	1	4 54 34.347	50 23 59.59	9006	8888	06
10 11	21 42 54.6267	1	4 59 10.975	50 38 52.76	9006	8888	07
10 11	21 45 52.0520	1	7 44 13.275	51 59 28.93	9006	8888	05
10 11	21 46 .0523	1	7 49 26.011	51 48 31.22	9006	8888	06

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.	NR.S.NO.
1963 10 12	1 32 20.7916	1	2 30 5.673	50 58 7.76	9008	4543	5198
10 12	1 32 32.7917	1	2 37 9.784	52 6 33.74	9008	4543	5199
10 12	8 58 50.4700	1	7 28 33.523	28 27 15.01	9001	2077	3906
10 12	8 58 58.4699	1	7 32 14.275	28 41 24.45	9001	2077	5026
10 12	12 16 1.6264	1	22 2 9.632	-29 23 51.44	9003	6429	4912
10 12	12 44 24.4817	1	8 5 1.015	57 11 59.81	9012	1533	4927
10 12	12 44 36.4817	1	8 11 49.064	56 44 12.49	9012	1533	4928
10 12	16 29 36.4942	1	7 21 36.225	22 12 40.31	9005	8994	4664
10 12	19 46 57.5750	10	21 9 16.233	-40 40 24.24	9002	5131	7035
10 12	23 59 26.9410	1	2 15 7.498	43 59 2.66	9008	4553	5200
10 13	3 44 55.0548	1	3 18 29.027	27 1 59.29	9004	905	4809
10 13	3 45 3.0549	1	3 25 4.447	28 5 41.43	9004	905	4810
10 13	10 47 22.3448	1	1 9 19.665	-21 28 31.13	9003	6452	4913
10 13	10 47 26.3447	1	1 10 58.886	-21 0 2.87	9003	6452	4914
10 13	11 15 28.1483	1	1 20 7.959	28 16 40.09	9001	2097	3908
10 13	11 15 44.1486	1	1 27 13.613	30 18 9.73	9001	2097	3909
10 13	18 17 26.4473	10	0 48 47.301	-40 10 14.78	9002	5160	5169
10 13	22 31 27.3741	1	7 20 6.469	39 42 29.99	9008	4563	5201
10 13	22 31 35.3742	1	7 24 53.547	39 45 56.63	9008	4563	5202
10 13	22 31 35.8421	10	1 34 7.733	42 21 7.75	9006	8919	4851
10 13	22 31 47.8426	10	1 41 25.955	44 3 24.60	9006	8919	4852
10 14	1 49 4.7695	1	23 4 36.958	-64 43 45.18	9007	559	4922
10 14	2 17 .5188	1	7 4 18.705	23 14 47.96	9004	926	4811
10 14	2 19 56.0845	1	8 17 44.643	27 41 38.89	9004	927	4812
10 14	9 47 39.6054	1	5 38 25.525	44 53 17.47	9001	2114	3910
10 14	9 47 47.6047	10	5 46 37.731	45 13 34.81	9001	2114	3911
10 14	13 4 43.9513	1	19 56 17.267	-18 19 9.75	9003	6474	4915
10 14	13 4 55.6541	1	20 1 39.164	-17 29 25.38	9003	6474	4916
10 14	13 32 46.5594	1	3 1 8.155	72 16 10.44	9012	1570	4929
10 14	13 32 52.5595	1	3 11 29.792	72 43 54.91	9012	1570	4930
10 14	13 37 .8002	1	9 0 31.957	66 50 1.71	9012	1571	4931
10 14	13 37 24.8016	1	9 13 13.145	65 25 45.60	9012	1571	4932
10 14	21 3 40.4056	10	6 59 30.169	48 57 42.86	9006	8937	6123
10 14	21 3 48.4060	10	7 5 57.433	48 53 33.37	9006	8937	8318
10 15	0 20 49.9598	1	0 59 59.298	-15 3 11.60	9011	962	5451
10 15	0 21 1.9596	1	1 5 10.588	-13 37 27.24	9011	962	5452
10 15	4 34 24.0048	1	1 50 10.681	25 57 2.36	9004	954	5781
10 15	4 34 36.0048	1	1 56 7.944	27 21 58.77	9004	954	4793
10 15	8 19 46.4810	1	0 14 17.962	70 19 29.66	9009	9266	3271
10 15	11 37 6.7051	1	23 45 51.760	-17 49 55.93	9003	6492	4917
10 15	11 37 12.7049	1	23 49 59.186	-16 57 11.01	9003	6492	1770
10 15	12 10 55.5620	1	3 49 25.942	56 43 23.16	9001	2144	3912
10 15	12 11 11.5622	1	4 2 32.609	57 43 52.80	9001	2144	3913
10 15	23 21 1.5071	1	5 20 11.269	58 32 37.62	9008	4612	5203
10 15	23 21 9.5072	1	5 30 48.212	58 43 42.86	9008	4612	5794

DATE	TIME (A-I)	RMS	R.A. (1950.0)	DECL. (1950.0)	STATION	FRAME NO.	CRS. NO.
Y M D	H M S	MS	H M S	D M S			
1963 10 15	23 25	1	9 3 52.697	50 36 36.21	9008	4613	02 5204
10 15	23 25	1	9 6 55.487	50 17 21.19	9008	4613	03 5205
10 16	2 38	1	20 10 10.582	- 9 8 49.95	9011	992	02 5793
10 16	2 38	1	20 13 37.411	- 8 26 15.09	9011	992	03 5454
10 16	3 6	1	5 52 9.984	38 33 46.98	9004	972	02 4794
10 16	3 6	1	6 3 1.288	39 3 56.24	9004	972	05 4795
10 16	10 0	1	21 52 41.125	-52 51 9.59	9003	6509	03 5788
10 16	10 1	1	22 7 .629	-51 46 17.00	9003	6509	08 4920
10 16	10 43	1	8 54 4.038	53 1 11.22	9001	2153	04 3914
10 16	10 43	1	9 1 17.700	52 19 30.43	9001	2153	06 3915
10 16	14 22	1	0 37 8.155	59 15 53.32	9012	1608	03 4933
10 16	14 22	1	0 42 40.303	60 41 53.58	9012	1608	06 4934
10 16	17 38	10	1 32 25.872	-24 32 21.15	9002	5223	02 5163
10 16	17 39	10	1 40 29.600	-21 48 41.12	9002	5223	05 5164
10 17	5 29	1	4 20 50.720	51 13 42.90	9004	1002	03 4796
10 17	5 30	1	4 46 21.965	52 49 19.34	9004	1002	07 5782
10 17	12 26	1	21 13 58.978	-11 9 50.96	9003	6534	06 6121
10 17	12 26	1	21 16 28.588	-10 41 30.26	9003	6534	08 4921
10 17	12 54	1	8 9 14.689	69 34 3.98	9012	1614	05 4935
10 17	12 54	1	8 16 17.180	69 1 47.90	9012	1614	07 4936
10 17	12 56	1	9 16 53.029	62 20 52.98	9012	1615	02 5046
10 17	19 57	10	20 29 55.858	-20 41 48.51	9002	5252	06 5165
10 17	19 57	10	20 35 .993	-19 52 17.49	9002	5252	08 5166
10 17	23 33	1	21 24 43.877	-50 4 14.58	9011	998	03 5455
10 17	23 34	1	21 35 53.208	-49 18 38.97	9011	998	05 5456
10 18	0 10	1	1 58 23.678	54 16 52.96	9008	4651	04 5206
10 18	0 10	1	2 0 .338	54 32 22.87	9008	4651	05 5795
10 18	11 26	1	1 19 1.925	37 4 45.35	9001	2178	03 3916
10 18	11 26	1	1 27 42.329	39 21 17.56	9001	2178	08 3917
10 18	18 28	10	0 15 37.331	-25 1 19.16	9002	5269	03 5167
10 18	18 28	10	0 23 16.358	-23 12 6.95	9002	5269	06 5168
10 18	22 41	1	7 34 54.675	53 44 .25	9008	4667	03 5208
10 18	22 42	1	7 41 .953	53 25 27.04	9008	4667	05 5209
10 19	1 59	1	20 53 41.781	- 5 22 9.06	9011	1024	03 5457
10 19	1 59	1	20 55 48.638	- 4 54 57.02	9011	1024	04 5458
10 19	13 15	1	20 1 24.116	- 3 10 50.87	9003	6562	07 5798
10 19	21 13	1	6 50 6.354	62 21 6.72	9006	8995	02 6125
10 19	21 14	10	6 54 51.823	62 11 53.30	9006	8995	03 6126
10 19	21 17	1	9 17 52.996	50 52 23.50	9006	8996	01 4820
10 19	21 17	1	9 20 35.220	50 29 30.58	9006	8996	02 4821
10 20	0 31	1	0 19 6.538	- 2 18 36.17	9011	1049	02 5459
10 20	0 31	1	0 31 23.837	0 36 29.56	9011	1049	08 5460
10 20	0 59	1	0 53 35.811	38 33 20.14	9008	4696	03 5210
10 20	0 59	1	0 57 37.430	39 48 33.58	9008	4696	06 5211
10 20	4 44	1	1 39 52.335	31 41 32.16	9004	1039	02 4671

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.	NRS.NO.
1963 10 20	12 17	41.7140		1	1 48 40.730			39 59 31.11			9001	2193	3918
10 20	12 18	5.7145		1	1 58 16.294			42 1 19.09			9001	2193	3919
10 20	12 21	5.2034		1	3 38 59.807			55 46 40.31			9001	2194	3920
10 20	12 21	29.2038		1	3 57 12.699			57 10 4.30			9001	2194	3921
10 20	23 31	29.2302		1	4 43 10.471			67 55 55.10			9008	4711	5212
10 20	23 31	33.2302		1	4 50 7.794			68 2 50.64			9008	4711	7037
10 20	23 42	13.5394		1	8 56 45.803			60 39 56.60			9006	9022	4822
10 20	23 42	29.5401		1	9 4 58.248			59 52 36.18			9006	9022	4823
10 21	2 48	39.0361		1	20 5 51.253			2 43 25.59			9011	1082	5461
10 21	2 48	47.0361		1	20 8 23.966			3 26 48.97			9011	1082	5462
10 21	2 49	2.3628		1	19 46 46.190			-28 9 59.12			9007	679	4923
10 21	3 16	42.7011		1	5 17 54.408			50 18 50.06			9004	1056	4672
10 21	3 16	54.7011		1	5 32 2.680			50 41 1.26			9004	1056	4673
10 21	10 8	34.9458		1	19 42 .222			-49 46 36.58			9003	6577	5466
10 21	10 47	53.2257		1	2 36 46.664			56 11 13.82			9001	2205	5029
10 21	10 48	5.2256		1	2 48 31.620			57 28 19.10			9001	2205	5030
10 22	1 20	41.5355		1	22 29 5.381			8 26 30.10			9011	1105	5463
10 22	1 21	1.5352		1	22 41 29.541			11 9 38.65			9011	1105	5464
10 22	5 36	21.4669		1	2 17 2.535			36 27 18.67			9004	1089	3261
10 22	5 36	53.4674		1	2 31 35.625			38 56 16.11			9004	1089	3262
10 22	5 40	48.6838		1	5 3 13.863			52 46 34.74			9004	1090	3263
10 22	5 41	4.6839		1	5 15 54.662			53 11 51.77			9004	1090	3264
10 22	9 19	14.1797		1	1 3 3.014			55 10 34.79			9010	1305	5040
10 22	9 19	30.1797		1	1 11 32.446			57 2 55.41			9010	1305	5041
10 22	12 36	4.6162		1	20 38 53.295			2 38 52.65			9003	6600	5467
10 22	12 36	24.6159		1	20 47 39.084			4 56 20.25			9003	6600	5468
10 22	13 4	38.6005		1	8 7 23.188			78 13 51.09			9012	1638	5792
10 22	13 4	46.6002		1	8 19 3.590			77 35 25.79			9012	1638	5048
10 22	13 6	44.4128		1	9 45 5.080			68 2 10.34			9012	1639	5049
10 22	13 7	4.4131		1	9 52 19.814			66 33 5.74			9012	1639	5050
10 22	16 49	31.1190		1	7 20 47.660			45 55 18.23			9005	9038	4665
10 22	16 49	47.1190		1	7 32 40.371			45 29 59.08			9005	9038	4666
10 23	0 20	3.8554		1	1 13 32.932			51 45 32.03			9008	4746	5214
10 23	0 20	7.8557		1	1 15 46.941			52 15 6.22			9008	4746	7038
10 23	4 5	27.3338		1	2 17 43.649			42 57 44.13			9004	1105	4005
10 23	4 5	43.3340		1	2 29 53.071			44 50 15.53			9004	1105	3266
10 23	11 36	16.6686		1	1 11 27.825			37 52 50.96			9001	2238	6631
10 23	11 36	40.6688		1	1 20 41.143			40 14 11.85			9001	2238	6632
10 23	15 28	44.1857		1	4 36 25.017			74 47 8.74			9012	1656	4862
10 23	15 28	52.1857		1	4 47 13.463			74 58 46.25			9012	1656	5787
10 23	18 38	42.3828		10	23 15 31.345			- 5 40 46.13			9002	5342	5170
10 23	18 38	58.3827		10	23 26 27.070			- 3 10 8.97			9002	5342	5171
10 23	19 8	3.2254		1	2 4 4.682			41 17 30.37			9005	9054	4667
10 24	2 9	52.6888		1	20 44 26.011			-26 58 58.54			9007	744	6127
10 24	2 37	48.6825		1	7 31 36.271			46 44 49.17			9004	1121	3267

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.	OR.S. NO.
1963 10 24	2 38	4.6828	7 43 6.481	46 11 35.11	4	9004	1121	07 3268
10 24	17 38	36.1283	4 26 54.750	56 51 53.88	4	9005	9068	05 4668
10 24	17 38	44.1282	4 38 1.190	57 15 54.98	4	9005	9068	06 4669
10 25	8 39	58.1852	1 58 9.167	69 37 33.64	4	9010	1348	05 5042
10 25	8 40	14.1871	2 19 8.622	71 17 1.48	4	9010	1348	09 5043
10 25	12 25	25.5116	9 42 59.039	66 18 34.18	4	9012	1660	04 4864
10 25	12 25	29.5117	9 44 17.282	65 59 13.67	4	9012	1660	05 4865
10 25	23 41	26.0064	3 13 19.717	69 59 8.02	4	9008	4783	02 5216
10 25	23 41	30.0064	3 20 3.988	70 17 23.55	4	9008	4783	03 5217
10 25	23 49	38.0971	6 24 18.459	64 23 1.81	4	9006	9083	01 4824
10 25	23 50	18.0979	7 0 59.717	63 37 32.31	4	9006	9083	06 4825
10 26	7 12	20.9577	9 20 38.305	56 13 30.85	4	9010	1358	06 5044
10 26	7 12	28.9578	9 23 24.351	55 40 27.32	4	9010	1358	07 5045
10 26	10 57	37.1182	1 55 13.923	53 30 14.84	4	9001	2287	04 6633
10 26	10 57	45.1180	2 1 5.241	54 22 55.96	4	9001	2287	06 6634
10 26	17 58	48.9845	23 59 46.676	- 2 25 43.69	4	9002	5404	09 3269
10 26	17 59	16.8964	0 15 14.698	1 22 2.80	4	9002	5404	13 3720
10 27	9 29	47.1677	8 8 9.814	59 53 24.15	4	9001	2303	02 6635
10 27	9 29	55.1679	8 14 28.854	59 17 45.16	4	9001	2303	03 6636
10 27	13 14	59.6299	7 47 30.073	83 0 6.44	4	9012	1690	04 4866
10 27	13 15	3.6299	7 58 4.950	82 41 40.75	4	9012	1690	05 4867
10 27	20 45	52.5942	9 12 37.863	56 47 33.81	4	9006	9094	02 4826
10 27	20 46	.5946	9 15 54.069	56 11 35.87	4	9006	9094	03 4827
10 28	11 18	54.9310	23 15 32.753	26 26 9.04	4	9003	6689	04 5469
10 28	11 19	10.9308	23 24 30.588	28 7 29.01	4	9003	6689	08 5470
10 28	23 2	29.0297	7 36 30.690	70 36 9.89	4	9008	4832	02 5218
10 28	23 2	33.0299	7 41 52.683	70 17 7.08	4	9008	4832	03 5219
10 28	23 2	37.7768	1 15 5.600	48 40 12.55	4	9006	9119	01 4828
10 28	23 2	45.7771	1 18 38.225	49 25 43.13	4	9006	9119	02 4829
10 29	10 18	25.0491	3 33 51.068	66 32 54.80	4	9001	2341	02 6637
10 29	10 18	41.0493	3 59 40.623	67 30 21.19	4	9001	2341	06 6638
10 29	10 27	17.4471	7 8 16.977	63 58 36.57	4	9010	1416	07 5194
10 29	10 27	33.4475	7 21 28.797	63 27 40.39	4	9010	1416	09 5195
10 29	14 3	42.6173	0 36 26.729	70 0 53.41	4	9012	1706	03 4813
10 29	14 3	50.8174	0 41 24.487	70 50 46.00	4	9012	1706	05 4814
10 29	21 34	31.8397	5 51 34.129	74 52 52.11	4	9006	9136	02 4830
10 29	21 34	39.8398	6 9 7.026	74 37 41.16	4	9006	9136	04 4831
10 30	8 50	26.2457	1 52 13.193	69 18 1.08	4	9010	1431	07 8319
10 30	8 50	30.2458	1 56 40.452	69 42 6.78	4	9010	1431	08 8320
10 30	8 50	41.1253	9 13 18.969	48 37 58.61	4	9001	2351	03 6639
10 30	8 50	57.1254	9 18 37.329	47 36 30.72	4	9001	2351	05 6640
10 30	23 52	8.2935	3 24 35.425	71 10 36.30	4	9008	4867	03 5220
10 30	23 52	16.2937	3 38 22.481	71 39 31.09	4	9008	4867	05 5221
10 30	23 56	18.3144	3 24 22.561	54 13 21.66	4	9006	5166	01 4832
10 30	23 56	58.3155	3 51 50.926	56 2 20.77	4	9006	5166	06 4833

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.	NRS.NO.
1963 10 31	0	1	24.4617	1	7 19	29.274		56 46	12.91	4	9006	9167 03	3273
10 31	0	1	48.4636	1	7 35	6.448		55 56	25.84	4	9006	9167 06	3274
10 31	11	7	30.9338	1	1 46	2.909		50 22	51.62	4	9001	2371 01	6641
10 31	11	7	46.9341	1	1 56	7.155		51 55	25.89	4	9001	2371 03	6642
10 31	11	17	48.6490	1	9 49	27.323		44 5	32.71	4	9001	2373 05	6122
10 31	18 38	47.9203	1	2 43	54.027			50 33	17.87	4	9005	9093 02	4670
10 31	22 23	26.3973	1	1 45	55.928			61 24	34.05	4	9006	9182 05	3721
10 31	22 23	34.3976	1	1 52	36.702			62 13	26.47	4	9006	9182 07	3276
11 3	10 28	50.7419	1	3 32	51.173			65 23	41.75	4	9001	2388 03	1540
11 3	17 59	17.3386	1	4 0	5.208			59 38	3.72	4	9005	9115 02	1739
11 3	17 59	25.3388	1	4 10	51.179			59 59	57.95	4	9005	9115 04	1740
11 3	18 9	6.2499	1	10 12	4.100			31 36	24.29	4	9005	9116 03	1741
11 3	21 47	22.7400	1	8 47	48.265			64 53	28.36	4	9006	9234 01	1927
11 3	21 47	30.7396	1	8 53	15.608			64 10	54.28	4	9006	9234 02	3625
11 4	1 2	43.3691	1	22 21	30.114			-54 49	22.68	4	9009	9423 02	66
11 4	1 2	46.9394	1	23 4	17.771			23 43	11.74	4	9007	893 05	1776
11 4	1 2	54.9390	1	23 10	5.771			25 1	58.79	4	9007	893 07	1777
11 4	9 0	52.4153	1	9 21	42.564			52 17	30.16	4	9001	2408 03	1542
11 4	9 1	8.4154	1	9 27	9.951			50 58	16.40	4	9001	2408 05	1543
11 5	11 18	13.1354	1	2 21	17.863			49 57	49.07	4	9001	2433 02	1544
11 5	11 18	21.1353	1	2 26	38.182			50 33	8.92	4	9001	2433 03	1545
11 5	22 34	19.9873	1	2 34	11.843			61 14	26.81	4	9006	9275 02	1929
11 5	22 34	35.9878	1	2 49	34.341			62 24	20.09	4	9006	9275 06	1930
11 5	22 49	7.0736	1	10 47	17.389			26 36	29.62	4	9006	9276 04	1931
11 5	22 49	31.0737	1	10 49	51.844			25 42	48.92	4	9006	9276 07	2516
11 6	9 50	19.8898	1	7 42	30.302			65 17	5.89	4	9001	2454 02	1546
11 6	9 50	23.8895	1	7 46	52.212			64 56	26.24	4	9001	2454 03	1547
11 6	21 5	54.1862	1	8 56	22.783			66 18	28.92	4	9006	9291 03	1932
11 6	21 6	2.1865	1	9 1	41.499			65 28	.45	4	9006	9291 04	1933
11 7	8 22	10.7362	1	6 16	35.519			76 16	10.81	4	9010	1505 05	1856
11 7	8 22	26.7365	1	6 49	16.288			75 26	44.02	4	9010	1505 07	1857
11 8	10 43	14.1496	1	3 47	40.140			47 36	7.89	4	9010	1535 05	1858
11 8	10 43	30.1496	1	3 56	37.590			47 59	56.18	4	9010	1535 07	1859
11 8	21 55	.4581	1	4 30	48.884			70 51	35.22	4	9006	9317 02	2517
11 8	21 55	16.4585	1	4 59	46.464			70 59	31.24	4	9006	9317 06	2518
11 9	1 12	36.5966	1	21 26	6.705			34 7	34.91	4	9007	972 02	1778
11 9	1 12	56.5966	1	21 36	26.190			37 9	34.71	4	9007	972 07	1779
11 9	20 26	58.7546	1	9 56	32.526			51 45	2.04	4	9006	9369 01	1750
11 9	20 27	6.7549	1	9 58	8.398			51 3	18.55	4	9006	9369 02	1751
11 9	23 41	41.7661	1	23 54	25.996			14 58	14.15	4	9007	984 08	1780
11 10	11 29	38.7488	1	3 34	58.273			48 13	27.75	4	9001	2510 01	1548
11 10	11 30	2.7490	1	3 52	59.464			49 1	18.82	4	9001	2510 04	1549
11 10	22 44	35.8677	1	2 58	41.616			55 25	47.37	4	9006	9400 01	1752
11 10	22 44	51.8684	1	3 12	4.093			56 15	33.49	4	9006	9400 03	1753
11 11	10 0	32.2846	1	7 3	43.574			62 57	48.36	4	9001	2529 02	1550

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.	SRS NO.
1963 11 11	10 0 36.2846	1	7 8 23.387	62 40 4.42	9001	2529	03
11 11	13 45 44.0967	1	3 41 33.830	77 26 45.02	9012	1849	01
11 11	13 45 56.0967	1	4 6 51.613	77 48 1.19	9012	1849	04
11 11	21 16 41.9142	1	8 46 17.106	62 48 43.51	9006	9421	01
11 11	21 16 49.9146	1	8 51 25.730	61 58 46.34	9006	9421	02
11 12	8 32 31.6915	1	9 56 47.415	39 27 8.59	9001	2547	01
11 12	8 32 47.6916	1	9 59 16.920	38 22 54.89	9001	2547	03
11 12	12 27 15.4428	1	7 28 9.747	29 44 44.06	9001	2557	02
11 12	12 27 39.4427	1	7 37 28.614	28 48 18.17	9001	2557	05
11 13	6 37 30.9540	1	22 17 47.005	-41 5 41.12	9012	1878	06
11 13	6 37 38.9540	1	22 22 44.967	-40 43 24.19	9012	1878	08
11 13	10 50 7.6442	1	4 35 6.245	54 22 52.01	9001	2571	05
11 13	10 50 15.6451	1	4 43 17.541	54 26 24.11	9001	2571	07
11 13	14 35 53.0461	1	3 4 33.308	62 37 31.32	9012	1887	02
11 13	14 36 9.0463	1	3 18 10.376	63 16 58.25	9012	1887	04
11 14	1 15 40.6984	1	19 1 34.343	- 2 25 7.22	9007	1059	03
11 14	1 15 48.6984	10	19 2 52.045	- 1 53 48.36	9007	1059	04
11 14	1 54 57.3325	1	4 34 34.046	36 53 57.66	9008	5014	02
11 14	1 55 13.3328	1	4 42 29.670	36 53 44.43	9008	5014	04
11 14	2 0 19.1125	1	7 5 33.488	30 34 9.73	9008	5015	04
11 14	2 0 27.1125	1	7 8 44.970	30 16 57.24	9008	5015	05
11 14	5 8 54.1684	1	1 45 41.178	-32 54 58.47	9012	1892	07
11 14	13 6 48.7154	1	8 44 27.336	75 21 20.58	9012	1905	02
11 14	13 7 16.7154	1	9 8 1.549	72 35 16.49	9012	1905	09
11 14	20 37 30.7592	1	9 48 18.183	50 7 35.27	9006	9476	02
11 15	4 8 11.4454	1	4 39 49.221	43 29 34.85	9004	1264	04
11 15	4 8 23.4453	1	4 50 14.598	43 29 26.41	9004	1264	07
11 15	7 53 21.7638	1	8 38 25.797	65 8 7.59	9010	1607	05
11 15	7 53 37.7643	1	8 49 22.013	63 26 3.18	9010	1607	07
11 15	11 38 43.7779	1	3 15 8.661	38 18 7.37	9001	2610	03
11 15	11 38 59.7781	1	3 24 13.621	38 42 19.38	9001	2610	05
11 15	15 33 48.6993	1	7 35 16.543	41 55 35.01	9012	1930	01
11 15	15 34 4.6993	1	7 41 53.791	41 11 31.56	9012	1930	05
11 15	15 45 21.7579	1	10 15 34.221	11 28 52.34	9012	1931	05
11 15	15 45 29.7579	1	10 16 34.238	11 12 53.11	9012	1931	06
11 15	22 54 49.1529	1	8 53 15.606	56 56 46.80	9008	5044	04
11 15	22 54 53.1530	1	8 55 21.508	56 31 14.64	9008	5044	05
11 16	17 42 17.2007	1	7 26 17.169	44 12 34.12	9005	9188	07
11 16	17 42 25.2009	1	7 31 52.209	43 36 6.90	9005	9188	08
11 16	21 27 2.7317	1	8 3 33.178	58 52 55.75	9006	9495	07
11 16	21 27 14.7316	1	8 12 30.169	57 42 38.51	9006	9495	10
11 17	0 35 42.0850	1	19 8 32.162	- 0 52 22.80	9007	1126	03
11 17	0 35 50.0851	1	19 9 59.685	- 0 17 15.31	9007	1126	04
11 17	8 42 55.7542	1	9 50 2.927	37 6 24.77	9001	2624	03
11 17	8 43 3.7541	1	9 51 26.648	36 30 27.48	9001	2624	04

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.	CHS. NO.
1963 11 17	8 57 37.8313	1	10 42 20.213	11 47 15.41	4	9010	1623	08
11 17	20 9 51.7283	1	7 52 47.137	10 18 37.73	4	9005	9215	01
11 17	23 52 42.2266	1	9 55 57.225	22 38 10.77	4	9008	5075	02
11 18	3 40 46.6421	1	10 12 3.287	7 3 47.68	4	9004	1288	03
11 18	3 41 2.6422	1	10 13 57.573	6 35 1.56	4	9004	1288	04
11 18	6 48 21.2335	1	21 20 5.673	-20 7 58.49	4	9012	1952	05
11 18	6 48 25.2335	1	21 21 51.910	-19 46 59.65	4	9012	1952	06
11 18	11 0 8.1532	1	4 28 50.489	43 46 23.86	4	9001	2639	02
11 18	11 0 20.1532	1	4 38 14.846	43 45 6.34	4	9001	2639	05
11 18	14 19 8.3497	1	23 52 24.738	-37 42 3.50	4	9006	9525	06
11 18	14 19 16.3498	1	23 58 15.568	-37 8 23.20	4	9006	9525	07
11 18	14 46 57.6344	1	4 6 39.432	54 27 26.92	4	9012	1955	03
11 18	14 47 5.6343	1	4 12 23.404	54 32 26.51	4	9012	1955	05
11 18	22 16 22.7819	1	9 54 30.572	40 33 47.96	4	9008	5088	03
11 18	22 16 30.7823	1	9 55 53.323	39 54 7.07	4	9008	5088	04
11 18	22 16 47.0262	10	5 39 22.109	52 29 26.85	4	9006	9532	06
11 18	22 16 55.0267	10	5 46 44.618	52 13 29.35	4	9006	9532	07
11 18	22 32 13.9518	1	10 34 46.645	4 45 40.09	4	9006	9535	05
11 18	22 33 1.9524	1	10 39 25.283	3 24 37.17	4	9006	9535	08
11 19	1 35 9.5494	1	22 0 14.077	-30 43 45.55	4	9010	1635	05
11 19	1 35 17.5495	1	22 4 28.326	-30 18 28.73	4	9010	1635	06
11 19	2 1 54.4010	1	9 34 52.957	27 15 32.78	4	9004	1309	03
11 19	2 2 10.4008	1	9 37 55.744	26 17 1.96	4	9004	1309	05
11 19	9 32 15.3887	1	3 52 56.724	46 32 42.29	4	9010	1643	04
11 19	9 32 47.3926	1	4 15 7.109	46 49 32.81	4	9010	1643	08
11 19	13 17 32.7794	1	7 48 10.826	69 29 34.09	4	9012	1980	02
11 19	13 17 36.7796	1	7 52 12.080	69 9 15.76	4	9012	1980	03
11 19	16 36 22.9412	1	22 20 41.721	-34 2 27.50	4	9008	5103	02
11 19	20 48 27.8316	1	9 32 33.331	43 47 14.63	4	9006	9550	03
11 19	20 48 35.8321	1	9 34 37.001	43 2 32.28	4	9006	9550	04
11 20	0 6 58.2265	1	1 49 37.380	-25 9 22.55	4	9010	1654	04
11 20	0 7 2.3271	1	0 16 29.744	22 21 12.47	4	9009	9557	04
11 20	0 7 10.2274	1	1 57 13.890	-23 46 16.27	4	9010	1654	07
11 20	4 19 25.9913	1	5 26 55.304	31 37 1.90	4	9004	1332	03
11 20	4 19 37.9912	1	5 34 50.827	31 16 19.13	4	9004	1332	06
11 20	8 4 14.7657	1	8 8 33.429	56 46 25.56	4	9010	1663	03
11 20	8 4 30.7661	1	8 19 2.239	55 11 48.92	4	9010	1663	05
11 20	11 49 47.6088	1	10 37 36.591	43 58 24.70	4	9012	2002	02
11 20	11 50 3.6091	1	10 38 30.233	42 48 57.17	4	9012	2002	04
11 20	15 41 27.0869	1	6 7 45.101	35 23 27.90	4	9012	2010	03
11 20	15 41 43.0871	1	6 14 29.583	34 53 44.83	4	9012	2010	07
11 21	14 6 58.4110	1	4 41 48.698	59 44 25.13	4	9012	2020	05
11 21	14 7 10.4110	1	4 53 7.645	59 39 39.68	4	9012	2020	08
11 22	5 8 39.5630	1	4 39 29.374	21 17 19.95	4	9004	1372	04
11 22	5 9 11.5637	1	4 54 36.903	20 43 14.81	4	9004	1372	08

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.	SRS.NO.
1963 11 22	8 53	52.7040		1	9 38 42.832			30 1 55.17			9001	2480	1766
11 22	12 39	3.4976		1	9 44 48.152			54 35 11.79			9012	2040	1840
11 22	12 39	19.4975		1	9 48 40.996			53 0 25.30			9012	2040	1841
11 22	12 47	22.1109		1	6 51 54.184			9 19 27.11			9001	2674	1767
11 22	20 17	16.7818		1	6 50 9.730			6 25 33.65			9005	9241	1745
11 22	23 28	33.8502		1	2 50 .367			32 32 9.06			9009	9603	67
11 23	7 25	56.4405		1	9 36 30.063			40 20 37.10			9010	1705	1921
11 23	7 26	4.4417		1	9 38 18.825			39 37 13.20			9010	1705	1922
11 23	11 11	27.0639		1	5 16 37.453			30 26 50.04			9001	2687	1768
11 23	11 11	43.0642		1	5 26 3.515			29 57 50.55			9001	2687	1769
11 23	14 30	4.1752		1	23 9 3.428			-21 7 39.57			9006	9594	974
11 23	14 30	8.1756		1	23 12 20.429			-20 43 3.97			9006	9594	4821
11 23	22 27	45.6704		1	5 56 .525			37 36 5.10			9006	9601	972
11 23	22 27	53.6709		1	6 1 13.957			37 14 34.70			9006	9601	973
11 24	1 45	54.5105		1	1 59 48.069			-21 4 23.24			9001	2702	1770
11 24	1 46	2.5087		1	2 5 11.988			-20 11 32.49			9001	2702	2507
11 24	13 28	35.1213		1	7 20 17.950			57 56 33.44			9012	2053	1842
11 24	13 28	47.1214		1	7 29 20.345			57 0 17.89			9012	2053	1843
11 24	13 43	41.9169		1	10 48 41.443			4 0 18.42			9012	2054	1844
11 24	13 44	13.9172		1	10 51 21.196			3 2 9.06			9012	2054	1845
11 25	0 17	24.2623		1	22 4 52.180			49 20 10.65			9009	9626	4220
11 25	0 17	28.2624		1	22 8 56.934			50 19 40.96			9009	9626	3624
11 26	3 2	17.0679		1	8 17 27.431			18 6 59.94			9004	1387	1149
11 26	3 2	25.0677		1	8 20 20.150			17 36 39.63			9004	1387	1150
11 26	10 32	46.9038		1	6 37 1.973			26 47 43.56			9001	2730	1772
11 26	10 33	18.9037		1	6 54 22.330			24 52 59.95			9001	2730	1773
11 26	18 3	12.5402		1	6 44 9.162			19 58 25.30			9005	9270	1746
11 26	18 3	20.5398		1	6 48 17.914			19 31 42.09			9005	9270	1747
11 26	22 4	8.6787		1	10 32 38.378			-8 29 35.07			9006	9627	1651
11 26	22 4	40.6790		1	10 35 32.510			-9 11 49.29			9006	9627	1652
11 27	4 45	28.0621		1	21 57 28.511			-30 47 12.52			9012	2057	1846
11 27	4 45	36.0622		1	22 1 42.591			-30 17 32.94			9012	2057	1847
11 27	4 52	4.7610		1	3 5 12.557			17 24 37.79			9012	2059	1848
11 27	4 52	10.7610		1	3 9 47.860			17 58 22.06			9012	2059	1849
11 27	12 50	12.1304		1	9 9 24.245			44 41 22.63			9012	2068	1850
11 27	12 50	28.1302		1	9 14 19.130			43 9 35.94			9012	2068	1851
11 27	20 20	59.1216		1	9 50 10.100			21 37 27.82			9006	9655	1653
11 27	20 21	15.1215		1	9 52 28.517			20 37 4.95			9006	9655	1654
11 28	11 22	8.3777		1	5 28 31.210			17 9 2.60			9001	2777	1774
11 28	11 22	16.3777		1	5 32 8.199			16 51 17.42			9001	2777	1775
11 28	18 52	47.0843		1	5 44 4.355			11 37 23.79			9005	9315	1748
11 28	22 38	34.8638		1	5 59 16.427			21 59 14.55			9006	9683	1655
11 28	22 38	58.8646		1	6 10 48.816			20 50 36.39			9006	9683	1656
11 29	1 52	12.5931		1	22 29 33.843			-31 13 44.08			9001	2787	2509
11 29	1 52	20.5936		1	22 34 5.030			-30 50 46.08			9001	2787	1786

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.	NRS.NO.
1963 11 29	5 41 22.6941	1	0 16 56.495	43 56 9.24	4	9012	2087	04 1852
11 29	5 41 30.6941	1	0 30 54.051	45 32 5.17	4	9012	2087	08 1853
11 29	9 54 8.0293	1	7 55 7.487	18 37 48.25	4	9001	2795	03 1787
11 29	9 54 24.0291	1	8 1 25.141	17 32 4.69	4	9001	2795	05 1788
11 29	13 39 43.8569	1	7 2 34.786	41 42 51.74	4	9012	2094	04 1854
11 29	13 39 55.8570	1	7 9 21.611	40 50 26.46	4	9012	2094	07 1855
11 29	21 10 36.3862	1	8 44 24.753	20 36 17.63	4	9006	9702	03 1657
11 29	21 10 44.3863	1	8 46 47.866	20 1 6.44	4	9006	9702	04 1658
11 30	4 41 9.8993	1	5 54 52.760	6 19 40.32	4	9004	1422	04 2198
11 30	4 41 33.8993	1	6 4 10.008	5 24 44.58	4	9004	1422	07 1152
11 30	12 11 38.0132	1	9 56 32.680	30 53 21.90	4	9012	2110	03 1868
11 30	12 11 50.0133	1	9 58 16.642	29 57 11.08	4	9012	2110	06 2515
11 30	19 15 2.5451	1	1 38 9.247	-11 59 42.01	4	9004	1434	04 4219
12 1	14 1 45.7036	1	0 23 34.551	20 26 31.53	4	9006	9740	05 4104
12 1	14 1 49.7037	1	0 29 39.969	21 19 37.20	4	9006	9740	07 4105
12 1	21 59 57.4223	1	7 7 53.449	15 36 11.19	4	9006	9747	04 4106
12 1	22 0 5.4224	1	7 11 18.132	15 6 27.32	4	9006	9747	06 4107
12 2	1 11 25.6539	1	22 38 38.793	-31 32 19.85	4	9001	2827	03 3861
12 2	1 11 33.6530	1	22 43 2.229	-31 8 37.91	4	9001	2827	04 3862
12 2	4 55 18.4321	1	20 39 .393	-15 43 26.93	4	9012	2137	01 1723
12 2	4 55 38.4321	1	20 46 3.047	-14 10 21.89	4	9012	2137	06 1724
12 2	5 2 26.1595	1	3 13 24.080	44 1 57.41	4	9012	2138	07 1725
12 2	13 1 14.2671	1	8 31 3.449	31 13 25.99	4	9012	2144	04 1726
12 2	20 32 26.7671	1	9 33 2.094	9 17 57.49	4	9006	9762	04 4108
12 2	20 32 42.7674	1	9 35 39.471	8 27 31.15	4	9006	9762	06 4109
12 2	23 49 10.6909	1	0 3 16.874	80 16 15.13	4	9009	9697	03 4297
12 2	23 49 14.6907	1	0 19 56.951	80 36 1.39	4	9009	9697	05 4298
12 3	14 50 56.4137	1	20 53 53.303	21 0 1.47	4	9006	9778	01 4110
12 4	2 2 24.0641	1	21 29 2.069	-17 38 17.66	4	9001	2869	03 3863
12 4	2 2 32.0645	10	21 32 38.376	-17 8 21.48	4	9001	2869	04 3864
12 4	2 6 36.0928	10	1 9 54.673	13 55 32.31	4	9001	2870	03 3865
12 4	2 6 38.0930	1	1 12 47.901	14 16 10.47	4	9001	2870	04 3866
12 4	5 46 59.6038	1	19 51 5.914	6 31 27.11	4	9012	2177	02 1727
12 4	5 47 15.6038	1	19 53 47.395	8 21 47.77	4	9012	2177	06 1728
12 4	5 51 50.9680	1	21 54 50.037	65 43 37.17	4	9012	2178	03 1729
12 4	5 51 56.9672	1	22 4 3.593	67 13 52.51	4	9012	2178	06 1730
12 4	13 22 39.5466	1	2 50 39.794	26 49 45.69	4	9006	9789	01 4111
12 4	13 22 47.5466	1	3 0 48.382	27 27 22.16	4	9006	9789	05 4112
12 5	4 52 21.0293	1	6 6 57.062	- 4 31 12.11	4	9004	1448	02 4147
12 5	4 52 29.0293	1	6 9 22.331	- 4 48 9.80	4	9004	1448	03 4148
12 5	8 37 46.2395	1	7 14 21.054	8 19 3.68	4	9010	1796	02 4011
12 5	8 38 10.2401	1	7 23 3.198	6 55 50.47	4	9010	1796	05 4012
12 5	23 39 10.1490	1	7 29 30.901	1 59 9.57	4	9008	5260	04 3877
12 5	23 39 10.1600	1	5 36 13.832	1 38 35.51	4	9006	9805	01 4113
12 5	23 39 26.1493	1	7 34 50.775	1 9 19.50	4	9008	5260	06 3878

DATE			TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	CRS. NO.	
Y	M	D	H	M	S	MS	H	M	S	D	M	S				
1963	12	5	23	39	26.1608	1	5	40	43.432	1	4	49.28	9006	9805	02	4114
	12	6	2	55	57.2513	1	21	35	51.638	21	45	28.20	9001	2890	07	3867
	12	6	14	11	59.8702	1	22	33	40.771	46	24	48.21	9006	9813	01	4115
	12	6	14	12	3.8704	1	22	39	31.766	47	36	7.63	9006	9813	02	5376
	12	6	22	11	40.3666	1	7	8	25.710	- 1	28	47.17	9006	9816	03	7172
	12	6	22	12	12.3675	1	7	18	36.530	- 2	58	41.74	9006	9816	07	7173
	12	7	1	27	30.5491	1	3	7	28.894	19	23	55.53	9001	2903	01	4794
	12	7	1	27	34.5491	1	3	11	45.076	19	41	23.28	9001	2903	02	1524
	12	7	12	37	52.8971	1	22	33	28.160	-11	8	47.92	9006	9827	02	4796
	12	7	20	14	13.6825	1	21	45	7.864	9	34	54.56	9004	1454	01	4149
	12	7	20	14	17.6824	1	21	47	32.704	10	11	49.23	9004	1454	02	4797
	12	8	15	0	34.3471	1	3	8	2.240	39	17	26.28	9008	5399	01	4805
12	8	15	0	59.3589	1	20	10	19.454	28	26	46.21	9006	9844	04	3873	
12	8	15	1	3.3588	1	20	10	48.431	29	7	20.77	9006	9844	05	3874	
12	8	23	1	22.3070	1	6	20	1.005	- 6	10	27.55	9006	9849	02	3875	
12	8	23	1	30.3072	1	6	22	14.311	- 6	29	19.10	9006	9849	03	3876	
12	9	2	13	19.7714	1	20	53	27.146	1	26	41.06	9001	2926	04	3869	
12	9	2	13	27.7716	1	20	56	23.419	2	19	7.34	9001	2926	06	3870	
12	9	2	16	45.1518	1	23	46	27.684	41	3	2.50	9001	2927	03	3871	
12	9	2	16	49.1517	1	23	54	1.744	42	0	22.74	9001	2927	05	3872	
12	9	6	31	57.1683	1	9	36	41.204	18	25	36.40	9009	9725	04	4306	
12	9	6	32	5.1684	1	9	38	2.539	17	52	1.79	9009	9725	06	4307	
12	9	9	47	47.9834	1	0	59	32.333	28	40	59.21	9005	9405	09	4004	
12	9	9	47	52.7811	1	1	8	25.176	29	28	23.00	9005	9405	11	4005	
12	9	10	17	2.9649	1	7	32	33.789	-11	17	18.66	9001	2931	03	3675	
12	9	10	17	18.9648	1	7	36	59.838	-11	53	42.40	9001	2931	05	3676	
12	9	14	2	17.9877	1	6	42	29.337	5	3	36.52	9012	2215	02	1731	
12	9	14	2	33.9877	1	6	47	46.822	4	11	38.81	9012	2215	06	1732	
12	10	0	48	50.9585	1	21	12	24.818	63	12	20.56	9010	1844	04	4015	
12	10	8	49	2.1982	1	7	2	8.703	- 6	25	9.89	9010	1850	03	4016	
12	10	8	49	34.2001	1	7	11	36.570	- 7	51	33.97	9010	1850	07	4017	
12	10	12	34	44.0571	1	9	5	55.592	1	14	59.76	9012	2227	04	1733	
12	10	12	35	8.0569	1	9	10	42.587	- 0	1	28.85	9012	2227	07	1734	
12	10	15	45	55.7445	1	20	8	29.459	8	27	39.06	9008	5412	04	4806	
12	10	15	46	3.7453	1	20	10	3.338	9	20	34.86	9008	5412	06	4807	
12	10	23	12	14.8965	1	19	6	3.008	21	28	47.18	9009	9738	01	4301	
12	10	23	12	22.8968	1	19	6	47.640	22	21	34.45	9009	9738	03	4302	
12	11	7	21	36.7172	1	8	9	58.830	13	19	52.12	9009	9743	01	4303	
12	11	7	21	44.7173	1	8	12	16.847	12	46	23.09	9009	9743	03	4304	
12	12	9	38	20.1332	1	6	11	22.883	- 9	6	39.40	9010	1885	02	4018	
12	12	9	38	44.1367	1	6	17	30.419	-10	2	31.50	9010	1885	05	4019	
12	13	0	9	30.4759	1	2	36	36.798	74	28	58.48	9010	1896	02	4013	
12	13	0	9	38.4763	1	3	9	3.242	74	1	28.37	9010	1896	04	4014	
12	13	15	5	27.7091	1	20	17	29.130	9	0	23.16	9008	5441	01	4808	
12	13	15	5	35.7093	1	20	19	40.190	9	57	17.67	9008	5441	03	4809	

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.	R.S. NO.
1963 12 13	15 10	44.5266	3 4 23.867	64 36 35.86	9008	5442	02
12 13	15 10	50.5261	3 20 44.996	64 12 38.93	9008	5442	05
12 14	2 23	41.8205	20 15 17.297	14 59 46.55	9001	2958	05
12 14	2 23	49.8204	20 17 1.628	16 0 12.21	9001	2958	06
12 14	2 27	1.7681	22 0 .027	57 47 2.25	9001	2959	03
12 14	2 27	5.7681	22 6 5.144	58 59 2.93	9001	2959	05
12 14	9 58	18.5692	0 29 49.098	55 14 4.84	9005	9445	20
12 14	9 58	20.9722	0 36 34.734	55 39 32.41	9005	9445	21
12 14	13 43	4.5019	1 30 54.623	77 0 42.81	9006	9901	06
12 14	13 43	6.5020	1 42 2.101	77 4 41.20	9006	9901	07
12 14	14 13	24.7965	6 31 54.443	- 8 12 23.84	9012	2250	03
12 14	14 13	36.7966	6 35 6.671	- 8 44 50.20	9012	2250	06
12 15	0 57	43.0267	3 50 23.358	35 28 4.11	9001	2967	03
12 15	0 57	51.0268	3 58 58.374	35 18 .12	9001	2967	05
12 15	8 27	47.3199	2 54 49.806	23 30 49.20	9005	9460	04
12 15	9 1	33.6852	6 14 5.230	- 2 32 32.10	9009	9771	05
12 16	14 26	41.6752	21 26 24.351	25 58 8.47	9008	5489	01
12 16	14 29	56.6096	19 41 15.079	29 5 28.64	9006	9930	04
12 16	14 30	4.6097	19 41 42.299	30 9 16.99	9006	9930	05
12 16	14 32	5.8839	19 46 41.031	51 12 45.64	9006	9931	06
12 16	14 32	9.8841	19 46 43.999	52 5 12.79	9006	9931	07
12 17	1 43	.3343	20 19 51.945	14 31 16.22	9001	3001	05
12 17	1 43	4.3343	20 20 59.830	15 1 48.00	9001	3001	06
12 17	1 47	51.3230	3 18 40.382	65 36 50.41	9001	3002	01
12 17	1 47	59.3231	3 41 47.798	64 47 55.93	9001	3002	05
12 17	9 18	55.0121	3 56 13.053	49 12 43.90	9005	9488	16
12 17	9 18	57.4134	4 0 34.659	48 59 14.55	9005	9488	17
12 17	12 57	42.2690	20 8 17.676	17 2 55.05	9006	9941	05
12 17	12 57	46.2693	20 9 22.147	17 35 13.31	9006	9941	06
12 17	13 34	59.5648	7 13 30.212	-16 27 21.45	9012	2278	02
12 17	13 35	39.5648	7 23 37.747	-18 6 42.18	9012	2278	07
12 19	13 50	2.6354	19 41 6.137	37 13 32.48	9006	9972	10
12 19	13 53	20.1037	20 43 8.520	83 53 39.66	9006	9973	05
12 19	13 53	36.1051	22 40 50.739	87 57 8.26	9006	9973	09
12 20	1 43	45.6482	7 31 53.648	24 28 45.48	9002	6017	05
12 20	16 7	51.6711	19 33 26.472	33 35 19.74	9008	5549	03
12 20	16 7	59.6708	19 33 43.658	34 39 7.36	9008	5549	05
12 20	19 55	31.0223	21 18 34.587	48 23 20.44	9004	1487	01
12 20	19 55	39.0224	21 25 24.423	50 32 21.00	9004	1487	05
12 20	23 34	33.8999	19 35 56.108	29 45 54.06	9010	1939	09
12 21	7 42	31.7707	6 51 44.428	-12 41 7.09	9009	9795	03
12 21	7 42	39.7707	6 53 48.704	-13 4 48.15	9009	9795	05
12 21	7 56	52.3397	9 20 21.581	1 43 18.87	9011	1930	02
12 21	14 42	24.1189	19 31 17.098	51 56 .92	9006	3	06
12 21	14 42	32.1192	19 30 31.306	53 24 42.84	9006	3	08

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.	SRS.NO.
1963 12 22	13 9	1	19 45 10.346	38 46 29.53	4	9006	17	3842
12 23	0 30	1	15 23 17.909	84 42 33.89	4	9010	1560	4020
12 23	0 30	1	14 44 6.296	85 0 38.88	4	9010	1560	4021
12 24	14 0	1	19 23 22.905	40 23 20.44	4	9006	47	4206
12 24	14 0	1	19 23 27.684	41 33 11.16	4	9006	47	4207
12 24	14 3	1	18 36 19.167	78 22 57.75	4	9006	48	7174
12 24	14 3	1	18 29 31.296	79 19 54.67	4	9006	48	4209
12 26	0 23	1	7 57 44.931	23 57 57.16	4	9002	6098	4164
12 27	2 4	1	19 39 17.778	37 6 12.70	4	9001	3127	4158
12 27	2 7	1	20 45 55.439	80 57 42.93	4	9001	3128	4159
12 27	2 7	1	21 0 53.430	82 39 42.70	4	9001	3128	4160
12 27	6 25	1	8 41 40.572	10 56 26.96	4	9007	1705	4799
12 27	6 25	1	8 43 18.991	10 26 27.88	4	9007	1705	4800
12 27	13 20	1	19 18 48.970	46 46 24.42	4	9006	87	4165
12 27	13 24	1	8 4 14.020	73 14 26.78	4	9006	88	4166
12 27	13 24	1	8 2 47.444	71 25 22.52	4	9006	88	4167
12 28	1 11	1	6 50 53.539	19 17 37.85	4	9002	6130	4102
12 28	1 12	1	6 54 12.488	18 33 52.08	4	9002	6130	4103
12 29	14 13	1	18 53 24.270	72 20 16.57	4	9006	116	4168
12 29	14 13	1	18 50 16.513	73 13 6.47	4	9006	116	4169
12 30	1 24	1	19 41 24.487	43 24 15.23	4	9001	3174	4161
12 30	1 24	1	19 44 33.814	46 15 50.52	4	9001	3174	4162
12 30	20 16	1	21 7 5.437	50 15 49.93	4	9004	1574	4153
12 30	20 16	1	21 9 42.283	51 5 51.10	4	9004	1574	4154
12 31	18 43	1	20 22 20.500	40 11 34.15	4	9004	1588	4155
12 31	18 43	1	20 25 50.512	41 38 40.25	4	9004	1588	4156
12 31	18 48	1	6 37 17.275	43 25 20.67	4	9004	1589	4157

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.	OBS. NO.
1963 10 2	11 12 48.8024	1	21 7 19.196	-20 4 44.97	9003	6209	03
10 4	10 53 28.1977	1	21 54 53.840	17 18 36.68	9003	6259	09
10 4	17 41 33.4518	1	23 6 10.184	- 0 15 9.35	9002	4978	03
10 4	17 41 45.4520	1	23 11 5.717	1 43 27.48	9002	4978	06
10 5	17 31 22.2511	1	22 55 54.663	11 15 50.41	9002	5006	02
10 5	17 31 46.2516	1	23 5 17.576	14 18 51.75	9002	5006	08
10 5	19 13 41.6708	1	18 2 43.743	10 35 1.39	9002	5012	04
10 5	19 13 49.6709	1	18 6 .769	11 36 4.73	9002	5012	05
10 6	19 0 32.8369	1	17 0 4.548	- 1 21 57.53	9002	5036	03
10 6	19 4 9.4256	1	18 20 42.867	23 28 39.18	9002	5037	04
10 7	0 4 29.5250	1	17 40 3.665	- 2 38 14.96	9011	851	03
10 7	0 4 49.5249	1	17 52 36.555	0 5 29.64	9011	851	08
10 7	18 52 56.7805	10	17 58 5.332	23 16 49.64	9002	5066	03
10 8	16 58 24.5220	10	21 24 14.795	23 43 56.68	9002	5088	16
10 8	16 58 48.5217	10	21 36 9.498	26 20 25.07	9002	5088	22
10 9	23 31 11.9520	1	16 42 11.783	4 50 9.65	9011	915	02
10 9	23 31 35.9522	1	16 53 53.796	7 38 38.63	9011	915	08
10 10	12 11 36.2254	1	3 42 28.733	69 51 11.83	9001	2051	04
10 11	5 12 47.1316	1	7 22 17.432	0 30 47.95	9004	882	04
10 11	5 12 49.1315	1	7 26 11.815	- 0 21 46.10	9004	882	05
10 12	1 5 25.0434	1	20 27 34.504	-39 22 23.39	9010	1193	01
10 12	1 6 13.0490	1	20 56 18.873	-35 21 34.95	9010	1193	07
10 12	1 37 58.1534	1	1 28 32.001	40 50 34.56	9008	4544	01
10 12	1 38 .1534	1	1 32 9.108	40 46 18.79	9008	4544	02
10 12	15 16 41.8662	1	11 6 40.370	64 25 54.65	9012	1542	03
10 12	19 50 27.5832	1	21 54 31.177	-36 10 57.19	9004	896	01
10 12	19 50 35.5832	1	21 58 59.338	-35 33 25.57	9004	896	02
10 12	23 9 .3576	1	21 39 42.936	-27 30 32.77	9009	9223	04
10 12	23 9 4.3570	1	21 42 23.289	-26 46 20.95	9009	9223	06
10 13	2 37 58.4271	1	20 57 4.149	-36 2 5.62	9001	2085	07
10 13	4 51 47.8431	1	6 55 38.247	-25 54 3.00	9004	912	01
10 13	4 51 49.8431	1	6 58 23.726	-26 13 14.75	9004	912	02
10 13	5 59 59.1953	1	18 59 14.946	-25 55 36.45	9012	1544	02
10 13	6 0 7.1951	1	19 3 15.730	-25 0 51.73	9012	1544	06
10 13	11 40 33.5732	1	6 26 12.209	-15 22 55.16	9001	2100	04
10 13	15 6 28.6808	1	10 8 27.405	43 21 58.67	9012	1560	03
10 13	15 6 29.6810	1	10 8 54.678	42 43 53.17	9012	1560	04
10 13	16 14 32.9163	1	19 36 18.401	-29 2 47.96	9008	4560	02
10 13	16 14 48.9164	1	19 44 22.185	-27 40 52.74	9008	4560	06
10 13	19 39 40.5708	1	21 35 51.749	-33 28 45.43	9004	920	05
10 13	19 39 44.5708	1	21 38 11.167	-33 9 8.00	9004	920	06
10 13	23 36 26.5370	1	5 2 9.163	-25 16 1.97	9006	8927	02
10 14	0 44 22.7043	1	19 54 59.762	-27 22 .94	9010	1220	08
10 14	0 44 26.7043	1	19 57 21.671	-26 56 19.91	9010	1220	09
10 14	2 27 9.5031	1	20 33 33.573	-32 34 33.43	9001	2109	07

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.	OBS.NO.
1963 10 14	5 49	52.7479		1	18 53	2.382		-13 29	8.00	4	9012	1565	02 3182
10 14	5 50	.7479		1	18 57	15.052		-12 11	5.56	4	9012	1565	06 3183
10 14	14 22	12.8112		1	19 13	55.843		-19 48	55.60	4	9006	8932	01 4530
10 14	14 22	20.8114		1	19 17	49.947		-18 55	47.12	4	9006	8932	03 4531
10 14	14 55	36.5905		1	8 56	24.501		40 5	22.72	4	9012	1579	03 3184
10 14	14 55	42.5909		1	9 3	50.882		35 34	.46	4	9012	1579	06 3185
10 14	16 4	2.0476		1	19 20	11.907		-22 23	9.20	4	9008	4582	05 5655
10 14	19 29	20.4936		1	21 33	50.893		-27 56	37.21	4	9004	940	04 3357
10 14	19 29	28.4934		1	21 38	57.362		-27 9	57.55	4	9004	940	06 3358
10 14	23 26	25.2616		1	5 43	15.226		-41 11	41.40	4	9006	8944	04 4532
10 14	23 26	31.2611		1	5 52	21.365		-42 9	43.87	4	9006	8944	07 4533
10 15	2 17	6.2063		1	20 38	21.584		-24 3	8.17	4	9001	2126	03 4515
10 15	2 17	22.2067		1	20 49	13.979		-22 12	2.41	4	9001	2126	07 6111
10 15	5 39	44.3968		1	18 45	51.100		1 52	4.69	4	9012	1585	02 3186
10 15	5 39	52.3968		1	18 50	23.885		3 37	55.87	4	9012	1585	06 3719
9 15	14 40	48.5948		1	7 14	34.238		-35 41	10.48	4	9012	1302	07 3513
9 15	14 40	52.5949		1	7 18	23.309		-34 39	40.92	4	9012	1302	09 3514
10 16	5 28	54.1918		1	18 15	48.934		9 30	27.31	4	9012	1602	02 3188
10 16	15 43	5.7347		1	18 50	25.949		- 4	50 29.51	4	9008	4622	05 5656
10 16	17 29	47.8938		1	16 57	34.569		25 49	2.95	4	9008	4625	04 5657
10 16	17 29	51.8940		1	16 57	27.205		26 23	39.62	4	9008	4625	05 5658
10 16	19 8	34.2188		1	21 33	30.153		-14 1	27.13	4	9004	986	02 3359
10 16	19 8	42.2187		1	21 39	48.335		-12 56	18.80	4	9004	986	04 3360
10 16	20 53	11.6213		1	18 0	58.808		7 5	.46	4	9004	989	01 3361
10 17	1 59	34.5711		1	16 41	27.692		31 36	38.02	4	9010	1250	05 4707
10 17	1 59	46.5719		1	16 40	48.796		33 31	22.65	4	9010	1250	08 4708
10 17	5 18	20.9288		1	17 54	12.958		20 36	58.36	4	9012	1611	03 3189
10 17	5 18	30.9288		1	17 59	4.702		23 6	47.01	4	9012	1611	08 3190
10 17	13 50	57.9324		1	18 32	19.317		11 35	34.04	4	9006	8955	03 4534
10 17	13 51	5.9324		1	18 36	46.193		13 23	18.41	4	9006	8955	05 6116
10 17	15 33	1.1745		1	18 49	3.557		10 58	49.32	4	9008	4639	02 5591
10 17	17 18	57.2866		1	16 40	15.681		28 20	16.63	4	9008	4644	02 5659
10 17	17 19	13.2870		1	16 39	22.294		30 36	55.67	4	9008	4644	06 5660
10 17	18 58	2.8971		1	21 31	19.955		- 6 8	18.69	4	9004	1005	04 3362
10 17	18 58	10.8969		1	21 38	19.619		- 4 54	33.06	4	9004	1005	06 3363
10 17	20 42	19.9929		1	17 40	55.415		11 6	9.60	4	9004	1009	01 3364
10 17	20 42	35.9928		1	17 43	44.434		13 26	40.98	4	9004	1009	05 3365
10 18	1 48	53.7304		1	16 22	20.075		35 29	13.04	4	9010	1264	07 4711
10 18	1 49	5.7304		1	16 21	14.862		37 21	49.60	4	9010	1264	10 4712
10 18	5 7	31.0506		1	17 24	50.765		26 59	35.26	4	9012	1623	02 3191
10 18	5 7	39.0506		1	17 28	7.632		28 56	21.48	4	9012	1623	06 3192
10 18	13 40	21.0641		1	18 11	26.831		21 36	54.51	4	9006	8969	04 6117
10 18	13 40	27.0643		1	18 14	43.112		23 5	53.96	4	9006	8969	07 4537
10 18	15 22	20.6810		1	18 26	39.090		20 34	23.34	4	9008	4659	03 5661
10 18	15 27	54.4528		1	16 7	26.282		46 6	13.39	4	9006	8972	06 6118

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.	OBS. NO.
1963 10 18	15 27	58.4529	16 6 25.855	46 45 3.99	9006	8972	07
10 18	17 9	9.3070	16 16 54.287	39 49 1.76	9008	4663	04
10 18	17 9	13.3072	16 16 17.628	40 26 43.03	9008	4663	05
10 18	23 51	22.0292	18 16 39.674	18 29 41.42	9010	1268	07
10 18	23 51	26.0302	18 19 9.560	19 28 40.77	9010	1268	09
10 19	13 30	15.1975	18 8 12.529	39 45 43.05	9006	8987	04
10 19	13 30	19.1977	18 10 57.254	40 52 20.64	9006	8987	06
10 19	15 17	29.8182	15 40 57.333	51 40 31.55	9006	8991	01
10 19	15 17	45.8185	15 34 35.907	54 13 10.38	9006	8991	05
10 19	16 59	3.3022	15 49 11.558	48 38 13.27	9008	4684	04
10 19	18 39	51.6538	0 43 42.209	31 11 29.77	9004	1023	02
10 19	18 39	55.6539	0 47 18.897	31 18 39.91	9004	1023	03
10 19	20 21	24.2052	17 8 12.995	26 17 51.48	9004	1028	02
10 19	20 21	32.2052	17 9 16.823	27 46 19.75	9004	1028	04
10 20	9 57	10.0629	17 38 1.888	32 25 31.19	9005	9030	13
10 20	9 57	22.0629	17 43 3.661	35 23 26.42	9005	9030	16
10 20	13 19	2.2917	17 24 52.533	39 18 35.51	9006	9008	05
10 20	13 19	11.8186	17 29 36.552	41 49 1.48	9006	9008	07
10 20	15 7	4.2068	15 11 5.493	56 41 18.27	9006	9013	05
10 20	15 7	8.2068	15 15 58.312	57 17 40.54	9006	9013	06
10 20	20 11	12.3072	16 52 11.048	37 30 48.50	9004	1050	03
10 20	20 11	24.3074	16 53 25.061	40 6 30.98	9004	1050	06
10 21	2 59	32.7150	15 57 49.713	43 28 40.22	9001	2198	07
10 21	2 59	40.7149	15 56 43.436	44 54 34.89	9001	2198	09
10 21	13 8	.6267	16 51 18.747	41 22 37.73	9006	9025	08
10 21	13 8	16.6269	16 57 24.593	45 24 20.07	9006	9025	12
10 21	16 38	43.0080	14 27 57.595	63 24 48.49	9008	4722	05
10 21	20 0	19.4896	16 31 4.580	40 21 1.24	9004	1071	02
10 21	20 0	23.4895	16 31 18.030	41 10 54.29	9004	1071	03
10 22	2 49	13.6436	15 31 51.808	51 11 43.98	9001	2218	06
10 22	2 49	21.6438	15 29 42.006	52 39 13.58	9001	2218	08
10 22	19 49	48.8113	16 10 37.880	47 33 10.67	9004	1094	02
10 22	19 49	52.8113	16 10 35.183	48 25 8.57	9004	1094	03
10 23	2 39	10.7120	14 51 11.054	61 25 48.37	9001	2232	05
10 23	2 39	26.7123	14 40 31.609	64 17 39.09	9001	2232	09
10 23	9 25	8.1646	16 32 40.592	52 50 41.73	9005	9046	03
10 23	9 25	12.1644	16 33 48.243	53 52 9.38	9005	9046	04
10 24	2 28	31.8750	14 19 49.296	64 39 52.95	9001	2250	05
10 24	2 28	39.8751	14 13 4.189	66 0 8.26	9001	2250	07
10 24	9 14	18.6567	16 6 41.885	56 25 50.04	9005	9060	09
10 24	9 14	30.6566	16 8 56.862	59 25 25.07	9005	9060	12
10 26	2 6	7.2870	14 4 58.181	60 11 39.45	9001	2273	03
10 26	2 6	23.2871	13 55 15.219	62 39 41.63	9001	2273	07
10 26	7 51	48.1755	8 54 19.020	3 25 27.00	9011	1115	05
10 26	7 51	54.1754	9 4 2.848	1 21 29.40	9011	1115	08

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.	OBS.NO.
1963 10 27	1 56	2.0768	13 7 25.923	68 7 24.37	4	9001	2295	03 5025
10 27	1 56	10.0769	12 58 1.107	69 12 59.13	4	9001	2295	05 4528
10 27	17 53	46.8619	10 11 19.463	-16 34 44.33	4	9003	6684	04 5785
10 29	7 19	51.3238	9 42 3.621	-39 56 31.05	4	9011	1152	02 5595
10 29	7 20	9.3231	10 17 56.008	-40 46 59.87	4	9011	1152	11 7032
11 3	9 14	22.6617	8 47 24.059	82 49 47.10	4	9005	9106	04 631
11 3	9 14	26.6615	8 20 36.069	82 46 18.17	4	9005	9106	05 632
11 3	14 22	41.9563	14 10 31.192	69 31 59.76	4	9006	9223	03 125
11 4	2 16	30.8763	13 36 21.574	75 40 34.39	4	9001	2398	04 3907
11 4	2 16	34.8761	13 32 30.530	76 19 3.32	4	9001	2398	05 3908
11 5	2 5	20.2919	14 4 44.713	73 47 42.59	4	9001	2419	05 3909
11 5	2 5	28.2920	14 1 58.174	75 6 17.39	4	9001	2419	07 3910
11 5	15 43	26.1203	14 25 48.048	76 51 6.98	4	9008	4900	07 2918
11 5	15 43	30.1204	14 25 .475	77 30 .44	4	9008	4900	08 2919
11 6	1 54	41.1879	14 28 21.849	76 47 4.92	4	9001	2444	05 6721
11 6	1 54	49.1880	14 29 7.196	78 12 26.29	4	9001	2444	07 3911
11 7	13 40	6.7724	16 20 5.529	77 33 9.40	4	9006	9304	03 126
11 7	13 40	18.7730	16 46 19.363	79 20 12.61	4	9006	9304	06 127
11 7	18 44	31.8838	18 57 11.445	76 23 31.96	4	9004	1218	05 566
11 7	20 29	17.3423	17 50 5.397	24 59 34.12	4	9004	1223	03 567
11 7	20 29	21.3423	17 52 30.451	24 49 10.55	4	9004	1223	04 568
11 7	23 52	49.5768	3 48 11.929	83 22 19.11	4	9010	1513	03 1700
11 7	23 52	53.5768	3 39 39.701	82 37 30.38	4	9010	1513	04 1701
11 8	5 0	32.0732	4 20 42.649	73 56 21.66	4	9012	1825	02 636
11 8	5 0	44.0732	4 10 36.044	72 1 48.42	4	9012	1825	08 637
11 8	18 33	32.9374	18 58 24.870	72 15 46.45	4	9004	1236	07 569
11 8	18 33	34.9375	19 5 19.341	72 17 56.41	4	9004	1236	08 570
11 8	23 41	48.0952	1 45 12.236	84 53 43.80	4	9010	1537	05 1702
11 9	1 22	55.3296	19 47 4.708	79 17 31.03	4	9001	2481	05 3912
11 9	1 22	59.3299	20 7 51.168	79 12 22.36	4	9001	2481	07 3913
11 9	3 8	3.0079	18 1 45.443	23 15 52.08	4	9001	2485	04 3914
11 9	3 8	7.0078	18 4 8.734	22 59 44.16	4	9001	2485	05 5608
11 9	13 18	49.2441	18 50 19.769	73 45 51.54	4	9006	9356	06 128
11 9	13 18	57.2445	19 16 13.963	73 57 10.67	4	9006	9356	08 129
11 9	15 4	11.4454	18 18 23.025	16 26 13.66	4	9006	9363	09 130
11 9	16 45	59.1801	18 13 54.195	17 48 1.33	4	9008	4947	03 2920
11 9	16 46	3.1797	18 15 57.872	17 27 27.76	4	9008	4947	04 2921
11 10	1 12	44.9570	22 12 3.057	69 20 43.41	4	9001	2489	03 3916
11 10	1 12	52.9569	22 31 6.725	67 41 59.83	4	9001	2489	07 5609
11 10	2 57	18.1216	18 6 3.680	18 15 14.60	4	9001	2496	07 3918
11 10	2 57	38.1214	18 17 52.061	16 27 38.59	4	9001	2496	12 3919
11 10	14 54	40.1838	18 56 40.315	2 44 1.13	4	9006	9385	08 131
11 10	14 54	44.1839	18 58 49.366	2 10 55.84	4	9006	9385	09 132
11 10	23 25	6.8213	1 27 1.477	73 35 3.15	4	9009	9490	09 1698
11 10	23 25	8.8209	1 28 43.357	73 13 32.10	4	9009	9490	10 1699

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.	OBS.NO.
1963 11 11	1 4 57.9695	1	0 41 16.771	13 52 55.06	4	9001	2516	05
11 11	1 5 1.9694	1	0 42 54.567	13 0 38.89	4	9001	2516	06
11 11	14 44 19.1654	1	19 6 28.736	- 6 10 5.69	4	9006	9414	04
11 11	14 44 31.1652	1	19 12 43.107	- 7 58 6.54	4	9006	9414	07
11 11	19 47 15.7943	1	18 41 .078	0 23 20.66	4	9004	1250	04
11 11	19 47 27.7939	1	18 48 18.026	- 1 8 59.07	4	9004	1250	07
11 12	6 2 59.2837	1	18 36 12.841	20 15 59.37	4	9012	1863	03
11 12	6 3 7.2836	1	18 41 13.521	19 11 19.28	4	9012	1863	07
11 12	12 46 48.0565	1	20 6 25.724	51 3 59.23	4	9006	9428	05
11 12	12 46 56.0566	1	20 20 26.234	49 48 32.95	4	9006	9428	09
11 12	14 33 24.6345	1	18 57 24.143	- 9 46 44.33	4	9006	9434	04
11 13	2 26 15.6894	1	18 48 8.726	- 6 43 39.10	4	9001	2563	06
11 13	2 26 23.6895	1	18 52 33.356	- 7 52 11.20	4	9001	2563	08
11 13	5 53 19.9506	1	19 13 26.840	0 46 29.71	4	9012	1875	03
11 13	5 53 29.9506	1	19 19 58.969	- 1 17 49.44	4	9012	1875	08
11 13	16 4 .1902	1	18 38 24.333	- 9 42 40.80	4	9008	5000	04
11 13	16 4 4.1902	1	18 40 11.386	-10 14 57.21	4	9008	5000	05
11 14	0 34 35.4746	1	18 48 6.088	- 7 34 36.50	4	9010	1573	05
11 14	0 34 39.4746	1	18 50 16.038	- 8 13 40.15	4	9010	1573	06
11 14	5 42 30.6098	1	19 2 56.199	- 6 8 2.34	4	9012	1896	04
11 14	5 42 38.6097	1	19 7 35.713	- 7 43 57.60	4	9012	1896	08
11 16	10 39 9.6998	1	0 30 9.888	37 44 36.80	4	9003	7062	07
11 17	5 8 48.4588	1	17 58 43.366	- 9 45 12.31	4	9012	1936	03
11 17	5 8 58.4586	1	18 2 38.186	-11 16 1.50	4	9012	1936	08
11 17	10 27 2.7488	1	22 50 6.208	41 53 12.10	4	9003	7088	05
11 17	10 27 6.7488	1	22 53 27.847	41 35 6.70	4	9003	7088	06
11 18	12 3 41.0447	1	19 28 10.332	-23 5 15.43	4	9003	7121	04
11 18	17 28 46.1850	1	15 4 56.305	-68 48 35.81	4	9003	7137	07
11 18	17 28 52.1848	1	14 47 55.484	-67 36 5.90	4	9003	7137	10
11 19	11 53 39.5712	1	18 50 24.828	-40 35 21.78	4	9003	7149	03
11 21	11 31 58.1909	1	17 59 37.128	-46 2 47.91	4	9003	7184	03
11 21	15 33 26.3924	1	12 43 46.147	-14 31 11.12	4	9012	2029	07
11 21	15 33 30.3926	1	12 46 5.425	-13 41 29.93	4	9012	2029	09
11 22	15 21 38.9683	1	11 51 57.670	-21 34 19.25	4	9012	2046	03
11 22	15 21 42.9682	1	11 54 52.265	-20 38 21.75	4	9012	2046	05
11 22	23 55 12.0362	10	12 27 12.427	-11 46 59.33	4	9006	9586	03
11 22	23 55 32.0357	10	12 40 52.403	- 8 6 25.66	4	9006	9586	08
11 23	11 49 22.4019	1	12 35 28.470	-17 47 31.16	4	9001	2691	04
11 23	11 49 26.4020	1	12 37 34.038	-17 12 55.27	4	9001	2691	05
11 23	23 44 18.4879	10	12 15 39.260	- 6 35 54.15	4	9006	9606	03
11 23	23 44 38.4881	10	12 30 51.564	- 2 41 43.13	4	9006	9606	08
11 24	11 38 26.5026	1	12 24 42.585	-14 48 58.36	4	9001	2718	05
11 24	11 38 34.5025	1	12 29 16.756	-13 35 27.19	4	9001	2718	07
11 26	4 29 6.8063	1	12 26 40.902	-10 15 2.65	4	9004	1390	08
11 26	19 50 35.1318	1	12 22 47.205	24 40 17.39	4	9005	9278	23

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.	OBS.NO.
1963 11 26	19	50	37.1317	1	12 25 12.779			24 57 39.83			9005	9278	24
11 26	23	11	39.3226	1	11 47 1.695			15 30 36.47			9006	9633	04
11 26	23	11	41.3226	1	11 49 13.033			15 55 22.58			9006	9633	05
11 27	12	48	55.1130	1	6 7 19.678			10 18 6.90			9001	2761	07
11 27	12	48	59.1129	1	6 8 34.624			11 8 5.30			9001	2761	08
11 27	14	28	46.6460	1	12 9 37.823			42 22 4.10			9012	2073	04
11 27	14	28	50.6460	1	12 14 19.825			42 43 46.94			9012	2073	06
11 27	23	0	45.1276	1	11 38 37.635			24 43 9.41			9006	9661	03
11 27	23	0	47.1277	1	11 41 7.963			25 5 39.36			9006	9661	04
11 28	10	55	28.7230	1	12 24 32.862			10 17 20.04			9001	2775	05
11 28	10	55	36.7230	1	12 30 36.982			11 26 39.59			9001	2775	07
11 28	12	41	16.5737	1	7 57 52.369			71 40 39.64			9001	2785	05
11 28	12	41	22.5736	1	8 12 41.970			73 10 39.90			9001	2785	08
11 28	22	50	43.1695	1	12 41 4.851			40 0 17.52			9006	9685	04
11 28	22	50	47.1700	1	12 45 45.339			40 14 47.49			9006	9685	05
11 29	10	45	27.4130	1	13 3 .860			22 8 44.09			9001	2798	07
11 29	10	45	31.4129	1	13 5 48.220			22 29 10.13			9001	2798	08
11 29	22	40	27.0864	1	13 29 33.108			47 25 23.16			9006	9709	08
11 29	22	40	35.0866	1	13 37 20.228			47 19 5.00			9006	9709	10
11 30	5	31	28.0614	1	10 56 1.599			68 49 9.00			9004	1428	08
11 30	12	20	32.7507	1	15 49 13.428			84 8 49.15			9001	2819	05
11 30	12	20	40.7506	1	16 8 51.024			82 30 2.53			9001	2819	07
11 30	19	7	36.6589	1	13 41 8.321			52 15 39.18			9005	9342	04
12 1	0	14	46.4595	1	2 41 44.410			73 12 44.74			9006	9734	07
12 2	0	3	51.0738	1	2 1 10.885			73 1 20.09			9006	9753	07
12 2	0	3	55.0738	1	1 54 12.716			73 37 29.59			9006	9753	08
12 2	23	52	55.7464	1	1 24 14.091			72 42 14.42			9006	9769	04
12 2	23	52	59.7464	1	1 16 48.480			73 13 41.13			9006	9769	05
12 3	4	59	48.4101	1	15 36 32.409			69 57 21.41			9004	1442	07
12 3	4	59	52.4102	1	15 39 46.655			69 11 30.17			9004	1442	08
12 3	11	47	56.1794	1	18 45 8.211			78 35 15.87			9001	2857	03
12 3	11	48	4.1796	1	18 29 45.084			77 18 41.33			9001	2857	05
12 4	11	36	57.1110	1	19 4 52.152			77 18 40.98			9001	2876	03
12 4	11	37	9.1111	1	18 40 45.543			75 36 26.73			9001	2876	06
12 4	12	45	34.4258	1	18 51 .280			-65 45 53.41			9003	7362	03
12 5	6	21	43.3373	1	3 23 7.558			59 15 6.33			9004	1452	04
12 5	6	21	51.3374	1	3 19 15.494			60 41 58.03			9004	1452	06
12 7	12	13	24.8170	1	21 22 17.388			-59 5 22.38			9003	7426	02
12 7	12	13	30.8166	1	21 37 53.571			-59 53 9.70			9003	7426	05
12 8	12	39	48.4080	1	22 1 11.901			74 6 36.19			9001	2924	04
12 8	12	39	56.4082	1	21 41 13.055			73 56 34.81			9001	2924	06
12 9	1	38	59.2078	1	21 16 8.826			-26 14 20.58			9011	1675	01
12 9	12	28	54.2957	1	21 27 4.159			73 52 34.62			9001	2936	02
12 9	12	29	10.2960	1	20 48 53.278			73 8 14.00			9001	2936	06
12 11	11	28	48.3964	1	20 45 30.933			-25 7 22.43			9003	7516	02

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.	Obs. NO.
1963 12 11	11 28 50.3963	1	20 47 34.641	-24 53 49.64	9003	7516 03	3088
12 12	18 43 28.5230	1	17 13 41.725	60 31 56.38	9005	9420 08	3246
12 12	18 43 38.1218	1	17 7 .988	59 0 30.75	9005	9420 10	3247
12 13	0 56 14.7534	1	22 9 46.040	13 34 56.71	9011	1749 02	4196
12 13	11 6 9.4651	1	20 10 32.995	-17 44 38.93	9003	7554 07	3089
12 13	11 9 46.9113	1	0 15 28.911	33 33 27.91	9003	7555 07	3090
12 13	11 9 48.9114	1	0 18 14.289	33 59 56.69	9003	7555 08	3091
12 13	18 33 29.1625	1	16 28 58.232	49 59 51.52	9005	9434 08	3248
12 13	18 33 33.9700	1	16 27 24.398	49 16 33.17	9005	9434 09	3249
12 14	18 23 .0909	1	16 6 28.292	44 10 22.74	9005	9451 09	3250
12 14	18 23 4.9072	1	16 5 23.146	43 28 20.82	9005	9451 10	3613
12 14	23 31 25.4550	1	17 21 39.394	62 29 29.50	9006	9908 04	3232
12 14	23 31 33.4554	1	17 16 10.754	61 10 17.21	9006	9908 06	3233
12 15	6 22 30.6805	1	12 53 21.121	44 10 24.50	9004	1481 01	3103
12 15	11 25 6.7013	1	16 36 1.698	54 6 11.36	9001	2974 06	3053
12 16	23 9 41.4394	1	16 26 43.300	58 6 25.20	9006	9936 03	3230
12 16	23 9 45.4393	1	16 24 50.808	57 20 49.86	9006	9936 04	3231
12 17	12 49 53.2741	1	12 29 16.370	35 17 35.30	9001	3013 04	3608
12 17	12 49 55.2740	1	12 31 30.641	34 43 56.18	9001	3013 05	3055
12 17	19 36 37.5278	1	13 58 35.034	27 49 11.41	9005	9497 04	3251
12 17	19 36 42.3130	1	14 0 32.685	26 39 43.77	9005	9497 05	3614
12 17	22 59 49.9441	1	15 44 57.139	43 29 42.15	9006	9948 07	3228
12 17	22 59 53.9442	1	15 44 21.204	42 44 59.27	9006	9948 08	3229
12 18	10 53 7.9199	1	15 23 3.749	38 12 8.23	9001	3019 04	3056
12 18	10 53 15.9200	1	15 22 5.815	36 48 8.06	9001	3019 06	3057
12 18	12 38 50.7593	1	11 57 38.073	27 56 7.15	9001	3025 05	3058
12 18	12 38 52.7593	1	11 59 53.612	27 23 27.44	9001	3025 06	3059
12 18	19 25 45.9067	1	13 37 5.883	20 22 37.51	9005	9510 03	3612
12 18	22 48 46.8850	1	15 24 11.979	41 54 56.49	9006	9962 02	4201
12 18	22 48 54.8847	1	15 23 19.510	40 20 36.78	9006	9962 04	3108
12 19	0 33 7.4932	1	8 56 48.626	39 16 29.71	9006	9968 02	3109
12 19	0 33 13.4930	1	9 5 23.063	38 30 15.70	9006	9968 05	3110
12 19	10 46 36.1650	1	12 24 8.177	38 24 54.61	9010	1926 04	3080
12 19	10 46 44.1653	1	12 32 27.270	36 3 53.91	9010	1926 08	3081
12 19	12 28 10.6835	1	11 51 2.405	14 20 15.74	9001	3040 02	3060
12 19	12 28 16.6833	1	11 56 48.596	12 52 4.46	9001	3040 05	3061
12 19	15 54 47.8312	1	14 0 42.853	35 40 27.23	9012	2301 02	3217
12 19	15 54 57.8315	1	14 5 48.555	32 58 9.73	9012	2301 07	3218
12 19	19 15 1.2785	10	13 19 16.418	11 19 58.61	9005	9523 08	3242
12 19	19 15 6.0743	1	13 21 23.151	10 23 55.79	9005	9523 09	3611
12 20	0 23 58.4175	1	10 56 52.382	8 12 23.06	9006	9986 02	3111
12 20	0 24 .4176	1	10 58 56.098	7 44 54.26	9006	9986 03	3112
12 20	12 18 19.1648	1	12 19 38.559	- 7 6 23.92	9001	3052 02	3062
12 20	12 18 23.1649	1	12 22 18.237	- 7 44 49.06	9001	3052 03	3063
12 20	15 43 27.2741	1	13 13 34.919	35 22 13.76	9012	2311 01	3219

Y	M	D	TIME (A-I)		RMS °S	R.A. (1950.0)		DECL. (1950.0)		STATION	FRAME NO.	OHS.NO.
			H	M		H	M	D	M			
1963	12	20	15	43	33.2737	1	13	17	48.341	33 38 32.65	2311	04
	12	20	22	28	4.3326	1	14	40	39.550	21 37 8.78	9993	01
	12	20	22	28	12.3328	1	14	40	58.332	20 17 45.85	9993	03
	12	21	0	13	12.1106	1	10	45	26.609	-2 47 11.65	9998	07
	12	21	0	13	14.1105	1	10	47	18.690	-3 11 35.81	9998	08
	12	21	12	7	31.3382	1	12	1	51.777	-15 1 70	3066	04
	12	21	12	7	39.3380	1	12	6	58.311	-16 3 37.93	3066	06
	12	21	15	32	59.3877	1	13	1	23.030	18 50 51.58	2321	02
	12	21	22	17	24.2566	1	14	21	54.823	14 38 36.46	7	04
	12	21	22	17	40.2567	1	14	23	7.980	12 13 14.92	7	08
	12	21	23	59	29.4662	1	14	22	56.264	12 41 32.06	5569	04
	12	21	23	59	33.4657	1	14	23	12.516	12 7 18.34	5569	05
	12	22	5	7	.6952	1	11	21	42.328	-19 36 17.50	1502	01
	12	22	11	56	46.2959	1	11	46	1.458	-22 11 52.73	3079	02
	12	22	11	56	50.2960	1	11	48	30.089	-22 37 47.09	3079	03
	12	22	15	22	24.8737	1	12	45	28.678	3 58 50.57	2330	04
	12	22	15	22	28.8737	1	12	48	.210	3 1 32.12	2330	06
	12	22	20	26	28.0237	1	8	34	14.415	-20 23 29.21	9568	03
	12	22	20	26	32.8372	1	8	36	58.910	-20 56 5.90	9568	04
	12	23	11	45	52.3589	1	11	24	48.634	-27 30 46.57	3093	07
	12	23	11	45	56.3589	1	11	27	16.436	-27 53 15.72	3093	08
	12	23	15	11	26.4235	1	12	14	41.239	-4 47 29.26	2336	01
	12	23	15	11	36.4232	1	12	21	24.970	-6 55 49.76	2336	06
	12	23	23	4	48.3277	1	4	1	31.605	37 3 7.93	9811	06
	12	23	23	41	24.2399	1	10	29	12.719	-30 38 40.60	39	03
	12	23	23	41	36.2394	1	10	37	27.302	-31 57 51.94	39	06
	12	24	1	22	54.8632	1	10	21	29.322	-27 47 43.24	5606	06
	12	24	11	34	52.5651	1	11	0	14.862	-31 40 29.13	3109	04
	12	24	11	35	4.5651	1	11	7	35.668	-32 40 32.83	3109	07
	12	24	15	1	27.2256	1	12	22	28.463	-23 1 48.73	2349	05
	12	24	15	1	31.2257	1	12	24	46.821	-23 34 .36	2349	07
	12	24	23	30	37.0397	1	10	13	34.398	-35 36 53.91	54	03
	12	24	23	30	41.0396	1	10	16	11.883	-36 0 34.21	54	04
	12	26	9	35	37.0525	1	10	4	15.989	-31 19 25.22	9825	04
	12	26	23	8	45.4048	1	9	31	34.188	-42 2 17.23	81	07
	12	27	0	16	36.1337	1	21	1	5.975	8 39 39.90	1982	04
	12	27	0	16	42.1340	1	21	2	34.158	11 4 51.34	1982	07
	12	28	1	48	24.0366	1	22	1	34.034	-4 47 26.66	3145	09
	12	28	1	48	26.0367	1	22	3	5.627	-4 8 39.69	3145	10
	12	28	13	43	22.9429	1	20	1	20.875	22 14 45.88	105	06
	12	28	13	43	26.9443	1	20	0	38.996	23 35 14.50	105	07
	12	29	1	37	16.5558	1	21	16	4.903	1 34 56.27	3159	04
	12	29	2	18	5.4837	1	12	30	51.082	39 48 30.46	6162	09
	12	29	2	18	13.4841	1	12	34	55.654	38 54 14.33	6162	11
	12	29	23	44	28.9475	1	19	8	2.918	45 38 48.84	2014	10

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.	OBS. NO.
1963 12 30	18 27	28.3618	1				
12 31	1 16	25.2616	1	- 2 35 25.50	9004	1568	02 4198
12 31	18 18	53.5382	1	51 10 47.00	9001	3191	07 3079
12 31	18 18	55.5381	1	53 56 37.45	9004	1586	03 4199
				53 31 56.21	9004	1586	04 4200

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 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 analyses 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.