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No. P-16

Material prepared under the supervision of
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November 9, 1967

Smithsonian Institution
Astrophysical Observatory
Cambridge, Massachusetts 02138

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CATALOG OF PRECISELY REDUCED OBSERVATIONS

1. INTRODUCTION

This catalog is the 16th 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 448 observations of Satellite 1959 α1 (Vanguard 2), 969 observations of Satellite 1959 η1 (Vanguard 3), 1046 observations of Satellite 1960 ι2 (Echo 1 Rocket Body), 1023 observations of Satellite 1961 δ1 (Explorer 9), 249 observations of Satellite 1961 ο1 (Transit 4A), 175 observations of Satellite 1961 ο2 (Injun), 1303 observations of Satellite 1961 αδ1 (Midas 4), 613 observations of Satellite 1962 αε1 (Telstar 1), 303 observations of Satellite 1962 βν1 (Al5 Relay), 635 observations of Satellite 1963 13A (Telstar 2), and 561 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 $2^S.292725 + 0.001118458 (t - 38,030.0)$

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 in abbreviation the name of the measurer.

The tenth 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 Kaula ellipsoid, $f = 1/298.25$ and $a = 6.378165$ Mm. The description of the station coordinates and the datum to which they were connected by standard geodetic surveying techniques are given by Veis (1964).

Table 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	-1.535761	-5.167003	3.401046	Organ Pass, New Mexico
9002	5.056134	2.716489	-2.775820	Olifantsfontein, South Africa
9003	-3.983756	3.743107	-3.275598	Woomera, Australia
9004	5.105601	-0.555233	3.769680	San Fernando, Spain
9005	-3.946703	3.366291	3.698849	Tokyo, Japan
9006	1.018207	5.471109	3.109619	Naini Tal, India
9007	1.942772	-5.804087	-1.796964	Arequipa, Peru
9008	3.376887	4.403992	3.136259	Shiraz, Iran
9009	2.251824	-5.816924	1.327166	Curaçao, Netherlands Antilles
9010	0.976284	-5.601398	2.880247	Jupiter, Florida
9011	2.280579	-4.914577	-3.355462	Villa Dolores, Argentina
9012	-5.466064	-2.404279	2.242174	Maui, Hawaii
9023	-3.977744	3.725121	-3.303065	Island Lagoon, Australia
9114	-1.264848	-3.466886	5.185472	Cold Lake, Canada
9115	3.121273	0.592617	5.512682	Oslo, Norway
9117	-6.007405	-1.111895	1.825728	Johnston Island

Table 2. Tesseral harmonics

C	2	2	0.23790E-5	C	6	1	-0.47000E-7	C	8	1	-0.75000E-7	C	10	3	-0.65000E-7
S	2	2	-0.13510E-5	S	6	1	-0.27000E-7	S	8	1	0.65000E-7	S	10	3	0.30000E-7
C	3	1	0.19360E-5	C	6	2	0.69000E-7	C	8	2	0.26000E-7	C	10	4	-0.74000E-7
S	3	1	0.26600E-6	S	6	2	-0.36600E-6	S	8	2	0.39000E-7	S	10	4	-0.11100E-6
C	3	2	0.73400E-6	C	6	3	-0.54000E-7	C	8	3	-0.37000E-7	C	11	1	-0.53000E-7
S	3	2	-0.53800E-6	S	6	3	0.31000E-7	S	8	3	0.40000E-8	S	11	1	0.15000E-7
C	3	3	0.56100E-6	C	6	4	-0.44000E-7	C	8	4	-0.21200E-6	C	12	1	-0.16300E-6
S	3	3	0.16200E-5	S	6	4	-0.51800E-6	S	8	4	-0.12000E-7	S	12	1	-0.71000E-7
C	4	1	-0.57200E-6	C	6	5	-0.31300E-6	C	8	5	-0.53000E-7	C	12	2	-0.10300E-6
S	4	1	-0.46900E-6	S	6	5	-0.45800E-6	S	8	5	0.11800E-6	S	12	2	-0.51000E-8
C	4	2	0.33000E-6	C	6	6	-0.40000E-7	C	8	6	-0.17000E-7	C	13	12	-0.58000E-7
S	4	2	0.66100E-6	S	6	6	-0.15500E-6	S	8	6	0.31800E-6	S	13	12	0.48000E-7
C	4	3	0.85100E-6	C	7	1	0.19700E-6	C	8	7	-0.87000E-8	C	13	13	-0.75000E-7
S	4	3	-0.19000E-6	S	7	1	0.15600E-6	S	8	7	0.31000E-7	S	13	13	0.10000E-7
C	4	4	0.53000E-7	C	7	2	0.36400E-6	C	8	8	-0.24800E-6	C	14	1	-0.15000E-7
S	4	4	0.23000E-6	S	7	2	0.16300E-6	S	8	8	0.10200E-6	S	14	1	0.53000E-8
C	5	1	-0.79000E-7	C	7	3	0.25000E-6	C	9	1	0.11700E-6	C	15	12	-0.62000E-7
S	5	1	-0.10300E-6	S	7	3	0.18000E-7	S	9	1	0.12000E-7	S	15	12	0.58000E-7
C	5	2	0.63100E-6	C	7	4	-0.15200E-6	C	9	2	-0.40000E-8	C	15	13	-0.63000E-7
S	5	2	-0.23200E-6	S	7	4	-0.10200E-6	S	9	2	0.35000E-7	S	15	13	-0.66000E-7
C	5	3	-0.52000E-6	C	7	5	0.76000E-7	C	9	9	-0.65000E-7	C	15	14	0.83000E-8
S	5	3	0.70000E-8	S	7	5	0.54000E-7	S	9	9	0.90900E-7	S	15	14	-0.20100E-7
C	5	4	-0.26500E-6	C	7	6	-0.20900E-6	C	10	1	0.10500E-6				
S	5	4	0.64000E-7	S	7	6	0.63000E-7	S	10	1	-0.12600E-6				
C	5	5	0.15600E-6	C	7	7	0.55000E-7	C	10	2	-0.10500E-6				
S	5	5	-0.59200E-6	S	7	7	0.96000E-7	S	10	2	-0.42000E-7				

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DATE		TIME (A-I)			RMS	R.A.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS. NO.			
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S						
1963	7	1	23	38	34.6363	1	9	37	13.999	-31	24	15.03	4	9007	AREQUIPA	9166	2	RD	1887
	7	1	23	38	46.6360	1	9	42	31.277	-33	36	35.72	4	9007	AREQUIPA	9166	5	RD	1888
	7	3	13	57	17.6990	1	1	33	25.209	-14	3	33.25	4	9012	MAJI	10046	3	JV	721
	7	3	13	57	25.6989	1	1	36	34.869	-13	16	30.13	4	9012	MAJI	10046	5	JV	722
	7	3	17	31	7.0345	1	12	22	16.567	-48	10	53.24	4	9002	OLIFANTS	13323	5	BZ	4467
	7	3	17	31	9.0347	1	12	26	2.867	-48	38	17.57	4	9002	OLIFANTS	13323	6	BZ	4468
	7	3	23	43	20.9830	1	9	18	20.008	-43	31	4.25	4	9007	AREQUIPA	9200	2	KA	2920
7	3	23	43	28.9831	1	9	21	2.828	-44	54	43.80	4	9007	AREQUIPA	9200	4	KA	1890	
7	4	8	46	13.5298	1	1	30	52.058	-19	27	18.13	4	9010	JUPITER	9910	5	KA	1877	
7	4	8	47	48.4967	1	1	29	32.436	25	33	29.33	4	9009	CJACAD	8169	6	JV	1151	
7	4	8	48	C.4969	1	1	36	29.342	26	11	12.97	4	9009	CJACAD	8169	9	JV	1152	
7	4	10	14	18.9863	1	12	58	24.613	-21	57	21.01	4	9003	WOMERA	14925	4	FI	311	
7	6	C	31	31.3235	1	1	42	27.569	-6	8	30.60	4	9008	SHIRAZ	12734	5	JV	1153	
7	6	C	31	36.1538	1	1	44	40.780	-5	45	39.56	4	9008	SHIRAZ	12734	6	JV	1154	
7	6	8	51	39.2973	1	C	53	47.984	41	31	44.90	4	9009	CJACAD	8196	9	RD	1163	
7	6	10	18	31.1551	1	12	20	48.241	-31	23	7.73	4	9003	WOMERA	14945	3	FI	957	
7	7	14	6	47.8720	1	1	49	20.126	16	14	51.92	4	9012	MAJI	10140	3	JV	723	
7	7	14	7	3.8722	1	1	58	9.631	17	11	50.79	4	9012	MAJI	10140	7	JV	724	
7	7	17	39	51.7381	1	11	21	37.895	-58	24	44.70	4	9002	OLIFANTS	13354	4	BZ	6672	
7	7	17	40	11.7387	1	11	54	54.180	-62	33	35.54	4	9002	OLIFANTS	13354	9	BZ	4469	
7	8	0	33	25.4921	1	0	12	31.733	-8	46	36.60	4	9008	SHIRAZ	12779	3	JV	1155	
7	8	0	33	30.3205	1	C	15	53.537	-8	17	3.39	4	9008	SHIRAZ	12779	5	JV	1156	
7	8	10	23	42.3190	1	13	33	50.975	-43	0	51.65	4	9003	WOMERA	14971	4	FI	316	
7	8	10	23	48.3187	1	13	46	31.654	-43	32	31.19	4	9003	WOMERA	14971	7	FI	317	
7	8	11	0	43.3770	1	0	39	56.568	-11	2	1.78	4	9001	ORGAN PASS	10975	3	JV	296	
7	8	11	0	53.3801	1	C	46	8.974	-10	6	37.97	4	9001	ORGAN PASS	10975	8	JV	297	
7	8	16	39	21.0447	1	18	17	44.450	-45	32	31.56	4	9002	OLIFANTS	13369	5	SE	4470	
7	8	16	39	29.0444	1	18	24	34.010	-44	27	7.94	4	9002	OLIFANTS	13369	7	SE	2695	
7	9	14	10	57.6360	1	1	44	50.574	30	55	20.27	4	9012	MAJI	10200	3	RD	2919	
7	9	14	10	59.6360	1	1	46	17.910	30	58	34.26	4	9012	MAJI	10200	4	RD	726	
7	10	8	59	59.7053	1	23	35	56.805	66	34	57.13	4	9009	CJACAD	8289	7	RD	1164	
7	10	13	6	53.6061	1	1	45	58.260	13	58	41.21	4	9012	MAJI	10216	3	RD	727	
7	10	13	7	5.6060	1	1	52	24.364	14	44	59.63	4	9012	MAJI	10216	6	RD	728	
7	11	17	48	31.2953	1	11	21	44.743	-55	14	36.71	4	9002	OLIFANTS	13401	6	SE	6673	
7	11	17	48	43.2953	1	11	36	46.137	-57	4	13.84	4	9002	OLIFANTS	13401	9	SE	2697	
7	12	C	2	19.8913	1	10	27	57.959	-22	2	44.61	4	9011	VILLA DOLJ	9800	3	RD	307	
7	12	0	2	51.8907	1	10	43	17.780	-23	43	7.61	4	9011	VILLA DOLJ	9800	7	RD	308	
7	12	16	48	8.1624	1	18	14	52.752	-46	46	58.52	4	9002	OLIFANTS	13413	9	SE	2698	
7	12	16	48	41.3163	1	18	40	59.596	-41	25	44.62	4	9002	OLIFANTS	13413	14	SE	2699	
7	13	8	0	29.5971	1	C	49	5.142	70	55	23.23	4	9009	CJACAD	8339	7	RD	1165	
7	13	17	53	42.6180	1	12	48	34.804	-55	11	43.88	4	9002	OLIFANTS	13430	7	SE	2700	
7	13	17	53	46.6168	1	12	55	46.540	-55	32	41.65	4	9002	OLIFANTS	13430	8	SE	3942	
7	14	9	8	58.3697	1	2	35	57.941	36	42	4.46	4	9010	JUPITER	10039	3	KA	1878	
7	14	9	9	2.3700	1	2	38	59.018	36	33	50.86	4	9010	JUPITER	10039	4	KA	1879	
7	15	3	56	20.9788	1	1	30	41.120	4	44	1.81	4	9004	SAN FERNAN	9204	1	KA	554	

DATE			TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS.NO.		
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S						
1963	7	15	3	56	24.9789	1	1	33	40.929		4	56	44.58	4	9004	SAN FERNAN	9204	2 KA	565
	7	15	17	58	22.3713	1	13	22	49.371		-44	31	24.32	4	9002	OLIFANTS	13444	14 SE	2702
	7	15	17	58	30.3712	1	13	35	40.323		-44	37	37.34	4	9002	OLIFANTS	13444	16 SE	2703
	7	16	0	11	17.8256	1	11	5	51.807		-18	13	39.37	4	9011	VILLA DOLO	9834	3 RD	309
	7	16	2	52	51.8601	1	1	31	41.853		-3	43	58.30	4	9004	SAN FERNAN	9230	1 KA	556
7	16	2	52	59.8600	1	1	36	34.661		-3	9	42.26	4	9004	SAN FERNAN	9230	3 KA	567	
7	16	13	19	50.4485	1	2	23	30.326		55	31	0.87	4	9012	MAUI	10326	2 RD	729	
7	16	13	20	6.4486	1	2	38	42.748		53	55	25.93	4	9012	MAUI	10326	6 RD	730	
7	16	16	58	7.5446	1	18	31	19.075		-25	11	27.60	4	9002	OLIFANTS	13460	6 SE	2704	
7	16	16	58	15.5439	1	18	36	15.161		-24	0	35.20	4	9002	OLIFANTS	13460	8 SE	2705	
7	16	23	7	18.3222	1	10	51	35.202		-26	3	53.20	4	9011	VILLA DOLO	9843	6 JV	705	
7	16	23	7	34.3221	1	11	1	13.447		-26	29	16.25	4	9011	VILLA DOLO	9843	10 JV	706	
7	17	4	0	39.1045	1	1	39	42.389		10	6	5.19	4	9004	SAN FERNAN	9267	1 KA	562	
7	17	4	0	43.1044	1	1	43	2.241		10	12	42.49	4	9004	SAN FERNAN	9267	2 KA	563	
7	17	9	41	21.1658	1	17	58	5.776		-4	38	47.40	4	9003	WOMERA	15010	5 FI	313	
7	17	9	41	25.1657	1	18	0	37.538		-4	15	45.24	4	9003	WOMERA	15010	6 FI	314	
7	17	18	3	1.5494	1	13	43	4.038		-27	48	41.96	4	9002	OLIFANTS	13470	12 TA	3490	
7	17	18	3	17.5486	1	14	4	12.321		-26	41	32.55	4	9002	OLIFANTS	13470	16 TA	2707	
7	18	2	57	17.1331	1	1	47	14.899		2	12	57.91	4	9004	SAN FERNAN	9295	1 KA	560	
7	18	2	57	21.1331	1	1	49	54.175		2	25	4.37	4	9004	SAN FERNAN	9295	2 KA	551	
7	18	9	16	45.6159	1	2	15	9.910		52	20	49.80	4	9010	JUPITER	10129	2 KA	1880	
7	18	17	2	29.6453	1	18	2	48.027		-15	22	45.15	4	9002	OLIFANTS	13484	6 TA	2708	
7	18	17	2	45.6456	1	18	13	39.922		-13	10	3.13	4	9002	OLIFANTS	13484	10 TA	2709	
7	18	23	11	51.7919	1	11	16	0.269		-21	54	23.99	4	9011	VILLA DOLO	9872	9 JV	2917	
7	19	4	4	21.5233	1	1	12	58.962		12	53	33.76	4	9004	SAN FERNAN	9329	1 KA	558	
7	19	4	4	33.5232	1	1	25	24.570		13	1	29.53	4	9004	SAN FERNAN	9329	4 KA	559	
7	19	10	19	19.9926	1	1	45	44.035		26	36	22.84	4	9001	ORGAN PASS	11112	4 JV	298	
7	19	10	19	25.9906	1	1	52	2.967		26	23	39.29	4	9001	ORGAN PASS	11112	7 JV	299	
7	19	18	8	9.0296	1	14	22	13.124		-4	14	33.53	4	9002	OLIFANTS	13500	6 JV	302	
7	20	3	0	58.0758	1	1	29	5.972		5	7	55.70	4	9004	SAN FERNAN	9350	1 KA	556	
7	20	3	1	6.0757	1	1	35	56.138		5	26	1.11	4	9004	SAN FERNAN	9350	3 KA	557	
7	20	9	21	15.0359	1	2	35	23.541		53	27	19.95	4	9010	JUPITER	10175	2 RD	1881	
7	20	13	27	51.3627	1	2	5	22.176		76	24	40.24	4	9012	MAUI	10378	2 RD	731	
7	20	13	27	57.3628	1	2	20	45.608		75	25	27.44	4	9012	MAUI	10378	5 RD	732	
7	20	17	7	22.9437	1	17	51	5.485		1	32	1.43	4	9002	OLIFANTS	13512	4 JV	303	
7	20	17	7	38.9436	1	18	1	41.889		3	14	51.06	4	9002	OLIFANTS	13512	8 JV	304	
7	20	19	13	13.2252	1	12	17	47.534		3	27	28.87	4	9002	OLIFANTS	13514	9 JV	790	
7	20	23	21	10.0701	1	17	41	24.188		-45	47	2.41	4	9007	AREQUIPA	9419	1 FI	318	
7	20	23	21	14.0699	1	17	44	39.181		-45	9	37.64	4	9007	AREQUIPA	9419	2 FI	319	
7	21	8	17	8.0970	1	2	37	52.745		50	32	54.08	4	9010	JUPITER	10189	1 RD	1882	
7	21	8	17	16.0971	1	2	46	10.888		49	18	47.98	4	9010	JUPITER	10189	3 RD	1883	
7	21	12	25	6.9933	1	3	23	51.232		57	9	55.89	4	9012	MAUI	10407	2 JV	733	
7	21	12	25	14.9933	1	3	27	41.879		55	56	4.73	4	9012	MAUI	10407	6 JV	734	
7	21	14	37	35.8920	1	3	40	56.780		67	22	17.82	4	9012	MAUI	10411	1 JV	735	
7	21	14	37	45.8944	1	3	51	9.029		65	46	21.19	4	9012	MAUI	10411	6 JV	736	

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 21	18 12 46.8743	1	14 16 7.382	13 52 1.43	4	9002 OLIFANTS	13529 4 JV 306
	7 21	18 13 2.8738	1	14 30 14.883	16 10 57.14	4	9002 OLIFANTS	13529 8 RD 2172
	7 21	18 13 35.2760	1	15 0 11.445	20 51 42.14	4	9002 OLIFANTS	13529 14 RD 791
	7 22	C 25 30.2867	1	12 22 13.370	6 54 46.41	4	9011 VILLA DOLO	9898 5 JV 707
	7 22	C 25 38.0497	1	12 6 10.710	-38 28 4.17	4	9007 AREQUIPA	9439 2 FI 320
	7 22	0 26 2.2852	1	12 37 36.735	9 38 38.93	4	9011 VILLA DOLO	9898 8 JV 708
	7 22	3 5 57.9786	1	2 11 6.850	8 17 34.52	4	9004 SAN FERNAN	9397 3 KA 554
	7 22	3 6 5.9787	1	2 16 52.236	8 16 10.76	4	9004 SAN FERNAN	9397 5 KA 555
	7 22	21 55 44.3303	1	2 58 40.541	39 10 41.52	4	9006 NAINI TAL	8340 6 TA 836
	7 22	21 55 56.3305	1	3 8 15.918	37 29 11.69	4	9006 NAINI TAL	8340 9 TA 837
	7 22	23 24 27.1091	1	15 50 16.994	-43 53 39.92	4	9007 AREQUIPA	9456 8 FI 321
	7 22	23 24 31.1091	1	15 54 43.469	-43 24 35.23	4	9007 AREQUIPA	9456 9 FI 322
	7 23	1 34 2.5187	1	12 18 36.239	-6 18 26.03	4	9007 AREQUIPA	9459 4 RD 716
	7 23	10 28 25.6767	1	2 23 43.946	27 13 20.62	4	9001 ORGAN PASS	11169 4 JV 300
	7 23	10 28 33.6768	1	2 31 24.849	26 23 15.51	4	9001 ORGAN PASS	11169 8 JV 301
	7 23	12 29 22.2572	1	3 52 12.916	63 12 4.37	4	9012 MAUI	10435 3 JV 737
	7 23	12 29 28.2496	1	3 54 13.738	62 4 6.45	4	9012 MAUI	10435 6 JV 2173
	7 23	14 42 37.6124	1	4 6 7.473	59 7 28.89	4	9012 MAUI	10440 3 RD 534
	7 23	14 42 45.6124	1	4 11 42.370	57 45 35.07	4	9012 MAUI	10440 7 RD 535
	7 23	20 52 25.2050	1	3 7 48.035	30 48 33.43	4	9006 NAINI TAL	8363 4 TA 838
	7 23	20 52 37.2049	1	3 13 43.906	29 35 40.80	4	9006 NAINI TAL	8363 7 TA 839
	7 23	22 58 11.6148	1	2 52 11.490	35 33 3.05	4	9008 SHIRAZ	13154 4 JV 711
	7 23	22 59 48.4797	1	19 59 9.388	34 26 35.96	4	9006 NAINI TAL	8370 4 TA 840
	7 24	C 30 32.1038	1	12 44 10.761	17 58 51.28	4	9011 VILLA DOLO	9943 4 KA 1891
	7 24	0 30 34.1930	1	12 31 12.209	-20 50 1.51	4	9007 AREQUIPA	9483 4 PB 714
	7 24	0 30 42.1931	1	12 36 11.122	-20 19 53.37	4	9007 AREQUIPA	9483 6 PB 715
	7 24	0 30 56.1027	1	12 54 33.974	20 9 45.33	4	9011 VILLA DOLO	9943 7 KA 1892
	7 24	3 10 7.7380	1	2 8 55.175	7 38 37.79	4	9004 SAN FERNAN	9442 6 JV 2174
	7 24	3 10 11.7378	1	2 12 6.249	7 33 24.42	4	9004 SAN FERNAN	9442 7 JV 2175
	7 24	13 36 18.3673	1	23 51 12.796	85 0 28.94	4	9012 MAUI	10458 3 RD 536
	7 24	13 36 22.3676	1	0 32 38.845	84 40 7.90	4	9012 MAUI	10458 6 RD 537
	7 25	C 5 43.0837	1	1 56 12.261	41 47 46.31	4	9008 SHIRAZ	13180 3 JV 2918
	7 25	12 33 54.3711	1	4 18 15.125	64 9 24.52	4	9012 MAUI	10478 2 RD 538
	7 25	12 34 0.3712	1	4 18 59.995	62 56 17.84	4	9012 MAUI	10478 6 RD 539
	7 25	14 47 1.6540	1	3 45 6.645	54 50 15.48	4	9012 MAUI	10484 2 RD 540
	7 25	14 47 5.6541	1	3 48 28.591	54 5 2.11	4	9012 MAUI	10484 4 RD 541
	7 25	20 56 18.6083	1	2 59 59.062	35 19 34.01	4	9006 NAINI TAL	8409 4 TA 843
	7 25	20 56 26.6085	1	3 5 1.940	34 3 42.66	4	9006 NAINI TAL	8409 6 TA 844
	7 25	23 3 11.3372	1	3 20 23.083	29 35 50.23	4	9008 SHIRAZ	13204 5 JV 2921
	7 25	23 3 15.3371	1	3 22 27.617	29 3 32.88	4	9008 SHIRAZ	13204 7 JV 1158
	7 26	0 34 53.9433	1	12 26 58.398	-4 36 49.01	4	9007 AREQUIPA	9499 6 PB 712
	7 26	C 35 1.9433	1	12 30 46.507	-3 52 1.64	4	9007 AREQUIPA	9499 4 PB 713
	7 26	0 39 55.0950	1	15 15 12.025	-58 40 13.27	4	9009 CURACAO	8531 3 RD 1166
	7 26	0 40 11.0946	1	15 31 43.327	-58 24 42.29	4	9009 CURACAO	8531 7 RD 1167
	7 26	9 34 50.2977	1	2 37 56.293	33 59 25.02	4	9010 JUPITER	10225 1 RD 1884
	7 26							

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 7 26	9 34 58.2978	1	2 46 27.615	32 36 22.90	9010 JUPITER	10225	3 RD	1885
7 26	13 41 33.4729	1	3 15 15.770	76 5 44.88	9012 MAJI	10493	2 RD	542
7 26	13 41 41.4729	1	3 28 40.302	74 14 18.37	9012 MAJI	10493	6 RD	543
7 26	23 29 25.0871	1	12 4 1.204	10 46 0.34	9011 VILLA DOLLO	10004	6 RD	792
7 26	23 29 52.4130	1	12 10 53.789	-23 54 23.40	9007 AREQUIPA	9514	5 RD	719
7 26	23 30 4.4130	1	12 17 39.787	-23 18 9.43	9007 AREQUIPA	9514	8 RD	720
7 27	0 10 23.4102	1	2 2 15.989	30 22 53.70	9008 SHIRAZ	13229	3 JV	1159
7 27	0 10 25.4104	1	2 4 53.545	30 1 57.13	9008 SHIRAZ	13229	4 JV	1160
7 27	8 30 48.9608	1	3 7 11.100	42 2 33.73	9010 JUPITER	10241	6 RD	1886
7 27	10 1 34.5387	1	14 34 46.311	36 59 17.59	9003 WOOMERA	15102	7 FI	315
7 27	23 6 55.7480	1	2 49 21.770	31 54 23.48	9008 SHIRAZ	13249	3 JV	1161
7 27	23 7 1.7481	1	2 54 12.528	30 45 34.86	9008 SHIRAZ	13249	6 JV	1162
7 28	0 44 18.5296	1	14 25 25.404	-45 36 16.97	9009 CURACAO	8561	3 JV	1168
7 28	13 47 11.5658	1	3 56 8.617	56 45 58.25	9012 MAJI	10512	2 RD	544
7 28	13 47 17.5657	1	3 59 51.902	55 20 5.37	9012 MAJI	10512	5 RD	545
7 28	23 35 12.9374	1	12 35 11.346	-3 41 21.96	9007 AREQUIPA	9558	3 RD	717
7 28	23 35 20.9371	1	12 39 13.088	-2 57 13.21	9007 AREQUIPA	9558	5 RD	718
7 29	8 39 59.2167	1	4 54 56.143	47 12 26.00	9009 CURACAO	8584	6 JV	1169
7 29	8 40 11.2162	1	4 58 26.857	45 11 44.63	9009 CURACAO	8584	9 JV	2176
7 29	14 56 14.0126	1	2 52 30.351	28 34 20.04	9012 MAJI	10536	3 PB	546
7 29	14 56 18.0125	1	2 56 28.272	27 47 11.41	9012 MAJI	10536	5 PB	547
7 30	13 52 3.7743	1	3 37 43.016	43 55 38.99	9012 MAJI	10555	2 PB	548
7 30	13 52 11.7744	1	3 43 14.095	41 55 50.28	9012 MAJI	10555	6 PB	549
7 30	22 50 0.9492	1	19 4 55.875	-7 57 51.88	9009 CURACAO	8599	11 JV	1172
7 31	4 27 48.8424	1	21 31 43.204	-15 8 31.88	9004 SAN FERNAN	9617	1 KA	552
7 31	4 27 52.8426	1	21 35 40.417	-15 28 56.89	9004 SAN FERNAN	9617	2 KA	553
7 31	8 43 55.7662	1	4 8 1.117	45 54 56.94	9009 CURACAO	8626	7 RD	2922
7 31	8 44 3.7666	1	4 12 43.113	44 14 16.58	9009 CURACAO	8626	11 RD	2923
7 31	12 48 38.8297	1	4 16 48.890	42 39 44.36	9012 MAJI	10578	2 JV	550
7 31	12 48 42.8298	1	4 17 32.716	41 48 44.86	9012 MAJI	10578	4 JV	551
7 31	15 1 3.6463	1	2 30 30.138	3 22 4.65	9012 MAJI	10586	4 TA	2178
7 31	15 1 9.6462	1	2 36 19.708	2 28 52.47	9012 MAJI	10586	7 TA	842
8 1	0 54 31.2569	1	13 59 3.585	-0 58 49.37	9009 CURACAO	8630	2 BZ	886
8 1	0 54 33.2560	1	14 0 12.222	-0 42 59.25	9009 CURACAO	8630	3 BZ	887
8 1	7 12 31.3328	1	14 10 37.124	-15 39 48.93	9012 MAJI	10593	4 AM	9518
8 1	7 12 39.3326	1	14 14 38.941	-15 9 27.38	9012 MAJI	10593	6 AM	9519
8 2	12 54 10.7837	1	4 10 48.856	22 35 22.23	9012 MAJI	10616	7 TA	9520
8 2	15 4 27.8362	1	0 29 25.959	-11 11 6.06	9012 MAJI	10625	7 TA	9521
8 3	7 17 5.7110	1	13 46 8.968	1 47 57.10	9012 MAJI	10634	4 TA	9522
8 3	10 2 57.0498	1	5 31 33.407	27 14 25.41	9007 AREQUIPA	9662	3 KA	9096
8 3	10 3 5.0497	1	5 34 11.322	26 26 31.44	9007 AREQUIPA	9662	4 KA	9097
8 3	14 1 48.8774	1	2 46 50.826	-2 13 41.70	9012 MAJI	10645	8 AC	873
8 3	14 1 50.8775	1	2 48 39.443	-2 31 49.86	9012 MAJI	10645	9 AC	874
8 4	2 6 15.2994	1	14 34 50.451	-10 9 39.02	9010 JUPITER	10410	7 AM	9514
8 6	6 18 27.8677	1	14 14 44.871	12 16 36.71	9012 MAJI	10652	2 FI	9020

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	D3S.VD.
1963 8 6	6 18 29.8678	1	14 15 58.586	12 32 40.43	9012 MAUI	10652	3 FI	9021
8 6	8 30 59.5555	1	13 23 52.964	36 44 34.73	9012 MAUI	10657	6 TA	328
8 6	20 59 55.3031	1	15 50 25.864	-16 47 32.61	9004 SAN FERNAN	9756	7 JW	9618
8 7	7 26 47.7672	1	13 21 22.082	31 36 54.07	9012 MAUI	10677	3 TA	329
8 7	7 26 53.7673	1	13 23 0.916	32 29 56.52	9012 MAUI	10677	6 TA	330
8 7	11 38 31.8066	1	15 24 20.865	- 8 50 38.38	9005 TOKYO	8733	3 TA	324
8 7	14 11 32.4318	1	1 44 5.533	-45 25 47.68	9012 MAUI	10694	7 VG	331
8 8	4 22 10.3133	1	14 37 11.920	5 38 16.57	9001 ORGANA PASS	11281	3 KA	9063
8 8	4 22 18.3132	1	14 41 17.203	6 10 41.31	9001 ORGANA PASS	11281	7 KA	80
8 8	6 22 25.4476	1	13 33 29.902	23 5 16.01	9012 MAUI	10702	3 NG	332
8 8	6 22 29.4477	1	13 35 14.553	23 37 1.66	9012 MAUI	10702	5 VG	333
8 8	21 3 59.0730	1	15 22 0.012	- 7 1 52.07	9004 SAN FERNAN	9807	2 JW	9616
8 8	21 4 7.0729	1	15 27 22.297	- 6 47 20.37	9004 SAN FERNAN	9807	4 JW	9617
8 9	3 18 50.3650	1	15 10 10.027	1 55 3.89	9001 ORGANA PASS	11306	4 TA	9064
8 9	3 18 54.3649	1	15 13 3.417	2 11 0.02	9001 ORGANA PASS	11306	6 TA	9065
8 10	6 27 26.4699	1	13 29 4.061	38 10 25.59	9012 MAUI	10747	4 VG	334
8 10	6 27 28.4700	1	13 29 57.506	38 27 51.52	9012 MAUI	10747	5 TA	335
8 10	8 40 38.7196	1	13 28 47.327	48 31 56.34	9012 MAUI	10752	5 AC	875
8 10	8 40 42.7197	1	13 29 18.841	49 5 50.29	9012 MAUI	10752	7 AC	876
8 12	2 57 35.5260	1	1 3 48.474	38 48 23.42	9002 OLIFANTS	13916	6 KA	9078
8 12	6 32 15.9770	1	13 25 52.729	48 13 39.67	9012 MAUI	10765	3 AC	877
8 12	6 32 23.9771	1	13 29 38.604	49 22 43.77	9012 MAUI	10765	7 AC	878
8 12	9 16 36.0592	1	5 6 2.131	-13 35 43.00	9007 AREQUIPA	9757	3 TA	6134
8 12	9 16 40.0591	1	5 8 43.730	-13 58 5.47	9007 AREQUIPA	9757	4 TA	813
8 12	9 20 1.5980	1	5 16 41.479	10 47 6.30	9011 VILLA DOLO	10234	4 KA	9080
8 12	9 20 13.5981	1	5 22 56.689	9 42 3.32	9011 VILLA DOLO	10234	7 KA	9081
8 12	10 43 54.0926	1	15 35 59.044	7 38 20.33	9005 TOKYO	8780	3 TA	325
8 12	10 44 2.0928	1	15 42 27.753	8 1 33.67	9005 TOKYO	8780	5 TA	326
8 13	1 56 3.0032	1	3 26 4.697	37 42 3.70	9002 OLIFANTS	13939	6 KA	81
8 13	1 56 11.0032	1	3 31 59.854	36 38 28.12	9002 OLIFANTS	13939	8 KA	82
8 13	3 27 9.7058	1	14 34 19.073	19 18 50.59	9001 ORGANA PASS	11340	2 TA	9056
8 13	3 27 17.7082	1	14 39 11.535	19 55 42.47	9001 ORGANA PASS	11340	6 TA	9057
8 14	C 19 14.1186	1	13 0 9.778	66 46 32.64	9009 CURACAO	8749	3 BZ	888
8 14	9 21 50.4163	1	5 42 5.138	-34 58 17.92	9007 AREQUIPA	9789	7 AM	1588
8 14	9 21 58.4325	1	5 47 47.564	-35 2 15.06	9007 AREQUIPA	9789	9 AM	1589
8 14	9 24 18.1184	1	5 16 52.355	1 53 48.84	9011 VILLA DOLO	10267	6 KA	9082
8 14	9 24 30.1183	1	5 24 26.457	0 52 34.44	9011 VILLA DOLO	10267	9 KA	9083
8 14	21 16 35.3490	1	14 57 32.391	11 37 23.09	9004 SAN FERNAN	9854	2 JW	9619
8 14	21 16 43.3491	1	15 2 11.130	11 50 31.59	9004 SAN FERNAN	9854	4 JW	9620
8 15	18 45 18.7792	1	4 3 29.999	23 34 46.13	9003 WOOMERA	15376	7 SC	861
8 15	18 45 26.7788	1	4 9 14.186	22 33 8.73	9003 WOOMERA	15376	9 SC	862
8 15	20 17 8.2234	1	19 18 56.454	15 21 27.61	9004 SAN FERNAN	9875	2 JW	9621
8 15	20 17 16.2235	1	19 27 28.553	15 1 33.28	9004 SAN FERNAN	9875	4 JW	9622
8 16	3 6 47.7491	1	23 52 5.231	9 38 12.70	9002 OLIFANTS	14003	5 AM	879
8 16	17 9 25.1134	1	14 25 29.742	34 2 5.35	9008 SHIRAZ	13528	4 AM	816

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 17	5 42 49.1967	1	21 48 34.618	53 57 14.72	9012 MAUI	10816	4 TA	336
8 17	5 42 51.1967	1	21 49 53.415	53 43 8.38	9012 MAUI	10816	5 TA	553
8 17	8 25 0.3355	1	5 22 35.314	3 16 31.77	9011 VILLA DOLO	10296	9 KA	83
8 17	8 25 8.3353	1	5 27 23.292	2 33 58.52	9011 VILLA DOLO	10296	11 KA	9085
8 17	18 50 2.6468	1	4 13 59.499	11 43 2.27	9003 WOOMERA	15407	9 SC	863
8 17	18 50 4.6465	1	4 15 43.388	11 27 5.21	9003 WOOMERA	15407	10 SC	854
8 17	20 17 44.4267	1	15 36 30.122	17 43 39.63	9004 SAN FERNAN	9911	3 JW	9623
8 17	20 17 52.4265	1	15 42 41.428	17 53 40.41	9004 SAN FERNAN	9911	5 JW	9624
8 17	22 28 57.2410	1	15 33 27.073	5 14 10.62	9004 SAN FERNAN	9920	3 JW	9625
8 17	22 29 5.2412	1	15 37 26.229	4 59 26.25	9004 SAN FERNAN	9920	4 JW	9626
8 18	3 11 7.9412	1	23 10 14.604	- 5 2 20.02	9002 OLIFANTS	14036	5 AM	880
8 18	3 11 11.9413	1	23 13 3.775	- 5 35 35.91	9002 OLIFANTS	14036	6 AM	881
8 18	9 33 22.3844	1	5 51 7.560	-18 57 36.05	9011 VILLA DOLO	10320	3 KA	9086
8 18	9 33 30.3843	1	5 57 31.819	-19 7 28.86	9011 VILLA DOLO	10320	5 KA	9087
8 18	19 54 38.6122	1	23 50 18.355	7 16 27.09	9003 WOOMERA	15431	4 SC	865
8 18	19 54 42.6122	1	23 53 30.464	6 54 10.20	9003 WOOMERA	15431	6 EM	866
8 19	2 11 20.9784	1	4 41 45.982	-20 33 46.92	9002 OLIFANTS	14057	7 AM	882
8 19	3 39 37.1920	1	14 37 5.469	24 52 26.20	9001 ORGAN PASS	11381	3 TA	9068
8 19	3 39 53.1921	1	14 45 54.143	25 24 6.26	9001 ORGAN PASS	11381	7 EM	9069
8 19	5 44 13.4603	1	18 2 6.344	69 21 31.81	9012 MAUI	10842	4 TA	337
8 19	5 44 15.4603	1	18 5 55.169	69 18 57.67	9012 MAUI	10842	5 TA	338
8 19	16 9 28.5084	1	14 35 11.382	37 54 13.91	9008 SHIRAZ	13584	3 AM	817
8 19	18 54 34.5519	1	4 21 6.999	- 1 18 54.90	9003 WOOMERA	15444	3 EM	867
8 19	18 54 36.5518	1	4 23 14.190	- 1 32 47.12	9003 WOOMERA	15444	4 EM	868
8 19	22 33 10.0283	1	15 45 25.966	1 14 2.46	9004 SAN FERNAN	9961	3 KA	9905
8 20	2 42 45.2873	1	21 11 26.572	15 54 44.00	9001 ORGAN PASS	11390	5 EM	9070
8 20	2 43 5.2907	1	21 23 17.053	14 12 7.45	9001 ORGAN PASS	11390	10 EM	9071
8 20	6 50 30.4046	1	14 21 51.341	57 9 35.37	9012 MAUI	10861	6 KA	824
8 20	6 50 38.4046	1	14 27 43.325	57 52 49.61	9012 MAUI	10861	8 KA	825
8 20	9 37 39.8420	1	6 1 54.142	-26 17 2.54	9011 VILLA DOLO	10350	8 KA	9088
8 20	9 37 43.8420	1	6 5 31.595	-26 12 14.91	9011 VILLA DOLO	10350	9 KA	9089
8 20	11 0 2.1381	1	15 11 23.320	17 17 17.30	9005 TOKYO	8816	5 TA	327
8 20	21 28 57.4983	1	15 15 31.344	9 15 41.28	9004 SAN FERNAN	9978	3 KA	9906
8 20	21 29 5.4982	1	15 19 30.264	9 4 51.79	9004 SAN FERNAN	9978	4 KA	9907
8 21	2 15 34.5773	1	4 30 39.761	-38 59 57.51	9002 OLIFANTS	14095	8 AM	1586
8 21	5 46 17.5055	1	14 44 48.057	62 23 8.14	9012 MAUI	10882	8 KA	826
8 21	16 13 40.6045	1	14 45 20.219	36 26 21.90	9008 SHIRAZ	13623	3 AM	818
8 21	18 58 57.8111	1	4 23 22.534	-15 4 47.87	9003 WOOMERA	15468	2 EM	869
8 21	18 59 11.8107	1	4 41 25.559	-15 57 9.52	9003 WOOMERA	15468	9 EM	870
8 21	20 24 48.6118	1	15 1 6.005	15 54 3.39	9004 SAN FERNAN	9999	4 KA	9908
8 21	20 24 56.6122	1	15 5 29.863	15 52 42.50	9004 SAN FERNAN	9999	5 KA	526
8 21	22 37 24.3632	1	15 57 17.134	- 3 41 8.06	9004 SAN FERNAN	10006	5 TA	525
8 21	22 37 40.3636	1	16 4 10.723	- 4 39 48.27	9004 SAN FERNAN	10006	7 TA	524
8 22	3 20 35.8719	1	22 36 53.092	-31 48 54.62	9002 OLIFANTS	14119	2 AM	884
8 22	3 20 43.8720	1	22 42 6.728	-33 18 30.09	9002 OLIFANTS	14119	4 AM	885

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	CHS. NO.
1963	8 22	15 15 55.8873	15 5 28.701	28 4 26.73	9006 NAINI TAL	8430	3 KA	9915
	8 22	21 33 36.5984	15 40 24.742	3 47 11.09	9004 SAN FERVAN	10030	4 TA	523
	8 22	21 33 44.5988	15 44 22.554	3 25 19.54	9004 SAN FERVAN	10030	5 TA	9910
	8 23	1 46 5.7233	14 44 53.019	58 4 17.14	9009 CJRACAD	8858	1 SC	1587
	8 23	5 49 57.2144	14 29 13.952	57 21 39.72	9012 MAUI	10915	2 KA	827
	8 23	5 50 13.2146	14 42 14.853	58 19 9.15	9012 MAUI	10915	6 KA	828
	8 23	20 28 47.0351	15 6 6.892	12 49 57.38	9004 SAN FERVAN	10048	3 TA	9911
	8 23	20 29 3.0354	15 14 13.886	12 31 18.27	9004 SAN FERVAN	10048	5 TA	4012
	8 24	C 42 51.3659	15 54 1.153	69 52 10.20	9009 CURACAD	8873	3 BZ	889
	8 24	C 42 55.3663	15 59 18.147	70 3 3.44	9009 CURACAD	8873	4 SC	890
	8 24	2 44 34.0608	15 23 0.023	25 36 53.08	9001 ORGAN PASS	11410	6 EM	9072
	8 24	2 44 38.0619	15 25 35.505	25 35 55.51	9001 ORGAN PASS	11410	8 EM	9073
	8 24	9 45 57.9248	5 57 15.175	-33 57 57.55	9011 VILLA DOLO	10385	7 KA	9090
	8 24	9 46 1.9246	6 2 0.604	-33 35 57.33	9011 VILLA DOLO	10385	8 KA	9091
	8 24	17 26 29.7148	15 23 45.296	15 39 21.20	9008 SHIRAZ	13670	6 NG	819
	8 24	20 8 19.8994	23 6 2.406	-22 29 41.37	9003 WOOMERA	15524	6 SE	2460
	8 24	20 8 27.8994	23 12 25.569	-23 37 44.16	9003 WOOMERA	15524	10 SE	871
	8 25	1 50 28.3392	15 8 32.741	49 23 29.13	9009 CJRACAD	8892	2 SC	891
	8 25	1 50 48.3391	15 19 42.108	50 7 0.14	9009 CJRACAD	8892	7 SC	892
	8 25	3 52 0.8077	15 10 26.751	11 37 9.87	9001 ORGAN PASS	11437	5 EM	9074
	8 25	3 52 20.8076	15 19 21.705	10 56 36.48	9001 ORGAN PASS	11437	10 EM	9075
	8 25	5 54 7.8994	14 43 47.365	52 37 33.92	9012 MAUI	10944	2 KA	829
	8 25	5 54 23.8998	14 55 35.523	53 16 9.16	9012 MAUI	10944	6 KA	830
	8 25	16 21 44.7588	14 59 46.775	26 18 40.65	9008 SHIRAZ	13685	4 NG	820
	8 25	16 21 52.7589	15 4 7.839	26 16 0.05	9008 SHIRAZ	13685	6 NG	821
	8 26	0 45 6.2391	17 33 26.229	34 4 28.78	9010 JJPITER	10715	13 AM	9515
	8 26	0 45 14.2394	17 40 36.358	33 36 43.36	9010 JJPITER	10715	15 AM	9516
	8 26	0 46 16.8552	15 14 56.361	60 15 8.85	9009 CJRACAD	8900	4 FI	9012
	8 26	0 46 20.8551	15 18 6.898	60 25 8.26	9009 CJRACAD	8900	5 FI	9013
	8 26	5 1 3.2574	15 56 13.044	-6 15 30.97	9001 ORGAN PASS	11450	4 KA	9076
	8 26	5 1 11.2573	15 59 6.791	-6 48 0.80	9001 ORGAN PASS	11450	6 KA	9077
	8 26	9 49 9.2990	4 3 49.995	-38 19 7.49	9011 VILLA DOLO	10421	2 KA	9092
	8 26	9 49 17.2989	4 19 28.023	-37 51 54.14	9011 VILLA DOLO	10421	6 KA	9093
	8 26	15 23 56.7833	15 18 23.175	13 8 32.23	9006 NAINI TAL	8451	4 KA	9916
	8 26	15 24 4.7825	15 21 56.433	12 50 2.39	9006 NAINI TAL	8451	6 KA	9917
	8 26	23 42 56.9898	17 3 15.391	67 13 59.09	9009 CJRACAD	8905	7 FI	9014
	8 26	23 43 4.9895	17 12 58.389	67 9 13.13	9009 CJRACAD	8905	9 FI	9015
	8 27	5 58 54.1536	15 20 33.184	46 12 14.13	9012 MAUI	10976	10 FI	9022
	8 27	19 11 57.4580	4 7 39.682	-45 16 22.62	9003 WOOMERA	15561	6 SE	872
	8 28	7 7 10.3391	15 16 13.475	24 5 5.83	9012 MAUI	10995	7 FI	9023
	8 28	7 7 14.3391	15 17 58.909	23 58 42.49	9012 MAUI	10995	8 FI	9024
	8 28	9 50 38.4360	23 24 51.636	-22 40 20.74	9011 VILLA DOLO	10443	3 KA	552
	8 28	9 50 46.4358	23 31 52.122	-23 25 34.54	9011 VILLA DOLO	10443	5 KA	9095
	8 28	20 19 53.4930	3 10 31.215	-38 24 44.84	9003 WOOMERA	15574	4 AM	9903
	8 28	20 19 57.4928	3 19 24.544	-38 16 41.22	9003 WOOMERA	15574	6 KA	9904

DATE	TIME (A-I)	RMS	R.A. (1950.0)	DECL. (1950.0)	RMS	STATION	FRAME NO.	MS	OBS. NO.
Y M D	H M S	MS	H M S	D M S	S				
1963	8 28	23 46	23.5569	1	1	9009	CJRACAO	8925	6 FI 9016
	8 28	23 46	31.5576	1	1	9009	CJRACAO	8925	8 FI 9017
	8 29	6 2	15.7506	1	1	9012	MAUJ	10997	3 FI 9025
	8 29	6 2	23.7506	1	1	9012	MAUJ	10997	5 FI 9026
	8 29	8 15	40.7130	1	1	9012	MAUJ	11007	6 FI 9027
	8 29	8 15	48.7129	1	1	9012	MAUJ	11007	8 FI 9028
	8 29	16 30	10.8512	1	1	9008	SHIRAZ	13769	4 KA 822
	8 29	16 30	22.8515	1	1	9008	SHIRAZ	13769	7 KA 823
	8 29	19 15	53.0107	1	1	9003	WOODMERA	15585	8 JW 248
	8 29	20 41	46.2837	1	1	9004	SAN FERNAN	10201	4 KA 9913
	8 29	20 42	2.2839	1	1	9004	SAN FERNAN	10201	6 KA 9914
	8 30	0 50	13.5637	1	1	9010	JUPITER	10790	4 AM 9517
	8 30	23 50	6.1888	1	1	9009	CJRACAO	8950	4 FI 9018
	8 30	23 50	22.1893	1	1	9009	CJRACAO	8950	8 FI 9019
	8 31	6 6	55.3472	1	1	9012	MAUJ	11043	7 FI 9029
	8 31	6 7	7.3474	1	1	9012	MAUJ	11043	10 FI 9030
	8 31	19 20	49.9381	1	1	9003	WOODMERA	15615	2 JW 85
	8 31	19 20	53.9381	1	1	9003	WOODMERA	15615	4 JW 554
	9 1	0 54	57.1533	1	1	9010	JUPITER	10855	3 FI 2814
	9 1	10 3	1.3805	1	1	9007	AREQUIPA	9990	3 FI 5758
	9 1	10 3	5.3805	1	1	9007	AREQUIPA	9990	4 FI 5013
	9 2	6 10	53.2709	1	1	9012	MAUJ	11097	4 FI 2815
	9 2	6 11	1.2709	1	1	9012	MAUJ	11097	6 FI 2816
	9 4	2 46	28.3386	1	1	9002	OLIFANTS	14342	1 SC 3996
	9 4	2 46	34.3419	1	1	9002	OLIFANTS	14342	4 SC 3997
	9 8	10 46	0.8766	1	1	9003	WOODMERA	15733	7 JW 4172
	9 8	19 38	41.6268	1	1	9003	WOODMERA	15746	4 JW 7182
	9 8	19 38	43.6267	1	1	9003	WOODMERA	15746	5 JW 4174
	9 9	5 26	10.4084	1	1	9012	MAUJ	11180	4 TA 3675
	9 9	5 26	22.4085	1	1	9012	MAUJ	11180	7 TA 3676
	9 9	18 7	40.6205	1	1	9002	OLIFANTS	14430	7 KA 4061
	9 11	11 56	30.4405	1	1	9003	WOODMERA	15794	3 JW 4175
	9 11	11 56	38.4403	1	1	9003	WOODMERA	15794	5 JW 4176
	9 11	18 12	52.8443	1	1	9002	OLIFANTS	14463	3 KA 4062
	9 12	0 16	40.3379	1	1	9009	CJRACAO	9003	4 SE 4089
	9 12	0 16	52.3379	1	1	9009	CJRACAO	9003	7 SE 4090
	9 12	19 17	47.0030	1	1	9002	OLIFANTS	14487	5 BZ 4063
	9 12	19 17	55.0043	1	1	9002	OLIFANTS	14487	6 SE 4064
	9 13	9 55	45.4577	1	1	9003	WOODMERA	15825	3 JW 5442
	9 13	9 56	5.4573	1	1	9003	WOODMERA	15825	8 JW 4178
	9 13	18 17	30.8390	1	1	9002	OLIFANTS	14500	3 SE 6486
	9 13	18 17	34.8387	1	1	9002	OLIFANTS	14500	4 SE 5446
	9 14	0 33	57.7124	1	1	9011	VILLA DOLO	10518	3 KA 3691
	9 14	0 34	9.7123	1	1	9011	VILLA DOLO	10518	6 KA 3692
	9 14	23 33	37.5217	1	1	9011	VILLA DOLO	10539	3 SE 4107

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 9 14	23 34 9.5209	1	22 47 49.152	- 4 1 7.60	4	9011 VILLA DOLO	10539	7 SE	4108
9 15	1 39 33.0824	1	18 1 43.472	- 5 22 19.47	4	9011 VILLA DOLO	10544	2 NG	4109
9 15	1 39 49.0822	1	18 9 11.780	- 6 17 30.12	4	9011 VILLA DOLO	10544	4 NG	4110
9 15	12 6 43.4305	1	18 12 30.369	-10 46 2.64	4	9003 WOOMERA	15873	4 RD	4179
9 15	12 6 51.4304	1	18 16 43.066	-11 19 9.26	4	9003 WOOMERA	15873	6 RD	4180
9 16	0 38 52.9330	1	20 39 51.291	-12 0 55.63	4	9011 VILLA DOLO	10559	3 SE	4105
9 16	0 39 7.5988	1	23 5 6.414	-52 22 37.17	4	9007 AREQUIPA	10090	4 SE	4068
9 16	0 39 8.9326	1	20 53 38.900	-12 51 5.41	4	9011 VILLA DOLO	10559	7 SE	4106
9 16	11 6 0.7645	1	21 5 25.774	-17 27 59.92	4	9003 WOOMERA	15894	2 RD	4181
9 16	11 6 4.7645	1	21 8 59.723	-17 38 41.57	4	9003 WOOMERA	15894	4 RD	4182
9 16	23 31 35.1643	1	20 9 32.955	-35 17 58.25	4	9007 AREQUIPA	10102	3 SE	4071
9 16	23 31 51.1640	1	20 20 43.274	-35 58 56.54	4	9007 AREQUIPA	10102	5 SE	4072
9 16	23 38 44.1429	1	23 5 18.579	-12 11 53.42	4	9011 VILLA DOLO	10578	3 NG	4111
9 17	1 44 14.0841	1	18 4 39.922	-62 36 24.85	4	9007 AREQUIPA	10109	3 BZ	5444
9 17	12 10 50.6456	1	17 58 13.103	-18 53 46.26	4	9003 WOOMERA	15924	6 RD	4183
9 17	12 10 58.6455	1	18 2 8.337	-19 27 45.83	4	9003 WOOMERA	15924	8 RD	4184
9 17	18 27 30.3281	1	21 29 44.515	-43 44 22.04	4	9002 OLIFANTS	14583	7 BZ	4191
9 17	18 27 38.3294	1	21 39 0.744	-43 51 29.32	4	9002 OLIFANTS	14583	8 BZ	6338
9 18	11 10 54.2830	1	21 38 53.326	-28 37 16.41	4	9003 WOOMERA	15946	3 RD	4185
9 18	11 11 14.2824	1	21 58 20.072	-28 48 7.58	4	9003 WOOMERA	15946	8 RD	5443
9 19	18 31 48.2005	1	21 31 3.271	-50 38 5.07	4	9002 OLIFANTS	14630	4 BZ	4193
9 20	0 39 47.2295	1	16 15 23.206	-40 0 52.34	4	9007 AREQUIPA	10172	4 SE	4073
9 20	0 39 55.2297	1	16 17 56.436	-40 40 30.90	4	9007 AREQUIPA	10172	5 SE	4074
9 20	0 42 4.9417	1	17 11 59.796	-13 38 17.55	4	9011 VILLA DOLO	10656	3 BZ	4112
9 20	23 36 1.2182	1	17 3 22.808	-41 32 19.86	4	9007 AREQUIPA	10187	4 TA	4120
9 20	23 36 25.2179	1	17 15 31.405	-43 19 20.62	4	9007 AREQUIPA	10187	7 TA	4121
9 20	23 37 6.5757	1	17 9 27.548	- 8 59 5.51	4	9011 VILLA DOLO	10674	3 NG	4113
9 20	23 37 38.5750	1	17 21 52.785	-10 27 43.05	4	9011 VILLA DOLO	10674	7 NG	4114
9 21	8 42 14.8796	1	8 5 52.191	11 46 21.27	4	9009 CURACAO	9063	6 KA	4313
9 21	8 42 18.8798	1	8 9 15.786	12 21 8.70	4	9009 CURACAO	9063	8 KA	4314
9 21	15 0 0.8620	1	7 27 56.800	-12 26 36.79	4	9012 MAUI	11339	2 TA	3677
9 21	15 0 8.8625	1	7 36 52.492	-10 38 1.71	4	9012 MAUI	11339	6 TA	3678
9 21	18 37 7.1940	1	22 50 38.749	-51 56 33.48	4	9002 OLIFANTS	14663	10 BZ	4194
9 21	18 37 15.1939	1	22 59 38.994	-51 28 55.78	4	9002 OLIFANTS	14663	11 SC	4195
9 22	0 44 8.2403	1	16 9 27.114	-45 43 43.21	4	9007 AREQUIPA	10202	3 SE	4069
9 22	0 44 16.2398	1	16 11 57.737	-46 20 36.95	4	9007 AREQUIPA	10202	4 SE	4070
9 22	0 45 30.6484	1	16 53 39.311	-17 58 6.08	4	9011 VILLA DOLO	10694	7 NG	4115
9 22	1 27 14.5502	1	5 22 56.031	-39 3 1.47	4	9008 SHIRAZ	14205	2 AC	4462
9 22	11 17 44.6566	1	20 5 3.144	-37 39 16.28	4	9003 WOOMERA	16016	7 RD	4187
9 22	11 17 52.6564	1	20 12 36.346	-37 52 29.25	4	9003 WOOMERA	16016	9 RD	4188
9 22	11 55 45.0921	1	7 20 21.793	-28 46 34.30	4	9001 ORGAN PASS	11738	2 SC	4092
9 22	11 55 53.0920	1	7 27 34.179	-27 37 58.43	4	9001 ORGAN PASS	11738	4 SC	4093
9 22	19 41 49.4185	1	18 16 39.101	-46 33 51.48	4	9002 OLIFANTS	14692	7 SC	4196
9 22	19 41 57.4180	1	18 22 0.184	-47 11 36.95	4	9002 OLIFANTS	14692	8 SC	4197
9 23	8 46 22.6297	1	7 23 40.109	41 43 0.06	4	9009 CURACAO	9073	4 KA	4315

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 9 23	8 46 28.6297	1	7 33 38.519	41 47 13.48	9009 CJRACAD	9073	7 KA	6487
9 23	15 4 41.0572	1	7 25 9.095	15 52 58.86	9012 MAUI	11364	2 JV	3679
9 23	15 4 47.0573	1	7 34 36.094	16 49 29.83	9012 MAUI	11364	5 JV	3680
9 23	18 41 12.6817	1	22 39 38.618	-52 22 23.01	9002 OLIFANTS	14718	7 SC	4198
9 23	18 41 20.6822	1	22 48 35.361	-51 53 39.66	9002 OLIFANTS	14718	8 SC	6339
9 24	11 21 10.1613	1	19 28 54.506	-37 49 54.64	9003 WOOMERA	16046	5 RD	4189
9 24	11 59 52.2144	1	6 48 19.209	-23 29 46.38	9001 ORGAN PASS	11759	2 SC	4094
9 24	12 0 2.2142	1	7 0 37.017	-21 55 9.80	9001 ORGAN PASS	11759	7 SC	4095
9 24	14 1 29.7072	1	7 53 27.884	-6 47 7.17	9012 MAUI	11374	2 JV	3681
9 24	14 1 37.7072	1	8 0 7.750	-5 17 27.15	9012 MAUI	11374	6 JV	3682
9 24	23 42 55.6051	1	16 4 58.695	-47 45 30.85	9007 AREQUIPA	10254	6 TA	4119
9 25	10 21 54.0923	1	23 23 7.636	-28 25 26.71	9003 WOOMERA	16070	5 RD	4079
9 25	10 22 18.0921	1	23 35 49.623	-27 6 4.99	9003 WOOMERA	16070	11 RD	4080
9 25	12 28 41.9725	1	18 48 23.885	-30 17 55.62	9003 WOOMERA	16080	7 EM	4081
9 25	12 28 53.9723	1	18 55 41.297	-30 34 21.68	9003 WOOMERA	16080	10 EM	4082
9 25	15 8 33.6913	1	5 17 38.141	44 39 48.58	9012 MAUI	11388	5 JV	3683
9 25	15 8 35.6913	1	5 23 47.578	45 2 34.68	9012 MAUI	11388	12 JV	3684
9 25	18 44 58.5665	1	22 4 15.855	-51 12 14.57	9002 OLIFANTS	14761	5 SC	4200
9 25	18 45 23.6597	1	22 31 27.871	-49 51 26.39	9002 OLIFANTS	14761	10 TA	4201
9 26	11 27 36.5473	1	21 33 58.945	-35 14 25.68	9003 WOOMERA	16099	3 EM	4083
9 26	11 28 4.5467	1	21 59 3.008	-33 57 41.02	9003 WOOMERA	16099	10 EM	4084
9 26	12 3 7.5399	1	4 36 8.189	-22 13 27.28	9001 ORGAN PASS	11800	1 SC	6336
9 26	12 3 11.5397	1	4 42 26.408	-21 46 34.42	9001 ORGAN PASS	11800	3 SC	4097
9 26	17 44 37.2938	1	0 30 25.053	-31 41 3.76	9002 OLIFANTS	14778	8 TA	4202
9 26	22 28 37.3073	1	7 44 0.305	-13 59 40.42	9006 NAINI TAL	8669	3 TA	4101
9 26	22 28 45.3073	1	7 51 38.260	-12 38 38.83	9006 NAINI TAL	8669	7 TA	4102
9 27	0 34 34.6643	1	7 27 13.047	-12 2 9.31	9008 SHIRAZ	14286	4 KA	4309
9 27	0 34 38.6641	1	7 32 5.796	-11 18 0.04	9008 SHIRAZ	14286	6 KA	4310
9 27	4 46 25.0708	1	6 59 59.679	-25 45 15.64	9004 SAN FERNAN	10633	3 RD	4075
9 27	4 46 33.0710	1	7 8 47.928	-24 40 4.99	9004 SAN FERNAN	10633	7 RD	6335
9 27	8 55 12.6589	1	3 3 36.383	82 13 34.97	9009 CJRACAD	9117	6 BZ	4464
9 27	15 14 9.4205	1	8 28 1.858	67 32 18.25	9012 MAUI	11404	5 JV	3685
9 27	15 14 13.4204	1	8 39 17.594	66 50 3.31	9012 MAUI	11404	7 JV	3686
9 27	18 49 6.9836	1	21 52 44.861	-46 13 15.53	9002 OLIFANTS	14806	2 FI	4122
9 27	18 49 14.9852	1	22 0 38.482	-45 48 24.87	9002 OLIFANTS	14806	4 FI	4123
9 28	23 53 49.8340	1	17 17 26.533	-30 22 4.90	9011 VILLA DOLO	10725	4 VG	4466
9 28	23 53 57.8336	1	17 20 51.415	-30 35 59.31	9011 VILLA DOLO	10725	5 VG	4116
9 29	4 50 20.9896	1	6 14 41.621	-22 53 39.48	9004 SAN FERNAN	10681	4 RD	4077
9 29	4 50 28.9907	1	6 26 37.369	-21 49 56.30	9004 SAN FERNAN	10681	8 RD	4078
9 29	23 40 47.0677	1	7 35 19.577	40 37 8.82	9006 NAINI TAL	8721	7 VG	4465
9 30	14 15 24.9186	1	9 27 21.138	58 58 12.48	9012 MAUI	11429	4 AC	3687
9 30	14 15 30.9188	1	9 34 27.205	57 43 50.17	9012 MAUI	11429	7 AC	3688
9 30	22 38 6.7329	1	8 49 53.737	18 18 36.38	9006 NAINI TAL	8741	2 VG	4103

2-13 July 1963

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 2	9 13 48.6592	21 39 25.135	20 4 42.70	9011 VILLA DOLO	9754	3 LD	5102
7 2	9 13 52.6591	1	21 41 24.708	20 26 2.33	9011 VILLA DOLO	9754	4 LD	5103
7 2	9 15 24.1741	1	23 39 15.960	-10 16 40.18	9007 AREQUIPA	9183	5 LT	2030
7 3	2 29 35.1418	1	20 52 32.881	-2 28 34.82	9002 OLIFANTS	13319	6 DM	2808
7 3	2 29 43.1419	1	20 56 36.474	-1 49 56.57	9002 OLIFANTS	13319	7 DM	2809
7 3	9 2 29.6783	1	23 18 47.265	-9 23 0.85	9007 AREQUIPA	9195	3 LT	2031
7 3	9 2 33.6789	1	23 21 51.746	-8 52 59.04	9007 AREQUIPA	9195	4 LT	3456
7 4	2 17 15.1383	1	21 3 5.246	0 49 35.28	9002 OLIFANTS	13328	8 DM	2810
7 4	19 36 10.3606	1	20 30 41.192	13 39 22.51	9003 WOOMERA	14931	3 PK	5055
7 4	19 36 42.3592	1	20 42 2.042	16 0 27.28	9003 WOOMERA	14931	7 PK	5477
7 6	8 26 52.1803	1	0 25 25.780	13 20 39.00	9007 AREQUIPA	9224	9 LT	2033
7 8	0 36 37.8556	1	13 25 44.736	-35 40 16.03	9007 AREQUIPA	9246	6 LT	2034
7 8	0 36 45.8557	1	13 28 42.534	-36 2 14.93	9007 AREQUIPA	9246	7 LT	2035
7 8	1 30 17.5764	1	22 44 15.694	24 50 23.01	9002 OLIFANTS	13364	9 DM	2811
7 8	18 7 0.2365	1	17 59 39.687	-36 12 4.41	9002 OLIFANTS	13373	4 MY	2542
7 9	13 34 49.7740	1	13 54 33.027	-25 50 43.84	9003 WOOMERA	14983	7 PK	5057
7 9	13 35 5.7733	1	13 58 19.644	-26 15 30.33	9003 WOOMERA	14983	8 PK	5058
7 9	14 23 54.2597	1	0 49 30.184	-40 16 57.10	9012 MAUI	10201	7 DM	2564
7 10	0 11 18.1294	1	13 37 43.306	-41 55 26.03	9007 AREQUIPA	9271	5 LT	2037
7 10	0 12 35.9091	1	13 36 26.339	-15 52 48.21	9011 VILLA DOLO	9784	2 LD	5104
7 10	0 12 43.9091	1	13 39 8.498	-16 12 30.87	9011 VILLA DOLO	9784	3 LD	5105
7 10	17 42 53.3188	1	18 37 57.026	-34 51 41.90	9002 OLIFANTS	13387	10 MY	2563
7 10	19 52 23.8445	1	14 53 2.852	-41 48 49.74	9002 OLIFANTS	13390	3 MY	2545
7 10	19 52 47.8447	1	15 2 15.373	-42 23 38.65	9002 OLIFANTS	13390	6 MY	2546
7 10	23 58 57.3969	1	13 54 47.694	-45 29 17.29	9007 AREQUIPA	9281	4 DM	2038
7 10	23 59 5.3969	1	13 58 37.350	-45 45 20.52	9007 AREQUIPA	9281	5 DM	2039
7 11	17 29 25.7521	1	18 32 12.934	-34 50 21.87	9002 OLIFANTS	13400	4 MY	2547
7 11	17 29 57.7529	1	18 40 27.785	-34 22 13.25	9002 OLIFANTS	13400	6 MY	2548
7 11	19 39 28.4519	1	14 58 29.530	-43 2 15.17	9002 OLIFANTS	13405	3 MY	2549
7 11	19 40 16.4530	1	15 18 17.575	-44 0 26.48	9002 OLIFANTS	13405	6 MY	2550
7 11	23 48 7.7429	1	14 6 0.689	-22 28 17.31	9011 VILLA DOLO	9799	5 PK	2644
7 11	23 48 15.7429	1	14 9 11.229	-22 45 49.66	9011 VILLA DOLO	9799	6 PK	2645
7 12	12 58 33.6566	1	14 38 24.484	-32 41 18.79	9003 WOOMERA	14997	4 PK	5059
7 12	12 58 49.6562	1	14 43 41.714	-33 0 17.52	9003 WOOMERA	14997	6 PK	5060
7 12	17 16 59.2606	1	18 41 44.981	-33 49 17.13	9002 OLIFANTS	13417	3 MY	2551
7 12	17 17 31.2602	1	18 49 20.530	-33 17 17.75	9002 OLIFANTS	13417	5 MY	2552
7 12	19 28 34.8402	1	15 58 43.268	-45 41 47.71	9002 OLIFANTS	13419	4 MY	2553
7 12	19 28 42.8398	1	16 2 21.979	-45 44 59.19	9002 OLIFANTS	13419	5 MY	2554
7 12	23 34 8.3430	1	14 33 31.103	-50 58 52.35	9007 AREQUIPA	9303	5 DM	2040
7 12	23 34 16.3596	1	14 37 54.714	-51 6 49.00	9007 AREQUIPA	9303	6 DM	2041
7 13	1 50 3.4776	1	12 59 16.864	-24 0 10.92	9011 VILLA DOLO	9814	3 LD	2646
7 13	1 50 35.4774	1	13 7 49.483	-24 57 38.64	9011 VILLA DOLO	9814	5 LD	5106
7 13	12 46 42.3599	1	15 4 10.478	-34 32 44.64	9003 WOOMERA	15003	4 LD	5061
7 13	12 47 6.3592	1	15 13 0.845	-34 52 39.93	9003 WOOMERA	15003	7 LD	5062
7 13	12 33 40.5864	1	0 24 44.527	-27 0 44.79	9012 MAUI	10278	3 DM	2565

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 7 13	12 33 56.5865	1	0 32 52.033	-25 57 41.33	4	9012 MAUI	10278	7 LT	5113
7 13	17 4 19.9434	1	18 46 56.441	-32 50 43.30	4	9002 OLIFANTS	13428	7 MY	2555
7 13	19 16 10.8519	1	16 22 22.576	-46 3 40.11	4	9002 OLIFANTS	13432	4 MY	2556
7 13	19 16 42.8529	1	16 37 11.994	-45 58 3.45	4	9002 OLIFANTS	13432	6 MY	2857
7 13	23 22 48.5381	1	14 21 52.356	-26 25 36.61	4	9011 VILLA DOLO	9819	4 LD	4891
7 13	23 23 4.5375	1	14 29 0.465	-26 54 16.25	4	9011 VILLA DOLO	9819	6 LD	4892
7 14	1 37 55.6263	1	13 9 39.780	-26 29 53.27	4	9011 VILLA DOLO	9825	6 LD	5108
7 14	9 3 55.3351	1	23 52 3.624	-28 38 56.27	4	9010 JUPITER	10038	8 SU	2047
7 14	9 4 3.3352	1	23 56 23.856	-28 15 26.59	4	9010 JUPITER	10038	9 SU	2048
7 14	9 4 39.8486	1	22 5 7.607	11 5 44.47	4	9009 CURACAO	8367	4 MY	3257
7 14	19 4 15.0733	1	16 59 11.119	-45 26 47.67	4	9002 OLIFANTS	13439	3 MY	2558
7 14	19 4 39.0736	1	17 9 56.168	-45 7 6.96	4	9002 OLIFANTS	13439	6 MY	2559
7 14	23 9 58.9891	1	14 26 24.933	-27 49 59.43	4	9011 VILLA DOLO	9829	3 LD	2652
7 14	23 10 30.9884	1	14 41 23.584	-28 39 17.42	4	9011 VILLA DOLO	9829	7 LD	2653
7 15	1 24 50.0660	1	13 4 8.108	-27 12 1.66	4	9011 VILLA DOLO	9832	7 LD	2654
7 15	1 25 6.0659	1	13 9 9.193	-27 40 32.36	4	9011 VILLA DOLO	9832	9 LD	5109
7 15	1 25 44.0132	1	13 17 51.227	-53 59 32.71	4	9007 AREQUIPA	9331	7 DM	2859
7 15	16 24 13.0581	1	13 17 9.203	-34 35 31.36	4	9002 OLIFANTS	13442	3 MY	2560
7 15	16 24 21.0572	1	13 21 36.284	-34 56 7.99	4	9002 OLIFANTS	13442	4 MY	2561
7 15	18 51 50.5749	1	17 21 32.707	-44 17 1.09	4	9002 OLIFANTS	13445	5 GL	3330
7 15	18 52 14.5753	1	17 31 43.178	-43 46 40.98	4	9002 OLIFANTS	13445	8 GL	3331
7 15	21 1 9.3910	1	13 54 16.400	-31 39 40.91	4	9002 OLIFANTS	13448	4 GL	3332
7 15	21 1 41.3916	1	14 2 26.477	-32 6 51.22	4	9002 OLIFANTS	13448	6 GL	3333
7 15	21 50 15.7349	1	0 25 26.936	-24 37 18.10	4	9006 NAINI TAL	8311	6 DM	2812
7 15	21 50 23.7353	1	0 29 22.625	-24 12 24.17	4	9006 NAINI TAL	8311	7 DM	2813
7 15	22 57 48.7654	1	14 50 26.567	-29 55 16.53	4	9011 VILLA DOLO	9833	4 PG	2656
7 15	22 58 4.7650	1	14 58 8.574	-30 12 15.31	4	9011 VILLA DOLO	9833	6 PG	2657
7 16	1 13 14.3038	1	13 32 1.381	-56 19 5.15	4	9007 AREQUIPA	9346	4 DM	2043
7 16	1 13 22.3036	1	13 36 4.116	-56 33 2.19	4	9007 AREQUIPA	9346	5 DM	2044
7 16	12 57 22.6664	1	0 51 5.195	-10 40 32.25	4	9012 MAUI	10324	5 LT	2567
7 16	18 39 58.9810	1	17 54 47.435	-41 39 28.41	4	9002 OLIFANTS	13461	4 GL	3334
7 16	18 40 6.9810	1	17 57 49.587	-41 25 43.32	4	9002 OLIFANTS	13461	5 GL	3335
7 16	20 49 24.3639	1	14 12 24.919	-32 51 55.31	4	9002 OLIFANTS	13463	6 GL	3336
7 16	20 49 32.3640	1	14 14 40.822	-32 57 24.04	4	9002 OLIFANTS	13463	7 GL	3337
7 16	22 45 19.3339	1	15 6 10.500	-31 5 33.46	4	9011 VILLA DOLO	9841	2 LD	2658
7 16	22 45 27.3337	1	15 10 5.319	-31 10 49.52	4	9011 VILLA DOLO	9841	3 LD	5110
7 17	0 59 25.7371	1	13 8 27.129	-29 44 18.87	4	9011 VILLA DOLO	9845	5 DM	3342
7 17	1 0 5.7366	1	13 23 21.887	-30 50 20.89	4	9011 VILLA DOLO	9845	10 DM	3343
7 17	1 0 13.0201	1	13 31 49.640	-57 33 48.01	4	9007 AREQUIPA	9357	4 DM	2045
7 17	1 0 29.0200	1	13 40 39.805	-57 59 19.30	4	9007 AREQUIPA	9357	6 DM	2046
7 17	8 26 39.5353	1	23 57 14.661	-16 49 50.69	4	9010 JUPITER	10100	6 SU	2049
7 17	11 58 41.0007	1	16 56 56.290	-33 32 2.32	4	9003 WOODMERA	15013	5 LD	5063
7 17	11 58 49.0003	1	17 0 8.349	-33 23 4.95	4	9003 WOODMERA	15013	6 LD	7694
7 17	18 27 56.8335	1	18 19 13.947	-38 35 3.50	4	9002 OLIFANTS	13471	5 GL	3916
7 17	18 28 4.8346	1	18 21 53.505	-38 19 0.77	4	9002 OLIFANTS	13471	6 GL	3338

CATF Y	D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 18	0 47 52.6477	1	13 56 19.340	-59 40 37.76	4	9007 AREQUIPA	9372	6	VD 3396
	7 18	C 47 58.7700	1	13 42 20.971	-32 42 4.10	4	9011 VILLA DOLO	9858	5	DM 3344
	7 18	0 48 30.7692	1	13 56 4.681	-33 21 34.32	4	9011 VILLA DOLO	9858	9	DM 3345
	7 18	6 1 40.5553	1	1 17 53.678	6 51 56.30	4	9009 CJRACAO	8431	7	MY 3258
	7 19	3 44 34.2582	1	23 53 9.921	-18 52 46.55	4	9004 SAN FERVAN	9327	5	SU 1493
	7 19	3 44 58.2587	1	0 4 53.775	-17 58 41.01	4	9004 SAN FERVAN	9327	8	SU 1494
	7 19	8 2 C.9317	1	C 9 4.175	-7 56 1.48	4	9010 JUPITER	10143	4	SU 2125
	7 19	8 2 16.9320	1	C 17 2.546	-7 2 36.78	4	9010 JUPITER	10143	6	SU 2126
	7 19	10 12 49.9056	1	23 43 16.233	-14 42 54.59	4	9001 ORGAN PASS	11111	3	DM 2800
	7 19	12 20 27.5143	1	1 0 9.672	2 1 50.56	4	9012 MAJI	10356	4	LT 2568
	7 19	12 20 35.5139	1	1 3 27.644	2 25 59.03	4	9012 MAJI	10356	5	LT 2559
	7 19	14 34 46.9043	1	22 21 51.589	23 45 35.21	4	9012 MAJI	10360	7	LT 2570
	7 19	14 34 48.9042	1	22 23 1.777	23 58 7.74	4	9012 MAJI	10360	8	LT 2571
	7 19	20 13 34.0620	1	15 13 1.889	-33 5 46.96	4	9002 OLIFANTS	13503	4	GL 3339
	7 19	20 13 42.0629	1	15 15 54.575	-33 3 32.13	4	9002 OLIFANTS	13503	5	GL 3917
	7 20	0 23 42.4692	1	15 20 43.362	-61 49 54.43	4	9007 AREQUIPA	9403	7	MY 3398
	7 20	2 38 32.3089	1	13 30 27.025	-44 23 42.07	4	9007 AREQUIPA	9406	2	MY 3399
	7 20	2 39 20.3084	1	13 46 46.143	-45 9 5.19	4	9007 AREQUIPA	9406	5	MY 3400
	7 20	3 32 10.0324	1	23 56 37.415	-15 29 24.60	4	9004 SAN FERVAN	9352	6	SU 1495
	7 20	7 49 58.0846	1	0 23 33.787	-2 42 25.10	4	9010 JUPITER	10170	5	SU 2050
	7 20	7 50 14.0854	1	0 31 26.039	-1 51 37.98	4	9010 JUPITER	10170	7	SU 2051
	7 20	12 7 59.1513	1	0 59 30.996	5 17 4.94	4	9012 MAJI	10374	3	DM 2572
	7 20	12 8 7.1512	1	1 2 42.943	5 38 41.79	4	9012 MAJI	10374	5	DM 2573
	7 20	20 1 21.8995	1	15 31 28.722	-31 58 53.21	4	9002 OLIFANTS	13517	8	GL 3340
	7 20	20 1 37.8995	1	15 37 28.071	-31 47 58.05	4	9002 OLIFANTS	13517	10	GL 3341
	7 21	7 38 C.9911	1	C 40 47.888	2 28 31.12	4	9010 JUPITER	10188	7	SU 2052
	7 21	7 38 8.9916	1	0 44 39.239	2 51 29.11	4	9010 JUPITER	10188	8	SU 2053
	7 21	11 54 59.7102	1	0 47 13.751	7 2 17.71	4	9012 MAJI	10405	3	DM 2574
	7 21	11 55 19.7102	1	0 54 59.345	7 52 33.64	4	9012 MAJI	10405	8	DM 2575
	7 21	14 8 50.6272	1	22 3 30.816	26 2 28.78	4	9012 MAJI	10410	4	DM 2576
	7 21	14 8 58.6273	1	22 7 42.264	26 45 47.30	4	9012 MAJI	10410	8	DM 2577
	7 21	23 58 14.6532	1	15 54 43.955	-61 43 50.90	4	9007 AREQUIPA	9438	4	MY 3401
	7 21	23 58 22.6530	1	16 0 18.779	-61 30 5.65	4	9007 AREQUIPA	9438	5	MY 3402
	7 21	23 58 24.2726	1	14 50 10.676	-34 35 50.73	4	9011 VILLA DOLO	9897	8	DM 3346
	7 22	19 37 C.7262	1	16 10 52.423	-27 49 5.51	4	9002 OLIFANTS	13542	3	MY 3280
	7 22	19 37 40.7269	1	16 26 2.057	-26 46 3.93	4	9002 OLIFANTS	13542	8	MY 3281
	7 22	20 23 11.5447	1	C 33 56.017	0 26 48.77	4	9006 NAINI TAL	8334	6	DM 2814
	7 22	22 37 22.7407	10	22 23 52.007	14 26 42.08	4	9006 NAINI TAL	8341	5	DM 2815
	7 23	1 59 38.5359	1	13 39 48.943	-20 44 50.02	4	9011 VILLA DOLO	9922	2	DM 3347
	7 23	2 0 10.5358	1	13 49 57.319	-20 41 37.66	4	9011 VILLA DOLO	9922	6	DM 3348
	7 23	2 1 3.2239	1	13 56 52.676	-45 56 53.63	4	9007 AREQUIPA	9464	7	MY 3403
	7 23	2 1 35.2236	1	14 10 31.209	-46 8 17.09	4	9007 AREQUIPA	9464	11	MY 3404
	7 23	2 54 49.8387	1	0 6 58.960	-5 34 2.62	4	9004 SAN FERVAN	9421	7	SU 2123
	7 23	7 12 56.4140	1	23 28 49.841	45 48 50.93	4	9009 CJRACAO	8499	5	MY 3269
	7 23	7 13 C.4141	1	23 31 30.768	46 0 27.73	4	9009 CJRACAO	8499	6	MY 3270

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	J3S.VO.
1963 7 23	9 22 54.6711	1	23 55 39.696	- 0 34 16.35	9001 ORGAN PASS	11166	2 DM	2801
7 23	9 22 58.6722	1	23 57 31.868	- 0 24 21.82	9001 ORGAN PASS	11166	3 DM	2802
7 23	11 29 41.3784	1	0 40 45.150	12 1 22.25	9012 MAUI	10434	3 DM	5497
7 23	11 30 1.3785	1	0 48 1.666	12 41 13.52	9012 MAUI	10434	8 DM	2579
7 23	12 43 37.7694	1	22 12 36.191	32 12 33.56	9012 MAUI	10438	5 VD	3414
7 23	19 25 34.9133	1	16 46 38.947	-23 19 21.78	9002 OLIFANTS	13563	4 MY	3282
7 23	19 25 58.9128	1	16 55 18.781	-22 29 55.66	9002 OLIFANTS	13563	7 MY	3283
7 23	20 10 36.1734	1	0 33 5.854	3 14 20.31	9006 NAINI TAL	8362	3 DM	2816
7 23	20 11 8.1748	1	0 45 44.800	4 22 0.07	9006 NAINI TAL	8362	7 DM	2817
7 23	23 33 27.4940	1	15 23 30.465	-32 37 53.41	9011 VILLA DOLO	9938	2 DM	3349
7 23	23 33 35.4938	1	15 27 49.234	-32 26 55.37	9011 VILLA DOLO	9938	3 DM	3350
7 24	0 34 56.1748	1	21 50 24.946	16 50 13.06	9008 SHIRAZ	13158	5 LT	3415
7 24	1 48 30.5043	1	14 12 7.818	-19 19 39.24	9011 VILLA DOLO	9945	7 DM	3351
7 24	1 48 38.5042	1	14 14 52.118	-19 15 10.52	9011 VILLA DOLO	9945	8 DM	3352
7 24	1 49 12.5864	1	14 25 25.831	-46 0 45.69	9007 AREQUIPA	9485	9 VD	3405
7 24	7 0 40.9125	1	23 49 2.692	48 3 56.87	9009 CJRACAD	8512	6 MY	3271
7 24	7 0 44.9129	1	23 51 44.391	48 12 21.74	9009 CJRACAD	8512	7 MY	3272
7 24	9 10 40.7795	1	0 6 56.978	3 16 54.21	9001 ORGAN PASS	11184	5 DM	2803
7 24	9 10 48.7795	1	0 10 38.450	3 34 48.61	9001 ORGAN PASS	11184	7 DM	2804
7 24	9 15 58.1258	1	20 35 6.428	53 11 11.53	9009 CJRACAD	8517	2 MY	3273
7 24	9 16 18.1252	1	20 40 54.989	55 0 8.42	9009 CURACAD	8517	7 MY	3274
7 24	11 17 21.3928	1	0 45 6.106	14 50 49.65	9012 MAUI	10456	3 SU	3011
7 24	11 17 29.3929	1	0 47 54.367	15 4 20.39	9012 MAUI	10456	5 SU	3012
7 24	13 31 18.2001	1	22 28 38.580	36 16 15.15	9012 MAUI	10457	6 SU	3013
7 24	13 31 22.2000	1	22 31 1.641	36 33 31.00	9012 MAUI	10457	8 SU	3014
7 24	19 13 49.2146	1	17 12 48.318	-18 32 49.94	9002 OLIFANTS	13579	3 MY	3284
7 24	19 14 5.2136	1	17 18 13.327	-17 55 10.98	9002 OLIFANTS	13579	5 MY	3285
7 25	0 22 38.8954	1	22 2 44.072	20 55 38.68	9008 SHIRAZ	13181	2 LT	3416
7 25	0 22 42.8954	1	22 4 37.741	21 10 41.15	9008 SHIRAZ	13181	3 LT	3417
7 25	2 29 46.1975	1	0 11 50.186	0 17 28.66	9004 SAN FERNAN	9465	8 SU	1497
7 25	6 47 2.2806	1	0 24 11.717	12 19 8.51	9010 JPIITER	10210	6 SU	2054
7 25	6 47 26.2814	1	0 34 20.575	13 4 11.07	9010 JPIITER	10210	9 SU	2861
7 25	8 58 1.5529	1	0 6 59.279	5 58 0.35	9001 ORGAN PASS	11206	4 DM	2805
7 25	8 58 9.5529	1	0 10 34.952	6 14 14.83	9001 ORGAN PASS	11206	6 DM	2806
7 25	9 1 28.2498	1	22 6 51.838	28 24 30.93	9010 JPIITER	10217	5 SU	2056
7 25	9 1 36.2498	1	22 11 2.064	28 58 16.46	9010 JPIITER	10217	6 SU	2057
7 25	11 4 44.7049	1	0 43 48.543	16 55 55.60	9012 MAUI	10476	3 SU	3919
7 25	11 5 0.7049	1	0 49 13.507	17 18 47.59	9012 MAUI	10476	5 SU	3016
7 25	12 33 1.1381	1	16 36 45.206	- 4 53 15.48	9003 WOOMERA	15068	5 LD	5055
7 25	12 33 9.1379	1	16 39 10.918	- 4 37 23.55	9003 WOOMERA	15068	6 LD	5066
7 25	13 18 46.9417	1	22 39 32.285	39 5 38.20	9012 MAUI	10481	6 SU	3017
7 25	13 18 50.9417	1	22 42 0.203	39 20 48.72	9012 MAUI	10481	7 SU	3018
7 25	23 8 59.2842	1	16 8 9.617	-27 45 45.02	9011 VILLA DOLO	9981	3 DM	3353
7 25	23 9 31.2833	1	16 23 1.401	-26 30 25.37	9011 VILLA DOLO	9981	7 DM	3354
7 26	0 9 59.9763	1	22 6 38.189	23 35 1.69	9008 SHIRAZ	13207	4 LT	3418

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 26	0 10 7.9764	22 10 35.015	24 4 2.27	4	9008 SHIRAZ	13207	6 LT	3419
	7 26	1 23 34.7825	14 26 17.407	-16 1 17.10	4	9011 VILLA DOLO	9985	7 DM	3355
	7 26	1 23 58.7824	14 35 8.874	-15 34 32.72	4	9011 VILLA DOLO	9985	10 DM	3356
	7 26	1 24 5.2049	14 46 50.987	-44 48 42.51	4	9007 AREQUIPA	9500	3 VD	3406
	7 26	1 24 29.2044	14 58 51.926	-44 27 10.63	4	9007 AREQUIPA	9500	6 VD	3407
	7 26	2 16 43.4023	0 1 35.473	2 6 8.73	4	9004 SAN FERNAN	9488	5 SU	1498
	7 26	2 17 7.4027	0 11 56.518	2 48 5.50	4	9004 SAN FERNAN	9488	8 SU	1499
	7 26	6 35 40.0166	0 10 19.317	50 14 26.55	4	9009 CURACAO	8543	3 MY	3276
1963	7 26	6 35 44.0167	0 12 51.585	50 18 40.00	4	9009 CURACAO	8543	4 MY	3277
	7 26	8 49 30.4943	22 35 35.104	33 37 34.51	4	9010 JUPITER	10221	4 SU	2058
	7 26	10 51 41.5350	0 34 12.020	18 15 52.34	4	9012 MAJI	10488	3 SU	3019
	7 26	10 51 45.5350	0 35 31.230	18 21 9.84	4	9012 MAJI	10488	4 SU	3020
	7 26	13 6 42.3045	23 9 1.415	42 56 11.48	4	9012 MAJI	10491	4 SU	3021
	7 26	13 6 50.3045	23 14 23.933	43 19 14.37	4	9012 MAJI	10491	6 SU	3022
	7 26	16 28 5.7191	17 29 6.313	-32 59 36.44	4	9002 OLIFANTS	13618	5 PG	5069
	7 26	16 28 13.7186	17 31 47.211	-32 33 24.52	4	9002 OLIFANTS	13618	6 PG	5070
1963	7 26	18 50 28.6315	18 0 2.128	-7 19 34.70	4	9002 OLIFANTS	13626	5 PG	5071
	7 26	18 50 36.6315	18 2 17.215	-6 59 54.68	4	9002 OLIFANTS	13626	6 PG	5072
	7 26	21 43 41.7351	0 33 22.461	13 22 54.77	4	9008 SHIRAZ	13225	2 LT	3420
	7 26	23 57 41.1394	22 22 6.753	27 16 52.20	4	9008 SHIRAZ	13228	4 LT	3422
	7 26	23 57 49.1398	22 26 25.819	27 44 5.43	4	9008 SHIRAZ	13228	6 LT	3423
	7 27	1 11 30.4936	14 42 25.299	-13 20 42.30	4	9011 VILLA DOLO	10010	7 DM	3357
	7 27	1 11 46.4933	14 48 29.591	-12 57 25.50	4	9011 VILLA DOLO	10010	9 DM	3358
	7 27	1 11 58.1296	15 11 22.853	-43 9 2.34	4	9007 AREQUIPA	9521	5 VD	3408
1963	7 27	1 12 6.1293	15 15 26.966	-42 57 18.70	4	9007 AREQUIPA	9521	6 VD	3409
	7 27	6 21 46.9969	0 25 45.473	16 46 50.39	4	9010 JUPITER	10237	4 SU	2059
	7 27	6 21 54.2820	23 35 34.064	49 36 16.96	4	9009 CURACAO	8552	2 MY	3278
	7 27	6 21 54.9975	0 28 55.058	16 57 56.01	4	9010 JUPITER	10237	5 SU	2060
	7 27	8 37 14.7953	20 31 20.754	54 48 0.18	4	9009 CURACAO	8555	4 MY	3279
	7 27	10 38 50.6395	0 29 24.899	19 48 16.53	4	9012 MAJI	10503	5 SU	3023
	7 27	12 9 24.1273	17 13 55.044	4 35 24.75	4	9003 WOOMERA	15106	3 LD	5067
	7 27	12 9 48.1271	17 20 37.791	5 25 24.17	4	9003 WOOMERA	15106	6 LD	5068
1963	7 27	21 30 46.3822	0 27 20.721	15 0 10.11	4	9008 SHIRAZ	13242	5 LT	3424
	7 27	21 30 50.3824	0 28 55.626	15 5 19.65	4	9008 SHIRAZ	13242	6 LT	3425
	7 27	22 45 31.8572	17 5 40.832	-18 21 16.30	4	9011 VILLA DOLO	10023	6 VD	3447
	7 27	22 45 51.0588	17 12 8.611	-17 31 46.22	4	9011 VILLA DOLO	10023	8 VD	3448
	7 27	23 45 5.4003	22 30 25.403	29 45 57.67	4	9008 SHIRAZ	13252	4 LT	3426
	7 27	23 45 17.4005	22 37 9.817	30 22 57.40	4	9008 SHIRAZ	13252	7 LT	3427
	7 28	0 59 2.4364	14 49 38.651	-10 48 20.35	4	9011 VILLA DOLO	10031	3 VD	3920
	7 28	0 59 10.4364	14 52 44.718	-10 34 49.25	4	9011 VILLA DOLO	10031	4 VD	3921
1963	7 28	0 59 41.8265	15 31 11.150	-40 59 5.96	4	9007 AREQUIPA	9543	6 VD	3410
	7 28	0 59 57.8265	15 39 16.781	-40 25 45.61	4	9007 AREQUIPA	9543	8 VD	3411
	7 28	4 5 5.6655	22 5 59.755	13 51 17.36	4	9004 SAN FERNAN	9551	4 SU	2124
	7 28	4 5 29.6655	22 16 21.412	14 40 17.72	4	9004 SAN FERNAN	9551	7 SU	1501
	7 28	10 25 50.5577	0 22 22.446	21 5 6.13	4	9012 MAJI	10506	5 SU	3024

DATE			TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS.NO.			
Y	M	D	H	M	S	MS	H	M	S	D	M	S							
1963	7	28	10	25	54.5578	1	0	23	37.086	21	9	14.06	4	9012	MAUI	10506	6	SU	3025
	7	28	12	40	16.3063	1	22	43	56.738	43	8	12.32	4	9012	MAUI	10507	3	SU	3026
	7	28	12	40	32.3064	1	22	53	34.831	43	48	45.44	4	9012	MAUI	10507	7	SU	3027
	7	28	14	57	50.0415	1	21	18	41.719	51	15	4.03	4	9012	MAUI	10514	3	SU	3433
	7	28	14	58	10.0416	1	21	27	51.242	52	50	18.34	4	9012	MAUI	10514	8	SU	3434
	7	28	23	31	52.5949	1	22	19	43.633	30	16	36.78	4	9008	SHIRAZ	13256	5	LT	3428
	7	28	23	32	0.5949	1	22	23	57.626	30	39	41.51	4	9008	SHIRAZ	13256	7	LT	4894
	7	29	0	48	41.0549	1	16	26	9.598	-34	36	22.55	4	9007	AREQUIPA	9563	9	VD	3412
7	29	0	48	57.0545	1	16	33	16.424	-33	47	15.33	4	9007	AREQUIPA	9563	11	VD	3413	
	7	29	5	56	44.0021	1	23	55	3.619	51	4	59.91	4	9009	CJRCACD	8579	9	DM	2562
	7	29	12	27	25.3026	1	22	46	55.217	44	15	46.04	4	9012	MAUI	10528	5	SU	3435
	7	29	12	27	33.3028	1	22	51	38.366	44	33	15.33	4	9012	MAUI	10528	7	SU	3436
7	29	14	44	50.1988	1	21	17	13.732	51	18	15.57	4	9012	MAUI	10534	3	SU	3437	
	7	29	14	45	14.1987	1	21	28	24.020	53	3	45.65	4	9012	MAUI	10534	6	SU	3438
	7	29	16	48	45.5580	1	23	23	39.426	15	58	0.86	4	9005	TOKYO	8710	9	SU	1508
	7	29	16	49	1.5586	1	23	31	23.439	16	20	21.76	4	9005	TOKYO	8710	11	SU	1509
7	29	23	18	45.8803	1	22	13	37.754	31	8	43.58	4	9008	SHIRAZ	13260	7	LT	3430	
	7	30	3	39	25.4280	1	22	6	26.529	17	27	32.33	4	9004	SAN FERNAN	9584	5	SU	1502
	7	30	3	39	41.4278	1	22	13	21.418	17	56	59.43	4	9004	SAN FERNAN	9584	7	SU	1503
	7	30	5	42	52.7509	1	0	8	50.336	21	0	39.58	4	9010	JJPIITER	10292	5	SU	2061
7	30	5	43	8.7513	1	0	14	32.769	21	14	49.90	4	9010	JJPIITER	10292	7	SU	2062	
	7	30	7	56	49.2267	1	21	59	30.314	35	30	41.00	4	9010	JJPIITER	10296	4	SU	2063
	7	30	7	57	13.2271	1	22	11	47.602	36	37	43.78	4	9010	JJPIITER	10296	7	SU	2054
	7	30	12	15	13.9691	1	23	14	13.427	46	21	44.88	4	9012	MAUI	10552	7	SU	3439
7	30	12	15	21.9690	1	23	19	3.276	46	32	59.55	4	9012	MAUI	10552	9	SU	3440	
	7	30	14	31	47.8938	1	21	15	28.512	51	19	35.14	4	9012	MAUI	10556	3	SU	3441
	7	30	14	31	55.8938	1	21	19	4.644	51	51	44.13	4	9012	MAUI	10556	5	SU	3442
	7	30	20	51	46.1026	1	0	8	54.950	19	4	50.33	4	9008	SHIRAZ	13277	3	LT	3431
7	30	20	52	10.1031	1	0	17	23.425	19	23	47.91	4	9008	SHIRAZ	13277	6	LT	3432	
	7	31	1	12	52.3970	1	23	56	44.351	12	0	16.58	4	9004	SAN FERNAN	9608	9	SU	1504
	7	31	1	13	0.3971	1	23	59	42.811	12	7	39.01	4	9004	SAN FERNAN	9608	10	SU	1505
	7	31	3	26	14.4691	1	21	59	10.421	18	32	31.97	4	9004	SAN FERNAN	9614	3	SU	1506
7	31	3	26	38.4699	1	22	9	18.727	19	14	9.42	4	9004	SAN FERNAN	9614	6	SU	1507	
	7	31	7	44	48.4801	1	22	29	59.263	39	2	3.33	4	9010	JJPIITER	10322	5	SU	3009
	7	31	7	45	12.4808	1	22	43	36.770	39	53	25.38	4	9010	JUPIITER	10322	8	SU	3010
	7	31	9	54	48.2606	1	21	49	52.105	26	30	38.70	4	9001	ORGAN PASS	11216	7	DM	2807
7	31	12	1	15.8345	1	22	40	3.907	45	24	48.56	4	9012	MAUI	10574	5	SU	3443	
	7	31	12	1	19.8345	1	22	42	16.512	45	31	36.48	4	9012	MAUI	10574	6	SU	3444
	7	31	14	18	46.4547	1	21	14	54.806	51	31	32.27	4	9012	MAUI	10580	3	SU	3445
	7	31	14	18	50.4547	1	21	16	43.341	51	46	20.09	4	9012	MAUI	10580	4	SU	3446
8	1	7	31	9.2660	1	22	9	12.618	38	29	28.23	4	9010	JUPIITER	10337	6	SC	781	
	8	1	7	31	25.2660	1	22	17	30.797	39	3	55.85	4	9010	JUPIITER	10337	8	SC	782
	8	1	14	6	5.3906	1	21	24	50.987	52	57	34.55	4	9012	MAUI	10606	3	RD	909
	8	1	14	6	13.3903	1	21	28	50.266	53	24	33.21	4	9012	MAUI	10606	5	RD	910
8	1	22	39	26.8948	1	22	2	26.624	33	52	29.79	4	9008	SHIRAZ	13316	2	EM	9541	

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 1	22 39 42.8954	1	22 10 9.865	34 24 17.78	4	9008 SHIRAZ	13316	4 EM	9542
8 2	7 14 21.8471	1	23 32 15.372	19 13 18.44	4	9001 ORGAN PASS	11234	7 KA	9523
8 2	7 15 1.8473	1	23 46 15.474	19 41 44.55	4	9001 ORGAN PASS	11234	12 KA	9524
8 2	7 17 45.8761	1	21 58 41.208	38 39 24.85	4	9010 JJPITER	10362	3 JV	1593
8 2	7 18 1.8763	1	22 6 37.481	39 11 38.83	4	9010 JJPITER	10362	5 JV	784
8 2	9 28 13.6887	1	21 34 35.316	27 54 28.62	4	9001 ORGAN PASS	11241	3 KA	9525
8 2	9 28 45.6884	1	21 48 4.087	28 56 50.16	4	9001 ORGAN PASS	11241	7 KA	9526
8 2	9 37 57.8616	1	22 31 15.623	44 43 14.57	4	9010 JJPITER	10371	3 RD	793
8 2	11 34 32.5172	1	22 19 54.347	45 45 11.33	4	9012 MAJI	10612	8 RD	911
8 3	2 46 46.1653	1	21 44 46.592	21 46 33.75	4	9004 SAN FERNAN	9687	2 NG	408
8 3	2 47 2.1654	1	21 51 7.185	22 9 19.96	4	9004 SAN FERNAN	9687	4 KA	409
8 3	9 24 37.7032	1	22 19 52.637	43 50 27.09	4	9010 JJPITER	10397	3 JV	6135
8 3	9 24 53.7031	1	22 28 48.805	44 22 42.12	4	9010 JJPITER	10397	5 JV	786
8 4	9 18 3.0766	1	0 11 24.279	68 54 21.90	4	9009 CJRACAO	8674	1 AC	1069
8 4	22 19 28.6235	1	15 36 48.019	16 27 34.14	4	9011 VILLA DOL	10133	6 RD	913
8 5	8 47 47.5077	1	21 5 11.835	29 10 44.14	4	9001 ORGAN PASS	11255	5 KA	9527
8 5	8 47 55.5075	1	21 8 12.135	29 24 8.86	4	9001 ORGAN PASS	11255	7 KA	9528
8 5	23 6 43.0716	1	15 32 42.406	19 16 10.27	4	9011 VILLA DOL	10150	8 RD	914
8 5	23 7 15.0703	1	15 45 27.253	20 24 16.76	4	9011 VILLA DOL	10150	12 RD	915
8 6	8 13 47.6738	1	19 40 19.643	11 52 25.33	4	9012 MAJI	10656	3 RD	912
8 6	10 36 35.4169	1	20 1 5.988	39 40 54.84	4	9012 MAJI	10662	8 RD	907
8 6	12 0 19.5914	1	21 20 48.548	52 58 34.82	4	9012 MAJI	10667	3 RD	908
8 7	8 0 37.0852	1	19 37 11.011	13 49 15.04	4	9012 MAJI	10679	1 VG	558
8 7	8 0 57.0851	1	19 43 1.280	14 35 43.41	4	9012 MAJI	10679	6 VG	422
8 7	10 22 45.6000	1	19 46 31.773	39 42 55.57	4	9012 MAJI	10681	6 EM	423
8 7	10 22 49.6001	1	19 47 57.152	39 51 30.27	4	9012 MAJI	10681	7 EM	424
8 8	5 45 48.3780	1	20 9 4.946	14 25 56.80	4	9001 ORGAN PASS	11288	4 KA	9529
8 8	5 45 56.3779	1	20 11 29.863	14 40 17.71	4	9001 ORGAN PASS	11288	6 KA	9530
8 8	7 46 39.8421	1	19 20 14.196	13 52 23.72	4	9012 MAJI	10706	2 FI	9047
8 8	7 46 55.8420	1	19 25 1.087	14 30 59.15	4	9012 MAJI	10706	6 FI	9048
8 8	8 7 37.9811	1	20 48 30.503	31 3 53.85	4	9001 ORGAN PASS	11292	4 KA	9531
8 8	8 7 45.9813	1	20 51 27.385	31 14 47.78	4	9001 ORGAN PASS	11292	6 KA	9532
8 8	10 9 23.7980	1	19 42 9.333	40 47 10.38	4	9012 MAJI	10710	2 FI	9049
8 8	10 30 5.2627	1	22 17 6.775	29 56 53.51	4	9001 ORGAN PASS	11303	3 KA	9533
8 8	10 30 15.2627	1	22 21 20.122	29 57 31.73	4	9001 ORGAN PASS	11303	8 KA	9534
8 8	12 33 17.6728	1	21 3 50.387	52 1 22.94	4	9012 MAJI	10716	3 FI	9050
8 8	12 33 25.6728	1	21 7 30.380	52 14 47.71	4	9012 MAJI	10716	5 FI	9051
8 8	23 5 6.9817	1	20 22 51.623	12 10 30.55	4	9004 SAN FERNAN	9814	1 KA	557
8 8	23 5 22.9819	1	20 27 37.135	12 35 7.89	4	9004 SAN FERNAN	9814	3 KA	411
8 9	3 20 17.6195	1	19 59 56.566	19 18 1.01	4	9010 JJPITER	10514	7 JV	787
8 9	3 48 48.6188	1	22 37 1.321	21 15 32.26	4	9004 SAN FERNAN	9828	3 KA	4013
8 9	5 32 47.5518	1	20 10 19.009	16 13 4.48	4	9001 ORGAN PASS	11311	3 KA	9535
8 9	5 32 59.5530	1	20 14 1.526	16 33 27.88	4	9001 ORGAN PASS	11311	6 KA	9536
8 9	7 33 46.9878	1	19 22 24.539	16 26 24.94	4	9012 MAJI	10732	3 FI	9052
8 9	7 34 2.9878	1	19 27 18.834	17 3 16.65	4	9012 MAJI	10732	7 FI	9053

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	DBS.VO.
1963	8 9	7 55	1.2834	1	1	9001	11317	2	9537
	8 9	7 55	17.2835	1	4	9001	ORGAN PASS	KA	9538
	8 9	9 56	22.4227	1	4	9012	MAUI	4	87
	8 9	9 56	30.4228	1	4	9012	MAUI	6	9055
	8 9	12 20	29.2138	1	4	9012	MAUI	4	88
	8 9	12 20	45.2138	1	4	9012	MAUI	8	9057
	8 9	14 44	13.9165	1	4	9012	MAUI	2	89
	8 9	14 44	21.9165	1	4	9012	MAUI	4	90
	8 10	7 20	59.8035	1	4	9012	MAUI	6	9059
	8 10	7 21	7.8034	1	4	9012	MAUI	8	9060
	8 10	12 7	21.6949	1	4	9012	MAUI	4	91
	8 10	12 7	25.6948	1	4	9012	MAUI	5	92
	8 10	14 31	11.7267	1	4	9012	MAUI	3	1010
	8 10	16 26	39.8952	1	4	9005	TOKYO	1	659
	8 10	16 27	3.8952	1	4	9005	TOKYO	4	670
	8 10	18 15	37.3625	1	4	9008	SHIRAZ	1	9543
	8 10	18 15	45.3630	1	4	9008	SHIRAZ	2	9544
	8 10	20 37	39.9254	1	4	9008	SHIRAZ	4	9545
	8 10	23 1	0.6278	1	4	9008	SHIRAZ	4	9547
	8 10	23 1	16.6284	1	4	9008	SHIRAZ	6	251
	8 11	0 23	16.4365	1	4	9007	AREQUIPA	2	556
	8 11	0 32	3.2858	1	4	9009	CJRACAD	3	1070
	8 11	0 32	7.2859	1	4	9009	CJRACAD	4	1071
	8 11	2 53	35.4311	1	4	9010	JUPITER	6	2461
	8 11	2 53	51.4317	1	4	9010	JUPITER	8	788
	8 11	2 55	0.4705	1	4	9009	CJRACAD	6	1073
	8 11	20 24	39.7458	1	4	9008	SHIRAZ	3	9549
	8 11	20 24	55.7467	1	4	9008	SHIRAZ	5	252
	8 11	22 48	36.3088	1	4	9008	SHIRAZ	4	253
	8 11	22 48	44.3087	1	4	9008	SHIRAZ	6	559
	8 12	0 18	41.1250	1	4	9009	CJRACAD	5	762
	8 12	0 19	1.1251	1	4	9009	CJRACAD	10	763
	8 12	6 53	48.8965	1	4	9012	MAUI	2	1011
	8 12	6 53	56.8974	1	4	9012	MAUI	4	1012
	8 12	7 25	51.7757	1	4	9010	JUPITER	7	789
	8 12	9 37	19.8481	1	4	9001	ORGAN PASS	4	9539
	8 12	9 37	31.8480	1	4	9001	ORGAN PASS	7	9540
	8 12	13 38	42.3173	1	4	9005	TOKYO	4	671
	8 12	13 38	58.3177	1	4	9005	TOKYO	6	672
	8 12	22 34	53.2230	1	4	9008	SHIRAZ	1	560
	8 12	22 35	9.2237	1	4	9008	SHIRAZ	3	9554
	8 13	0 5	40.8477	1	4	9009	CJRACAD	4	1076
	8 13	2 28	29.8742	1	4	9009	CJRACAD	9	1077
	8 13	2 29	9.8751	1	4	9009	CJRACAD	4	1078
	8 13	2 29	9.8751	1	4	9009	CJRACAD	9	1079

DATE Y M D	TIME (A-L)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			RMS S	STATION	FRAME NO.	MS	OBS.-NO.			
	H	M	S		H	M	S	D	M	S								
1963	8	13	4 49	3.1576	1	20	24	44.561	41	44	41.52	4	9010	JUPITER	10587	3	TA	3626
	8	13	4 49	35.1584	1	20	38	8.160	42	11	53.67	4	9010	JUPITER	10587	7	JV	790
	8	13	9 23	41.8783	1	21	58	38.283	28	33	51.36	4	9001	ORGAN PASS	11348	5	FI	9645
	8	13	9 23	49.8783	1	22	1	37.941	28	29	51.02	4	9001	ORGAN PASS	11348	7	FI	9646
	8	13	19 57	19.8791	1	20	21	30.173	37	57	32.88	4	9008	SHIRAZ	13475	2	AC	561
	8	13	19 57	42.8800	1	20	31	9.586	38	17	6.92	4	9008	SHIRAZ	13475	5	AC	562
	8	13	23 54	8.2929	1	18	55	1.056	26	42	26.58	4	9009	CJRACAO	8748	4	RD	1575
	8	13	23 54	20.2831	1	18	59	9.548	27	5	51.47	4	9009	CJRACAO	8748	7	RD	1081
	8	14	4 36	18.4284	1	20	38	10.173	42	41	9.84	4	9010	JUPITER	10609	7	RD	791
	8	14	9 21	45.8073	1	23	11	0.499	14	41	27.64	4	9010	JUPITER	10614	3	RD	792
	8	14	19 45	2.6220	1	20	45	24.055	39	3	18.04	4	9008	SHIRAZ	13493	5	AM	9557
	8	14	19 45	10.6225	1	20	48	42.655	39	6	28.15	4	9008	SHIRAZ	13493	6	AM	86
	8	14	22 7	43.4656	1	22	0	20.271	34	20	13.34	4	9008	SHIRAZ	13499	2	FI	93
	8	14	22 8	23.4669	1	22	16	19.291	33	53	52.64	4	9008	SHIRAZ	13499	7	FI	9659
	8	15	0 7	30.9518	1	21	10	40.873	28	15	55.04	4	9004	SAN FERNAN	9865	1	KA	413
	8	15	0 7	54.9521	1	21	19	30.936	28	16	33.79	4	9004	SAN FERNAN	9865	4	KA	414
	8	15	2 2	10.4305	1	18	51	6.458	53	52	37.43	4	9009	CJRACAO	8762	4	RD	1082
	8	15	2 2	30.4306	1	19	0	40.133	54	15	51.77	4	9009	CJRACAO	8762	9	RD	1083
	8	15	6 14	41.2452	1	19	2	29.936	26	8	25.04	4	9012	MAJI	10777	9	JV	921
	8	15	6 53	10.5983	1	23	21	20.851	53	27	51.99	4	9009	CJRACAO	8766	6	RD	1084
	8	15	8 37	7.6528	1	19	50	6.811	49	11	38.19	4	9012	MAUI	10782	5	JV	922
	8	15	9 8	24.0772	1	23	2	49.150	14	9	49.57	4	9010	JUPITER	10623	4	FI	9650
	8	15	9 15	48.4099	1	0	4	13.933	21	9	37.59	4	9009	CJRACAO	8771	5	SC	1086
	8	15	9 16	4.4103	1	0	10	34.115	20	23	5.17	4	9009	CJRACAO	8771	9	SC	1087
	8	15	12 24	20.8830	1	22	45	44.549	34	44	37.31	4	9012	MAUI	10790	3	EM	923
	8	15	12 24	40.8828	1	22	53	39.873	34	20	37.47	4	9012	MAUI	10790	8	EM	924
	8	15	14 57	52.0195	1	19	38	1.243	20	30	12.85	4	9006	NAINI TAL	8425	3	EM	9918
	8	15	14 58	8.0200	1	19	43	29.659	20	55	2.36	4	9006	NAINI TAL	8425	5	EM	9919
	8	15	21 54	54.9430	1	22	9	46.404	33	20	18.95	4	9008	SHIRAZ	13518	3	FI	9660
	8	15	21 55	18.9440	1	22	19	11.731	32	58	46.29	4	9008	SHIRAZ	13518	6	FI	9661
	8	15	23 54	40.1984	1	21	19	7.820	28	14	17.46	4	9004	SAN FERNAN	9880	5	KA	415
	8	15	23 54	56.1985	1	21	24	59.953	28	11	18.22	4	9004	SAN FERNAN	9880	7	KA	416
	8	16	0 16	30.4320	1	22	58	32.980	8	33	50.84	4	9008	SHIRAZ	13523	3	KA	745
	8	16	0 17	2.4332	1	23	8	24.780	7	18	32.53	4	9008	SHIRAZ	13523	7	KA	746
	8	16	6 0	52.9835	1	18	43	50.777	26	19	29.60	4	9012	MAUI	10796	4	AC	1013
	8	16	6 1	8.9836	1	18	50	13.266	26	51	51.13	4	9012	MAUI	10796	8	AC	1014
	8	16	6 31	22.9965	1	21	23	18.262	39	9	2.55	4	9010	JUPITER	10626	3	FI	9651
	8	16	6 31	38.9967	1	21	29	41.285	39	5	1.33	4	9010	JUPITER	10626	5	FI	9652
	8	16	6 40	47.2041	1	23	42	47.278	51	3	49.37	4	9009	CJRACAO	8780	4	SC	1088
	8	16	8 23	33.6155	1	19	41	21.908	49	48	58.07	4	9012	MAUI	10800	6	VG	1015
	8	16	8 44	19.0564	1	22	1	23.423	26	31	46.86	4	9001	ORGAN PASS	11366	4	FI	563
	8	16	8 44	35.0563	1	22	7	7.793	26	16	9.77	4	9001	ORGAN PASS	11366	8	FI	9647
	8	16	8 54	46.8507	1	22	50	20.952	14	4	58.65	4	9010	JUPITER	10630	5	FI	9662
	8	16	9 2	42.9273	1	23	58	31.978	19	26	5.07	4	9009	CJRACAO	8782	7	SC	1090
	8	16	12 10	41.9253	1	22	33	23.135	34	0	33.16	4	9012	MAUI	10805	4	RD	1007

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 16	13 10 57.9253	1	22 39 24.860	33 41 36.04	9012 MAUI	10805	8 RD	1008
8 16	21 19 11.8732	1	20 2 57.108	19 23 18.81	9004 SAN FERNAN	9894	4 KA	417
8 16	21 19 19.8730	1	20 5 40.715	19 31 20.02	9004 SAN FERNAN	9894	5 TA	418
8 16	21 41 52.1511	1	22 13 24.939	32 19 44.72	9008 SHIRAZ	13534	8 KA	3968
8 16	21 42 24.1520	1	22 25 41.268	31 44 7.21	9008 SHIRAZ	13534	7 KA	748
8 16	23 40 52.5833	1	21 6 40.801	28 13 17.70	9004 SAN FERNAN	9902	3 NG	419
8 16	23 41 0.5832	1	21 9 37.029	28 11 52.25	9004 SAN FERNAN	9902	4 NG	420
8 17	0 2 42.9755	1	22 43 35.566	8 58 51.86	9008 SHIRAZ	13542	2 TA	749
8 17	0 3 6.9766	1	22 50 36.659	8 6 35.07	9008 SHIRAZ	13542	5 TA	750
8 17	2 1 48.9191	1	21 50 26.623	19 9 28.91	9004 SAN FERNAN	9905	2 SC	704
8 17	2 2 4.9189	1	21 55 37.927	18 52 40.11	9004 SAN FERNAN	9905	4 SC	1591
8 17	6 26 50.0096	1	23 20 11.012	50 36 14.85	9009 CJRACAD	8794	6 SC	1091
8 17	6 27 6.0097	1	23 27 21.053	50 14 40.96	9009 CJRACAD	8794	10 SC	1092
8 17	10 35 13.3107	1	21 48 57.031	50 56 29.71	9012 MAUI	10823	6 RD	1009
8 17	12 58 41.6284	1	22 58 10.720	30 58 14.91	9012 MAUI	10824	3 KA	682
8 17	12 58 45.6284	1	22 59 40.913	30 51 33.02	9012 MAUI	10824	4 KA	683
8 17	16 43 30.9382	1	19 47 26.695	26 41 13.80	9008 SHIRAZ	13548	3 TA	751
8 17	16 43 54.9384	1	19 56 22.519	27 4 21.15	9008 SHIRAZ	13548	6 TA	752
8 17	21 6 6.2982	1	20 3 19.859	20 0 39.04	9004 SAN FERNAN	9913	1 SC	1592
8 17	21 6 30.2985	1	20 11 35.625	20 21 10.93	9004 SAN FERNAN	9913	5 SC	705
8 17	21 28 39.1446	1	22 13 1.149	31 22 28.46	9008 SHIRAZ	13554	5 TA	753
8 17	21 29 19.1463	1	22 27 58.615	30 31 51.64	9008 SHIRAZ	13554	10 TA	754
8 17	23 27 21.2726	1	21 0 7.683	28 7 36.65	9004 SAN FERNAN	9922	2 BZ	706
8 17	23 27 37.2728	1	21 6 1.469	28 3 23.50	9004 SAN FERNAN	9922	4 BZ	707
8 18	3 33 9.7387	1	19 37 24.020	24 32 26.02	9001 ORGAN PASS	11378	4 FI	9648
8 18	3 33 25.7388	1	19 43 30.447	24 49 38.99	9001 ORGAN PASS	11378	8 FI	9649
8 18	8 28 37.0003	1	22 46 49.211	11 21 52.75	9010 JUPITER	10651	3 FI	9653
8 18	8 28 53.0006	1	22 51 37.064	10 46 30.33	9010 JUPITER	10651	5 FI	9654
8 18	10 22 17.9124	1	21 59 25.052	50 1 30.34	9012 MAUI	10831	7 KA	680
8 18	10 22 21.9124	1	22 1 13.416	49 57 34.96	9012 MAUI	10831	8 KA	681
8 18	12 45 22.5694	1	22 53 8.447	29 40 22.38	9012 MAUI	10833	4 KA	678
8 18	12 45 30.5693	1	22 56 2.267	29 26 15.20	9012 MAUI	10833	6 KA	679
8 18	15 5 40.6389	1	23 0 59.345	- 1 3 49.65	9012 MAUI	10839	4 KA	690
8 18	15 5 44.6390	1	23 1 56.052	- 1 15 19.55	9012 MAUI	10839	5 KA	691
8 18	16 29 40.4661	1	19 30 6.286	26 46 16.88	9008 SHIRAZ	13564	6 EM	755
8 18	19 38 5.5915	1	3 33 54.696	41 43 27.09	9003 WOOMERA	15429	3 EM	340
8 18	19 42 38.8257	1	5 35 29.424	29 27 56.17	9003 WOOMERA	15430	5 EM	339
8 18	20 52 19.9104	1	19 49 0.761	19 54 45.43	9004 SAN FERNAN	9936	1 FI	696
8 18	20 52 35.9103	1	19 54 46.039	20 9 42.03	9004 SAN FERNAN	9936	3 FI	697
8 18	23 14 0.5713	1	20 57 20.235	27 55 50.78	9004 SAN FERNAN	9944	2 FI	698
8 18	23 14 16.5713	1	21 3 14.723	27 49 54.20	9004 SAN FERNAN	9944	4 FI	699
8 18	23 36 46.1501	1	22 43 11.910	5 55 49.74	9008 SHIRAZ	13577	2 EM	756
8 18	23 37 10.1510	1	22 49 55.847	5 1 17.65	9008 SHIRAZ	13577	5 EM	757
8 19	1 35 45.9387	1	21 54 40.791	17 1 31.98	9004 SAN FERNAN	9948	2 FI	700
8 19	1 35 53.9386	1	21 57 12.162	16 51 14.42	9004 SAN FERNAN	9948	3 FI	701

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	5 53 19.5790	1	22 2 57.212	35 41 22.15	9010 JUPITER	10657	6 FI	9655
	5 53 43.5735	1	22 12 8.954	35 11 6.32	9010 JUPITER	10657	9 FI	9656
	7 44 44.5152	1	20 9 59.902	52 9 21.75	9012 MAJI	10844	6 TA	794
	7 45 0.5152	1	20 18 5.948	52 4 21.26	9012 MAJI	10844	8 TA	795
	8 22 43.9325	1	23 30 25.032	15 55 40.20	9009 CURACAO	8814	1 KA	1256
	8 22 47.9320	1	23 31 41.301	15 44 51.35	9009 CJRACAO	8814	2 KA	1257
	10 8 52.7212	1	21 56 3.744	49 28 6.96	9012 MAJI	10849	7 AM	688
	10 9 0.7214	1	21 59 36.047	49 19 7.84	9012 MAJI	10849	8 KA	689
	12 31 40.9196	1	22 40 27.170	28 59 37.62	9012 MAJI	10850	4 AM	686
	12 31 56.9197	1	22 46 2.108	28 31 33.56	9012 MAJI	10850	8 AM	687
	14 53 35.1611	1	23 10 42.649	- 5 10 45.86	9012 MAJI	10858	4 KA	684
	14 53 59.1610	1	23 16 32.143	- 6 25 37.12	9012 MAJI	10858	7 KA	685
	16 16 39.5633	1	19 31 34.233	27 41 24.59	9008 SHIRAZ	13585	4 EM	758
	16 16 47.5635	1	19 34 49.017	27 48 49.75	9008 SHIRAZ	13585	6 EM	759
	18 38 18.7333	1	20 35 20.552	39 53 17.73	9008 SHIRAZ	13590	4 EM	750
	18 38 34.7338	1	20 42 16.107	39 47 15.09	9008 SHIRAZ	13590	6 EM	761
	19 31 2.6276	1	5 53 32.532	23 37 21.78	9003 MOOMERA	15446	4 EM	341
	19 31 10.6273	1	5 57 2.730	23 9 51.70	9003 MOOMERA	15446	5 EM	342
	20 39 14.9982	1	19 49 3.124	20 22 54.34	9004 SAN FERNAN	9957	1 SC	702
	20 39 38.9984	1	19 57 48.748	20 42 8.13	9004 SAN FERNAN	9957	4 SC	703
	22 1 26.2400	1	21 11 22.783	27 14 42.88	9004 SAN FERNAN	9962	2 3Z	708
	22 1 34.2400	1	21 14 16.463	27 9 38.54	9004 SAN FERNAN	9962	3 3Z	709
	22 3 38.2695	1	22 40 21.037	4 36 27.86	9008 SHIRAZ	13600	2 JW	1232
	22 24 18.2709	1	22 51 19.526	3 4 29.11	9008 SHIRAZ	13600	7 JW	1233
	1 22 20.9929	1	21 49 14.738	16 16 56.89	9004 SAN FERNAN	9965	2 TA	1061
	1 22 36.9832	1	21 54 12.921	15 55 34.47	9004 SAN FERNAN	9965	4 TA	1062
	3 7 14.6701	1	19 43 46.978	26 9 0.78	9001 ORGAN PASS	11393	4 BZ	660
	3 7 34.6674	1	19 51 39.288	26 22 52.76	9001 ORGAN PASS	11393	9 BZ	661
	5 28 57.8304	1	20 52 25.458	34 45 10.30	9001 ORGAN PASS	11398	3 SF	652
	9 55 11.2819	1	21 45 26.104	49 13 52.42	9012 MAJI	10867	2 EM	1074
	9 55 27.2820	1	21 52 28.156	48 54 36.96	9012 MAJI	10867	6 EM	1075
	11 52 13.5703	1	20 14 43.171	27 35 24.87	9005 TOKYO	8821	4 NG	673
	12 18 40.0416	1	22 42 12.334	27 4 25.95	9012 MAJI	10871	6 TA	694
	12 18 44.0416	1	22 43 33.671	26 56 56.41	9012 MAJI	10871	7 TA	695
	14 14 42.1157	1	21 34 9.475	24 45 22.29	9005 TOKYO	8828	4 NG	674
	14 15 6.1161	1	21 42 26.929	24 19 4.12	9005 TOKYO	8828	7 NG	675
	14 40 59.9503	1	23 13 18.674	- 7 56 10.10	9012 MAJI	10880	5 KA	692
	14 41 3.9502	1	23 14 16.512	- 8 8 40.93	9012 MAJI	10880	6 KA	693
	18 24 24.4490	1	20 17 39.212	40 8 0.57	9008 SHIRAZ	13609	4 JW	3969
	18 24 56.4492	1	20 31 56.449	39 55 28.21	9008 SHIRAZ	13609	8 JW	1235
	20 48 56.5980	1	22 9 52.207	28 4 9.54	9008 SHIRAZ	13613	5 JW	1236
	22 48 12.2364	1	21 10 34.719	26 44 35.78	9004 SAN FERNAN	9982	2 TA	1063
	22 48 36.2363	1	21 19 10.088	26 25 33.67	9004 SAN FERNAN	9982	5 TA	1064
	0 43 13.1135	1	18 51 0.482	61 32 12.63	9009 CJRACAO	8826	3 JW	1258
	0 43 17.1134	1	18 53 39.716	61 32 4.52	9009 CJRACAO	8826	4 JW	1259

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.VO.
1963	8 21	1 9 39.8339	1 21 57 12.232	14 26 11.23	4	9004 SAN FERNAN	9987	4 TA	1065
8 21	1 9 47.8337	1 1 14 20.14	4	9004 SAN FERNAN	9987	5 TA	1066		
8 21	7 48 40.0358	1 22 30 0.027	8 9 44.00	4	9010 JUPITER	10674	5 FI	9657	
8 21	7 48 56.0362	1 22 34 25.860	7 34 29.03	4	9010 JUPITER	10674	7 FI	9658	
8 21	9 42 9.8432	1 21 52 8.136	48 9 44.23	4	9012 MAUI	10888	3 BZ	1024	
8 21	14 27 32.1093	1 23 3 31.690	- 8 5 33.40	4	9012 MAUI	10894	7 TA	796	
8 21	18 10 1.3675	1 19 44 54.702	40 28 8.38	4	9008 SHIRAZ	13629	2 JW	1238	
8 21	18 10 17.3679	1 19 52 32.746	40 26 38.07	4	9008 SHIRAZ	13629	6 JW	1239	
8 21	22 32 39.6215	1 20 16 57.360	27 35 15.68	4	9004 SAN FERNAN	10005	3 TA	1067	
8 21	22 32 55.6214	1 20 23 15.986	27 29 14.95	4	9004 SAN FERNAN	10005	5 AC	1068	
8 22	0 30 5.7699	1 18 51 24.971	62 43 31.12	4	9009 CURACAD	8836	2 AM	1260	
8 22	0 30 9.7700	1 18 54 13.323	62 42 21.93	4	9009 CURACAD	8836	3 AM	1251	
8 22	3 41 38.2045	1 1 28 50.583	21 53 54.86	4	9002 OLIFANTS	14120	6 EM	348	
8 22	5 1 2.9290	1 20 15 9.860	35 1 22.55	4	9001 ORGAN PASS	11405	1 SE	663	
8 22	5 1 10.9290	1 20 18 38.171	34 57 30.78	4	9001 ORGAN PASS	11405	3 SE	664	
8 22	7 6 7.9812	1 20 44 36.726	52 21 1.02	4	9012 MAUI	10902	3 TA	797	
8 22	7 51 12.0606	1 2 10 22.845	34 19 34.05	4	9007 AREQUIPA	9868	5 EM	349	
8 22	10 8 17.6988	1 0 32 44.099	12 2 20.72	4	9007 AREQUIPA	9875	7 EM	528	
8 22	10 8 25.6988	1 0 34 58.167	11 40 35.07	4	9007 AREQUIPA	9875	8 EM	529	
8 22	12 4 37.9795	1 2 12 25.210	- 9 24 24.23	4	9012 MAUI	10907	4 AM	798	
8 22	12 5 17.9797	1 2 22 26.475	-11 3 34.23	4	9012 MAUI	10907	9 AM	799	
8 22	13 42 39.3643	1 19 29 0.074	26 43 50.02	4	9005 TOKYO	8842	1 NG	676	
8 22	13 43 27.3660	1 19 47 7.204	26 37 55.93	4	9005 TOKYO	8842	4 NG	677	
8 22	18 3 6.5668	1 19 8 4.642	35 14 30.98	4	9006 NAINI TAL	8432	5 EM	9920	
8 22	18 3 22.5670	1 19 14 16.457	35 18 7.50	4	9006 NAINI TAL	8432	7 EM	9921	
8 22	22 17 50.2257	1 19 35 54.579	27 36 21.27	4	9004 SAN FERNAN	10031	2 AM	9932	
8 22	22 18 30.2258	1 19 52 35.603	27 31 51.38	4	9004 SAN FERNAN	10031	7 AM	9933	
8 23	0 17 18.0187	1 19 5 41.847	63 42 7.66	4	9009 CURACAD	8854	6 JV	1054	
8 23	0 17 26.0186	1 19 11 26.108	63 35 47.19	4	9009 CURACAD	8854	7 JV	1055	
8 23	6 51 13.5827	1 19 50 8.991	54 43 57.63	4	9012 MAUI	10918	3 AM	800	
8 23	6 51 17.5827	1 19 52 30.880	54 40 5.49	4	9012 MAUI	10918	4 AM	801	
8 23	9 9 41.7451	1 19 2 7.877	50 59 32.68	4	9012 MAUI	10922	8 AM	802	
8 23	9 58 56.3303	1 1 39 54.484	- 3 17 10.68	4	9007 AREQUIPA	9889	10 AC	764	
8 23	17 42 31.7549	1 19 9 23.076	40 57 41.33	4	9008 SHIRAZ	13653	6 JW	1240	
8 23	17 42 35.7549	1 19 11 29.347	40 57 57.34	4	9008 SHIRAZ	13653	7 JW	1241	
8 23	19 59 37.7617	1 18 35 33.283	31 48 49.85	4	9008 SHIRAZ	13655	4 JW	1242	
8 23	19 59 53.7621	1 18 41 10.461	31 54 8.00	4	9008 SHIRAZ	13655	6 JW	1243	
8 23	22 4 28.0292	1 19 29 14.856	27 22 8.31	4	9004 SAN FERNAN	10055	3 EM	527	
8 23	22 5 8.0296	1 19 46 25.760	27 14 16.33	4	9004 SAN FERNAN	10055	8 EM	9934	
8 24	4 32 58.9873	1 19 27 8.139	35 19 19.31	4	9001 ORGAN PASS	11418	3 SE	665	
8 24	4 33 18.9873	1 19 36 45.026	35 14 0.95	4	9001 ORGAN PASS	11418	7 SE	666	
8 24	6 38 9.9266	1 19 54 25.814	55 9 34.66	4	9012 MAUI	10929	3 AM	803	
8 24	6 38 25.9272	1 20 3 54.130	54 48 2.77	4	9012 MAUI	10929	5 AM	804	
8 24	7 29 4.4202	1 3 11 15.428	18 19 21.10	4	9007 AREQUIPA	9895	5 KA	765	
8 24	7 29 44.4190	1 3 24 27.248	16 12 44.19	4	9007 AREQUIPA	9895	10 KA	766	

DATE Y M D	TIME (A-I) T M S		RMS MS	R.A. (1950.0) H M S		DECL. (1950.0) D M S		STATION	FRAME NO.	MS	OBS. NO.
1963	8 24	8 55 44.7803	1	18 38 12.872	50 54 35.25	4	9012 MAUI	10932	3	AC	805
	8 24	8 56 8.7804	1	18 50 22.251	51 6 19.64	4	9012 MAUI	10932	9	KA	806
	8 24	9 45 31.1962	1	1 21 18.771	- 3 30 49.47	4	9007 AREQUIPA	9902	2	KA	767
	8 24	9 45 47.1956	1	1 27 35.095	- 4 40 57.49	4	9007 AREQUIPA	9902	4	KA	768
	8 24	13 56 8.5248	1	0 51 37.038	-36 26 56.16	4	9012 MAUI	10939	3	KA	807
	8 24	13 56 56.5248	1	1 6 29.698	-38 48 5.57	4	9012 MAUI	10939	9	TA	808
	8 24	17 30 4.4934	1	19 30 42.873	41 1 11.52	4	9008 SHIRAZ	13671	3	JW	1244
	8 24	17 30 28.4943	1	19 43 18.969	40 47 20.18	4	9008 SHIRAZ	13671	6	JW	1245
	8 24	19 47 0.7198	1	18 44 28.561	31 41 25.30	4	9008 SHIRAZ	13676	3	JW	2435
	8 24	19 47 24.7208	1	18 53 22.910	31 43 15.42	4	9008 SHIRAZ	13676	6	JW	1247
	8 24	22 50 5.8165	1	18 14 35.576	66 51 15.30	4	9009 CURACAO	8889	4	JV	1056
	8 25	2 12 42.4261	1	20 5 33.283	64 12 35.24	4	9009 CURACAO	8893	5	JV	1574
1963	8 25	4 20 6.3385	1	19 34 3.768	35 5 24.79	4	9001 ORGAN PASS	11438	4	SE	667
	8 25	4 20 14.3383	1	19 37 59.240	35 1 8.20	4	9001 ORGAN PASS	11438	6	SE	668
	8 25	6 25 27.4312	1	20 10 45.697	54 55 56.10	4	9012 MAUI	10945	7	TA	809
	8 25	6 25 31.4311	1	20 13 4.281	54 48 46.03	4	9012 MAUI	10945	8	TA	810
	8 25	8 43 14.1701	1	18 57 31.848	51 23 59.31	4	9012 MAUI	10950	5	TA	811
	8 25	9 26 59.6253	1	2 31 31.864	11 51 6.97	4	9011 VILLA DOLO	10397	2	JV	916
	8 25	20 26 16.5565	1	1 59 38.640	7 9 33.25	4	9003 WOODNERA	15544	3	EM	343
	8 25	20 26 20.5565	1	2 1 13.926	6 59 44.51	4	9003 WOODNERA	15544	4	EM	344
	8 26	1 59 37.5248	1	20 11 28.066	64 15 51.87	4	9009 CURACAO	8901	4	JV	1059
	8 26	6 12 13.3948	1	20 7 49.827	55 30 55.67	4	9012 MAUI	10964	4	BZ	1043
	8 26	8 29 14.4275	1	18 28 33.406	51 25 55.94	4	9012 MAUI	10968	7	BZ	1044
	8 26	8 29 18.4275	1	18 30 45.779	51 27 18.91	4	9012 MAUI	10968	8	BZ	1045
1963	8 26	9 20 1.9480	1	1 18 57.748	-10 3 17.76	4	9007 AREQUIPA	9919	6	JW	769
	8 26	9 20 17.9477	1	1 25 12.799	-11 13 21.37	4	9007 AREQUIPA	9919	8	JW	770
	8 26	9 24 14.5518	1	2 27 59.849	8 58 15.15	4	9011 VILLA DOLO	10419	6	JV	917
	8 26	9 24 22.5515	1	2 31 30.924	8 38 37.62	4	9011 VILLA DOLO	10419	7	JV	918
	8 26	19 19 42.9847	1	18 14 50.302	30 49 29.43	4	9008 SHIRAZ	13707	2	AC	1250
	8 26	19 20 6.9855	1	18 24 12.451	30 51 49.35	4	9008 SHIRAZ	13707	5	AC	1251
	8 26	21 24 45.9448	1	19 15 16.906	26 12 52.29	4	9004 SAN FERVAN	10124	3	AM	9931
	8 27	8 16 8.9517	1	18 27 44.100	51 42 23.45	4	9012 MAUI	10979	7	BZ	1046
	8 27	8 16 12.9517	1	18 30 2.655	51 43 3.91	4	9012 MAUI	10979	8	BZ	1047
	8 27	16 50 59.6955	1	19 37 34.899	40 39 50.88	4	9008 SHIRAZ	13722	4	AC	1252
	8 27	16 51 7.6956	1	19 42 4.755	40 28 43.70	4	9008 SHIRAZ	13722	6	KA	1253
	8 27	19 6 27.4436	1	18 7 17.681	30 22 22.17	4	9008 SHIRAZ	13727	6	KA	1254
	8 28	5 46 22.7350	1	20 21 46.400	55 18 36.01	4	9012 MAUI	10991	5	BZ	1048
1963	8 28	5 46 34.7348	1	20 28 31.738	54 44 15.37	4	9012 MAUI	10991	8	BZ	1049
	8 28	6 42 44.0101	1	4 18 0.319	- 6 5 12.02	4	9007 AREQUIPA	9933	3	JW	771
	8 28	6 43 0.0096	1	4 22 37.339	- 6 40 18.33	4	9007 AREQUIPA	9933	5	JW	772
	8 28	8 3 18.4913	1	18 35 16.905	51 54 50.09	4	9012 MAUI	10996	4	BZ	1050
	8 28	8 56 53.5190	1	2 22 37.406	-26 41 49.93	4	9007 AREQUIPA	9936	5	AM	773
	8 28	8 57 9.5186	1	2 31 2.852	-27 50 7.24	4	9007 AREQUIPA	9936	7	AM	774
	8 28	8 58 16.3591	1	2 11 37.952	4 18 49.56	4	9011 VILLA DOLO	10441	4	JV	919
	8 28	8 58 24.3593	1	2 14 55.816	3 58 47.74	4	9011 VILLA DOLO	10441	5	JV	920

DATE Y M D	TIME (A-I)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS.VO.
	H	M	S		H	M	S	D	M	S				
1963 8 28	16	38	10.0227	1	19 45	14.694		40	2	56.72	9008 SHIRAZ	13746	5 KA	1255
8 28	17	27	46.4070	1	1 50	59.914		22	20	17.49	9003 WOOMERA	15569	4 FI	345
8 28	20	58	38.7029	1	19 11	50.198		24	53	34.23	9004 SAN FERNAN	10181	3 AM	9930
8 28	23	13	56.8671	1	18 16	3.379		15	54	4.43	9004 SAN FERNAN	10187	8 AM	9929
8 29	1	18	5.4506	1	20 39	0.546		41	53	4.22	9010 JUPITER	10771	6 NG	1016
8 29	1	18	21.4511	1	20 46	21.976		41	11	8.25	9010 JUPITER	10771	8 NG	1017
8 29	3	31	44.0854	1	17 50	48.491		35	3	24.25	9010 JUPITER	10782	4 NG	1018
8 29	7	50	16.1466	1	18 35	11.992		52	2	23.73	9012 MAUI	11005	3 JV	1051
8 29	7	50	36.1467	1	18 47	55.948		51	52	17.15	9012 MAUI	11005	8 JV	1052
8 29	8	44	34.6490	1	2 37	32.278		-30	59	48.56	9007 AREQUIPA	9945	3 AM	775
8 29	8	44	58.6483	1	2 50	44.339		-32	29	34.32	9007 AREQUIPA	9945	6 KA	776
8 29	20	46	4.6468	1	19 23	59.829		23	34	55.35	9004 SAN FERNAN	10202	4 AM	9927
8 29	20	46	28.6468	1	19 35	49.817		23	6	19.06	9004 SAN FERNAN	10202	7 AM	9928
8 29	23	1	13.2582	1	18 18	32.612		14	36	49.37	9004 SAN FERNAN	10211	7 EM	9925
8 29	23	1	21.2582	1	18 21	26.039		14	31	20.28	9004 SAN FERNAN	10211	8 EM	9926
8 30	1	4	29.6568	1	20 22	50.580		42	50	34.93	9010 JUPITER	10791	4 NG	1019
8 30	1	5	1.6582	1	20 38	33.456		41	19	38.23	9010 JUPITER	10791	8 NG	1573
8 30	1	7	11.2494	1	20 22	8.884		64	31	32.52	9009 CURACAO	8945	2 JV	1060
8 30	3	19	26.7161	1	18 8	9.256		34	34	14.35	9010 JUPITER	10806	7 BZ	1021
8 30	7	37	22.3455	1	18 39	53.919		52	1	38.85	9012 MAUI	11027	3 JV	1053
8 30	8	33	2.2926	1	3 20	16.104		-37	6	26.37	9007 AREQUIPA	9960	4 KA	1590
8 30	8	33	26.2918	1	3 34	34.456		-38	10	43.89	9007 AREQUIPA	9960	7 KA	778
8 30	17	4	28.5936	1	2 27	10.737		12	4	36.31	9003 WOOMERA	15600	11 EM	347
8 30	22	47	55.4059	1	18 8	3.580		13	35	1.78	9004 SAN FERNAN	10239	5 EM	9922
8 30	22	48	11.4062	1	18 14	1.578		13	22	38.10	9004 SAN FERNAN	10239	7 EM	9923
8 31	3	6	44.9634	1	18 14	27.343		33	47	38.89	9010 JUPITER	10829	8 BZ	1022
8 31	7	24	36.4329	1	18 49	26.752		51	45	7.86	9012 MAUI	11047	8 BZ	1023
8 31	8	21	8.1308	1	3 52	7.335		-40	34	30.85	9007 AREQUIPA	9974	5 KA	779
8 31	8	21	24.1305	1	4 1	42.480		-41	2	47.74	9007 AREQUIPA	9974	7 KA	780
8 31	16	52	53.5907	1	2 47	9.296		6	44	13.42	9003 WOOMERA	15613	5 EM	555
8 31	20	20	49.0104	1	19 42	12.545		20	15	48.80	9004 SAN FERNAN	10255	4 EM	522
9 1	0	41	9.2892	1	21 26	59.316		32	52	11.06	9010 JUPITER	10852	5 RO	5233
9 1	0	41	33.2915	1	21 34	15.445		31	38	49.91	9010 JUPITER	10852	8 RO	5234
9 1	1	31	57.1503	1	0 34	23.136		-1	49	6.05	9002 OLIFANTS	14295	6 HC	2744
9 1	1	32	13.1504	1	0 39	0.925		-2	30	11.06	9002 OLIFANTS	14295	8 HC	2745
9 1	2	49	25.4845	1	19 49	59.190		29	45	53.09	9001 ORGAN PASS	11481	3 HC	2740
9 1	2	49	41.4847	1	19 58	16.141		29	7	15.14	9001 ORGAN PASS	11481	7 HC	2741
9 1	2	53	23.9354	1	18 0	3.581		33	15	45.28	9010 JUPITER	10862	6 RO	5235
9 1	2	53	47.9344	1	18 12	38.806		32	58	44.08	9010 JUPITER	10862	9 RO	5236
9 1	5	3	13.6986	1	17 38	53.256		19	55	55.86	9001 ORGAN PASS	11484	5 HC	2742
9 1	5	3	17.6987	1	17 40	35.557		19	53	30.86	9001 ORGAN PASS	11484	6 HC	2743
9 1	7	11	17.9087	1	18 35	10.745		52	4	7.17	9012 MAUI	11068	3 RO	5247
9 1	7	11	33.9088	1	18 46	45.759		51	42	28.46	9012 MAUI	11068	7 RO	5248
9 1	8	10	2.1749	1	3 28	7.187		-13	48	41.68	9011 VILLA DOLO	10479	4 RO	5239
9 1	8	10	26.1741	1	3 40	21.851		-14	39	30.48	9011 VILLA DOLO	10479	7 RO	5240

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	9 1 20 7 42.4446	1	19 35 55.199	19 9 18.52	9004 SAN FERNAN	10268	3 HC	2749
	9 1 20 7 50.4445	1	19 39 53.004	18 54 55.57	9004 SAN FERNAN	10268	4 HC	2750
	9 2 1 20 11.5231	1	0 53 49.287	-7 32 25.00	9002 OLIFANTS	14309	7 HC	2746
	9 2 6 59 4.6091	1	19 6 59.163	50 35 18.96	9012 MAUI	11099	3 RD	5249
	9 2 6 59 20.6091	1	19 18 11.896	49 58 10.66	9012 MAUI	11099	7 RD	5250
	9 2 9 14 43.4075	1	17 50 1.819	26 39 16.96	9012 MAUI	11102	4 RD	5245
	9 2 9 14 51.4075	1	17 52 51.612	26 32 55.49	9012 MAUI	11102	6 RD	5246
	9 2 17 49 23.8710	1	18 13 32.947	24 30 17.80	9008 SHIRAZ	13876	3 HC	2751
	9 2 17 49 39.8712	1	18 21 46.841	24 8 9.96	9008 SHIRAZ	13876	7 HC	2752
	9 3 3 30 21.6082	1	1 59 34.438	-42 10 26.02	9002 OLIFANTS	14329	3 HC	2747
	9 3 3 30 47.0281	1	2 14 28.661	-43 52 7.62	9002 OLIFANTS	14329	8 HC	2748
	9 3 9 0 38.4226	1	17 20 27.651	26 22 13.74	9012 MAUI	11126	3 RD	5243
	9 3 9 0 50.4226	1	17 24 44.698	26 14 17.75	9012 MAUI	11126	6 RD	5244
	9 3 17 36 25.4081	1	18 8 20.872	23 8 18.39	9008 SHIRAZ	13895	3 HC	2753
	9 3 17 36 33.4083	1	18 12 37.930	22 55 44.78	9008 SHIRAZ	13895	5 HC	2754
	9 4 2 15 33.9912	1	18 23 19.353	28 52 14.62	9010 JUPITER	10904	5 RD	5814
	9 4 2 15 57.9922	1	18 37 8.652	28 4 49.78	9010 JUPITER	10904	8 RD	5238
	9 4 7 32 38.4702	1	3 58 52.412	-21 16 11.88	9011 VILLA DOLO	10497	6 RD	5815
	9 4 7 32 46.4702	1	4 2 43.081	-21 24 51.26	9011 VILLA DOLO	10497	7 RD	5242
	9 4 23 52 24.7335	1	21 56 9.925	49 17 56.98	9009 CJRACAD	8963	4 HC	2755
	9 5 2 2 36.4974	1	18 17 54.161	27 32 2.19	9010 JUPITER	10924	5 VD	4791
	9 5 2 3 8.4934	1	18 36 58.164	26 19 52.26	9010 JUPITER	10924	9 VD	4792
	9 5 2 5 19.1342	1	17 45 36.263	46 20 46.81	9009 CURACAD	8968	6 BA	4779
	9 5 2 5 31.1344	1	17 52 16.824	46 11 36.08	9009 CURACAD	8968	9 BA	4780
	9 5 6 20 41.9054	1	19 22 59.109	47 53 2.01	9012 MAUI	11144	3 3N	4938
	9 5 6 20 57.9054	1	19 34 23.073	46 51 25.05	9012 MAUI	11144	7 BN	4939
	9 5 8 34 45.4667	1	17 6 38.911	24 5 34.22	9012 MAUI	11149	4 BN	4940
	9 5 8 34 57.4668	1	17 11 14.097	23 54 10.42	9012 MAUI	11149	7 BN	4941
	9 5 17 11 30.4989	1	18 29 37.316	17 53 58.91	9008 SHIRAZ	13937	5 DM	4923
	9 5 17 11 34.4988	1	18 31 50.184	17 44 24.32	9008 SHIRAZ	13937	6 DM	4924
	9 5 21 30 57.0237	1	17 54 25.144	2 37 18.72	9004 SAN FERNAN	10326	3 HC	4824
	9 5 21 31 21.0239	1	18 5 14.828	1 54 9.94	9004 SAN FERNAN	10326	6 HC	4825
	9 6 3 59 59.7274	10	17 51 7.691	10 14 48.80	9001 ORGAN PASS	11510	7 BN	4286
	9 6 4 0 7.7263	10	17 55 12.445	9 59 1.57	9001 ORGAN PASS	11510	8 BN	4287
	9 6 6 8 2.3756	1	19 31 53.347	46 12 52.73	9012 MAUI	11168	3 3N	4942
	9 6 6 8 14.3757	1	19 40 17.716	45 19 41.61	9012 MAUI	11168	6 BN	4943
	9 6 8 22 44.5318	1	17 20 33.715	21 42 16.80	9012 MAUI	11172	4 BN	4944
	9 6 8 22 56.5317	1	17 25 24.800	21 25 20.38	9012 MAUI	11172	7 BN	4945
	9 6 16 58 50.2812	1	18 32 27.196	15 16 45.64	9008 SHIRAZ	13956	5 DM	4925
	9 6 16 59 6.2819	1	18 41 25.979	14 33 11.77	9008 SHIRAZ	13956	9 DM	4926
	9 6 21 19 11.9813	1	18 19 21.682	-1 43 52.29	9004 SAN FERNAN	10346	4 HC	4826
	9 6 21 19 27.9814	1	18 26 32.991	-2 16 34.59	9004 SAN FERNAN	10346	6 HC	4827
	9 7 0 19 44.6529	1	2 30 51.603	-28 46 46.91	9002 OLIFANTS	14385	14 BN	4293
	9 7 3 47 42.4831	1	18 3 26.446	6 50 0.41	9001 ORGAN PASS	11525	3 3N	4288
	9 7 3 48 14.4762	1	18 19 53.379	5 34 44.31	9001 ORGAN PASS	11525	7 3N	4289

DATE		TIME (A-L)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	ORBS.NO.				
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S							
1963	9	7	6	3	11.3511	1	17	50	44.882	-	5	3	8.87	4	9001	ORGAN PASS	11529	3	BN	4290
	9	7	6	3	27.3510	1	17	55	5.804	-	5	32	43.02	4	9001	ORGAN PASS	11529	5	3N	5487
	9	7	19	1	31.9180	1	17	49	58.397	-	2	55	53.07	4	9008	SHIRAZ	13976	7	DM	4927
	9	7	21	6	3.2149	1	18	5	37.680	-	3	28	32.75	4	9004	SAN FERNAN	10366	4	HC	4828
	9	7	21	6	19.2149	1	18	13	7.371	-	4	2	39.10	4	9004	SAN FERNAN	10366	6	HC	4829
9	8	0	6	54.4319	1	2	35	20.084	-30	22	39.20	4	9002	OLIFANTS	14402	5	BN	7706		
9	8	0	7	10.4320	1	2	41	56.745	-30	42	27.91	4	9002	OLIFANTS	14402	7	BN	5490		
9	8	1	25	34.5968	1	19	3	55.280	17	5	16.13	4	9010	JUPITER	10978	8	VD	4793		
9	8	16	33	56.2997	1	18	50	59.744	8	2	47.63	4	9008	SHIRAZ	13990	4	DM	4928		
9	8	16	34	8.2998	1	18	57	40.751	7	24	6.05	4	9008	SHIRAZ	13990	7	DM	4929		
9	8	17	25	1.0504	1	1	24	40.693	-23	44	58.90	4	9003	WOOMERA	15742	4	MY	4346		
9	8	17	25	9.0503	1	1	27	42.492	-23	59	52.69	4	9003	WOOMERA	15742	6	MY	4347		
9	8	20	53	52.3156	1	18	18	12.191	-	7	20	56.07	4	9004	SAN FERNAN	10387	4	HC	4830	
9	8	20	54	0.3154	1	18	21	57.437	-	7	38	46.95	4	9004	SAN FERNAN	10387	5	HC	4831	
9	8	23	54	4.4432	1	2	40	21.529	-31	46	0.07	4	9002	OLIFANTS	14422	7	BN	4296		
9	8	23	54	12.4434	1	2	43	35.638	-31	53	47.58	4	9002	OLIFANTS	14422	8	BN	4297		
9	9	5	31	7.7439	1	20	27	30.315	33	42	39.59	4	9012	MAUI	11181	3	BN	4946		
9	9	5	31	27.7441	1	20	37	8.869	31	46	42.90	4	9012	MAUI	11181	8	BN	4947		
9	9	7	45	23.9803	1	17	31	58.639	13	51	12.03	4	9012	MAUI	11186	4	3N	4948		
9	9	7	45	31.9804	1	17	35	36.435	13	31	6.03	4	9012	MAUI	11186	6	BN	4949		
9	9	16	21	36.0493	1	19	2	48.254	3	43	8.17	4	9008	SHIRAZ	14009	4	MY	4930		
9	9	16	21	44.0495	1	19	7	9.239	3	16	40.71	4	9008	SHIRAZ	14009	6	MY	5522		
9	9	17	12	5.7706	1	1	28	14.278	-25	33	22.15	4	9003	WOOMERA	15766	5	MY	4348		
9	9	17	12	9.7706	1	1	29	46.071	-25	40	6.40	4	9003	WOOMERA	15766	6	MY	4349		
9	9	18	36	47.1567	1	17	54	8.614	-	9	23	23.43	4	9008	SHIRAZ	14012	5	MY	4931	
9	9	19	24	25.7274	1	23	30	0.656	-20	57	31.88	4	9003	WOOMERA	15769	4	MY	4350		
9	9	19	24	41.7269	1	23	33	8.877	-21	24	38.34	4	9003	WOOMERA	15769	5	MY	4351		
9	9	20	42	29.3023	1	18	52	4.747	-13	3	53.19	4	9004	SAN FERNAN	10401	4	GL	5369		
9	9	20	42	53.3024	1	19	2	32.300	-13	54	9.41	4	9004	SAN FERNAN	10401	7	GL	5370		
9	9	23	41	35.7494	1	2	54	7.727	-33	10	46.18	4	9002	OLIFANTS	14437	4	BN	4298		
9	9	23	41	59.7489	1	3	3	36.246	-33	24	37.93	4	9002	OLIFANTS	14437	7	BN	4299		
9	10	1	2	51.2469	1	18	30	53.868	38	25	44.53	4	9009	CURACAO	8982	8	BA	4781		
9	10	1	2	53.2473	1	18	32	11.873	38	19	0.53	4	9009	CURACAO	8982	9	BA	4782		
9	10	3	10	59.1113	1	18	42	34.327	-	5	35	8.80	4	9001	ORGAN PASS	11570	4	BN	5488	
9	10	3	11	15.1114	1	18	50	40.039	-	6	18	49.51	4	9001	ORGAN PASS	11570	6	BN	5489	
9	10	3	14	48.5237	1	17	32	22.891	-	4	32	0.38	4	9010	JUPITER	11001	5	VD	4794	
9	10	7	32	50.8684	1	17	32	28.390	10	52	11.66	4	9012	MAUI	11205	3	BN	7325		
9	10	7	33	10.8685	1	17	41	51.997	9	53	58.22	4	9012	MAUI	11205	8	3N	5882		
9	10	13	59	18.3000	1	20	0	0.364	0	51	14.78	4	9006	NAINI TAL	8486	4	GL	5377		
9	10	13	59	26.3002	1	20	3	36.527	0	25	20.90	4	9006	NAINI TAL	8486	5	GL	5378		
9	10	16	9	23.1316	1	19	17	24.540	-	1	6	58.39	4	9008	SHIRAZ	14022	3	PL	5913	
9	10	16	9	39.1322	1	19	25	37.931	-	1	58	25.63	4	9008	SHIRAZ	14022	7	PL	5914	
9	10	16	13	12.7696	1	17	49	25.443	-	9	40	8.43	4	9006	NAINI TAL	8491	3	GL	5379	
9	10	16	13	20.7698	1	17	52	24.169	-10	1	26.15	4	9006	NAINI TAL	8491	4	GL	5380		
9	10	16	59	44.2372	1	1	45	38.536	-28	0	46.79	4	9003	WOOMERA	15781	3	MY	4352		

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S		DECL. (1950.0) D M S		STATION	FRAME NO.	MS	OBS. NO.
1963	9 10	16 59 56.2371	1	1 50 23.958	-28 16 48.20	4	9003 WOOMERA	15781	6 MY	4353
	9 10	18 24 10.5731	1	17 51 13.630	-12 13 3.01	4	9008 SHIRAZ	14026	3 LT	7720
	9 10	18 24 14.5733	1	17 52 32.332	-12 23 6.29	4	9008 SHIRAZ	14026	4 PL	5916
	9 10	19 10 59.5927	1	23 22 51.737	-21 39 5.90	4	9003 WOOMERA	15783	6 MY	4354
	9 10	19 11 15.5922	1	23 26 0.984	-22 5 30.76	4	9003 WOOMERA	15783	7 MY	4355
	9 10	20 29 11.6520	1	18 32 59.587	-14 36 17.57	4	9004 SAN FERNAN	10416	3 GL	7329
	9 10	20 29 19.6517	1	18 36 44.317	-14 53 49.62	4	9004 SAN FERNAN	10416	4 GL	5372
	9 11	0 47 45.4543	1	19 14 13.313	6 38 11.12	4	9010 JUPITER	11017	4 VD	4795
	9 11	0 47 57.4546	1	19 21 4.800	5 49 16.94	4	9010 JUPITER	11017	7 VD	4796
	9 11	0 50 33.4648	1	18 46 38.188	35 0 16.39	4	9009 CJRACAD	8990	4 VD	4783
9 11	9 11	0 50 53.4649	1	18 59 23.197	33 35 36.50	4	9009 CJRACAD	8990	9 VD	4784
	9 11	7 19 49.3717	1	17 18 42.717	9 7 28.68	4	9012 MAUI	11225	4 BN	5883
	9 11	7 20 1.3716	1	17 24 32.793	8 30 28.02	4	9012 MAUI	11225	7 BN	5884
	9 11	13 49 53.9889	1	21 8 52.948	-10 33 0.98	4	9006 NAINI TAL	8505	5 GL	5381
	9 11	13 50 1.9885	1	21 11 6.035	-10 48 58.66	4	9006 NAINI TAL	8505	6 GL	5382
	9 11	15 57 18.0814	1	19 34 25.387	-6 17 29.52	4	9008 SHIRAZ	14042	4 PL	7721
	9 11	15 57 26.0817	1	19 38 16.163	-6 41 15.52	4	9008 SHIRAZ	14042	6 PL	5918
	9 11	16 0 51.0739	1	17 52 17.910	-13 22 47.31	4	9008 NAINI TAL	8508	5 GL	5383
	9 11	16 0 59.0741	1	17 55 21.603	-13 45 6.45	4	9006 NAINI TAL	8508	6 GL	5384
	9 11	16 47 25.8445	1	2 5 15.656	-30 0 56.42	4	9003 WOOMERA	15798	4 MY	4356
9 11	9 11	16 47 33.8452	1	2 8 28.823	-30 8 27.75	4	9003 WOOMERA	15798	6 MY	4357
	9 11	18 12 43.4059	1	18 11 14.963	-18 6 46.59	4	9008 SHIRAZ	14045	7 BA	4763
	9 11	18 12 51.4065	1	18 13 56.023	-18 27 36.26	4	9008 SHIRAZ	14045	8 BA	4764
	9 11	18 57 49.9923	1	23 19 12.991	-22 47 59.27	4	9003 WOOMERA	15799	4 MY	4358
	9 11	18 58 5.9924	1	23 22 28.886	-23 14 5.87	4	9003 WOOMERA	15799	5 MY	5513
	9 11	19 18 8.0566	1	7 53 51.191	-17 7 25.45	4	9003 WOOMERA	15800	5 MY	4361
	9 11	20 17 2.1269	1	18 44 31.617	-18 33 56.96	4	9004 SAN FERNAN	10435	4 GL	5373
	9 11	20 17 10.1265	1	18 48 11.816	-18 50 19.06	4	9004 SAN FERNAN	10435	5 GL	5374
	9 12	7 8 13.5876	1	17 46 33.416	2 27 11.30	4	9012 MAUI	11236	3 3N	5885
	9 12	7 8 33.5875	1	17 56 32.223	1 13 28.89	4	9012 MAUI	11236	8 3N	5886
9 12	9 12	15 43 44.3614	1	19 4 56.971	-6 51 45.60	4	9008 SHIRAZ	14061	3 BA	4765
	9 12	15 44 4.3616	1	19 15 49.950	-7 55 15.32	4	9008 SHIRAZ	14061	8 BA	4766
	9 12	15 48 56.9966	1	18 5 43.831	-18 28 29.69	4	9006 NAINI TAL	8521	7 DM	4916
	9 12	15 49 4.9969	1	18 8 50.754	-18 50 59.64	4	9006 NAINI TAL	8521	8 DM	4917
	9 12	16 35 23.0183	1	2 31 30.986	-31 33 21.64	4	9003 WOOMERA	15817	11 MY	4362
	9 12	16 35 31.0183	1	2 34 43.305	-31 36 54.11	4	9003 WOOMERA	15817	12 MY	4363
	9 12	17 59 31.6366	1	17 55 50.628	-19 29 48.77	4	9008 SHIRAZ	14065	3 BA	4767
	9 12	17 59 55.6371	1	18 4 8.556	-20 34 24.10	4	9008 SHIRAZ	14065	6 BA	4768
	9 12	18 45 19.6723	1	23 24 20.412	-24 59 24.94	4	9003 WOOMERA	15818	9 MY	4364
	9 13	0 33 41.5134	1	22 16 1.294	-7 57 51.21	4	9009 CURACAO	9006	9 VD	4785
9 13	9 13	7 2 49.4570	1	20 53 21.449	-24 36 42.47	4	9012 MAUI	11259	4 BN	5887
	9 13	7 2 57.4569	1	20 56 3.889	-24 53 56.92	4	9012 MAUI	11259	6 BN	5888
	9 13	16 21 42.3708	1	2 18 58.253	-31 54 25.33	4	9003 WOOMERA	15839	5 PL	4495
	9 13	16 21 46.3707	1	2 20 32.305	-31 56 11.77	4	9003 WOOMERA	15839	6 PL	4496
	9 13	17 43 30.5382	1	16 38 48.610	-12 43 54.26	4	9008 SHIRAZ	14078	8 BA	4770

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 9 13	18 32 16.2764	1	23 23 7.505	-26 15 3.26	4	9003 WOOMERA	15842	3 PL	4497
9 13	18 32 24.2761	1	23 24 58.454	-26 27 44.97	4	9003 WOOMERA	15842	4 PL	4498
9 13	18 50 48.4952	1	7 1 44.910	-20 28 7.80	4	9003 WOOMERA	15846	4 PL	4499
9 13	18 50 56.4956	1	7 4 33.812	-20 3 45.78	4	9003 WOOMERA	15846	5 PL	4500
9 13	19 45 14.9428	1	14 58 35.388	-6 56 9.18	4	9004 SAN FERNAN	10439	6 PK	5375
9 13	19 45 22.9432	1	15 3 4.013	-7 17 19.98	4	9004 SAN FERNAN	10439	7 GL	5376
9 14	2 31 43.1395	1	18 30 53.605	-14 11 35.14	4	9009 CURACAO	9021	8 VD	5526
9 14	2 31 47.1396	1	18 32 12.248	-14 25 19.43	4	9009 CURACAO	9021	9 VD	4787
9 14	5 20 27.7893	1	2 59 30.015	-28 56 40.59	4	9011 VILLA DOLO	10526	5 PG	4513
9 14	5 20 35.7895	1	3 2 15.913	-28 56 22.04	4	9011 VILLA DOLO	10526	6 PG	4514
9 14	6 51 28.2167	1	21 19 17.080	-30 7 13.58	4	9012 MAUI	11274	2 BN	7326
9 14	6 51 44.2168	1	21 24 15.321	-30 33 9.10	4	9012 MAUI	11274	6 BN	5890
9 14	7 30 41.1751	1	23 46 54.649	-28 21 45.84	4	9011 VILLA DOLO	10528	4 PG	4515
9 14	7 30 57.1905	1	23 51 26.969	-28 47 10.43	4	9011 VILLA DOLO	10528	5 PG	4516
9 14	9 0 4.6910	1	17 47 31.701	-19 49 30.09	4	9012 MAUI	11277	4 BN	5891
9 14	9 0 24.6910	1	17 52 26.829	-20 42 55.35	4	9012 MAUI	11277	9 BN	5892
9 14	17 32 8.7626	1	16 59 32.737	-18 55 48.44	4	9008 SHIRAZ	14097	9 BA	4771
9 14	17 32 16.7632	1	17 2 29.104	-19 19 44.38	4	9008 SHIRAZ	14097	10 BA	4772
9 14	18 19 3.6575	1	23 20 11.967	-27 14 17.96	4	9003 WOOMERA	15856	3 PL	4501
9 14	18 19 19.6565	1	23 24 3.273	-27 39 0.96	4	9003 WOOMERA	15856	5 PL	4502
9 14	18 38 29.0170	1	7 4 46.558	-17 48 28.70	4	9003 WOOMERA	15857	5 PL	4503
9 14	18 38 37.0174	1	7 7 18.582	-17 25 16.41	4	9003 WOOMERA	15857	6 PL	7712
9 15	0 48 34.0147	1	0 2 13.146	-40 38 24.75	4	9002 OLIFANTS	14527	3 BN	4300
9 15	0 49 6.0145	1	0 13 46.848	-41 34 22.60	4	9002 OLIFANTS	14527	5 BN	5491
9 15	3 16 23.8984	1	3 57 33.878	-37 53 11.11	4	9002 OLIFANTS	14533	6 BN	4302
9 15	3 16 31.8998	1	4 2 7.140	-37 42 11.68	4	9002 OLIFANTS	14533	7 BN	4303
9 15	7 17 35.5569	1	23 47 15.289	-29 30 44.54	4	9011 VILLA DOLO	10551	4 PG	4517
9 15	7 17 51.5563	1	23 51 58.551	-29 54 49.84	4	9011 VILLA DOLO	10551	5 PG	4518
9 15	8 47 29.3173	1	17 41 55.644	-22 31 24.04	4	9012 MAUI	11295	3 DM	5893
9 15	8 47 41.3170	1	17 44 57.230	-23 4 37.36	4	9012 MAUI	11295	6 DM	5894
9 15	15 56 28.2118	1	2 44 2.901	-32 48 12.84	4	9003 WOOMERA	15880	4 PL	4505
9 15	15 56 44.2113	1	2 49 54.381	-32 45 6.77	4	9003 WOOMERA	15880	6 LT	7713
9 15	17 18 57.1103	1	16 39 57.451	-19 44 36.60	4	9008 SHIRAZ	14109	4 BA	4773
9 15	17 19 13.1109	1	16 45 57.124	-20 34 29.63	4	9008 SHIRAZ	14109	6 BA	5525
9 15	18 25 17.0168	1	6 51 7.268	-17 37 10.44	4	9003 WOOMERA	15886	3 PL	4507
9 15	18 25 25.0166	1	6 53 34.146	-17 14 49.39	4	9003 WOOMERA	15886	4 PL	4508
9 16	0 35 57.7243	1	0 16 8.348	-42 29 21.37	4	9002 OLIFANTS	14550	8 BN	4932
9 16	2 8 41.1933	1	19 34 8.207	24 27 36.46	4	9007 AREQUIPA	10097	6 MY	4683
9 16	2 8 49.1933	1	19 37 4.323	24 2 11.75	4	9007 AREQUIPA	10097	7 MY	4684
9 16	7 4 51.4086	1	23 54 47.265	-31 5 49.10	4	9011 VILLA DOLO	10568	4 PG	4519
9 16	7 4 59.4084	1	23 57 17.622	-31 16 54.67	4	9011 VILLA DOLO	10568	5 PG	4520
9 16	8 36 20.6365	1	17 58 39.205	-29 18 55.64	4	9012 MAUI	11304	5 DM	7327
9 16	8 36 32.6364	1	18 1 50.029	-29 52 38.02	4	9012 MAUI	11304	8 DM	5896
9 16	15 44 18.8980	1	3 5 22.983	-32 30 31.69	4	9003 WOOMERA	15903	5 PL	4509
9 16	15 44 34.8972	1	3 10 51.452	-32 21 52.33	4	9003 WOOMERA	15903	7 PL	7714

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 9 16	17 7 8.4631	1	16 51 5.490	-24 50 5.85	9008 SHIRAZ	14122	2 BA	4775
9 16	17 7 56.4654	1	17 9 43.581	-27 21 27.64	9008 SHIRAZ	14122	8 BA	4776
9 16	17 53 52.6561	1	23 35 19.629	-30 52 32.52	9003 WOOMERA	15908	3 PL	7715
9 16	17 54 8.6561	1	23 39 51.938	-31 14 36.48	9003 WOOMERA	15908	5 PL	4512
9 16	18 13 33.0259	1	7 3 9.490	-13 24 36.50	9003 WOOMERA	15909	6 PL	5136
9 16	18 13 49.0260	1	7 7 24.492	-12 43 0.09	9003 WOOMERA	15909	8 PL	5137
9 17	0 23 35.9294	1	C 38 0.868	-44 17 38.92	9002 OLIFANTS	14563	5 BN	4933
9 17	0 23 51.9306	1	C 44 44.448	-44 35 39.13	9002 OLIFANTS	14563	7 BN	4934
9 17	1 57 4.8525	1	19 56 17.008	18 35 21.72	9007 AREQUIPA	10110	3 MY	5519
9 17	1 57 12.8525	1	19 59 18.998	18 5 40.78	9007 AREQUIPA	10110	4 MY	4686
9 17	9 27 3.1921	1	6 39 10.062	0 58 56.57	9011 VILLA DOLLO	10598	9 PG	4521
9 17	9 27 11.1919	1	6 42 20.247	1 26 43.37	9011 VILLA DOLLO	10598	10 PG	4522
9 17	10 35 3.6452	1	21 46 1.650	33 58 7.81	9003 WOOMERA	15915	9 PL	5139
9 17	14 42 12.1628	1	16 2 53.528	-20 48 20.87	9006 NAINI TAL	8533	4 DM	5521
9 17	14 42 20.1629	1	16 6 27.504	-21 17 56.44	9006 NAINI TAL	8533	5 DM	4919
9 17	16 56 8.1608	1	17 22 6.493	-32 26 44.79	9008 SHIRAZ	14135	6 BA	4778
9 17	18 0 11.8309	1	6 48 9.780	-13 28 1.15	9003 WOOMERA	15931	3 PL	5140
9 17	18 0 27.8313	1	6 52 17.114	-12 47 54.18	9003 WOOMERA	15931	5 PL	5141
9 17	22 19 45.7626	1	16 33 51.967	30 9 40.59	9009 CURACAO	9048	9 VD	4788
9 18	1 45 26.0145	1	19 54 33.774	-41 52 46.47	9009 CURACAO	9049	2 VD	4789
9 18	1 45 50.0142	1	20 4 11.172	-42 51 2.71	9009 CURACAO	9049	5 VD	4790
9 18	6 39 35.3728	1	C 17 55.647	-33 54 17.39	9011 VILLA DOLLO	10614	6 PG	4523
9 18	6 39 43.3727	1	0 20 47.071	-34 2 2.68	9011 VILLA DOLLO	10614	7 PG	4524
9 18	12 35 4.4088	1	19 30 41.932	25 46 14.06	9003 WOOMERA	15950	3 PL	5142
9 18	12 35 20.4085	1	19 35 26.887	25 9 32.75	9003 WOOMERA	15950	5 PL	5143
9 18	14 30 3.4814	1	16 6 38.816	-25 1 50.92	9006 NAINI TAL	8548	4 DM	4920
9 18	14 30 19.4821	1	16 14 2.718	-26 2 38.87	9006 NAINI TAL	8548	6 DM	4921
9 18	14 37 23.3566	1	19 25 50.515	-44 55 3.11	9006 NAINI TAL	8549	4 DM	4922
9 18	17 28 31.7492	1	23 53 30.166	-33 38 50.01	9003 WOOMERA	15958	3 PL	5144
9 18	17 28 47.7486	1	23 58 44.145	-33 56 3.70	9003 WOOMERA	15958	5 PL	5145
9 19	0 1 25.0440	1	2 37 42.152	-45 17 16.45	9002 OLIFANTS	14616	6 BN	5523
9 19	1 29 48.2225	1	19 4 44.072	21 28 4.80	9007 AREQUIPA	10148	7 SU	4687
9 19	1 29 56.2228	1	19 8 8.023	20 57 27.58	9007 AREQUIPA	10148	8 SU	4688
9 19	6 37 18.2306	1	4 33 3.969	-27 25 59.02	9011 VILLA DOLLO	10644	3 LT	4525
9 19	6 37 34.2306	1	4 38 22.535	-26 54 31.08	9011 VILLA DOLLO	10644	5 LT	4526
9 19	8 51 C.0490	1	2 27 53.839	-22 56 3.72	9011 VILLA DOLLO	10653	4 PG	4527
9 19	8 51 8.0491	1	2 30 48.655	-22 46 35.08	9011 VILLA DOLLO	10653	5 PG	4528
9 19	12 23 53.1497	1	19 54 50.349	20 45 17.02	9003 WOOMERA	15979	4 MY	5514
9 19	12 24 1.1497	1	19 57 22.164	20 23 56.89	9003 WOOMERA	15979	5 MY	5147
9 19	18 53 19.6377	1	21 4 11.966	13 56 15.77	9002 OLIFANTS	14632	3 BN	4936
9 19	18 53 43.6375	1	21 12 45.148	12 27 28.36	9002 OLIFANTS	14632	6 BN	4937
9 19	23 45 30.2794	1	1 26 57.187	-45 55 39.03	9002 OLIFANTS	14638	4 LD	6250
9 19	23 46 10.2798	1	1 44 59.552	-45 51 27.51	9002 OLIFANTS	14638	9 LD	6251
9 20	5 29 17.1958	1	18 22 45.401	-35 12 11.54	9012 MAJI	11316	3 DM	5897
9 20	5 29 37.1958	1	18 34 55.478	-36 14 6.13	9012 MAJI	11316	8 DM	5898

DATE		TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS. NO.		
Y	M	D	H	M	S	MS	H	M	S	D	M	S						
1963	9	20	8	38	35.5140	1	2	43	9.731	-21	4	50.99	4	9011	VILLA DOLO	10668	3 PG	4529
	9	20	8	38	43.5140	1	2	46	3.522	-20	52	44.32	4	9011	VILLA DOLO	10668	4 PG	5518
	9	20	14	55	2.5991	1	3	57	52.206	-27	45	48.74	4	9003	WOOMERA	15984	4 PL	5148
	9	20	14	55	18.2575	1	4	1	37.892	-27	26	52.49	4	9003	WOOMERA	15984	5 PL	5149
	9	20	17	3	32.6536	1	0	25	0.032	-35	40	38.41	4	9003	WOOMERA	15985	5 LT	5151
9	20	18	41	54.5923	1	21	33	5.374		6	52	27.06	4	9002	OLIFANTS	14653	5 LD	7321
9	20	18	42	2.5925	1	21	35	57.890		6	22	29.15	4	9002	OLIFANTS	14653	6 LD	6253
9	20	23	32	39.2465	1	1	39	52.976		-45	40	43.95	4	9002	OLIFANTS	14658	5 LD	6254
9	20	23	32	47.2465	1	1	43	26.432		-45	37	54.43	4	9002	OLIFANTS	14658	6 LD	6255
9	21	1	6	25.0716	1	19	51	48.129		8	3	58.03	4	9007	AREQUIPA	10191	7 SU	4689
9	21	1	6	33.0712	1	19	55	32.011		7	24	28.08	4	9007	AREQUIPA	10191	8 SU	4690
9	21	5	16	48.2898	1	18	22	17.532		-38	55	0.26	4	9012	MAUI	11327	3 DM	8131
9	21	5	16	56.2899	1	18	27	22.156		-39	18	10.03	4	9012	MAUI	11327	5 DM	5900
9	21	6	11	24.5222	1	4	32	59.873		-24	25	14.98	4	9011	VILLA DOLO	10682	7 PG	4748
9	21	6	11	32.5220	1	4	35	19.145		-24	9	24.60	4	9011	VILLA DOLO	10682	8 PG	4749
9	21	16	51	13.0921	1	0	46	44.687		-36	4	36.63	4	9003	WOOMERA	16001	7 LT	5515
9	21	16	51	21.0915	1	0	49	51.025		-36	5	46.98	4	9003	WOOMERA	16001	8 LT	7717
9	21	18	31	14.1771	1	22	18	50.570		-2	44	7.22	4	9002	OLIFANTS	14662	8 LD	6256
9	21	18	31	22.1770	1	22	21	35.567		-3	10	13.48	4	9002	OLIFANTS	14662	9 LD	6257
9	21	23	20	22.9506	1	2	7	25.992		-44	40	16.58	4	9002	OLIFANTS	14673	7 LD	6258
9	21	23	20	30.9502	1	2	10	49.998		-44	33	14.20	4	9002	OLIFANTS	14673	8 LD	6259
9	22	0	53	6.4268	1	19	31	23.998		8	34	6.39	4	9007	AREQUIPA	10203	4 SU	4691
9	22	0	53	10.4270	1	19	33	24.091		8	13	14.43	4	9007	AREQUIPA	10203	5 SU	4692
9	22	0	56	7.1875	1	20	4	45.077		21	41	4.01	4	9011	VILLA DOLO	10695	4 PG	4750
9	22	0	56	15.1874	1	20	7	43.698		21	14	57.47	4	9011	VILLA DOLO	10695	5 PG	4751
9	22	1	30	57.9227	1	23	8	3.091		-32	52	2.65	4	9002	OLIFANTS	14677	5 LD	6260
9	22	1	31	29.9227	1	23	15	51.866		-33	16	11.83	4	9002	OLIFANTS	14677	7 LD	6261
9	22	5	58	32.3911	1	4	33	46.862		-22	39	49.27	4	9011	VILLA DOLO	10699	3 PG	4752
9	22	11	50	27.3686	1	21	31	25.703		0	42	2.05	4	9003	WOOMERA	16019	3 LT	7718
9	22	11	50	35.3690	1	21	34	25.159		0	15	50.30	4	9003	WOOMERA	16019	5 LT	7719
9	22	16	38	39.9241	1	1	4	6.834		-35	53	25.25	4	9003	WOOMERA	16024	8 BA	4835
9	22	16	38	47.9240	1	1	7	15.733		-35	51	40.29	4	9003	WOOMERA	16024	9 BA	4836
9	22	20	29	44.0088	1	19	9	47.754		-8	38	58.30	4	9002	OLIFANTS	14694	9 LD	6262
9	22	20	30	14.3090	1	19	18	39.456		-10	14	23.51	4	9002	OLIFANTS	14694	12 LD	6263
9	22	23	8	17.5585	1	2	37	0.081		-42	40	48.46	4	9002	OLIFANTS	14696	8 LD	6264
9	22	23	8	25.5590	1	2	40	6.821		-42	29	57.71	4	9002	OLIFANTS	14696	9 LD	6265
9	23	0	42	19.8732	1	20	28	13.143		-4	29	52.71	4	9007	AREQUIPA	10221	7 SU	4693
9	23	0	42	23.8729	1	20	30	14.505		-4	50	27.42	4	9007	AREQUIPA	10221	8 SU	4694
9	23	1	17	43.3044	1	23	5	34.288		-33	4	49.00	4	9002	OLIFANTS	14700	5 LD	6266
9	23	1	18	15.3044	1	23	13	40.026		-33	26	47.79	4	9002	OLIFANTS	14700	7 LD	6267
9	23	1	41	56.1350	1	6	58	30.308		3	3	43.50	4	9002	OLIFANTS	14703	4 LD	6714
9	23	1	43	0.1362	1	7	14	24.645		5	48	0.35	4	9002	OLIFANTS	14703	8 LD	6715
9	23	2	56	51.7193	1	18	18	12.434		-18	7	59.62	4	9007	AREQUIPA	10227	3 MY	5667
9	23	2	57	7.7195	1	18	22	37.762		-19	6	21.92	4	9007	AREQUIPA	10227	5 MY	5668
9	23	11	39	44.1941	1	22	20	1.898		-7	33	13.77	4	9003	WOOMERA	16032	4 GL	4837

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	9 23	11 39 52.1939	22 23 0.175	- 7 55 29.81	4	9003 WOOMERA	16032	6 GL	4838
9 23	18 9 18.1182	1	23 34 25.560	-15 38 7.30	4	9002 OLIFANTS	14717	5 LD	6716
9 23	18 9 26.1186	1	23 36 46.192	-15 52 9.66	4	9002 OLIFANTS	14717	6 LD	6717
9 23	20 17 57.6397	1	19 22 54.126	-14 0 31.00	4	9002 OLIFANTS	14723	8 LD	6718
9 23	20 18 13.6406	1	19 22 10.366	-14 54 43.14	4	9002 OLIFANTS	14723	10 LD	6719
9 24	0 30 30.2168	1	20 56 0.788	-11 58 8.07	4	9007 AREQUIPA	10238	5 SU	4695
9 24	0 30 42.2166	1	21 2 6.806	-12 53 11.05	4	9007 AREQUIPA	10238	8 SU	4696
9 24	1 5 48.3105	1	23 24 28.386	-33 58 59.09	4	9002 OLIFANTS	14728	3 LD	6720
9 24	1 6 4.3092	1	23 28 55.707	-34 6 38.62	4	9002 OLIFANTS	14728	4 GL	8128
9 24	5 32 49.5359	1	4 34 16.768	-18 57 11.74	4	9011 VILLA DOLO	10709	3 PG	4753
9 24	5 23 5.5355	1	4 38 1.719	-18 26 14.77	4	9011 VILLA DOLO	10709	4 PG	4754
9 24	7 48 28.1361	1	4 19 38.973	-37 43 59.44	4	9007 AREQUIPA	10246	5 MY	5659
9 24	7 48 44.1360	1	4 25 30.912	-37 3 37.36	4	9007 AREQUIPA	10246	7 MY	5670
9 24	11 27 59.8117	1	22 47 1.865	-11 58 47.08	4	9003 WOOMERA	16047	5 GL	4839
9 24	11 28 3.8116	1	22 48 29.988	-12 8 6.27	4	9003 WOOMERA	16047	6 GL	4840
9 24	13 37 20.1952	1	19 14 59.160	- 8 56 17.44	4	9003 WOOMERA	16053	6 GL	4841
9 24	13 37 36.1953	1	19 19 20.954	- 9 39 5.37	4	9003 WOOMERA	16053	8 GL	4842
9 24	16 14 22.5684	1	1 57 20.739	-33 13 8.28	4	9003 WOOMERA	16055	7 GL	4843
9 24	16 14 46.5681	1	2 6 17.246	-32 44 44.74	4	9003 WOOMERA	16055	10 GL	4844
9 24	20 7 57.2484	1	20 22 5.678	-25 53 35.18	4	9002 OLIFANTS	14745	7 LD	6722
9 24	20 8 13.2483	1	20 28 52.359	-26 46 2.02	4	9002 OLIFANTS	14745	9 LD	6723
9 24	22 44 5.9612	1	3 23 49.288	-36 44 48.71	4	9002 OLIFANTS	14746	4 LD	6724
9 24	22 44 21.9610	1	3 28 40.415	-36 13 57.17	4	9002 OLIFANTS	14746	5 LD	6725
9 25	0 18 7.1658	1	21 8 9.415	-16 30 12.12	4	9007 AREQUIPA	10255	2 MY	5671
9 25	0 18 11.1656	1	21 10 15.766	-16 47 10.11	4	9007 AREQUIPA	10255	3 MY	5672
9 25	2 32 48.0089	1	18 29 8.470	-28 46 29.71	4	9007 AREQUIPA	10260	4 MY	7323
9 25	2 33 4.0087	1	18 34 42.482	-29 52 44.86	4	9007 AREQUIPA	10260	6 MY	5674
9 25	11 17 37.2629	1	23 41 55.137	-17 43 13.86	4	9003 WOOMERA	16077	4 GL	4845
9 25	11 17 45.2623	1	23 44 30.880	-17 53 45.45	4	9003 WOOMERA	16077	5 GL	4846
9 25	13 26 53.5917	1	19 52 46.254	-17 8 51.22	4	9003 WOOMERA	16082	7 GL	4847
9 25	13 27 1.5918	1	19 55 27.499	-17 31 55.42	4	9003 WOOMERA	16082	9 GL	4848
9 25	16 2 37.9725	1	2 29 42.428	-30 9 22.20	4	9003 WOOMERA	16084	9 GL	4849
9 25	16 2 53.9723	1	2 35 9.905	-29 43 52.84	4	9003 WOOMERA	16084	11 GL	4850
9 26	0 9 17.8429	1	22 58 12.272	-29 11 47.96	4	9007 AREQUIPA	10267	2 MY	5675
9 26	0 9 25.8429	1	23 1 12.263	-29 21 58.87	4	9007 AREQUIPA	10267	3 MY	5676
9 26	7 23 59.9395	1	4 48 40.936	-28 34 0.08	4	9007 AREQUIPA	10274	1 MY	5677
9 26	7 24 7.9396	1	4 51 5.014	-28 11 14.84	4	9007 AREQUIPA	10274	2 BA	374
9 26	13 15 53.3931	1	20 30 58.299	-24 8 24.50	4	9003 WOOMERA	16103	7 GL	4851
9 26	13 16 1.3931	1	20 34 14.120	-24 30 36.98	4	9003 WOOMERA	16103	9 GL	4852
9 26	15 50 56.1805	1	2 58 31.927	-26 14 32.73	4	9003 WOOMERA	16105	12 GL	4853
9 26	15 51 4.1805	1	3 0 57.878	-25 59 45.60	4	9003 WOOMERA	16105	14 GL	4854
9 26	19 45 28.3942	1	22 1 11.682	-38 46 40.93	4	9002 OLIFANTS	14784	4 GL	6726
9 26	19 45 44.3945	1	22 9 53.871	-39 11 44.52	4	9002 OLIFANTS	14784	5 GL	8833
9 26	23 53 21.6122	1	21 35 26.567	-24 40 41.52	4	9007 AREQUIPA	10286	3 MY	7324
9 26	23 53 29.6121	1	21 39 44.967	-25 5 11.61	4	9007 AREQUIPA	10286	4 MY	5680

DATE Y M D	TIME (A-L)			RMS MS	R.A.(1950.0)			DECL.(1950.0)			STATION	FRAME NO.	MS	OBS.NO.
	H	M	S		H	M	S	D	M	S				
1963 9 27	3	3	58.3119	1	4 42	2.594		23 13	10.01	4	9002	OLIFANTS	14802	4 GL 6728
9 27	3	4	14.3118	1	4 46	50.449		24 2	37.10	4	9002	OLIFANTS	14802	6 GL 8834
9 27	7	12	22.1362	1	5 9	9.948		-22 3	50.46	4	9007	AREQUIPA	10290	4 MY 5681
9 27	7	12	38.1361	1	5 13	23.238		-21 17	41.78	4	9007	AREQUIPA	10290	6 MY 5682
9 27	9	28	6.2745	1	3 14	47.747		- 6 33	49.69	4	9007	AREQUIPA	10298	6 HC 4832
9 27	9	28	30.2737	1	3 21	44.570		- 5 23	39.32	4	9007	AREQUIPA	10298	9 HC 4833
9 27	19	33	47.7180	1	22 47	36.459		-41 34	50.95	4	9002	OLIFANTS	14812	7 GL 6730
9 27	19	34	3.7185	1	22 56	22.237		-41 42	57.03	4	9002	OLIFANTS	14812	9 GL 6731
9 28	1	56	29.3751	1	19 1	13.272		-45 32	54.18	4	9007	AREQUIPA	10304	4 HC 4834
9 28	6	58	37.3280	1	4 2	14.729		1 19	59.00	4	9011	VILLA DOL	10717	4 PG 4755
9 28	6	58	45.3278	1	4 4	18.212		1 37	59.90	4	9011	VILLA DOL	10717	5 PG 4756
9 28	16	53	24.2940	1	17 45	2.142		26 55	11.52	4	9002	OLIFANTS	14830	6 LD 6988
9 28	16	53	32.2939	1	17 50	5.763		26 19	7.62	4	9002	OLIFANTS	14830	7 LD 6989
9 28	19	22	44.1533	1	23 52	49.356		-42 8	44.01	4	9002	OLIFANTS	14837	6 LD 6990
9 28	19	22	52.1528	1	23 56	38.918		-42 3	19.31	4	9002	OLIFANTS	14837	7 LD 6991
9 29	0	7	9.7294	1	1 49	39.868		-26 25	14.30	4	9002	OLIFANTS	14842	7 PG 8132
9 29	0	7	17.7298	1	1 52	20.553		-26 11	22.40	4	9002	OLIFANTS	14842	8 PG 6993
9 29	9	1	58.2243	1	3 10	30.961		- 2 11	48.65	4	9007	AREQUIPA	10338	4 PL 5901
9 29	9	2	6.2241	1	3 12	43.232		- 1 48	28.68	4	9007	AREQUIPA	10338	5 PL 5902
9 29	17	26	19.1521	1	1 21	4.809		-13 7	9.81	4	9003	WOMERA	16138	7 GL 5367
9 29	17	26	27.1519	1	1 23	21.561		-12 53	58.76	4	9003	WOMERA	16138	8 GL 5368
9 30	1	32	30.3874	1	20 0	8.298		-56 45	36.98	4	9007	AREQUIPA	10350	7 PL 5904
9 30	8	49	57.8267	1	3 25	40.822		3 12	46.69	4	9007	AREQUIPA	10359	4 PL 5905
9 30	8	50	13.8262	1	3 30	5.408		4 1	22.48	4	9007	AREQUIPA	10359	6 PL 7328

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 7 1	3 3 22.0258	1	21 5 42.689	24 57 31.11	4	9010 JUPITER	9831	3 KA	7288
7 1	5 1 8.5345	1	20 21 20.228	14 58 17.40	4	9001 ORGAN PASS	10892	6 VG	6434
7 1	18 47 45.2322	1	20 5 47.473	31 21 45.20	4	9008 SHIRAZ	12642	4 FI	8211
7 1	18 47 54.8038	1	20 12 37.858	31 58 52.36	4	9008 SHIRAZ	12642	6 FI	7270
7 1	20 50 17.0485	1	15 59 21.852	64 17 20.50	4	9008 SHIRAZ	12650	7 FI	8212
7 1	20 50 19.4405	1	16 1 15.800	64 39 36.87	4	9008 SHIRAZ	12650	8 FI	7272
7 2	C 18 6.4267	1	13 34 15.400	-28 35 59.38	4	9007 AREQUIPA	9169	4 NG	7129
7 2	C 18 22.4262	1	13 46 39.273	-25 54 3.99	4	9007 AREQUIPA	9169	8 NG	7130
7 2	2 53 46.1065	1	19 49 39.806	80 22 4.31	4	9004 SAN FERNAN	8838	5 AC	6248
7 2	2 53 54.1065	1	20 22 32.854	80 44 58.39	4	9004 SAN FERNAN	8838	7 AC	6249
7 2	6 44 52.6057	1	14 6 51.485	77 12 24.17	4	9010 JUPITER	9858	3 SE	7290
7 2	6 45 C.6058	1	14 5 0.201	78 15 41.75	4	9010 JUPITER	9858	4 SE	7291
7 2	16 21 17.0494	1	17 51 52.391	2 11 16.93	4	9006 NAINI TAL	8215	2 JV	8214
7 2	16 21 33.0497	1	18 1 45.616	4 16 5.36	4	9006 NAINI TAL	8215	6 JV	6003
7 2	18 20 17.9415	1	17 57 58.967	9 52 38.93	4	9008 SHIRAZ	12666	5 KA	6329
7 2	18 20 20.3541	1	17 59 35.801	10 11 52.11	4	9008 SHIRAZ	12666	6 KA	6330
7 2	20 24 41.9590	1	15 23 41.771	54 49 7.68	4	9008 SHIRAZ	12672	1 KA	8220
7 2	20 24 44.3600	1	15 25 2.710	55 12 41.87	4	9008 SHIRAZ	12672	2 KA	7208
7 2	22 17 40.8489	1	18 20 12.577	0 45 31.12	4	9004 SAN FERNAN	8845	4 KA	6670
7 2	22 17 44.8480	1	18 22 35.689	1 11 24.02	4	9004 SAN FERNAN	8845	5 KA	6245
7 2	23 54 10.3753	1	14 10 23.126	-25 43 13.83	4	9007 AREQUIPA	9187	3 VG	7131
7 2	23 54 14.3751	1	14 13 16.388	-24 58 51.47	4	9007 AREQUIPA	9187	4 NG	8225
7 3	2 29 2.9271	1	19 36 45.450	80 12 57.05	4	9004 SAN FERNAN	8864	4 AC	6246
7 3	2 29 14.9270	1	20 26 17.808	80 42 2.43	4	9004 SAN FERNAN	8864	7 AC	6247
7 3	4 8 9.4087	1	18 5 58.902	-11 30 8.63	4	9001 ORGAN PASS	10914	3 VG	6435
7 3	4 8 11.4081	1	18 6 57.160	-11 17 26.96	4	9001 ORGAN PASS	10914	4 VG	7197
7 3	4 13 34.0106	1	16 22 37.235	48 55 46.58	4	9010 JUPITER	9875	3 KA	7293
7 3	6 12 41.3399	1	16 37 57.133	39 0 16.62	4	9001 ORGAN PASS	10918	4 VG	6437
7 3	8 18 39.5895	1	15 19 10.409	70 34 21.56	4	9001 ORGAN PASS	10926	2 VG	6438
7 3	8 18 45.5903	1	15 22 24.733	71 28 49.64	4	9001 ORGAN PASS	10926	5 TA	6439
7 3	10 26 5.9602	1	23 32 18.399	84 33 5.98	4	9001 ORGAN PASS	10931	2 TA	6440
7 3	10 26 13.9601	1	0 12 14.596	83 48 8.93	4	9001 ORGAN PASS	10931	6 TA	6441
7 3	14 6 43.0288	1	17 7 57.366	43 34 46.17	4	9005 TOKYO	8569	5 SC	6020
7 3	14 7 2.4751	1	17 26 59.378	46 20 38.15	4	9005 TOKYO	8569	10 SC	6021
7 3	17 54 57.1328	1	17 26 14.812	0 47 54.30	4	9008 SHIRAZ	12688	5 AC	6879
7 3	17 54 59.5279	1	17 27 43.583	1 6 57.23	4	9008 SHIRAZ	12688	6 AC	6880
7 3	20 0 9.9562	1	15 28 14.617	55 12 19.02	4	9008 SHIRAZ	12692	3 AC	6881
7 3	20 0 17.1399	1	15 33 8.365	56 22 28.67	4	9008 SHIRAZ	12692	6 KA	6882
7 3	21 53 59.2253	1	18 44 7.193	4 2 32.51	4	9004 SAN FERNAN	8871	4 KA	6243
7 3	21 54 7.2253	1	18 48 45.269	4 50 12.29	4	9004 SAN FERNAN	8871	6 KA	6244
7 3	22 7 51.6152	1	13 41 40.854	85 35 24.33	4	9008 SHIRAZ	12701	5 VG	6883
7 3	22 7 56.4005	1	13 32 29.731	86 13 41.84	4	9008 SHIRAZ	12701	6 VG	6884
7 3	23 29 31.0251	1	14 14 27.708	-30 3 5.20	4	9007 AREQUIPA	9199	3 RD	7133
7 3	23 29 39.0249	1	14 20 4.514	-28 33 14.86	4	9007 AREQUIPA	9199	5 RD	8226
7 3	23 57 27.6852	1	16 58 20.556	46 7 11.69	4	9004 SAN FERNAN	8880	3 RD	6241

DATE Y M D	TIME (A-1)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.
	H	M	S		H	M	S	D	M	S				
1963	7	3	23 57 31.6853	1	17	2	7.985	46	42	29.58	9004	SAN FERNAN	8880	5 RD 6242
	7	4	0 3 2.3233	1	23	33	10.158	51	1	12.55	9004	SAN FERNAN	8881	3 RD 6239
	7	4	0 3 14.3233	1	23	40	23.604	50	11	17.87	9004	SAN FERNAN	8881	6 RD 6240
	7	4	0 15 0.9675	1	2	21	57.146	77	0	56.38	9008	SHIRAZ	12705	2 KA 6885
	7	4	0 15 3.3623	1	2	24	12.461	76	40	4.57	9008	SHIRAZ	12705	3 KA 6886
	7	4	1 42 1.7946	1	14	54	30.101	16	36	56.34	9009	CURACAO	8159	1 FI 7145
	7	4	1 42 3.7946	1	14	55	42.316	16	58	49.15	9009	CURACAO	8159	2 FI 7146
	7	4	2 4 6.2256	1	18	36	56.466	78	58	24.74	9004	SAN FERNAN	8890	5 RD 6237
	7	4	2 4 10.2253	1	18	50	7.427	79	18	24.92	9004	SAN FERNAN	8890	6 RD 6238
	7	4	3 48 26.2218	1	16	2	19.222	41	48	53.95	9010	JUPITER	9897	3 JV 7294
	7	4	3 48 30.2219	1	16	5	28.081	42	28	23.87	9010	JUPITER	9897	4 JV 7295
	7	4	5 54 52.7239	1	13	58	50.787	73	3	20.05	9010	JUPITER	9903	2 JV 7296
	7	4	5 55 16.7237	1	14	0	28.015	76	21	38.79	9010	JUPITER	9903	5 JV 7297
	7	4	7 38 49.0017	1	16	12	23.506	13	22	22.29	9012	MAUI	10053	4 KA 7210
	7	4	7 38 53.0016	1	16	15	5.951	14	2	50.23	9012	MAUI	10053	6 KA 6869
	7	4	8 3 20.1411	1	4	39	11.533	81	41	44.14	9010	JUPITER	9909	2 JV 7298
	7	4	8 3 36.1417	1	4	22	55.051	79	46	22.05	9010	JUPITER	9909	4 JV 8221
	7	4	23 50 46.2900	1	2	41	45.425	72	59	37.34	9008	SHIRAZ	12728	3 KA 6887
	7	4	23 50 51.0781	1	2	43	53.925	72	17	5.24	9008	SHIRAZ	12728	4 KA 6888
	7	5	3 46 39.6659	1	0	46	11.468	63	16	56.32	9004	SAN FERNAN	8916	6 RD 6235
	7	5	3 46 47.6655	1	0	54	36.031	62	5	16.13	9004	SAN FERNAN	8916	8 RD 6236
	7	5	9 19 52.7111	1	13	37	51.960	58	38	0.91	9012	MAUI	10083	5 KA 6870
	7	5	17 12 5.8964	1	15	42	13.614	49	4	54.79	9006	NAINI TAL	8238	3 JV 6671
	7	5	17 12 13.8970	1	15	48	56.844	50	22	24.56	9006	NAINI TAL	8238	5 JV 6005
	7	5	19 18 49.4747	1	13	58	56.746	78	31	5.29	9006	NAINI TAL	8247	3 JV 6006
	7	5	19 18 53.4749	1	13	59	22.632	79	5	5.57	9006	NAINI TAL	8247	4 JV 6007
	7	5	22 37 40.0180	1	11	6	19.309	-	4	31.42.02	9011	VILLA DOLO	9764	6 SC 7273
	7	5	23 7 49.7616	1	16	35	33.188	38	28	33.53	9004	SAN FERNAN	8922	4 RD 6234
	7	6	1 14 48.7493	1	18	45	33.082	78	48	43.08	9004	SAN FERNAN	8930	5 RD 6232
	7	6	1 15 0.7490	1	19	29	19.031	79	22	50.88	9004	SAN FERNAN	8930	8 RD 6669
	7	6	4 58 45.4472	1	16	36	35.090	29	50	29.68	9001	ORGAN PASS	10937	2 TA 6442
	7	6	4 58 55.4473	1	16	44	57.432	31	19	6.26	9001	ORGAN PASS	10937	8 TA 6443
	7	6	6 48 52.9479	1	15	49	48.548	-	1	17 6.45	9012	MAUI	10096	4 KA 6871
	7	6	6 48 56.9479	1	15	52	18.065	-	0	38 45.25	9012	MAUI	10096	6 KA 6872
	7	6	7 4 54.9824	1	15	25	48.240	73	19	33.34	9001	ORGAN PASS	10946	4 NG 6444
	7	6	18 46 28.7993	1	15	49	1.017	53	37	13.47	9008	SHIRAZ	12738	5 KA 6889
	7	6	18 46 31.1969	1	15	51	19.382	53	59	10.83	9008	SHIRAZ	12738	6 KA 7211
	7	6	23 0 35.8618	1	2	18	55.688	79	26	18.09	9008	SHIRAZ	12750	2 TA 6891
	7	6	23 0 45.5641	1	2	23	21.941	78	2	30.92	9008	SHIRAZ	12750	4 TA 6892
	7	7	0 28 7.6229	1	15	7	43.000	3	56	28.63	9009	CURACAO	8204	2 FI 7147
	7	7	0 28 9.6229	1	15	8	59.155	4	17	58.84	9009	CURACAO	8204	3 FI 7148
	7	7	0 49 7.8056	1	16	20	21.888	71	57	10.74	9004	SAN FERNAN	8961	5 SE 8213
	7	7	0 49 23.8056	1	16	47	8.917	74	5	15.48	9004	SAN FERNAN	8961	9 SE 6536
	7	7	2 55 49.4498	1	22	3	56.518	75	17	41.59	9004	SAN FERNAN	8967	3 SE 7198
	7	7	2 56 5.4498	1	22	44	28.214	74	0	11.92	9004	SAN FERNAN	8967	7 SE 6538

DATE Y M D	TIME (A-1)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.
	H	M	S		D	M	S	D	M	S				
1963 7 7	8	46	59.1065	1	22	26	18.159	87	8	8.99	9001	10952	5	6445
7 7	8	47	3.1065	1	23	3	36.646	86	46	46.46	9001	10952	7	6446
7 7	10	53	39.4573	1	23	56	19.782	60	49	59.51	9001	10959	2	6447
7 7	10	53	45.4564	1	C	3	34.342	60	1	21.03	9001	10959	5	6448
7 7	14	53	1.7009	1	0	49	19.598	69	53	54.02	9012	10147	7	6873
7 7	18	21	51.9391	1	15	54	27.745	51	47	22.99	9008	12759	5	6893
7 7	18	21	54.3449	1	15	56	54.106	52	8	46.50	9008	12759	6	6894
7 7	18	28	52.1984	1	13	44	4.176	74	14	15.27	9006	8258	2	6008
7 7	18	29	C.1986	1	13	46	23.418	75	24	9.15	9006	8258	4	8215
7 7	23	55	41.6850	1	11	35	31.719	18	26	24.62	9007	9241	2	7135
7 7	23	55	45.6848	1	11	37	25.340	18	59	30.59	9007	9241	3	7136
7 8	0	24	19.2613	1	16	4	14.234	70	36	21.92	9004	8987	3	6539
7 8	C	24	25.2616	1	16	12	59.347	71	26	32.57	9004	8987	6	6540
7 8	8	21	40.6564	1	16	6	5.994	85	47	20.27	9001	10970	4	6449
7 8	8	21	44.6568	1	16	25	17.800	86	17	22.66	9001	10970	6	6450
7 8	8	31	25.7658	1	2	7	50.725	64	49	10.65	9010	9957	5	7301
7 8	15	57	33.7191	1	15	19	10.137	35	41	40.50	9006	8268	3	6010
7 8	15	57	45.7196	1	15	28	43.519	37	40	31.00	9006	8268	6	6011
7 8	20	3	10.6745	1	13	38	58.774	77	20	55.39	9008	12793	2	6895
7 8	21	53	48.0025	1	16	21	28.724	28	54	46.71	9004	9010	3	6541
7 8	21	54	4.0007	1	16	35	20.154	31	6	9.43	9004	9010	7	6542
7 8	22	10	38.1657	1	2	12	33.173	83	35	59.03	9008	12800	3	7159
7 8	22	10	47.8145	1	2	13	58.014	82	14	18.32	9008	12800	5	7160
7 9	C	17	53.2057	1	0	35	1.972	51	5	18.23	9008	12806	3	7164
7 9	0	18	C.4256	1	0	40	51.953	49	55	58.31	9008	12806	6	7165
7 9	2	6	40.8230	1	22	34	33.900	75	33	19.28	9004	9030	3	6543
7 9	2	6	56.8280	1	23	8	47.946	73	43	8.43	9004	9030	7	6544
7 9	3	50	37.2276	1	13	33	40.357	66	39	0.55	9010	9970	2	7215
7 9	3	50	45.2277	1	13	37	26.683	67	51	54.29	9010	9970	3	8229
7 9	17	31	46.1989	1	15	15	9.558	38	54	9.52	9008	12811	4	7158
7 9	19	38	42.5629	1	13	47	43.886	79	32	25.76	9008	12819	2	8232
7 9	19	38	50.5628	1	13	54	35.628	80	41	54.77	9008	12819	4	7169
7 9	21	29	32.2496	1	16	37	0.901	28	38	16.57	9004	9039	4	6545
7 9	21	29	48.2497	1	16	51	23.404	30	38	22.53	9004	9039	8	6546
7 9	23	34	43.2398	1	15	35	56.916	67	38	42.42	9004	9051	4	7199
7 9	23	34	55.2396	1	15	52	32.451	69	20	6.78	9004	9051	7	7200
7 9	23	52	36.5746	1	C	4	37.072	58	28	34.20	9008	12830	2	7170
7 9	23	52	42.5754	1	0	10	31.723	57	35	8.35	9008	12830	5	8233
7 10	1	41	27.7821	1	20	58	2.870	78	38	55.31	9004	9057	5	6549
7 10	1	41	35.7820	1	21	25	4.640	78	10	35.15	9004	9057	7	6550
7 10	3	47	24.8442	1	22	14	16.971	45	13	34.33	9004	9064	4	6551
7 10	3	47	36.8440	1	22	27	17.991	43	51	42.55	9004	9064	7	6552
7 10	7	32	31.4776	1	18	10	16.524	88	2	56.63	9001	11020	3	6451
7 10	7	32	43.4789	1	21	39	33.824	87	51	39.44	9001	11020	6	6452
7 10	9	39	13.1242	1	23	32	52.881	68	25	24.36	9001	11026	3	6453

DATE			TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS.NO.		
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S						
1963	7	10	9	39	17.1249	1	23	38	21.234	67	53	2.38	4	9001	ORGAN PASS	11026	5	SC	6454
	7	10	17	7	8.6620	1	15	17	11.490	35	54	35.46	4	9008	SHIRAZ	12836	1	KA	7171
	7	10	19	13	37.8238	1	13	33	56.273	76	16	7.67	4	9008	SHIRAZ	12844	3	SE	7172
	7	10	19	13	49.8234	1	13	42	55.663	78	2	28.49	4	9008	SHIRAZ	12844	6	SE	7173
	7	10	23	28	5.1706	1	0	16	24.753	58	38	30.27	4	9008	SHIRAZ	12858	3	KA	7174
7	10	23	28	9.1718	1	0	19	53.424	58	1	12.49	4	9008	SHIRAZ	12858	5	KA	7175	
7	11	1	16	54.8707	1	21	22	57.016	78	37	27.85	4	9004	SAN FERNAN	9069	4	RD	6801	
7	11	1	17	6.8707	1	21	59	3.524	77	33	34.69	4	9004	SAN FERNAN	9069	7	RD	6802	
7	11	5	8	38.6181	1	9	39	23.148	85	3	19.23	4	9010	JUPITER	9995	1	BZ	7217	
7	11	5	8	54.6183	1	8	7	3.419	85	57	5.30	4	9010	JUPITER	9995	3	BZ	7218	
7	11	6	50	46.8533	1	13	8	50.206	43	14	50.97	4	9012	MAUI	10228	3	KA	6874	
7	11	6	50	58.8533	1	13	15	21.883	45	19	11.28	4	9012	MAUI	10228	9	KA	6875	
7	11	16	42	31.2314	1	15	18	41.914	32	34	26.27	4	9008	SHIRAZ	12861	1	SE	7176	
7	11	16	42	33.2312	1	15	20	24.353	32	53	16.87	4	9008	SHIRAZ	12861	2	SE	7177	
7	11	20	56	17.5186	1	2	17	45.946	84	22	7.62	4	9008	SHIRAZ	12875	3	SE	7178	
7	11	22	45	33.2997	1	15	45	41.883	67	39	33.37	4	9004	SAN FERNAN	9090	5	RD	6803	
7	11	22	45	37.2998	1	15	52	6.108	68	10	10.34	4	9004	SAN FERNAN	9090	6	RD	6804	
7	11	23	2	50.8847	1	23	47	17.086	64	55	24.64	4	9008	SHIRAZ	12880	4	SE	7179	
7	12	0	30	0.0050	1	12	10	23.083	44	52	55.99	4	9009	CURACAO	8305	2	FI	7150	
7	12	0	52	13.1426	1	21	17	42.126	78	59	48.29	4	9004	SAN FERNAN	9098	4	RD	8726	
7	12	0	52	25.1425	1	21	53	43.520	77	51	52.35	4	9004	SAN FERNAN	9098	7	RD	6805	
7	12	2	58	7.6569	1	22	9	24.556	50	31	46.40	4	9004	SAN FERNAN	9107	5	BZ	6784	
7	12	2	58	27.6569	1	22	31	40.565	48	0	57.16	4	9004	SAN FERNAN	9107	10	BZ	6785	
7	12	6	26	3.3402	1	13	8	17.955	40	33	39.93	4	9012	MAUI	10248	4	KA	6876	
7	12	22	19	58.4497	1	14	35	56.298	58	44	30.16	4	9004	SAN FERNAN	9122	4	BZ	6786	
7	12	22	20	6.4497	1	14	43	47.285	59	59	16.82	4	9004	SAN FERNAN	9122	6	BZ	6787	
7	12	22	38	6.6626	1	23	48	33.446	66	28	43.50	4	9008	SHIRAZ	12906	3	KA	7180	
7	12	22	38	12.7129	1	23	54	39.321	65	35	21.95	4	9008	SHIRAZ	12906	6	KA	8234	
7	13	0	4	28.7589	1	11	48	42.465	35	1	15.20	4	9009	CURACAO	8319	2	FI	7151	
7	13	0	4	30.7587	1	11	49	29.160	35	21	9.77	4	9009	CURACAO	8319	3	FI	8230	
7	13	0	26	43.4060	1	17	56	21.059	80	19	21.18	4	9004	SAN FERNAN	9130	3	NG	6788	
7	13	0	26	55.4060	1	18	46	44.405	80	42	59.39	4	9004	SAN FERNAN	9130	6	NG	6789	
7	13	8	39	13.2660	1	0	58	43.627	39	25	6.87	4	9009	CURACAO	8341	1	FI	7153	
7	13	12	26	5.6554	1	2	1	19.018	62	11	34.55	4	9012	MAUI	10272	4	KA	6877	
7	13	21	55	24.4590	1	14	38	14.738	58	35	2.22	4	9004	SAN FERNAN	9150	3	NG	6790	
7	13	21	55	36.4588	1	14	51	28.153	60	23	38.64	4	9004	SAN FERNAN	9150	6	NG	6791	
7	14	0	2	10.6717	1	18	23	55.716	80	59	53.41	4	9004	SAN FERNAN	9155	4	SE	6792	
7	14	0	2	18.6717	1	19	0	3.564	81	3	7.07	4	9004	SAN FERNAN	9155	6	SE	6793	
7	14	2	8	39.9982	1	21	54	41.878	56	4	29.61	4	9004	SAN FERNAN	9162	3	SE	7203	
7	14	2	8	47.9982	1	22	4	30.800	55	4	25.97	4	9004	SAN FERNAN	9162	5	SE	6794	
7	14	3	46	1.1536	1	14	2	20.376	52	21	14.23	4	9001	ORGAN PASS	11057	3	SC	6455	
7	14	3	46	7.1539	1	14	7	36.147	53	20	27.80	4	9001	ORGAN PASS	11057	6	SC	6456	
7	14	4	9	33.2649	1	18	50	23.733	23	21	1.81	4	9004	SAN FERNAN	9172	3	RD	6806	
7	14	4	9	45.2649	1	18	56	58.795	22	49	41.52	4	9004	SAN FERNAN	9172	6	RD	6807	
7	14	8	8	31.2252	1	23	27	29.194	45	47	51.56	4	9010	JUPITER	10037	1	BZ	7219	

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 14	8 8 51.2258	1	23 42 40.618	42 33 32.80	4	9010 JUPITER	10037 6	BZ 7220
	7 14	8 14 49.1671	1	1 10 53.023	39 0 10.48	4	9009 CJRACAD	8365 6	EM 7640
	7 14	8 14 53.1671	1	1 12 55.047	38 21 24.58	4	9009 CJRACAD	8365 8	EM 7641
	7 14	10 22 58.9012	1	C 27 2.000	35 2 51.73	4	9007 AREQUIPA	9326 4	EM 7137
	7 14	10 23 14.9012	1	0 35 18.771	33 32 14.04	4	9007 AREQUIPA	9326 8	EM 7138
	7 14	12 1 34.8533	1	1 58 9.863	60 40 59.43	4	9012 MAJI	10299 6	KA 6896
	7 14	21 30 57.6002	1	14 50 3.378	59 11 43.34	4	9004 SAN FERNAN	9178 4	RD 6808
	7 14	21 31 9.6004	1	15 5 15.476	60 52 42.26	4	9004 SAN FERNAN	9178 7	RD 6809
	7 14	21 48 57.2421	1	0 6 12.641	65 56 24.81	4	9008 SHIRAZ	12949 2	FI 7154
	7 14	23 37 42.3863	1	19 16 23.662	81 7 17.62	4	9004 SAN FERNAN	9186 4	TA 6810
	7 14	23 37 54.3865	1	20 7 30.309	80 32 23.62	4	9004 SAN FERNAN	9186 7	TA 6811
	7 15	1 21 41.9044	1	13 8 26.482	53 50 21.72	4	9010 JUPITER	10042 7	SC 7221
	7 15	1 21 45.9044	1	13 11 22.868	54 30 44.06	4	9010 JUPITER	10042 8	SC 7222
	7 15	3 22 27.4312	1	15 17 4.659	60 0 35.62	4	9001 ORGAN PASS	11075 7	NG 6457
	7 15	3 22 35.4341	1	15 28 29.454	60 56 4.57	4	9001 ORGAN PASS	11075 9	EM 6458
	7 15	3 48 22.4730	1	20 44 34.985	11 11 33.46	4	9004 SAN FERNAN	9203 4	TA 6812
	7 15	3 48 34.4731	1	20 52 23.695	9 57 12.21	4	9004 SAN FERNAN	9203 7	TA 211
	7 15	15 10 7.6475	1	12 53 58.138	60 51 10.48	4	9006 NAINI TAL	8279 3	AC 6012
	7 15	15 10 19.6479	1	13 2 45.791	62 48 59.26	4	9006 NAINI TAL	8279 6	SC 6013
	7 15	17 18 7.6851	1	4 2 55.452	87 37 27.76	4	9006 NAINI TAL	8294 4	BZ 6014
	7 15	17 18 31.6845	1	1 51 58.059	85 1 15.37	4	9006 NAINI TAL	8294 7	BZ 6015
	7 15	19 24 52.4316	1	23 58 53.687	74 11 49.57	4	9006 NAINI TAL	8298 1	BZ 6016
	7 15	19 25 0.4319	1	0 5 4.547	73 1 2.30	4	9006 NAINI TAL	8298 3	BZ 6017
	7 15	21 6 43.5281	1	15 22 16.529	60 57 10.20	4	9004 SAN FERNAN	9207 6	TA 8727
	7 15	21 6 51.5283	1	15 34 24.131	61 52 17.26	4	9004 SAN FERNAN	9207 8	KA 6813
	7 15	21 30 58.9895	1	22 3 13.481	31 12 52.24	4	9006 NAINI TAL	8309 2	SC 6018
	7 15	21 31 10.9899	1	22 12 56.041	29 28 17.26	4	9006 NAINI TAL	8309 5	SC 6019
	7 15	22 29 34.0724	1	21 48 55.872	24 29 23.18	4	9008 SHIRAZ	12995 3	JV 7408
	7 16	1 19 20.0653	1	21 51 18.901	59 39 39.75	4	9004 SAN FERNAN	9224 5	KA 6814
	7 16	1 19 28.0655	1	22 1 3.885	58 34 42.50	4	9004 SAN FERNAN	9224 7	KA 6815
	7 16	3 23 57.6365	1	20 44 48.779	12 45 23.80	4	9004 SAN FERNAN	9232 4	SC 6297
	7 16	3 24 5.6365	1	20 50 16.196	11 53 39.35	4	9004 SAN FERNAN	9232 6	SC 6298
	7 16	7 19 41.6039	1	23 52 44.345	44 57 44.71	4	9010 JUPITER	10069 2	SC 7223
	7 16	7 19 45.6040	1	23 55 3.964	44 17 45.91	4	9010 JUPITER	10069 3	SC 7224
	7 16	9 23 54.5625	1	21 22 25.102	- 4 35 46.73	4	9010 JUPITER	10082 1	SC 7225
	7 16	9 23 58.5626	1	21 24 29.805	- 5 4 54.89	4	9010 JUPITER	10082 2	SC 7226
	7 16	9 37 34.7009	1	2 31 17.254	11 10 52.57	4	9007 AREQUIPA	9354 5	EM 7139
	7 16	9 37 54.7002	1	2 41 28.961	8 19 13.96	4	9007 AREQUIPA	9354 10	EM 7140
	7 16	11 10 41.9688	1	1 44 43.805	71 28 34.73	4	9012 MAJI	10319 3	KA 6897
	7 16	11 10 49.9690	1	1 44 23.338	70 29 43.77	4	9012 MAJI	10319 5	KA 6898
	7 16	13 17 27.4205	1	23 15 37.144	38 34 22.53	4	9012 MAJI	10325 4	KA 6899
	7 16	13 17 31.4206	1	23 18 30.388	37 55 17.21	4	9012 MAJI	10325 6	KA 6900
	7 16	20 59 6.8854	1	23 50 25.587	70 48 21.45	4	9008 SHIRAZ	13014 3	JV 7409
	7 16	20 59 22.8861	1	C 0 25.846	68 22 54.28	4	9008 SHIRAZ	13014 7	JV 7410
	7 16	22 47 58.6118	1	17 24 22.473	81 9 54.58	4	9004 SAN FERNAN	9245 5	RD 8224

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	DBS.VO.
1963	7 16	22 48 10.6118	18 20 10.355	81 17 2.96	4	9004 SAN FERNAN	9245	8 NG	7128
7 17	0 54 43.2596	1	21 53 52.759	60 37 47.49	4	9004 SAN FERNAN	9255	4 BZ	6300
7 17	0 54 59.2599	1	22 11 50.371	58 19 36.00	4	9004 SAN FERNAN	9255	8 BZ	6301
7 17	9 12 51.8453	1	2 25 14.977	14 23 41.66	4	9007 AREQUIPA	9364	4 TA	7141
7 17	9 13 3.8450	1	2 30 57.601	12 45 9.37	4	9007 AREQUIPA	9364	7 TA	7142
7 17	22 23 9.8485	1	16 44 5.782	80 47 6.09	4	9004 SAN FERNAN	9276	5 BZ	6299
7 18	0 29 8.7826	1	20 30 18.240	68 30 35.45	4	9004 SAN FERNAN	9284	3 SC	8217
7 18	0 29 16.7827	1	20 44 57.715	67 42 21.42	4	9004 SAN FERNAN	9284	5 SC	6296
7 18	2 35 1.5671	1	20 45 8.860	16 40 59.99	4	9004 SAN FERNAN	9293	3 SC	6294
7 18	2 35 9.5671	1	20 51 0.778	15 44 27.48	4	9004 SAN FERNAN	9293	5 SC	6295
7 18	6 20 13.5359	1	21 13 54.879	84 22 40.94	4	9001 ORGAN PASS	11088	3 EM	6459
7 18	6 20 15.5369	1	21 22 56.565	84 9 25.20	4	9001 ORGAN PASS	11088	4 EM	6460
7 18	6 35 44.5074	1	1 3 27.069	47 35 33.01	4	9009 CJRACAD	8432	5 BZ	7642
7 18	8 34 46.6102	1	21 16 36.629	- 0 1 15.63	4	9010 JUPITER	10124	1 EM	7227
7 18	8 34 58.6113	1	21 23 32.127	- 1 35 23.89	4	9010 JUPITER	10124	4 EM	7228
7 18	8 40 54.2536	1	22 5 18.641	- 6 40 34.33	4	9009 CURACAD	8438	3 EM	7644
7 18	8 40 58.2535	1	22 7 17.414	- 7 17 59.95	4	9009 CURACAD	8438	5 EM	7645
7 18	8 47 22.3612	1	1 57 24.807	23 16 3.13	4	9007 AREQUIPA	9378	4 TA	8227
7 18	8 47 38.3612	1	2 4 40.788	21 12 41.23	4	9007 AREQUIPA	9378	8 TA	8228
7 18	8 53 23.5584	1	3 5 35.714	15 7 58.73	4	9011 VILLA DOLO	9862	7 SC	7274
7 18	22 14 35.3445	1	20 51 7.527	43 45 5.30	4	9008 SHIRAZ	13051	3 JV	7411
7 19	0 4 44.2861	1	20 57 30.601	68 2 19.04	4	9004 SAN FERNAN	9315	4 SC	6292
7 19	0 4 52.2860	1	21 10 12.730	67 2 29.91	4	9004 SAN FERNAN	9315	6 SC	6293
7 19	0 19 51.9076	1	20 24 52.481	-12 32 59.73	4	9008 SHIRAZ	13061	3 AC	7413
7 19	0 20 3.9077	1	20 29 44.028	-13 44 16.59	4	9008 SHIRAZ	13061	6 AC	7414
7 19	2 9 48.9289	1	20 12 18.192	23 50 52.42	4	9004 SAN FERNAN	9322	3 VG	6290
7 19	2 10 0.9289	1	20 21 56.699	22 30 15.21	4	9004 SAN FERNAN	9322	6 VG	6291
7 19	4 13 53.8361	1	19 59 3.405	-12 42 11.78	4	9004 SAN FERNAN	9330	4 VG	6288
7 19	4 14 9.8363	1	20 4 55.043	-13 59 31.22	4	9004 SAN FERNAN	9330	6 NG	6289
7 19	5 55 47.3090	1	22 18 28.133	82 33 53.62	4	9001 ORGAN PASS	11096	4 EM	6461
7 19	5 55 51.3094	1	22 26 48.183	82 0 7.88	4	9001 ORGAN PASS	11096	6 SE	6462
7 19	6 4 30.5711	1	23 14 13.256	60 5 26.94	4	9010 JUPITER	10135	3 EM	7229
7 19	6 4 38.5714	1	23 19 31.572	58 50 5.27	4	9010 JUPITER	10135	5 AC	7230
7 19	6 11 10.4713	1	1 3 11.576	47 17 12.24	4	9009 CURACAD	8456	6 EM	7646
7 19	6 11 12.4707	1	1 3 44.835	47 0 37.69	4	9009 CURACAD	8456	7 EM	7647
7 19	8 1 47.6117	1	21 0 12.339	54 24 8.15	4	9001 ORGAN PASS	11105	4 SE	6463
7 19	8 1 53.6134	1	21 7 12.170	53 39 10.89	4	9001 ORGAN PASS	11105	7 SE	6464
7 19	8 23 20.9447	1	2 8 43.651	20 21 43.70	4	9007 AREQUIPA	9391	2 JV	7302
7 19	8 23 28.9445	1	2 12 2.328	19 21 41.34	4	9007 AREQUIPA	9391	4 JV	8223
7 19	10 6 20.6509	1	19 57 59.567	1 1 29.89	4	9001 ORGAN PASS	11109	3 SE	6465
7 19	10 6 26.6504	1	20 1 5.870	0 24 22.91	4	9001 ORGAN PASS	11109	6 SE	6466
7 19	10 23 16.0456	1	21 44 6.811	5 52 34.73	4	9007 AREQUIPA	9398	1 AC	7304
7 19	10 23 40.0460	1	21 50 21.941	3 19 46.54	4	9007 AREQUIPA	9398	4 AC	7305
7 19	19 44 42.6681	1	23 42 8.703	73 46 54.35	4	9008 SHIRAZ	13066	3 TA	7415
7 19	19 44 58.6686	1	23 48 1.224	71 24 37.32	4	9008 SHIRAZ	13066	7 RD	8235

DATE Y M D	TIME (A-I) H M S		RMS MS	R.A. (1950.0) H M S		DECL. (1950.0) D M S		STATION	FRAME NO.	MS	OBS. NO.
1963	7 19	21 33 22.6613	1	14 59 55.416	78 30 32.42	4	9004	SAN FERNAN	9332	4	6286
	7 19	21 33 30.6612	1	15 25 58.041	79 14 49.19	4	9004	SAN FERNAN	9332	6	6287
	7 19	23 40 12.6898	1	21 10 14.219	67 52 40.39	4	9004	SAN FERNAN	9340	4	6284
	7 19	23 40 24.6900	1	21 26 46.608	66 12 50.67	4	9004	SAN FERNAN	9340	7	6285
	7 19	23 54 42.8780	1	20 1 52.288	- 7 41 2.19	4	9008	SHIRAZ	13075	3	7417
	7 19	23 54 50.8783	1	20 5 17.716	- 8 29 32.11	4	9008	SHIRAZ	13075	5	7418
	7 20	1 45 48.1885	1	20 37 0.462	22 42 28.79	4	9004	SAN FERNAN	9345	4	6400
	7 20	1 45 56.1882	1	20 43 16.848	21 42 3.68	4	9004	SAN FERNAN	9345	6	6401
	7 20	3 49 18.8797	1	19 47 43.649	-11 37 56.93	4	9004	SAN FERNAN	9354	2	6402
	7 20	3 49 34.8802	1	19 53 53.991	-12 57 29.41	4	9004	SAN FERNAN	9354	4	6403
1963	7 20	5 39 12.6075	1	22 50 26.024	66 32 8.01	4	9010	JUPITER	10164	1	7231
	7 20	5 39 28.6079	1	23 2 56.950	64 7 40.48	4	9010	JUPITER	10164	5	7232
	7 20	7 58 28.0418	1	1 56 46.014	23 43 11.69	4	9007	AREQUIPA	9410	3	7167
	7 20	9 31 1.3834	1	1 38 0.522	75 26 53.47	4	9012	MAUI	10371	3	7212
	7 20	9 31 9.3834	1	1 33 57.303	74 35 25.09	4	9012	MAUI	10371	5	6902
	7 20	9 41 48.8678	1	19 51 50.890	2 52 49.86	4	9001	ORGAN PASS	11120	4	6467
	7 20	9 41 56.8681	1	19 56 14.609	2 1 27.45	4	9001	ORGAN PASS	11120	8	6468
	7 20	10 2 57.2948	1	23 15 20.361	-28 48 59.12	4	9007	AREQUIPA	9416	3	7168
	7 20	13 37 57.3843	1	18 16 47.754	24 37 40.17	4	9012	MAUI	10380	3	6903
	7 20	13 38 5.3844	1	18 20 1.763	24 11 19.68	4	9012	MAUI	10380	5	6904
1963	7 20	13 46 31.5990	1	22 17 36.497	-30 5 47.71	4	9012	MAUI	10381	3	7213
	7 20	13 46 37.5989	1	22 20 33.731	-30 44 9.36	4	9012	MAUI	10381	6	6905
	7 20	19 19 19.7484	1	23 24 27.387	79 40 32.22	4	9008	SHIRAZ	13086	2	7419
	7 20	19 19 31.7489	1	23 30 27.137	77 55 23.38	4	9008	SHIRAZ	13086	5	7420
	7 20	21 8 11.5096	1	13 41 22.890	74 37 2.13	4	9004	SAN FERNAN	9360	2	7205
	7 20	21 8 23.5094	1	14 6 4.015	76 11 23.05	4	9004	SAN FERNAN	9360	5	6302
	7 20	21 24 2.9197	1	19 23 8.840	57 29 55.47	4	9008	SHIRAZ	13089	4	7421
	7 20	21 24 8.9198	1	19 31 3.457	57 6 4.39	4	9008	SHIRAZ	13089	7	7422
	7 20	23 14 59.9383	1	20 12 20.255	72 41 56.13	4	9004	SAN FERNAN	9368	3	8218
	7 20	23 15 11.9383	1	20 35 51.733	71 18 37.39	4	9004	SAN FERNAN	9368	6	6304
1963	7 21	1 18 46.4343	1	18 20 11.641	39 32 25.54	4	9004	SAN FERNAN	9373	1	6305
	7 21	1 18 58.4341	1	18 31 48.995	38 52 16.56	4	9004	SAN FERNAN	9373	4	6306
	7 21	5 14 37.8972	1	23 0 10.753	66 10 18.93	4	9010	JUPITER	10183	2	7248
	7 21	7 16 16.9589	1	17 54 4.106	37 4 45.44	4	9010	JUPITER	10187	6	7249
	7 21	7 35 48.6845	1	2 31 13.035	11 33 26.98	4	9007	AREQUIPA	9428	6	7156
	7 21	9 6 23.6618	1	1 27 4.573	74 26 41.92	4	9012	MAUI	10400	2	6906
	7 21	9 6 35.6621	1	1 21 15.559	73 11 3.97	4	9012	MAUI	10400	5	6907
	7 21	9 38 17.2258	1	23 18 0.126	-25 34 12.28	4	9007	AREQUIPA	9432	4	7163
	7 21	11 10 15.8458	1	19 7 51.444	75 17 30.51	4	9012	MAUI	10401	3	7214
	7 21	11 10 23.8460	1	19 24 33.709	75 3 54.55	4	9012	MAUI	10401	5	6909
1963	7 21	18 54 58.6350	1	23 33 16.288	76 26 22.18	4	9008	SHIRAZ	13107	3	7423
	7 21	18 55 10.6352	1	23 35 31.806	74 41 43.24	4	9008	SHIRAZ	13107	6	7424
	7 21	20 46 22.7805	1	21 0 55.589	68 47 13.85	4	9004	SAN FERNAN	9374	2	6307
	7 21	20 46 34.7804	1	21 11 20.296	67 11 2.24	4	9004	SAN FERNAN	9374	5	6308
	7 21	22 50 22.7074	1	20 18 13.971	73 6 21.21	4	9004	SAN FERNAN	9381	2	6309
	7 21	22 50 22.7074	1	20 18 13.971	73 6 21.21	4	9004	SAN FERNAN	9381	2	6309
	7 21	22 50 22.7074	1	20 18 13.971	73 6 21.21	4	9004	SAN FERNAN	9381	2	6309
	7 21	22 50 22.7074	1	20 18 13.971	73 6 21.21	4	9004	SAN FERNAN	9381	2	6309
	7 21	22 50 22.7074	1	20 18 13.971	73 6 21.21	4	9004	SAN FERNAN	9381	2	6309
	7 21	22 50 22.7074	1	20 18 13.971	73 6 21.21	4	9004	SAN FERNAN	9381	2	6309

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 21	22 50 34.7073	1	20 40 23.918	71 35 31.90	4	9004 SAN FERNAN	9381	7206
7 22	0 53 24.0116	1	17 24 25.565	44 22 24.95	4	9004 SAN FERNAN	9387	2 F1	6310
7 22	0 53 32.0118	1	17 32 21.602	44 11 38.61	4	9004 SAN FERNAN	9387	4 F1	6311
7 22	2 55 31.1562	1	17 30 54.594	11 1 22.11	4	9004 SAN FERNAN	9395	3 F1	6312
7 22	2 55 39.1566	1	17 34 1.614	10 36 3.93	4	9004 SAN FERNAN	9395	4 F1	6313
7 22	4 41 25.1855	1	21 59 27.332	84 44 43.95	4	9001 ORGAN PASS	11145	4 KA	6405
7 22	4 41 29.1854	1	22 7 45.164	84 9 47.58	4	9001 ORGAN PASS	11145	6 KA	6406
7 22	7 14 29.1457	1	2 13 26.807	22 6 12.89	4	9011 VILLA DOLO	9902	1 SC	7275
7 22	7 14 45.1460	1	2 18 58.139	20 45 1.10	4	9011 VILLA DOLO	9902	3 SC	7276
7 22	9 15 21.8472	1	0 34 12.731	-39 31 6.32	4	9007 AREQUIPA	9451	6 SC	7162
7 22	9 18 40.8895	1	1 18 57.222	-13 20 36.83	4	9011 VILLA DOLO	9909	2 SC	7277
7 22	9 18 52.8890	1	1 27 39.587	-15 3 10.77	4	9011 VILLA DOLO	9909	5 BZ	7278
7 22	16 30 47.4089	1	0 1 13.155	83 15 32.16	4	9006 NAINI TAL	8319	4 SC	6386
7 22	16 30 51.4089	1	23 58 30.281	82 42 13.09	4	9006 NAINI TAL	8319	5 SC	6387
7 22	18 34 43.4155	1	16 58 43.200	70 11 42.48	4	9006 NAINI TAL	8329	4 SC	6388
7 22	18 34 51.4157	1	17 13 18.129	70 22 11.19	4	9006 NAINI TAL	8329	6 SC	6389
7 23	0 28 2.6711	1	16 27 5.283	47 33 34.11	4	9004 SAN FERNAN	9413	4 KA	8219
7 23	0 28 10.6712	1	16 34 47.276	47 37 17.08	4	9004 SAN FERNAN	9413	6 KA	6318
7 23	0 55 48.1637	1	2 3 38.839	16 49 41.43	4	9002 OLIFANTS	13543	3 EM	6376
7 23	2 30 18.4654	1	16 59 27.088	14 28 48.00	4	9004 SAN FERNAN	9419	2 AC	6319
7 23	2 30 34.4655	1	17 5 48.735	13 44 59.28	4	9004 SAN FERNAN	9419	4 AC	6320
7 23	6 50 43.2958	1	2 18 55.222	18 45 18.66	4	9011 VILLA DOLO	9924	8 EM	8849
7 23	8 22 28.7901	1	16 8 37.073	31 49 31.80	4	9001 ORGAN PASS	11161	3 KA	6407
7 23	8 22 36.7903	1	16 12 33.071	31 42 28.84	4	9001 ORGAN PASS	11161	5 KA	6408
7 23	8 52 55.9737	1	2 32 9.798	-49 22 25.53	4	9007 AREQUIPA	9469	4 NG	7156
7 23	8 53 3.9734	1	2 39 12.802	-49 51 27.25	4	9007 AREQUIPA	9469	6 NG	7157
7 23	16 6 14.8340	1	23 52 12.279	81 35 21.92	4	9006 NAINI TAL	8349	2 SE	6390
7 23	16 6 18.8337	1	23 49 40.665	81 2 31.85	4	9006 NAINI TAL	8349	3 SE	6391
7 23	18 10 17.7281	1	17 15 51.967	73 2 56.84	4	9006 NAINI TAL	8357	5 SE	6392
7 23	18 10 25.7285	1	17 33 25.293	73 5 11.41	4	9006 NAINI TAL	8357	7 SE	6393
7 23	20 8 50.2028	1	17 10 18.914	68 47 45.55	4	9008 SHIRAZ	13148	2 SE	7425
7 23	20 8 54.2028	1	17 17 25.472	68 49 37.05	4	9008 SHIRAZ	13148	3 SE	7426
7 23	22 0 24.1209	1	18 38 59.389	78 11 26.34	4	9004 SAN FERNAN	9433	3 JV	6321
7 23	22 0 32.1209	1	19 4 3.575	77 31 55.89	4	9004 SAN FERNAN	9433	5 JV	6322
7 24	0 34 4.2324	1	2 54 27.960	1 56 35.37	4	9002 OLIFANTS	13564	3 EM	6377
7 24	0 34 12.2324	1	2 57 11.164	1 16 3.96	4	9002 OLIFANTS	13564	4 EM	6378
7 24	2 32 10.5118	1	22 32 34.278	2 3 25.39	4	9002 OLIFANTS	13570	3 EM	6379
7 24	2 32 18.5119	1	22 36 0.110	1 1 49.81	4	9002 OLIFANTS	13570	4 EM	6380
7 24	7 57 53.7453	1	15 50 30.091	34 6 55.28	4	9001 ORGAN PASS	11183	4 KA	6409
7 24	7 58 9.7452	1	15 58 49.632	33 57 16.84	4	9001 ORGAN PASS	11183	8 KA	6410
7 24	8 31 35.1755	1	2 44 55.961	-22 9 57.14	4	9011 VILLA DOLO	9950	2 BZ	7280
7 24	8 31 47.1754	1	2 53 48.656	-23 19 19.87	4	9011 VILLA DOLO	9950	5 BZ	7281
7 24	9 55 7.6992	1	16 5 55.546	81 30 25.27	4	9012 MAUI	10452	3 RD	6910
7 24	9 55 19.6994	1	16 43 29.191	82 0 7.35	4	9012 MAUI	10452	6 RD	6911
7 24	15 41 6.3566	1	0 22 14.488	84 44 45.09	4	9006 NAINI TAL	8371	2 SE	6394

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A.(1950.0) H M S	DECL.(1950.0) D M S	STATION	FRAME NO.	MS	OBS.NO.
1963	7 24	15 41 14.3566	1	0 6 44.468	83 42 33.53	4	9006 NAINI TAL	8371 3 SE 6395
	7 24	17 39 51.9174	1	23 43 18.883	84 14 46.35	4	9008 SHIRAZ	13164 1 SE 7427
	7 24	21 35 50.5114	1	18 59 15.210	78 9 50.21	4	9004 SAN FERVAN	9448 1 JV 7207
	7 24	21 35 54.5112	1	19 10 58.798	77 45 44.25	4	9004 SAN FERVAN	9448 2 JV 6323
	7 25	2 9 37.0924	1	23 37 30.074	-12 55 28.84	4	9002 OLIFANTS	13585 5 AC 6381
	7 25	2 9 41.0919	1	23 40 1.989	-13 34 15.70	4	9002 OLIFANTS	13585 6 AC 6382
	7 25	5 32 18.4660	1	18 44 43.310	75 28 52.45	4	9001 ORGAN PASS	11196 3 KA 6411
	7 25	5 32 24.4661	1	18 59 59.711	75 1 54.12	4	9001 ORGAN PASS	11196 6 KA 7209
	7 25	7 33 36.3561	1	15 41 57.234	36 23 24.01	4	9001 ORGAN PASS	11200 2 KA 6412
	7 25	9 31 3.4507	1	18 33 21.110	84 1 38.27	4	9012 MAUI	10474 3 2D 6912
	7 25	9 31 15.4508	1	19 25 44.466	83 30 29.06	4	9012 MAUI	10474 6 2D 6913
	7 25	15 16 0.0034	1	2 10 29.148	87 2 25.57	4	9006 NAINI TAL	8391 3 SE 6396
	7 25	15 16 16.0035	1	0 38 56.591	85 23 26.58	4	9006 NAINI TAL	8391 5 SE 6397
	7 25	17 21 19.0684	1	18 6 7.912	77 18 11.94	4	9006 NAINI TAL	8400 5 SE 6398
	7 25	17 21 27.0685	1	18 28 44.691	76 56 34.79	4	9006 NAINI TAL	8400 7 2D 6399
	7 25	17 54 46.9521	1	2 25 54.735	- 5 19 11.90	4	9003 WOOMERA	15070 7 FI 7255
	7 25	17 54 54.9526	1	2 30 4.118	- 6 5 59.19	4	9003 WOOMERA	15070 9 FI 7256
	7 25	19 19 33.7376	1	16 58 57.705	74 1 36.68	4	9008 SHIRAZ	13195 3 SE 7428
	7 25	19 19 37.7378	1	17 8 21.221	74 2 2.66	4	9008 SHIRAZ	13195 4 SE 7429
	7 25	21 11 12.9521	1	19 5 40.633	78 14 34.58	4	9004 SAN FERVAN	9471 3 JV 6324
	7 25	21 11 16.9520	1	19 16 40.426	77 47 27.85	4	9004 SAN FERVAN	9471 4 JV 6325
	7 25	23 14 15.3740	1	15 45 16.239	55 56 17.69	4	9004 SAN FERVAN	9480 2 JV 6326
	7 25	23 14 19.3738	1	15 50 8.779	56 2 30.18	4	9004 SAN FERVAN	9480 3 JV 6327
	7 26	1 16 1.3407	1	15 53 56.448	20 55 44.30	4	9004 SAN FERVAN	9485 1 KA 6328
	7 26	1 47 28.9394	1	1 29 34.938	-31 19 20.44	4	9002 OLIFANTS	13606 1 KA 8216
	7 26	1 47 36.9395	1	1 36 14.764	-32 15 21.73	4	9002 OLIFANTS	13606 3 KA 6383
	7 26	3 45 50.7150	1	20 47 8.886	-18 37 13.99	4	9002 OLIFANTS	13616 4 KA 7201
	7 26	3 45 58.7154	1	20 48 5.424	-19 24 55.59	4	9002 OLIFANTS	13616 5 KA 7202
	7 26	9 6 34.2825	1	20 10 38.067	84 35 3.41	4	9012 MAUI	10486 3 NG 7633
	7 26	9 6 42.2826	1	20 39 26.225	83 52 47.54	4	9012 MAUI	10486 5 VG 7634
	7 26	9 42 56.1671	1	21 36 25.292	-72 51 32.35	4	9007 AREQUIPA	9509 3 SC 7161
	7 26	9 43 12.1670	1	21 45 44.668	-74 52 26.29	4	9007 AREQUIPA	9509 5 SC 8231
	7 26	16 50 56.3370	1	23 10 24.628	79 42 0.73	4	9008 SHIRAZ	13210 3 SE 7430
	7 26	16 51 4.3372	1	23 6 25.340	78 36 27.28	4	9008 SHIRAZ	13210 4 SE 7431
	7 26	19 30 35.8330	1	22 21 50.603	-21 49 39.41	4	9003 WOOMERA	15093 7 FI 7257
	7 26	19 30 43.8330	1	22 25 28.039	-23 3 56.55	4	9003 WOOMERA	15093 9 FI 7258
	7 26	20 46 43.8607	1	19 30 39.946	77 4 46.45	4	9004 SAN FERVAN	9498 3 FI 6314
	7 26	20 46 55.8607	1	19 54 25.096	75 26 43.59	4	9004 SAN FERVAN	9498 6 FI 6315
	7 26	22 50 29.3984	1	16 43 53.219	59 7 9.25	4	9004 SAN FERVAN	9506 4 FI 7267
	7 26	22 50 41.3987	1	17 2 15.506	58 51 30.72	4	9004 SAN FERVAN	9506 7 FI 7268
	7 27	0 52 28.2852	1	16 5 20.108	20 37 51.05	4	9004 SAN FERVAN	9513 3 FI 6316
	7 27	19 7 43.1990	1	23 23 29.580	-36 37 12.31	4	9003 WOOMERA	15111 4 FI 7259
	7 27	19 7 47.1988	1	23 26 35.717	-37 16 48.87	4	9003 WOOMERA	15111 6 FI 7260
	7 27	20 32 17.6727	1	15 26 34.091	36 20 3.02	4	9008 SHIRAZ	13241 1 EM 213
	7 27	20 32 21.6732	1	15 28 45.090	36 16 48.46	4	9008 SHIRAZ	13241 2 EM 7432

DATE		TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME	VD.	MS	OBS.VD.		
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S						
1963	7	28	8	58	35.1491	1	3	19	30.688	-66	9	1.47	4	9011	VILLA DOLO	10039	2	BZ	7282
	7	28	8	58	47.1490	1	3	40	13.665	-66	2	4.68	4	9011	VILLA DOLO	10039	5	BZ	7283
	7	29	2	37	18.4065	1	21	43	39.626	-60	23	37.70	4	9002	OLIFANTS	13661	5	SE	6795
	7	29	2	37	42.4073	1	21	58	59.260	-64	13	5.48	4	9002	OLIFANTS	13661	8	SE	8725
	7	29	3	58	48.2219	1	15	40	33.040	64	53	56.34	4	9010	JUPITER	10265	2	FI	7250
	7	29	3	58	56.2220	1	15	51	31.045	65	2	36.73	4	9010	JUPITER	10265	4	FI	7251
	7	29	7	53	46.8534	1	22	52	51.172	75	5	24.59	4	9012	MAUI	10521	4	NG	7635
	7	29	7	53	54.8536	1	22	53	14.207	74	3	52.10	4	9012	MAUI	10521	6	NG	7636
	7	29	8	34	35.9903	1	4	6	2.513	-62	26	4.31	4	9011	VILLA DOLO	10056	2	EM	7284
	7	29	8	34	43.9902	1	4	16	38.457	-62	8	27.22	4	9011	VILLA DOLO	10056	4	EM	7285
	7	29	18	21	58.1295	1	3	1	1.618	-50	36	23.33	4	9003	WOOMERA	15127	4	FI	7261
	7	29	18	22	2.1293	1	3	5	14.784	-50	40	15.23	4	9003	WOOMERA	15127	5	FI	7262
	7	29	23	38	39.8636	1	15	13	46.880	27	24	12.16	4	9004	SAN FERNAN	9573	1	SC	6022
	7	29	23	38	47.8636	1	15	18	24.132	27	9	30.56	4	9004	SAN FERNAN	9573	2	SE	6023
	7	30	3	33	52.9513	1	15	2	19.273	67	24	26.28	4	9010	JUPITER	10287	3	FI	7252
	7	30	3	34	8.9516	1	15	25	43.671	67	54	45.98	4	9010	JUPITER	10287	7	FI	7253
	7	30	7	30	2.9287	1	22	52	53.588	67	22	28.78	4	9012	MAUI	10544	4	NG	7637
	7	30	7	30	10.9288	1	22	52	52.451	66	21	30.39	4	9012	MAUI	10544	6	NG	7638
	7	30	17	17	46.1812	1	20	50	47.896	72	9	6.47	4	9008	SHIRAZ	13269	5	EM	7433
	7	30	17	59	5.6776	1	4	16	49.508	-47	0	23.48	4	9003	WOOMERA	15148	9	FI	7254
	7	30	21	13	21.2235	1	18	47	20.060	61	25	16.30	4	9004	SAN FERNAN	9593	6	SE	6024
	7	30	23	14	5.0330	1	14	57	14.958	29	47	40.52	4	9004	SAN FERNAN	9600	1	SE	6025
	7	30	23	14	13.0333	1	15	2	8.400	29	35	15.37	4	9004	SAN FERNAN	9600	2	SE	6026
	7	31	1	50	49.7167	1	2	30	8.677	-75	0	58.44	4	9002	OLIFANTS	13701	3	SE	6797
	7	31	1	50	57.7178	1	2	48	25.623	-74	55	9.80	4	9002	OLIFANTS	13701	5	SE	6798
	7	31	3	56	5.4840	1	14	44	27.108	-85	24	27.39	4	9002	OLIFANTS	13713	4	EM	7204
	7	31	3	56	21.4825	1	13	11	16.006	-84	56	3.83	4	9002	OLIFANTS	13713	6	EM	6800
	7	31	7	4	39.7184	1	22	52	21.340	72	12	32.16	4	9012	MAUI	10567	3	FI	212
	7	31	7	4	55.7188	1	22	50	14.060	70	14	40.87	4	9012	MAUI	10567	7	FI	7639
	7	31	9	48	17.7191	1	22	2	49.927	-80	34	4.74	4	9011	VILLA DOLO	10088	1	EM	7286
	7	31	9	48	25.7190	1	22	16	8.236	-81	45	53.60	4	9011	VILLA DOLO	10088	3	EM	7287
	7	31	19	33	29.2032	1	20	53	45.463	-54	41	26.94	4	9003	WOOMERA	15169	4	FI	7265
	7	31	19	33	57.2027	1	21	3	13.103	-59	7	54.17	4	9003	WOOMERA	15169	11	FI	7266
	7	31	20	48	38.5874	1	18	42	13.536	63	17	53.12	4	9004	SAN FERNAN	9619	3	SE	6027
	7	31	20	48	46.5875	1	18	52	43.561	62	9	29.79	4	9004	SAN FERNAN	9619	5	SE	6028
	7	31	22	50	16.4139	1	15	11	51.334	31	1	46.33	4	9004	SAN FERNAN	9626	2	SE	6029
	7	31	22	50	24.4141	1	15	17	30.534	30	44	16.73	4	9004	SAN FERNAN	9626	4	SE	6030
	8	1	2	46	28.9697	1	18	25	2.862	70	18	50.36	4	9010	JUPITER	10330	5	PL	128
	8	1	2	46	32.9698	1	18	31	52.179	69	54	47.12	4	9010	JUPITER	10330	6	PL	129
	8	1	4	42	49.7932	10	14	55	46.711	57	15	27.66	4	9001	ORGAN PASS	11221	5	VD	8920
	8	1	4	42	55.7943	10	15	3	5.269	57	19	21.01	4	9001	ORGAN PASS	11221	8	VD	8921
	8	1	6	40	31.6266	1	22	42	44.235	67	45	49.41	4	9012	MAUI	10591	4	PL	564
	8	1	6	40	39.6267	1	22	41	47.325	66	48	8.65	4	9012	MAUI	10591	6	PL	144
	8	1	16	28	22.5712	1	20	56	52.430	72	45	59.64	4	9008	SHIRAZ	13298	3	RD	9703
	8	1	16	28	34.5717	1	21	2	27.768	70	54	26.90	4	9008	SHIRAZ	13298	6	RD	9704

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	8 1 19 10 16.4725	1	21 35 38.643	-68 18 7.80	9003 WOOMERA	15181	10 VD	8934
	8 1 22 25 38.9712	1	14 55 26.950	33 55 3.33	9004 SAN FERNAN	9647	4 LT	9970
	8 1 22 25 46.9714	1	15 1 29.127	33 40 15.79	9004 SAN FERNAN	9647	6 LT	9971
	8 2 3 2 43.4584	1	19 36 53.180	-59 29 7.67	9002 OLIFANTS	13742	7 VD	8924
	8 2 8 17 53.3056	1	15 24 19.823	68 28 11.10	9012 MAUI	10608	7 PL	145
	8 2 8 17 57.3058	1	15 29 59.969	68 30 20.13	9012 MAUI	10608	8 PL	146
	8 2 18 46 55.5177	1	23 56 15.113	-78 1 47.98	9003 WOOMERA	15204	3 VD	8935
	8 2 18 47 27.5168	1	1 43 55.437	-79 37 1.57	9003 WOOMERA	15204	11 VD	8936
	8 2 22 1 26.8330	1	14 59 43.294	36 8 52.54	9004 SAN FERNAN	9670	3 LT	9972
	8 2 22 1 30.8329	1	15 3 4.861	36 0 24.83	9004 SAN FERNAN	9670	4 LT	9973
	8 3 2 39 50.8436	1	19 17 46.129	-73 41 27.29	9002 OLIFANTS	13755	7 VD	2494
	8 3 7 53 9.7556	1	15 7 9.606	71 28 8.65	9012 MAUI	10638	4 SU	504
	8 3 7 53 17.7556	1	15 20 14.486	71 34 15.08	9012 MAUI	10638	6 SU	505
	8 3 8 36 15.7398	1	6 0 22.864	-77 10 43.38	9011 VILLA DOLO	10115	5 LT	2292
	8 3 8 36 19.7396	1	6 5 58.737	-76 40 56.28	9011 VILLA DOLO	10115	6 LT	2293
	8 3 17 42 21.6314	1	15 47 24.931	57 15 3.07	9008 SHIRAZ	13322	3 RD	9705
	8 3 17 42 33.6319	1	16 3 12.093	56 45 12.49	9008 SHIRAZ	13322	3 RD	9706
	8 3 21 37 37.3300	1	15 29 18.511	37 17 11.95	9004 SAN FERNAN	9696	3 LT	9974
	8 3 21 37 57.3301	1	15 48 27.449	36 1 33.56	9004 SAN FERNAN	9696	8 LT	9975
	8 4 17 18 35.9376	1	16 55 46.217	57 23 19.64	9008 SHIRAZ	13348	6 RD	9707
	8 4 21 13 57.2633	1	16 16 53.397	36 27 24.02	9004 SAN FERNAN	9715	4 LT	9976
	8 4 21 14 5.2634	1	16 24 54.982	35 40 54.54	9004 SAN FERNAN	9715	6 LT	9977
	8 5 16 53 53.4163	1	16 51 36.488	60 49 28.48	9008 SHIRAZ	13364	3 RD	9708
	8 5 16 54 5.4169	1	17 8 39.686	59 37 41.35	9008 SHIRAZ	13364	6 RD	9709
	8 5 20 49 27.6503	1	16 18 45.014	39 7 33.46	9004 SAN FERNAN	9735	4 LT	9978
	8 5 20 49 39.6504	1	16 31 18.935	37 51 13.98	9004 SAN FERNAN	9735	7 LT	9979
	8 6 8 42 49.7804	1	14 39 2.957	31 52 36.24	9012 MAUI	10659	5 SU	506
	8 6 16 30 3.7223	1	17 59 46.872	57 27 48.18	9008 SHIRAZ	13374	3 RD	9710
	8 6 16 30 9.7221	1	18 6 23.289	56 34 52.42	9008 SHIRAZ	13374	6 RD	9711
	8 6 20 28 55.5217	1	19 14 53.819	8 49 48.96	9004 SAN FERNAN	9754	4 LT	9980
	8 6 20 29 3.5214	1	19 18 20.956	7 52 27.97	9004 SAN FERNAN	9754	6 LT	9981
	8 6 22 27 10.8436	1	15 1 39.508	5 16 21.10	9004 SAN FERNAN	9761	5 LT	9982
	8 6 22 27 18.8437	1	15 5 20.421	4 40 15.14	9004 SAN FERNAN	9761	7 LT	9983
	8 7 2 22 17.0039	1	15 15 54.597	43 4 24.85	9010 JUPITER	10459	8 PL	130
	8 7 2 22 21.0040	1	15 19 33.168	42 49 58.08	9010 JUPITER	10459	9 PL	131
	8 7 6 17 5.9118	1	19 49 41.792	67 16 13.82	9012 MAUI	10673	2 SU	507
	8 7 6 17 7.9119	1	19 51 1.428	66 58 55.91	9012 MAUI	10673	3 SU	508
	8 7 8 18 47.1609	1	14 41 48.361	33 37 20.71	9012 MAUI	10680	2 SU	509
	8 7 8 18 51.1616	1	14 44 0.072	33 25 10.83	9012 MAUI	10680	3 SU	510
	8 7 18 48 14.6439	1	19 35 22.875	-82 59 34.47	9003 WOOMERA	15257	3 VD	9190
	8 7 18 48 34.6438	1	19 48 7.009	-85 58 3.04	9003 WOOMERA	15257	8 VD	8937
	8 7 22 3 7.1092	1	15 2 53.541	4 41 38.15	9004 SAN FERNAN	9785	3 LT	9984
	8 7 22 3 15.1090	1	15 6 50.066	4 2 15.78	9004 SAN FERNAN	9785	5 LT	9985
	8 8 1 58 30.8150	1	15 58 55.102	43 19 58.87	9010 JUPITER	10483	5 PL	132
	8 8 1 58 34.8153	1	16 2 53.181	42 57 21.35	9010 JUPITER	10483	6 PL	133

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 8	3 55 32.5658	1	14 54 36.193	27 19 59.98	4	9001 ORGAN PASS	11280	4 VD	8922
8 8	5 54 2.3374	1	20 32 50.624	53 9 55.50	4	9012 MAUI	10700	3 SU	511
8 8	5 54 4.3375	1	20 33 21.896	52 51 47.64	4	9012 MAUI	10700	4 SU	512
8 8	7 54 36.9410	1	14 44 0.958	35 54 10.66	4	9012 MAUI	10707	5 SU	513
8 8	8 37 51.1317	1	7 25 25.808	-78 19 4.94	4	9011 VILLA DOLO	10194	5 LT	2294
8 8	8 38 7.1318	1	7 28 9.797	-75 59 39.76	4	9011 VILLA DOLO	10194	9 LT	2295
8 8	18 24 53.2778	1	6 23 34.964	-84 43 53.14	4	9003 WOOMERA	15273	10 HC	9854
8 8	18 25 1.2774	1	6 32 33.967	-83 35 40.52	4	9003 WOOMERA	15273	12 HC	9855
8 8	21 39 39.5155	1	15 25 25.877	0 42 39.57	4	9004 SAN FERNAN	9809	4 LT	9986
8 8	21 39 47.5154	1	15 29 39.553	- 0 2 32.03	4	9004 SAN FERNAN	9809	6 LT	9987
8 9	1 34 26.2946	1	16 31 1.411	43 48 51.58	4	9010 JUPITER	10510	2 PL	134
8 9	2 17 17.7116	1	17 29 9.664	-77 39 24.38	4	9002 OLIFANTS	13872	8 VD	602
8 9	2 17 25.7110	1	17 20 53.709	-78 30 40.62	4	9002 OLIFANTS	13872	9 VD	8927
8 9	3 31 54.8714	1	15 30 45.074	25 41 58.35	4	9001 ORGAN PASS	11308	7 VD	8923
8 9	3 37 10.5948	1	15 6 16.265	0 19 39.27	4	9010 JUPITER	10515	4 PL	135
8 9	3 37 18.5951	1	15 9 11.697	- 0 21 30.59	4	9010 JUPITER	10515	5 PL	136
8 9	18 1 47.4260	1	6 40 37.593	-71 17 45.30	4	9003 WOOMERA	15287	7 HC	9866
8 9	18 1 51.4260	1	6 41 31.973	-70 46 52.01	4	9003 WOOMERA	15287	8 HC	9867
8 9	21 15 28.8807	1	15 28 38.438	0 20 13.54	4	9004 SAN FERNAN	9830	5 LT	9988
8 9	21 15 32.8806	1	15 30 52.648	- 0 3 36.10	4	9004 SAN FERNAN	9830	6 LT	9989
8 10	1 13 42.6108	1	16 26 30.183	58 18 8.34	4	9009 CURACAO	8721	10 DM	9965
8 10	1 13 44.6112	1	16 28 30.594	58 9 49.49	4	9009 CURACAO	8721	11 DM	9966
8 10	3 13 20.1939	1	15 10 45.903	- 1 54 33.06	4	9010 JUPITER	10530	6 PL	137
8 10	3 13 28.1944	1	15 13 55.957	- 2 40 4.96	4	9010 JUPITER	10530	7 PL	138
8 10	7 6 19.4712	1	15 3 40.145	40 33 24.72	4	9012 MAUI	10750	6 SU	514
8 10	16 55 33.1086	1	15 26 51.914	18 14 40.18	4	9008 SHIRAZ	13416	6 RD	9712
8 10	17 37 51.2014	1	6 26 43.614	-65 25 14.77	4	9003 WOOMERA	15305	5 HC	9868
8 10	17 37 59.2013	1	6 28 14.058	-64 28 58.67	4	9003 WOOMERA	15305	6 HC	9869
8 10	19 35 57.4748	1	19 20 7.910	-58 32 10.79	4	9003 WOOMERA	15311	4 SU	9872
8 10	19 36 1.4748	1	19 20 33.036	-58 58 0.62	4	9003 WOOMERA	15311	5 SU	9873
8 11	1 30 20.2177	1	9 13 11.881	-80 53 4.41	4	9002 OLIFANTS	13894	4 VD	8928
8 11	3 31 22.2986	1	19 30 30.552	-66 52 48.67	4	9002 OLIFANTS	13901	7 VD	8929
8 11	16 31 37.9269	1	15 51 42.255	16 43 45.58	4	9008 SHIRAZ	13436	2 RD	9713
8 11	16 31 39.9268	1	15 53 10.545	16 27 47.90	4	9008 SHIRAZ	13436	3 RD	9714
8 11	19 13 14.0720	1	19 14 56.194	-72 53 5.10	4	9003 WOOMERA	15331	8 SU	9874
8 11	19 13 18.0721	1	19 15 36.103	-73 24 43.92	4	9003 WOOMERA	15331	9 SU	9875
8 12	6 18 38.6613	1	16 20 13.512	39 53 42.19	4	9012 MAUI	10764	2 SU	515
8 12	6 18 40.6637	1	16 21 59.249	39 37 54.96	4	9012 MAUI	10764	3 SU	516
8 12	7 1 4.0722	1	6 23 44.618	-61 49 54.99	4	9011 VILLA DOLO	10224	3 LT	2296
8 12	7 1 20.0717	1	6 26 4.409	-59 57 32.93	4	9011 VILLA DOLO	10224	5 LT	2297
8 12	8 21 46.0877	1	14 51 45.533	- 5 20 18.72	4	9012 MAUI	10768	2 SU	517
8 12	8 21 54.0887	1	14 54 13.636	- 6 4 28.99	4	9012 MAUI	10768	4 SU	518
8 12	9 4 9.6093	1	6 9 44.048	-75 39 0.37	4	9011 VILLA DOLO	10233	5 LT	2298
8 12	9 4 17.6091	1	6 16 28.171	-74 23 47.82	4	9011 VILLA DOLO	10233	7 LT	2299
8 12	18 49 4.4082	1	18 58 30.009	-77 29 24.25	4	9003 WOOMERA	15345	3 SU	9876

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 12	18 49 12.4079	1	18 59 51.222	-78 35 45.89	4	9003 WOOMERA	15345	5 SU	9877
8 13	0 2 9.9187	1	18 51 9.523	48 44 31.15	4	9009 CURACAO	8735	4 DM	9967
8 13	0 2 13.9186	1	18 53 25.705	48 7 29.68	4	9009 CURACAO	8735	6 DM	9968
8 13	2 52 11.0934	1	7 55 45.670	-36 12 7.21	4	9002 OLIFANTS	13945	4 HC	9853
8 13	8 40 30.5585	1	6 37 23.847	-66 1 47.02	4	9011 VILLA DOLO	10245	5 LT	2300
8 13	8 40 34.5584	1	6 38 37.849	-65 24 29.41	4	9011 VILLA DOLO	10245	6 LT	2301
8 14	1 39 38.1185	1	14 42 41.297	12 34 45.78	4	9009 CURACAO	8752	11 DM	9969
8 14	2 18 33.0713	1	18 10 37.079	-75 59 14.56	4	9002 OLIFANTS	13963	4 HC	9854
8 14	2 18 41.0708	1	18 8 16.385	-76 53 8.94	4	9002 OLIFANTS	13963	5 HC	9855
8 14	8 15 47.9475	1	6 27 57.375	-66 24 7.91	4	9011 VILLA DOLO	10262	3 MY	957
8 14	18 2 9.3242	1	6 32 1.692	-80 31 2.47	4	9003 WOOMERA	15358	5 SU	9878
8 14	18 2 13.3241	1	6 32 13.126	-79 55 58.00	4	9003 WOOMERA	15358	6 SU	9879
8 15	1 54 50.2439	1	16 57 6.043	-82 51 24.79	4	9002 OLIFANTS	13983	4 HC	9856
8 15	1 54 58.2446	1	16 42 7.740	-83 43 5.12	4	9002 OLIFANTS	13983	5 HC	9857
8 15	7 9 15.3314	1	14 45 4.701	-7 56 32.91	4	9012 MAUI	10779	5 SU	519
8 15	17 39 31.4386	1	6 24 45.396	-63 7 12.70	4	9003 WOOMERA	15373	5 SU	9880
8 15	17 39 35.4386	1	6 25 0.931	-62 35 51.77	4	9003 WOOMERA	15373	6 SU	9881
8 15	17 42 35.4355	1	6 37 27.059	-41 56 11.39	4	9003 WOOMERA	15374	11 SU	9882
8 16	6 45 26.8895	1	14 56 26.522	-11 37 11.08	4	9012 MAUI	10798	2 SU	520
8 16	6 45 28.8894	1	14 57 18.255	-11 51 40.77	4	9012 MAUI	10798	3 SU	521
8 16	19 13 57.9474	1	20 6 20.778	-64 9 40.52	4	9003 WOOMERA	15394	5 SU	9883
8 16	19 14 17.9472	1	20 18 26.746	-66 11 24.69	4	9003 WOOMERA	15394	10 SU	9884
8 17	6 20 54.0147	1	14 51 16.055	-10 1 20.38	4	9012 MAUI	10818	2 PG	1687
8 17	6 20 56.0148	1	14 52 12.036	-10 16 35.87	4	9012 MAUI	10818	3 PG	1688
8 17	9 6 37.5002	1	4 17 40.602	-53 59 42.68	4	9011 VILLA DOLO	10302	5 MY	958
8 17	9 6 49.4999	1	4 28 18.654	-52 0 2.55	4	9011 VILLA DOLO	10302	8 MY	959
8 17	18 18 21.6073	1	18 36 51.498	36 49 52.81	4	9002 OLIFANTS	14023	5 HC	9858
8 17	18 18 37.6075	1	18 44 1.114	35 29 59.22	4	9002 OLIFANTS	14023	7 HC	9859
8 18	6 40 5.2283	1	6 1 43.258	-43 39 17.30	4	9011 VILLA DOLO	10311	3 MY	1568
8 18	6 40 13.2282	1	6 2 26.871	-42 47 47.39	4	9011 VILLA DOLO	10311	4 MY	960
8 18	8 42 42.6825	1	4 51 0.593	-48 4 40.52	4	9011 VILLA DOLO	10315	3 MY	961
8 18	17 55 59.5268	1	19 33 44.672	25 32 51.40	4	9002 OLIFANTS	14045	6 HC	9850
8 18	17 56 15.5271	1	19 40 43.458	23 52 29.76	4	9002 OLIFANTS	14045	8 HC	9861
8 18	18 27 46.7481	1	1 57 46.172	-80 15 41.46	4	9003 WOOMERA	15422	8 SU	9885
8 18	18 27 50.7481	1	2 11 25.905	-79 56 48.27	4	9003 WOOMERA	15422	9 SU	9886
8 18	23 43 33.0448	1	18 15 34.665	-28 30 0.25	4	9009 CURACAO	8804	5 HC	500
8 18	20 33 22.0897	1	1 34 28.277	-32 30 8.80	4	9003 WOOMERA	15432	3 SU	9887
8 18	20 33 24.0897	1	1 36 16.183	-32 17 38.23	4	9003 WOOMERA	15432	4 SU	9888
8 18	23 43 35.0448	1	18 16 34.555	-28 42 24.31	4	9009 CURACAO	8804	6 HC	501
8 19	2 19 44.6582	1	20 2 51.245	-69 25 59.90	4	9002 OLIFANTS	14058	3 BA	9683
8 19	2 19 52.6585	1	20 8 20.047	-70 10 20.91	4	9002 OLIFANTS	14058	4 BA	9684
8 19	17 33 37.9954	1	20 24 0.381	12 34 29.61	4	9002 OLIFANTS	14065	4 BA	9685
8 19	17 33 45.9949	1	20 27 12.951	11 43 31.72	4	9002 OLIFANTS	14065	5 BA	9686
8 19	18 4 36.3207	1	4 43 0.914	-68 53 11.08	4	9003 WOOMERA	15439	5 SU	9889
8 19	18 4 40.3205	1	4 45 50.345	-68 15 13.76	4	9003 WOOMERA	15439	6 SU	9890

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 20	7 55 1.4524	1	5 22 52.933	-34 56 22.72	4	9011 VILLA DOLO	10343	2 MY	962
8 20	9 55 9.8437	1	0 33 22.491	-24 48 43.59	4	9011 VILLA DOLO	10351	7 MY	954
8 20	17 11 5.4437	1	21 0 52.639	1 58 50.23	4	9002 OLIFANTS	14084	5 BA	9687
8 20	17 11 13.4425	1	21 3 46.067	1 15 16.07	4	9002 OLIFANTS	14084	6 BA	9688
8 20	19 9 21.0437	1	16 30 50.447	0 44 37.17	4	9002 OLIFANTS	14091	6 BA	9689
8 20	19 9 29.0436	1	16 33 50.384	- 0 14 13.15	4	9002 OLIFANTS	14091	7 BA	9690
8 21	1 33 50.5310	1	3 51 5.466	-78 3 28.13	4	9002 OLIFANTS	14093	5 BA	9691
8 21	1 33 58.5302	1	4 3 23.067	-77 0 58.63	4	9002 OLIFANTS	14093	6 BA	9692
8 21	10 53 29.6872	1	18 51 59.046	11 47 15.87	4	9003 WOOMERA	15458	6 SU	185
8 21	10 53 41.6871	1	18 58 22.398	10 25 23.96	4	9003 WOOMERA	15458	9 SU	186
8 21	17 18 15.6912	1	5 26 11.440	-42 42 40.87	4	9003 WOOMERA	15464	2 SU	187
8 21	17 18 19.6910	1	5 26 49.110	-42 11 16.14	4	9003 WOOMERA	15464	3 SU	188
8 21	18 42 45.1644	1	15 46 38.357	15 37 20.14	4	9002 OLIFANTS	14106	4 BA	9693
8 21	18 42 53.1648	1	15 49 9.195	14 56 19.89	4	9002 OLIFANTS	14106	5 BA	9694
8 21	19 16 15.0385	1	21 59 16.001	-50 40 4.32	4	9003 WOOMERA	15470	3 SU	189
8 21	19 16 23.0381	1	22 5 55.031	-50 49 30.73	4	9003 WOOMERA	15470	5 SU	190
8 22	0 34 40.6148	1	16 8 37.534	9 8 39.76	4	9007 AREQUIPA	9863	6 HC	494
8 22	0 34 44.6148	1	16 10 29.984	8 35 57.05	4	9007 AREQUIPA	9863	7 HC	495
8 22	1 10 25.3949	1	5 4 3.493	-67 23 45.94	4	9002 OLIFANTS	14110	6 BA	9695
8 22	1 10 33.3951	1	5 7 24.291	-66 10 57.44	4	9002 OLIFANTS	14110	7 BA	9696
8 22	10 31 38.6139	1	20 17 17.069	- 4 49 25.49	4	9003 WOOMERA	15476	6 SU	191
8 22	10 31 42.6133	1	20 19 29.215	- 5 15 11.74	4	9003 WOOMERA	15476	7 SU	192
8 22	12 30 0.2833	1	15 46 46.761	- 5 58 9.61	4	9003 WOOMERA	15480	9 SU	193
8 22	12 30 4.2835	1	15 47 41.279	- 6 22 5.25	4	9003 WOOMERA	15480	10 SU	194
8 22	16 55 7.9367	1	5 26 38.150	-32 25 8.89	4	9003 WOOMERA	15481	10 SU	195
8 22	16 55 11.9367	1	5 27 6.009	-31 59 17.86	4	9003 WOOMERA	15481	11 SU	196
8 22	18 23 32.7646	1	18 21 43.636	-23 46 12.72	4	9002 OLIFANTS	14124	6 BA	9697
8 22	18 23 36.7648	1	18 24 38.252	-24 23 35.60	4	9002 OLIFANTS	14124	7 BA	9698
8 22	18 52 58.4164	1	23 3 50.026	-54 31 21.55	4	9003 WOOMERA	15486	9 SU	197
8 22	18 53 2.4163	1	23 8 28.640	-54 28 30.91	4	9003 WOOMERA	15486	10 SU	198
8 23	0 11 20.6103	1	16 50 39.784	1 13 47.75	4	9007 AREQUIPA	9879	5 HC	496
8 23	0 11 48.6096	1	17 6 45.486	- 3 22 40.23	4	9007 AREQUIPA	9879	12 HC	497
8 23	0 14 8.9806	1	17 15 8.565	19 25 48.38	4	9011 VILLA DOLO	10367	5 MY	955
8 23	0 14 32.9799	1	17 26 11.455	17 12 31.60	4	9011 VILLA DOLO	10367	8 MY	956
8 23	0 47 54.7964	1	5 31 45.986	-48 21 9.61	4	9002 OLIFANTS	14129	4 R0	9493
8 23	0 48 10.7963	1	5 34 13.660	-46 6 54.78	4	9002 OLIFANTS	14129	8 R0	9494
8 23	2 46 12.0053	1	22 0 8.160	-47 49 56.04	4	9002 OLIFANTS	14137	3 R0	125
8 23	2 46 36.0046	1	22 16 42.811	-47 54 6.06	4	9002 OLIFANTS	14137	6 R0	9496
8 23	8 44 50.4431	1	2 56 4.311	- 8 53 11.72	4	9011 VILLA DOLO	10373	2 MY	957
8 23	8 45 6.4429	1	3 6 2.495	- 6 33 42.41	4	9011 VILLA DOLO	10373	6 MY	2496
8 23	8 46 19.4324	1	5 42 38.225	-39 9 13.80	4	9007 AREQUIPA	9887	3 HC	498
8 23	8 46 27.4324	1	5 44 58.101	-37 54 10.55	4	9007 AREQUIPA	9887	5 HC	499
8 23	12 7 34.2800	1	16 17 6.765	-19 36 22.43	4	9003 WOOMERA	15501	3 SU	199
8 23	12 7 38.2799	1	16 18 32.568	-20 9 53.09	4	9003 WOOMERA	15501	4 SU	200
8 23	19 59 47.1468	1	15 1 23.717	-25 25 27.34	4	9002 OLIFANTS	14150	4 R0	9497

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	8 23	20 0 3.1458	15 3 31.155	-27 11 58.07	9002 OLIFANTS	14150	6 30	9488
	8 24	2 22 44.2020	22 37 31.892	-51 9 52.12	9002 OLIFANTS	14156	4 30	9489
	8 24	2 23 8.2021	22 59 18.148	-50 49 33.31	9002 OLIFANTS	14156	7 30	9490
	8 24	9 46 7.4298	21 41 54.896	-17 44 40.38	9003 WOOMERA	15511	4 SU	201
	8 24	9 46 11.4296	21 43 37.767	-17 57 50.31	9003 WOOMERA	15511	5 SU	202
	8 24	11 44 2.3652	16 41 45.148	-27 25 1.63	9003 WOOMERA	15516	3 SU	203
	8 24	11 44 4.3652	16 42 45.576	-27 44 0.32	9003 WOOMERA	15516	4 SU	204
	8 24	17 39 16.4766	22 1 6.533	-41 23 52.44	9002 OLIFANTS	14163	7 30	1554
	8 24	17 39 24.4749	22 6 6.574	-41 32 48.82	9002 OLIFANTS	14163	8 30	606
	8 24	18 7 23.5426	3 3 23.871	-37 55 36.83	9003 WOOMERA	15519	9 SU	502
	8 24	19 37 37.0289	15 16 27.548	-43 24 35.47	9002 OLIFANTS	14167	7 30	9493
	8 24	20 5 34.9861	22 17 24.155	-19 39 8.89	9003 WOOMERA	15523	6 SU	503
	8 25	1 59 54.3505	0 19 17.527	-50 59 5.06	9002 OLIFANTS	14172	4 30	9495
	8 25	2 0 18.3501	0 45 36.990	-48 58 3.84	9002 OLIFANTS	14172	7 30	9496
	8 25	10 0 8.9008	1 46 19.978	-8 35 42.27	9007 AREQUIPA	9908	5 DM	9952
	8 25	11 22 2.0455	18 42 52.932	-49 14 7.05	9003 WOOMERA	15530	3 HC	9870
	8 25	11 22 14.0452	18 56 5.937	-50 39 9.57	9003 WOOMERA	15530	3 HC	9871
	8 25	17 45 13.9192	4 13 29.735	-16 39 7.53	9003 WOOMERA	15534	5 8A	9699
	8 25	17 45 21.9191	4 16 11.191	-15 33 55.13	9003 WOOMERA	15534	7 3A	9700
	8 25	19 13 54.9539	15 26 3.617	-51 25 36.84	9002 OLIFANTS	14181	4 30	9497
	8 25	19 13 58.9539	15 27 21.837	-52 2 24.14	9002 OLIFANTS	14181	5 30	9498
	8 25	19 43 7.8668	22 59 38.771	-14 22 59.36	9003 WOOMERA	15541	3 8A	604
	8 25	19 43 15.8666	23 3 34.804	-13 46 17.21	9003 WOOMERA	15541	5 8A	9702
	8 25	23 3 5.7035	18 29 44.515	8 44 49.84	9011 VILLA DOLO	10402	6 PG	1675
	8 25	23 3 9.7035	18 31 52.767	8 17 34.38	9011 VILLA DOLO	10402	7 PG	1676
	8 26	1 3 3.6260	14 35 4.117	-43 31 58.12	9007 AREQUIPA	9914	5 DM	9953
	8 26	1 3 7.6257	14 36 4.024	-44 6 25.81	9007 AREQUIPA	9914	6 DM	9954
	8 26	1 37 32.4121	2 35 9.223	-37 11 19.31	9002 OLIFANTS	14188	7 30	126
	8 26	1 37 40.4124	2 41 17.978	-35 49 58.47	9002 OLIFANTS	14188	9 30	127
	8 26	3 36 46.0361	22 44 31.152	-12 56 28.62	9002 OLIFANTS	14194	8 30	9500
	8 26	7 33 28.0541	4 0 39.198	1 31 45.91	9011 VILLA DOLO	10414	6 PG	1677
	8 26	7 33 36.0543	4 3 30.631	2 23 25.95	9011 VILLA DOLO	10414	7 PG	1678
	8 26	9 33 52.6659	0 34 58.442	15 13 48.92	9011 VILLA DOLO	10420	3 PG	1679
	8 26	9 34 0.6659	0 38 24.299	16 1 47.85	9011 VILLA DOLO	10420	5 PG	1680
	8 26	10 58 39.5017	20 9 51.708	-52 46 21.90	9003 WOOMERA	15547	3 LT	987
	8 26	10 58 55.5012	20 28 57.743	-53 33 2.42	9003 WOOMERA	15547	7 LT	988
	8 26	17 22 12.2619	4 33 38.736	-7 10 59.34	9003 WOOMERA	15549	9 LT	990
	8 26	18 52 2.8154	17 42 2.343	-75 7 10.58	9002 OLIFANTS	14203	5 VD	8930
	8 26	18 52 10.8156	17 57 13.923	-75 56 40.04	9002 OLIFANTS	14203	6 VD	8931
	8 27	0 39 9.9685	14 45 52.515	-49 39 41.44	9007 AREQUIPA	9926	5 DM	9955
	8 27	12 34 45.6211	15 4 24.067	-46 44 36.58	9003 WOOMERA	15556	6 LT	1555
	8 27	12 34 49.6213	15 5 7.247	-47 16 46.01	9003 WOOMERA	15556	7 LT	992
	8 27	18 28 56.0066	21 40 34.083	-76 41 52.62	9002 OLIFANTS	14221	7 VD	603
	8 27	18 29 12.0066	22 15 2.877	-75 58 52.67	9002 OLIFANTS	14221	9 VD	8933
	8 27	18 57 46.7816	0 47 50.364	4 9 48.75	9003 WOOMERA	15559	6 LT	993

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	33S. NO.
1963	8 27	18 58	2.7811	1	1	9003 WOOMERA	15559	10 LT	994
8 28	0 14	47.4009	14 52 56.746	4	4	9007 AREQUIPA	9932	8 DM	9956
8 28	0 14	51.4009	14 52 56.746	4	4	9007 AREQUIPA	9932	9 DM	9957
8 28	8 47	8.1458	1 27 0.189	4	4	9011 VILLA DOLO	10440	4 PG	1681
8 28	8 47	16.1457	1 30 39.896	4	4	9011 VILLA DOLO	10440	5 PG	1682
8 28	8 49	33.8121	3 51 16.164	4	4	9007 AREQUIPA	9935	8 DM	9958
8 28	12 12	37.2510	15 46 23.921	4	4	9003 WOOMERA	15566	9 SJ	995
8 28	12 12	41.2508	15 46 23.921	4	4	9003 WOOMERA	15566	10 SJ	996
8 28	23 49	8.2034	14 28 19.715	4	4	9007 AREQUIPA	9939	3 DM	9959
8 28	23 49	16.2030	14 31 32.646	4	4	9007 AREQUIPA	9939	5 DM	596
8 28	23 53	14.0676	16 13 52.259	4	4	9011 VILLA DOLO	10445	3 PG	1683
8 28	23 53	18.0675	16 16 17.622	4	4	9011 VILLA DOLO	10445	4 PG	1684
8 29	11 49	23.6614	18 2 30.184	4	4	9003 WOOMERA	15578	3 SJ	997
8 29	11 49	27.6612	18 15 18.804	4	4	9003 WOOMERA	15578	4 SJ	998
8 29	14 27	16.5046	6 12 38.830	4	4	9012 MAUI	11015	2 PG	1689
8 29	14 27	20.5045	6 13 58.554	4	4	9012 MAUI	11015	3 PG	1690
8 29	18 13	2.1988	2 58 15.940	4	4	9003 WOOMERA	15582	6 LT	999
8 29	18 13	10.1989	3 1 33.717	4	4	9003 WOOMERA	15582	8 LT	1000
8 30	1 32	51.8421	14 37 37.980	4	4	9011 VILLA DOLO	10457	9 PG	1685
8 30	2 5	27.7339	1 18 12.523	4	4	9002 OLIFANTS	14256	5 HC	9852
8 30	2 5	35.7340	1 22 18.523	4	4	9002 OLIFANTS	14256	6 HC	9863
8 30	10 1	22.2367	23 58 17.240	4	4	9007 AREQUIPA	9964	2 DM	9961
8 30	10 1	38.2366	0 3 17.482	4	4	9007 AREQUIPA	9964	4 DM	597
8 30	10 7	27.8317	4 2 58.557	4	4	9010 JUPITER	10817	3 PL	139
8 30	10 7	51.8325	4 14 20.760	4	4	9010 JUPITER	10817	6 PL	140
8 30	11 26	13.4532	23 12 9.721	4	4	9003 WOOMERA	15595	4 LT	1001
8 30	11 26	21.4530	23 27 14.360	4	4	9003 WOOMERA	15595	6 LT	1002
8 30	23 4	53.4735	16 52 12.316	4	4	9011 VILLA DOLO	10459	8 PG	1686
8 31	9 38	32.4521	0 26 55.236	4	4	9007 AREQUIPA	9977	3 DM	9963
8 31	9 38	40.4518	0 29 51.488	4	4	9007 AREQUIPA	9977	4 DM	9964
8 31	9 47	16.1519	6 2 42.650	4	4	9010 JUPITER	10849	4 PL	141
8 31	9 47	32.1525	6 10 2.733	4	4	9010 JUPITER	10849	6 PL	595
8 31	11 3	18.1911	0 36 21.216	4	4	9003 WOOMERA	15606	3 LT	1003
8 31	11 3	38.1905	0 46 25.652	4	4	9003 WOOMERA	15606	8 LT	1004
8 31	12 1	25.2515	14 29 29.756	4	4	9003 WOOMERA	15607	9 LT	7672
8 31	12 1	29.2516	14 29 45.383	4	4	9003 WOOMERA	15607	10 LT	1556
9 1	9 15	27.4854	0 59 51.066	4	4	9007 AREQUIPA	9988	4 LT	2212
9 1	9 15	51.4848	1 10 24.326	4	4	9007 AREQUIPA	9988	7 LT	2213
9 1	9 22	2.4377	5 36 41.599	4	4	9010 JUPITER	10873	3 VD	1612
9 2	8 57	56.3724	5 39 32.858	4	4	9010 JUPITER	10885	7 VD	1613
9 2	8 58	4.3734	5 42 46.574	4	4	9010 JUPITER	10885	8 VD	1614
9 2	14 52	9.0990	3 55 23.202	4	4	9012 MAUI	11116	3 LD	4725
9 2	14 52	15.0989	3 59 15.597	4	4	9012 MAUI	11116	6 LD	4726
9 3	0 44	2.7327	5 5 52.075	4	4	9008 SHIRAZ	13886	4 BA	2920
9 3	14 28	10.7458	4 19 36.719	4	4	9012 MAUI	11136	3 LD	4727

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 9 3	14 28 18.7458	1	4 24 41.329	1 17 11.40	9012 MAUI	11136	7 LD	4728
9 4	23 6 25.7408	1	14 30 16.647	-58 25 6.16	9011 VILLA DOLO	10502	5 MY	3014
9 4	23 6 29.7407	1	14 32 59.297	-59 3 45.25	9011 VILLA DOLO	10502	6 MY	4946
9 5	13 41 14.2041	1	5 29 15.128	11 37 25.33	9012 MAUI	11157	2 LD	4729
9 5	13 41 26.2069	1	5 35 38.584	12 58 37.27	9012 MAUI	11157	8 LD	4730
9 5	23 32 9.9556	1	5 34 2.135	- 4 13 21.30	9008 SHIRAZ	13945	5 BA	2181
9 5	23 32 13.9557	1	5 35 49.067	- 3 49 6.00	9008 SHIRAZ	13945	6 BA	2182
9 6	11 22 42.0513	1	3 57 5.212	7 29 30.22	9001 ORGAN PASS	11520	5 BA	2195
9 6	11 22 50.0513	1	4 2 52.897	8 37 38.04	9001 ORGAN PASS	11520	9 BA	2196
9 6	12 39 52.3945	1	14 32 49.361	-68 27 4.00	9003 WOOMERA	15703	4 HC	2230
9 6	12 39 56.3943	1	14 34 7.685	-68 55 38.00	9003 WOOMERA	15703	5 HC	2231
9 7	12 16 41.7226	1	15 1 5.534	-80 27 52.10	9003 WOOMERA	15722	6 HC	9344
9 7	12 16 49.5553	1	15 11 42.770	-81 28 42.39	9003 WOOMERA	15722	8 HC	2233
9 8	0 46 17.3068	1	3 52 18.794	36 38 16.69	9008 SHIRAZ	13986	3 BA	2183
9 8	0 46 19.3068	1	3 54 17.955	36 55 37.65	9008 SHIRAZ	13986	4 BA	2184
9 8	4 43 16.4738	1	4 19 30.745	18 36 6.62	9004 SAN FERNAN	10383	4 LD	5330
9 8	4 43 24.4736	1	4 26 17.309	19 37 59.78	9004 SAN FERNAN	10383	6 LD	5331
9 8	11 53 41.5912	1	0 4 47.700	-83 22 44.71	9003 WOOMERA	15738	4 HC	2234
9 8	11 53 49.5907	1	0 18 47.593	-82 15 56.98	9003 WOOMERA	15738	6 HC	2235
9 8	14 31 14.6064	1	2 46 11.698	59 20 2.53	9012 MAUI	11174	5 LD	4731
9 8	14 31 22.6065	1	2 55 35.178	60 21 31.44	9012 MAUI	11174	9 LD	4732
9 9	4 19 28.2668	1	4 52 47.793	20 50 46.31	9004 SAN FERNAN	10397	4 LD	5810
9 9	4 19 32.2666	1	4 56 10.265	21 16 50.11	9004 SAN FERNAN	10397	5 LD	5333
9 9	10 11 32.1921	1	5 26 50.401	16 19 33.64	9001 ORGAN PASS	11563	6 BA	2197
9 9	10 11 36.1922	1	5 29 26.550	16 41 36.36	9001 ORGAN PASS	11563	7 BA	2198
9 9	11 29 19.9843	1	0 35 14.522	-80 22 36.50	9003 WOOMERA	15759	5 HC	2236
9 9	11 29 39.9836	1	0 47 15.942	-77 28 25.90	9003 WOOMERA	15759	10 HC	2237
9 9	12 5 5.7824	1	5 37 9.617	12 16 29.68	9012 MAUI	11190	3 LD	4733
9 9	12 5 21.7825	1	5 42 55.042	13 26 56.39	9012 MAUI	11190	7 LD	4734
9 9	14 7 17.9700	1	3 45 28.948	60 45 28.24	9012 MAUI	11197	2 LD	4735
9 9	14 7 29.9729	1	4 1 36.954	61 43 51.74	9012 MAUI	11197	8 LD	4736
9 9	21 59 51.1832	1	5 10 16.453	32 7 5.32	9006 NAINI TAL	8482	4 RD	4579
9 9	22 0 7.1839	1	5 23 46.602	33 25 28.92	9006 NAINI TAL	8482	8 RD	4580
9 9	23 58 37.3066	1	5 16 2.482	38 17 8.12	9008 SHIRAZ	14017	4 BA	2185
9 10	9 50 6.3704	1	1 27 43.476	60 53 40.07	9010 JUPITER	11013	8 VD	1615
9 10	21 36 6.4245	1	5 39 32.651	31 55 44.31	9006 NAINI TAL	8497	4 RD	7096
9 10	21 36 18.4248	1	5 48 23.311	32 38 27.88	9006 NAINI TAL	8497	7 RD	4581
9 10	23 33 4.6127	1	23 25 48.036	17 55 34.58	9006 NAINI TAL	8504	5 RD	5807
9 10	23 33 20.6131	1	23 28 17.751	19 43 8.26	9006 NAINI TAL	8504	7 RD	4583
9 10	23 35 0.4682	1	5 56 1.490	37 44 32.20	9008 SHIRAZ	14032	7 BA	2186
9 10	23 35 4.4679	1	5 59 14.016	37 54 55.72	9008 SHIRAZ	14032	9 BA	2187
9 11	10 43 12.2983	1	0 57 51.567	-53 30 24.02	9003 WOOMERA	15789	3 HC	2238
9 11	10 43 32.2978	1	0 59 42.404	-51 7 39.15	9003 WOOMERA	15789	8 HC	2239
9 11	11 25 26.7833	1	3 0 58.147	58 31 38.42	9001 ORGAN PASS	11598	2 MY	2416
9 11	11 25 30.7833	1	3 6 34.253	59 4 8.42	9001 ORGAN PASS	11598	3 MY	6275

DATE		TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.				
Y	M	D	H	M	S	MS	H	M	S	D	M	S							
1963	9	11	13	19	48.2657	1	5	45	25.501	57	22	39.48	4	9012	MAUI	11232	3	DM	4349
	9	11	13	20	8.2661	1	6	5	6.767	57	25	37.02	4	9012	MAUI	11232	8	DM	4350
	9	11	21	12	16.6983	1	5	56	40.011	30	53	12.59	4	9006	NAINI TAL	8511	4	RD	4584
	9	11	21	12	36.6989	1	6	9	18.352	31	46	4.27	4	9006	NAINI TAL	8511	9	RD	4585
	9	11	23	10	38.1666	1	5	51	38.222	34	40	15.57	4	9008	SHIRAZ	14048	7	PL	2398
	9	11	23	10	42.1666	1	5	54	31.604	34	50	49.11	4	9008	SHIRAZ	14048	8	PL	2917
	9	11	23	14	23.9634	1	1	54	48.951	71	39	18.98	4	9006	NAINI TAL	8515	3	RD	5808
	9	11	23	14	31.9636	1	2	7	48.102	72	47	55.59	4	9006	NAINI TAL	8515	5	RD	4587
	9	12	1	12	10.6710	1	0	39	24.342	64	16	24.79	4	9008	SHIRAZ	14057	5	PL	2400
	9	12	1	12	18.6711	1	0	45	3.392	65	39	11.63	4	9008	SHIRAZ	14057	7	PL	2401
	9	12	8	57	50.4220	1	23	51	21.934	25	49	33.94	4	9010	JUPITER	11032	4	VD	1616
	9	12	10	56	15.9492	1	23	59	5.640	11	57	27.68	4	9001	ORGAN PASS	11610	5	MY	2418
9	12	12	54	0.6353	1	4	24	9.439	51	11	37.33	4	9012	MAUI	11241	2	DM	4937	
9	12	12	54	24.6359	1	4	48	5.169	52	18	32.72	4	9012	MAUI	11241	8	DM	4352	
9	12	14	52	8.0954	1	22	26	28.757	29	37	37.06	4	9012	MAUI	11247	3	DM	4353	
9	12	14	52	24.0956	1	22	27	45.683	31	23	0.79	4	9012	MAUI	11247	7	DM	4354	
9	12	15	0	49.8721	1	11	55	2.808	83	36	0.48	4	9012	MAUI	11250	3	DM	4355	
9	12	15	1	5.8723	1	11	47	19.203	81	50	13.96	4	9012	MAUI	11250	7	DM	4356	
9	12	22	46	47.4116	1	6	5	31.178	33	4	3.27	4	9008	SHIRAZ	14069	3	PL	2402	
9	12	22	46	55.4119	1	6	10	27.130	33	19	46.20	4	9008	SHIRAZ	14069	5	PL	2403	
9	13	0	42	53.9938	1	23	8	48.966	20	4	8.26	4	9008	SHIRAZ	14071	3	PL	2404	
9	13	0	43	5.9936	1	23	10	57.573	21	30	49.28	4	9008	SHIRAZ	14071	6	PL	2405	
9	13	8	35	19.3922	1	0	59	4.052	46	6	19.89	4	9010	JUPITER	11045	6	VD	1617	
9	13	8	35	31.3925	1	1	8	41.605	48	13	30.64	4	9010	JUPITER	11045	9	VD	1618	
9	13	10	33	44.0264	1	0	50	4.009	28	32	7.15	4	9001	ORGAN PASS	11624	2	MY	2419	
9	13	10	33	48.0264	1	0	52	26.780	29	13	19.90	4	9001	ORGAN PASS	11624	3	MY	2420	
9	13	11	55	25.1061	1	21	3	24.661	-72	2	19.46	4	9003	WOODMERA	15829	9	BA	2924	
9	13	11	55	33.1059	1	21	18	36.838	-71	15	43.71	4	9003	WOODMERA	15829	11	BA	2263	
9	13	14	29	8.0970	1	22	24	44.143	40	35	1.96	4	9012	MAUI	11269	3	BN	4357	
9	13	14	29	24.0970	1	22	26	12.509	42	39	27.96	4	9012	MAUI	11269	7	BN	4358	
9	13	14	36	21.8846	1	10	54	22.029	81	49	14.88	4	9012	MAUI	11271	3	BN	4359	
9	13	14	36	37.8848	1	10	56	42.804	80	4	14.46	4	9012	MAUI	11271	7	BN	4360	
9	13	19	47	10.0152	1	15	57	49.094	-65	49	34.31	4	9002	OLIFANTS	14503	7	BA	2260	
9	13	22	22	0.7756	1	5	41	51.272	29	30	41.19	4	9008	SHIRAZ	14083	3	PL	2406	
9	13	22	22	4.7756	1	5	44	13.450	29	41	5.92	4	9008	SHIRAZ	14083	4	PL	2407	
9	13	23	42	53.3486	1	0	33	0.761	-40	20	7.25	4	9011	VILLA DOLO	10514	4	VD	3016	
9	13	23	43	1.3482	1	0	33	51.038	-39	29	20.04	4	9011	VILLA DOLO	10514	5	VD	3017	
9	14	0	20	9.2791	1	23	26	30.011	34	12	0.22	4	9008	SHIRAZ	14087	6	PL	2408	
9	14	0	20	17.2791	1	23	28	49.141	35	27	59.60	4	9008	SHIRAZ	14087	8	PL	2409	
9	14	1	40	49.8179	1	17	14	53.527	-63	35	40.05	4	9011	VILLA DOLO	10523	3	VD	3674	
9	14	1	40	53.8179	1	17	20	9.196	-63	45	9.81	4	9011	VILLA DOLO	10523	4	VD	3019	
9	14	4	15	58.9078	1	23	55	49.822	14	18	33.02	4	9004	SAN FERNAN	10447	4	LD	5334	
9	14	4	16	10.9077	1	23	59	45.056	15	46	36.01	4	9004	SAN FERNAN	10447	7	LD	5335	
9	14	8	11	54.5350	1	2	16	5.640	54	58	39.53	4	9010	JUPITER	11059	4	VD	1619	
9	14	8	11	58.5354	1	2	20	58.017	55	29	41.96	4	9010	JUPITER	11059	5	VD	1620	

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.-NO.
1963	9 14	14 6 1.6360	22 27 28.774	52 48 51.72	9012 MAUI	11280	3 BN	4361
	9 14	14 6 9.6362	22 28 33.533	53 58 3.36	9012 MAUI	11280	7 BN	4362
	9 14	14 11 46.6651	10 4 50.956	80 35 8.63	9012 MAUI	11281	3 LT	4363
	9 14	14 12 6.6654	10 14 20.908	78 27 31.07	9012 MAUI	11281	8 LT	4364
	9 14	21 58 11.2913	5 49 51.609	28 25 49.72	9008 SHIRAZ	14100	6 PL	2410
	9 14	21 58 15.2922	5 51 54.300	28 34 13.99	9008 SHIRAZ	14100	7 PL	2411
	9 15	1 17 47.9765	19 43 25.772	-66 7 54.39	9011 VILLA DOLO	10543	2 VD	3020
	9 15	1 17 51.9763	19 50 21.069	-65 53 22.82	9011 VILLA DOLO	10543	3 VD	3021
	9 15	1 54 3.7835	5 4 39.752	14 10 21.53	9004 SAN FERNAN	10451	3 LD	5336
	9 15	1 54 7.7834	5 6 49.052	14 26 5.91	9004 SAN FERNAN	10451	4 LD	5337
	9 15	3 52 14.7856	0 8 57.035	19 10 45.96	9004 SAN FERNAN	10454	4 LD	5338
	9 15	3 52 18.7856	0 10 39.347	19 44 20.51	9004 SAN FERNAN	10454	5 LD	5339
	9 15	7 48 19.1878	3 39 33.166	57 31 48.18	9010 JUPITER	11074	4 VD	2472
	9 15	11 8 29.3523	23 32 43.964	-53 9 13.84	9003 WOOMERA	15868	7 BA	2264
	9 15	12 42 19.1720	22 34 24.516	61 0 16.10	9012 MAUI	11298	6 LT	4365
	9 15	13 42 23.1721	22 35 21.679	61 36 11.84	9012 MAUI	11298	8 LT	4366
	9 15	23 32 54.3067	0 19 51.173	52 15 56.31	9008 SHIRAZ	14117	4 PL	2412
	9 15	23 32 58.3067	0 22 54.858	52 58 21.96	9008 SHIRAZ	14117	6 PL	2413
	9 16	0 54 53.1647	22 6 58.579	-55 5 3.13	9011 VILLA DOLO	10560	6 VD	3022
	9 16	0 54 57.1644	22 10 32.303	-55 28 2.39	9011 VILLA DOLO	10560	7 VD	3023
	9 16	9 22 58.3013	3 41 9.098	45 27 13.91	9001 ORGAN PASS	11649	2 MY	2421
	9 16	9 23 2.3014	3 45 46.295	45 45 27.65	9001 ORGAN PASS	11649	3 MY	2422
	9 16	10 45 14.1994	23 53 21.475	-41 7 14.83	9003 WOOMERA	15892	5 BA	2265
	9 16	10 45 26.1992	23 56 7.381	-39 27 22.31	9003 WOOMERA	15892	8 BA	2266
	9 16	11 21 37.0413	22 36 52.331	27 31 44.31	9001 ORGAN PASS	11653	3 MY	2423
	9 16	11 22 1.0405	22 39 50.404	30 9 47.76	9001 ORGAN PASS	11653	6 MY	2424
	9 16	23 9 32.1728	1 45 46.767	62 19 12.40	9008 SHIRAZ	14126	3 PL	2918
	9 16	23 9 38.1728	1 54 31.199	63 4 2.33	9008 SHIRAZ	14126	6 PL	2415
	9 17	0 31 45.9800	23 5 4.658	-42 32 53.14	9011 VILLA DOLO	10583	6 BN	3024
	9 17	0 31 49.9799	23 6 50.597	-41 54 46.82	9011 VILLA DOLO	10583	7 BN	3025
	9 17	1 9 44.7519	22 20 57.650	38 33 40.27	9008 SHIRAZ	14130	3 SJ	2240
	9 17	1 10 8.7512	22 22 14.638	41 8 42.73	9008 SHIRAZ	14130	6 SJ	2241
	9 17	2 29 35.5877	16 57 0.632	-31 0 52.48	9011 VILLA DOLO	10588	5 BN	3026
	9 17	2 29 43.5876	17 1 6.514	-30 49 46.50	9011 VILLA DOLO	10588	6 BN	7103
	9 17	3 5 56.6408	2 6 50.866	41 28 45.30	9004 SAN FERNAN	10464	4 LD	5732
	9 17	3 6 0.6407	2 11 9.523	42 2 6.60	9004 SAN FERNAN	10464	5 LD	6276
	9 17	8 59 56.8098	5 11 13.003	45 37 48.62	9001 ORGAN PASS	11663	4 MY	2425
	9 17	9 0 0.8099	5 14 56.779	45 40 34.80	9001 ORGAN PASS	11663	5 MY	2426
	9 17	10 22 2.4935	0 0 58.337	-30 40 41.23	9003 WOOMERA	15914	3 BA	2257
	9 17	10 22 14.4934	0 2 51.923	-29 18 10.63	9003 WOOMERA	15914	6 BA	2258
	9 17	10 58 5.6075	22 34 54.911	34 26 42.98	9001 ORGAN PASS	11668	2 MY	2427
	9 17	10 58 21.6059	22 37 26.411	36 30 25.46	9001 ORGAN PASS	11668	4 MY	2428
	9 17	12 20 5.2888	18 1 6.725	-42 39 20.83	9003 WOOMERA	15925	3 BA	2259
	9 17	12 20 13.2888	18 8 7.214	-42 20 24.47	9003 WOOMERA	15925	5 BA	2270
	9 17	16 52 C.5520	3 46 37.247	43 12 26.35	9005 TOKYO	8896	2 MY	2546

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	9 17	16 52 32.5522	4 23 8.040	44 56 59.24	9005 TOKYO	8896	10 MY	2547
	9 17	18 14 39.0730	23 43 13.448	-49 19 42.04	9002 OLIFANTS	14582	7 BA	2261
	9 17	18 51 3.4921	22 48 17.493	30 8 56.37	9005 TOKYO	8900	5 MY	2548
	9 17	18 51 27.4914	22 52 27.516	32 57 36.90	9005 TOKYO	8900	8 MY	2549
	9 17	20 48 34.7080	5 26 34.352	61 7 49.59	9006 NAINI TAL	8539	4 RD	4588
	9 17	20 48 46.7083	5 41 22.678	60 46 27.87	9006 NAINI TAL	8539	7 RD	4589
	9 17	22 46 35.2432	4 37 14.569	65 36 54.57	9008 SHIRAZ	14141	3 SJ	2242
	9 17	22 46 37.2433	4 40 33.703	65 36 23.20	9008 SHIRAZ	14141	4 SJ	2243
	9 17	22 46 47.9087	22 7 49.998	39 41 29.18	9006 NAINI TAL	8540	4 RD	4590
	9 17	22 47 11.9088	22 9 31.050	42 31 38.05	9006 NAINI TAL	8540	7 RD	4591
	9 18	2 6 52.0226	17 46 10.039	-29 53 6.99	9011 VILLA DOLO	10607	6 MY	3028
	9 18	2 6 56.0225	17 48 45.629	-29 40 51.13	9011 VILLA DOLO	10607	7 MY	3029
	9 18	8 36 32.5342	5 52 12.400	42 34 39.77	9001 ORGAN PASS	11676	3 MY	2429
	9 18	8 36 40.5342	5 57 49.038	42 30 57.37	9001 ORGAN PASS	11676	4 MY	2430
	9 18	17 50 36.0927	23 47 57.195	-44 26 48.38	9002 OLIFANTS	14609	6 PL	1909
	9 18	19 48 42.4896	16 54 46.971	-40 53 32.72	9002 OLIFANTS	14614	4 PL	1910
	9 18	19 48 58.4897	17 4 27.060	-40 36 36.41	9002 OLIFANTS	14614	6 PL	1911
	9 18	20 25 16.7058	6 26 5.121	55 8 44.57	9006 NAINI TAL	8553	6 RD	4592
	9 18	20 25 32.7064	6 38 17.580	54 24 2.41	9006 NAINI TAL	8553	8 RD	4593
	9 18	22 23 6.1025	5 54 40.787	60 34 10.87	9008 SHIRAZ	14149	4 SJ	2244
	9 18	22 23 10.1027	5 59 1.830	60 23 12.75	9008 SHIRAZ	14149	5 SJ	2245
	9 18	22 23 11.2587	22 1 18.327	46 58 3.08	9006 NAINI TAL	8559	5 RD	4594
	9 18	22 23 43.2579	22 4 0.797	51 17 12.47	9006 NAINI TAL	8559	9 RD	4595
	9 18	22 44 34.7635	23 30 46.384	-26 50 47.62	9011 VILLA DOLO	10630	3 PG	2926
	9 19	0 21 8.7391	21 58 19.792	42 22 6.45	9008 SHIRAZ	14153	4 SJ	2246
	9 19	0 21 20.7389	21 59 10.021	43 48 50.95	9008 SHIRAZ	14153	7 SJ	2247
	9 19	1 43 26.4900	18 41 50.454	-72 26 0.00	9007 AREQUIPA	10150	3 LT	2214
	9 19	1 43 34.4901	18 54 49.424	-72 17 18.08	9007 AREQUIPA	10150	4 LT	2215
	9 19	2 19 1.8255	4 35 44.437	45 44 48.42	9004 SAN FERNAN	10481	6 LD	5734
	9 19	2 19 5.8255	4 40 7.674	45 49 23.27	9004 SAN FERNAN	10481	7 LD	6277
	9 19	4 17 16.5388	22 38 58.475	31 1 21.41	9004 SAN FERNAN	10485	5 LD	5736
	9 19	4 17 48.5383	22 45 5.491	34 50 31.07	9004 SAN FERNAN	10485	9 LD	5737
	9 19	11 33 17.6174	20 10 34.113	-37 47 2.91	9003 WOODMERA	15975	6 BA	2271
	9 19	11 33 23.6171	20 15 59.823	-36 59 11.64	9003 WOODMERA	15975	9 BA	2272
	9 19	17 27 50.4350	23 59 44.489	-30 13 0.19	9002 OLIFANTS	14627	8 PL	1912
	9 19	19 25 53.6208	17 55 15.080	-41 9 9.60	9002 OLIFANTS	14633	6 PL	1913
	9 19	19 26 9.6205	18 7 50.057	-40 18 54.95	9002 OLIFANTS	14633	8 PL	1914
	9 19	21 59 50.6349	22 0 6.685	57 48 9.63	9006 NAINI TAL	8573	5 LT	2502
	9 19	22 0 2.6351	22 1 40.380	59 36 40.64	9006 NAINI TAL	8573	8 LT	2503
	9 20	1 16 42.2364	16 38 44.552	-38 3 7.67	9011 VILLA DOLO	10657	4 PG	2723
	9 20	1 16 50.2359	16 44 12.811	-37 53 6.63	9011 VILLA DOLO	10657	5 PG	2724
	9 20	1 57 6.7484	6 32 51.183	40 56 9.99	9004 SAN FERNAN	10499	3 LD	5738
	9 20	1 57 22.7486	6 42 15.143	40 25 44.11	9004 SAN FERNAN	10499	5 LD	5739
	9 20	3 58 52.1427	5 58 47.007	76 57 23.86	9004 SAN FERNAN	10504	6 LD	5740
	9 20	9 50 51.9854	7 11 44.514	73 47 57.93	9001 ORGAN PASS	11701	7 MY	2431

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. VD.
1963	9 20	11 54 21.1885	22 5 53.000	87 38 17.82	9001 ORGAN PASS	11708	3 VD	2534
	9 20	11 54 25.1887	21 53 32.838	88 16 4.11	9001 ORGAN PASS	11708	4 VD	2535
	9 20	12 44 34.6616	20 35 21.727	67 32 44.74	9012 MAUI	11321	4 LD	5322
	9 20	12 44 46.6617	20 31 41.612	68 52 23.19	9012 MAUI	11321	7 LD	5323
	9 20	19 2 40.7151	18 59 16.122	-39 14 13.45	9002 OLIFANTS	14654	4 PL	1915
	9 20	19 2 44.7144	19 2 46.837	-38 51 22.64	9002 OLIFANTS	14654	5 PL	1916
	9 20	21 39 12.8483	8 16 23.192	83 48 2.26	9006 NAINI TAL	8584	4 LT	2504
	9 20	21 39 28.8486	8 44 1.306	81 39 27.36	9006 NAINI TAL	8584	8 LT	2505
	9 20	23 38 7.2962	9 17 41.891	82 20 22.03	9008 SHIRAZ	14183	4 SJ	2248
	9 20	23 38 23.2961	9 28 25.115	80 6 23.88	9008 SHIRAZ	14183	8 SJ	2249
	9 21	0 52 6.2716	16 23 10.906	-41 4 53.28	9011 VILLA DOLO	10676	5 PG	2725
	9 21	0 52 10.2717	16 26 6.675	-41 1 35.19	9011 VILLA DOLO	10676	6 PG	2726
	9 21	0 54 27.9240	19 37 31.991	-76 24 45.16	9007 AREQUIPA	10189	4 LT	2216
	9 21	0 54 51.9244	20 21 32.159	-74 53 27.14	9007 AREQUIPA	10189	7 LT	2217
	9 21	9 26 40.1744	7 19 2.762	69 20 29.65	9001 ORGAN PASS	11719	3 MY	2922
	9 21	9 27 12.1741	7 48 40.430	65 50 21.35	9001 ORGAN PASS	11719	7 MY	2536
	9 21	10 47 24.4632	22 18 50.152	-13 6 26.20	9003 WOOMERA	15999	3 MY	2432
	9 21	13 20 38.8531	20 9 43.271	72 54 10.29	9012 MAUI	11334	2 VD	1621
	9 21	13 20 54.8539	20 0 58.463	74 40 2.17	9012 MAUI	11334	6 VD	1622
	9 21	18 39 47.5660	20 27 27.588	-29 58 34.35	9002 OLIFANTS	14664	6 PL	2474
	9 21	18 39 55.5658	20 33 32.894	-28 44 58.60	9002 OLIFANTS	14664	8 PL	2475
	9 21	21 15 23.5485	8 38 11.437	76 20 19.78	9006 NAINI TAL	8600	3 LT	2506
	9 21	21 15 47.5491	8 52 32.919	73 18 22.08	9006 NAINI TAL	8600	6 LT	2507
	9 21	22 14 18.7494	9 10 9.440	74 49 38.52	9008 SHIRAZ	14198	6 SJ	2250
	9 21	23 14 26.7496	9 13 15.318	73 47 46.61	9008 SHIRAZ	14198	8 SJ	2251
	9 22	0 28 10.0703	16 40 29.914	-43 35 38.51	9011 VILLA DOLO	10693	6 PG	2727
	9 22	0 28 14.0702	16 43 57.204	-43 29 46.82	9011 VILLA DOLO	10693	7 PG	2728
	9 22	0 30 24.9346	21 1 31.318	-75 1 57.61	9007 AREQUIPA	10201	4 LT	2218
	9 22	0 30 56.9343	21 40 38.213	-71 40 19.84	9007 AREQUIPA	10201	8 LT	2219
	9 22	1 17 43.8531	15 44 24.436	86 41 13.07	9008 SHIRAZ	14204	4 SJ	2252
	9 22	1 17 55.8536	14 5 33.337	85 55 49.03	9008 SHIRAZ	14204	7 SJ	2253
	9 22	3 10 18.3277	6 49 42.796	70 2 56.53	9004 SAN FERNAN	10534	3 LD	5741
	9 22	3 10 30.3281	7 6 56.690	68 39 43.85	9004 SAN FERNAN	10534	6 LD	5742
	9 22	5 12 4.8190	23 52 17.106	70 32 5.33	9004 SAN FERNAN	10543	4 LD	5743
	9 22	5 12 20.8192	0 8 5.211	72 59 14.60	9004 SAN FERNAN	10543	8 LD	5744
	9 22	11 4 34.7936	22 4 33.323	83 49 44.13	9001 ORGAN PASS	11735	2 MY	2537
	9 22	11 4 46.7944	22 4 25.153	85 44 29.17	9001 ORGAN PASS	11735	5 MY	2538
	9 22	12 22 22.9826	18 6 48.858	-3 30 55.99	9003 WOOMERA	16020	4 MY	2433
	9 22	12 22 30.9826	18 10 36.178	-2 45 38.03	9003 WOOMERA	16020	6 MY	2434
	9 22	12 57 1.8546	19 10 55.368	80 18 56.49	9012 MAUI	11346	6 VD	1623
	9 22	12 57 5.8546	19 4 58.673	80 42 49.20	9012 MAUI	11346	7 VD	1624
	9 22	20 14 19.0424	17 6 48.086	-11 1 51.74	9002 OLIFANTS	14693	6 PL	1919
	9 22	20 14 27.0423	17 9 27.008	-10 31 52.30	9002 OLIFANTS	14693	7 PL	1920
	9 22	20 51 6.7460	8 20 28.849	72 40 13.98	9006 NAINI TAL	8611	5 LT	2508
	9 22	20 51 22.7461	8 29 16.694	70 45 29.71	9006 NAINI TAL	8611	7 LT	2509

DATE		TIME (A-1)		RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.		MS	OBS. NO.			
Y	M	D	H	M	S		H	M	S	D	M	S							
1963	9	22	22	49	45.8630	1	8	41	54.650	73	19	40.37	4	9008	SHIRAZ	14215	6	SJ	2254
	9	22	22	49	53.8630	1	8	45	38.024	72	19	51.99	4	9008	SHIRAZ	14215	8	SJ	2255
	9	23	0	4	21.6498	1	17	14	22.594	-45	27	21.18	4	9011	VILLA DOLO	10702	4	PG	2730
	9	23	0	4	25.6498	1	17	18	24.081	-45	15	55.18	4	9011	VILLA DOLO	10702	5	PG	2731
	9	23	0	6	39.9011	1	22	13	12.273	-69	20	32.16	4	9007	AREQUIPA	10220	5	LT	2220
9	23	0	6	47.9012	1	22	18	30.542	-68	19	42.42	4	9007	AREQUIPA	10220	7	LT	2221	
9	23	4	48	55.4140	1	3	19	51.049	82	28	15.55	4	9004	SAN FERNAN	10560	3	LD	5745	
9	23	4	49	3.4137	1	4	6	7.079	82	40	16.27	4	9004	SAN FERNAN	10560	5	LD	5746	
9	23	12	0	8.4232	1	19	7	41.645	9	3	20.03	4	9003	WOOMERA	16033	4	LD	5809	
9	23	12	0	12.4231	1	19	9	42.292	9	29	31.17	4	9003	WOOMERA	16033	5	LD	5327	
9	23	17	54	5.9663	1	22	25	19.114	-3	30	57.43	4	9002	OLIFANTS	14716	5	PL	1921	
9	23	17	54	13.9675	1	22	28	11.517	-2	30	59.17	4	9002	OLIFANTS	14716	6	PL	1922	
9	23	19	52	42.2759	1	17	56	36.855	0	50	46.94	4	9002	OLIFANTS	14721	9	PL	1923	
9	23	19	52	50.2759	1	17	59	40.259	1	35	34.36	4	9002	OLIFANTS	14721	10	PL	1924	
9	23	20	27	11.0812	1	8	13	13.427	66	46	41.05	4	9006	NAINI TAL	8623	4	LT	2510	
9	23	20	27	19.0812	1	8	16	31.964	65	54	34.54	4	9006	NAINI TAL	8623	5	LT	2511	
9	23	22	29	23.7118	1	17	31	36.982	85	52	0.39	4	9006	NAINI TAL	8628	4	LT	2512	
9	23	22	29	35.7120	1	15	54	35.169	86	13	16.95	4	9006	NAINI TAL	8628	7	LT	2513	
9	23	23	43	12.5804	1	22	52	10.809	-59	48	12.23	4	9007	AREQUIPA	10237	7	VD	1639	
9	24	0	28	47.9386	1	12	29	3.451	84	11	8.01	4	9008	SHIRAZ	14236	4	SJ	2256	
9	24	0	28	55.9386	1	12	6	23.003	83	13	15.37	4	9008	SHIRAZ	14236	6	SJ	2257	
9	24	1	43	54.1454	1	16	57	25.821	-39	19	31.42	4	9007	AREQUIPA	10243	3	VD	1610	
9	24	1	44	10.1450	1	17	6	12.977	-38	38	30.21	4	9007	AREQUIPA	10243	5	VD	2471	
9	24	2	22	43.0939	1	7	36	38.358	56	14	21.57	4	9004	SAN FERNAN	10570	4	LD	5747	
9	24	2	22	51.0946	1	7	41	5.169	55	23	42.69	4	9004	SAN FERNAN	10570	5	LD	6278	
9	24	4	24	25.0642	1	4	2	52.316	82	51	52.12	4	9004	SAN FERNAN	10578	4	LD	5749	
9	24	4	24	29.0641	1	4	26	55.090	82	48	47.89	4	9004	SAN FERNAN	10578	5	LD	6279	
9	24	10	16	19.7547	1	9	8	34.683	85	20	40.20	4	9001	ORGAN PASS	11750	4	VD	2539	
9	24	10	16	27.7547	1	9	15	51.287	84	5	50.44	4	9001	ORGAN PASS	11750	6	VD	2540	
9	24	11	36	59.7895	1	19	46	44.590	16	35	39.12	4	9003	WOOMERA	16048	5	LD	5328	
9	24	11	37	19.7890	1	19	56	37.944	18	38	28.53	4	9003	WOOMERA	16048	10	LD	5329	
9	24	17	31	18.6923	1	22	54	23.718	5	55	10.26	4	9002	OLIFANTS	14737	7	PL	1925	
9	24	17	31	41.7976	1	23	0	19.461	8	0	15.41	4	9002	OLIFANTS	14737	9	PL	1926	
9	24	19	29	1.3910	1	18	7	45.514	4	19	28.43	4	9002	OLIFANTS	14741	3	HC	2222	
9	24	19	29	5.3905	1	18	9	25.127	4	44	15.35	4	9002	OLIFANTS	14741	4	HC	2223	
9	24	22	1	27.0392	1	8	9	56.424	64	51	57.88	4	9008	SHIRAZ	14248	4	BA	2188	
9	24	22	4	54.1798	1	15	34	44.210	86	21	57.98	4	9006	NAINI TAL	8646	4	LT	2514	
9	24	22	5	6.1802	1	13	55	53.455	85	56	41.18	4	9006	NAINI TAL	8646	7	LT	2515	
9	25	0	3	38.9409	1	14	55	37.602	86	29	45.63	4	9008	SHIRAZ	14251	3	BA	2189	
9	25	0	3	50.9410	1	13	22	29.792	85	46	18.94	4	9008	SHIRAZ	14251	6	BA	2190	
9	25	19	6	50.7971	1	19	3	48.369	18	28	36.04	4	9002	OLIFANTS	14762	5	HC	2224	
9	25	19	6	58.7968	1	19	7	26.028	19	21	26.86	4	9002	OLIFANTS	14762	6	HC	2925	
9	25	23	39	24.6280	1	11	51	27.199	84	14	14.16	4	9008	SHIRAZ	14269	2	BA	2191	
9	25	23	39	44.6279	1	11	7	3.362	81	44	34.24	4	9008	SHIRAZ	14269	7	BA	2192	
9	26	3	36	42.2412	1	8	10	28.896	70	50	51.90	4	9004	SAN FERNAN	10612	3	PG	2732	

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.VO.
1963 9 26	3 36 46.2413	1	8 13 48.508	70 12 29.91	4	9004 SAN FERNAN	10612	4 PG	2733
9 26	11 32 3.5803	1	7 49 38.820	82 20 25.15	4	9001 ORGAN PASS	11798	5 BN	2541
9 26	11 32 11.5814	1	8 9 32.913	81 8 56.81	4	9001 ORGAN PASS	11798	7 3N	2542
9 26	18 44 10.1563	1	19 53 41.963	29 3 41.38	4	9002 OLIFANTS	14780	3 HC	2226
9 26	18 44 26.1560	1	20 1 5.681	30 34 3.73	4	9002 OLIFANTS	14780	5 HC	2227
9 26	21 17 28.2781	1	9 58 44.303	73 17 4.62	4	9006 NAINI TAL	8666	4 LT	2516
9 26	21 17 52.2785	1	9 53 41.177	70 12 32.37	4	9006 NAINI TAL	8666	7 LT	2517
9 26	23 15 7.7920	1	10 39 9.396	81 9 16.79	4	9008 SHIRAZ	14281	3 BA	2193
9 26	23 15 23.7925	1	10 23 46.251	79 1 52.31	4	9008 SHIRAZ	14281	7 BA	2194
9 27	1 20 33.2928	1	8 54 39.367	76 40 55.40	4	9008 SHIRAZ	14290	5 BA	2199
9 27	3 12 35.5396	1	8 16 5.332	65 36 4.90	4	9004 SAN FERNAN	10629	3 PG	2734
9 27	3 12 39.5396	1	8 18 13.920	64 59 15.19	4	9004 SAN FERNAN	10629	4 PG	2735
9 27	5 16 4.0422	1	6 7 7.870	66 51 4.34	4	9004 SAN FERNAN	10638	2 PG	2736
9 27	5 16 8.0424	1	6 14 36.723	66 22 8.90	4	9004 SAN FERNAN	10638	3 PG	2737
9 27	9 4 31.2244	1	8 41 9.883	65 29 48.63	4	9001 ORGAN PASS	11805	3 BN	2543
9 27	9 4 47.2231	1	8 44 11.478	63 27 16.79	4	9001 ORGAN PASS	11805	5 BN	2544
9 27	15 8 0.4809	1	11 8 27.392	70 32 4.43	4	9012 MAUI	11403	3 VD	1625
9 27	15 8 4.4811	1	11 7 30.466	70 1 57.60	4	9012 MAUI	11403	4 VD	2473
9 27	18 21 45.9834	1	20 52 22.089	38 22 45.85	4	9002 OLIFANTS	14805	6 HC	2228
9 27	18 21 53.9839	1	20 55 51.294	38 55 16.54	4	9002 OLIFANTS	14805	7 HC	2229
9 27	20 53 4.8044	1	9 33 57.341	71 0 14.68	4	9006 NAINI TAL	8679	3 LT	2518
9 27	20 53 20.8048	1	9 31 55.482	68 59 50.42	4	9006 NAINI TAL	8679	5 LT	2519
9 28	2 48 42.2486	1	8 18 40.772	58 44 8.49	4	9004 SAN FERNAN	10648	2 PG	2738
9 28	2 48 46.2487	1	8 20 3.691	58 10 20.96	4	9004 SAN FERNAN	10648	3 PG	2739
9 28	4 51 48.9254	1	6 44 57.313	65 10 18.23	4	9004 SAN FERNAN	10661	4 PG	1814
9 28	4 51 52.9253	1	6 50 51.112	64 33 52.16	4	9004 SAN FERNAN	10661	5 PG	1815
9 28	20 28 49.5835	1	9 10 5.711	67 45 30.68	4	9006 NAINI TAL	8695	4 LT	2520
9 28	20 29 5.5836	1	9 9 24.201	65 50 5.41	4	9006 NAINI TAL	8695	6 LT	2521
9 28	22 28 5.6274	1	9 15 23.558	63 8 39.73	4	9008 SHIRAZ	14317	3 LD	4719
9 28	22 28 9.6272	1	9 15 17.765	62 40 21.45	4	9008 SHIRAZ	14317	4 LD	4720
9 28	22 31 30.3791	1	9 5 14.529	87 11 31.52	4	9006 NAINI TAL	8702	5 LT	2204
9 28	22 31 35.1353	1	9 11 12.061	86 28 20.70	4	9006 NAINI TAL	8702	6 LT	2205
9 28	23 43 6.9120	1	17 36 45.444	0 26 14.44	4	9011 VILLA DOLD	10724	11 PG	2927
9 28	23 43 10.9120	1	17 38 58.150	0 52 58.92	4	9011 VILLA DOLD	10724	12 PG	2729
9 29	2 24 16.6478	1	8 5 22.693	56 48 43.08	4	9004 SAN FERNAN	10673	4 PG	1812
9 29	2 24 20.6477	1	8 6 38.857	56 16 37.47	4	9004 SAN FERNAN	10673	5 PG	1813
9 29	4 26 37.2962	1	5 43 15.834	70 52 45.11	4	9004 SAN FERNAN	10680	4 PG	1818
9 29	4 26 41.2963	1	5 51 41.917	70 24 13.46	4	9004 SAN FERNAN	10680	5 PG	1819
9 29	8 16 6.3438	1	8 8 22.673	58 23 48.03	4	9001 ORGAN PASS	11838	2 MY	2545
9 29	8 16 14.3441	1	8 9 51.711	57 30 21.98	4	9001 ORGAN PASS	11838	3 MY	2923
9 29	20 4 50.1933	1	8 48 22.012	62 49 56.67	4	9006 NAINI TAL	8709	4 LT	2919
9 29	20 5 14.1938	1	8 48 52.322	60 9 55.55	4	9006 NAINI TAL	8709	7 LT	2207
9 29	22 7 49.7131	1	9 29 33.903	77 50 31.04	4	9006 NAINI TAL	8715	4 LT	2208
9 29	22 8 9.7135	1	9 29 31.097	74 46 27.28	4	9006 NAINI TAL	8715	9 LT	2209
9 30	0 6 35.9232	1	9 6 31.646	76 29 31.28	4	9008 SHIRAZ	14331	2 LD	4721

DATE		TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS. NO.		
Y	M	D	H	M	S	MS	H	M	S	D	M	S						
1963	9	30	0	6	55.9236	1	9	11	50.902	73	18	58.44	4	9008	SHIRAZ	14331	7 LD	4722
	9	30	2	0	31.8415	1	8	2	7.200	49	57	49.26	4	9004	SAN FERNAN	10690	3 PG	1816
	9	30	2	0	39.8418	1	8	3	58.254	49	1	58.88	4	9004	SAN FERNAN	10690	4 PG	1817
	9	30	11	59	16.0934	1	6	18	29.814	56	36	6.75	4	9001	ORGAN PASS	11870	3 BA	2258
	9	30	11	59	26.0935	1	6	30	56.962	55	4	1.38	4	9001	ORGAN PASS	11870	8 BA	2259
	9	30	13	53	15.1550	1	11	2	15.429	74	37	28.43	4	9012	MAUI	11428	3 LD	5324
	9	30	13	53	31.1550	1	10	53	11.801	72	51	23.57	4	9012	MAUI	11428	7 LD	5325
	9	30	21	43	22.3833	1	9	23	43.661	75	41	21.35	4	9006	NAINI TAL	8736	4 LT	2210
	9	30	21	43	34.3836	1	9	22	46.282	73	53	20.15	4	9006	NAINI TAL	8736	7 LT	2211
	9	30	23	42	13.9710	1	9	7	9.510	73	32	40.74	4	9008	SHIRAZ	14352	6 LD	4723
	9	30	23	42	21.9711	1	9	8	6.951	72	18	0.57	4	9008	SHIRAZ	14352	8 LD	4724

DATE Y M D	TIME (A-I)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.				
	H	M	S		H	M	S	D	M	S								
1963	7	1	1	36.5904	1	21	28	42.518	41	34	51.10	4	9004	SAN FERNAN	8819	2	MY	8323
	7	1	1	52.5900	1	21	41	40.583	41	53	28.91	4	9004	SAN FERNAN	8819	4	MY	8324
	7	1	1	41.7569	1	22	1	5.120	64	43	38.90	4	9009	CURACAO	8123	3	VD	7617
	7	1	1	48.7574	1	22	7	52.167	64	29	49.75	4	9009	CURACAO	8123	4	VD	7618
	7	1	1	12.4113	1	17	0	6.366	71	48	55.86	4	9009	CURACAO	8127	3	VD	7619
	7	1	1	57.1476	1	17	36	27.675	75	15	39.71	4	9009	CURACAO	8127	6	VD	7620
	7	1	1	53.0465	1	22	49	19.696	55	11	31.89	4	9010	JUPITER	9845	8	GL	8372
	7	1	1	1.0470	1	22	55	44.458	54	58	7.69	4	9010	JUPITER	9845	9	GL	8373
	7	1	1	49.3176	1	21	18	11.243	45	6	5.20	4	9001	ORGAN PASS	10902	3	DM	7434
	7	1	1	57.3174	1	21	25	11.982	45	16	7.99	4	9001	ORGAN PASS	10902	4	DM	7435
	7	1	1	49.2946	1	22	25	26.428	66	34	30.14	4	9010	JUPITER	9849	3	GL	8374
	7	1	1	57.2952	1	22	34	57.764	66	29	13.31	4	9010	JUPITER	9849	4	GL	8375
	7	1	1	43.6338	1	22	48	37.393	29	10	16.82	4	9008	SHIRAZ	12645	5	VD	7629
	7	1	1	5.9253	1	23	21	15.851	29	30	53.46	4	9008	SHIRAZ	12645	11	VD	7630
	7	1	1	54.9439	1	22	29	25.193	56	8	38.85	4	9008	SHIRAZ	12655	3	VD	7631
	7	1	1	23.6591	1	22	55	8.510	55	21	51.13	4	9008	SHIRAZ	12655	6	VD	7632
	7	2	2	4.7841	1	20	19	48.885	58	24	31.62	4	9008	SHIRAZ	12662	2	LT	7545
	7	2	2	14.3414	1	20	28	18.168	58	49	11.70	4	9008	SHIRAZ	12662	3	LT	7546
	7	2	2	49.7049	1	21	54	50.512	39	9	55.24	4	9004	SAN FERNAN	8835	2	MY	8325
	7	2	2	57.7047	1	22	1	3.552	39	12	38.82	4	9004	SAN FERNAN	8835	4	MY	8326
	7	2	2	39.4230	1	22	4	18.336	51	9	44.19	4	9010	JUPITER	9856	3	HC	8376
	7	2	2	3.4259	1	22	23	38.998	50	44	40.19	4	9010	JUPITER	9856	6	HC	8815
	7	2	2	24.7750	1	21	30	31.500	67	3	12.21	4	9010	JUPITER	9861	6	LD	8377
	7	2	2	32.7756	1	21	40	55.377	67	4	4.65	4	9010	JUPITER	9861	7	LD	2477
	7	2	2	37.5187	1	20	7	52.867	72	24	2.57	4	9012	MAUI	10033	3	MY	9321
	7	2	2	53.5199	1	20	34	1.163	72	41	1.44	4	9012	MAUI	10033	5	MY	9322
	7	2	2	5.0720	1	22	31	56.921	75	15	28.06	4	9012	MAUI	10038	2	SU	8250
	7	2	2	21.0732	1	22	56	47.962	74	56	41.59	4	9012	MAUI	10038	4	SU	8251
	7	2	2	47.0275	1	22	43	3.995	51	45	45.68	4	9008	SHIRAZ	12676	3	LT	7547
	7	2	2	56.5925	1	22	50	31.804	51	26	51.16	4	9008	SHIRAZ	12676	4	LT	7548
	7	2	2	59.3742	1	22	7	11.397	11	14	31.35	4	9004	SAN FERNAN	8851	2	MY	8327
	7	2	2	15.3739	1	22	13	22.922	11	50	37.97	4	9004	SAN FERNAN	8851	4	MY	8328
	7	3	3	33.3709	1	22	36	9.043	34	57	13.63	4	9004	SAN FERNAN	8859	2	MY	8329
	7	3	3	49.3709	1	22	46	14.610	34	47	28.04	4	9004	SAN FERNAN	8859	4	MY	8330
	7	3	3	26.9047	1	19	42	32.307	41	47	10.75	4	9004	SAN FERNAN	8866	2	BA	7387
	7	3	3	50.9049	1	20	0	29.743	42	57	39.81	4	9004	SAN FERNAN	8866	5	BA	7388
	7	3	3	30.6529	1	20	26	54.857	43	44	48.73	4	9010	JUPITER	9880	3	LD	8379
	7	3	3	38.6538	1	20	34	38.148	44	0	32.74	4	9010	JUPITER	9880	4	LD	8380
	7	3	3	21.5457	1	20	58	2.146	79	26	33.66	4	9009	CURACAO	8148	8	VD	7621
	7	3	3	29.5457	1	21	14	54.748	79	17	4.62	4	9009	CURACAO	8148	9	VD	7622
	7	3	3	2.6185	1	21	54	36.627	34	39	55.29	4	9001	ORGAN PASS	10924	4	DM	7436
	7	3	3	10.6172	1	21	59	59.631	34	43	35.35	4	9001	ORGAN PASS	10924	5	DM	7693
	7	3	3	17.8429	1	20	53	54.688	66	47	29.74	4	9010	JUPITER	9886	4	LD	8381
	7	3	3	33.8441	1	21	16	3.845	66	52	9.04	4	9010	JUPITER	9886	6	LD	8382
	7	3	3	53.8698	1	0	2	10.488	81	33	5.88	4	9009	CURACAO	8149	4	VD	7623

DATE Y M D	TIME (A-1) H M S			RMS MS	R.A. (1950.0) H M S			DECL. (1950.0) D M S			STATION	FRAME NO.	MS	OBS. NO.
1963	7	3	7 32	1.8696	1	0 15 54.256	81 8 51.80	4	9009	CURACAO	8149	5	VD	7624
	7	3	9 24 24.6383	1	20 41 11.053	55 8 38.86	4	9001	ORGAN PASS	10930	5	DM	7437	7438
	7	3	9 24 40.6404	1	20 58 29.220	55 28 13.16	4	9001	ORGAN PASS	10930	7	DM	7438	7439
	7	3	13 20 59.5382	1	22 12 19.542	76 38 44.41	4	9012	MAUI	10045	4	SU	8252	8253
	7	3	13 21 15.5390	1	22 40 14.246	76 15 1.78	4	9012	MAUI	10045	6	SU	8253	8254
	7	3	15 9 24.3892	1	21 56 16.552	30 27 31.22	4	9005	TOKYO	8574	4	PG	8979	8980
	7	3	20 58 50.7758	1	22 12 14.170	47 35 13.89	4	9008	SHIRAZ	12696	4	LT	7549	7550
	7	3	20 58 55.5642	1	22 15 58.775	47 28 32.13	4	9008	SHIRAZ	12696	5	LT	7550	7551
	7	4	0 53 11.1199	1	22 25 4.344	30 9 38.20	4	9004	SAN FERNAN	8888	3	BA	7389	7390
	7	4	0 53 35.1191	1	22 38 52.711	30 5 5.55	4	9004	SAN FERNAN	8888	6	BA	7390	7391
	7	4	2 54 57.9474	1	21 17 43.347	46 3 53.07	4	9004	SAN FERNAN	8893	3	DM	7391	7392
	7	4	2 55 21.9475	1	21 39 45.391	46 4 55.86	4	9004	SAN FERNAN	8893	6	DM	7392	7393
1963	7	4	4 40 47.3252	1	19 12 15.100	78 5 40.60	4	9009	CURACAO	8168	6	VD	8125	8126
	7	4	4 41 51.5129	1	21 25 40.107	77 9 4.24	4	9009	CURACAO	8168	9	VD	7626	7627
	7	4	8 50 42.9029	1	23 56 20.556	62 1 32.48	4	9010	JUPITER	9911	3	LD	8383	8384
	7	4	8 50 58.9037	1	0 10 10.166	61 2 45.22	4	9010	JUPITER	9911	5	LD	8384	8385
	7	4	8 55 47.6217	1	1 57 5.588	70 9 20.84	4	9009	CURACAO	8171	3	VD	7627	7628
	7	4	8 56 27.6222	1	2 19 45.557	67 27 25.71	4	9009	CURACAO	8171	8	VD	7628	7629
	7	4	10 3 21.5927	1	10 17 22.183	20 35 17.96	4	9003	WOODERA	14924	2	YK	8349	8350
	7	4	10 3 56.3320	1	10 56 33.523	27 32 31.01	4	9003	WOODERA	14924	10	YK	8350	8351
	7	4	10 33 18.3545	1	22 39 59.943	63 41 57.94	4	9012	MAUI	10060	5	SU	8254	8255
	7	4	10 33 34.3547	1	22 53 12.066	62 46 54.63	4	9012	MAUI	10060	7	SU	8255	8256
	7	4	12 36 44.5714	1	21 29 56.388	77 53 0.63	4	9012	MAUI	10062	5	SU	8256	8257
	7	4	12 37 0.5719	1	22 2 41.078	77 32 19.69	4	9012	MAUI	10062	7	SU	8257	8258
1963	7	4	14 45 17.7521	1	1 17 33.641	61 41 32.48	4	9012	MAUI	10069	4	SJ	8646	8647
	7	4	14 45 49.7522	1	1 37 20.603	59 20 54.56	4	9012	MAUI	10069	8	SJ	8647	8648
	7	4	20 16 7.8485	1	22 29 14.277	40 36 56.72	4	9008	SHIRAZ	12719	3	LT	7551	7552
	7	4	20 16 46.3109	1	22 50 47.628	39 43 15.65	4	9008	SHIRAZ	12719	7	LT	7552	7553
	7	4	22 18 48.2684	1	22 1 16.529	62 33 12.56	4	9008	SHIRAZ	12724	4	4	7553	7554
	7	4	22 19 16.9740	1	22 34 9.837	61 23 31.76	4	9008	SHIRAZ	12724	7	4	7554	7555
	7	4	23 40 44.2569	1	11 19 34.764	-54 6 14.24	4	9007	AREQUIPA	9212	2	LT	8448	8449
	7	4	23 40 56.2551	1	12 1 10.674	-52 50 38.52	4	9007	AREQUIPA	9212	5	LT	8449	8450
	7	5	2 11 36.5552	1	21 24 10.391	45 7 0.13	4	9004	SAN FERNAN	8912	2	BA	7393	7394
	7	5	2 12 8.5557	1	21 53 46.294	44 44 18.32	4	9004	SAN FERNAN	8912	6	BA	7394	7395
	7	5	6 1 45.9024	1	22 53 20.794	59 18 0.27	4	9010	JUPITER	9913	4	LD	8385	8386
	7	5	6 1 53.9027	1	23 0 1.331	58 48 42.71	4	9010	JUPITER	9913	5	LD	8386	8387
	7	5	9 49 50.9955	1	22 28 45.395	58 15 8.66	4	9012	MAUI	10084	3	SJ	8648	8649
1963	7	5	9 50 22.9963	1	22 49 51.573	56 30 40.41	4	9012	MAUI	10084	7	SJ	8649	8650
	7	5	11 52 10.1702	1	19 49 0.025	78 34 0.81	4	9012	MAUI	10089	2	SJ	8650	8651
	7	5	11 52 58.1622	1	21 43 47.026	78 8 10.44	4	9012	MAUI	10089	8	SJ	8651	8652
	7	5	14 1 3.3974	1	1 13 50.149	63 54 3.51	4	9012	MAUI	10094	2	SJ	8652	8653
	7	5	14 1 35.3012	1	1 32 31.580	61 24 5.29	4	9012	MAUI	10094	6	SJ	8653	8654
	7	5	22 57 26.2557	1	10 19 38.164	26 0 47.06	4	9011	VILLA DOLD	9766	4	MY	8777	8778
1963	7	6	1 28 32.1663	1	21 47 24.577	42 23 1.89	4	9004	SAN FERNAN	8931	2	BA	7395	7396
	7	6	1 28 45.1663	1	21 57 49.909	42 6 9.71	4	9004	SAN FERNAN	8931	5	BA	7396	7397

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 7 6	3 33 54.4912	1	23 11 14.499	39 30 14.59	9004 SAN FERNAN	8938	4 BA	7397
7 6	3 34 10.4914	1	23 22 11.274	38 39 11.60	9004 SAN FERNAN	8938	6 BA	7398
7 6	7 22 27.5581	1	23 29 17.438	65 5 4.08	9010 JUPITER	9922	6 GL	8387
7 6	7 22 35.5583	1	23 36 53.977	64 29 29.60	9010 JUPITER	9922	7 GL	8388
7 6	9 26 37.9186	1	22 44 31.702	56 1 4.62	9010 JUPITER	9928	3 GL	8389
7 6	9 27 1.9195	1	23 5 34.189	55 0 34.77	9010 JUPITER	9928	6 GL	8390
7 6	11 8 21.4742	1	19 52 25.468	78 59 25.64	9012 MAUI	10106	3 YK	7960
7 6	11 9 9.4745	1	21 52 20.994	77 38 17.96	9012 MAUI	10106	9 YK	7961
7 6	13 15 43.5238	1	0 21 53.586	70 39 22.01	9012 MAUI	10112	3 YK	7952
7 6	13 16 15.5240	1	0 48 19.496	68 9 48.74	9012 MAUI	10112	7 YK	7963
7 6	22 42 45.7119	1	21 23 55.969	12 8 42.64	9004 SAN FERNAN	8950	2 BA	7701
7 6	22 43 17.7104	1	21 38 56.668	13 24 53.56	9004 SAN FERNAN	8950	6 BA	7702
7 6	22 56 55.5767	1	23 30 54.648	57 53 20.39	9008 SHIRAZ	12749	2 4	7555
7 6	22 57 5.2783	1	23 38 56.894	57 10 0.16	9008 SHIRAZ	12749	3 4	7556
7 7	0 17 48.4495	1	10 51 36.631	26 40 14.86	9007 AREQUIPA	9226	4 LT	8450
7 7	0 17 52.4496	1	10 55 55.224	27 47 57.56	9007 AREQUIPA	9226	6 LT	8451
7 7	0 44 28.4526	1	21 13 7.671	39 8 13.77	9004 SAN FERNAN	8960	3 BA	7703
7 7	0 44 40.4523	1	21 24 8.236	39 0 27.73	9004 SAN FERNAN	8960	6 BA	7704
7 7	2 47 38.3993	1	20 59 37.220	46 7 58.04	9004 SAN FERNAN	8966	3 BA	7399
7 7	2 47 50.3991	1	21 11 23.710	46 1 6.57	9004 SAN FERNAN	8966	6 BA	7400
7 7	6 37 30.8550	1	22 13 41.239	69 19 24.03	9010 JUPITER	9931	4 GL	8391
7 7	6 37 46.8558	1	22 35 30.868	68 16 27.16	9010 JUPITER	9931	6 GL	8392
7 7	8 34 36.3639	1	21 33 12.584	58 20 8.78	9001 ORGAN PASS	10951	2 DM	7439
7 7	8 44 15.2173	1	0 8 54.900	53 37 40.60	9010 JUPITER	9935	3 GL	8393
7 7	8 44 27.2176	1	0 17 3.146	52 41 12.51	9010 JUPITER	9935	6 GL	8394
7 7	8 50 50.5570	1	2 14 42.834	55 48 22.18	9009 CURACAD	8230	4 BN	9106
7 7	8 51 6.5574	1	2 20 38.849	54 33 12.56	9009 CURACAD	8230	6 BN	9107
7 7	10 24 51.0512	1	20 49 27.763	78 2 20.20	9012 MAUI	10132	2 YK	7954
7 7	10 25 31.0524	1	22 13 0.007	75 29 54.47	9012 MAUI	10132	7 YK	7965
7 7	10 41 28.5969	1	23 46 47.095	39 27 40.88	9001 ORGAN PASS	10958	3 DM	7440
7 7	10 41 36.5974	1	23 51 44.895	38 54 1.45	9001 ORGAN PASS	10958	4 DM	7441
7 7	12 31 16.1701	1	0 8 29.369	73 13 48.42	9012 MAUI	10136	4 YK	7966
7 7	12 31 48.1703	1	0 36 24.052	70 30 7.67	9012 MAUI	10136	8 YK	7967
7 7	14 39 42.1415	1	1 30 4.081	46 5 37.22	9012 MAUI	10143	2 YK	7968
7 7	14 39 58.1415	1	1 37 8.168	44 44 5.82	9012 MAUI	10143	4 YK	7969
7 7	18 11 1.3986	1	22 3 40.808	51 27 43.83	9006 NAINI TAL	8257	4 PG	7943
7 7	18 11 9.3996	1	22 10 21.451	51 0 11.35	9006 NAINI TAL	8257	5 PG	7944
7 7	20 8 52.3514	1	22 41 46.101	50 6 50.83	9008 SHIRAZ	12767	2 RD	7557
7 7	20 9 11.5223	1	22 54 11.598	48 52 45.45	9008 SHIRAZ	12767	4 RD	7558
7 7	22 12 14.0626	1	22 47 47.065	61 57 36.06	9008 SHIRAZ	12773	3 RD	7559
7 7	22 12 52.7428	1	23 24 35.185	58 54 59.68	9008 SHIRAZ	12773	7 RD	7560
7 7	23 34 33.4335	1	10 26 41.572	10 4 35.49	9007 AREQUIPA	9239	5 LT	8452
7 7	23 34 47.4337	1	10 47 30.298	15 6 59.61	9007 AREQUIPA	9239	12 LT	8453
7 8	0 1 17.3596	1	21 24 15.127	33 47 12.98	9004 SAN FERNAN	8985	3 BA	7401
7 8	0 1 37.3594	1	21 40 3.076	33 32 0.97	9004 SAN FERNAN	8985	8 BA	7402

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 8	1	0 29 46.265	35 51 41.83	9008 SHIRAZ	12777	5 RO	7561
	7 8	1	22 3 44.664	45 7 4.69	9004 SAN FERNAN	89920	2 PL	7451
	2 5	1	22 10 57.044	44 43 40.30	9004 SAN FERNAN	89920	4 PL	7452
	7 8	1	13 56 8.892	76 49 12.56	9009 CURACAO	8245	3 BN	98
	7 8	1	14 12 55.561	78 49 56.66	9009 CURACAO	8245	5 BN	9109
	7 8	1	18 55 18.405	32 13 49.04	9004 SAN FERNAN	9000	4 PL	7453
	7 8	1	18 59 48.758	32 25 53.09	9004 SAN FERNAN	9000	5 PL	6272
	7 8	1	20 56 41.323	71 29 50.24	9010 JUPITER	9950	5 GL	8395
	7 8	1	21 40 6.152	70 13 39.14	9010 JUPITER	9950	6 GL	8396
	7 8	1	21 23 38.283	58 0 45.94	9001 ORGAN PASS	10967	3 DM	7442
	7 8	1	21 28 44.286	57 49 15.44	9001 ORGAN PASS	10967	5 DM	7443
	7 8	1	23 57 31.917	57 34 8.16	9010 JUPITER	9955	4 GL	8397
	7 8	1	0 3 19.924	56 53 4.80	9010 JUPITER	9955	5 GL	8398
	7 8	1	2 7 49.873	59 6 2.93	9009 CURACAO	8251	4 BN	9110
	7 8	1	2 13 6.714	57 49 42.60	9009 CURACAO	8251	6 BN	9111
	7 8	1	20 26 1.731	76 47 15.29	9012 MAUI	10160	2 YK	7970
	7 8	1	21 48 46.178	73 55 30.94	9012 MAUI	10160	7 YK	7971
	7 8	1	0 13 24.107	73 43 45.51	9012 MAUI	10164	3 MY	9323
	7 8	1	0 26 17.760	72 12 35.75	9012 MAUI	10164	5 MY	9324
	7 8	1	1 10 35.558	53 10 22.95	9012 MAUI	10168	2 MY	9325
	7 8	1	1 18 8.710	51 45 55.58	9012 MAUI	10168	4 MY	9326
	7 8	1	21 12 55.849	49 29 48.68	9008 SHIRAZ	12791	3 RO	7552
	7 8	1	21 22 32.419	49 3 23.27	9008 SHIRAZ	12791	4 RO	7563
	7 8	1	21 32 18.783	66 21 40.21	9008 SHIRAZ	12798	2 VD	7927
	7 8	1	21 46 41.672	65 46 43.02	9008 SHIRAZ	12798	3 VD	7928
	7 8	1	20 49 42.922	27 12 23.45	9004 SAN FERNAN	9018	3 PL	7455
	7 8	1	20 56 21.931	27 19 19.97	9004 SAN FERNAN	9018	5 PL	7456
	7 8	1	23 45 33.237	45 45 30.37	9008 SHIRAZ	12803	2 LT	7929
	7 8	1	23 51 47.240	44 57 56.10	9008 SHIRAZ	12803	3 LT	7930
	7 9	1	13 3 42.811	- 8 27 11.15	9009 CURACAO	8265	5 BN	9112
	7 9	1	13 36 30.682	- 0 55 35.74	9009 CURACAO	8265	8 BN	7101
	7 9	1	21 21 13.716	46 31 31.29	9004 SAN FERNAN	9026	3 PL	7457
	7 9	1	21 37 49.303	45 49 50.34	9004 SAN FERNAN	9026	5 PL	7458
	7 9	1	21 14 28.582	36 15 11.13	9010 JUPITER	9969	4 GL	8399
	7 9	1	21 29 36.412	35 59 39.36	9010 JUPITER	9969	7 GL	8400
	7 9	1	18 26 55.297	13 0 7.23	9001 ORGAN PASS	10984	7 DM	7444
	7 9	1	18 31 34.995	13 32 55.37	9001 ORGAN PASS	10984	8 DM	7445
	7 9	1	19 26 55.546	71 52 49.45	9010 JUPITER	9971	3 GL	8401
	7 9	1	20 4 38.587	71 37 57.92	9010 JUPITER	9971	7 GL	8402
	7 9	1	17 54 44.644	- 1 32 26.00	9012 MAUI	10175	6 PG	8812
	7 9	1	18 4 11.494	0 24 34.94	9012 MAUI	10175	7 PG	7953
	7 9	1	20 5 11.527	58 7 11.06	9001 ORGAN PASS	10995	3 DM	7446
	7 9	1	20 11 32.312	58 3 25.51	9001 ORGAN PASS	10995	4 DM	7447
	7 9	1	22 48 38.521	50 41 59.50	9001 ORGAN PASS	11001	3 DM	7448
	7 9	1	22 52 3.922	50 23 32.40	9001 ORGAN PASS	11001	4 DM	7449

DATE Y M D	TIME (A-I) H M S		RMS MS	R.A. (1950.0) H M S		DECL. (1950.0) D M S		STATION	FRAME NO.	MS	OBS. NO.
1963	7	9	9 21 5.2524	1	23 47 23.763	36 42 17.09	4	9010 JUPITER	9979	3 GL	8403
	7	9	9 21 37.2535	1	0 5 31.181	34 10 34.66	4	9010 JUPITER	9979	7 GL	8404
	7	9	9 21 46.2423	1	21 34 33.911	60 0 25.95	4	9009 CURACAO	8271	4 BN	9114
	7	9	9 22 10.2434	1	21 52 31.249	59 43 13.52	4	9009 CURACAO	8271	7 BN	9115
	7	9	11 1 46.2684	1	22 27 35.901	81 21 35.75	4	9012 MAUI	10186	4 PG	7954
	7	9	11 1 54.2688	1	22 46 31.826	80 39 47.84	4	9012 MAUI	10186	5 PG	7955
	7	9	13 9 39.7651	1	0 55 50.307	58 51 43.78	4	9012 MAUI	10191	3 PG	7956
	7	9	13 9 47.7654	1	0 59 50.937	58 7 13.35	4	9012 MAUI	10191	4 PG	7957
	7	9	18 39 0.9083	1	19 43 38.962	42 17 37.28	4	9008 SHIRAZ	12815	5 HC	7895
	7	9	18 39 8.9090	1	19 54 0.623	42 23 0.91	4	9008 SHIRAZ	12815	6 HC	7896
7 9	22 50 19.8449	1	23 59 59.292	1	23 59 59.292	46 47 22.72	4	9008 SHIRAZ	12827	3 HC	7897
	22 50 35.8455	1	0 9 1.547	1	0 9 1.547	45 18 9.70	4	9008 SHIRAZ	12827	5 HC	7898
	0 17 3.7998	1	16 44 0.713	1	16 44 0.713	- 0 16 16.14	4	9009 CURACAO	8275	2 BN	9116
	0 17 19.7988	1	17 9 17.173	1	17 9 17.173	5 18 58.86	4	9009 CURACAO	8275	4 BN	9117
	0 36 41.0013	1	21 4 19.476	1	21 4 19.476	45 31 17.46	4	9004 SAN FERNAN	9055	3 PL	7459
	0 36 57.0013	1	21 21 46.033	1	21 21 46.033	44 47 38.23	4	9004 SAN FERNAN	9055	5 PL	7460
	2 42 5.9293	1	22 44 38.793	1	22 44 38.793	34 30 40.33	4	9004 SAN FERNAN	9060	4 PL	7461
	2 42 21.9296	1	22 55 31.730	1	22 55 31.730	33 24 10.61	4	9004 SAN FERNAN	9060	6 PL	7462
	4 18 39.1018	1	19 1 51.469	1	19 1 51.469	4 55 0.79	4	9001 ORGAN PASS	11010	6 DM	7450
	6 7 52.5027	1	17 27 13.164	1	17 27 13.164	-25 59 33.34	4	9012 MAUI	10203	4 PG	7958
7 10	6 8 0.5026	1	17 35 51.539	1	17 35 51.539	-23 57 29.02	4	9012 MAUI	10203	5 PG	7959
	6 22 8.3223	1	19 40 52.728	1	19 40 52.728	55 16 12.13	4	9001 ORGAN PASS	11017	2 LT	8030
	6 22 24.3241	1	20 6 56.444	1	20 6 56.444	54 58 26.18	4	9001 ORGAN PASS	11017	4 LT	8031
	8 27 22.3929	1	22 5 26.928	1	22 5 26.928	56 3 29.42	4	9001 ORGAN PASS	11024	2 LT	8032
	8 27 38.3925	1	22 22 26.231	1	22 22 26.231	54 47 21.65	4	9001 ORGAN PASS	11024	4 LT	8033
	8 36 51.1501	1	23 52 9.770	1	23 52 9.770	41 40 48.94	4	9010 JUPITER	9984	5 GL	8405
	8 36 59.1614	1	23 56 52.787	1	23 56 52.787	40 58 41.30	4	9010 JUPITER	9984	7 GL	8406
	8 43 39.6533	1	1 39 16.596	1	1 39 16.596	44 14 49.23	4	9009 CURACAO	8288	3 PG	8485
	8 44 19.6548	1	1 53 51.021	1	1 53 51.021	40 47 30.56	4	9009 CURACAO	8288	8 PG	8486
	10 17 0.9373	1	19 42 21.702	1	19 42 21.702	84 57 39.43	4	9012 MAUI	10211	5 PG	8094
7 10	10 17 8.9374	1	20 31 12.228	1	20 31 12.228	84 39 48.70	4	9012 MAUI	10211	6 PG	8095
	10 33 33.8970	1	23 17 27.485	1	23 17 27.485	27 3 51.14	4	9001 ORGAN PASS	11030	3 LT	8034
	10 33 41.8967	1	23 22 1.992	1	23 22 1.992	26 28 21.56	4	9001 ORGAN PASS	11030	4 LT	8035
	12 24 28.9541	1	0 33 35.654	1	0 33 35.654	65 33 48.24	4	9012 MAUI	10214	5 PG	7566
	12 24 36.9540	1	0 38 16.840	1	0 38 16.840	64 46 10.28	4	9012 MAUI	10214	6 PG	8818
	14 31 57.0857	1	0 47 0.827	1	0 47 0.827	32 43 26.65	4	9012 MAUI	10224	5 PG	7568
	14 32 5.0853	1	0 50 36.530	1	0 50 36.530	32 0 32.77	4	9012 MAUI	10224	6 PG	7569
	17 53 58.7093	1	17 35 55.249	1	17 35 55.249	20 49 42.57	4	9008 SHIRAZ	12840	2 HC	7899
	17 54 2.7098	1	17 42 1.837	1	17 42 1.837	21 30 53.61	4	9008 SHIRAZ	12840	3 HC	7900
	20 1 5.2583	1	23 0 56.771	1	23 0 56.771	55 25 9.85	4	9008 SHIRAZ	12848	3 HC	7901
7 10	20 1 21.2580	1	23 10 59.324	1	23 10 59.324	53 47 30.10	4	9008 SHIRAZ	12848	5 HC	7902
	22 4 34.5964	1	22 50 36.874	1	22 50 36.874	58 12 38.17	4	9008 SHIRAZ	12854	2 HC	7903
	22 4 50.5972	1	23 5 14.684	1	23 5 14.684	56 40 12.77	4	9008 SHIRAZ	12854	4 HC	7904
	23 52 28.0934	1	20 25 5.047	1	20 25 5.047	43 31 52.39	4	9004 SAN FERNAN	9066	4 PL	7463
	23 52 40.0933	1	20 39 50.749	1	20 39 50.749	43 9 10.78	4	9004 SAN FERNAN	9066	7 PL	7464

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 11	0 11 21.9971	23 47 0.280	22 46 48.36	4	9008 SHIRAZ	12863	4	7905
7 11	0 11 25.9972	1	23 49 0.876	22 27 45.58	4	9008 SHIRAZ	12863	5	7906
7 11	1 36 45.9248	1	18 12 20.616	- 5 10 3.40	4	9010 JUPITER	9985	6	8407
7 11	1 36 49.9247	1	18 16 37.964	- 4 20 37.38	4	9010 JUPITER	9985	7	8408
7 11	1 56 19.5368	1	21 9 11.989	43 39 59.16	4	9004 SAN FERNAN	9070	3	7465
7 11	1 56 27.5368	1	21 17 29.544	43 16 27.64	4	9004 SAN FERNAN	9070	5	7466
7 11	3 39 46.5037	1	16 52 50.905	64 41 3.46	4	9010 JUPITER	9991	4	103
7 11	3 40 2.5054	1	17 33 33.701	66 8 36.19	4	9010 JUPITER	9991	6	581
7 11	4 1 1.3643	1	21 54 0.117	17 33 22.61	4	9004 SAN FERNAN	9077	3	7457
7 11	4 1 13.3644	1	22 1 5.421	16 54 53.29	4	9004 SAN FERNAN	9077	6	7468
7 11	7 27 37.1885	1	15 26 26.757	56 17 44.97	4	9012 MAUI	10230	4	7570
7 11	7 27 45.1885	1	15 45 40.109	57 55 25.30	4	9012 MAUI	10230	8	7571
7 11	9 32 57.0186	1	19 27 13.045	85 50 53.23	4	9012 MAUI	10235	6	7572
7 11	9 33 5.0185	1	20 29 1.594	85 24 26.93	4	9012 MAUI	10235	7	7573
7 11	9 48 19.3099	1	22 36 54.900	36 46 52.28	4	9001 ORGAN PASS	11042	2	8036
7 11	9 48 35.3087	1	22 48 16.079	35 32 2.27	4	9001 ORGAN PASS	11042	4	8037
7 11	10 12 22.0848	1	3 29 39.104	30 28 15.77	4	9007 AREQUIPA	9290	4	8454
7 11	10 12 46.0848	1	3 36 9.104	28 56 44.54	4	9007 AREQUIPA	9290	7	8455
7 11	11 40 11.6249	1	0 41 24.570	66 37 12.18	4	9012 MAUI	10239	5	7574
7 11	11 40 19.6251	1	0 45 1.599	65 45 41.83	4	9012 MAUI	10239	6	7575
7 11	13 46 34.9246	1	0 27 12.917	43 2 32.67	4	9012 MAUI	10246	2	7576
7 11	13 46 42.9250	1	0 31 12.174	42 16 59.33	4	9012 MAUI	10246	3	7577
7 11	17 10 50.0382	1	18 12 39.453	7 53 1.32	4	9008 SHIRAZ	12863	3	7907
7 11	17 11 6.0405	1	18 32 41.938	10 34 4.79	4	9008 SHIRAZ	12863	5	7908
7 11	19 14 44.3136	1	19 31 8.684	66 38 19.22	4	9008 SHIRAZ	12872	3	7909
7 11	19 14 52.3146	1	19 49 40.744	66 15 16.43	4	9008 SHIRAZ	12872	4	7910
7 11	21 5 5.2440	1	18 44 48.826	- 7 42 53.17	4	9004 SAN FERNAN	9079	4	7527
7 11	21 5 9.2438	1	18 48 18.298	- 7 10 30.10	4	9004 SAN FERNAN	9079	5	7528
7 11	21 20 40.5918	1	23 6 22.092	58 32 33.19	4	9008 SHIRAZ	12876	3	7911
7 11	21 20 56.5924	1	23 19 4.379	56 43 43.15	4	9008 SHIRAZ	12876	5	7912
7 11	23 26 45.2177	1	23 40 2.943	29 36 12.90	4	9008 SHIRAZ	12881	3	7913
7 11	23 27 1.2187	1	23 48 24.466	28 11 18.77	4	9008 SHIRAZ	12881	5	7914
7 12	0 52 13.1968	1	11 46 51.042	46 23 23.15	4	9009 CURACAO	8306	2	8487
7 12	0 52 37.2011	1	12 12 9.684	54 25 46.62	4	9009 CURACAO	8306	5	8488
7 12	1 13 18.5080	1	22 2 25.337	41 46 12.44	4	9004 SAN FERNAN	9099	3	7529
7 12	1 13 26.5079	1	22 9 23.884	41 6 47.33	4	9004 SAN FERNAN	9099	5	7530
7 12	3 17 6.9177	1	21 55 36.500	21 30 50.52	4	9004 SAN FERNAN	9109	3	7531
7 12	3 17 18.9174	1	22 3 28.093	20 46 58.24	4	9004 SAN FERNAN	9109	6	7532
7 12	3 51 12.7522	1	5 31 31.658	5 53 10.16	4	9002 OLIFANTS	13411	3	8319
7 12	3 51 28.7523	1	5 35 34.738	5 7 31.90	4	9002 OLIFANTS	13411	5	8320
7 12	4 53 47.0676	1	17 56 16.662	38 51 29.48	4	9001 ORGAN PASS	11052	2	8038
7 12	4 53 55.0668	1	18 10 47.162	39 34 30.93	4	9001 ORGAN PASS	11052	4	8039
7 12	5 1 2.5941	1	21 7 43.471	76 26 5.85	4	9010 JUPITER	10003	4	7746
7 12	5 1 34.5951	1	22 14 29.155	72 53 56.55	4	9010 JUPITER	10003	8	7747
7 12	7 7 49.0205	1	23 46 2.895	51 50 3.27	4	9010 JUPITER	10007	4	7748

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 12	7 8 21.0222	0 4 19.351	48 21 42.97	4	9010 JUPITER	10007	8 LD	7749
	7 12	9 27 26.3198	3 15 8.867	34 5 25.37	4	9007 AREQUIPA	9300	4 LT	8456
	7 12	9 27 42.3364	3 18 55.022	33 7 33.46	4	9007 AREQUIPA	9300	6 LT	8457
	7 12	13 3 57.9140	1 16 14.569	36 15 38.68	4	9012 MAUI	10250	6 PG	7578
	7 12	13 4 5.9135	1 18 39.362	35 30 21.51	4	9012 MAUI	10250	7 PG	7579
	7 12	20 35 38.8874	22 11 12.830	66 6 4.41	4	9008 SHIRAZ	12903	2 RO	7915
	7 12	20 35 54.8884	22 30 56.383	64 8 16.45	4	9008 SHIRAZ	12903	4 RO	7916
	7 12	22 24 12.0705	19 2 25.293	30 45 17.21	4	9004 SAN FERNAN	9123	7 PL	7533
	7 12	22 24 14.0706	19 5 19.344	30 50 14.90	4	9004 SAN FERNAN	9123	8 PL	7534
	7 12	22 41 24.7174	23 7 3.997	40 17 58.61	4	9008 SHIRAZ	12907	2 RO	7917
	7 12	22 42 4.7187	23 31 47.940	36 18 27.70	4	9008 SHIRAZ	12907	7 RO	7918
	7 13	0 28 51.3959	21 31 19.475	44 46 9.06	4	9004 SAN FERNAN	9131	3 PL	7535
	7 13	0 28 59.3957	21 39 33.942	44 4 7.27	4	9004 SAN FERNAN	9131	5 PL	7536
	7 13	2 33 15.7383	22 4 5.172	24 52 53.37	4	9004 SAN FERNAN	9136	5 PL	7537
	7 13	2 33 19.7383	22 6 53.245	24 35 43.49	4	9004 SAN FERNAN	9136	6 PL	7538
	7 13	3 3 45.0391	4 25 18.212	17 35 35.42	4	9002 OLIFANTS	13423	2 MY	8321
	7 13	3 4 1.0383	4 28 52.026	16 47 2.60	4	9002 OLIFANTS	13423	4 MY	8322
	7 13	6 29 31.2491	1 38 9.556	54 13 10.45	4	9009 CURACAO	8335	4 BA	8491
	7 13	6 29 55.2485	1 43 5.740	52 3 21.94	4	9009 CURACAO	8335	7 BA	8492
	7 13	8 4 6.5026	13 19 53.890	80 30 44.63	4	9012 MAUI	10262	4 PG	7580
	7 13	8 4 14.5025	13 44 25.365	82 2 40.62	4	9012 MAUI	10262	5 PG	7581
	7 13	8 35 21.6421	0 48 42.246	29 54 29.31	4	9009 CURACAO	8340	5 BA	8493
	7 13	8 35 45.6425	0 58 26.504	27 40 18.59	4	9009 CURACAO	8340	8 BA	8494
	7 13	10 9 56.6827	0 12 30.764	80 12 33.11	4	9012 MAUI	10268	3 PG	8673
	7 13	10 10 4.6829	0 17 7.284	79 7 42.32	4	9012 MAUI	10268	4 PG	8674
	7 13	12 17 41.5538	0 42 37.067	50 8 34.11	4	9012 MAUI	10271	6 PG	8675
	7 13	12 17 49.5539	0 45 36.150	49 16 42.64	4	9012 MAUI	10271	7 PG	8676
	7 13	14 23 20.1661	23 54 8.167	15 31 35.02	4	9012 MAUI	10282	3 PG	8677
	7 13	14 23 28.1659	23 57 46.496	14 49 10.76	4	9012 MAUI	10282	4 PG	8678
	7 13	19 51 11.9257	21 40 8.282	69 42 36.85	4	9008 SHIRAZ	12927	5 RO	7919
	7 13	19 51 19.9260	21 53 17.810	68 37 40.76	4	9008 SHIRAZ	12927	6 RO	7920
	7 13	21 40 11.8605	18 26 30.119	18 33 15.31	4	9004 SAN FERNAN	9146	6 PL	7539
	7 13	21 40 15.8605	18 32 18.585	18 56 24.59	4	9004 SAN FERNAN	9146	8 PL	8098
	7 13	21 57 6.2687	23 12 10.287	44 37 33.53	4	9008 SHIRAZ	12932	4 VD	7921
	7 13	21 57 14.2692	23 17 20.955	43 42 49.84	4	9008 SHIRAZ	12932	5 VD	7922
	7 13	22 44 1.2721	20 18 43.931	48 45 45.61	4	9004 SAN FERNAN	9154	4 PL	1548
	7 13	23 44 13.2720	20 36 9.271	47 52 15.36	4	9004 SAN FERNAN	9154	7 PL	7540
	7 14	1 49 16.9174	22 10 23.242	28 4 44.45	4	9004 SAN FERNAN	9160	5 PL	7541
	7 14	1 49 24.9174	22 16 6.452	27 24 22.77	4	9004 SAN FERNAN	9160	7 PL	7542
	7 14	3 32 13.2646	17 41 49.242	80 0 53.85	4	9010 JUPITER	10022	3 LD	7750
	7 14	3 32 29.2668	19 8 40.824	79 36 8.11	4	9010 JUPITER	10022	7 LD	7751
	7 14	3 53 40.7425	22 10 0.803	- 1 50 31.34	4	9004 SAN FERNAN	9169	3 PL	7543
	7 14	3 54 12.7415	22 25 1.016	- 3 41 14.99	4	9004 SAN FERNAN	9169	7 PL	7544
	7 14	5 29 34.7603	18 12 29.243	64 17 22.19	4	9001 ORGAN PASS	11066	2 SJ	8040
	7 14	5 29 42.7613	18 34 52.404	64 17 28.42	4	9001 ORGAN PASS	11066	4 SJ	8041

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.VD.
1963 7 16	6 15 1.8048	1	23 30 23.755	43 39 17.09	9010 JUPITER	10066	5 LD	7755
7 16	6 20 31.4751	1	0 55 38.338	48 44 27.60	9009 CURACAO	8393	3 BA	8503
7 16	6 21 11.4758	1	1 6 32.333	44 34 42.48	9009 CURACAO	8393	8 BA	8504
7 16	7 55 52.0540	1	9 19 47.674	82 17 8.81	9012 MAUI	10311	5 PG	8685
7 16	7 56 0.0538	1	8 53 48.899	83 38 30.40	9012 MAUI	10311	6 PG	8686
7 16	8 33 43.0689	1	2 30 39.861	27 38 38.15	9007 AREQUIPA	9349	4 LT	8462
7 16	8 33 59.0688	1	2 34 33.871	26 35 45.19	9007 AREQUIPA	9349	6 LT	8463
7 16	10 1 51.8513	1	0 26 10.203	74 5 34.24	9012 MAUI	10316	2 PG	8687
7 16	10 1 59.8517	1	0 27 36.610	72 56 9.50	9012 MAUI	10316	3 PG	8688
7 16	17 38 6.0700	1	18 19 38.262	74 59 22.16	9008 SHIRAZ	13009	2 RD	8175
7 16	17 38 14.0712	1	18 56 49.197	74 11 26.54	9008 SHIRAZ	13009	3 RD	8174
7 16	19 42 45.9360	1	22 20 19.428	65 50 5.88	9008 SHIRAZ	13011	3 RD	8176
7 16	19 42 53.9362	1	22 29 1.345	64 26 5.80	9008 SHIRAZ	13011	4 RD	8177
7 16	21 31 10.1966	1	17 38 50.030	37 23 16.33	9004 SAN FERNAN	9240	5 GL	7500
7 16	21 31 12.1965	1	17 43 24.197	37 30 29.79	9004 SAN FERNAN	9240	6 GL	7501
7 16	21 48 25.8297	1	22 47 48.259	29 14 41.85	9008 SHIRAZ	13016	2 RD	8178
7 16	21 48 57.8311	1	23 5 59.737	25 35 2.19	9008 SHIRAZ	13016	6 RD	8179
7 16	23 35 C.3439	1	20 5 20.659	48 31 2.39	9004 SAN FERNAN	9249	3 GL	7502
7 16	23 35 8.3439	1	20 18 14.033	47 39 51.36	9004 SAN FERNAN	9249	5 GL	7503
7 16	23 53 25.7623	1	22 21 0.933	-11 8 27.05	9008 SHIRAZ	13021	9 3N	8180
7 16	23 53 33.7629	1	22 24 33.695	-11 39 57.13	9008 SHIRAZ	13021	10 3N	8181
7 17	1 19 52.1681	1	15 22 34.465	65 35 21.02	9010 JUPITER	10083	4 LD	7756
7 17	1 19 54.1681	1	15 31 21.482	65 56 2.78	9010 JUPITER	10083	5 LD	7757
7 17	1 39 28.4035	1	21 9 40.577	16 58 47.84	9004 SAN FERNAN	9257	3 GL	7504
7 17	1 39 32.4035	1	21 12 49.051	16 39 16.97	9004 SAN FERNAN	9257	4 GL	7505
7 17	3 43 26.0702	1	21 11 56.049	-12 6 28.53	9004 SAN FERNAN	9264	7 GL	7506
7 17	3 43 34.0699	1	21 15 29.239	-12 33 25.74	9004 SAN FERNAN	9264	8 GL	7507
7 17	5 29 14.0264	1	22 49 7.514	59 16 22.46	9010 JUPITER	10092	3 LD	7758
7 17	5 29 54.0285	1	23 17 3.019	53 2 45.88	9010 JUPITER	10092	8 LD	7759
7 17	7 11 45.8572	1	8 47 57.681	81 37 0.73	9012 MAUI	10336	5 PG	8689
7 17	7 11 49.8572	1	8 35 29.740	82 24 6.10	9012 MAUI	10336	6 PG	8690
7 17	7 48 24.6033	1	2 16 5.769	32 3 29.90	9007 AREQUIPA	9361	5 LT	8464
7 17	7 48 48.6032	1	2 21 11.610	30 32 0.39	9007 AREQUIPA	9361	8 LT	8465
7 17	9 35 42.1429	1	20 35 43.838	- 5 48 7.28	9010 JUPITER	10107	4 LD	7760
7 17	9 36 14.1427	1	20 47 36.940	- 7 48 40.70	9010 JUPITER	10107	8 LD	7761
7 17	10 0 29.6731	1	3 12 51.875	6 20 43.75	9011 VILLA DOLO	9853	3 MY	8778
7 17	10 0 45.6727	1	3 18 36.318	5 25 52.02	9011 VILLA DOLO	9853	5 MY	8779
7 17	18 57 59.0224	1	21 50 33.658	73 18 42.15	9008 SHIRAZ	13028	5 BN	8182
7 17	18 58 15.0230	1	22 14 30.610	70 3 53.39	9008 SHIRAZ	13028	7 3N	8183
7 17	20 47 9.7365	1	17 17 21.375	24 37 11.59	9004 SAN FERNAN	9270	4 GL	7508
7 17	20 47 11.7364	1	17 21 46.142	24 50 50.76	9004 SAN FERNAN	9270	5 GL	7509
7 17	21 2 54.7437	1	22 12 29.317	43 20 54.83	9008 SHIRAZ	13032	2 LT	7764
7 17	22 50 50.2884	1	19 58 30.047	50 21 56.13	9004 SAN FERNAN	9277	3 SU	8045
7 17	22 50 52.2884	1	20 2 8.324	50 6 29.13	9004 SAN FERNAN	9277	4 SU	8046
7 17	23 8 41.1508	1	22 18 2.187	- 5 50 15.20	9008 SHIRAZ	13041	4 LT	7765

DATE			TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION			FRAME NO.		MS	OBS. NO.
Y	M	D	H	M	S	MS	H	M	S	D	M	S	RMS	S					
1963	7	14	5	43	12.2608	1	1	18	34.059	65	26	50.58	4	9009	CJRACAD	8357	5	BA	8495
	7	14	5	43	52.2614	1	1	25	55.511	61	33	8.94	4	9009	CJRACAD	8357	10	BA	8496
	7	14	7	19	42.3896	1	12	23	31.485	72	24	41.92	4	9012	MAJI	10286	3	PG	8679
	7	14	7	19	46.3898	1	12	29	50.285	73	28	35.50	4	9012	MAJI	10286	4	PG	8680
	7	14	7	50	45.1175	1	0	58	18.480	35	27	31.63	4	9009	CJRACAD	8364	3	BA	8497
	7	14	7	51	9.1180	1	1	6	59.638	33	7	41.08	4	9009	CJRACAD	8364	6	BA	8498
	7	14	9	25	1.8709	1	1	3	33.067	86	36	35.83	4	9012	MAUI	10296	2	PG	8681
	7	14	9	25	5.8712	1	0	56	46.487	86	0	8.23	4	9012	MAUI	10296	3	PG	8682
	7	14	10	2	54.6341	1	2	33	29.541	21	43	53.05	4	9007	AREQUIPA	9324	2	LT	8458
	7	14	10	3	34.6341	1	2	46	27.045	18	53	59.92	4	9007	AREQUIPA	9324	7	LT	8459
7	14	11	32	43.0621	1	0	37	14.592	55	50	58.13	4	9012	MAUI	10298	4	PG	8683	
7	14	11	32	51.0623	1	0	39	55.675	54	55	11.32	4	9012	MAUI	10298	5	PG	8684	
7	14	19	6	47.2256	1	20	55	43.906	72	51	24.24	4	9008	SHIRAZ	12942	4	VD	7923	
7	14	19	7	3.2268	1	21	29	42.267	70	27	55.24	4	9008	SHIRAZ	12942	6	VD	7924	
7	14	20	56	12.8449	1	17	51	12.600	3	12	37.88	4	9004	SAN FERNAN	9174	3	PK	7490	
7	14	20	56	14.8450	1	17	54	2.041	3	30	58.29	4	9004	SAN FERNAN	9174	4	PK	7491	
7	14	21	12	6.0520	1	22	47	22.396	53	22	45.45	4	9008	SHIRAZ	12946	2	VD	7925	
7	14	21	12	22.0527	1	22	59	52.444	51	17	5.18	4	9008	SHIRAZ	12946	4	VD	7926	
7	14	22	59	54.4973	1	19	52	54.741	47	52	30.43	4	9004	SAN FERNAN	9182	4	PK	7492	
7	14	23	0	2.4973	1	20	5	58.649	47	17	31.85	4	9004	SAN FERNAN	9182	6	PK	7493	
7	14	23	17	29.6667	1	22	43	21.715	15	33	57.27	4	9008	SHIRAZ	12955	3	RD	8168	
7	14	23	17	37.6672	1	22	47	47.367	14	52	55.13	4	9008	SHIRAZ	12955	4	RD	8169	
7	15	3	9	35.9459	1	22	12	21.747	1	16	52.01	4	9004	SAN FERNAN	9199	5	GL	7494	
7	15	3	9	43.9459	1	22	16	29.362	0	47	6.20	4	9004	SAN FERNAN	9199	7	GL	7495	
7	15	4	45	29.6677	1	17	31	10.407	60	37	45.06	4	9001	ORGAN PASS	11079	2	SJ	8042	
7	15	4	45	41.6679	1	18	6	47.097	60	54	25.95	4	9001	ORGAN PASS	11079	5	SJ	8043	
7	15	4	53	45.7278	1	23	15	26.968	67	9	15.71	4	9010	JUPITER	10055	5	LD	7752	
7	15	4	53	49.7279	1	23	18	22.551	66	32	7.72	4	9010	JUPITER	10055	6	LD	7753	
7	15	9	11	10.9892	1	23	45	33.008	1	39	1.97	4	9009	CJRACAD	8376	4	BA	8499	
7	15	9	11	18.9894	1	23	48	54.065	0	57	9.15	4	9009	CJRACAD	8376	5	BA	8500	
7	15	9	18	38.6125	1	2	39	1.695	23	49	52.21	4	9007	AREQUIPA	9336	4	LT	8460	
7	15	9	18	46.6122	1	2	41	16.775	23	17	8.54	4	9007	AREQUIPA	9336	5	LT	8461	
7	15	16	25	29.4826	1	20	10	31.076	73	30	0.83	4	9006	NAINI TAL	8287	5	PG	7945	
7	15	16	25	33.4827	1	20	22	19.961	72	52	55.41	4	9006	NAINI TAL	8287	6	PG	7946	
7	15	20	27	35.7430	1	22	47	24.965	57	33	8.87	4	9008	SHIRAZ	12984	3	SJ	8170	
7	15	20	27	55.7431	1	22	59	41.806	55	9	17.52	4	9008	SHIRAZ	12984	5	SJ	8171	
7	15	22	33	28.0504	1	23	1	29.321	19	33	27.12	4	9008	SHIRAZ	12988	2	RD	8172	
7	15	22	33	44.0514	1	23	9	52.977	18	1	11.33	4	9008	SHIRAZ	12988	4	RD	8173	
7	16	0	0	26.0176	1	9	50	30.948	51	40	21.46	4	9009	CJRACAD	8378	5	BA	8501	
7	16	0	0	34.0178	1	9	52	57.906	54	7	56.05	4	9009	CJRACAD	8378	7	BA	8502	
7	16	0	19	51.0699	1	21	7	22.855	41	11	59.51	4	9004	SAN FERNAN	9220	3	GL	7496	
7	16	0	19	59.0697	1	21	16	14.261	40	19	56.40	4	9004	SAN FERNAN	9220	5	GL	7497	
7	16	2	24	20.1563	1	21	36	20.220	9	28	0.30	4	9004	SAN FERNAN	9228	3	GL	7498	
7	16	2	24	24.1563	1	21	38	54.154	9	11	1.15	4	9004	SAN FERNAN	9228	4	GL	7499	
7	16	6	14	45.8039	1	23	21	39.103	45	46	30.70	4	9010	JUPITER	10066	3	LD	7754	

DATE Y M D	TIME (A-I)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.
	H	M	S		H	M	S	D	M	S				
1963	7	18	0 55 26.1909	1	21 24	8.985		20 26	20.04		9004	SAN FERNAN	9286	3 SU 8047
	7	18	0 55 34.1908	1	21 30	31.830		19 39	34.43		9004	SAN FERNAN	9286	5 SU 8048
	7	18	1 20 13.1318	1	2 26	9.878		28 36	40.52		9002	OLIFANTS	13473	4 GL 8148
	7	18	1 20 45.1323	1	2 33	1.832		26 51	52.20		9002	OLIFANTS	13473	8 GL 8149
	7	18	2 59 36.7687	1	21 22	8.522		-11 41	57.56		9004	SAN FERNAN	9296	3 SU 8049
	7	18	2 59 52.7687	1	21 30	0.097		-12 37	15.21		9004	SAN FERNAN	9296	5 SU 8050
	7	18	6 50 2.6737	1	22 34	40.767		23 27	31.37		9010	JUPITER	10119	3 LD 7752
	7	18	6 50 6.6737	1	22 37	6.955		22 59	18.43		9010	JUPITER	10119	4 LD 7763
	7	18	6 56 55.2153	1	0 20	11.041		24 37	30.42		9009	CJRACAD	8435	3 BA 9098
	7	18	6 57 27.2161	1	0 31	43.553		21 11	29.60		9009	CJRACAD	8435	7 BA 9099
	7	18	9 1 25.8164	1	22 47	1.045		-17 12	50.09		9009	CJRACAD	8439	3 BA 9100
	7	18	9 1 57.8169	1	22 59	36.135		-19 45	42.57		9009	CJRACAD	8439	7 BA 9101
	7	18	9 9 0.0667	1	1 59	17.887		9 59	58.66		9007	AREQUIPA	9379	2 MY 8331
	7	18	9 9 16.0831	1	2 4	42.886		8 47	24.39		9007	AREQUIPA	9379	4 MY 8332
	7	18	9 14 47.3283	1	2 47	8.349		12 57	19.63		9011	VILLA DOLO	9863	2 MY 8780
	7	18	9 15 3.3280	1	2 52	11.420		12 3	52.12		9011	VILLA DOLO	9863	4 MY 8781
	7	18	20 18 25.6376	1	22 26	48.864		48 21	31.73		9008	SHIRAZ	13048	3 LT 7766
	7	18	20 18 41.6385	1	22 38	30.110		45 40	45.52		9008	SHIRAZ	13048	5 LT 7767
	7	18	22 6 9.9594	1	18 47	17.164		53 51	54.62		9004	SAN FERNAN	9307	2 SU 8051
	7	18	22 6 17.9594	1	19 7	26.642		53 0	34.75		9004	SAN FERNAN	9307	6 SU 8052
	7	19	0 10 39.2128	1	21 5	28.228		27 49	13.13		9004	SAN FERNAN	9316	3 SU 8053
	7	19	0 10 47.2128	1	21 13	5.294		26 51	45.11		9004	SAN FERNAN	9316	5 SU 8054
	7	19	0 26 32.8153	1	21 9	32.453		-21 31	5.69		9008	SHIRAZ	13062	2 LT 7768
	7	19	0 26 40.8154	1	21 12	24.913		-21 59	49.08		9008	SHIRAZ	13062	3 LT 7769
	7	19	2 14 22.3296	1	20 53	25.261		-5 51	8.02		9004	SAN FERNAN	9323	2 SU 8055
	7	19	2 14 26.3292	1	20 55	49.410		-6 6	54.56		9004	SAN FERNAN	9323	3 SU 8056
	7	19	5 59 18.7895	1	15 36	37.464		49 51	39.66		9010	JUPITER	10134	3 LD 573
	7	19	5 59 34.7894	1	15 51	5.344		51 3	38.95		9010	JUPITER	10134	7 LD 8618
	7	19	6 9 24.1679	1	0 15	6.731		5 32	18.59		9010	JUPITER	10136	3 LD 8619
	7	19	6 9 56.1699	1	0 22	34.284		3 18	54.17		9010	JUPITER	10136	7 LD 574
	7	19	6 12 57.9097	1	0 46	13.176		24 19	57.63		9009	CJRACAD	8457	4 BN 9102
	7	19	6 13 21.9099	1	0 52	26.892		21 52	47.74		9009	CJRACAD	8457	7 BN 9103
	7	19	9 51 13.6204	1	22 54	35.736		83 16	55.94		9012	MAUI	10353	2 PG 8691
	7	19	10 20 22.3634	1	22 13	12.984		14 5	50.79		9007	AREQUIPA	9397	2 MY 97
	7	19	10 20 38.3631	1	22 17	24.021		13 14	21.15		9007	AREQUIPA	9397	4 MY 8334
	7	19	21 21 24.5333	1	16 55	55.642		52 59	24.96		9004	SAN FERNAN	9331	3 SU 8057
	7	19	21 21 28.5332	1	17 9	27.304		53 6	36.48		9004	SAN FERNAN	9331	5 SU 8058
	7	20	1 10 35.6154	1	12 12	5.412		84 53	29.05		9010	JUPITER	10149	10 LD 8621
	7	20	1 10 39.6155	1	12 55	56.080		86 4	43.72		9010	JUPITER	10149	12 LD 8622
	7	20	3 35 17.8421	1	21 27	47.532		-29 19	39.73		9004	SAN FERNAN	9353	2 SU 8059
	7	20	3 35 25.8416	1	21 30	44.759		-29 41	50.07		9004	SAN FERNAN	9353	3 SU 8060
	7	20	3 59 18.5381	1	1 31	6.512		-14 56	25.73		9002	OLIFANTS	13508	4 GL 8150
	7	20	3 59 50.5380	1	1 45	28.396		-17 17	33.66		9002	OLIFANTS	13508	8 GL 8151
	7	20	7 30 8.2765	1	23 59	52.406		-25 9	51.15		9010	JUPITER	10168	3 LD 8623
	7	20	7 30 16.2766	1	0 2	21.271		-25 28	35.19		9010	JUPITER	10168	4 LD 575

DATE Y M D	TIME (A-L)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.			
	H	M	S		H	M	S	D	M	S							
1963	7	20	7 38 30.8983	1	1	49	21.625	21	2	52.12	4	9007	AREQUIPA	9408	2	MY	8335
	7	20	7 39 2.8982	1	1	57	36.451	18	45	4.12	4	9007	AREQUIPA	9408	6	MY	8336
	7	20	9 7 27.1179	1	0	34	42.200	75	9	24.59	4	9012	MAUI	10370	6	PG	8967
	7	20	9 7 31.1179	1	0	33	7.216	74	29	8.56	4	9012	MAUI	10370	7	PG	8968
	7	20	9 29 40.3304	1	21	30	52.348	-32	36	0.38	4	9010	JUPITER	10176	3	LD	8625
	7	20	9 29 56.3306	1	21	36	1.167	-33	28	47.13	4	9010	JUPITER	10176	5	LD	576
	7	20	9 42 55.9517	1	0	54	3.537	-12	33	3.13	4	9007	AREQUIPA	9413	6	MY	8337
	7	20	9 43 19.9514	1	1	4	19.544	-14	30	52.77	4	9007	AREQUIPA	9413	9	MY	8338
	7	20	13 22 59.1076	1	23	48	55.846	-31	6	17.04	4	9012	MAUI	10377	3	PG	8969
	7	20	13 23 7.1077	1	23	51	52.205	-31	28	15.50	4	9012	MAUI	10377	4	PG	8970
	7	20	16 44 25.8009	1	20	31	38.150	82	4	3.23	4	9008	SHIRAZ	13080	4	LT	7770
	7	20	16 44 41.8015	1	21	19	59.489	77	9	54.66	4	9008	SHIRAZ	13080	6	LT	7771
7	20	18 47 23.9468	1	19	51	30.720	79	54	15.99	4	9008	SHIRAZ	13083	3	SJ	7772	
7	20	18 47 47.9486	1	21	19	44.944	75	0	51.96	4	9008	SHIRAZ	13083	3	SJ	7773	
7	21	1 2 56.0140	1	0	2	55.780	44	19	47.20	4	9002	OLIFANTS	13519	3	GL	8152	
7	21	1 3 20.0135	1	0	10	44.718	43	1	19.47	4	9002	OLIFANTS	13519	6	GL	8153	
7	21	4 30 48.3865	1	13	39	34.383	63	2	54.39	4	9010	JUPITER	10182	6	LD	8627	
7	21	4 30 52.3865	1	13	43	43.152	63	42	11.67	4	9010	JUPITER	10182	7	LD	8628	
7	21	6 54 2.1758	1	1	51	41.937	21	44	50.87	4	9007	AREQUIPA	9427	6	MY	8548	
7	21	6 54 10.1758	1	1	53	25.890	21	12	5.68	4	9007	AREQUIPA	9427	7	MY	8549	
7	21	14 40 9.6853	1	22	1	6.585	-41	48	3.49	4	9012	MAUI	10412	3	PG	8971	
7	21	14 40 25.6866	1	22	6	24.580	-42	39	50.65	4	9012	MAUI	10412	4	PG	8972	
7	21	18 3 6.4816	1	21	57	33.025	79	54	35.20	4	9008	SHIRAZ	13106	4	SJ	7774	
7	21	18 3 10.4817	1	22	4	51.525	78	47	29.04	4	9008	SHIRAZ	13106	5	SJ	7775	
7	21	23 56 35.9479	1	16	1	56.727	25	6	22.71	4	9004	SAN FERNAN	9385	2	SU	8061	
7	21	23 56 39.9483	1	16	6	34.419	25	8	31.60	4	9004	SAN FERNAN	9385	3	SU	8062	
7	22	3 41 44.0596	1	13	35	0.911	79	4	19.60	4	9001	ORGAN PASS	11141	2	PK	8044	
7	22	8 15 3.4644	1	2	6	56.993	-9	25	40.49	4	9007	AREQUIPA	9448	2	MY	8550	
7	22	8 15 11.4642	1	2	9	43.978	-9	56	46.92	4	9007	AREQUIPA	9448	3	MY	8551	
7	22	8 18 22.9910	1	2	6	38.165	6	18	37.89	4	9011	VILLA DOLO	9904	2	MY	8782	
7	22	8 18 38.9906	1	2	12	0.056	5	22	31.99	4	9011	VILLA DOLO	9904	4	MY	8783	
7	22	10 14 51.5713	1	23	4	14.700	-25	0	22.36	4	9007	AREQUIPA	9453	2	MY	8552	
7	22	10 15 7.5709	1	23	9	45.618	-26	21	51.09	4	9007	AREQUIPA	9453	4	MY	8553	
7	22	10 17 18.5112	1	23	40	24.743	-2	28	24.99	4	9011	VILLA DOLO	9912	7	MY	8784	
7	22	10 17 34.5093	1	23	45	17.584	-3	25	5.60	4	9011	VILLA DOLO	9912	9	MY	8785	
7	22	17 22 34.8662	1	13	47	1.792	61	42	10.71	4	9006	NAINI TAL	8328	3	PG	7947	
7	22	17 22 38.8666	1	13	52	51.020	62	25	28.17	4	9006	NAINI TAL	8328	4	PG	7948	
7	23	1 35 52.0360	1	22	51	20.293	33	47	45.35	4	9002	OLIFANTS	13546	5	GL	8154	
7	23	1 36 0.0363	1	22	54	13.557	33	22	32.49	4	9002	OLIFANTS	13546	6	GL	8155	
7	23	7 32 30.9913	1	2	50	23.737	-12	24	14.48	4	9007	AREQUIPA	9467	8	MY	8554	
7	23	7 32 38.9908	1	2	52	33.374	-12	46	39.65	4	9007	AREQUIPA	9467	9	MY	8555	
7	23	7 34 46.6073	1	2	29	30.330	4	33	22.26	4	9011	VILLA DOLO	9927	2	MY	8786	
7	23	7 35 2.6066	1	2	34	11.055	3	42	45.57	4	9011	VILLA DOLO	9927	4	MY	99	
7	23	9 32 45.5418	1	0	41	18.741	-36	44	35.96	4	9007	AREQUIPA	9474	2	MY	8556	
7	23	9 33 9.5411	1	0	53	51.366	-38	24	6.13	4	9007	AREQUIPA	9474	5	MY	8557	

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 23	1	1 50 18.942	-18 25 38.46	4	9011 VILLA DOLO	9932	3 MY	8787
7 23	9 37 21.6400	1	1 58 1.418	-19 22 38.19	4	9011 VILLA DOLO	9932	5 MY	8788
7 23	14 36 22.7271	1	5 28 55.988	85 54 23.92	4	9006 NAINI TAL	8343	3 PG	7949
7 23	14 36 26.7274	1	4 9 12.119	86 12 35.83	4	9006 NAINI TAL	8343	4 PG	7950
7 23	16 38 1.7308	1	12 25 56.360	67 21 36.67	4	9006 NAINI TAL	8352	6 PG	7951
7 23	16 38 3.7307	1	12 28 23.912	67 50 44.93	4	9006 NAINI TAL	8352	7 PG	7952
7 24	0 54 35.6497	1	0 24 45.873	23 36 8.95	4	9002 OLIFANTS	13566	6 GL	8156
7 24	0 54 59.6493	1	0 33 1.032	21 53 29.52	4	9002 OLIFANTS	13566	9 GL	8157
7 24	6 50 27.0033	1	2 32 31.424	4 51 40.37	4	9011 VILLA DOLO	9947	2 MY	8789
7 24	6 50 43.0020	1	2 36 34.503	4 5 6.40	4	9011 VILLA DOLO	9947	4 MY	8790
7 24	8 43 47.1607	1	22 47 26.551	-57 32 9.66	4	9009 CURACAO	8515	2 3N	9104
7 24	8 44 27.1631	1	23 4 49.786	-59 17 49.21	4	9009 CURACAO	8815	7 8N	9105
7 24	17 51 45.6113	1	21 3 7.498	80 4 47.67	4	9008 SHIRAZ	13166	3 LT	7776
7 24	17 51 53.6103	1	21 25 41.856	77 35 38.91	4	9008 SHIRAZ	13166	4 LT	7777
7 25	0 13 9.2769	1	1 37 19.030	10 56 26.26	4	9002 OLIFANTS	13581	6 GL	8158
7 25	0 13 17.2771	1	1 39 30.644	10 25 19.93	4	9002 OLIFANTS	13581	7 GL	8159
7 25	1 33 3.9247	1	7 27 52.989	76 16 57.24	4	9010 JUPITER	10199	6 LD	8629
7 25	1 33 27.9301	1	5 41 51.047	80 31 14.73	4	9010 JUPITER	10199	9 LD	577
7 25	2 10 56.4019	1	22 39 30.797	7 17 24.21	4	9002 OLIFANTS	13586	3 GL	8160
7 25	2 11 20.4018	1	22 48 10.398	5 35 57.75	4	9002 OLIFANTS	13586	6 GL	8161
7 25	3 34 32.5048	1	12 20 4.402	57 41 22.35	4	9010 JUPITER	10205	3 LD	8631
7 25	3 34 44.5058	1	12 29 21.216	59 51 13.40	4	9010 JUPITER	10205	6 LD	8632
7 25	6 3 8.2495	1	1 50 17.834	13 38 43.90	4	9011 VILLA DOLO	9963	1 MY	8791
7 25	6 3 16.2498	1	1 52 9.672	13 12 58.90	4	9011 VILLA DOLO	9963	2 MY	8792
7 25	8 7 10.1687	1	2 9 25.024	-10 7 39.60	4	9011 VILLA DOLO	9964	2 MY	8793
7 25	8 7 26.1685	1	2 15 51.677	-10 58 0.17	4	9011 VILLA DOLO	9964	4 MY	578
7 25	10 7 33.0283	1	23 59 50.943	-24 59 57.36	4	9011 VILLA DOLO	9977	2 MY	9311
7 25	10 7 49.0281	1	C 6 32.310	-26 7 17.52	4	9011 VILLA DOLO	9977	4 MY	9312
7 25	17 41 59.9968	1	0 42 5.083	13 33 5.22	4	9003 WOOMERA	15069	3 YK	8351
7 25	17 42 19.9965	1	0 49 8.506	12 12 5.04	4	9003 WOOMERA	15069	8 YK	8352
7 25	22 59 9.4870	1	14 8 56.163	16 30 49.39	4	9004 SAN FERNAN	9479	5 SU	8245
7 25	22 59 13.4872	1	14 12 30.776	16 31 10.28	4	9004 SAN FERNAN	9479	6 SU	8246
7 26	1 28 10.6384	1	23 54 43.875	1 0 8.40	4	9002 OLIFANTS	13605	4 GL	8162
7 26	1 28 34.6384	1	0 5 3.873	-0 55 6.52	4	9002 OLIFANTS	13605	7 GL	8163
7 26	9 21 53.5011	1	1 6 18.350	-56 36 37.33	4	9007 AREQUIPA	9508	2 MY	8558
7 26	9 22 49.4991	1	1 47 13.933	-58 31 4.93	4	9007 AREQUIPA	9508	9 MY	8559
7 26	17 0 15.5961	1	1 52 9.309	3 10 52.68	4	9003 WOOMERA	15086	4 YK	8353
7 26	17 0 23.3929	1	1 54 26.430	2 44 46.17	4	9003 WOOMERA	15086	6 YK	8354
7 26	18 22 28.3476	1	12 47 57.367	52 18 52.46	4	9008 SHIRAZ	13216	3 LT	7778
7 26	18 22 52.3489	1	13 20 3.883	56 38 20.99	4	9008 SHIRAZ	13216	6 LT	7779
7 26	18 56 26.1679	1	22 33 56.299	4 29 24.27	4	9003 WOOMERA	15089	6 YK	8355
7 26	18 56 38.1678	1	22 38 8.789	3 42 38.12	4	9003 WOOMERA	15089	9 YK	8356
7 27	0 46 3.4955	1	1 28 54.425	-8 18 51.82	4	9002 OLIFANTS	13628	3 GL	8164
7 27	0 46 35.4949	1	1 41 12.512	-10 17 17.62	4	9002 OLIFANTS	13628	7 GL	8155
7 27	2 42 32.0521	1	21 38 3.464	-8 15 36.55	4	9002 OLIFANTS	13634	3 GL	8166

DATE		TIME (A-L)		RMS	R.A. (1950.0)			DECL. (1950.0)			STATION		FRAME NO.	MS	OBS. NO.	
Y	M D	H	M S	MS	H	M	S	D	M	S						
1963	7 27	2 43	4.0520	1	21 47	13.687		-10 32	32.12	4	9002	OLIFANTS	13634	7	GL	8167
	7 27	7 58	5.9770	1	7 57	5.377		85 53	38.77	4	9012	MAUI	10499	5	PG	8973
	7 27	7 58	9.9772	1	7 17	28.585		86 30	20.86	4	9012	MAUI	10499	6	PG	8974
	7 27	8 38	9.9761	1	2 46	11.081		-53 48	17.23	4	9007	AREQUIPA	9526	2	MY	8560
	7 27	8 38	33.9756	1	3 0	31.823		-53 51	41.77	4	9007	AREQUIPA	9526	5	MY	8561
7 27	8 41	13.2221	1	2 49	40.096		-32 27	41.85	4	9011	VILLA DOLLO	10014	2	MY	9313	
7 27	8 41	37.2217	1	3 2	21.058		-32 59	49.50	4	9011	VILLA DOLLO	10014	5	MY	9314	
7 27	17 38	18.5860	1	12 45	15.848		71 57	10.85	4	9008	SHIRAZ	13235	3	LT	7780	
7 27	17 38	22.5860	1	12 57	47.118		73 2	9.56	4	9008	SHIRAZ	13235	4	LT	7781	
7 27	18 14	11.6505	1	0 3	28.486		- 4 27	50.42	4	9003	WOOMERA	15109	3	YK	8357	
7 27	18 14	35.6500	1	0 14	15.973		- 6 12	37.50	4	9003	WOOMERA	15109	9	YK	8358	
7 28	7 53	18.0655	1	3 13	54.998		-47 8	58.53	4	9007	AREQUIPA	9548	2	MY	8562	
7 28	7 53	34.0651	1	3 21	2.800		-47 6	54.43	4	9007	AREQUIPA	9548	4	MY	8563	
7 28	7 56	49.2467	1	3 22	23.247		-28 34	23.69	4	9011	VILLA DOLLO	10035	3	MY	9317	
7 28	7 57	5.2464	1	3 29	10.706		-28 47	29.83	4	9011	VILLA DOLLO	10035	5	MY	9318	
7 28	17 31	46.5303	1	1 35	50.084		-11 47	59.24	4	9003	WOOMERA	15122	3	3N	8635	
7 28	17 32	10.5299	1	1 45	39.676		-13 3	36.07	4	9003	WOOMERA	15122	10	3N	8636	
7 29	1 17	52.8233	1	0 59	59.837		-30 10	45.57	4	9002	OLIFANTS	13657	3	YK	8339	
7 29	1 18	24.8228	1	1 17	41.252		-31 46	54.30	4	9002	OLIFANTS	13657	7	YK	8340	
7 29	2 13	54.0175	1	21 3	44.657		-19 10	8.48	4	9002	OLIFANTS	13663	2	YK	8341	
7 29	3 14	58.0171	1	21 18	5.821		-23 25	48.06	4	9002	OLIFANTS	13663	10	YK	582	
7 29	7 13	17.0303	1	3 56	35.642		-25 10	55.37	4	9011	VILLA DOLLO	10055	2	MY	9315	
7 29	7 13	33.0295	1	4 1	38.418		-25 17	2.88	4	9011	VILLA DOLLO	10055	4	MY	9316	
7 29	9 9	41.8690	1	2 9	9.925		-67 52	49.91	4	9007	AREQUIPA	9576	2	MY	8564	
7 29	9 10	5.8685	1	2 32	10.892		-67 51	43.27	4	9007	AREQUIPA	9576	5	MY	8565	
7 29	9 12	12.1895	1	2 12	3.503		-45 54	35.55	4	9011	VILLA DOLLO	10066	2	MY	116	
7 29	9 12	28.1893	1	2 23	24.203		-46 11	49.72	4	9011	VILLA DOLLO	10066	4	MY	117	
7 29	12 19	43.5357	1	13 53	16.500		12 28	53.76	4	9005	TOKYO	8700	12	PG	8980	
7 29	12 19	45.5357	1	13 55	36.939		12 23	35.67	4	9005	TOKYO	8700	13	PG	8981	
7 29	16 49	6.3409	1	2 35	4.447		-14 42	22.49	4	9003	WOOMERA	15125	3	3N	8637	
7 29	16 50	2.3395	1	2 52	20.181		-16 24	14.58	4	9003	WOOMERA	15125	10	BN	8638	
7 29	18 45	13.7731	1	22 59	37.424		-20 51	13.54	4	9003	WOOMERA	15129	2	SJ	8639	
7 29	18 45	49.7723	1	23 17	13.160		-23 38	49.92	4	9003	WOOMERA	15129	11	SJ	8640	
7 30	0 34	40.3457	1	2 22	10.629		-29 25	13.70	4	9002	OLIFANTS	13681	2	YK	8343	
7 30	0 35	20.3461	1	2 38	48.839		-30 18	16.36	4	9002	OLIFANTS	13681	7	YK	8344	
7 30	1 54	5.7672	1	21 45	39.333		71 13	52.99	4	9010	JUPITER	10280	10	LD	9197	
7 30	1 54	7.7672	1	21 46	41.740		70 27	43.07	4	9010	JUPITER	10280	11	LD	8634	
7 30	2 30	54.1960	1	21 42	29.191		-30 42	2.75	4	9002	OLIFANTS	13687	5	YK	8345	
7 30	2 31	26.1965	1	21 54	21.749		-33 23	28.64	4	9002	OLIFANTS	13687	9	YK	8346	
7 30	8 25	15.9817	1	3 38	45.524		-61 34	17.10	4	9007	AREQUIPA	9591	3	MY	8566	
7 30	8 25	31.9816	1	3 48	33.523		-61 8	39.99	4	9007	AREQUIPA	9591	5	MY	8567	
7 30	10 20	28.1542	1	21 6	15.902		-48 17	54.50	4	9007	AREQUIPA	9598	4	VD	7614	
7 30	18 2	17.6174	1	0 49	43.641		-28 22	41.08	4	9003	WOOMERA	15149	2	3N	8641	
7 30	18 2	41.6170	1	1 3	34.936		-29 33	5.18	4	9003	WOOMERA	15149	8	3N	8642	
7 30	21 16	52.7176	1	13 53	21.197		12 30	4.91	4	9004	SAN FERNAN	9594	8	SU	8247	

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 7 31	1 8 59.5402	1	22 36 53.594	64 8 48.47	4	9010 JUPITER	10304	4 LT	7782
7 31	1 9 5.5402	1	22 33 21.743	62 11 6.20	4	9010 JUPITER	10304	7 LT	7783
7 31	1 48 24.3387	1	23 42 22.512	-46 12 47.74	4	9002 OLIFANTS	13700	3 YK	8347
7 31	1 49 4.3401	1	0 10 51.986	-48 30 34.66	4	9002 OLIFANTS	13700	8 YK	8348
7 31	9 41 43.3386	1	2 19 6.114	-75 27 9.81	4	9007 AREQUIPA	9614	5 VD	7615
7 31	9 42 34.2226	1	3 25 53.413	-74 41 54.92	4	9007 AREQUIPA	9614	10 VD	7616
7 31	17 19 26.3141	1	2 30 56.610	-28 32 52.71	4	9003 WOOMERA	15165	3 BN	8643
7 31	17 19 50.3137	1	2 41 14.372	-28 54 46.83	4	9003 WOOMERA	15165	8 BN	8644
7 31	19 16 56.6219	1	22 36 50.120	-37 0 36.82	4	9003 WOOMERA	15168	3 BN	9198
7 31	19 17 8.6219	1	22 42 54.035	-37 55 21.61	4	9003 WOOMERA	15168	6 BN	8645
8 1	1 4 31.4768	1	1 40 25.774	-46 41 6.59	4	9002 OLIFANTS	13720	6 BA	287
8 1	2 1 12.2435	1	21 2 27.177	-35 17 26.17	4	9002 OLIFANTS	13728	5 BA	288
8 1	2 1 28.2435	1	21 6 47.567	-36 27 48.25	4	9002 OLIFANTS	13728	7 BA	289
8 1	6 56 55.1448	1	3 34 30.705	-31 20 0.73	4	9011 VILLA DOLO	10098	5 VD	170
8 1	8 56 48.8376	1	4 19 3.852	-69 34 57.27	4	9007 AREQUIPA	9629	6 SU	1445
8 1	8 56 56.8377	1	4 25 1.146	-69 13 30.84	4	9007 AREQUIPA	9629	7 SU	1446
8 1	8 59 1.4136	1	3 36 31.338	-50 31 37.05	4	9011 VILLA DOLO	10100	8 VD	171
8 1	8 59 9.4135	1	3 41 53.798	-50 17 39.68	4	9011 VILLA DOLO	10100	9 VD	172
8 1	18 31 46.3719	1	23 25 17.748	-40 29 46.10	4	9003 WOOMERA	15178	3 VD	9725
8 1	18 32 14.3709	1	23 44 23.487	-42 14 35.03	4	9003 WOOMERA	15178	10 VD	2497
8 1	21 46 51.6190	1	13 36 13.441	-5 32 0.29	4	9004 SAN FERNAN	9646	3 HC	164
8 1	21 47 3.6185	1	13 46 54.837	-6 51 49.30	4	9004 SAN FERNAN	9646	6 HC	165
8 2	0 20 59.9505	1	3 7 35.078	-39 59 12.85	4	9002 OLIFANTS	13738	6 BA	290
8 2	0 21 11.9505	1	3 12 30.692	-39 52 12.47	4	9002 OLIFANTS	13738	9 BA	291
8 2	2 17 34.9490	1	21 56 27.680	-49 19 13.47	4	9002 OLIFANTS	13741	4 BA	292
8 2	2 17 38.9486	1	21 58 35.122	-49 38 51.65	4	9002 OLIFANTS	13741	5 BA	293
8 2	10 10 4.2784	1	23 4 20.325	-45 42 1.30	4	9011 VILLA DOLO	10114	5 VD	173
8 2	10 10 28.2786	1	23 16 30.456	-47 3 36.53	4	9011 VILLA DOLO	10114	8 VD	174
8 2	10 12 21.2653	1	1 32 17.413	-77 46 14.67	4	9007 AREQUIPA	9652	8 SU	1447
8 2	10 12 29.2652	1	1 45 8.311	-77 50 40.30	4	9007 AREQUIPA	9652	9 SU	1448
8 2	17 48 4.3663	1	1 36 4.080	-42 42 57.22	4	9003 WOOMERA	15199	7 VD	9727
8 2	17 48 20.3659	1	1 46 49.234	-42 50 51.72	4	9003 WOOMERA	15199	11 VD	9728
8 2	19 44 46.3754	1	21 15 31.287	-32 29 41.46	4	9003 WOOMERA	15211	7 VD	9729
8 3	1 33 54.2058	1	0 25 32.497	-59 41 22.35	4	9002 OLIFANTS	13751	4 BA	294
8 3	1 34 18.2057	1	0 48 49.299	-60 11 3.91	4	9002 OLIFANTS	13751	7 BA	295
8 3	6 44 48.1288	1	15 7 6.227	85 16 9.55	4	9012 MAUI	10631	4 LT	2134
8 3	6 44 56.1296	1	17 18 27.843	84 53 58.74	4	9012 MAUI	10631	5 LT	2135
8 3	9 25 58.0470	1	2 59 41.399	-77 6 34.01	4	9007 AREQUIPA	9659	3 SU	1449
8 3	9 29 19.3229	1	3 37 39.246	-53 20 57.80	4	9011 VILLA DOLO	10119	7 VD	175
8 3	9 29 35.3226	1	3 49 17.368	-52 41 3.49	4	9011 VILLA DOLO	10119	11 VD	176
8 3	16 24 59.4106	1	15 25 7.306	51 42 0.58	4	9008 SHIRAZ	13320	2 BA	300
8 3	16 25 7.4145	1	16 1 5.502	50 9 20.19	4	9008 SHIRAZ	13320	3 BA	301
8 4	0 49 43.7297	1	2 46 39.036	-54 9 18.02	4	9002 OLIFANTS	13769	6 BA	296
8 4	0 49 51.7297	1	2 51 45.204	-53 54 25.30	4	9002 OLIFANTS	13769	8 BA	297
8 4	2 9 5.7947	1	14 24 4.613	15 35 42.23	4	9010 JUPITER	10411	8 VD	9730

DATE Y M D	TIME (A-1)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			RMS S	STATION	FRAME NO.	MS	OBS. NO.				
	H	M	S		H	M	S	D	M	S									
1963	8	4	2	9	13.7967	1	14	39	14.463	14	6	43.40	4	9010	JUPITER	10411	10	VD	9731
	8	5	9	56	29.5311	1	3	27	26.133	-76	12	51.71	4	9007	AREQUIPA	9683	5	DM	2099
	8	5	9	56	37.5308	1	3	37	45.071	-75	54	22.29	4	9007	AREQUIPA	9683	6	DM	2100
	8	5	9	59	11.8756	1	3	33	1.273	-49	34	7.76	4	9011	VILLA DOLO	10147	6	VD	177
	8	5	9	59	19.8754	1	3	38	39.805	-49	11	18.17	4	9011	VILLA DOLO	10147	7	VD	178
	8	6	0	40	26.5529	1	19	51	7.603	85	9	21.40	4	9009	CJRACAD	8692	4	RD	9935
	8	6	0	40	42.5557	1	20	46	43.260	81	3	45.94	4	9009	CJRACAD	8692	6	RD	2462
	8	6	1	18	35.2766	1	2	24	54.139	-64	8	57.91	4	9002	OLIFANTS	13812	12	BA	298
	8	6	1	18	43.2721	1	2	32	21.570	-63	49	14.73	4	9002	OLIFANTS	13812	14	BA	299
	8	6	18	44	29.7115	1	22	43	45.717	-54	42	41.25	4	9003	WOOMERA	15241	5	HC	147
	8	6	18	44	49.7109	1	23	0	53.713	-55	46	47.26	4	9003	WOOMERA	15241	10	HC	148
	8	7	0	33	57.8652	1	3	58	45.010	-52	7	15.12	4	9002	OLIFANTS	13827	7	MY	842
	8	7	8	26	30.5382	1	4	37	13.458	-42	19	33.25	4	9011	VILLA DOLO	10176	5	VD	179
	8	7	8	26	38.5378	1	4	40	27.420	-41	49	2.69	4	9011	VILLA DOLO	10176	6	VD	180
	8	7	18	0	26.0077	1	2	2	18.830	-56	38	59.65	4	9003	WOOMERA	15254	5	HC	149
	8	7	18	0	38.0076	1	2	12	41.648	-56	9	50.67	4	9003	WOOMERA	15254	8	HC	150
	8	8	1	46	20.1873	1	0	48	48.972	-69	12	42.73	4	9002	OLIFANTS	13848	8	MY	1569
	8	8	1	46	28.1873	1	0	59	30.992	-69	7	56.70	4	9002	OLIFANTS	13848	9	MY	1570
	8	8	7	39	1.6210	1	4	26	10.213	-40	59	34.87	4	9011	VILLA DOLO	10191	4	VD	181
	8	8	7	39	17.6207	1	4	31	47.167	-40	2	16.39	4	9011	VILLA DOLO	10191	6	VD	182
	8	8	9	41	15.9268	1	3	35	47.227	-41	12	27.11	4	9011	VILLA DOLO	10199	4	VD	183
	8	8	9	41	19.9266	1	3	38	9.067	-40	57	35.64	4	9011	VILLA DOLO	10199	5	VD	184
	8	8	17	15	35.5987	1	3	36	3.520	-45	31	30.34	4	9003	WOOMERA	15272	4	HC	151
	8	8	17	15	47.5984	1	3	41	8.068	-44	51	6.16	4	9003	WOOMERA	15272	7	HC	152
	8	8	19	11	38.6861	1	21	39	42.366	-48	26	25.79	4	9003	WOOMERA	15277	8	HC	153
	8	8	19	11	46.6861	1	21	44	23.548	-48	55	39.34	4	9003	WOOMERA	15277	10	HC	1571
	8	9	0	23	6.8995	1	14	51	22.214	71	41	11.90	4	9009	CJRACAD	8713	4	RD	9936
	8	9	0	23	14.9005	1	15	29	0.085	71	29	15.14	4	9009	CJRACAD	8713	6	RD	9937
	8	9	1	0	35.1644	1	3	3	34.327	-63	44	25.03	4	9002	OLIFANTS	13867	3	MY	845
	8	9	1	0	43.1630	1	3	9	45.160	-63	11	57.80	4	9002	OLIFANTS	13867	4	MY	846
	8	9	6	10	56.9493	1	13	21	3.255	18	32	29.68	4	9012	MAUI	10729	8	SJ	2136
	8	9	6	11	1.0325	1	13	28	40.518	17	37	44.01	4	9012	MAUI	10729	9	SJ	2137
	8	9	8	51	51.4648	1	4	51	50.046	-67	52	48.78	4	9007	AREQUIPA	9712	5	DM	2101
	8	9	8	51	59.4647	1	4	55	55.326	-67	17	41.42	4	9007	AREQUIPA	9712	6	DM	2102
	8	9	18	26	33.4489	1	23	26	35.563	-58	51	48.39	4	9003	WOOMERA	15288	2	HC	154
	8	9	18	26	49.4482	1	23	43	53.533	-59	10	26.88	4	9003	WOOMERA	15288	6	HC	155
	8	9	20	39	54.1573	1	5	14	6.221	-14	58	18.17	4	9003	WOOMERA	15296	2	HC	156
	8	9	20	40	18.1569	1	5	21	58.881	-13	22	18.68	4	9003	WOOMERA	15296	8	HC	157
	8	10	17	41	51.5198	1	2	35	41.301	-54	29	16.08	4	9003	WOOMERA	15306	3	HC	158
	8	10	17	42	23.5191	1	2	57	45.884	-52	15	51.44	4	9003	WOOMERA	15306	11	HC	159
	8	10	19	38	21.4799	1	21	17	8.710	-40	7	46.97	4	9003	WOOMERA	15312	5	HC	160
	8	10	19	38	33.4798	1	21	22	23.530	-40	39	44.51	4	9003	WOOMERA	15312	8	HC	161
	8	11	1	27	26.0966	1	1	24	37.526	-68	25	4.38	4	9002	OLIFANTS	13893	4	MY	847
	8	11	1	27	42.0969	1	1	44	35.361	-67	42	11.04	4	9002	OLIFANTS	13893	6	MY	848
	8	11	7	17	53.6154	1	5	12	57.310	-56	36	19.82	4	9007	AREQUIPA	9730	8	DM	2103

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S		DECL. (1950.0) D M S		STATION	FRAME NO.	MS	OBS. NO.
			H	M	S	D				
1963	8 11	7 18	1.6155	1	5 14	24.760	9007 AREQUIPA	9730	9 DM	2104
	8 11	9 22	25.6346	1	3 34	38.401	9011 VILLA DOLO	10219	3 LD	1730
	8 11	9 22	57.6334	1	3 49	40.327	9011 VILLA DOLO	10219	7 LD	1731
	8 11	9 23	16.7049	1	5 31	22.700	9007 AREQUIPA	9738	5 DM	2105
	8 11	9 23	24.7053	1	5 33	46.301	9007 AREQUIPA	9738	6 DM	2106
	8 11	16 57	11.9821	1	3 58	26.132	9003 WOOMERA	15325	3 HC	162
	8 11	16 57	28.1482	1	4 3	11.235	9003 WOOMERA	15325	5 HC	163
	8 11	18 53	29.5425	1	22 32	25.491	9003 WOOMERA	15329	7 PL	742
	8 11	18 53	37.5423	1	22 39	1.879	9003 WOOMERA	15329	9 PL	743
	8 12	0 42	7.3982	1	3 46	58.228	9002 OLIFANTS	13910	6 MY	849
	8 12	0 42	23.3986	1	3 54	13.822	9002 OLIFANTS	13910	8 MY	850
	8 12	2 38	53.2058	1	21 25	6.569	9002 OLIFANTS	13914	6 MY	851
1963	8 12	2 39	1.2057	1	21 29	34.661	9002 OLIFANTS	13914	7 MY	852
	8 12	5 52	55.2031	1	13 37	59.625	9012 MAUI	10762	4 SJ	2138
	8 12	5 52	59.2029	1	13 43	35.252	9012 MAUI	10762	5 SJ	2139
	8 12	8 33	33.6704	1	5 3	34.277	9007 AREQUIPA	9753	3 DM	2107
	8 12	8 33	41.6704	1	5 6	5.089	9007 AREQUIPA	9753	4 DM	2108
	8 12	8 34	33.0529	1	3 42	43.764	9011 VILLA DOLO	10228	3 LD	1732
	8 12	8 35	5.0521	1	3 56	26.013	9011 VILLA DOLO	10228	7 LD	6257
	8 12	18 8	35.2544	1	1 27	45.844	9003 WOOMERA	15342	5 PL	1567
	8 12	18 8	43.2540	1	1 35	16.318	9003 WOOMERA	15342	7 PL	744
	8 12	23 57	14.2993	1	4 31	5.479	9002 OLIFANTS	13936	4 MY	853
	8 12	23 57	30.2993	1	4 34	9.505	9002 OLIFANTS	13936	6 MY	854
	8 13	1 53	8.9223	1	22 39	25.978	9002 OLIFANTS	13938	2 MY	855
1963	8 13	1 53	40.9219	1	23 14	36.661	9002 OLIFANTS	13938	6 MY	856
	8 13	7 46	4.0184	1	5 11	25.968	9007 AREQUIPA	9766	3 DM	2109
	8 13	7 48	37.3122	1	4 27	28.252	9011 VILLA DOLO	10243	3 LD	1734
	8 13	7 48	45.3119	1	4 29	41.389	9011 VILLA DOLO	10243	4 LD	1735
	8 13	9 49	34.6718	1	2 46	6.033	9011 VILLA DOLO	10250	3 LD	1736
	8 13	9 50	6.6715	1	3 0	38.380	9011 VILLA DOLO	10250	7 LD	1737
	8 13	9 50	36.3984	1	4 33	59.410	9007 AREQUIPA	9774	5 DM	2110
	8 13	9 50	44.3982	1	4 37	19.094	9007 AREQUIPA	9774	6 DM	2111
	8 13	19 19	17.2671	1	21 46	36.368	9003 WOOMERA	15353	7 LD	2498
	8 13	19 19	21.2671	1	21 48	48.402	9003 WOOMERA	15353	8 LD	1342
	8 14	0 33	7.3424	1	13 27	50.444	9009 CJRACAO	8750	7 LD	9938
	8 14	0 33	56.4312	1	14 18	18.510	9009 CJRACAO	8750	13 LD	9939
1963	8 14	1 8	36.8419	1	2 47	3.031	9002 OLIFANTS	13959	4 MY	857
	8 14	1 8	44.8416	1	2 52	54.887	9002 OLIFANTS	13959	5 MY	858
	8 14	7 1	4.6959	1	4 27	43.132	9011 VILLA DOLO	10257	5 LD	1738
	8 14	7 3	33.2412	1	4 56	29.988	9011 VILLA DOLO	10257	10 LD	6258
	8 14	9 2	16.7929	1	3 16	15.323	9011 VILLA DOLO	10264	3 LD	2118
	8 14	9 2	19.8736	1	4 46	48.826	9007 AREQUIPA	9786	9 DM	2112
	8 14	9 2	35.8728	1	4 52	6.337	9007 AREQUIPA	9786	11 DM	2113
	8 14	9 2	40.7921	1	3 26	20.785	9011 VILLA DOLO	10264	6 LD	2119
	8 14	18 34	36.5417	1	23 56	40.046	9003 WOOMERA	15361	4 LD	1343

DATE			TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION		FRAME NO.	MS	OBS. NO.			
Y	M	D	H	M	S	MS	H	M	S	D	M	S	RMS							
1963	8	14	18	35	0.5411	1	0	18	6.804	-46	53	16.66	4	9003	WOODMERA	15361	10	LD	1344	
	8	14	20	36	43.9814	1	23	40	20.991	-20	9	14.55	4	9003	WOODMERA	15366	3	LD	1345	
	8	14	20	37	7.9810	1	23	50	41.886	-19	25	43.52	4	9003	WOODMERA	15366	9	LD	1346	
	8	14	23	45	27.1693	1	13	1	53.713	-18	8	16.97	4	9009	CURACAO	8759	4	RD	9940	
8	14	23	45	59.1652	1	13	45	58.927	-30	21	43.42	4	9009	CURACAO	8759	8	RD	9941		
8	15		0	23	5.9056	1	4	7	35.155	-44	36	55.21	4	9002	OLIFANTS	13980	1	MY	859	
8	15		0	23	25.7223	1	4	12	54.739	-42	55	44.80	4	9002	OLIFANTS	13980	3	MY	860	
8	15		2	19	16.2081	1	22	1	10.555	-49	37	25.12	4	9002	OLIFANTS	13986	3	MY	1356	
8	15		2	19	32.2075	1	22	12	19.294	-49	59	51.32	4	9002	OLIFANTS	13986	5	MY	1357	
8	15		8	13	36.5675	1	4	47	4.899	-47	54	27.37	4	9007	AREQUIPA	9802	3	DM	2114	
8	15		8	13	44.6004	1	4	49	15.288	-47	12	46.15	4	9007	AREQUIPA	9802	4	DM	2115	
8	15		8	15	40.5808	1	3	58	18.547	-12	58	5.64	4	9011	VILLA DOLO	10282	3	LD	6259	
8	15		8	16	20.5801	1	4	10	38.758	-10	23	25.71	4	9011	VILLA DOLO	10282	8	LD	6250	
8	15		17	49	7.3540	1	2	19	16.174	-42	29	0.84	4	9003	WOODMERA	15375	3	LD	2499	
8	15		17	49	35.3533	1	2	36	17.709	-40	0	22.75	4	9003	WOODMERA	15375	10	LD	1347	
8	15		19	45	19.3978	1	21	47	8.818	-28	3	6.72	4	9003	WOODMERA	15380	7	LD	2500	
8	15		19	45	31.3976	1	21	52	18.485	-28	4	19.60	4	9003	WOODMERA	15380	10	LD	1348	
8	16		1	34	6.2054	1	0	37	1.707	-56	25	32.53	4	9002	OLIFANTS	13996	8	MY	1358	
8	16		1	34	10.2087	1	0	41	4.309	-56	14	9.54	4	9002	OLIFANTS	13996	9	MY	1359	
8	16		3	46	31.2122	1	4	5	28.377	12	21	40.85	4	9002	OLIFANTS	14004	3	MY	1360	
8	16		3	46	35.2124	1	4	6	49.240	12	35	57.74	4	9002	OLIFANTS	14004	4	MY	1361	
8	16		7	26	50.0598	1	5	5	10.823	-40	4	18.39	4	9007	AREQUIPA	9819	7	DM	2116	
8	16		7	26	58.0763	1	5	6	26.396	-39	27	56.06	4	9007	AREQUIPA	9819	8	DM	2117	
8	16		9	29	34.1785	1	3	54	54.223	-31	15	47.23	4	9007	AREQUIPA	9826	4	DM	3440	
8	16		9	29	42.1781	1	3	58	11.666	-30	32	36.87	4	9007	AREQUIPA	9826	5	DM	3441	
8	16		9	34	30.0484	1	5	19	25.392	-50	21	42.72	4	9009	CURACAO	8784	4	RD	9942	
8	16		9	35	10.0475	1	5	30	20.146	-48	1	18.18	4	9009	CURACAO	8784	9	RD	9943	
8	16		17	4	0.6176	1	3	44	46.081	-27	41	52.85	4	9003	WOODMERA	15389	4	LD	1349	
8	16		17	4	20.6176	1	3	50	6.739	-26	12	42.31	4	9003	WOODMERA	15389	9	LD	1350	
8	16		19	0	9.1944	1	22	56	6.765	-33	2	39.60	4	9003	WOODMERA	15393	6	LD	1351	
8	16		19	0	21.1943	1	23	3	58.377	-32	48	48.60	4	9003	WOODMERA	15393	9	LD	1352	
8	17		0	49	9.8313	1	3	24	2.706	-42	28	31.87	4	9002	OLIFANTS	14011	7	MY	1352	
8	17		0	49	17.8312	1	3	27	20.238	-41	40	47.22	4	9002	OLIFANTS	14011	8	MY	1363	
8	17		2	45	8.0455	1	21	56	6.293	-34	51	42.67	4	9002	OLIFANTS	14017	3	MY	1364	
8	17		2	45	16.0459	1	22	0	1.508	-34	51	43.06	4	9002	OLIFANTS	14017	4	MY	1542	
8	17		6	37	56.2732	1	4	51	31.676	-41	53	22.00	4	9007	AREQUIPA	9837	10	DM	3671	
8	17		6	38	4.2728	1	4	52	29.756	-41	17	58.96	4	9007	AREQUIPA	9837	11	DM	3672	
8	17		8	41	20.3327	1	2	56	58.103	-	0	34	0.55	4	9011	VILLA DOLO	10299	3	LD	2122
8	17		8	41	52.3331	1	3	9	2.368	1	24	47.79	4	9011	VILLA DOLO	10299	7	LD	2123	
8	17		8	42	12.1529	1	4	33	41.389	-28	49	51.67	4	9007	AREQUIPA	9838	6	DM	3444	
8	17		8	42	20.1528	1	4	36	0.281	-28	7	34.99	4	9007	AREQUIPA	9838	7	DM	3445	
8	17		18	14	58.2471	1	1	10	28.947	-31	29	1.65	4	9003	WOODMERA	15406	8	LD	1353	
8	17		18	15	14.2466	1	1	21	21.398	-30	15	6.18	4	9003	WOODMERA	15406	12	LD	1354	
8	17		20	11	33.1088	1	22	7	11.432	-16	26	3.37	4	9003	WOODMERA	15413	2	LD	1355	
8	17		20	12	19.8834	1	22	23	54.179	-15	23	12.17	4	9003	WOODMERA	15413	8	LD	2501	

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.-VO.
1963									
8 18	0 3 35.4462	1	4 13 33.449	-28 11 36.25	4	9002 OLIFANTS	14027	6 MY	1365
8 18	1 59 51.3300	1	23 30 53.391	-40 37 31.19	4	9002 OLIFANTS	14031	3 MY	1366
8 18	1 59 59.3300	1	23 36 54.796	-40 20 44.62	4	9002 OLIFANTS	14031	4 MY	1357
8 18	7 54 43.9524	1	3 42 17.477	1 37 32.31	4	9011 VILLA DOLO	10313	3 LD	2124
8 18	7 54 59.9522	1	3 46 53.310	2 29 33.10	4	9011 VILLA DOLO	10313	5 LD	2125
8 18	9 53 39.2872	1	1 18 18.960	11 7 53.06	4	9011 VILLA DOLO	10321	5 LD	2126
8 18	9 54 19.2871	1	1 32 34.479	13 24 53.26	4	9011 VILLA DOLO	10321	10 LD	6251
8 18	17 29 35.5681	1	3 2 17.972	-19 59 43.01	4	9003 WOOMERA	15420	11 LT	1479
8 18	17 29 39.5680	1	3 3 46.986	-19 40 1.22	4	9003 WOOMERA	15420	12 LT	1480
8 18	19 25 52.6638	1	22 46 23.231	-16 47 40.52	4	9003 WOOMERA	15428	3 LT	1481
8 18	19 26 16.6639	1	22 57 52.297	-15 53 26.65	4	9003 WOOMERA	15428	9 LT	1482
8 19	1 15 3.2689	1	2 24 29.901	-31 29 49.51	4	9002 OLIFANTS	14052	8 MY	1368
8 19	1 15 15.2690	1	2 30 48.255	-30 18 15.85	4	9002 OLIFANTS	14052	11 MY	1369
8 19	3 10 59.6596	1	22 11 11.417	-20 1 29.65	4	9002 OLIFANTS	14059	6 MY	1370
8 19	3 11 15.6593	1	22 17 13.193	-19 36 54.85	4	9002 OLIFANTS	14059	8 MY	1371
8 19	9 8 49.5840	1	3 48 13.122	-8 41 29.72	4	9007 AREQUIPA	9853	4 DM	3446
8 19	9 9 5.5837	1	3 53 53.314	-7 20 1.97	4	9007 AREQUIPA	9853	6 DM	3447
8 19	9 15 28.7456	1	5 33 2.878	-31 7 23.38	4	9009 CURACAO	8817	5 RD	9944
8 19	9 15 44.7458	1	5 37 1.259	-30 2 21.46	4	9009 CURACAO	8817	7 RD	9945
8 19	15 6 12.8403	1	5 50 34.274	-31 14 55.96	4	9012 MAJI	10859	8 LT	2915
8 19	15 6 16.8403	1	5 51 29.133	-31 1 9.16	4	9012 MAJI	10859	9 LT	2140
8 19	18 40 30.0842	1	0 21 33.592	-12 56 36.83	4	9003 WOOMERA	15442	3 LT	1483
8 19	18 40 58.0839	1	0 37 32.276	-11 0 29.52	4	9003 WOOMERA	15442	10 LT	1494
8 20	0 29 44.6806	1	3 51 36.022	-16 18 59.17	4	9002 OLIFANTS	14071	3 LT	1372
8 20	0 29 52.6806	1	3 53 30.234	-15 42 28.31	4	9002 OLIFANTS	14071	4 LT	1373
8 20	2 25 17.9837	1	23 7 24.820	-20 21 45.47	4	9002 OLIFANTS	14075	8 PL	728
8 20	2 25 32.9831	1	23 15 48.212	-19 34 30.82	4	9002 OLIFANTS	14075	10 PL	729
8 20	8 18 37.8340	1	2 23 58.938	12 18 8.82	4	9011 VILLA DOLO	10346	3 LD	2128
8 20	8 19 9.8352	1	2 35 45.912	14 0 50.66	4	9011 VILLA DOLO	10346	7 LD	2129
8 21	1 39 52.7170	1	1 10 17.570	-13 37 14.29	4	9002 OLIFANTS	14093	7 PL	730
8 21	1 40 0.7173	1	1 14 45.248	-12 55 35.03	4	9002 OLIFANTS	14093	9 PL	731
8 21	3 41 59.1180	1	0 11 14.714	11 6 27.00	4	9002 OLIFANTS	14100	8 PL	732
8 21	3 42 7.1182	1	0 13 44.734	11 35 2.22	4	9002 OLIFANTS	14100	9 PL	733
8 21	9 33 18.5253	1	2 0 19.344	-46 53 54.28	4	9009 CURACAO	8834	4 RD	9946
8 21	9 33 50.5245	1	2 13 46.258	-45 26 43.23	4	9009 CURACAO	8834	8 RD	9947
8 21	19 5 42.7792	1	0 2 31.316	6 21 22.27	4	9003 WOOMERA	15469	3 SJ	1485
8 21	19 6 2.7956	1	0 11 17.736	7 38 14.81	4	9003 WOOMERA	15469	8 SJ	1486
8 22	0 19 11.3464	1	12 36 57.821	-23 27 23.20	4	9007 AREQUIPA	9862	5 DM	3448
8 22	0 19 15.3457	1	12 38 23.019	-24 45 17.03	4	9007 AREQUIPA	9862	6 DM	3449
8 22	0 54 21.3950	1	3 6 20.949	-1 19 26.19	4	9002 OLIFANTS	14109	6 PL	734
8 22	0 56 26.6443	1	3 42 35.636	6 36 10.67	4	9002 OLIFANTS	14109	17 PL	735
8 22	0 57 14.6439	1	3 54 28.857	9 7 44.72	4	9002 OLIFANTS	14109	23 PL	736
8 22	2 50 59.7671	1	23 22 7.885	1 10 17.29	4	9002 OLIFANTS	14116	6 PL	737
8 22	2 51 23.7658	1	23 31 17.616	2 39 39.40	4	9002 OLIFANTS	14116	9 PL	738
8 22	8 50 24.2422	1	4 43 40.716	-25 55 13.99	4	9009 CURACAO	8849	3 RD	9948

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	8 22	8 50 48.2424	1	4 50 37.468	-24 6 35.68	4	9009 CURACAO	8849	9949
	8 22	14 45 42.4395	1	6 16 55.203	-9 34 35.03	4	9012 MAUI	10912	2141
	8 22	14 45 58.4375	1	6 20 39.299	-8 41 2.50	4	9012 MAUI	10912	2142
	8 22	18 19 15.4290	1	1 23 17.797	13 29 41.48	4	9003 WOOMERA	15485	1437
	8 22	18 19 43.4287	1	1 35 13.311	15 8 59.92	4	9003 WOOMERA	15485	1488
	8 22	20 16 50.6718	1	23 14 36.864	12 58 5.11	4	9003 WOOMERA	15491	1489
	8 22	20 17 30.6705	1	23 25 44.136	14 59 37.17	4	9003 WOOMERA	15491	1490
	8 23	2 4 31.0017	1	0 31 47.577	8 45 40.50	4	9002 OLIFANTS	14135	739
	8 23	2 5 34.9996	1	1 0 21.265	13 23 0.48	4	9002 OLIFANTS	14135	740
	8 23	7 57 28.7378	1	3 0 59.854	32 9 21.61	4	9011 VILLA DOLO	10371	2130
	8 23	7 57 36.7374	1	3 3 22.253	32 24 25.24	4	9011 VILLA DOLO	10371	2131
	8 23	7 59 13.3467	1	4 33 10.033	15 27 32.43	4	9007 AREQUIPA	9885	3450
	8 23	8 1 29.2200	1	4 58 51.303	-25 27 35.47	4	9009 CURACAO	8866	9950
	8 23	8 2 9.2229	1	5 7 53.445	-22 38 28.36	4	9009 CURACAO	8866	9951
	8 23	13 55 36.2316	1	5 57 58.354	-13 49 20.51	4	9012 MAUI	10924	2143
	8 23	13 56 8.2418	1	6 4 15.291	-12 8 14.24	4	9012 MAUI	10924	2144
	8 23	16 59 3.5538	1	19 32 11.094	-16 10 5.49	4	9002 OLIFANTS	14141	741
	8 24	1 18 48.7149	1	2 25 33.971	19 29 42.26	4	9002 OLIFANTS	14153	9715
	8 24	1 19 34.4635	1	2 41 54.422	21 50 33.06	4	9002 OLIFANTS	14153	9716
	8 24	3 15 1.2057	1	23 14 54.879	14 38 39.70	4	9002 OLIFANTS	14159	9717
	8 24	3 15 41.2038	1	23 26 19.676	16 56 47.84	4	9002 OLIFANTS	14159	9718
	8 24	7 10 32.3080	1	4 42 16.520	-32 3 42.24	4	9009 CURACAO	8878	925
	8 24	7 11 4.3091	1	4 48 24.311	-29 51 17.88	4	9009 CURACAO	8878	926
	8 24	9 14 32.0612	1	3 58 55.766	-7 36 58.89	4	9009 CURACAO	8882	927
	8 24	9 14 56.0614	1	4 7 54.611	-5 35 42.14	4	9009 CURACAO	8882	928
	8 24	9 18 3.2247	1	5 43 33.647	-14 59 4.13	4	9010 JUPITER	10699	9732
	8 24	10 24 28.4944	1	14 52 10.199	4 35 34.74	4	9003 WOOMERA	15512	1431
	8 24	10 24 38.4939	1	15 5 21.362	2 17 12.61	4	9003 WOOMERA	15512	1492
	8 24	15 8 27.9683	1	5 45 57.214	1 45 16.95	4	9012 MAUI	10943	2145
	8 24	15 8 35.9687	1	5 48 31.407	2 15 12.49	4	9012 MAUI	10943	2146
	8 24	18 42 47.8159	1	0 39 16.438	27 10 28.42	4	9003 WOOMERA	15520	1433
	8 24	18 43 3.8156	1	0 45 23.907	28 1 12.17	4	9003 WOOMERA	15520	1434
	8 25	2 27 39.6857	1	23 49 54.423	21 57 41.83	4	9002 OLIFANTS	14175	9719
	8 25	2 28 3.6853	1	23 58 26.984	23 29 54.26	4	9002 OLIFANTS	14175	9720
	8 25	8 26 21.0271	1	4 50 38.914	-4 42 27.85	4	9009 CURACAO	8897	929
	8 25	8 26 37.0278	1	4 55 26.483	-3 31 8.56	4	9009 CURACAO	8897	930
	8 25	17 57 34.5347	1	2 30 20.340	36 17 34.33	4	9003 WOOMERA	15535	1495
	8 25	17 58 14.5322	1	2 42 46.100	37 25 33.87	4	9003 WOOMERA	15535	1436
	8 26	1 40 51.2868	1	1 8 43.523	31 49 55.66	4	9002 OLIFANTS	14189	9721
	8 26	1 41 15.2884	1	1 18 13.503	33 4 17.07	4	9002 OLIFANTS	14189	9722
	8 27	6 46 29.2591	1	4 56 1.542	-10 41 23.11	4	9009 CURACAO	8912	931
	8 27	6 46 45.2602	1	4 59 5.106	-9 41 13.02	4	9009 CURACAO	8912	932
	8 27	8 49 39.2310	1	4 31 6.961	19 53 46.70	4	9009 CURACAO	8915	933
	8 27	14 40 2.6115	1	5 12 10.961	11 23 26.39	4	9012 MAUI	10989	2147
	8 27	14 40 18.6521	1	5 18 2.679	12 20 57.50	4	9012 MAUI	10989	2148

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	Obs. No.
1963	8 27	17 43 38.1788	11 40 58.559	-54 8 9.59	4	9002 OLIFANTS	14219	9 VO	9723
8 28	4 11 19.6231	1	4 50 11.251	-13 53 25.19	4	9004 SAN FERNAN	10173	2 SU	1450
8 28	4 11 27.6229	1	4 52 29.305	-13 28 15.16	4	9004 SAN FERNAN	10173	3 SU	1451
8 28	16 54 9.8439	1	11 39 19.236	-64 39 5.20	4	9002 OLIFANTS	14232	23 VO	9724
8 29	9 2 58.5061	1	0 33 45.910	48 39 4.43	4	9007 AREQUIPA	9946	10 DM	3451
8 29	9 3 6.5058	1	0 36 37.978	49 5 6.59	4	9007 AREQUIPA	9946	11 DM	3452
8 29	10 18 58.4182	1	12 13 55.523	-27 8 30.91	4	9003 WOODMERA	15576	4 LD	1722
8 29	10 19 2.4182	1	12 14 35.447	-28 9 15.03	4	9003 WOODMERA	15576	5 LD	1723
8 29	10 20 29.4649	1	12 37 4.020	-59 45 51.53	4	9003 WOODMERA	15577	4 LD	1724
8 29	10 20 35.4646	1	12 40 11.960	-62 37 29.03	4	9003 WOODMERA	15577	8 LD	1725
8 29	12 57 2.0240	1	4 41 50.329	-6 3 55.87	4	9012 MAUI	11009	2 SJ	2149
8 29	12 57 10.0239	1	4 43 55.921	-5 32 40.58	4	9012 MAUI	11009	4 SJ	2150
8 29	14 59 24.2841	1	3 44 54.315	24 1 40.29	4	9012 MAUI	11016	3 MY	2151
8 29	14 59 32.2841	1	3 48 49.319	24 35 56.39	4	9012 MAUI	11016	5 MY	2152
8 30	0 39 9.6244	1	4 17 21.863	4 15 54.14	4	9008 SHIRAZ	13786	17 BA	302
8 30	0 39 57.6264	1	4 36 44.816	7 18 25.28	4	9008 SHIRAZ	13786	23 BA	303
8 30	4 32 14.6765	1	4 32 19.442	-2 55 29.51	4	9004 SAN FERNAN	10224	4 SU	1452
8 30	4 32 22.6761	1	4 35 13.239	-2 28 58.86	4	9004 SAN FERNAN	10224	5 SU	1453
8 30	6 18 2.5928	1	4 46 43.206	1 23 17.32	4	9009 CURACAO	8949	4 RD	934
8 30	6 18 26.5928	1	4 51 43.604	2 44 38.87	4	9009 CURACAO	8949	7 RD	935
8 30	8 13 53.3270	1	1 38 52.813	53 28 58.49	4	9007 AREQUIPA	9959	6 DM	3453
8 30	8 13 57.3269	1	1 40 40.213	53 38 1.86	4	9007 AREQUIPA	9959	7 DM	3454
8 30	8 19 5.4831	1	4 33 38.322	-4 30 6.80	4	9010 JUPITER	10812	3 VD	166
8 30	8 19 37.4878	1	4 43 30.285	-2 29 45.96	4	9010 JUPITER	10812	7 VD	167
8 30	9 28 49.5337	1	12 5 56.595	-20 47 20.04	4	9003 WOODMERA	15588	10 LD	1726
8 30	9 28 53.5337	1	12 7 19.142	-21 56 1.33	4	9003 WOODMERA	15588	11 LD	6254
8 30	14 9 14.7231	1	4 28 18.905	19 38 35.10	4	9012 MAUI	11035	4 RD	936
8 30	14 9 54.7226	1	4 45 24.508	21 55 6.79	4	9012 MAUI	11035	9 RD	937
8 30	23 2 11.2567	1	12 38 36.498	-49 27 9.80	4	9011 VILLA DOLO	10458	4 LD	2132
8 30	23 2 15.2565	1	12 42 29.785	-51 34 27.66	4	9011 VILLA DOLO	10458	5 LD	2133
8 30	23 49 2.1979	1	4 42 40.540	2 9 12.14	4	9008 SHIRAZ	13809	2 BA	304
8 30	23 49 50.1999	1	4 59 7.960	4 53 1.05	4	9008 SHIRAZ	13809	8 BA	305
8 31	3 40 34.4089	1	4 19 6.065	-8 55 52.81	4	9004 SAN FERNAN	10247	3 SU	1454
8 31	3 40 42.4089	1	4 21 41.232	-8 28 53.42	4	9004 SAN FERNAN	10247	4 SU	1455
8 31	7 28 16.9412	1	4 33 0.483	-7 46 9.93	4	9010 JUPITER	10837	6 VD	168
8 31	7 28 32.9432	1	4 37 8.692	-6 48 40.21	4	9010 JUPITER	10837	8 VD	169
8 31	10 40 26.3675	1	11 54 27.052	-45 0 18.05	4	9003 WOODMERA	15605	10 LD	6255
8 31	10 40 38.3667	1	11 53 35.165	-48 23 57.23	4	9003 WOODMERA	15605	13 LD	6256
8 31	12 19 12.2376	1	4 58 43.915	15 33 18.25	4	9012 MAUI	11057	3 RD	938
8 31	12 19 44.2380	1	5 9 27.358	17 5 57.45	4	9012 MAUI	11057	7 RD	939
8 31	17 10 1.6551	3	4 22 51.741	-11 34 14.56	4	9005 TOKYO	8873	8 SU	1456
8 31	17 10 17.6547	3	4 27 19.230	-10 41 39.56	4	9005 TOKYO	8873	9 SU	1457
8 31	19 8 C.0981	3	2 16 33.843	-6 48 9.30	4	9005 TOKYO	8879	5 SU	1458
8 31	19 8 8.0983	3	2 19 31.616	-6 19 23.99	4	9005 TOKYO	8879	6 SU	1459
9 1	C 59 9.4623	1	3 37 51.630	20 33 7.92	4	9008 SHIRAZ	13836	3 AM	4645

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	9 1 0 59 33.4632	1	3 50 1.107	22 6 29.72	4	9008 SHIRAZ	13836	6 AM	4646
	9 1 4 49 24.2548	10	2 55 27.863	- 0 8 15.33	4	9004 SAN FERNAN	10267	3 BM	3932
	9 1 4 49 48.2537	10	3 5 17.197	1 20 45.03	4	9004 SAN FERNAN	10267	6 BM	3933
	9 1 8 39 45.7319	1	4 26 28.401	13 0 45.22	4	9010 JUPITER	10870	3 KA	3940
	9 1 8 40 9.7350	1	4 36 18.449	14 22 56.22	4	9010 JUPITER	10870	6 KA	3941
	9 1 9 49 7.1267	1	11 27 1.875	-31 36 27.45	4	9003 WOOMERA	15616	6 FI	2345
	9 1 9 49 19.1253	1	11 27 11.574	-34 30 10.33	4	9003 WOOMERA	15616	9 FI	2346
	9 1 9 51 58.5694	1	1 41 57.440	-81 26 37.52	4	9003 WOOMERA	15617	3 FI	2347
	9 1 10 36 33.4575	1	4 16 29.442	5 50 44.42	4	9001 ORGAN PASS	11487	2 JW	3928
	9 1 10 37 5.4568	1	4 29 22.719	7 42 29.04	4	9001 ORGAN PASS	11487	6 JW	3929
	9 1 12 27 26.9181	1	4 44 15.829	7 17 33.46	4	9012 MAUI	11078	4 SC	2350
	9 1 12 27 38.9179	1	4 47 37.542	7 56 41.58	4	9012 MAUI	11078	7 SC	2351
	9 1 14 28 38.7620	1	3 28 55.327	37 16 25.24	4	9012 MAUI	11088	4 SC	2352
	9 1 14 28 54.7623	1	3 38 15.064	38 11 43.73	4	9012 MAUI	11088	8 BZ	2353
	9 1 22 6 2.6337	1	4 20 55.127	- 8 29 50.80	4	9008 SHIRAZ	13854	4 AM	4647
	9 1 22 6 10.6333	1	4 22 56.279	- 8 1 55.86	4	9008 SHIRAZ	13854	5 AM	4648
	9 1 23 22 2.3504	1	11 32 2.093	-46 53 0.45	4	9011 VILLA DOLO	10484	7 FI	2344
	9 2 0 10 18.5739	1	5 3 19.962	21 54 8.20	4	9008 SHIRAZ	13862	2 JW	4649
	9 2 0 10 34.5750	1	5 10 22.097	22 32 5.51	4	9008 SHIRAZ	13862	4 JW	4650
	9 2 4 0 32.5078	1	4 6 21.995	3 47 45.66	4	9004 SAN FERNAN	10293	3 BM	3934
	9 2 4 0 56.5068	1	4 16 10.329	5 7 59.85	4	9004 SAN FERNAN	10293	6 BM	3935
	9 2 7 49 10.4628	1	4 44 33.100	9 5 29.61	4	9010 JUPITER	10884	3 KA	3942
	9 2 7 49 34.4630	1	4 52 29.882	10 19 3.14	4	9010 JUPITER	10884	6 KA	3943
	9 2 9 44 39.0295	1	4 6 58.845	- 1 26 48.07	4	9001 ORGAN PASS	11491	5 BM	3930
	9 2 9 44 51.0289	1	4 11 13.855	- 0 42 31.45	4	9001 ORGAN PASS	11491	9 BM	3931
	9 2 11 36 20.6431	1	4 36 45.029	2 35 46.92	4	9012 MAUI	11104	4 BZ	2354
	9 2 11 36 44.6436	1	4 42 14.109	3 50 49.00	4	9012 MAUI	11104	7 BZ	2355
	9 2 23 17 57.3279	1	4 41 56.200	12 48 29.15	4	9008 SHIRAZ	13880	4 AM	4651
	9 2 23 18 5.3275	1	4 44 58.572	13 12 2.36	4	9008 SHIRAZ	13880	5 AM	4652
	9 3 1 12 17.0515	1	0 17 59.286	7 10 52.27	4	9008 SHIRAZ	13888	4 TA	4653
	9 3 1 12 25.0512	1	0 20 21.866	7 43 47.41	4	9008 SHIRAZ	13888	6 TA	4654
	9 3 3 9 33.4301	1	4 18 2.277	0 32 54.19	4	9004 SAN FERNAN	10304	3 BM	3936
	9 3 3 9 41.4299	1	4 20 54.678	0 58 55.22	4	9004 SAN FERNAN	10304	4 BM	3937
	9 3 10 9 44.9127	1	11 14 42.621	-48 55 37.09	4	9003 WOOMERA	15654	3 SC	8316
	9 3 10 9 56.9112	1	11 11 53.697	-52 18 3.92	4	9003 WOOMERA	15654	6 SC	2349
	9 3 12 49 45.2264	1	5 39 7.931	29 8 57.99	4	9012 MAUI	11130	4 BZ	2356
	9 3 14 47 46.5042	1	2 25 31.811	51 36 2.76	4	9012 MAUI	11138	4 BZ	2357
	9 3 14 47 58.5048	1	2 33 48.509	52 21 24.81	4	9012 MAUI	11138	7 BZ	2358
	9 3 22 26 14.3988	1	4 33 25.719	6 20 36.89	4	9008 SHIRAZ	13899	4 TA	4655
	9 4 0 27 57.8046	1	3 58 53.380	34 11 52.75	4	9008 SHIRAZ	13907	3 TA	4656
	9 4 0 28 29.8061	1	4 18 9.742	35 30 31.90	4	9008 SHIRAZ	13907	7 TA	4657
	9 4 4 19 38.4764	1	3 47 41.057	17 34 25.52	4	9004 SAN FERNAN	10308	3 EM	3938
	9 4 4 20 2.4762	1	3 59 57.198	18 47 35.75	4	9004 SAN FERNAN	10308	6 EM	3939
	9 4 8 7 40.6724	1	4 21 13.835	23 29 4.51	4	9010 JUPITER	10911	4 KA	3944
	9 4 8 7 48.6715	1	4 24 56.034	23 50 17.38	4	9010 JUPITER	10911	5 KA	3945

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	9 4 10 4 18.1354	1	0 15 32.924	24 36 48.71	4	9010 JUPITER	10918	5 TA	3946
	9 4 10 4 42.1387	1	0 23 39.071	26 34 48.46	4	9010 JUPITER	10918	8 TA	3947
	9 4 21 34 31.3249	1	4 20 56.062	1 1 23.74	4	9008 SHIRAZ	13922	2 JW	4658
	9 4 21 35 3.3238	1	4 29 31.954	2 39 49.52	4	9008 SHIRAZ	13922	6 NG	4659
	9 4 23 37 40.8287	1	4 59 12.990	29 55 37.58	4	9008 SHIRAZ	13925	3 AM	4660
	9 4 23 37 48.8293	1	5 3 3.843	30 7 8.23	4	9008 SHIRAZ	13925	4 AM	4661
	9 5 7 15 51.8417	1	4 21 2.918	15 33 35.28	4	9010 JUPITER	10936	2 JV	5169
	9 5 7 16 7.8451	1	4 27 7.094	16 19 18.60	4	9010 JUPITER	10936	4 JV	5170
	9 5 10 29 37.8061	1	11 35 1.883	-60 17 10.79	4	9003 WOOMERA	15681	11 TA	5155
	9 5 10 29 43.8057	1	11 33 53.068	-62 15 8.10	4	9003 WOOMERA	15681	14 TA	5156
	9 5 13 4 48.6604	1	3 59 44.079	41 8 19.19	4	9012 MAUI	11153	4 NG	5179
	9 5 13 5 12.6629	1	4 13 40.949	41 44 19.20	4	9012 MAUI	11153	7 NG	5180
	9 5 15 5 49.3021	1	1 2 48.085	56 45 45.77	4	9012 MAUI	11161	3 NG	5181
	9 5 15 6 5.3051	1	1 12 28.402	57 59 24.04	4	9012 MAUI	11161	5 NG	5182
	9 5 22 46 25.9992	1	5 10 24.329	23 33 58.64	4	9008 SHIRAZ	13944	2 SC	4340
	9 5 22 46 41.9999	1	5 16 24.620	23 56 38.75	4	9008 SHIRAZ	13944	4 SC	4341
	9 6 0 47 26.4323	1	4 14 16.485	49 20 21.46	4	9008 SHIRAZ	13951	2 SC	4342
	9 6 0 47 34.4334	1	4 20 25.093	49 29 27.62	4	9008 SHIRAZ	13951	3 SC	4343
	9 6 2 37 39.2471	1	4 35 2.939	10 36 3.24	4	9004 SAN FERNAN	10334	3 FI	4317
	9 6 2 38 3.2462	1	4 44 2.400	11 33 31.30	4	9004 SAN FERNAN	10334	6 FI	5451
	9 6 4 39 6.1502	1	4 5 14.078	32 41 12.21	4	9004 SAN FERNAN	10341	3 FI	4318
	9 6 4 39 30.1501	1	4 20 15.504	33 23 49.54	4	9004 SAN FERNAN	10341	6 FI	4319
	9 6 8 25 33.7671	1	0 51 12.174	66 32 33.67	4	9009 CURACAO	8970	1 EM	5302
	9 6 8 26 5.7705	1	1 17 26.103	68 27 56.97	4	9009 CURACAO	8970	5 EM	7188
	9 6 8 27 11.4888	1	4 45 7.506	41 36 5.98	4	9010 JUPITER	10957	2 AC	4332
	9 6 8 27 27.4906	1	4 54 28.905	41 45 3.80	4	9010 JUPITER	10957	4 BZ	4333
	9 6 9 40 3.6016	1	1 2 2.694	-70 8 45.53	4	9003 WOOMERA	15694	6 TA	5157
	9 6 10 23 53.1231	1	4 32 30.026	32 42 45.73	4	9001 ORGAN PASS	11515	3 BZ	4573
	9 6 10 24 9.1231	1	4 41 33.251	33 4 5.07	4	9001 ORGAN PASS	11515	5 BZ	4574
	9 6 21 55 29.9816	1	5 15 46.566	18 43 16.74	4	9008 SHIRAZ	13963	4 NG	6358
	9 6 23 55 11.2473	1	4 28 38.715	43 16 6.83	4	9008 SHIRAZ	13969	6 VG	6493
	9 6 23 55 43.2492	1	4 49 38.367	43 32 34.35	4	9008 SHIRAZ	13969	10 VG	4344
	9 7 3 47 59.2786	1	4 48 3.500	28 40 3.24	4	9004 SAN FERNAN	10355	2 FI	4320
	9 7 9 32 11.1526	1	4 46 23.372	26 3 40.24	4	9001 ORGAN PASS	11534	3 BZ	4575
	9 7 9 32 27.1525	1	4 53 43.026	26 24 43.50	4	9001 ORGAN PASS	11534	5 BZ	4576
	9 7 9 36 9.1002	1	3 3 18.168	57 38 29.41	4	9010 JUPITER	10977	2 BZ	4334
	9 7 9 36 33.1018	1	3 25 17.486	58 25 36.98	4	9010 JUPITER	10977	5 BZ	4335
	9 7 11 33 31.6320	1	3 43 2.768	48 36 28.47	4	9001 ORGAN PASS	11539	3 BZ	4577
	9 7 11 33 35.6319	1	3 46 13.953	48 42 50.46	4	9001 ORGAN PASS	11539	4 BZ	4578
	9 7 23 4 22.9053	1	5 20 2.588	36 10 56.16	4	9008 SHIRAZ	13981	2 TA	4345
	9 7 23 4 38.9062	1	5 27 30.432	36 9 51.49	4	9008 SHIRAZ	13981	4 TA	5459
	9 8 2 56 57.0247	1	5 16 32.023	23 44 2.75	4	9004 SAN FERNAN	10376	9 FI	4547
	9 8 2 57 13.0247	1	5 23 9.834	23 55 23.31	4	9004 SAN FERNAN	10376	7 FI	4548
	9 8 4 56 22.7956	1	3 28 32.337	40 24 8.81	4	9004 SAN FERNAN	10384	4 FI	4545
	9 8 4 56 46.7959	1	3 45 54.420	41 5 8.89	4	9004 SAN FERNAN	10384	7 FI	4546

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 9 8	8 41 16.7795	1	5 6 13.466	20 57 46.94	9001 ORGAN PASS	11549	1 EM	6340
9 8	8 46 20.3167	1	5 36 1.330	52 53 56.98	9010 JUPITER	10984	5 BZ	4336
9 8	8 46 28.3176	1	5 41 12.793	52 41 16.08	9010 JUPITER	10984	6 BZ	4337
9 8	9 58 1.0204	1	23 39 31.985	-80 55 7.07	9003 WOOMERA	15730	2 TA	5158
9 8	9 58 3.0202	1	23 39 26.555	-79 50 28.23	9003 WOOMERA	15730	3 AC	5159
9 8	10 42 1.7654	1	4 41 3.322	44 47 47.96	9001 ORGAN PASS	11555	5 SE	4580
9 8	10 42 33.7655	1	5 3 0.237	44 38 58.68	9001 ORGAN PASS	11555	9 SE	4581
9 8	14 22 58.9271	1	1 55 30.678	68 53 7.04	9012 MAJI	11175	2 NG	5183
9 8	14 33 38.9289	1	2 41 51.646	70 29 41.40	9012 MAJI	11175	7 NG	5184
9 9	0 13 43.8639	1	5 3 12.174	53 35 20.32	9008 SHIRAZ	14001	3 TA	5299
9 9	0 13 59.8650	1	5 15 26.305	53 15 14.37	9008 SHIRAZ	14001	5 TA	5300
9 9	2 4 43.9096	1	5 4 17.728	18 10 57.69	9004 SAN FERNAN	10392	10 FI	4544
9 9	4 5 55.3842	1	5 3 14.389	37 57 24.28	9004 SAN FERNAN	10396	3 FI	4542
9 9	4 6 11.3843	1	5 13 3.638	37 49 32.61	9004 SAN FERNAN	10396	5 FI	4543
9 9	7 53 46.4257	1	5 31 40.927	45 53 41.33	9010 JUPITER	10987	4 BZ	4338
9 9	7 53 54.4253	1	5 35 48.016	45 43 14.12	9010 JUPITER	10987	5 SC	4339
9 9	9 50 25.3902	1	5 16 8.267	38 0 46.40	9001 ORGAN PASS	11562	7 SE	4582
9 9	9 50 41.3905	1	5 24 26.803	37 50 55.10	9001 ORGAN PASS	11562	9 SE	4583
9 9	9 54 31.0785	1	3 24 46.679	64 35 59.74	9010 JUPITER	10994	3 MJ	4206
9 9	9 54 47.0797	1	3 42 28.615	64 50 55.25	9010 JUPITER	10994	5 MJ	4207
9 9	11 47 17.0957	1	0 46 36.462	41 45 24.55	9001 ORGAN PASS	11568	2 SE	4584
9 9	11 47 33.0953	1	0 55 7.664	42 55 44.79	9001 ORGAN PASS	11568	4 SE	4585
9 9	13 41 54.2773	1	4 35 18.128	67 55 24.56	9012 MAJI	11192	2 SE	5185
9 9	12 42 2.2779	1	4 43 43.457	67 43 25.69	9012 MAJI	11192	3 SE	5186
9 9	21 25 27.0141	1	5 32 46.654	45 11 58.58	9006 NAINI TAL	8480	13 JV	5281
9 9	21 25 51.0154	1	5 45 22.530	44 35 11.75	9006 NAINI TAL	8480	16 JV	5282
9 9	23 21 30.4823	1	5 25 5.490	46 51 37.22	9008 SHIRAZ	14015	3 TA	6497
9 9	23 21 54.4834	1	5 38 47.136	46 13 19.28	9008 SHIRAZ	14015	6 TA	5301
9 9	23 25 2.8053	1	2 24 21.164	59 10 25.50	9006 NAINI TAL	8484	5 JV	6347
9 9	23 25 18.8063	1	2 39 17.121	59 50 32.98	9006 NAINI TAL	8484	7 JV	9189
9 10	1 10 47.7006	1	4 14 48.736	9 58 12.08	9004 SAN FERNAN	10405	3 FI	5456
9 10	1 11 3.6992	1	4 20 19.778	10 33 50.37	9004 SAN FERNAN	10405	5 FI	4541
9 10	1 17 20.4783	1	23 54 9.411	42 4 59.95	9008 SHIRAZ	14022	3 EM	4873
9 10	1 17 36.4789	1	0 0 38.334	43 18 12.37	9008 SHIRAZ	14022	5 EM	4874
9 10	2 13 41.5955	1	5 13 48.405	32 24 15.46	9004 SAN FERNAN	10409	6 FI	4538
9 10	3 13 57.5954	1	5 21 52.361	32 16 56.45	9004 SAN FERNAN	10409	8 FI	4539
9 10	8 58 44.9946	1	5 29 22.000	30 56 33.72	9001 ORGAN PASS	11578	3 NG	4592
9 10	8 58 56.9946	1	5 34 0.705	30 52 32.02	9001 ORGAN PASS	11578	6 NG	4593
9 10	14 53 57.4340	1	6 20 28.850	71 38 21.18	9012 MAJI	11219	4 SE	5187
9 10	14 54 21.4325	1	6 43 3.320	70 20 12.43	9012 MAJI	11219	7 SE	5188
9 10	20 22 58.2051	1	5 27 41.928	37 52 2.14	9006 NAINI TAL	8495	7 JV	6349
9 10	20 33 14.2056	1	5 34 23.984	37 36 30.84	9006 NAINI TAL	8495	7 JV	6350
9 10	22 29 6.3221	1	5 26 28.514	39 25 10.50	9008 SHIRAZ	14030	4 EM	4875
9 10	22 30 4.8763	1	5 51 9.867	38 13 51.84	9008 SHIRAZ	14030	9 EM	4876
9 10	22 34 53.8701	10	5 29 33.176	57 56 1.60	9006 NAINI TAL	8498	2 FI	4746

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 9 10	22 35 9.8698	10	5 42 13.452	57 15 6.49	4	9006 NAINI TAL	8498	4 FI	4747
9 11	0 30 49.5608	1	5 6 44.583	59 5 17.83	4	9008 SHIRAZ	14033	4 EM	4877
9 11	0 30 57.5610	1	5 13 51.642	58 48 41.48	4	9008 SHIRAZ	14033	5 AC	4878
9 11	2 21 1.3362	1	5 4 8.498	26 31 37.52	4	9004 SAN FERNAN	10423	2 FI	4537
9 11	4 21 39.8516	1	4 14 8.577	44 6 55.86	4	9004 SAN FERNAN	10429	4 FI	4535
9 11	4 21 55.8517	1	4 26 29.299	43 59 0.26	4	9004 SAN FERNAN	10429	6 FI	4536
9 11	8 9 1.2423	1	0 10 6.907	78 23 16.95	4	9009 CURACAO	8995	3 EM	5304
9 11	8 9 25.2431	1	0 45 26.623	79 40 37.67	4	9009 CURACAO	8995	6 EM	5305
9 11	8 10 45.5390	1	5 50 23.765	54 13 25.09	4	9010 JUPITER	11022	4 MJ	4208
9 11	8 11 1.5397	1	5 59 39.038	53 28 38.23	4	9010 JUPITER	11022	6 MJ	4209
9 11	10 7 41.0733	1	5 41 45.768	45 10 31.27	4	9001 ORGAN PASS	11591	6 SE	4586
9 11	10 7 57.0737	1	5 50 35.876	44 34 46.30	4	9001 ORGAN PASS	11591	8 SE	4587
9 11	10 9 16.6148	1	1 5 2.036	60 6 56.04	4	9010 JUPITER	11029	3 RD	4210
9 11	10 9 32.6168	1	1 17 30.005	61 6 56.73	4	9010 JUPITER	11029	5 RD	4211
9 11	13 59 37.5496	1	5 29 31.798	72 3 12.07	4	9012 MAUI	11234	3 JV	4855
9 11	13 59 49.5498	1	5 42 28.165	71 27 22.78	4	9012 MAUI	11234	6 JV	7185
9 11	17 7 26.9796	1	11 14 27.639	-70 31 47.40	4	9002 OLIFANTS	14459	29 SC	4697
9 11	17 7 34.9789	1	11 13 55.689	-73 6 59.72	4	9002 OLIFANTS	14459	31 SC	4698
9 11	21 41 43.7889	1	5 29 45.302	53 38 37.09	4	9006 NAINI TAL	8512	3 FI	4326
9 11	21 42 15.7946	1	5 50 14.318	52 9 3.66	4	9006 NAINI TAL	8512	7 FI	6342
9 11	23 38 38.4079	1	5 53 30.668	52 35 6.67	4	9008 SHIRAZ	14050	4 AC	4879
9 11	23 38 54.4086	1	6 3 1.014	51 46 31.26	4	9008 SHIRAZ	14050	6 AC	4880
9 12	9 10 6.9196	1	2 22 9.147	40 58 43.22	4	9001 ORGAN PASS	11608	4 SE	4588
9 12	9 10 14.9198	1	2 29 14.090	41 16 25.40	4	9001 ORGAN PASS	11608	6 SE	4589
9 12	10 31 34.9810	1	14 54 33.908	-15 46 11.81	4	9003 WOOMERA	15805	5 AC	5160
9 12	10 31 36.9401	1	14 57 49.520	-15 32 51.87	4	9003 WOOMERA	15805	6 AC	5161
9 12	13 2 1.6695	1	23 53 32.149	68 21 58.11	4	9012 MAUI	11242	3 SE	4857
9 12	13 2 33.6697	1	0 33 17.127	70 35 44.36	4	9012 MAUI	11242	7 SE	4858
9 12	22 45 25.8305	1	5 44 27.756	47 11 24.78	4	9008 SHIRAZ	14068	4 AC	7187
9 12	22 45 49.8320	1	5 56 1.246	46 6 8.89	4	9008 SHIRAZ	14068	7 RD	4881
9 13	8 19 37.0945	1	22 39 18.802	48 41 35.41	4	9010 JUPITER	11042	2 RD	4214
9 13	8 19 30.2514	1	4 16 3.438	34 34 38.20	4	9001 ORGAN PASS	11620	2 SE	4590
9 13	6 24 32.1311	1	5 18 52.006	40 53 47.62	4	9010 JUPITER	11041	5 RD	4213
9 13	6 24 16.1304	1	5 12 18.771	41 19 8.01	4	9010 JUPITER	11041	3 RD	4212
9 13	8 19 42.2514	1	4 22 40.797	34 30 45.94	4	9001 ORGAN PASS	11620	5 SE	4591
9 13	8 19 53.0951	1	22 48 14.348	50 22 36.26	4	9010 JUPITER	11042	4 RD	4215
9 13	9 41 38.0091	1	21 34 14.390	-1 56 43.40	4	9003 WOOMERA	15823	7 JV	5162
9 13	10 15 17.9835	1	22 48 21.603	33 52 44.35	4	9001 ORGAN PASS	11622	4 TA	4712
9 13	10 15 25.9837	1	22 52 6.467	34 37 59.66	4	9001 ORGAN PASS	11622	6 AC	4713
9 13	17 23 58.1790	1	13 38 23.944	-46 42 3.64	4	9002 OLIFANTS	14496	22 NG	4699
9 13	17 24 14.1783	1	14 6 29.399	-49 1 52.38	4	9002 OLIFANTS	14496	26 NG	4700
9 13	23 12 30.2214	1	20 57 49.704	13 30 6.65	4	9011 VILLA DDOLO	10513	3 JV	5167
9 13	23 12 46.2207	1	21 16 41.151	15 34 17.49	4	9011 VILLA DDOLO	10513	7 JV	5168
9 13	23 46 18.5519	1	22 29 47.277	41 16 0.41	4	9008 SHIRAZ	14084	4 RD	4882
9 13	23 46 34.5520	1	22 36 58.779	42 48 27.93	4	9008 SHIRAZ	14084	6 RD	4883

DATE			TIME (A-L)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.			
Y	M	D	H	M	S	MS	H	M	S	D	M	S							
1963	9	14	22 55	52.3920	1	1	0	42	36.651	59	31	26.82	4	9008	SHIRAZ	14101	4	RD	4884
	9	14	22 56	16.3929	1	1	1	12	47.618	60	51	20.37	4	9008	SHIRAZ	14101	7	RD	4885
	9	15	2 47	14.9864	1	1	4	40.288	39	50	41.99	4	9004	SAN FERNAN	10452	3	FI	5455	
	9	15	2 47	26.9863	1	1	16	0.099	40	32	21.61	4	9004	SAN FERNAN	10452	6	FI	4532	
	9	15	6 39	1.6321	1	5	16	52.215	51	21	48.14	4	9010	JUPITER	11071	3	SE	4216	
	9	15	6 39	17.6308	1	5	24	59.013	50	27	46.79	4	9010	JUPITER	11071	5	SE	4217	
	9	15	10 30	42.1292	1	22	36	45.419	38	9	21.75	4	9001	ORGAN PASS	11637	5	EM	4716	
	9	15	10 30	58.1289	1	22	44	7.383	39	31	43.40	4	9001	ORGAN PASS	11637	7	EM	4717	
	9	15	12 26	55.1875	1	4	42	7.769	74	15	54.07	4	9012	MAJI	11297	4	FI	4853	
	9	15	12 27	27.1860	1	5	18	47.924	71	58	26.45	4	9012	MAJI	11297	8	FI	4864	
	9	15	22 5	49.1954	1	5	5	21.421	51	32	40.41	4	9008	SHIRAZ	14114	4	RD	4886	
	9	15	22 6	5.1957	1	5	14	54.267	50	33	25.52	4	9008	SHIRAZ	14114	6	RD	4887	
	9	16	0 0	45.0791	1	22	7	29.382	40	35	4.65	4	9008	SHIRAZ	14118	3	RD	4888	
	9	16	C 0	53.0790	1	22	10	28.945	41	15	19.02	4	9008	SHIRAZ	14118	4	RD	6494	
	9	16	9 39	30.6058	1	0	16	59.862	54	17	56.65	4	9001	ORGAN PASS	11650	7	RD	4718	
	9	16	9 39	34.6057	1	0	21	22.153	54	35	16.95	4	9001	ORGAN PASS	11650	8	RD	4719	
	9	16	11 36	2.3599	1	6	26	50.787	55	6	59.25	4	9012	MAJI	11305	4	FI	4865	
	9	16	11 36	26.3593	1	6	33	13.602	53	34	9.77	4	9012	MAJI	11305	7	FI	4866	
	9	16	23 11	42.4035	1	2	21	17.402	65	44	4.89	4	9008	SHIRAZ	14127	2	SE	4220	
	9	17	8 49	57.9253	1	5	19	18.721	46	15	6.23	4	9001	ORGAN PASS	11661	3	RD	4720	
	9	17	8 53	15.5236	1	6	33	0.083	34	14	26.28	4	9001	ORGAN PASS	11662	4	RD	4721	
	9	17	8 53	31.5226	1	6	37	5.112	33	24	37.61	4	9001	ORGAN PASS	11662	6	RD	4722	
	9	17	8 55	5.4962	1	23	38	21.076	74	57	8.67	4	9009	CJRACAO	9043	4	RD	5310	
	9	17	8 55	21.4960	1	23	54	0.458	75	51	17.68	4	9009	CJRACAO	9043	6	RD	6499	
	9	17	10 44	11.9837	1	22	22	37.489	36	42	22.46	4	9001	ORGAN PASS	11666	2	BZ	4723	
	9	17	10 44	51.9829	1	22	39	49.424	39	36	17.66	4	9001	ORGAN PASS	11666	7	BZ	4724	
	9	17	10 52	48.2453	1	5	20	39.791	46	49	48.87	4	9001	ORGAN PASS	11667	4	BZ	4725	
	9	17	10 53	12.2417	1	5	36	26.331	45	3	28.73	4	9001	ORGAN PASS	11667	7	BZ	4726	
	9	17	16 31	28.1412	3	3	46	9.425	45	43	29.30	4	9005	TOKYO	8893	2	NG	8199	
	9	17	16 32	16.1410	3	4	24	46.434	43	14	51.43	4	9005	TOKYO	8893	8	NG	4595	
	9	17	16 33	55.6967	3	5	23	35.952	37	26	35.58	4	9005	TOKYO	8894	6	NG	4596	
	9	17	16 34	19.6967	3	5	34	33.382	36	3	34.57	4	9005	TOKYO	8894	9	TA	4597	
	9	17	18 26	58.6531	3	22	35	15.071	29	28	20.51	4	9005	TOKYO	8897	2	TA	4598	
	9	17	18 27	38.6534	3	22	52	2.292	31	50	34.48	4	9005	TOKYO	8897	7	AC	4599	
	9	17	18 33	31.7099	3	3	8	5.140	44	4	51.30	4	9005	TOKYO	8898	3	BZ	5453	
	9	17	18 34	3.7099	3	3	36	6.274	43	8	56.80	4	9005	TOKYO	8898	11	BZ	4601	
	9	17	22 22	19.5677	1	6	30	15.796	42	39	58.26	4	9008	SHIRAZ	14140	2	FI	4330	
	9	17	22 22	51.5636	1	6	39	12.836	40	31	39.46	4	9008	SHIRAZ	14140	6	FI	4331	
	9	18	7 56	35.2456	1	5	33	47.665	37	22	26.64	4	9001	ORGAN PASS	11675	5	BZ	4727	
	9	18	7 56	59.2451	1	5	41	45.319	36	7	57.74	4	9001	ORGAN PASS	11675	8	SC	4728	
	9	18	17 2	12.9720	1	17	54	32.074	43	2	26.88	4	9002	OLIFANTS	14606	4	NG	4701	
	9	18	17 2	28.9728	1	18	23	47.210	45	22	18.48	4	9002	OLIFANTS	14606	8	NG	4702	
	9	18	21 26	53.1805	1	5	59	12.075	41	46	15.09	4	9008	SHIRAZ	14148	6	TA	5297	
	9	18	21 27	9.1805	1	6	3	44.815	40	45	28.61	4	9008	SHIRAZ	14148	8	TA	5298	
	9	18	23 22	14.1141	1	22	58	58.665	57	7	20.85	4	9008	SHIRAZ	14151	4	TA	5296	

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	9 18	23 22 30.1144	23 13 35.569	58 30 34.05	4	9008 SHIRAZ	14151	6 TA	6492
9 18	23 27 44.2485	1	23 54 17.502	41 16 46.19	4	9006 NAINI TAL	8562	7 FI	4327
9 18	23 28 0.2491	1	0 2 20.866	41 52 16.36	4	9006 NAINI TAL	8562	9 FI	4328
9 18	23 28 33.0574	1	5 58 8.212	49 33 7.04	4	9008 SHIRAZ	14152	3 NG	4606
9 18	23 28 49.0580	1	6 6 20.634	48 6 31.83	4	9008 SHIRAZ	14152	5 NG	4607
9 18	23 33 3.8329	1	3 33 37.238	44 9 46.36	4	9006 NAINI TAL	8563	8 FI	5452
9 18	23 33 43.8354	1	4 4 7.568	42 26 48.85	4	9006 NAINI TAL	8563	13 FI	6343
9 19	9 6 0.4258	1	6 36 25.932	32 14 58.31	4	9001 ORGAN PASS	11685	4 SC	4729
9 19	9 6 24.4240	1	6 42 14.996	30 46 21.13	4	9001 ORGAN PASS	11685	7 SC	4730
9 19	9 11 42.0166	1	6 41 53.968	40 43 1.05	4	9010 JUPITER	11088	2 SE	4218
9 19	9 11 58.0166	1	6 48 9.104	39 18 19.92	4	9010 JUPITER	11088	4 SE	4219
9 19	11 7 4.5752	1	5 52 53.593	31 25 25.20	4	9001 ORGAN PASS	11688	4 FI	4731
9 19	11 7 20.5735	10	6 0 32.078	30 9 34.18	4	9001 ORGAN PASS	11688	6 FI	4732
9 19	16 43 42.0484	1	3 27 30.102	48 7 53.55	4	9005 TOKYO	8916	7 BZ	4602
9 19	16 43 54.0483	1	3 39 23.875	47 24 12.32	4	9005 TOKYO	8916	10 BZ	4603
9 19	20 40 2.5350	1	6 52 17.718	35 15 59.51	4	9006 NAINI TAL	8572	2 NG	5015
9 20	0 36 32.1509	1	5 38 36.079	37 9 4.37	4	9008 SHIRAZ	14174	3 NG	4608
9 20	0 36 56.1516	1	5 51 25.388	35 5 59.04	4	9008 SHIRAZ	14174	6 NG	4609
9 20	4 28 56.5506	1	5 56 42.498	14 9 55.36	4	9004 SAN FERNAN	10507	2 RD	4707
9 20	10 11 35.4151	1	6 1 22.034	33 58 13.25	4	9001 ORGAN PASS	11702	3 FI	6488
9 20	10 12 7.4144	1	6 14 10.763	31 20 17.32	4	9001 ORGAN PASS	11702	7 FI	4734
9 20	12 1 58.9374	1	7 0 18.089	55 17 10.88	4	9012 MAUI	11319	3 FI	4867
9 20	12 2 22.9371	1	7 4 26.024	53 14 49.07	4	9012 MAUI	11319	6 FI	4868
9 20	14 5 16.2279	1	6 45 29.723	51 59 17.28	4	9012 MAUI	11323	3 FI	4869
9 20	14 5 40.2274	1	6 55 0.230	49 42 11.29	4	9012 MAUI	11323	6 FI	4870
9 20	21 45 10.6439	1	6 11 40.153	39 28 16.98	4	9006 NAINI TAL	8585	3 NG	5016
9 20	21 45 42.6447	1	6 24 6.390	36 33 12.31	4	9006 NAINI TAL	8585	7 JV	5017
9 20	23 42 13.8823	1	6 28 59.421	32 42 18.30	4	9008 SHIRAZ	14184	2 BZ	5005
9 20	23 42 21.8825	1	6 31 44.205	32 1 20.83	4	9008 SHIRAZ	14184	3 BZ	5006
9 21	3 31 57.8337	1	5 29 9.654	22 50 34.27	4	9004 SAN FERNAN	10518	3 RD	4708
9 21	3 32 5.8337	1	5 32 43.440	22 16 44.21	4	9004 SAN FERNAN	10518	4 RD	4709
9 21	7 22 1.1485	1	7 21 48.495	65 22 45.37	4	9009 CURACAO	9060	4 RD	5312
9 21	7 22 17.1478	1	7 25 32.653	63 59 1.03	4	9009 CURACAO	9060	6 RD	6500
9 21	9 17 13.5378	1	6 28 3.313	28 18 15.09	4	9001 ORGAN PASS	11718	3 FI	4735
9 21	9 17 53.5370	1	6 37 55.664	25 34 20.62	4	9001 ORGAN PASS	11718	8 FI	4736
9 21	20 50 22.7444	1	6 35 29.190	33 54 56.57	4	9006 NAINI TAL	8599	5 JV	5018
9 21	20 50 38.7446	1	6 39 21.487	32 36 30.48	4	9006 NAINI TAL	8599	7 JV	5019
9 21	22 46 27.7385	1	6 34 0.000	32 36 39.28	4	9008 SHIRAZ	14197	3 SC	5007
9 21	22 46 43.7385	1	6 38 2.769	31 19 49.71	4	9008 SHIRAZ	14197	5 SC	5008
9 21	22 52 0.4347	1	5 32 4.957	23 43 54.76	4	9006 NAINI TAL	8601	2 JV	5020
9 21	22 52 32.4356	1	5 47 4.784	21 2 23.38	4	9006 NAINI TAL	8601	6 JV	5021
9 22	0 47 44.2626	1	5 15 43.143	22 16 12.41	4	9008 SHIRAZ	14201	2 SC	5009
9 22	0 48 8.2637	1	5 27 41.613	20 17 51.29	4	9008 SHIRAZ	14201	5 SC	5010
9 22	2 34 7.5640	1	4 36 5.268	33 38 52.19	4	9004 SAN FERNAN	10532	2 RD	4710
9 22	2 34 47.5628	1	4 58 59.565	30 21 42.51	4	9004 SAN FERNAN	10532	7 RD	4711

DATE Y M D	TIME (A-I)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS.NO.	
	H	M	S		H	M	S	D	M	S					
1963	9 22	14 19	49.0377	1	7 28	4.349		21 1	57.00	4	9012 MAUI	11351	4	RD	4610
	9 22	14 20	1.0370	1	7 30	55.319		20 5	15.55	4	9012 MAUI	11351	7	RD	4611
	9 23	21 0	2.9340	1	6 31	43.957		22 46	15.62	4	9006 NAINI TAL	8624	4	JV	5457
	9 23	21 0	34.9349	1	6 38	59.239		20 23	33.74	4	9006 NAINI TAL	8624	8	JV	4627
	9 23	23 0	30.1039	1	4 51	58.519		9 3	45.95	4	9006 NAINI TAL	8631	4	KA	5189
9 23	23 0	46.1036	1	4 59	38.841		7 49	22.40	4	9006 NAINI TAL	8631	6	KA	5190	
9 24	4 45	55.3691	1	4 12	24.799		- 4 10	32.28	4	9004 SAN FERNAN	10580	3	BZ	5562	
9 24	4 46	11.3683	1	4 19	38.242		- 5 4	57.88	4	9004 SAN FERNAN	10580	5	BZ	5563	
9 27	3 55	11.5104	1	4 39	11.302		-16 32	13.00	4	9004 SAN FERNAN	10631	3	BZ	5564	
9 27	3 55	35.5100	1	4 48	14.461		-17 35	36.21	4	9004 SAN FERNAN	10631	6	BZ	5565	
9 27	9 39	57.2893	1	5 47	25.566		- 5 40	39.18	4	9001 ORGAN PASS	11806	2	FI	4737	
9 27	9 40	21.2899	1	5 54	4.069		- 6 52	50.66	4	9001 ORGAN PASS	11806	5	FI	4738	
9 27	13 36	44.8571	1	7 7	10.827		- 7 10	39.81	4	9012 MAUI	11399	3	SE	4612	
9 27	13 37	8.8300	1	7 12	15.663		- 8 26	5.24	4	9012 MAUI	11399	9	SE	4613	
9 27	21 12	43.9574	1	6 5	46.774		- 4 56	38.94	4	9006 NAINI TAL	8680	11	KA	5191	
9 28	8 47	32.6428	1	4 14	17.694		61 30	48.29	4	9007 AREQUIPA	10311	17	JV	8845	
9 28	8 54	43.2891	1	7 1	37.921		37 2	16.70	4	9007 AREQUIPA	10312	12	AC	5290	
9 28	8 54	59.2912	1	7 6	15.399		35 55	41.49	4	9007 AREQUIPA	10312	14	AC	6491	
9 28	12 33	38.3009	1	6 21	5.805		16 7	32.11	4	9012 MAUI	11409	9	SE	4614	
9 28	12 33	46.3031	1	6 22	56.345		15 24	35.67	4	9012 MAUI	11409	11	SE	4615	
9 28	14 28	17.7639	1	1 4	12.218		20 9	31.81	4	9012 MAUI	11413	4	SE	4616	
9 28	14 28	37.7645	1	1 14	56.023		19 1	11.73	4	9012 MAUI	11413	9	SE	4617	
9 28	14 34	20.6829	1	4 15	33.966		- 8 53	52.01	4	9012 MAUI	11414	4	SE	4618	
9 28	14 34	32.6827	1	4 21	8.516		- 9 52	48.55	4	9012 MAUI	11414	7	SE	4619	
9 28	22 14	26.5421	1	4 57	22.195		-21 38	37.10	4	9006 NAINI TAL	8700	6	KA	5193	
9 28	22 14	50.5425	1	5 6	15.216		-22 47	5.19	4	9006 NAINI TAL	8700	9	KA	5194	
9 29	9 42	14.6626	1	4 52	33.745		-14 29	47.77	4	9001 ORGAN PASS	11843	31	FI	4739	
9 29	11 37	13.1970	1	1 17	37.538		-10 50	24.35	4	9001 ORGAN PASS	11851	4	FI	4740	
9 29	11 37	37.1964	1	1 26	34.464		-12 14	5.29	4	9001 ORGAN PASS	11851	7	FI	4741	
9 29	11 41	14.3458	1	2 47	20.093		-24 55	15.17	4	9001 ORGAN PASS	11852	2	FI	4742	
9 29	11 41	46.3457	1	2 59	0.632		-26 40	49.98	4	9001 ORGAN PASS	11852	6	FI	4743	
9 30	4 58	3.7212	1	2 34	55.598		-28 44	8.95	4	9004 SAN FERNAN	10700	3	EM	5566	
9 30	5 0	5.8106	1	3 15	27.278		-34 21	57.77	4	9004 SAN FERNAN	10700	10	EM	5567	

DATE			TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.	
Y	M	D	H	M	S	MS	H	M	S	D	M	S					
1963	7	1	0	4	4.0352	1	22	23	23.107	35	41	10.20	4	9004	SAN FERNAN	8808	3 HC 7353
	7	1	0	4	6.0353	1	22	22	52.432	35	3	19.54	4	9004	SAN FERNAN	8808	4 HC 7354
	7	1	1	46	57.1431	1	13	58	3.155	30	13	33.96	4	9004	SAN FERNAN	8815	3 HC 7355
	7	1	1	47	1.1432	1	14	0	47.206	29	51	51.47	4	9004	SAN FERNAN	8815	4 HC 7356
	7	1	6	58	24.5513	1	23	47	35.956	79	6	30.73	4	9001	ORGAN PASS	10899	5 PG 7055
	7	1	6	58	26.5517	1	23	42	10.582	78	41	28.73	4	9001	ORGAN PASS	10899	6 PG 7056
	7	2	0	17	28.1478	1	19	56	28.731	57	39	43.57	4	9004	SAN FERNAN	8828	3 HC 7357
	7	2	0	17	36.1478	1	20	2	29.489	54	23	36.10	4	9004	SAN FERNAN	8828	7 HC 7358
	7	3	0	31	10.4105	1	15	48	54.204	50	18	50.22	4	9004	SAN FERNAN	8855	6 HC 7359
	7	3	0	31	12.4105	1	15	52	27.086	49	52	49.91	4	9004	SAN FERNAN	8855	7 HC 7360
	7	3	5	40	28.1585	1	0	43	52.794	57	43	39.31	4	9001	ORGAN PASS	10916	3 PG 7057
	7	3	5	40	32.1586	1	0	39	56.717	57	11	56.08	4	9001	ORGAN PASS	10916	4 PG 7058
7	3	5	42	27.2163	1	23	23	18.865	37	58	15.96	4	9001	ORGAN PASS	10917	3 PG 7059	
7	3	5	42	35.2150	1	23	20	0.743	36	28	33.91	4	9001	ORGAN PASS	10917	5 PG 7060	
7	3	14	21	20.9036	1	17	6	4.698	71	17	41.14	4	9005	TOKYO	8572	9 PG 7051	
7	3	14	21	22.9038	1	17	12	2.804	70	49	52.05	4	9005	TOKYO	8572	10 PG 8101	
7	3	23	0	18.6435	1	22	45	31.686	38	47	32.83	4	9004	SAN FERNAN	8876	3 VD 7361	
7	3	23	0	22.6434	1	22	43	44.101	37	50	8.22	4	9004	SAN FERNAN	8876	4 VD 7697	
7	4	0	44	11.5156	1	13	40	58.522	38	36	30.73	4	9004	SAN FERNAN	8886	5 VD 7363	
7	4	0	44	15.5159	1	13	44	51.307	38	12	31.52	4	9004	SAN FERNAN	8886	6 VD 7364	
7	4	18	2	58.1398	1	21	24	24.391	88	37	47.14	4	9006	NAINI TAL	8229	5 VD 7098	
7	5	23	28	4.9051	1	18	14	24.691	63	8	7.06	4	9004	SAN FERNAN	8924	7 HC 7365	
7	5	23	28	6.9050	1	18	17	33.653	62	25	8.62	4	9004	SAN FERNAN	8924	8 HC 7366	
7	6	6	23	8.5843	1	13	2	25.150	70	51	21.29	4	9001	ORGAN PASS	10944	2 PG 7061	
7	6	6	23	10.5842	1	13	7	28.748	70	52	43.21	4	9001	ORGAN PASS	10944	3 PG 7062	
7	8	18	58	36.0835	1	19	45	42.549	74	27	52.43	4	9008	SHIRAZ	12790	3 MY 7514	
7	9	5	21	5.9489	1	20	0	55.769	69	2	20.15	4	9001	ORGAN PASS	10989	4 PG 7063	
7	9	5	21	7.9491	1	20	1	10.253	68	22	36.64	4	9001	ORGAN PASS	10989	5 PG 7064	
7	9	19	12	19.7315	1	13	43	56.261	63	54	12.42	4	9008	SHIRAZ	12817	4 MY 7513	
7	9	22	37	7.9432	1	11	9	50.677	72	19	32.12	4	9004	SAN FERNAN	9047	5 HC 9202	
7	9	22	37	11.9432	1	11	19	45.746	72	38	56.47	4	9004	SAN FERNAN	9047	6 HC 7368	
7	9	22	40	22.4623	1	18	24	20.904	26	45	21.57	4	9004	SAN FERNAN	9048	5 HC 7369	
7	9	22	40	24.4623	1	18	25	35.878	25	55	8.38	4	9004	SAN FERNAN	9048	6 HC 7370	
7	10	5	35	32.5436	1	15	42	47.426	55	39	57.69	4	9001	ORGAN PASS	11015	6 PG 7065	
7	10	5	35	34.5426	1	15	46	26.286	55	7	57.47	4	9001	ORGAN PASS	11015	7 PG 7066	
7	11	21	24	5.4896	1	20	44	21.654	11	18	54.89	4	9004	SAN FERNAN	9083	5 HC 7371	
7	11	21	24	13.4896	1	20	43	23.930	9	40	27.55	4	9004	SAN FERNAN	9083	7 HC 7372	
7	11	23	5	19.3446	1	11	57	17.455	36	31	36.54	4	9004	SAN FERNAN	9093	4 LD 7479	
7	11	23	5	27.3449	1	12	3	38.296	35	54	27.99	4	9004	SAN FERNAN	9093	6 LD 7480	
7	12	4	19	9.8438	1	20	56	34.804	34	51	12.40	4	9001	ORGAN PASS	11050	5 PG 7067	
7	12	4	19	13.8461	1	20	55	31.352	33	40	43.46	4	9001	ORGAN PASS	11050	7 PG 7068	
7	12	18	10	12.9993	1	18	40	21.341	61	8	43.87	4	9008	SHIRAZ	12895	1 MY 7515	
7	12	18	10	14.9990	1	18	41	36.630	60	25	18.41	4	9008	SHIRAZ	12895	2 MY 7516	
7	12	21	38	18.0803	1	19	42	6.103	6	42	53.54	4	9004	SAN FERNAN	9116	3 VD 7095	
7	12	21	38	26.0800	1	19	42	29.528	4	40	23.79	4	9004	SAN FERNAN	9116	5 VD 7096	

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 14	4 47 19.3168	15 55 14.218	34 9 37.12	4	9001 ORGAN PASS	11064	4 PG	7403
7 15	15 25 11.1279	1	20 0 29.153	16 50 16.63	4	9006 NAINI TAL	8283	5 LT	7099
7 15	15 25 27.1284	1	19 59 45.330	12 19 2.01	4	9006 NAINI TAL	8283	9 LT	7100
7 15	17 8 55.9520	1	20 4 27.739	16 25 23.67	4	9008 SHIRAZ	12970	6 MY	8113
7 15	22 16 22.5577	1	11 30 41.525	33 21 20.26	4	9004 SAN FERNAN	9213	5 VD	7097
7 16	6 59 41.7040	1	21 4 13.233	48 26 44.30	4	9012 MAUI	10306	3 LT	7101
7 16	6 59 51.7041	1	21 1 6.273	46 4 35.62	4	9012 MAUI	10306	8 LT	7102
7 16	17 23 29.8734	1	18 29 36.077	3 46 19.01	4	9008 SHIRAZ	13007	4 MY	7518
7 17	2 2 23.5783	1	19 8 29.406	22 42 32.79	4	9010 JUPITER	10087	4 MY	7525
7 17	2 2 25.5786	1	19 8 43.359	21 58 19.39	4	9010 JUPITER	10087	5 MY	7526
7 17	7 14 2.1814	1	19 8 14.069	56 33 42.66	4	9012 MAUI	10337	2 LT	7103
7 17	7 14 10.1846	1	19 9 33.001	53 58 51.87	4	9012 MAUI	10337	6 VD	7104
7 19	7 43 4.0932	1	13 44 5.601	18 10 34.33	4	9012 MAUI	10349	5 VD	7105
7 19	7 43 8.0933	1	13 47 1.088	17 2 10.36	4	9012 MAUI	10349	7 VD	7106
7 20	1 2 21.9725	1	18 50 5.841	47 45 6.89	4	9009 CURACAO	8465	9 MY	7519
7 20	1 2 23.9722	1	18 50 37.705	47 8 2.90	4	9009 CURACAO	8465	10 MY	8114
7 20	2 45 56.6803	1	13 50 45.487	-17 33 1.59	4	9010 JUPITER	10158	5 LD	7477
7 20	2 46 0.6803	1	13 52 40.355	-18 20 8.81	4	9010 JUPITER	10158	6 LD	7478
7 20	7 57 29.1303	1	12 59 37.590	2 57 35.06	4	9012 MAUI	10367	4 VD	7107
7 20	7 57 33.1303	1	13 1 26.315	2 7 23.34	4	9012 MAUI	10367	6 VD	7108
7 21	6 28 10.8309	1	18 43 30.575	-10 54 11.18	4	9012 MAUI	10394	6 VD	7109
7 21	6 28 12.8309	1	18 43 53.382	-11 24 16.61	4	9012 MAUI	10394	7 VD	7110
7 22	3 9 26.2409	1	14 15 19.362	19 57 9.95	4	9001 ORGAN PASS	11137	6 PG	7404
7 22	6 42 28.4689	1	16 41 10.856	-24 33 58.30	4	9012 MAUI	10416	4 VD	7111
7 22	6 42 34.4688	1	16 44 9.495	-26 1 18.39	4	9012 MAUI	10416	7 VD	7112
7 23	6 57 19.6214	1	14 52 35.479	-37 5 1.66	4	9012 MAUI	10425	5 LD	7481
7 23	6 57 23.6212	1	14 54 34.891	-37 48 33.18	4	9012 MAUI	10425	7 LD	8108
7 24	0 16 35.0939	1	18 43 48.113	-19 39 11.98	4	9009 CURACAO	8504	7 MY	7521
7 24	0 16 41.0940	1	18 44 19.347	-20 7 0.54	4	9009 CURACAO	8504	8 MY	7522
7 24	7 6 42.6287	1	11 33 46.235	19 14 1.79	4	9012 MAUI	10444	3 PG	7405
7 24	7 11 24.1589	1	13 27 42.953	-33 28 42.32	4	9012 MAUI	10446	3 PG	7406
7 24	7 11 28.1587	1	13 29 7.600	-34 8 21.97	4	9012 MAUI	10446	5 PG	7407
7 25	0 31 40.6643	1	16 59 37.067	-43 56 29.60	4	9009 CURACAO	8519	4 MY	7523
7 25	0 31 44.6643	1	17 1 38.037	-44 36 20.46	4	9009 CURACAO	8519	6 MY	7524
7 25	9 52 18.2643	1	7 18 3.241	-25 49 45.87	4	9011 VILLA DOLO	9976	2 PG	7052
7 25	9 52 22.2641	1	7 17 12.092	-25 9 30.90	4	9011 VILLA DOLO	9976	3 PG	7053
7 28	23 48 17.5931	1	19 17 17.234	-9 44 9.50	4	9007 AREQUIPA	9561	3 MY	7510
7 29	8 59 55.2767	1	8 15 9.710	-59 30 25.20	4	9011 VILLA DOLO	10062	6 PG	7054
7 29	17 7 33.0857	1	18 35 44.561	13 16 53.29	4	9002 OLIFANTS	13673	5 LD	8106
7 30	C 3 44.8744	1	18 52 39.529	-45 45 31.85	4	9007 AREQUIPA	9583	6 MY	7511
7 30	C 3 52.8741	1	19 0 3.114	-47 15 10.97	4	9007 AREQUIPA	9583	8 MY	7512
7 30	17 23 6.8799	1	18 9 27.361	-18 5 52.47	4	9002 OLIFANTS	13694	4 LD	7469
7 30	17 23 10.8772	1	18 12 50.526	-19 21 18.01	4	9002 OLIFANTS	13694	5 LD	7470
7 30	19 35 51.7354	1	10 49 51.650	-74 37 45.89	4	9003 WOOMERA	15152	4 LD	8107
7 30	19 35 59.7351	1	10 31 52.576	-74 32 5.80	4	9003 WOOMERA	15152	6 LD	7474

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 7 31	10 42 58.8205	1	14 59 17.776	-22 40 47.65	9003 WOOMERA	15162	6 LD	7475
7 31	10 43 0.8202	1	15 0 12.823	-23 27 54.07	9003 WOOMERA	15162	7 LD	7476
7 31	17 38 40.0937	1	17 6 25.792	-61 37 24.83	9002 OLIFANTS	13716	4 LD	7471
7 31	17 38 44.0939	1	17 12 45.589	-62 35 13.66	9002 OLIFANTS	13716	5 LD	7472
8 1	10 57 56.1230	1	12 58 0.585	-39 49 48.73	9003 WOOMERA	15177	11 SJ	1158
8 1	10 57 58.1230	1	12 57 44.486	-40 28 12.46	9003 WOOMERA	15177	12 SJ	1159
8 1	17 53 46.4754	1	12 38 19.654	-75 26 41.32	9002 OLIFANTS	13735	8 LT	1154
8 1	17 53 50.4758	1	12 35 34.509	-76 19 5.95	9002 OLIFANTS	13735	9 LT	1155
8 2	11 9 37.6354	1	12 14 45.563	-4 8 39.74	9003 WOOMERA	15195	5 SJ	2482
8 2	11 9 41.6355	1	12 14 29.628	-4 49 32.05	9003 WOOMERA	15195	6 SJ	6286
8 3	10 14 20.6450	1	23 13 42.058	-0 21 36.07	9011 VILLA DOLO	10121	7 LD	263
8 3	10 14 24.6448	1	23 16 1.848	0 28 0.44	9011 VILLA DOLO	10121	8 LD	264
8 5	8 55 45.6141	1	0 26 36.226	-43 9 50.60	9011 VILLA DOLO	10144	3 LD	265
8 5	8 55 47.6142	1	0 28 53.383	-42 31 2.82	9011 VILLA DOLO	10144	4 LD	266
8 6	19 35 6.3222	1	0 19 39.279	5 51 22.04	9003 WOOMERA	15246	4 YK	9766
8 7	2 30 33.6926	1	1 27 7.036	-19 0 44.71	9002 OLIFANTS	13835	3 LT	7113
8 7	14 48 19.0700	1	5 20 38.427	-26 56 15.31	9012 MAUI	10696	4 VD	372
8 7	14 48 25.0698	1	5 22 26.161	-25 59 4.72	9012 MAUI	10696	7 VD	373
8 7	14 51 9.0196	1	6 16 15.400	1 47 14.62	9012 MAUI	10697	2 VD	374
8 7	14 51 15.0196	1	6 18 23.753	2 46 42.90	9012 MAUI	10697	6 VD	375
8 8	7 58 7.9058	1	5 15 1.521	-10 26 4.59	9007 AREQUIPA	9701	3 RD	7975
8 8	15 0 53.3956	1	3 42 27.198	-44 38 54.95	9012 MAUI	10725	4 LT	377
8 8	15 1 1.3954	1	3 45 37.814	-43 32 33.20	9012 MAUI	10725	6 LT	378
8 12	10 52 17.8480	1	6 8 35.771	13 7 54.73	9001 ORGAN PASS	11335	5 BN	1146
8 12	10 52 19.8481	1	6 9 40.368	13 25 21.98	9001 ORGAN PASS	11335	6 BN	1147
8 13	11 7 37.9020	1	6 45 44.452	34 19 31.04	9001 ORGAN PASS	11353	5 LT	1148
8 13	11 7 41.9019	1	6 48 51.868	34 45 52.14	9001 ORGAN PASS	11353	7 LT	1149
8 14	14 40 38.8650	1	23 14 14.210	-29 15 29.12	9012 MAUI	10771	5 LT	379
8 14	14 40 40.8652	1	23 14 42.693	-28 56 38.62	9012 MAUI	10771	6 LT	380
8 15	8 0 46.8518	1	3 47 34.171	38 36 38.23	9009 CURACAO	8769	4 LT	376
8 15	13 12 36.6644	1	4 46 44.656	0 22 59.30	9012 MAUI	10788	7 GL	381
8 15	13 12 40.6647	1	4 48 20.728	1 8 10.61	9012 MAUI	10788	9 GL	382
8 15	13 14 28.0837	1	5 33 22.899	19 13 55.32	9012 MAUI	10789	3 GL	383
8 15	13 14 30.0837	1	5 34 15.129	19 31 6.83	9012 MAUI	10789	4 GL	384
8 15	14 55 52.8164	1	22 9 36.682	-6 44 6.41	9012 MAUI	10792	7 PK	385
8 15	14 55 54.8164	1	22 9 44.138	-6 20 12.96	9012 MAUI	10792	8 PK	386
8 15	15 1 30.5170	1	20 55 57.368	76 25 35.93	9012 MAUI	10793	3 BN	387
8 15	15 1 32.5170	1	20 53 5.804	76 44 12.69	9012 MAUI	10793	4 BN	388
8 15	23 35 35.6043	1	3 13 41.858	-27 26 37.47	9008 SHIRAZ	13522	2 RD	7976
8 15	23 35 43.6044	1	3 17 20.999	-26 8 28.12	9008 SHIRAZ	13522	4 RD	7977
8 16	13 26 29.3552	1	3 49 18.217	4 8 33.23	9012 MAUI	10807	4 BN	587
8 16	13 26 37.3551	1	3 54 5.221	6 17 59.14	9012 MAUI	10807	8 BN	2483
8 16	15 15 20.5951	1	20 18 48.711	59 18 31.63	9012 MAUI	10815	7 SJ	1162
8 16	15 15 22.5951	1	20 17 30.534	59 36 57.97	9012 MAUI	10815	8 SJ	1163
8 16	23 50 15.1786	1	2 5 17.220	-20 59 11.48	9008 SHIRAZ	13541	3 RD	7978

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 17	3 18 13.1756	1	3 0 19.331	-27 59 22.33	9004 SAN FERNAN	9910	6 YK	9767
8 17	3 18 25.1754	1	3 5 34.316	-26 24 26.42	9004 SAN FERNAN	9910	9 YK	9768
8 17	13 41 32.1636	1	2 42 13.420	36 16 42.85	9012 MAUI	10826	2 LD	255
8 17	13 41 34.1636	1	2 44 10.557	36 54 27.71	9012 MAUI	10826	3 LD	256
8 18	3 32 45.1458	1	2 3 59.563	-24 22 24.11	9004 SAN FERNAN	9932	5 YK	9769
8 18	3 32 49.1460	1	2 6 1.338	-23 45 4.21	9004 SAN FERNAN	9932	6 YK	9770
8 18	13 56 19.4785	1	23 43 59.414	59 7 17.90	9012 MAUI	10838	4 LD	257
8 18	13 56 23.4785	1	23 46 23.320	60 19 3.63	9012 MAUI	10838	6 LD	258
8 19	3 46 59.9941	1	0 36 14.211	-19 27 26.96	9004 SAN FERNAN	9952	3 YK	9771
8 19	3 47 3.9940	1	0 37 53.462	-18 45 48.67	9004 SAN FERNAN	9952	4 YK	9772
8 19	14 10 22.4864	1	21 11 9.096	48 23 22.92	9012 MAUI	10855	7 LD	259
8 19	14 10 24.4864	1	21 10 41.244	48 53 53.15	9012 MAUI	10855	8 LD	260
8 19	14 12 43.1121	1	19 31 12.114	76 20 35.21	9012 MAUI	10856	7 LD	261
8 19	14 12 47.1122	1	19 24 6.442	76 50 46.77	9012 MAUI	10856	8 LD	262
8 20	4 2 5.7829	1	23 16 33.146	- 0 3 45.39	9004 SAN FERNAN	9968	4 YK	9773
8 20	4 2 13.7827	1	23 18 17.663	1 58 55.74	9004 SAN FERNAN	9968	6 YK	9774
8 21	2 34 42.1810	1	5 36 11.845	26 32 14.34	9004 SAN FERNAN	9992	3 YK	9775
8 21	4 16 32.1897	1	21 58 28.167	9 41 57.58	9004 SAN FERNAN	9995	4 YK	9776
8 21	4 16 36.1895	1	21 58 16.360	10 37 43.71	9004 SAN FERNAN	9995	5 YK	9777
8 22	2 46 37.2449	1	3 18 3.793	16 10 53.18	9004 SAN FERNAN	10015	3 YK	9778
8 22	2 46 47.2448	1	3 27 29.146	18 42 3.79	9004 SAN FERNAN	10015	8 YK	9779
8 22	4 31 3.7876	1	21 7 27.026	16 23 2.29	9004 SAN FERNAN	10021	6 YK	9780
8 22	4 31 7.7876	1	21 6 44.755	17 9 18.93	9004 SAN FERNAN	10021	7 YK	9781
8 23	3 0 55.2475	1	1 44 54.708	35 2 17.07	9004 SAN FERNAN	10040	5 YK	9782
8 23	3 0 59.2472	1	1 49 50.364	36 27 42.88	9004 SAN FERNAN	10040	7 YK	9783
8 23	4 48 47.8429	1	19 8 4.479	51 37 50.53	9004 SAN FERNAN	10047	2 YK	9784
8 24	3 15 37.6657	1	23 5 38.933	57 14 18.28	9004 SAN FERNAN	10067	8 YK	9792
8 24	10 10 43.3398	1	20 25 27.004	55 39 57.22	9001 ORGAN PASS	11428	6 GL	1152
8 24	10 10 45.3399	1	20 24 12.296	56 12 45.00	9001 ORGAN PASS	11428	7 GL	1153
8 25	1 46 21.3470	1	5 33 10.867	32 54 44.87	9004 SAN FERNAN	10085	3 YK	9793
8 25	1 46 25.3470	1	5 35 58.058	33 12 57.20	9004 SAN FERNAN	10085	4 YK	9794
9 8	11 25 38.4478	1	13 11 37.542	-76 43 55.00	9003 WOOMERA	15736	8 PL	3095
9 8	11 25 42.4477	1	13 21 9.589	-77 3 44.16	9003 WOOMERA	15736	9 PL	3096
9 9	9 54 10.7985	1	1 47 27.011	-60 11 35.50	9003 WOOMERA	15753	8 PL	3099
9 9	9 54 14.7985	1	1 43 38.220	-59 44 46.62	9003 WOOMERA	15753	9 PL	3100
9 9	9 56 8.7313	1	0 27 50.294	-43 16 29.42	9003 WOOMERA	15754	3 LT	3299
9 9	9 56 12.7314	1	0 26 6.727	-42 36 32.26	9003 WOOMERA	15754	4 LT	3300
9 11	10 22 13.7569	1	6 28 2.100	-84 35 57.45	9003 WOOMERA	15787	4 HC	3477
9 11	10 22 17.7568	1	6 5 16.225	-85 0 22.44	9003 WOOMERA	15787	5 HC	3478
9 11	12 8 58.7332	1	14 52 31.049	-25 49 22.66	9003 WOOMERA	15795	13 HC	3741
9 11	12 9 6.7330	1	14 56 47.815	-24 58 30.79	9003 WOOMERA	15795	15 HC	3742
9 12	10 37 22.9665	1	15 1 43.700	-74 54 50.28	9003 WOOMERA	15806	5 PL	3101
9 12	10 37 34.7178	1	15 38 19.001	-74 27 12.78	9003 WOOMERA	15806	8 PL	3102
9 12	10 40 24.1459	1	20 6 42.398	-28 22 40.99	9003 WOOMERA	15807	7 HC	3479
9 12	10 40 28.0637	1	20 8 54.985	-26 51 48.75	9003 WOOMERA	15807	9 HC	3480

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 9 13	10 52 27.6930	1	15 29 7.909	-47 21 35.62	4	9003 WOOMERA	15826	8 PL	3106
9 13	10 52 31.6928	1	15 34 0.123	-46 45 53.50	4	9003 WOOMERA	15826	10 PL	3107
9 13	10 55 15.3934	1	18 16 7.214	-3 9 53.04	4	9003 WOOMERA	15827	3 HC	28
9 13	10 55 17.3934	1	18 17 32.788	-2 33 30.59	4	9003 WOOMERA	15827	4 HC	3484
9 13	17 51 29.9084	1	20 4 37.546	-13 27 55.48	4	9002 OLIFANTS	14499	6 LT	3297
9 13	17 51 37.9097	1	20 8 35.912	-10 30 15.98	4	9002 OLIFANTS	14499	8 LT	3298
9 14	0 44 45.2857	1	15 48 27.981	-13 42 11.66	4	9011 VILLA D'LO	10520	2 MY	4606
9 14	0 45 9.2847	1	16 3 57.669	-8 55 12.24	4	9011 VILLA D'LO	10520	8 MY	4607
9 15	0 59 58.6334	1	15 52 3.427	4 19 20.28	4	9011 VILLA D'LO	10541	4 MY	4610
9 15	1 0 2.6331	1	15 53 47.600	4 57 26.02	4	9011 VILLA D'LO	10541	5 MY	4611
9 15	9 34 49.3305	1	21 24 58.941	-74 8 54.66	4	9003 WOOMERA	15861	8 HC	3487
9 15	9 34 53.3302	1	21 24 7.785	-73 6 30.17	4	9003 WOOMERA	15861	10 HC	3488
9 15	9 37 32.5872	1	21 23 11.116	-22 22 11.97	4	9003 WOOMERA	15862	3 PL	3109
9 15	9 37 34.5870	1	21 23 18.417	-21 44 45.86	4	9003 WOOMERA	15862	4 PL	3110
9 15	11 20 47.6909	1	14 43 52.049	-17 34 1.81	4	9003 WOOMERA	15869	7 HC	3489
9 15	11 22 47.4960	1	15 41 58.199	0 29 11.33	4	9003 WOOMERA	15870	6 HC	3490
9 15	11 22 51.4962	1	15 43 48.993	1 8 53.29	4	9003 WOOMERA	15870	7 HC	3491
9 15	11 25 5.0167	1	16 40 38.363	22 46 40.13	4	9003 WOOMERA	15871	7 HC	3492
9 15	11 25 9.0166	1	16 42 11.670	23 22 17.96	4	9003 WOOMERA	15871	8 HC	3493
9 20	2 25 19.8672	1	22 44 51.159	1 40 29.15	4	9001 ORGAN PASS	11693	7 LT	3291
9 20	2 25 23.8673	1	22 47 28.817	2 32 54.93	4	9001 ORGAN PASS	11693	8 LT	3292
9 20	5 49 33.2539	1	20 52 41.625	-3 23 2.26	4	9012 MAUI	11317	4 LD	7013
9 20	5 49 35.2538	1	20 54 3.600	-2 42 27.42	4	9012 MAUI	11317	5 LD	7014
9 20	14 32 6.3130	1	20 28 5.642	19 59 21.85	4	9006 NAINI TAL	8580	4 HC	3743
9 20	14 32 10.3131	1	20 31 40.849	21 33 23.99	4	9006 NAINI TAL	8580	6 HC	3744
9 20	16 15 48.4544	1	20 37 17.451	14 53 20.07	4	9008 SHIRAZ	14178	4 SJ	3525
9 20	16 15 52.4545	1	20 40 46.743	16 23 34.10	4	9008 SHIRAZ	14178	6 SJ	3526
9 20	19 44 35.2539	1	22 24 49.340	-0 8 55.78	4	9004 SAN FERNAN	10508	3 SJ	3515
9 21	2 39 10.7851	1	21 17 5.115	5 54 15.89	4	9001 ORGAN PASS	11710	5 LT	3293
9 21	2 39 16.7850	1	21 22 9.421	7 46 27.26	4	9001 ORGAN PASS	11710	8 LT	3294
9 21	6 3 34.5094	1	18 15 26.465	4 28 12.07	4	9012 MAUI	11330	2 LD	7015
9 21	6 3 40.5101	1	18 18 4.727	6 45 17.40	4	9012 MAUI	11330	5 LD	7016
9 21	14 46 22.2329	1	17 47 12.658	31 19 0.32	4	9006 NAINI TAL	8596	3 HC	3745
9 21	14 46 30.2330	1	17 49 17.618	34 31 25.92	4	9006 NAINI TAL	8596	7 HC	3746
9 21	16 30 8.5594	1	18 3 32.035	29 12 59.15	4	9008 SHIRAZ	14194	5 SJ	3527
9 21	16 30 10.5597	1	18 4 13.364	30 1 58.24	4	9008 SHIRAZ	14194	6 SJ	3528
9 21	19 58 51.2403	1	21 15 4.737	10 46 20.79	4	9004 SAN FERNAN	10525	4 SJ	3516
9 21	19 58 57.2403	1	21 20 40.647	12 38 4.82	4	9004 SAN FERNAN	10525	7 SJ	3686
9 22	6 17 58.5629	1	16 19 45.242	15 43 52.86	4	9012 MAUI	11343	3 LD	7017
9 22	6 18 8.5631	1	16 20 8.205	18 46 17.88	4	9012 MAUI	11343	7 LD	7018
9 22	15 0 45.6790	1	15 59 54.612	33 19 52.72	4	9006 NAINI TAL	8607	3 HC	3747
9 22	15 0 49.6791	1	15 59 2.194	34 28 36.28	4	9006 NAINI TAL	8607	5 HC	3748
9 22	16 4 18.0638	1	16 11 6.218	28 29 2.02	4	9008 SHIRAZ	14212	2 SJ	3529
9 23	3 7 46.4281	1	16 52 9.139	28 11 43.81	4	9001 ORGAN PASS	11742	4 LT	3295
9 23	3 7 54.4280	1	16 52 6.194	31 0 24.51	4	9001 ORGAN PASS	11742	8 LT	3296

DATE Y M D	TIME (A-I)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.
	H	M	S		H	M	S	D	M	S				
1963 9 23	13	30	36.5143	1	23	7	3.214	35	8	29.43	9006 NAINI TAL	8618	2	HC 3749
9 23	13	30	44.5146	1	23	14	49.835	36	32	37.50	9006 NAINI TAL	8618	4	HC 3750
9 24	15	26	17.4989	1	19	16	12.372	8	20	32.52	9008 SHIRAZ	14242	3	SJ 3530
9 24	15	26	25.4989	1	19	22	3.020	11	21	23.35	9008 SHIRAZ	14242	7	SJ 3531
9 25	13	57	10.4515	1	16	44	50.458	29	49	20.73	9006 NAINI TAL	8653	5	HC 3751
9 25	12	57	16.4518	1	16	45	35.311	32	6	2.71	9006 NAINI TAL	8653	8	HC 3752
9 25	20	56	47.3221	1	14	39	43.122	38	31	4.16	9004 SAN FERNAN	10606	3	SJ 3518
9 26	5	29	16.8078	1	15	28	27.701	23	33	21.12	9012 MAUI	11391	7	LD 7021
9 26	5	29	18.8078	1	15	28	25.082	24	8	41.95	9012 MAUI	11391	8	LD 7022
9 26	19	24	29.4313	1	18	23	46.683	39	19	15.05	9004 SAN FERNAN	10622	6	SJ 3519
9 26	19	24	31.4313	1	18	25	20.693	40	10	16.90	9004 SAN FERNAN	10622	7	SJ 3520
9 27	14	59	19.8694	1	6	36	17.399	32	48	25.38	9012 MAUI	11401	4	LD 7023
9 27	14	59	23.8693	1	6	37	57.626	31	11	55.64	9012 MAUI	11401	6	LD 7024
9 27	19	38	6.5698	1	16	0	42.091	27	58	59.75	9004 SAN FERNAN	10642	5	SJ 3521
9 28	1	19	56.4790	1	2	16	48.592	26	6	50.53	9008 SHIRAZ	14307	1	LT 3301
9 28	2	58	3.1602	1	9	59	38.620	51	0	48.90	9004 SAN FERNAN	10650	3	SJ 3522
9 28	15	13	45.6708	1	3	51	46.220	15	2	53.27	9012 MAUI	11417	6	LD 7025
9 29	4	59	32.9781	1	1	25	7.723	18	52	2.56	9004 SAN FERNAN	10682	3	SJ 3523
9 29	4	59	34.9781	1	1	26	56.969	18	25	12.20	9004 SAN FERNAN	10682	4	SJ 3524
9 29	22	19	10.1039	1	6	39	19.153	39	1	4.57	9006 NAINI TAL	8716	2	HC 3753
9 29	22	19	12.1040	1	6	39	40.925	38	14	27.70	9006 NAINI TAL	8716	3	HC 3754
9 30	3	28	5.6795	1	7	17	6.900	44	26	53.51	9004 SAN FERNAN	10693	3	HC 3494
9 30	3	28	11.6794	1	7	15	56.396	42	21	10.35	9004 SAN FERNAN	10693	6	HC 3495
9 30	8	48	6.0107	1	6	38	25.527	14	17	30.41	9009 CURACAO	9152	4	LT 3302

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 2	0 7 24.7115	1	21 21 2.258	55 50 0.37	4	9004 SAN FERNAN	8826	2 MY 8016
	7 2	0 7 32.7117	1	21 20 51.629	52 44 10.07	4	9004 SAN FERNAN	8826	6 MY 8017
	7 3	C 21 7.3605	1	16 27 39.408	61 54 44.75	4	9004 SAN FERNAN	8854	6 MY 8118
	7 3	C 21 9.3606	1	16 32 22.986	61 27 46.77	4	9004 SAN FERNAN	8854	7 MY 8019
	7 3	7 16 30.0812	1	13 31 49.551	61 13 46.43	4	9001 ORGAN PASS	10922	4 GL 7598
	7 3	7 16 34.0809	1	13 38 24.909	61 7 54.79	4	9001 ORGAN PASS	10922	5 GL 7599
	7 3	14 11 51.5181	1	20 2 31.255	67 27 34.41	4	9005 TOKYO	8570	7 HC 7931
	7 3	14 12 1.5184	1	20 9 19.846	63 46 24.93	4	9005 TOKYO	8570	12 HC 7932
	7 4	17 53 19.0177	1	C 20 49.152	80 38 0.65	4	9006 NAINI TAL	8228	8 HC 7933
	7 4	19 36 58.6058	1	C 39 26.524	79 35 42.62	4	9008 SHIRAZ	12716	7 HC 7939
	7 4	19 37 1.0099	1	C 31 5.182	79 16 39.74	4	9008 SHIRAZ	12716	8 HC 7940
	7 4	23 4 49.3883	1	22 10 58.747	43 4 3.10	4	9004 SAN FERNAN	8904	2 MY 8020
	7 5	23 18 34.4676	1	20 0 31.294	63 31 51.06	4	9004 SAN FERNAN	8923	2 MY 8021
	7 5	23 18 38.4677	1	20 2 8.860	62 0 0.66	4	9004 SAN FERNAN	8923	4 MY 8022
	7 6	6 13 49.0058	1	13 51 9.016	80 29 25.48	4	9001 ORGAN PASS	10943	6 GL 7600
	7 6	6 13 51.0058	1	14 2 7.524	80 29 35.81	4	9001 ORGAN PASS	10943	7 GL 7601
	7 8	3 13 57.6751	1	23 43 40.043	59 34 45.35	4	9010 JUPITER	9941	5 BA 7120
	7 8	3 14 5.6752	1	23 36 40.140	58 22 42.67	4	9010 JUPITER	9941	7 BA 7121
	7 8	18 49 10.6662	1	21 47 37.803	74 27 6.80	4	9008 SHIRAZ	12789	4 HC 7941
	7 9	5 12 40.3348	1	21 2 41.364	52 7 45.39	4	9001 ORGAN PASS	10986	3 GL 7602
	7 9	5 12 46.3345	1	21 0 55.705	50 4 53.13	4	9001 ORGAN PASS	10986	6 GL 7603
	7 10	5 26 27.0479	1	16 45 40.444	65 46 2.45	4	9001 ORGAN PASS	11014	6 GL 7604
	7 10	5 26 29.0482	1	16 49 47.217	65 11 53.48	4	9001 ORGAN PASS	11014	7 GL 7605
	7 11	3 53 23.8243	1	23 31 51.600	58 0 14.84	4	9001 ORGAN PASS	11035	5 GL 7606
	7 11	3 53 27.8238	1	23 27 52.076	57 29 18.47	4	9001 ORGAN PASS	11035	6 GL 7607
	7 11	3 56 28.1805	1	21 46 59.752	26 22 54.17	4	9001 ORGAN PASS	11036	6 GL 7608
	7 11	3 56 32.1816	1	21 45 56.085	25 39 10.64	4	9001 ORGAN PASS	11036	7 GL 7609
	7 11	21 15 30.1428	1	20 56 36.839	11 6 47.68	4	9004 SAN FERNAN	9081	3 MY 8023
	7 12	4 10 40.4410	1	21 13 40.533	30 44 8.89	4	9001 ORGAN PASS	11049	4 GL 7610
	7 12	4 10 44.4418	1	21 12 34.242	29 43 18.03	4	9001 ORGAN PASS	11049	6 GL 7611
	7 12	21 29 35.9659	1	20 6 52.255	9 55 12.74	4	9004 SAN FERNAN	9115	1 MY 8024
	7 12	21 29 43.9661	1	20 6 42.495	8 56 20.61	4	9004 SAN FERNAN	9115	2 MY 8025
	7 13	7 52 40.3554	1	22 20 35.837	77 6 52.95	4	9012 MAUI	10260	7 SU 8810
	7 13	21 43 54.7994	1	18 36 41.397	4 59 23.56	4	9004 SAN FERNAN	9147	2 MY 8026
	7 13	21 43 56.7995	1	18 37 16.240	4 23 26.74	4	9004 SAN FERNAN	9147	3 MY 8027
	7 14	2 56 0.1059	1	17 52 25.047	53 36 15.75	4	9010 JUPITER	10020	5 BA 7122
	7 14	4 39 23.0286	1	17 19 50.954	29 3 46.96	4	9001 ORGAN PASS	11063	3 HC 8115
	7 14	4 39 27.0274	1	17 23 1.373	27 20 19.11	4	9001 ORGAN PASS	11063	5 HC 8116
	7 15	4 53 57.7442	1	15 13 5.280	8 52 30.37	4	9001 ORGAN PASS	11081	6 GL 7612
	7 15	4 53 59.7441	1	15 14 51.323	8 14 18.81	4	9001 ORGAN PASS	11081	7 GL 8117
	7 15	15 17 28.4040	1	20 19 31.452	10 45 26.30	4	9006 NAINI TAL	8281	5 HC 7934
	7 15	15 17 36.4040	1	20 18 55.664	8 53 13.13	4	9006 NAINI TAL	8281	7 HC 7935
	7 15	22 13 1.0729	1	15 21 58.998	-16 11 51.14	4	9004 SAN FERNAN	9212	3 MY 8028
	7 15	22 13 5.0729	1	15 24 25.708	-16 58 31.76	4	9004 SAN FERNAN	9212	4 MY 8029
	7 16	6 49 38.6888	1	22 30 47.256	66 12 28.47	4	9012 MAUI	10303	5 SU 8121

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 7 16	6 49 40.6889	1	22 28 50.568	65 56 22.34	4	9012 MAUI	10303	6 SU	8122
7 16	6 51 48.3221	1	21 16 19.320	42 50 48.56	4	9012 MAUI	10304	4 SU	8123
7 16	6 51 52.3223	1	21 15 9.011	41 58 59.66	4	9012 MAUI	10304	6 SU	7483
7 17	1 54 31.4587	1	19 42 36.080	21 21 51.49	4	9010 JUPITER	10086	5 BA	7124
7 17	1 54 35.4588	1	19 42 32.155	20 4 41.42	4	9010 JUPITER	10086	7 BA	7125
7 19	0 40 10.2159	1	20 48 57.725	41 42 31.45	4	9009 CURACAO	8443	3 BA	7114
7 19	0 40 22.2160	1	20 47 23.682	39 14 46.18	4	9009 CURACAO	8443	9 BA	7115
7 19	7 35 5.0275	1	13 55 14.349	30 19 24.70	4	9012 MAUI	10348	3 SU	7484
7 19	7 35 15.0274	1	14 4 6.140	27 26 2.15	4	9012 MAUI	10348	8 SU	7485
7 20	2 38 30.8543	1	14 11 52.771	-18 26 17.63	4	9010 JUPITER	10156	5 DM	7126
7 20	7 50 12.2669	1	13 17 49.578	2 35 58.25	4	9012 MAUI	10365	3 SU	7486
7 20	7 50 14.2669	1	13 18 51.040	2 7 31.18	4	9012 MAUI	10365	4 SU	7487
7 22	23 50 43.0725	1	20 12 24.258	54 6 22.37	4	9009 CURACAO	8481	3 BA	7116
7 22	23 50 45.0726	1	20 11 55.036	53 43 38.52	4	9009 CURACAO	8481	4 BA	7117
7 23	1 38 54.5304	1	13 3 57.378	-2 44 29.38	4	9009 CURACAO	8488	4 BA	7118
7 23	1 39 2.5304	1	13 6 59.667	-4 42 2.81	4	9009 CURACAO	8488	6 BA	8809
7 23	6 50 20.9186	1	15 30 45.790	-38 8 54.34	4	9012 MAUI	10424	4 SU	8811
7 23	6 50 22.9185	1	15 31 47.574	-38 30 10.69	4	9012 MAUI	10424	5 SU	7489
7 28	23 42 22.5596	1	19 39 30.862	-11 34 50.00	4	9007 AREQUIPA	9560	6 HC	7936
7 28	23 42 26.5594	1	19 41 16.755	-12 24 48.11	4	9007 AREQUIPA	9560	7 HC	7937
7 30	10 21 19.9251	1	16 56 26.553	15 12 33.46	4	9003 WOOMERA	15143	2 MY	8014
7 30	10 21 21.9252	1	16 57 37.652	14 44 8.62	4	9003 WOOMERA	15143	3 MY	8015
7 30	17 16 29.7669	1	18 8 44.580	-3 49 16.15	4	9002 OLIFANTS	13693	3 MY	8011
7 30	17 16 45.7679	1	18 20 15.596	-8 34 13.96	4	9002 OLIFANTS	13693	7 MY	95
7 31	0 13 5.7881	1	18 34 13.229	-71 14 8.91	4	9007 AREQUIPA	9600	4 HC	7938
7 31	0 13 9.7882	1	18 41 27.165	-71 35 56.96	4	9007 AREQUIPA	9600	5 HC	8119
7 31	17 32 36.1911	1	17 47 7.833	-54 19 52.34	4	9002 OLIFANTS	13714	10 MY	96
8 1	10 51 46.9071	1	13 26 20.240	-33 52 45.16	4	9003 WOOMERA	15176	7 BA	8912
8 1	10 52 4.9063	1	13 26 35.605	-40 9 12.29	4	9003 WOOMERA	15176	16 BA	8913
8 3	23 21 27.8132	1	14 1 39.133	-24 1 34.74	4	9007 AREQUIPA	9665	7 DM	105
8 8	9 51 26.8714	1	6 42 24.251	12 40 15.44	4	9010 JUPITER	10506	5 PL	8892
8 8	9 51 38.8718	1	6 47 56.652	14 24 5.71	4	9010 JUPITER	10506	8 PL	1551
8 8	14 56 1.7965	1	4 0 12.563	-44 26 10.31	4	9012 MAUI	10724	6 PL	8887
8 8	14 56 5.7966	1	4 1 40.669	-43 53 50.37	4	9012 MAUI	10724	7 PL	8888
8 12	10 47 56.8979	1	6 7 40.993	10 43 5.34	4	9001 ORGAN PASS	11334	3 VD	8359
8 13	9 10 24.2173	1	22 38 43.156	-12 40 43.02	4	9009 CURACAO	8746	7 PL	8881
8 13	9 10 26.2174	1	22 39 7.068	-12 13 3.45	4	9009 CURACAO	8746	8 PL	8880
8 13	11 3 47.9001	1	6 58 6.946	33 14 16.08	4	9001 ORGAN PASS	11352	5 VD	8830
8 14	7 43 38.9760	1	5 30 32.114	28 15 51.31	4	9009 CURACAO	8757	4 PL	8882
8 14	7 43 40.9761	1	5 31 22.461	28 32 56.13	4	9009 CURACAO	8757	5 PL	107
8 14	14 36 51.2487	1	23 35 41.762	-30 2 2.06	4	9012 MAUI	10770	5 PL	9357
8 14	14 36 59.2487	1	23 37 58.338	-28 41 8.03	4	9012 MAUI	10770	9 PL	8889
8 15	13 10 C.4245	1	5 20 9.620	11 38 40.49	4	9012 MAUI	10787	4 VD	8361
8 15	13 10 16.4245	1	5 26 31.674	14 5 19.83	4	9012 MAUI	10787	8 VD	8362
8 16	15 11 53.8102	1	20 13 35.580	63 38 53.08	4	9012 MAUI	10814	2 VD	8831

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 16	15 11 55.8103	1	20 11 59.454	63 56 29.96	9012 MAUI	10814	3 VD	8832
8 17	13 37 59.2959	1	3 7 55.278	32 26 31.47	9012 MAUI	10825	4 VD	8365
8 18	13 52 23.2780	1	0 4 22.006	48 35 41.96	9012 MAUI	10837	7 VD	8366
8 18	13 52 25.2781	1	0 5 38.173	49 17 43.46	9012 MAUI	10837	8 VD	8367
8 19	3 44 12.6806	1	1 8 8.787	-14 34 21.60	9004 SAN FERNAN	9951	7 BA	8914
8 19	3 44 16.6806	1	1 10 12.874	-13 44 49.98	9004 SAN FERNAN	9951	8 BA	8915
8 19	8 55 45.7291	1	23 4 14.751	31 33 10.54	9010 JUPITER	10663	7 PL	8884
8 19	8 55 47.7291	1	23 4 42.988	32 19 20.94	9010 JUPITER	10663	8 PL	8885
8 19	14 7 23.5846	1	21 23 18.231	54 33 15.32	9012 MAUI	10854	3 VD	8368
8 19	14 7 27.5846	1	21 22 18.982	55 34 24.24	9012 MAUI	10854	5 VD	8369
8 19	17 35 9.4351	1	2 22 22.353	- 8 34 33.75	9005 TOKYO	8812	7 DM	8695
8 20	14 21 52.2538	1	20 16 57.303	46 19 27.10	9012 MAUI	10876	7 VD	8370
8 20	14 21 54.2539	1	20 16 15.332	46 42 10.32	9012 MAUI	10876	8 VD	8371
8 21	0 45 46.5350	1	20 45 41.668	24 44 23.35	9008 SHIRAZ	13621	7 DM	106
8 21	0 45 50.5349	1	20 44 48.483	25 30 13.73	9008 SHIRAZ	13621	8 DM	8697
8 21	2 29 7.3473	1	3 58 24.352	1 43 23.90	9004 SAN FERNAN	9990	3 BA	8916
8 21	2 29 27.3474	1	4 10 37.299	5 16 23.33	9004 SAN FERNAN	9990	8 BA	8917
8 21	4 13 35.7733	1	22 9 9.857	10 26 29.07	9004 SAN FERNAN	9994	4 BA	8918
8 21	23 16 9.5547	1	2 50 34.560	61 7 1.70	9008 SHIRAZ	13634	5 DM	8698
8 21	23 16 11.5548	1	2 54 24.532	61 31 40.63	9008 SHIRAZ	13634	6 DM	8699
8 22	4 28 15.9063	1	21 12 34.413	17 25 14.98	9004 SAN FERNAN	10020	7 BA	8919
8 23	23 45 8.9066	1	19 43 25.058	59 28 48.34	9008 SHIRAZ	13661	4 DM	8700
8 24	3 13 17.2506	1	23 56 54.813	63 30 5.12	9004 SAN FERNAN	10066	7 DM	8692
8 24	3 13 19.2507	1	23 59 21.774	64 12 55.15	9004 SAN FERNAN	10066	8 DM	8693
8 30	2 55 16.9523	1	17 0 38.511	64 15 42.92	9004 SAN FERNAN	10218	4 DM	8694
9 8	11 25 18.4603	1	13 24 38.689	-78 45 51.96	9003 WOOMERA	15736	3 PL	9355
9 8	11 25 22.4602	1	13 36 36.458	-79 5 46.35	9003 WOOMERA	15736	4 PL	3038
9 12	10 37 38.6473	1	15 42 35.460	-75 43 7.28	9003 WOOMERA	15806	9 PL	3103
9 12	10 37 42.5658	1	15 55 42.465	-75 28 44.31	9003 WOOMERA	15806	10 PL	3104
9 12	10 40 20.2376	1	20 10 52.010	-32 30 56.54	9003 WOOMERA	15807	5 HC	3481
9 12	10 40 31.9920	1	20 17 20.532	-27 57 58.50	9003 WOOMERA	15807	11 HC	3482
9 12	17 34 30.0311	1	22 27 22.127	-71 25 52.17	9002 OLIFANTS	14481	6 PL	3684
9 13	10 52 35.6990	1	15 25 17.041	-49 19 18.82	9003 WOOMERA	15826	12 PL	3108
9 13	10 55 19.4014	1	18 15 27.042	- 6 51 51.55	9003 WOOMERA	15827	5 HC	3485
9 13	10 55 23.4014	1	18 18 24.727	- 5 36 28.54	9003 WOOMERA	15827	7 HC	3486
9 13	23 1 38.7352	1	22 25 26.892	- 8 4 44.08	9011 VILLA DOLO	10512	1 MY	4221
9 13	23 1 50.7349	1	22 24 51.469	- 5 44 38.98	9011 VILLA DOLO	10512	4 MY	4222
9 14	23 13 22.1621	1	21 1 1.124	-53 11 32.22	9011 VILLA DOLO	10537	6 MY	4608
9 14	23 13 24.1621	1	21 1 20.866	-52 30 15.55	9011 VILLA DOLO	10537	7 MY	4609
9 15	9 37 40.5931	1	21 27 14.814	-29 39 44.02	9003 WOOMERA	15862	7 PL	3111
9 15	9 37 42.5932	1	21 27 19.051	-29 0 28.84	9003 WOOMERA	15862	8 PL	3685
9 15	23 27 33.7332	1	17 31 33.742	-50 6 39.47	9011 VILLA DOLO	10556	3 MY	4612
9 15	23 27 35.7331	1	17 34 14.961	-49 30 52.13	9011 VILLA DOLO	10556	4 MY	4613
9 16	9 51 25.5100	1	18 44 53.844	-39 7 44.53	9003 WOOMERA	15891	15 PL	2555
9 16	9 51 27.5100	1	18 46 37.020	-38 22 30.41	9003 WOOMERA	15891	16 PL	2556

DATE Y M D	TIME (A-I)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.
	H	M	S		H	M	S	D	M	S				
1963 9 17	10	5	16.3968	1	15 58	20.492		-30 38	36.28		9003 WOOMERA	15913	3 PL	2557
9 17	10	5	20.3970	1	16 2	19.680		-29 37	37.17		9003 WOOMERA	15913	5 PL	2558
9 17	17	2	7.0272	1	18 19	9.209		-37 22	30.96		9007 OLIFANTS	14579	6 PL	3105
9 18	C 0	41.4261		1	18 16	13.736		-23 51	48.93		9007 AREQUIPA	10122	4 MY	4217
9 20	11 34	10.4903		1	11 15	48.833		49 10	36.46		9001 ORGAN PASS	11705	2 MY	4204
9 20	11 34	26.4906		1	11 5	42.117		46 40	26.07		9001 ORGAN PASS	11705	6 MY	4205
9 23	6 32	16.5025		1	15 26	30.156		- 0 8	6.50		9012 MAUI	11353	4 MY	4614
9 23	6 32	18.5026		1	15 26	29.121		0 12	40.58		9012 MAUI	11353	5 MY	4615
9 23	12 28	43.7429		1	20 18	48.380		-19 34	19.53		9006 NAINI TAL	8617	7 LD	6810
9 23	13 28	47.7429		1	20 21	11.341		-18 40	43.91		9006 NAINI TAL	8617	8 LD	6811
9 23	15 15	18.4847		1	15 29	2.437		14 28	37.36		9006 NAINI TAL	8621	9 LD	6812
9 23	22 39	20.8755		1	10 54	3.517		54 1	23.52		9006 NAINI TAL	8629	5 LD	6813
9 23	22 39	24.8756		1	10 51	6.742		53 24	44.25		9006 NAINI TAL	8629	6 LD	6814
9 24	0 25	40.1485		1	9 44	22.405		26 14	49.28		9008 SHIRAZ	14235	5 MY	4952
9 24	C 25	44.1485		1	9 43	25.556		25 32	8.56		9008 SHIRAZ	14235	6 MY	4219
9 24	10 45	3.0903		1	11 4	9.871		55 44	27.98		9001 ORGAN PASS	11755	5 MY	4206
9 24	10 45	7.0904		1	11 0	36.938		55 10	51.58		9001 ORGAN PASS	11755	6 MY	4207
9 25	14 34	24.8565		1	9 24	6.000		10 6	41.70		9012 MAUI	11385	4 MY	4616
9 25	19 12	30.2844		1	21 11	46.808		29 12	7.86		9004 SAN FERNAN	10599	6 MY	4210
9 25	21 0	9.5767		1	13 45	12.054		53 25	26.78		9004 SAN FERNAN	10607	2 MY	4211
9 26	14 10	41.8951		1	15 29	29.508		- 6 48	55.31		9006 NAINI TAL	8659	4 LD	6815
9 26	14 10	45.8949		1	15 29	27.263		- 6 10	39.29		9006 NAINI TAL	8659	5 LD	6816
9 26	14 17	11.0026		1	11 35	16.945		75 23	56.04		9006 NAINI TAL	8660	4 LD	7665
9 26	14 17	27.0027		1	10 52	28.903		76 6	59.73		9006 NAINI TAL	8660	8 LD	6817
9 27	14 27	17.7875		1	14 41	6.787		20 35	59.28		9006 NAINI TAL	8674	8 LD	6818
9 27	14 27	21.7871		1	14 40	20.812		21 19	41.41		9006 NAINI TAL	8674	9 LD	7666
9 27	14 30	46.3032		1	13 5	10.579		57 56	23.03		9006 NAINI TAL	8675	5 LD	6820
9 27	14 30	54.3032		1	12 57	44.231		59 1	40.39		9006 NAINI TAL	8675	7 LD	6821
9 27	21 54	18.1369		1	8 51	27.953		16 32	54.99		9006 NAINI TAL	8684	4 LD	6822
9 27	21 54	34.1365		1	8 49	9.265		13 43	50.15		9006 NAINI TAL	8684	8 LD	6823
9 27	23 37	59.8408		1	8 51	53.393		16 52	53.30		9008 SHIRAZ	14301	3 MY	4220
9 28	19 59	8.8245		1	9 30	47.355		71 8	39.75		9004 SAN FERNAN	10668	4 MY	4212
9 28	19 59	12.8245		1	9 22	38.596		71 1	36.49		9004 SAN FERNAN	10668	5 MY	4213
9 28	22 3	37.5237		1	13 22	28.403		77 30	53.70		9006 NAINI TAL	8697	4 LD	6824
9 28	22 3	45.5237		1	12 58	34.440		77 27	8.96		9006 NAINI TAL	8697	6 LD	6825
9 29	3 18	58.2751		1	7 57	43.983		4 37	57.24		9004 SAN FERNAN	10675	4 MY	4214
9 29	3 19	2.2749		1	7 57	23.535		3 57	56.87		9004 SAN FERNAN	10675	5 MY	4215
9 30	5 20	5.5552		1	2 54	48.232		-28 39	9.77		9004 SAN FERNAN	10703	7 MY	4216
9 30	12 28	40.9799		1	11 3	1.965		73 0	19.05		9006 NAINI TAL	8724	6 LD	7667
9 30	13 28	44.9800		1	10 54	16.904		73 15	50.28		9006 NAINI TAL	8724	7 LD	6827

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 1 1	0 59 22.8719	13 38 24.945	40 3 1.48	4	9004 SAN FERVAN	8811	6 SE	4480
	7 1 1	1 18 10.5045	18 15 21.790	28 42 11.32	4	9007 AREQUIPA	9156	5 RD	1910
	7 1 1	1 18 34.5045	18 14 2.749	27 16 8.57	4	9007 AREQUIPA	9156	8 RD	1911
	7 1 1	2 47 46.5028	19 21 59.846	42 47 43.87	4	9001 ORGAN PASS	10888	3 SE	2511
	7 1 1	2 48 10.5029	19 16 17.517	41 11 56.31	4	9001 ORGAN PASS	10888	9 SE	2943
	7 1 1	3 48 19.0564	15 55 43.508	59 17 22.37	4	9010 JUPITER	9834	5 SC	3056
	7 1 1	3 48 27.0567	15 55 22.598	58 34 23.98	4	9010 JUPITER	9834	6 SC	3057
	7 1 1	3 52 2.5021	18 32 55.418	23 53 37.55	4	9001 ORGAN PASS	10889	5 LT	1013
	7 1 1	3 52 2.5035	14 10 39.493	50 14 4.92	4	9009 CURACAO	8118	5 7 BN	1022
	7 1 1	3 52 6.5022	18 32 19.958	23 34 31.72	4	9001 ORGAN PASS	10889	5 6 LT	1014
	7 1 1	3 52 6.5039	14 10 58.590	49 57 0.53	4	9009 CURACAO	8118	5 8 BN	1023
	7 1 1	3 52 10.5022	18 31 44.430	23 15 22.79	4	9001 ORGAN PASS	10889	5 7 LT	1015
	7 1 1	3 52 10.5040	14 11 17.345	49 39 49.68	4	9009 CURACAO	8118	5 9 BN	1024
	7 1 1	3 52 11.0646	15 47 12.261	36 55 34.50	4	9010 JUPITER	9835	5 SC	3058
	7 1 1	3 52 14.5023	18 31 9.317	22 56 14.46	4	9001 ORGAN PASS	10889	5 8 LT	1016
	7 1 1	3 52 14.5038	14 11 36.126	49 22 35.48	4	9009 CURACAO	8118	5 10 BN	1025
	7 1 1	3 52 18.5023	18 30 34.499	22 37 2.93	4	9001 ORGAN PASS	10889	5 9 LT	1017
	7 1 1	3 52 18.5039	14 11 54.400	49 5 13.85	4	9009 CURACAO	8118	5 11 BN	1026
	7 1 1	3 52 26.5023	18 29 25.528	21 58 37.58	4	9001 ORGAN PASS	10889	5 11 LT	1018
	7 1 1	3 52 26.5037	14 12 29.750	48 30 33.76	4	9009 CURACAO	8118	5 13 BN	1027
	7 1 1	3 52 27.0653	15 46 41.013	35 17 57.75	4	9010 JUPITER	9835	7 SC	3059
	7 1 1	3 52 34.5023	18 28 17.584	21 20 7.36	4	9001 ORGAN PASS	10889	5 13 LT	1019
	7 1 1	3 52 34.5037	14 13 4.343	47 55 41.65	4	9009 CURACAO	8118	5 15 BN	1028
	7 1 1	3 52 38.5022	18 27 43.749	21 0 49.89	4	9001 ORGAN PASS	10889	5 14 LT	1020
	7 1 1	3 52 38.5025	14 13 21.303	47 38 10.79	4	9009 CURACAO	8118	5 16 BN	1029
	7 1 1	3 52 46.5023	18 26 37.131	20 22 17.71	4	9001 ORGAN PASS	10889	5 16 DM	1021
	7 1 1	3 52 46.5036	14 13 54.186	47 3 3.22	4	9009 CURACAO	8118	5 18 BN	1030
	7 1 1	3 54 50.5046	14 20 21.195	37 36 4.68	4	9009 CURACAO	8119	3 RD	3146
	7 1 1	3 54 54.5035	14 20 30.264	37 17 52.85	4	9009 CURACAO	8119	4 RD	3948
	7 1 1	3 56 38.5007	18 0 9.412	1 49 4.55	4	9001 ORGAN PASS	10890	5 3 VD	700
	7 1 1	3 56 38.5070	14 23 31.939	28 58 55.00	4	9009 CURACAO	8120	5 6 YK	1352
	7 1 1	3 56 42.5008	17 59 46.819	1 30 25.97	4	9001 ORGAN PASS	10890	5 4 VD	701
	7 1 1	3 58 42.5064	14 23 36.931	28 39 30.86	4	9009 CURACAO	8120	5 7 YK	820
	7 1 1	3 56 46.5007	17 59 24.404	1 11 50.33	4	9001 ORGAN PASS	10890	5 5 VD	702
	7 1 1	3 56 46.5070	14 23 41.702	28 19 57.14	4	9009 CURACAO	8120	5 8 YK	1353
	7 1 1	3 56 54.5007	17 58 40.124	0 34 44.98	4	9001 ORGAN PASS	10890	5 7 VD	703
	7 1 1	3 56 54.5063	14 23 50.847	27 40 59.76	4	9009 CURACAO	8120	5 10 YK	822
	7 1 1	3 56 59.0680	15 38 3.206	8 10 2.38	4	9010 JUPITER	9836	6 BZ	3053
	7 1 1	3 57 10.5008	17 57 12.798	-0 39 4.28	4	9001 ORGAN PASS	10890	5 11 VD	704
	7 1 1	3 57 10.5069	14 24 7.796	26 22 52.86	4	9009 CURACAO	8120	5 14 YK	823
	7 1 1	3 57 15.0683	15 37 31.888	6 40 25.74	4	9010 JUPITER	9836	8 BZ	3064
	7 1 1	4 1 35.0738	15 28 15.822	-15 8 53.26	4	9010 JUPITER	9837	7 BZ	3050
	7 1 1	4 2 3.0740	15 27 20.364	-16 51 35.12	4	9010 JUPITER	9837	10 BZ	3061
	7 1 1	4 3 31.0769	15 23 47.185	-22 46 23.76	4	9010 JUPITER	9838	2 BZ	3062
	7 1 1	4 4 10.5030	14 34 23.253	28 26 12.26	4	9007 AREQUIPA	9162	5 RD	1912

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 1 4	5	14 32 33.492	24 44 28.93	9007 AREQUIPA	9162	12 RD	1913
	7 1 6	37	14 38 23.180	24 44 8.26	9001 ORGAN PASS	10896	6 SE	2944
	7 1 1	6	14 40 21.690	20 41 38.84	9001 ORGAN PASS	10896	18 SE	2512
	7 1 14	50	20 8 46.449	44 45 10.80	9006 NAINI TAL	8210	8 FI	979
	7 1 14	51	19 53 48.500	41 30 15.35	9006 NAINI TAL	8210	12 FI	980
	7 1 23	10	15 33 11.920	40 30 1.74	9004 SAN FERNAN	8824	3 RD	1475
	7 1 23	11	15 33 18.247	38 4 26.81	9004 SAN FERNAN	8824	6 RD	1476
	7 1 2	0	18 43 56.751	27 38 15.08	9010 JUPITER	9851	5 NG	3054
	7 2 2	1	18 41 32.230	26 23 57.08	9010 JUPITER	9851	7 NG	3055
	7 2 2	3	17 37 33.858	39 35 24.25	9009 CURACAO	8132	4 RD	3150
	7 2 2	4	17 35 27.160	38 13 53.84	9009 CURACAO	8132	8 RD	3151
	7 2 2	11	17 9 37.908	37 10 39.33	9007 AREQUIPA	9176	3 JV	1914
	7 2 2	13	17 1 48.089	29 36 21.98	9007 AREQUIPA	9177	3 JV	1915
	7 2 2	14	16 58 37.101	26 4 4.92	9007 AREQUIPA	9177	6 JV	6675
	7 2 4	44	17 30 36.932	37 11 52.44	9001 ORGAN PASS	10907	4 SE	2513
	7 2 4	45	17 25 54.705	34 4 1.11	9001 ORGAN PASS	10907	12 SE	2514
	7 2 4	49	16 59 35.138	10 28 46.03	9001 ORGAN PASS	10908	12 SE	2945
	7 2 15	50	18 9 58.040	30 31 57.03	9006 NAINI TAL	8214	6 FI	981
	7 2 15	50	18 6 16.003	28 23 48.55	9006 NAINI TAL	8214	9 FI	982
	7 2 18	36	16 29 35.104	34 9 46.90	9008 SHIRAZ	12667	4 FI	4562
	7 2 18	36	16 28 49.224	33 9 43.87	9008 SHIRAZ	12667	6 FI	4563
	7 2 21	21	18 15 25.605	24 38 47.27	9004 SAN FERNAN	8842	1 RD	1477
	7 2 21	21	18 11 51.708	22 36 6.91	9004 SAN FERNAN	8842	4 RD	1478
	7 2 21	24	17 49 19.018	7 7 16.55	9004 SAN FERNAN	8843	2 RD	1479
	7 2 21	25	17 46 5.293	4 31 37.10	9004 SAN FERNAN	8843	6 RD	1480
	7 3 2	54	17 30 59.146	37 11 0.31	9010 JUPITER	9871	5 NG	3053
	7 3 2	54	17 28 40.982	35 38 40.84	9010 JUPITER	9871	7 NG	6677
	7 3 3	3	15 45 3.098	44 21 33.71	9007 AREQUIPA	9192	3 JV	1917
	7 3 3	3	15 44 38.367	43 52 44.80	9007 AREQUIPA	9192	4 JV	2958
	7 3 3	6	15 34 0.912	30 40 20.08	9007 AREQUIPA	9193	2 JV	1918
	7 3 13	54	14 44 52.392	41 22 0.20	9005 TOKYO	8566	3 JV	1483
	7 3 13	54	14 46 43.602	39 10 7.51	9005 TOKYO	8566	6 JV	1484
	7 3 22	14	17 3 30.452	35 33 51.69	9004 SAN FERNAN	8872	1 RD	1481
	7 3 22	14	17 1 37.749	33 55 59.10	9004 SAN FERNAN	8872	3 RD	1482
	7 4 1	7	18 40 45.918	26 5 29.25	9009 CURACAO	8157	5 SC	3152
	7 4 1	7	18 39 51.679	25 29 28.62	9009 CURACAO	8157	7 SC	3153
	7 4 1	15	18 10 13.124	26 37 54.69	9007 AREQUIPA	9204	4 KA	1920
	7 4 1	16	18 7 42.899	23 33 29.27	9007 AREQUIPA	9204	10 KA	1921
	7 4 2	52	14 20 42.549	29 15 25.09	9009 CURACAO	8164	5 SC	3156
	7 4 4	0	14 32 18.231	27 39 15.74	9007 AREQUIPA	9210	3 KA	5467
	7 4 6	40	18 37 10.889	7 50 19.12	9012 MAUI	10051	5 SC	2724
	7 4 6	41	18 33 1.597	4 13 25.05	9012 MAUI	10051	8 SC	2725
	7 4 14	44	20 42 16.229	50 57 2.58	9006 NAINI TAL	8216	7 FI	983
	7 4 14	47	19 55 28.793	42 45 31.29	9006 NAINI TAL	8217	5 FI	984
	7 4 14	48	19 48 13.750	41 0 9.24	9006 NAINI TAL	8217	7 FI	985

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. VO.
1963	7 4 14 51 14.5140	1	19 14 26.296	30 8 1.87	9006 NAINI TAL	8218	4 FI	986
7 4 14 52 18.5171	1	1	19 4 22.366	25 46 30.92	9006 NAINI TAL	8219	2 FI	987
7 4 14 54 47.8093	1	1	18 44 33.595	15 5 45.50	9006 NAINI TAL	8219	3 FI	988
7 4 14 54 55.8093	1	1	18 43 37.561	14 30 43.38	9006 NAINI TAL	8219	3 FI	989
7 4 17 36 18.5337	1	1	14 54 28.686	42 21 40.86	9006 NAINI TAL	8226	3 FI	990
7 4 17 36 50.5319	1	1	14 56 5.414	39 22 50.74	9006 NAINI TAL	8226	5 FI	991
7 4 17 37 50.4988	1	1	18 8 36.196	34 51 27.32	9008 SHIRAZ	12711	4 BZ	4554
7 4 17 37 58.4989	1	1	18 7 15.023	34 8 35.44	9008 SHIRAZ	12711	6 BZ	4565
7 4 17 40 2.5413	1	1	15 1 41.377	21 29 56.67	9006 NAINI TAL	8227	3 FI	992
7 4 17 41 14.5033	1	1	17 40 20.155	16 0 52.34	9008 SHIRAZ	12712	4 BZ	4566
7 4 20 22 43.2959	1	1	14 5 19.602	31 1 1.27	9008 SHIRAZ	12720	6 BZ	4567
7 4 23 7 14.1256	1	1	15 26 53.032	39 15 14.98	9004 SAN FERNAN	8905	2 SE	2716
7 4 23 7 22.1254	1	1	15 27 1.528	38 27 19.99	9004 SAN FERNAN	8905	3 SE	2717
7 5 2 0 54.2499	1	1	17 24 17.447	36 41 39.57	9009 CURACAO	8176	4 SC	3157
7 5 2 1 2.2500	1	1	17 23 20.216	35 58 48.08	9009 CURACAO	8176	6 SC	3158
7 5 7 32 15.6466	1	1	17 51 21.652	25 12 52.26	9012 MAUI	10078	3 SC	2726
7 5 7 34 7.6408	1	1	17 38 41.138	14 37 11.68	9012 MAUI	10078	10 SC	2727
7 5 15 36 50.4890	1	1	21 29 30.769	68 2 39.17	9006 NAINI TAL	8232	8 FI	993
7 5 15 37 38.4909	1	1	21 1 9.383	66 49 19.48	9006 NAINI TAL	8232	11 FI	994
7 5 15 40 50.4915	1	1	19 30 29.922	58 14 12.20	9006 NAINI TAL	8233	6 FI	995
7 5 15 41 38.5043	1	1	19 13 44.912	55 16 23.76	9006 NAINI TAL	8233	9 FI	996
7 5 15 47 50.5480	1	1	17 54 32.014	24 48 42.79	9006 NAINI TAL	8234	5 SE	2437
7 5 15 48 2.5484	1	1	17 52 55.559	23 41 48.66	9006 NAINI TAL	8234	8 SE	2438
7 5 18 29 22.5044	1	1	13 57 20.612	37 56 59.53	9006 NAINI TAL	8242	5 SE	2439
7 5 18 29 54.5062	1	1	14 0 46.542	35 35 4.34	9006 NAINI TAL	8242	7 SE	2947
7 5 18 32 40.9435	1	1	14 14 0.533	23 16 59.54	9006 NAINI TAL	8243	5 SE	2441
7 5 18 34 42.5124	1	1	16 13 41.920	20 46 12.31	9008 SHIRAZ	12731	13 JV	3214
7 5 21 6 18.5342	1	1	22 11 30.164	65 33 29.26	9004 SAN FERNAN	8917	2 JV	1485
7 5 21 6 50.5346	1	1	21 52 44.942	65 4 28.97	9004 SAN FERNAN	8917	4 JV	2189
7 5 21 17 13.3674	1	1	18 14 57.817	27 1 31.50	9004 SAN FERNAN	8918	2 SC	2718
7 5 21 17 21.3676	1	1	18 13 42.653	26 19 52.13	9004 SAN FERNAN	8918	3 SC	2719
7 5 23 59 25.2519	1	1	14 14 20.292	41 12 18.16	9004 SAN FERNAN	8926	5 SC	4481
7 5 23 59 33.2523	1	1	14 15 19.842	40 33 14.35	9004 SAN FERNAN	8926	6 SC	2721
7 6 2 55 2.5090	1	1	15 29 51.739	35 37 13.11	9009 CURACAO	8189	5 RD	3148
7 6 2 55 10.5090	1	1	15 29 37.640	34 52 32.87	9009 CURACAO	8189	7 RD	3149
7 6 3 1 6.5135	1	1	15 17 2.628	0 46 1.33	9009 CURACAO	8191	17 SC	3154
7 6 3 1 14.5137	1	1	15 16 42.157	0 1 53.12	9009 CURACAO	8191	19 SC	3155
7 6 3 4 26.5132	1	1	15 24 56.361	25 17 10.94	9007 AREQUIPA	9223	5 FI	2114
7 6 5 34 43.9726	1	1	15 37 3.049	38 56 13.78	9001 ORGAN PASS	10941	2 SE	2516
7 6 5 34 59.9739	1	1	15 36 59.415	37 19 19.41	9001 ORGAN PASS	10941	4 SE	2517
7 6 19 25 40.0045	1	1	14 51 28.833	34 44 22.05	9008 SHIRAZ	12741	4 JV	3215
7 6 22 10 48.5181	1	1	16 53 49.691	33 36 41.34	9004 SAN FERNAN	8949	6 SC	2722
7 7 1 5 54.3430	1	1	17 35 15.076	17 35 56.52	9009 CURACAO	8208	5 SE	3949
7 7 3 52 14.5136	1	1	14 21 39.101	14 0 52.15	9009 CURACAO	8214	6 SE	3950
7 7 3 55 26.5116	1	1	14 20 40.846	- 0 17 14.96	9009 CURACAO	8215	21 SE	5459

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 7 14 41 54.5034	1	20 31 14.016	50 18 35.42	4	9006 NAINI TAL	8249	7 SE	2948
	7 7 14 42 26.5048	1	20 22 0.425	48 52 55.10	4	9006 NAINI TAL	8249	9 SE	2949
	7 7 14 45 6.5169	1	19 42 8.575	40 25 9.88	4	9006 NAINI TAL	8250	5 NG	2444
	7 7 14 45 54.5197	1	19 32 5.697	37 29 51.57	4	9006 NAINI TAL	8250	8 NG	2445
	7 7 17 31 2.4969	1	18 42 42.244	51 22 49.18	4	9008 SHIRAZ	12755	4 TA	3216
	7 7 17 31 10.4970	1	18 40 34.546	50 46 13.14	4	9008 SHIRAZ	12755	6 TA	4494
	7 7 17 35 30.5033	1	17 50 19.091	28 6 45.72	4	9008 SHIRAZ	12756	3 TA	3218
	7 7 17 35 38.5038	1	17 49 12.414	27 21 20.54	4	9008 SHIRAZ	12756	5 TA	3219
	7 7 20 17 51.9889	1	13 58 28.811	35 27 45.11	4	9008 SHIRAZ	12768	3 AC	6681
	7 7 22 3 12.5211	1	15 20 19.706	40 47 35.71	4	9004 SAN FERNAN	8980	4 RD	2732
	7 7 23 3 36.5212	1	15 21 5.766	38 25 51.97	4	9004 SAN FERNAN	8980	7 RD	3944
	7 8 1 57 58.5132	1	17 10 50.319	33 3 20.08	4	9009 CURACAO	8237	3 FI	2454
	7 8 1 58 10.5139	1	17 9 34.829	31 55 34.88	4	9009 CURACAO	8237	6 FI	2455
	7 8 2 2 58.5182	1	17 1 42.972	41 45 58.54	4	9007 AREQUIPA	9247	5 FI	2113
	7 8 2 3 10.5170	1	16 43 37.427	1 47 22.86	4	9009 CURACAO	8238	14 FI	2456
	7 8 2 3 14.5172	1	16 43 19.742	1 23 17.68	4	9009 CURACAO	8238	15 FI	2457
	7 8 2 3 14.5186	1	17 0 30.922	40 47 31.39	4	9007 AREQUIPA	9247	7 FI	2960
	7 8 2 7 38.5139	1	16 42 15.207	22 5 19.76	4	9007 AREQUIPA	9248	3 FI	2111
	7 8 2 7 54.5135	1	16 41 11.878	20 46 58.21	4	9007 AREQUIPA	9248	5 FI	5468
	7 8 4 37 37.3425	1	14 19 31.166	35 22 26.71	4	9010 JUPITER	9949	7 AC	250
	7 8 4 37 45.3427	1	14 20 8.636	34 43 36.95	4	9010 JUPITER	9949	8 TA	4490
	7 8 15 44 58.7520	1	17 42 48.761	20 43 17.53	4	9006 NAINI TAL	8267	8 NG	2446
	7 8 15 45 14.7523	1	17 40 54.626	19 12 7.19	4	9006 NAINI TAL	8267	10 NG	2950
	7 8 18 24 10.5015	1	16 35 52.846	61 43 14.09	4	9008 SHIRAZ	12787	4 AC	3221
	7 8 18 48 18.2015	1	17 23 14.602	10 39 0.66	4	9002 OLIFANTS	13374	5 SE	2710
	7 8 18 48 26.2034	1	17 22 55.390	10 1 33.17	4	9002 OLIFANTS	13374	6 SE	4479
	7 8 21 12 10.5191	1	18 25 1.940	34 51 32.77	4	9004 SAN FERNAN	9002	3 RD	2734
	7 8 21 12 42.5194	1	18 19 12.507	32 4 38.82	4	9004 SAN FERNAN	9002	7 RD	4484
	7 8 21 15 46.5219	1	17 52 34.579	15 46 8.06	4	9004 SAN FERNAN	9003	3 RD	2736
	7 8 21 16 10.5217	1	17 49 46.463	13 39 54.17	4	9004 SAN FERNAN	9003	7 RD	2737
	7 8 23 54 50.5133	1	14 5 22.117	44 38 8.18	4	9004 SAN FERNAN	9022	4 JV	2738
	7 8 23 55 6.5133	1	14 7 46.022	43 22 34.76	4	9004 SAN FERNAN	9022	6 JV	2739
	7 9 0 11 29.4921	1	18 52 36.749	0 19 39.11	4	9009 CURACAO	8262	2 FI	2460
	7 9 0 11 33.4917	1	18 52 23.533	0 3 15.74	4	9009 CURACAO	8262	3 FI	2451
	7 9 2 48 55.0678	1	17 1 42.784	26 38 14.38	4	9010 JUPITER	9966	7 TA	3070
	7 9 2 49 3.0679	1	17 0 54.914	25 49 7.18	4	9010 JUPITER	9966	8 TA	3071
	7 9 2 53 35.6233	1	15 19 37.218	22 34 39.42	4	9009 CURACAO	8268	4 FI	2462
	7 9 5 30 55.9312	1	15 30 12.832	39 12 6.60	4	9001 ORGAN PASS	10990	2 SE	2518
	7 9 11 35 34.9127	1	17 6 21.963	-43 17 27.23	4	9003 WDMERA	14980	13 SE	2711
	7 9 11 35 38.9131	1	17 6 14.970	-43 40 40.26	4	9003 WDMERA	14980	14 SE	2712
	7 9 19 21 19.4936	1	14 45 13.607	37 38 50.55	4	9008 SHIRAZ	12818	3 KA	3222
	7 9 19 21 27.4939	1	14 45 43.725	36 55 49.54	4	9008 SHIRAZ	12818	5 KA	3223
	7 9 22 6 25.8107	1	16 50 33.112	38 7 2.74	4	9004 SAN FERNAN	9043	4 JV	2740
	7 9 22 6 49.8108	1	16 48 13.061	35 38 7.60	4	9004 SAN FERNAN	9043	7 JV	2741
	7 9 3 40 39.8197	1	18 26 39.256	27 38 31.71	4	9001 ORGAN PASS	11006	2 SE	2519
	7 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.	MS	OBS. NO.
1963	7 10	3 41	3.8148	1					
	7 10	4 0	19.3699	1		9001 ORGAN PASS	11006	5 SE	2520
	7 10	4 0	35.3697	1		9007 AREQUIPA	9276	2 FI	2107
	7 10	20 13	27.5861	1		9007 AREQUIPA	9276	4 FI	2108
	7 10	20 13	27.5861	1		9008 SHIRAZ	12849	3 KA	3224
	7 10	20 13	51.5874	1		9008 SHIRAZ	12849	6 KA	3225
	7 11	1 51	55.3456	1		9010 JUPITER	9987	5 AC	3072
	7 11	1 52	3.3458	1		9010 JUPITER	9987	6 AC	3073
	7 11	2 11	19.5952	1		9007 AREQUIPA	9286	10 FI	2109
	7 11	2 11	35.5948	1		9007 AREQUIPA	9286	12 FI	2110
	7 11	4 33	36.2306	1		9010 JUPITER	9993	4 AC	6678
	7 11	18 25	38.9130	1		9008 SHIRAZ	12870	3 KA	3086
	7 11	18 25	46.9131	1		9008 SHIRAZ	12870	5 KA	4449
	7 11	21 9	47.5287	1		9004 SAN FERNAN	9080	5 JV	2742
	7 11	21 10	11.5286	1		9004 SAN FERNAN	9080	8 JV	2743
	7 12	0 7	53.9134	1		9009 CURACAO	8303	4 FI	2463
	7 12	0 8	1.9132	1		9009 CURACAO	8303	6 FI	2464
	7 12	0 22	23.9201	1		9007 AREQUIPA	9296	4 FI	2105
	7 12	0 22	39.9196	1		9007 AREQUIPA	9296	6 FI	2106
	7 12	0 27	24.3684	1		9011 VILLA DOLO	9801	6 SE	3367
	7 12	0 27	32.3682	1		9011 VILLA DOLO	9801	7 SE	3368
	7 12	5 27	8.5700	1		9001 ORGAN PASS	11054	3 SC	2521
	7 12	5 27	20.5708	1		9001 ORGAN PASS	11054	6 SC	2522
	7 12	11 30	58.1983	1		9003 WOOMERA	14996	11 SE	3943
	7 12	16 39	25.4206	1		9008 SHIRAZ	12889	5 TA	3087
	7 12	16 39	41.4209	1		9008 SHIRAZ	12889	7 TA	3088
	7 12	22 2	48.7772	1		9004 SAN FERNAN	9119	4 JV	2744
	7 12	22 3	4.7772	1		9004 SAN FERNAN	9119	6 JV	2745
	7 13	1 0	39.1073	1		9009 CURACAO	8324	2 FI	2465
	7 13	1 0	51.1075	1		9009 CURACAO	8324	5 FI	2466
	7 13	1 14	30.4427	1		9007 AREQUIPA	9306	3 FI	2103
	7 13	1 15	2.4585	1		9007 AREQUIPA	9306	7 FI	2104
	7 13	1 19	36.3275	1		9011 VILLA DOLO	9813	1 NG	3359
	7 13	1 19	52.3274	1		9011 VILLA DOLO	9813	3 NG	3370
	7 13	2 43	16.8354	1		9009 CURACAO	8333	12 AC	6676
	7 13	2 43	20.8354	1		9009 CURACAO	8333	13 AC	3163
	7 13	12 34	13.3550	1		9003 WOOMERA	15002	2 SE	3492
	7 13	12 34	21.3550	1		9003 WOOMERA	15002	3 SE	2715
	7 13	17 28	27.1042	1		9008 SHIRAZ	12918	4 TA	3089
	7 13	17 28	35.1047	1		9008 SHIRAZ	12918	6 TA	3090
	7 13	22 54	45.5617	1		9004 SAN FERNAN	9153	3 JV	2746
	7 13	22 55	1.5615	1		9004 SAN FERNAN	9153	7 KA	2747
	7 13	23 31	49.0954	1		9011 VILLA DOLO	9820	5 NG	3371
	7 13	23 32	13.0951	1		9011 VILLA DOLO	9820	5 NG	3372
	7 14	1 48	2.7495	1		9010 JUPITER	10017	2 KA	3074
	7 14	1 53	42.2722	1		9009 CURACAO	8350	4 FI	2458

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 14	1 54 14.2732	16 35 53.198	11 50 19.70	4	9009 CURACAD	8350	8 FI	2459
	7 14	2 7 5.8389	15 59 12.064	-15 46 23.45	4	9007 AREQUIPA	9317	2 KA	1182
	7 14	2 7 29.8381	15 57 3.821	-18 8 46.65	4	9007 AREQUIPA	9317	5 KA	1183
	7 14	4 30 38.4312	16 54 47.341	34 44 18.89	4	9001 ORGAN PASS	11062	3 RD	1893
	7 14	4 30 46.4306	16 54 0.713	33 54 45.94	4	9001 ORGAN PASS	11062	5 RD	1894
	7 14	15 36 46.2605	17 36 59.507	26 33 27.51	4	9006 NAINI TAL	8273	6 NG	2447
	7 14	15 37 2.2607	17 35 1.994	24 59 21.68	4	9006 NAINI TAL	8273	10 NG	2448
	7 14	18 21 56.1790	15 57 52.609	31 7 18.07	4	9008 SHIRAZ	12940	5 AC	3091
	7 14	21 5 45.2530	18 5 33.044	31 14 40.67	4	9004 SAN FERNAN	9175	4 RD	2748
	7 14	21 6 9.2529	18 1 47.872	29 1 42.78	4	9004 SAN FERNAN	9175	7 RD	2749
	7 15	23 47 6.2560	14 0 14.598	44 30 45.31	4	9004 SAN FERNAN	9187	5 RD	2750
	7 15	23 47 22.2563	14 2 49.673	43 18 51.34	4	9004 SAN FERNAN	9187	7 RD	2751
	7 15	2 47 1.3422	15 8 9.752	17 35 21.10	4	9009 CURACAD	8373	4 AC	3164
	7 15	2 47 13.3427	15 7 56.233	16 29 20.67	4	9009 CURACAD	8373	7 AC	3165
	7 15	3 0 43.8528	14 42 41.543	-10 40 50.73	4	9007 AREQUIPA	9332	4 KA	2191
	7 15	3 1 15.8527	14 39 48.831	-13 16 28.12	4	9007 AREQUIPA	9332	8 KA	1185
	7 15	16 29 58.3549	16 0 34.761	32 7 2.22	4	9006 NAINI TAL	8288	4 BZ	2452
	7 15	16 30 14.3558	16 0 4.402	30 28 43.81	4	9006 NAINI TAL	8288	6 BZ	2453
	7 15	16 37 28.1492	18 2 9.251	-9 8 23.29	4	9008 SHIRAZ	12964	4 AC	3092
	7 15	16 37 36.1489	18 1 32.895	-9 43 30.69	4	9008 SHIRAZ	12964	5 AC	3093
	7 15	21 59 14.8705	16 34 12.424	37 8 26.62	4	9004 SAN FERNAN	9210	4 SC	2523
	7 15	21 59 22.8710	16 33 39.485	36 18 30.52	4	9004 SAN FERNAN	9210	6 SC	2524
	7 16	0 57 42.3207	17 56 50.630	3 50 21.35	4	9009 CURACAD	8380	7 AC	3166
	7 16	0 57 50.3209	17 56 12.004	3 6 4.36	4	9009 CURACAD	8380	9 AC	3951
	7 16	1 10 35.0769	17 26 41.655	-22 29 50.20	4	9007 AREQUIPA	9345	2 KA	1186
	7 16	1 10 59.0765	17 25 45.622	-24 49 56.02	4	9007 AREQUIPA	9345	5 KA	1187
	7 16	1 17 23.5054	16 7 18.844	-36 58 26.94	4	9011 VILLA DOLO	9836	8 BZ	3066
	7 16	1 17 47.5048	16 4 37.076	-39 18 29.42	4	9011 VILLA DOLO	9836	11 SC	3067
	7 16	3 39 4.3429	14 16 43.090	22 26 14.27	4	9009 CURACAD	8390	9 AC	3167
	7 16	6 24 56.6550	18 34 38.697	15 4 7.75	4	9012 MAJI	10301	3 KA	3178
	7 16	6 25 28.6556	18 31 16.624	12 25 44.91	4	9012 MAJI	10301	5 KA	3179
	7 16	9 8 29.1556	14 35 30.769	25 48 39.94	4	9012 MAJI	10315	6 FI	2752
	7 16	17 25 15.6086	17 25 14.925	24 55 49.31	4	9008 SHIRAZ	13008	4 AC	4450
	7 16	17 25 23.6131	17 24 21.589	24 7 51.23	4	9008 SHIRAZ	13008	6 AC	3095
	7 16	22 51 46.9267	15 3 34.382	41 4 50.33	4	9004 SAN FERNAN	9246	3 SE	2946
	7 16	22 52 2.9270	15 4 40.774	39 35 15.84	4	9004 SAN FERNAN	9246	5 SE	2526
	7 16	23 27 54.3347	18 49 45.406	-39 8 33.96	4	9011 VILLA DOLO	9844	5 SC	3196
	7 16	23 28 10.3345	18 51 20.607	-40 23 6.10	4	9011 VILLA DOLO	9844	7 SC	3197
	7 17	1 44 22.8888	18 8 54.247	21 18 1.23	4	9010 JUPITER	10084	7 KA	3075
	7 17	1 44 30.8889	18 7 53.820	20 34 20.93	4	9010 JUPITER	10084	8 KA	3076
	7 17	2 3 9.7225	15 53 45.438	-13 52 20.24	4	9007 AREQUIPA	9359	2 KA	1188
	7 17	2 3 25.7220	15 52 19.817	-15 26 17.19	4	9007 AREQUIPA	9359	4 KA	1189
	7 17	2 9 54.6587	14 53 5.468	-24 18 52.40	4	9011 VILLA DOLO	9847	4 SC	3198
	7 17	2 10 2.6587	14 51 59.332	-24 59 6.25	4	9011 VILLA DOLO	9847	5 SC	3199
	7 17	4 26 46.6581	14 16 38.755	32 16 11.73	4	9010 JUPITER	10090	6 EM	3079

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 17	21 1 34.2809	18 5 4.960	34 41 29.51	9004 SAN FERNAN	9271	4 BZ	4482
	7 17	21 1 38.2809	18 4 24.918	34 19 5.69	9004 SAN FERNAN	9271	5 BZ	4483
	7 18	0 2 8.0065	18 43 55.324	- 6 39 55.51	9009 CURACAO	8418	8 AC	3168
	7 18	0 2 12.0065	18 43 42.832	- 6 57 35.15	9009 CURACAO	8418	9 AC	3169
	7 18	0 13 42.8715	18 33 39.985	-22 48 27.09	9007 AREQUIPA	9370	2 KA	2961
	7 18	0 14 6.8716	18 34 1.020	-24 45 38.03	9007 AREQUIPA	9370	5 KA	2192
	7 18	0 20 9.1159	17 39 23.258	-37 33 30.31	9011 VILLA DOLO	9857	4 NG	3200
	7 18	0 20 33.1150	17 39 32.032	-39 50 22.27	9011 VILLA DOLO	9857	7 NG	3201
	7 18	2 37 44.3750	16 39 40.788	28 2 36.35	9010 JUPITER	10114	5 KA	3077
	7 18	2 37 52.3754	16 39 5.412	27 12 55.55	9010 JUPITER	10114	6 KA	3960
	7 18	2 43 3.9932	15 4 2.852	18 49 44.49	9009 CURACAO	8427	3 AC	3170
	7 18	2 43 15.9926	15 3 53.424	17 45 9.47	9009 CURACAO	8427	6 AC	3171
	7 18	2 55 41.2011	14 46 40.171	- 3 40 45.23	9007 AREQUIPA	9374	3 KA	1190
	7 18	2 55 49.2009	14 46 3.274	- 4 19 17.93	9007 AREQUIPA	9374	4 KA	1191
	7 18	3 3 55.4306	14 8 39.548	-18 53 15.85	9011 VILLA DOLO	9859	2 NG	3202
	7 18	3 4 11.4303	14 6 41.627	-19 55 56.83	9011 VILLA DOLO	9859	4 NG	3203
	7 19	0 53 47.4673	17 52 36.324	5 25 28.68	9009 CURACAO	8447	6 AC	3172
	7 19	0 53 55.4677	17 51 56.644	4 40 29.05	9009 CURACAO	8447	8 AC	3173
	7 19	1 6 23.5464	17 21 16.497	-19 30 40.93	9007 AREQUIPA	9388	2 KA	1192
	7 19	1 6 39.5459	17 20 32.236	-21 5 13.06	9007 AREQUIPA	9388	4 KA	1193
	7 19	1 13 23.5956	16 2 2.591	-34 38 38.10	9011 VILLA DOLO	9875	3 AC	3204
	7 19	1 13 39.5950	16 0 11.407	-36 11 35.90	9011 VILLA DOLO	9875	5 SE	4493
	7 19	6 11 36.9312	14 8 38.479	40 25 54.54	9001 ORGAN PASS	11097	3 RD	1895
	7 19	6 11 52.9307	14 10 41.095	39 14 1.36	9001 ORGAN PASS	11097	5 RD	1896
	7 19	17 18 38.0558	17 41 23.065	42 48 34.50	9008 SHIRAZ	13064	4 KA	3937
	7 19	17 18 42.0559	17 40 44.551	42 25 40.49	9008 SHIRAZ	13064	5 KA	3096
	7 19	22 47 48.5403	14 57 55.510	41 58 32.06	9004 SAN FERNAN	9337	2 FI	2087
	7 19	22 48 12.5405	14 59 53.500	39 46 54.19	9004 SAN FERNAN	9337	5 FI	2088
	7 19	23 24 51.3818	18 51 15.271	-42 47 46.86	9011 VILLA DOLO	9890	1 SE	3205
	7 20	1 45 44.1432	16 25 28.141	19 8 19.21	9009 CURACAO	8469	4 AC	3174
	7 20	1 46 C.1435	16 24 25.060	17 30 15.90	9009 CURACAO	8469	6 AC	3175
	7 20	1 59 39.2754	15 46 21.456	-14 27 10.62	9007 AREQUIPA	9405	5 KA	1194
	7 20	1 59 55.2755	15 44 53.343	-15 59 28.81	9007 AREQUIPA	9405	7 KA	1195
	7 20	4 22 41.1503	14 14 2.216	33 24 21.27	9010 JUPITER	10161	7 RD	3961
	7 20	20 58 33.3251	17 52 55.288	31 31 16.03	9004 SAN FERNAN	9359	5 TA	2527
	7 20	20 58 49.3250	17 50 36.307	29 59 6.18	9004 SAN FERNAN	9359	7 TA	2528
	7 20	23 40 1.5229	14 3 1.448	41 30 19.25	9004 SAN FERNAN	9369	5 TA	2952
	7 20	23 40 9.5230	14 4 14.184	40 55 48.39	9004 SAN FERNAN	9369	6 TA	2953
	7 21	0 5 30.5267	18 31 47.795	- 1 10 9.37	9007 AREQUIPA	9420	8 KA	1196
	7 21	0 8 26.5270	18 30 15.069	-15 14 11.75	9007 AREQUIPA	9421	4 KA	2193
	7 21	0 8 50.5270	18 30 15.532	-17 12 57.82	9007 AREQUIPA	9421	7 KA	2194
	7 21	8 7 26.1361	15 34 36.517	28 57 18.65	9012 MAUI	10399	3 FI	2753
	7 21	8 7 58.1364	15 34 11.650	25 50 32.04	9012 MAUI	10399	7 FI	2754
	7 21	16 25 30.5239	18 21 26.828	13 16 42.72	9008 SHIRAZ	13101	8 KA	3098
	7 21	21 50 51.2509	16 22 2.168	43 22 21.16	9004 SAN FERNAN	9378	3 TA	2529
	7 21							

DATE		TIME (A-1)		RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS.NO.				
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S						
1963	7	21	21	51	15.2506	1	16	20	58.576	40	53	31.09	4	9004	SAN FERNAN	9378	6	TA	2530
	7	22	0	49	38.5309	1	17	49	11.420	8	24	17.18	4	9009	CJACAO	8472	6	AC	3176
	7	22	0	49	54.5309	1	17	47	49.694	6	52	34.29	4	9009	CJACAO	8472	10	AC	3177
	7	22	0	57	46.5320	1	17	29	43.381	8	45	40.76	4	9007	AREQUIPA	9440	4	JV	3945
	7	22	0	57	54.5430	1	16	46	53.452	25	21	13.49	4	9011	VILLA DOLO	9899	3	SE	3206
7	22	0	58	2.5428	1	16	46	27.968	24	51	17.68	4	9011	VILLA DOLO	9899	4	SE	3207	
7	22	0	58	42.5310	1	17	26	45.716	3	44	36.17	4	9007	AREQUIPA	9440	11	JV	2973	
7	22	1	1	22.5264	1	17	18	30.640	-11	31	50.34	4	9007	AREQUIPA	9441	4	JV	3495	
7	22	1	1	38.5534	1	16	34	28.552	9	47	51.08	4	9011	VILLA DOLO	9900	6	SE	3208	
7	22	1	1	54.5258	1	17	16	51.793	-14	41	28.03	4	9007	AREQUIPA	9441	8	JV	2975	
7	22	1	1	54.5536	1	16	33	31.350	8	33	8.83	4	9011	VILLA DOLO	9900	8	SE	3209	
7	22	1	3	46.5305	1	17	10	58.694	-25	46	43.33	4	9007	AREQUIPA	9442	2	JV	2976	
7	22	1	4	18.5290	1	17	9	14.318	-28	54	35.66	4	9007	AREQUIPA	9442	6	JV	2977	
7	22	1	8	10.5311	1	16	5	9.863	-25	12	20.45	4	9011	VILLA DOLO	9901	2	SE	3210	
7	22	1	8	34.5304	1	16	2	42.315	-27	31	48.61	4	9011	VILLA DOLO	9901	5	SE	3211	
7	22	3	25	10.5139	1	18	15	5.482	34	37	9.62	4	9001	ORGAN PASS	11138	2	RD	1898	
7	22	3	26	2.5139	1	18	6	49.520	29	49	2.19	4	9001	ORGAN PASS	11138	15	RD	1899	
7	22	3	29	54.5117	1	17	39	9.860	8	15	14.42	4	9001	ORGAN PASS	11139	5	KA	1900	
7	22	3	30	30.5116	1	17	35	49.239	5	2	55.11	4	9001	ORGAN PASS	11139	14	KA	1901	
7	22	17	7	30.5263	1	13	5	24.092	67	0	9.05	4	9006	NAINI TAL	8324	6	BZ	2449	
7	22	17	8	10.5400	1	19	57	34.160	74	13	2.41	4	9008	SHIRAZ	13125	3	JV	3226	
7	22	17	8	18.5270	1	13	24	36.334	64	8	38.98	4	9006	NAINI TAL	8324	9	BZ	2450	
7	22	17	13	6.5413	1	14	25	25.255	43	2	56.45	4	9006	NAINI TAL	8325	3	BZ	2451	
7	22	17	15	14.5490	1	14	37	17.099	32	37	19.80	4	9006	NAINI TAL	8326	2	TA	2955	
7	22	17	15	30.5500	1	14	38	25.624	31	18	43.76	4	9006	NAINI TAL	8326	3	TA	2541	
7	22	17	16	50.5596	1	17	18	0.966	32	2	55.43	4	9008	SHIRAZ	13127	2	JV	3971	
7	22	17	17	6.5601	1	17	16	15.618	30	25	24.64	4	9008	SHIRAZ	13127	4	JV	3228	
7	22	17	17	38.5563	1	14	45	29.202	20	57	43.59	4	9006	NAINI TAL	8327	2	JV	2962	
7	22	17	17	54.5568	1	14	46	9.368	19	41	41.49	4	9006	NAINI TAL	8327	3	JV	2963	
7	22	22	43	39.8681	1	14	51	24.774	43	41	45.79	4	9004	SAN FERNAN	9408	6	TA	2531	
7	22	23	19	39.5606	1	18	40	28.877	-36	8	41.01	4	9011	VILLA DOLO	9916	3	SE	3212	
7	22	23	19	55.5607	1	18	41	40.937	-37	26	47.33	4	9011	VILLA DOLO	9916	5	SE	3213	
7	23	1	37	14.5177	1	17	56	37.598	21	7	38.15	4	9010	JUPITER	10193	4	RD	3962	
7	23	1	37	38.5187	1	17	53	48.934	18	51	14.01	4	9010	JUPITER	10193	7	RD	3963	
7	23	1	43	58.5275	1	16	11	6.135	7	30	16.80	4	9009	CURACAO	8489	5	SE	3359	
7	23	1	44	2.5283	1	16	10	52.362	7	6	8.07	4	9009	CJACAO	8489	6	SE	3360	
7	23	1	44	10.5361	1	16	29	45.589	43	51	51.85	4	9007	AREQUIPA	9460	3	KA	1922	
7	23	1	46	22.5320	1	16	2	42.754	-6	30	55.23	4	9009	CURACAO	8490	5	NG	3361	
7	23	1	46	34.5320	1	16	2	0.109	-7	37	51.30	4	9009	CJACAO	8490	8	SC	3362	
7	23	1	47	30.5372	1	16	17	14.763	30	31	37.90	4	9007	AREQUIPA	9461	3	KA	1923	
7	23	1	47	46.5370	1	16	16	14.835	29	20	49.24	4	9007	AREQUIPA	9461	5	KA	1924	
7	23	1	50	46.5311	1	15	46	4.651	-28	30	11.66	4	9009	CURACAO	8491	2	SC	3363	
7	23	1	50	58.5317	1	16	3	46.043	13	49	15.71	4	9007	AREQUIPA	9462	4	KA	1925	
7	23	1	51	2.5307	1	15	44	58.152	-29	39	23.95	4	9009	CJACAO	8491	6	SC	3364	
7	23	1	51	14.5317	1	16	2	40.098	12	25	13.78	4	9007	AREQUIPA	9462	6	KA	1926	

DATE Y M D	TIME (A-I)			RMS MS	R.A.(1950.0)			DECL.(1950.0)			RMS S	STATION	FRAME NO.	MS	OBS.NO.	
	H	M	S		H	M	S	D	M	S						
1963	7 23	1 54	10.5356	1	15 33	51.559		15 42	0.63		4	9011	VILLA DOLO	9921	2 SC	2728
	7 23	1 54	26.5274	1	15 48	14.899		- 5 16	14.21		4	9007	AREQUIPA	9463	3 EM	3380
	7 23	1 54	58.5268	1	15 45	33.635		- 8 18	37.48		4	9007	AREQUIPA	9463	7 EM	3381
	7 23	1 55	6.5354	1	15 30	6.153		11 49	39.28		4	9011	VILLA DOLO	9921	9 SC	2729
	7 23	2 2	35.0786	1	14 46	45.108		-23 0	46.97		4	9011	VILLA DOLO	9923	7 FI	2755
	7 23	2 2	59.0785	1	14 43	26.238		-24 55	12.92		4	9011	VILLA DOLO	9923	10 FI	2756
	7 23	7 3	6.5172	1	18 19	45.614		64 43	37.98		4	9012	MAJI	10426	4 KA	3180
	7 23	7 3	54.5178	1	18 6	13.534		61 24	12.86		4	9012	MAJI	10426	10 KA	3181
	7 23	7 10	22.1211	1	17 7	7.375		26 50	11.41		4	9012	MAJI	10427	3 KA	4492
	7 23	7 10	54.1210	1	17 4	11.488		23 34	26.45		4	9012	MAJI	10427	7 KA	3183
7 23	18 1	22.5097	1	14 39	40.779		80 19	7.05		4	9008	SHIRAZ	13140	6 JV	3972	
7 23	18 5	22.5179	1	15 30	18.803		61 41	33.99		4	9008	SHIRAZ	13141	3 JV	3230	
7 23	18 10	42.5295	1	15 38	57.597		31 18	10.63		4	9008	SHIRAZ	13142	5 BZ	3108	
7 23	18 10	50.5300	1	15 38	58.350		30 30	58.76		4	9008	SHIRAZ	13142	6 BZ	3109	
7 23	20 49	54.5431	1	18 54	25.420		58 49	48.10		4	9004	SAN FERNAN	9427	3 TA	2532	
7 23	20 50	18.5429	1	18 46	7.508		56 57	31.63		4	9004	SAN FERNAN	9427	6 TA	2533	
7 23	20 54	36.8060	1	17 49	3.398		33 33	48.28		4	9004	SAN FERNAN	9428	2 TA	2534	
7 23	20 55	0.8060	1	17 45	38.267		31 13	28.21		4	9004	SAN FERNAN	9428	5 TA	2535	
7 23	23 36	4.7621	1	14 1	4.130		41 47	3.49		4	9004	SAN FERNAN	9436	7 TA	2536	
7 23	23 58	34.5457	1	18 29	0.418		-23 44	14.69		4	9009	CURACAO	8500	5 SC	3952	
7 23	23 58	42.5456	1	18 28	42.315		-24 18	33.29		4	9009	CURACAO	8500	6 SC	3365	
7 24	0 1	6.5295	1	18 30	10.590		2 20	15.75		4	9007	AREQUIPA	9480	4 EM	3382	
7 24	0 1	14.5449	1	18 23	49.818		-34 41	13.24		4	9009	CURACAO	8501	6 SC	3953	
7 24	0 1	30.5296	1	18 29	39.539		0 29	14.39		4	9007	AREQUIPA	9480	7 EM	3383	
7 24	0 1	38.5448	1	18 23	12.936		-36 14	19.61		4	9009	CURACAO	8501	9 SE	3954	
7 24	0 4	34.5263	1	18 27	12.882		-14 27	26.92		4	9007	AREQUIPA	9481	3 EM	3384	
7 24	0 4	42.5395	1	17 37	22.082		5 27	59.25		4	9011	VILLA DOLO	9940	4 FI	2757	
7 24	0 5	6.5256	1	18 27	4.730		-17 9	9.81		4	9007	AREQUIPA	9481	7 EM	3385	
7 24	0 5	6.5393	1	17 36	41.576		3 38	1.21		4	9011	VILLA DOLO	9940	7 FI	2758	
7 24	0 6	42.5230	1	18 27	16.790		-25 17	45.08		4	9007	AREQUIPA	9482	3 EM	3955	
7 24	0 6	58.5227	1	18 27	24.286		-26 39	14.56		4	9007	AREQUIPA	9482	5 EM	3387	
7 24	0 12	34.5303	1	17 26	15.779		-36 45	7.14		4	9011	VILLA DOLO	9941	3 FI	2759	
7 24	0 12	58.5291	1	17 25	48.406		-39 4	37.33		4	9011	VILLA DOLO	9941	6 FI	2760	
7 24	2 35	10.5310	1	14 56	43.410		20 57	24.81		4	9009	CURACAO	8508	3 SE	3386	
7 24	2 37	34.5326	1	14 55	38.453		8 45	5.78		4	9009	CURACAO	8509	4 NG	3128	
7 24	2 37	54.5325	1	14 55	20.682		7 5	30.00		4	9009	CURACAO	8509	9 NG	3129	
7 24	2 38	34.5322	1	14 54	38.867		3 48	42.93		4	9009	CURACAO	8509	19 NG	3130	
7 24	2 41	14.5322	1	14 50	33.632		- 8 37	19.15		4	9009	CURACAO	8510	5 KA	1487	
7 24	2 41	46.5320	1	14 49	30.011		-10 57	17.33		4	9009	CURACAO	8510	13 KA	1488	
7 24	2 42	6.5321	1	14 48	47.746		-12 23	5.44		4	9009	CURACAO	8510	18 KA	1489	
7 24	2 57	41.4126	1	14 1	24.749		-21 49	59.74		4	9011	VILLA DOLO	9946	3 FI	2761	
7 24	2 58	5.4129	1	13 58	19.195		-23 17	13.57		4	9011	VILLA DOLO	9946	6 FI	2762	
7 24	8 3	25.5812	1	15 28	46.872		30 26	27.45		4	9012	MAJI	10448	3 JV	3184	
7 24	8 3	49.5812	1	15 28	42.332		28 9	0.15		4	9012	MAJI	10448	6 JV	3185	
7 24	16 18	26.5615	1	15 41	2.648		34 4	58.71		4	9006	NAINI TAL	8376	5 JV	3434	

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 24	16 18 58.5276	1 15 41 6.804	30 55 44.74	4	9006 NAINI TAL	8376	7 JV	2955
	7 24	16 29 22.5636	1 15 30 32.661	-20 17 12.10	4	9006 NAINI TAL	8378	2 JV	2966
	7 24	16 29 38.5636	1 15 30 2.350	-21 15 18.98	4	9006 NAINI TAL	8378	3 JV	2967
	7 24	21 47 51.6331	1 16 12 54.226	38 53 6.08	4	9004 SAN FERNAN	9450	2 TA	2537
	7 24	21 48 15.6331	1 16 12 16.397	36 25 3.12	4	9004 SAN FERNAN	9450	5 TA	2954
	7 25	0 53 50.5337	1 17 9 26.752	-33 5 53.50	4	9009 CJRACAD	8520	2 BZ	3141
	7 25	0 54 22.5337	1 17 7 24.406	-35 25 14.01	4	9009 CURACAD	8520	10 BZ	3142
	7 25	0 55 10.5334	1 17 4 20.377	-38 46 15.15	4	9009 CURACAD	8520	22 RD	3143
	7 25	3 19 26.5233	1 18 32 51.824	46 22 5.15	4	9001 ORGAN PASS	11190	9 KA	1904
	7 25	3 19 30.9825	1 14 46 41.588	49 48 46.38	4	9010 JUPITER	10203	6 RD	3964
	7 25	3 19 38.9829	1 14 47 31.276	49 8 6.68	4	9010 JUPITER	10203	7 RD	3965
	7 25	3 19 54.5347	1 13 38 6.073	52 0 4.95	4	9009 CJRACAD	8523	8 EM	3373
	7 25	3 19 58.5235	1 18 25 53.441	43 35 45.25	4	9001 ORGAN PASS	11190	17 KA	1905
	7 25	3 20 10.5355	1 13 40 27.624	51 5 43.70	4	9009 CURACAD	8523	10 EM	3374
	7 25	3 23 38.5385	1 14 2 49.511	38 26 59.44	4	9009 CURACAD	8524	2 NG	3946
	7 25	3 23 46.5260	1 17 49 43.666	22 18 59.66	4	9001 ORGAN PASS	11191	6 RD	1906
	7 25	3 24 26.5261	1 17 45 4.524	18 30 11.58	4	9001 ORGAN PASS	11191	16 RD	1907
	7 25	3 24 42.5395	1 14 7 18.957	34 18 57.39	4	9009 CURACAD	8524	10 NG	3132
	7 25	3 25 7.2558	1 15 5 14.212	20 17 3.14	4	9010 JUPITER	10204	6 KA	3966
	7 25	3 25 15.2564	1 15 5 24.567	19 35 31.88	4	9010 JUPITER	10204	7 KA	3967
	7 25	3 28 18.5418	1 14 16 55.624	20 0 51.05	4	9009 CURACAD	8525	2 NG	3133
	7 25	3 28 22.5266	1 17 23 23.017	-2 43 49.49	4	9001 ORGAN PASS	11192	3 RD	1908
	7 25	3 28 54.5264	1 17 20 59.107	-5 21 14.18	4	9001 ORGAN PASS	11192	10 RD	1909
	7 25	3 29 14.5422	1 14 18 18.408	16 18 14.14	4	9009 CURACAD	8525	9 NG	3134
	7 25	3 30 10.5443	1 14 19 18.206	12 37 31.04	4	9009 CURACAD	8525	16 MJ	3135
	7 25	6 2 58.5179	1 20 44 7.431	60 53 16.13	4	9012 MAUI	10464	4 JV	3186
	7 25	6 3 22.5182	1 20 35 16.282	59 57 31.75	4	9012 MAUI	10464	7 JV	3969
	7 25	6 7 34.5149	1 19 23 0.708	46 36 36.14	4	9012 MAUI	10465	6 JV	3188
	7 25	6 7 54.5183	1 19 18 40.583	45 17 18.90	4	9012 MAUI	10465	11 JV	3189
	7 25	6 12 19.5195	1 18 34 35.198	24 52 16.22	4	9012 MAUI	10466	10 JV	3190
	7 25	6 12 43.5192	1 18 31 32.259	22 48 43.16	4	9012 MAUI	10466	16 JV	3970
	7 25	6 14 49.6576	1 18 17 21.153	11 43 24.08	4	9012 MAUI	10467	3 JV	3192
	7 25	6 15 5.6572	1 18 15 44.697	10 18 2.18	4	9012 MAUI	10467	5 JV	3193
	7 25	8 55 44.2821	1 14 25 25.664	32 1 59.73	4	9012 MAUI	10473	2 JV	3194
	7 25	8 55 52.2730	1 14 25 55.834	31 25 39.16	4	9012 MAUI	10473	3 JV	3195
	7 25	17 3 2.5026	1 21 12 25.212	78 44 13.92	4	9008 SHIRAZ	13186	5 KA	3111
	7 25	17 3 14.5364	1 20 48 51.290	67 33 0.70	4	9006 NAINI TAL	8396	3 JV	2968
	7 25	17 3 18.5028	1 20 53 22.518	78 18 48.40	4	9008 SHIRAZ	13186	7 KA	3112
	7 25	17 3 46.5385	1 13 3 28.209	65 50 7.87	4	9006 NAINI TAL	8396	5 JV	2969
	7 25	17 7 26.5109	1 18 11 15.596	64 7 8.73	4	9008 SHIRAZ	13187	5 KA	3938
	7 25	17 7 42.5118	1 18 6 21.024	62 52 10.63	4	9008 SHIRAZ	13187	7 KA	3110
	7 25	17 7 46.5444	1 14 9 28.794	49 46 40.09	4	9006 NAINI TAL	8397	2 JV	2970
	7 25	17 8 34.5483	1 14 16 51.788	46 7 14.80	4	9006 NAINI TAL	8397	5 JV	2971
	7 25	17 10 42.5492	1 14 31 23.968	36 2 17.48	4	9006 NAINI TAL	8398	2 BZ	4485
	7 25	17 11 50.5186	1 17 19 9.234	40 21 19.29	4	9008 SHIRAZ	13188	4 KA	3106

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 25	17 12 14.5193	17 16 16.718	37 56 53.16	9008 SHIRAZ	13188	7 KA	3107
	7 25	17 12 18.5488	14 38 47.090	28 22 47.53	9006 NAINI TAL	8399	2 BZ	4486
	7 25	17 13 38.5555	14 43 18.163	22 4 36.50	9006 NAINI TAL	8399	7 BZ	4487
	7 25	17 14 40.0337	17 1 54.807	23 5 14.84	9008 SHIRAZ	13189	4 TA	3104
	7 25	17 14 48.0336	17 1 14.532	22 16 12.55	9008 SHIRAZ	13189	6 TA	3105
	7 25	22 40 48.4571	14 53 0.646	38 32 42.64	9004 SAN FERNAN	9478	3 TA	2538
	7 25	22 41 12.4571	14 55 5.743	36 26 45.35	9004 SAN FERNAN	9478	6 TA	2539
	7 25	23 16 25.7466	18 39 27.573	-38 56 45.86	9011 VILLA DOLO	9982	2 NG	2730
	7 25	23 16 57.7458	18 42 0.487	-41 35 28.50	9011 VILLA DOLO	9982	6 VG	2731
	7 26	1 38 58.5337	16 8 38.112	15 32 54.40	9009 CURACAO	8535	2 MJ	3136
	7 26	1 39 10.5337	16 7 59.677	14 20 33.21	9009 CURACAO	8535	5 MJ	3137
	7 26	1 40 2.5325	16 5 13.275	9 7 49.22	9009 CURACAO	8536	2 KA	1490
	7 26	1 40 10.5342	16 24 17.698	44 55 42.22	9007 AREQUIPA	9501	3 FI	3034
	7 26	1 40 26.5344	16 23 19.999	43 58 8.86	9007 AREQUIPA	9501	5 FI	3035
	7 26	1 40 34.5324	16 3 30.588	5 57 13.59	9009 CURACAO	8536	10 KA	2951
	7 26	1 40 58.5328	16 2 13.168	3 35 43.31	9009 CURACAO	8536	16 KA	1492
	7 26	1 42 54.5346	15 55 51.746	-7 23 47.97	9009 CURACAO	8537	2 RD	3144
	7 26	1 43 22.5348	15 54 16.929	-9 55 23.18	9009 CURACAO	8537	9 RD	3145
	7 26	1 43 38.5348	16 11 53.029	31 15 14.65	9007 AREQUIPA	9502	4 FI	3036
	7 26	1 43 46.5347	16 11 24.011	30 40 30.65	9007 AREQUIPA	9502	5 FI	3037
	7 26	1 46 50.5297	15 59 50.213	16 10 29.42	9007 AREQUIPA	9503	2 LD	690
	7 26	1 46 50.5337	15 41 34.269	-26 49 9.52	9009 CURACAO	8538	6 LT	694
	7 26	1 46 58.5296	15 59 18.252	15 29 46.66	9007 AREQUIPA	9503	3 LD	1455
	7 26	1 46 58.5335	15 41 2.454	-27 24 6.80	9009 CURACAO	8538	8 LT	695
	7 26	1 47 6.5294	15 58 46.097	14 48 52.75	9007 AREQUIPA	9503	4 PK	691
	7 26	1 47 6.5336	15 40 30.244	-27 58 43.02	9009 CURACAO	8538	10 LT	696
	7 26	1 47 14.5295	15 58 13.846	14 7 44.64	9007 AREQUIPA	9503	5 PK	692
	7 26	1 47 14.5337	15 39 57.777	-28 32 59.86	9009 CURACAO	8538	12 LT	697
	7 26	1 47 22.5295	15 57 41.323	13 26 25.58	9007 AREQUIPA	9503	6 PK	693
	7 26	1 47 22.5337	15 39 25.175	-29 6 59.99	9009 CURACAO	8538	14 LT	698
	7 26	1 47 30.5293	15 57 8.754	12 44 51.37	9007 AREQUIPA	9503	7 PG	1351
	7 26	1 47 30.5337	15 38 52.182	-29 40 43.87	9009 CURACAO	8538	16 LT	699
	7 26	1 49 55.5287	15 33 13.060	17 53 20.80	9011 VILLA DOLO	9988	2 MY	8415
	7 26	1 50 2.5340	15 27 30.171	-39 28 16.15	9009 CURACAO	8539	4 MY	8421
	7 26	1 50 3.5285	15 32 43.096	17 21 52.24	9011 VILLA DOLO	9988	3 MY	8416
	7 26	1 50 6.5339	15 27 10.638	-39 42 23.08	9009 CURACAO	8539	5 EM	3375
	7 26	1 50 10.5340	15 26 51.088	-39 56 31.12	9009 CURACAO	8539	6 MY	8422
	7 26	1 50 11.5285	15 32 13.184	16 50 13.60	9011 VILLA DOLO	9988	4 FI	2763
	7 26	1 50 14.5340	15 26 31.338	-40 10 31.47	9009 CURACAO	8539	7 MY	8423
	7 26	1 50 18.5340	15 26 11.408	-40 24 31.25	9009 CURACAO	8539	8 MY	8424
	7 26	1 50 19.5284	15 31 42.853	16 18 25.98	9011 VILLA DOLO	9988	5 MY	8417
	7 26	1 50 22.5336	15 25 51.456	-40 38 28.98	9009 CURACAO	8539	9 EM	3376
	7 26	1 50 26.5340	15 25 31.464	-40 52 17.24	9009 CURACAO	8539	10 MY	8425
	7 26	1 50 27.5284	15 31 11.969	15 46 21.67	9011 VILLA DOLO	9988	6 MY	8418
	7 26	1 50 30.5341	15 25 11.210	-41 6 10.47	9009 CURACAO	8539	11 EM	3377

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 26	1 50 35.5285	15 30 41.139	15 14 15.99	9011 VILLA DOLO	9988 S 7	MY	8419
	7 26	1 50 43.5285	15 30 9.961	14 41 55.54	9011 VILLA DOLO	9988 S 8	MY	8420
	7 26	1 51 47.5295	15 25 49.127	10 17 3.24	9011 VILLA DOLO	9988 16	FI	2754
	7 26	1 52 26.5298	15 33 40.980	-14 20 46.03	9007 AREQUIPA	9504 6	FI	3038
	7 26	1 52 42.5296	15 32 9.776	-15 49 28.31	9007 AREQUIPA	9504 8	FI	3039
	7 26	1 58 3.5379	14 50 49.377	-18 19 8.61	9011 VILLA DOLO	9989 5	FI	2765
	7 26	1 58 27.5375	14 47 49.306	-20 11 55.76	9011 VILLA DOLO	9989 8	FI	2766
	7 26	17 57 6.5142	13 47 46.391	81 19 39.18	9008 SHIRAZ	13212 4	TA	3102
	7 26	17 57 30.5151	14 8 15.373	79 53 41.98	9008 SHIRAZ	13212 7	TA	3103
	7 26	18 1 30.5178	15 18 27.274	61 49 37.90	9008 SHIRAZ	13213 3	JV	3100
	7 26	18 1 54.5186	15 20 46.655	59 45 16.96	9008 SHIRAZ	13213 6	JV	3101
	7 26	18 6 42.5281	15 33 11.685	32 44 27.19	9008 SHIRAZ	13214 6	JV	3099
1963	7 26	20 40 50.5374	22 35 23.790	75 9 33.74	9004 SAN FERNAN	9496 4	FI	2089
	7 26	20 41 6.5377	22 18 58.156	75 2 32.00	9004 SAN FERNAN	9496 6	FI	2090
	7 26	20 45 6.5401	19 12 57.416	64 48 47.83	9004 SAN FERNAN	9497 4	FI	2091
	7 26	20 45 22.5403	19 5 39.113	63 41 30.49	9004 SAN FERNAN	9497 6	FI	2092
	7 26	20 51 41.1790	17 36 34.614	29 34 38.78	9004 SAN FERNAN	9499 3	FI	2093
	7 26	20 52 5.1788	17 33 41.191	27 12 14.03	9004 SAN FERNAN	9499 6	FI	2094
	7 26	23 31 26.7081	13 52 7.545	44 50 3.67	9004 SAN FERNAN	9508 3	FI	2095
	7 26	23 31 34.7084	13 53 36.160	44 17 43.08	9004 SAN FERNAN	9508 4	FI	2096
	7 27	0 0 18.5433	17 34 59.258	8 56 55.90	9011 VILLA DOLO	10007 4	FI	2767
	7 27	0 0 50.5430	17 33 57.041	6 34 22.79	9011 VILLA DOLO	10007 8	FI	2768
	7 27	0 0 58.5280	18 23 42.462	-14 59 31.69	9007 AREQUIPA	9517 4	FI	3040
	7 27	0 1 22.5277	18 23 30.325	-17 3 24.16	9007 AREQUIPA	9517 7	FI	3041
1963	7 27	0 3 14.5278	18 23 16.338	-26 45 19.61	9007 AREQUIPA	9518 3	FI	3042
	7 27	0 8 10.5348	17 20 35.090	-32 38 0.25	9011 VILLA DOLO	10008 3	FI	2769
	7 27	0 8 42.5344	17 19 35.180	-35 45 44.05	9011 VILLA DOLO	10008 7	FI	2770
	7 27	2 26 34.5249	16 17 45.083	28 44 43.04	9010 JUPITER	10231 7	RD	5470
	7 27	2 26 42.5250	16 17 24.499	27 55 32.35	9010 JUPITER	10231 8	RD	3388
	7 27	2 33 38.5339	14 53 12.024	9 55 40.98	9009 CJRACAD	8551 3	BZ	3139
	7 27	2 34 2.5325	15 59 53.862	-12 21 41.81	9010 JUPITER	10232 7	RD	3389
	7 27	2 34 10.5326	15 59 34.541	-12 57 48.20	9010 JUPITER	10232 8	RD	3390
	7 27	2 34 18.5336	14 52 44.720	6 41 24.74	9009 CJRACAD	8551 13	BZ	3140
	7 27	2 37 6.5337	15 52 4.691	-24 59 17.26	9010 JUPITER	10233 3	RD	3391
	7 27	2 37 22.5335	15 51 21.605	-25 58 24.33	9010 JUPITER	10233 5	RD	3392
	7 27	2 44 58.5298	14 39 9.873	- 4 19 40.94	9007 AREQUIPA	9524 3	FI	3043
1963	7 27	2 45 14.5295	14 38 0.049	- 5 30 34.89	9007 AREQUIPA	9524 5	FI	3956
	7 27	8 0 26.6253	15 23 25.402	26 3 20.78	9012 MAJI	10500 7	JV	4549
	7 27	8 1 6.6256	15 23 24.598	22 19 0.50	9012 MAJI	10500 12	JV	4550
	7 27	16 21 58.5292	17 51 38.694	- 5 24 12.67	9008 SHIRAZ	13231 4	BZ	3113
	7 27	16 22 6.5293	17 51 0.548	- 6 2 27.84	9008 SHIRAZ	13231 6	BZ	3114
	7 27	16 26 38.5325	17 32 25.488	-25 28 4.23	9008 SHIRAZ	13232 3	BZ	3115
	7 27	18 58 49.2825	14 28 43.909	35 14 50.00	9008 SHIRAZ	13238 5	NG	3939
	7 27	18 58 57.2830	14 29 28.072	34 37 34.46	9008 SHIRAZ	13238 7	NG	3118
	7 27	21 44 5.8351	16 5 58.991	39 5 52.11	9004 SAN FERNAN	9531 4	FI	2097

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 27	21 44 13.8349	1 16 5 53.289	38 16 56.15	4	9004 SAN FERNAN	9531	5 FI	2098
	7 28	0 41 54.5367	1 17 38 26.565	11 15 16.43	4	9009 CURACAO	8560	2 MJ	3947
	7 28	0 42 2.5365	1 17 37 44.979	10 28 12.07	4	9009 CURACAO	8560	4 MJ	3138
	7 28	0 49 34.5378	1 17 4 58.644	-30 24 48.38	4	9009 CURACAO	8562	9 EM	3378
	7 28	0 49 46.5382	1 17 4 10.876	-31 19 23.84	4	9009 CURACAO	8562	12 EM	3379
	7 28	0 49 46.5399	1 17 20 6.737	12 43 42.38	4	9007 AREQUIPA	9540	5 FI	3045
	7 28	0 50 18.5397	1 17 18 12.943	9 55 37.69	4	9007 AREQUIPA	9540	9 FI	3046
	7 28	0 52 58.5393	1 16 51 15.562	-44 28 36.70	4	9009 CURACAO	8563	5 S 9 PL	682
	7 28	0 52 58.5395	1 17 8 44.668	-5 3 23.37	4	9007 AREQUIPA	9541	5 S 5 PL	1348
	7 28	0 53 6.5393	1 17 8 15.780	-5 50 22.73	4	9007 AREQUIPA	9541	5 S 6 PL	1349
	7 28	0 53 6.5394	1 16 50 42.037	-44 58 13.27	4	9009 CURACAO	8563	5 S 11 PL	683
	7 28	0 53 14.5393	1 17 7 46.820	-6 37 29.52	4	9007 AREQUIPA	9541	5 S 7 PL	676
	7 28	0 53 14.5394	1 16 50 8.209	-45 27 35.05	4	9009 CURACAO	8563	5 S 13 PL	684
	7 28	0 53 22.5391	1 17 7 18.025	-7 24 42.88	4	9007 AREQUIPA	9541	5 S 8 PL	677
	7 28	0 53 22.5393	1 16 49 34.028	-45 56 44.64	4	9009 CURACAO	8563	5 S 15 PL	685
	7 28	0 53 30.5388	1 16 48 59.843	-46 25 41.51	4	9009 CURACAO	8563	5 S 17 LD	686
	7 28	0 53 30.5390	1 17 6 48.959	-8 12 5.36	4	9007 AREQUIPA	9541	5 S 9 PL	678
	7 28	0 53 38.5386	1 17 6 19.838	-8 59 35.77	4	9007 AREQUIPA	9541	5 S 10 PL	679
	7 28	0 53 38.5389	1 16 48 25.751	-46 54 21.91	4	9009 CURACAO	8563	5 S 19 LD	687
	7 28	0 53 46.5387	1 17 5 50.542	-9 47 8.38	4	9007 AREQUIPA	9541	5 S 11 LD	680
	7 28	0 53 46.5393	1 16 47 50.542	-47 22 47.44	4	9009 CURACAO	8563	5 S 21 LD	688
	7 28	0 53 54.5385	1 17 5 21.470	-10 34 48.11	4	9007 AREQUIPA	9541	5 S 12 LD	681
	7 28	0 53 54.5392	1 16 47 16.116	-47 51 3.29	4	9009 CURACAO	8563	5 S 23 LD	689
	7 28	0 55 30.5337	1 16 59 18.700	-20 9 44.67	4	9007 AREQUIPA	9542	2 FI	3047
	7 28	0 55 46.5334	1 16 58 15.741	-21 45 24.78	4	9007 AREQUIPA	9542	4 FI	3048
	7 28	1 2 2.6742	1 15 44 22.534	-31 7 38.10	4	9011 VILLA DOLO	10032	4 SE	4451
	7 28	1 2 18.6738	1 15 42 16.626	-32 36 53.16	4	9011 VILLA DOLO	10032	6 SE	3125
	7 28	3 18 36.4983	1 14 55 37.688	34 36 59.76	4	9010 JUPITER	10249	5 JV	3393
	7 28	3 23 16.5076	1 15 4 37.212	10 53 1.83	4	9010 JUPITER	10250	3 JV	3394
	7 28	3 23 32.5079	1 15 4 48.870	9 36 28.81	4	9010 JUPITER	10250	5 JV	3395
	7 28	3 28 4.5186	1 15 4 33.287	-9 58 0.61	4	9010 JUPITER	10251	6 FI	2469
	7 28	23 12 5.1705	1 18 33 20.168	-36 9 28.78	4	9011 VILLA DOLO	10047	3 SE	3126
	7 28	23 12 29.1705	1 18 34 49.127	-38 11 26.69	4	9011 VILLA DOLO	10047	6 SE	3127
	7 29	1 35 22.5373	1 16 1 37.221	15 4 5.53	4	9009 CURACAO	8574	4 KA	2978
	7 29	1 35 30.5374	1 16 1 14.368	14 16 22.81	4	9009 CURACAO	8574	6 KA	2979
	7 29	1 36 46.5369	1 15 57 34.209	6 46 55.80	4	9009 CURACAO	8575	3 KA	2980
	7 29	1 36 58.5452	1 17 9 12.826	-16 6 8.13	4	9010 JUPITER	10262	3 FI	2467
	7 29	1 37 14.5454	1 17 8 11.331	-17 18 31.49	4	9010 JUPITER	10262	5 FI	2468
	7 29	1 37 22.5382	1 16 14 50.429	41 33 0.62	4	9007 AREQUIPA	9568	4 FI	3049
	7 29	1 37 42.5375	1 15 54 48.107	1 22 52.01	4	9009 CURACAO	8575	17 KA	3496
	7 29	1 40 18.5385	1 15 46 37.045	-12 44 28.62	4	9009 CURACAO	8576	3 KA	2981
	7 29	1 40 26.5459	1 16 56 33.915	-30 22 24.58	4	9010 JUPITER	10263	3 FI	2470
	7 29	1 40 34.5395	1 16 3 54.805	28 25 36.52	4	9007 AREQUIPA	9569	3 FI	3050
	7 29	1 40 50.5462	1 16 55 10.529	-31 50 6.94	4	9010 JUPITER	10263	6 FI	2471
	7 29	1 41 2.5387	1 15 44 8.499	-16 25 4.71	4	9009 CURACAO	8576	14 KA	2982

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 7 29	1 46 10.5370	1	15 23 32.455	-38 2 53.25	9009 CURACAO	8577	4 KA	3497
7 29	1 46 18.5391	1	15 40 57.554	-0 24 30.07	9007 AREQUIPA	9570	3 FI	3051
7 29	1 46 42.5370	1	15 20 57.312	-39 54 45.07	9009 CURACAO	8577	12 KA	2983
7 29	1 48 26.5376	1	15 30 9.888	-12 5 17.27	9007 AREQUIPA	9571	4 FI	3957
7 29	4 11 8.5100	1	14 11 45.120	33 24 59.89	9010 JUPITER	10266	6 RD	3080
7 29	7 3 59.1114	1	16 46 45.115	21 12 52.11	9012 MAUI	10520	3 JV	4551
7 29	7 4 23.1113	1	16 45 3.319	18 44 52.66	9012 MAUI	10520	6 JV	4552
7 29	20 46 57.9466	1	17 37 56.921	36 12 9.90	9004 SAN FERNAN	9567	4 FI	2099
7 29	20 47 29.9468	1	17 33 47.141	33 0 1.54	9004 SAN FERNAN	9567	8 FI	2100
7 29	23 28 6.3617	1	13 57 7.299	42 35 41.46	9004 SAN FERNAN	9571	5 FI	5465
7 29	23 54 2.5399	1	18 23 47.782	1 25 56.38	9007 AREQUIPA	9581	4 PG	663
7 29	23 54 2.5475	1	18 15 46.869	-36 12 29.35	9009 CURACAO	8588	5 MY	669
7 29	23 54 10.5400	1	18 23 35.112	0 47 4.59	9007 AREQUIPA	9581	5 PG	664
7 29	23 54 10.5479	1	18 15 31.162	-36 44 5.47	9009 CURACAO	8588	7 MY	670
7 29	23 54 18.5402	1	18 23 22.211	0 8 7.90	9007 AREQUIPA	9581	5 PG	665
7 29	23 54 18.5479	1	18 15 15.824	-37 15 29.41	9009 CURACAO	8588	5 MY	671
7 29	23 54 26.5400	1	18 23 9.924	-0 31 4.83	9007 AREQUIPA	9581	7 PG	666
7 29	23 54 26.5479	1	18 15 0.543	-37 46 40.77	9009 CURACAO	8588	5 MY	672
7 29	23 54 34.5401	1	18 22 57.668	-1 10 26.96	9007 AREQUIPA	9581	5 PG	667
7 29	23 54 34.5480	1	18 14 45.447	-38 17 42.42	9009 CURACAO	8588	510 MY	673
7 29	23 54 42.5400	1	18 22 45.973	-1 49 58.61	9007 AREQUIPA	9581	5 PG	668
7 29	23 54 42.5480	1	18 14 30.902	-38 48 33.98	9009 CURACAO	8588	511 MY	674
7 29	23 57 30.5387	1	18 19 37.797	-16 13 7.42	9007 AREQUIPA	9582	5 YK	638
7 29	23 57 30.5493	1	18 10 14.903	-48 54 57.23	9009 CURACAO	8589	5 MY	647
7 29	23 57 38.5383	1	17 28 58.601	4 37 41.95	9011 VILLA DOLO	10074	5 2 DM	656
7 29	23 57 38.5388	1	18 19 31.909	-16 55 17.44	9007 AREQUIPA	9582	5 YK	639
7 29	23 57 38.5493	1	18 10 5.363	-49 21 55.09	9009 CURACAO	8589	5 MY	648
7 29	23 57 46.5380	1	17 28 41.411	4 0 5.39	9011 VILLA DOLO	10074	5 3 DM	657
7 29	23 57 46.5386	1	18 19 26.241	-17 37 29.98	9007 AREQUIPA	9582	5 YK	640
7 29	23 57 46.5493	1	18 9 55.731	-49 48 47.67	9009 CURACAO	8589	5 MY	649
7 29	23 57 54.5387	1	18 19 21.002	-18 19 50.55	9007 AREQUIPA	9582	5 YK	641
7 29	23 57 54.5496	1	18 9 46.681	-50 15 22.79	9009 CURACAO	8589	5 MY	650
7 29	23 58 2.5377	1	17 28 7.383	2 44 3.17	9011 VILLA DOLO	10074	5 5 DM	658
7 29	23 58 2.5385	1	18 19 16.055	-19 2 11.54	9007 AREQUIPA	9582	5 YK	642
7 29	23 58 2.5494	1	18 9 37.993	-50 41 54.72	9009 CURACAO	8589	510 MY	651
7 29	23 58 10.5375	1	17 27 50.519	2 5 39.67	9011 VILLA DOLO	10074	5 6 DM	659
7 29	23 58 10.5385	1	18 19 11.305	-19 44 34.01	9007 AREQUIPA	9582	5 YK	643
7 29	23 58 10.5492	1	18 9 29.531	-51 8 16.38	9009 CURACAO	8589	511 MY	1454
7 29	23 58 18.5374	1	17 27 33.503	1 26 55.52	9011 VILLA DOLO	10074	5 7 DM	660
7 29	23 58 18.5385	1	18 19 6.685	-20 26 57.46	9007 AREQUIPA	9582	5 YK	644
7 29	23 58 18.5493	1	18 9 21.390	-51 34 26.37	9009 CURACAO	8589	512 MY	1347
7 29	23 58 26.5373	1	17 27 16.410	0 47 54.99	9011 VILLA DOLO	10074	5 8 DM	661
7 29	23 58 26.5383	1	18 19 2.662	-21 9 25.71	9007 AREQUIPA	9582	510 YK	645
7 29	23 58 26.5493	1	18 9 13.002	-52 0 19.70	9009 CURACAO	8589	513 MY	654
7 29	23 58 34.5367	1	17 26 59.478	0 8 38.58	9011 VILLA DOLO	10074	5 9 DM	662

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 29	23 58 34.5382	18 18 58.762	-21 51 48.13	4	9007 AREQUIPA	9582 S11	YK	646
7 29	23 58 34.5492	1	18 9 5.196	-52 26 21.13	4	9009 CURACAO	8589 S14	MY	655
7 30	2 22 42.6978	1	16 11 7.361	29 43 4.25	4	9010 JUPITER	10281	5 RD	3081
7 30	2 22 58.6984	1	16 10 35.811	28 5 40.30	4	9010 JUPITER	10281	7 RD	3082
7 30	2 27 34.5396	1	14 50 52.457	21 23 21.54	4	9009 CURACAO	8595	5 KA	2984
7 30	2 27 54.5402	1	14 51 1.131	19 45 48.23	4	9009 CURACAO	8595	10 KA	2985
7 30	2 34 50.7124	1	15 44 36.075	-29 30 56.08	4	9010 JUPITER	10283	5 RD	3083
7 30	7 56 50.3401	1	15 18 46.129	25 14 24.05	4	9012 MAUI	10546	6 JV	4553
7 30	7 56 58.3402	1	15 18 49.620	24 30 23.95	4	9012 MAUI	10546	7 JV	4554
7 30	18 54 39.7850	1	14 25 1.958	36 41 15.04	4	9008 SHIRAZ	13273	3 VG	3940
7 30	21 40 39.4276	1	15 59 20.990	37 17 23.50	4	9004 SAN FERNAN	9595	3 FI	2101
7 30	21 40 55.4275	1	15 59 21.386	35 40 49.11	4	9004 SAN FERNAN	9595	5 FI	2102
7 31	0 39 6.5536	1	17 27 13.972	6 21 21.84	4	9009 CURACAO	8605	3 KA	2986
7 31	0 39 46.5549	1	17 24 3.286	2 23 41.49	4	9009 CURACAO	8605	8 KA	2987
7 31	0 46 58.5555	1	16 53 45.748	-35 3 57.18	4	9009 CURACAO	8606	3 KA	3498
7 31	0 48 2.5557	1	16 49 19.624	-39 28 42.25	4	9009 CURACAO	8606	11 KA	2989
7 31	0 50 18.5535	1	16 39 21.336	-47 55 56.22	4	9009 CURACAO	8607	4 KA	2990
7 31	1 51 22.5535	1	16 34 15.253	-51 31 9.55	4	9009 CURACAO	8607	12 KA	2991
7 31	3 14 18.5428	1	13 53 2.159	43 58 16.92	4	9009 CURACAO	8612	4 KA	2992
7 31	3 15 14.5323	1	14 53 41.790	32 20 20.55	4	9010 JUPITER	10310	9 BZ	3065
7 31	3 17 38.5341	1	14 59 55.423	20 13 32.68	4	9010 JUPITER	10311	3 RD	3084
7 31	3 18 26.5343	1	15 1 15.303	16 17 46.38	4	9010 JUPITER	10311	7 RD	4491
7 31	3 21 38.5435	1	15 3 50.215	1 33 27.43	4	9010 JUPITER	10312	6 SC	3058
7 31	3 21 46.5435	1	15 3 51.766	0 58 57.80	4	9010 JUPITER	10312	7 SC	3069
7 31	5 55 58.5310	1	14 2 4.901	40 55 40.74	4	9001 ORGAN PASS	11210	11 KA	1902
7 31	5 56 2.5311	1	14 2 40.098	40 39 31.58	4	9001 ORGAN PASS	11210	12 KA	1903
7 31	6 0 58.5299	1	19 4 2.593	45 46 44.11	4	9012 MAUI	10561	7 JV	4555
7 31	6 1 14.5298	1	19 0 46.475	44 36 54.42	4	9012 MAUI	10561	9 JV	4556
7 31	6 3 54.5342	1	18 33 25.417	31 49 28.55	4	9012 MAUI	10562	4 JV	4557
7 31	6 4 26.5345	1	18 28 54.668	29 3 6.28	4	9012 MAUI	10562	8 JV	4558
7 31	6 7 34.2995	1	18 6 56.466	11 59 18.64	4	9012 MAUI	10563	3 JV	4559
7 31	6 8 14.2995	1	18 3 2.582	8 17 27.33	4	9012 MAUI	10563	8 JV	6679
7 31	8 48 27.0499	1	14 24 13.421	30 22 24.50	4	9012 MAUI	10572	5 EM	6680
7 31	8 48 43.0501	1	14 25 14.596	29 13 16.33	4	9012 MAUI	10572	7 EM	5471
7 31	17 0 18.5241	1	17 38 31.199	64 9 11.41	4	9008 SHIRAZ	13292	3 SE	3120
7 31	17 0 58.5252	1	17 29 54.419	60 45 56.05	4	9008 SHIRAZ	13292	8 SE	3121
7 31	17 5 14.5239	1	16 57 21.376	36 9 12.57	4	9008 SHIRAZ	13293	5 SE	3122
7 31	17 5 38.5249	1	16 55 21.572	33 41 10.19	4	9008 SHIRAZ	15293	8 SE	3123
7 31	22 31 59.7983	1	14 38 10.221	44 21 9.74	4	9004 SAN FERNAN	9625	3 FI	2116
7 31	22 32 23.7983	1	14 41 18.075	42 21 29.73	4	9004 SAN FERNAN	9625	6 FI	2117
8 1	1 23 30.5518	1	15 50 30.413	4 31 22.55	4	9009 CURACAO	8632	8 RD	283
8 1	1 33 46.5522	1	15 49 47.036	3 0 31.11	4	9009 CURACAO	8632	10 RD	284
8 1	1 34 2.5417	1	16 7 43.011	40 1 21.60	4	9007 AREQUIPA	9623	10 VD	8660
8 1	1 37 6.5515	1	15 39 55.089	-14 41 4.05	4	9009 CURACAO	8633	7 RD	285
8 1	1 37 22.5515	1	15 39 2.842	-15 58 59.53	4	9009 CURACAO	8633	9 RD	286

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	8 1 1 29 54.5465	1	15 47 33.158	14 0 1.70	4	9007 AREQUIPA	9625	3 VD	8661
	8 1 1 43 54.5518	1	15 12 10.629	-42 0 15.52	4	9009 CURACAO	8635	7 VD	593
	8 1 1 44 2.5519	1	15 11 28.967	-42 25 53.06	4	9009 CURACAO	8635	8 VD	8663
	8 1 7 0 20.7804	1	16 39 7.420	21 4 32.70	4	9012 MAUI	10592	5 MY	9785
	8 1 7 0 36.7802	1	16 38 6.615	19 26 3.47	4	9012 MAUI	10592	7 MY	9786
	8 1 20 44 5.8086	1	17 24 59.611	31 40 10.50	4	9004 SAN FERNAN	9640	3 RD	8894
	8 1 20 44 29.8085	1	17 22 25.999	29 14 41.95	4	9004 SAN FERNAN	9640	6 RD	8895
	8 1 23 23 39.8358	1	13 50 23.334	44 42 57.53	4	9004 SAN FERNAN	9650	4 RD	8896
	8 1 23 24 11.8362	1	13 56 17.193	42 39 33.98	4	9004 SAN FERNAN	9650	8 RD	8897
	8 2 2 27 14.5392	1	15 50 32.363	-14 5 47.54	4	9010 JUPITER	10348	5 2 PL	1379
	8 2 2 27 14.5411	1	14 48 45.513	5 21 27.71	4	9009 CURACAO	8646	513 MY	1075
	8 2 2 27 22.5394	1	15 50 15.537	-14 39 49.48	4	9010 JUPITER	10348	5 3 PL	1082
	8 2 2 27 22.5410	1	14 48 40.642	4 45 13.57	4	9009 CURACAO	8646	515 MY	1076
	8 2 2 27 30.5395	1	15 49 58.982	-15 13 36.16	4	9010 JUPITER	10348	5 4 PL	1083
	8 2 2 27 30.5402	1	14 48 35.740	4 9 10.35	4	9009 CURACAO	8646	517 MY	1077
	8 2 2 27 38.5396	1	15 49 41.871	-15 47 3.01	4	9010 JUPITER	10348	5 5 PL	1380
	8 2 2 27 38.5410	1	14 48 30.355	3 33 10.11	4	9009 CURACAO	8646	519 MY	1078
	8 2 2 27 46.5397	1	15 49 24.795	-16 20 17.74	4	9010 JUPITER	10348	5 6 PG	1085
	8 2 2 27 46.5413	1	14 48 24.606	2 57 19.89	4	9009 CURACAO	8646	521 MY	1079
	8 2 2 27 54.5400	1	15 49 7.483	-16 53 16.96	4	9010 JUPITER	10348	5 7 PG	1381
	8 2 2 27 54.5413	1	14 48 18.541	2 21 37.43	4	9009 CURACAO	8646	523 MY	1080
	8 2 2 30 26.5448	1	15 43 11.971	-26 29 30.87	4	9010 JUPITER	10349	6 PG	590
	8 2 21 36 14.6768	1	15 52 35.401	41 16 16.99	4	9004 SAN FERNAN	9668	4 RD	8898
	8 2 21 36 38.6768	1	15 53 0.453	38 52 54.11	4	9004 SAN FERNAN	9668	7 RD	8899
	8 3 0 34 50.5436	1	17 23 5.338	10 10 16.10	4	9009 CURACAO	8649	8 VD	8664
	8 3 0 34 58.5440	1	17 22 26.109	9 22 12.64	4	9009 CURACAO	8649	10 VD	8665
	8 3 3 11 24.2171	1	14 50 36.042	32 29 38.37	4	9010 JUPITER	10379	8 PG	38
	8 3 3 11 32.2170	1	14 51 6.064	31 49 51.39	4	9010 JUPITER	10379	9 PG	39
	8 3 3 17 24.2197	1	15 2 15.632	4 4 20.22	4	9010 JUPITER	10380	3 PG	40
	8 3 3 17 32.2199	1	15 2 19.976	3 29 47.30	4	9010 JUPITER	10380	4 PG	41
	8 3 5 52 10.5298	1	20 32 51.684	64 34 40.54	4	9012 MAUI	10626	4 MY	9787
	8 3 5 52 18.5298	1	20 29 25.890	64 15 9.00	4	9012 MAUI	10626	5 MY	9788
	8 3 5 55 14.5290	1	19 28 8.188	55 11 45.17	4	9012 MAUI	10627	6 MY	9789
	8 3 5 55 30.5291	1	19 23 44.514	54 12 1.84	4	9012 MAUI	10627	8 MY	9790
	8 3 5 59 46.5314	1	18 31 42.372	34 58 53.64	4	9012 MAUI	10628	3 MY	9791
	8 3 5 59 54.5314	1	18 30 30.061	34 17 33.52	4	9012 MAUI	10628	4 MY	9792
	8 3 6 5 18.0741	1	17 53 33.240	4 28 35.15	4	9012 MAUI	10629	3 MY	9793
	8 3 6 5 34.0742	1	17 52 9.885	2 59 48.15	4	9012 MAUI	10629	5 MY	9794
	8 3 8 44 54.4000	1	14 24 32.537	29 10 22.17	4	9012 MAUI	10639	6 MY	9795
	8 3 8 45 2.4002	1	14 25 3.285	28 36 44.04	4	9012 MAUI	10639	7 MY	9796
	8 3 17 1 45.6578	1	16 48 16.507	34 59 41.32	4	9008 SHIRAZ	13321	4 BA	9589
	8 3 17 1 53.6580	1	16 47 42.914	34 10 17.31	4	9008 SHIRAZ	13321	6 BA	9590
	8 3 22 28 39.7316	1	14 39 0.898	41 47 19.67	4	9004 SAN FERNAN	9699	4 RD	8900
	8 3 22 28 47.7316	1	14 40 1.945	41 8 15.69	4	9004 SAN FERNAN	9699	5 RD	8901
	8 4 1 21 30.5392	1	17 37 42.830	28 55 56.63	4	9010 JUPITER	10404	5 PG	42

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 4	1 21 38.5393	1	17 36 48.656	28 8 6.57	4	9010 JUPITER	10404	6 PG	43
8 4	1 28 10.5445	1	15 48 52.895	14 4 28.43	4	9009 CURACAO	8660	9 VD	8667
8 4	1 30 10.5442	1	15 44 11.537	2 44 15.03	4	9009 CURACAO	8661	6 VD	8658
8 4	1 30 14.5442	1	15 44 1.556	2 21 59.34	4	9009 CURACAO	8661	7 VD	8669
8 4	1 30 26.5530	1	16 55 56.514	-19 26 55.55	4	9010 JUPITER	10405	9 PG	44
8 4	1 30 34.5405	1	16 1 25.141	38 56 22.57	4	9007 AREQUIPA	9666	7 PG	29
8 4	1 30 34.5531	1	16 55 28.038	-20 1 30.58	4	9010 JUPITER	10405	10 PG	45
8 4	1 34 2.5452	1	15 33 18.179	-17 5 37.11	4	9009 CURACAO	8662	10 VD	9199
8 4	1 34 50.5529	1	16 40 46.238	-36 8 2.68	4	9010 JUPITER	10406	13 PG	940
8 4	1 35 6.5531	1	16 39 51.211	-37 0 30.85	4	9010 JUPITER	10406	15 PG	941
8 4	1 36 42.5399	1	15 40 55.746	11 35 31.45	4	9007 AREQUIPA	9668	2 PG	30
8 4	1 36 50.5398	1	15 40 24.329	10 55 19.13	4	9007 AREQUIPA	9668	3 PG	31
8 4	1 41 46.5327	1	15 17 4.515	-14 41 11.06	4	9007 AREQUIPA	9670	6 PG	32
8 4	1 41 54.5326	1	15 16 18.702	-15 22 25.38	4	9007 AREQUIPA	9670	7 PG	33
8 4	17 50 42.5309	1	14 54 52.013	57 41 13.73	4	9008 SHIRAZ	13351	4 BA	9591
8 4	17 50 58.5315	1	14 57 11.362	56 21 12.56	4	9008 SHIRAZ	13351	6 BA	9592
8 4	23 47 30.5529	1	17 27 31.030	17 16 54.08	4	9011 VILLA DOLO	10134	8 SJ	6294
8 4	23 47 46.5527	1	17 26 49.918	16 11 57.19	4	9011 VILLA DOLO	10134	10 SJ	357
8 4	23 50 34.5490	1	17 19 37.225	3 45 19.25	4	9011 VILLA DOLO	10135	15 SJ	592
8 4	23 50 42.5489	1	17 19 16.590	3 6 40.55	4	9011 VILLA DOLO	10135	16 SJ	2490
8 4	23 57 14.5432	1	16 59 25.254	-33 0 4.56	4	9011 VILLA DOLO	10136	7 SJ	2491
8 4	23 57 38.5423	1	16 57 50.099	-35 21 31.99	4	9011 VILLA DOLO	10136	10 SJ	351
8 5	2 24 30.5469	1	14 46 52.941	1 15 58.03	4	9009 CURACAO	8685	12 BN	607
8 5	2 24 46.5469	1	14 46 40.663	0 7 27.00	4	9009 CURACAO	8685	16 BN	608
8 5	21 32 40.8467	1	15 46 39.921	40 4 37.55	4	9004 SAN FERNAN	9737	5 RD	8902
8 5	21 33 4.8471	1	15 47 21.320	37 43 23.75	4	9004 SAN FERNAN	9737	8 RD	8903
8 6	0 30 13.5860	1	17 20 25.412	16 7 22.70	4	9009 CURACAO	8691	4 BN	609
8 6	0 30 21.5862	1	17 19 45.354	15 19 3.94	4	9009 CURACAO	8691	5 BN	610
8 6	0 42 50.5330	1	16 44 34.982	-9 37 37.81	4	9007 AREQUIPA	9688	7 PG	34
8 6	0 42 50.5521	1	16 14 10.618	12 17 5.60	4	9011 VILLA DOLO	10155	5 DM	828
8 6	0 42 50.5598	1	16 25 7.344	-46 53 42.10	4	9009 CURACAO	8693	4 DM	824
8 6	0 42 58.5329	1	16 43 59.434	-10 25 14.14	4	9007 AREQUIPA	9688	8 PG	35
8 6	0 42 58.5521	1	16 13 38.714	11 41 54.38	4	9011 VILLA DOLO	10155	6 DM	829
8 6	0 42 58.5592	1	16 24 27.459	-47 21 7.51	4	9009 CURACAO	8693	5 DM	825
8 6	0 43 6.5521	1	16 13 6.714	11 6 24.30	4	9011 VILLA DOLO	10155	7 DM	830
8 6	0 43 6.5597	1	16 23 47.390	-47 48 18.99	4	9009 CURACAO	8693	6 DM	826
8 6	0 43 14.5520	1	16 12 34.355	10 30 41.39	4	9011 VILLA DOLO	10155	8 DM	831
8 6	0 43 14.5596	1	16 23 6.464	-48 15 16.80	4	9009 CURACAO	8693	7 DM	1456
8 6	0 49 14.5398	1	15 41 24.631	-19 33 1.36	4	9011 VILLA DOLO	10156	3 SJ	362
8 6	0 49 30.5394	1	15 39 34.784	-20 58 24.82	4	9011 VILLA DOLO	10156	5 SJ	353
8 6	3 10 18.4782	1	14 56 23.287	19 26 30.99	4	9010 JUPITER	10442	4 PG	2487
8 6	5 49 46.5377	1	19 56 58.794	62 29 39.67	4	9012 MAUI	10649	2 MY	9797
8 6	5 50 10.5377	1	19 48 13.158	61 14 57.06	4	9012 MAUI	10649	5 MY	9798
8 6	5 53 14.5353	1	18 56 31.476	49 35 8.82	4	9012 MAUI	10650	2 MY	2492
8 6	5 53 30.5355	1	18 53 3.512	48 24 24.43	4	9012 MAUI	10650	4 MY	2493

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	8 6 6	1 57.2291	17 46 7.570	2 53 13.51	9012 MAUI	10651	3 MY	9801
	8 6 6	2 13.2293	17 44 47.317	1 23 48.47	9012 MAUI	10651	5 MY	9802
	8 6 6	8 40 21.5891	14 20 59.457	32 8 9.97	9012 MAUI	10658	2 MY	9803
	8 6 6	8 40 45.5889	14 22 45.387	30 29 37.94	9012 MAUI	10658	5 MY	9804
	8 6 6	9 13 17.1285	19 0 14.911	-46 30 2.78	9003 WOOMERA	15235	5 SU	9288
	8 6 6	9 13 33.1279	19 2 1.620	-47 46 2.48	9003 WOOMERA	15235	7 SU	9289
	8 6 6	11 22 57.5076	16 27 32.860	42 37 0.78	9005 TOKYO	8728	6 VD	8654
	8 6 6	11 23 13.5078	16 27 1.144	40 58 39.70	9005 TOKYO	8728	8 VD	8655
	8 6 6	16 49 38.5303	18 10 13.264	79 39 21.65	9008 SHIRAZ	13375	3 BA	9593
	8 6 6	16 50 2.5311	17 56 3.316	78 3 38.62	9008 SHIRAZ	13375	6 BA	9594
	8 6 6	16 53 6.5365	17 6 15.084	63 44 19.16	9008 SHIRAZ	13376	4 SU	8720
	8 6 6	16 53 14.5368	17 5 7.620	63 2 40.51	9008 SHIRAZ	13376	5 SU	8721
	8 6 6	16 55 54.5432	16 48 52.622	48 8 7.98	9008 SHIRAZ	13377	2 SU	123
	8 6 6	16 56 2.5434	16 48 16.495	47 20 49.05	9008 SHIRAZ	13377	3 SU	8722
	8 6 6	16 59 30.5483	16 35 45.291	26 10 29.55	9008 SHIRAZ	13378	5 BA	9595
	8 6 6	16 59 38.5485	16 35 21.511	25 21 28.46	9008 SHIRAZ	13378	6 BA	9596
	8 6 6	22 24 39.9646	14 35 4.090	42 27 33.33	9004 SAN FERNAN	9760	3 RD	8904
	8 6 6	22 24 51.9646	14 36 42.239	41 30 29.34	9004 SAN FERNAN	9760	6 RD	8905
	8 6 6	23 1 27.4989	18 21 27.252	-39 43 26.79	9011 VILLA DOLO	10167	6 HC	488
	8 6 6	23 1 35.4985	18 21 47.600	-40 26 11.81	9011 VILLA DOLO	10167	7 HC	489
	8 7 7	1 18 2.5393	17 28 55.502	28 1 34.90	9010 JUPITER	10454	6 PG	46
	8 7 7	1 18 18.5396	17 27 17.517	26 24 45.14	9010 JUPITER	10454	8 PG	47
	8 7 7	1 23 42.5461	15 44 47.898	18 28 22.63	9009 CURACAO	8705	9 VD	8671
	8 7 7	1 23 46.5464	15 40 40.948	18 5 37.56	9009 CURACAO	8705	9 VD	8672
	8 7 7	1 25 46.5464	15 44 47.783	6 50 47.03	9009 CURACAO	8706	11 BN	611
	8 7 7	1 25 46.5525	16 54 18.323	-14 49 19.93	9010 JUPITER	10455	7 PG	1561
	8 7 7	1 25 50.5467	15 40 39.369	6 28 49.45	9009 CURACAO	8706	12 BN	612
	8 7 7	1 28 42.5479	15 33 48.393	-8 38 19.96	9009 CURACAO	8707	8 PK	613
	8 7 7	1 28 50.5527	16 43 50.145	-27 39 25.01	9010 JUPITER	10456	6 PG	943
	8 7 7	1 44 42.5434	14 34 34.621	-21 37 4.73	9011 VILLA DOLO	10171	4 HC	490
	8 7 7	1 44 58.5434	14 32 28.318	-22 43 37.00	9011 VILLA DOLO	10171	6 HC	491
	8 7 7	6 52 20.7133	16 26 35.179	25 2 10.10	9012 MAUI	10675	2 MY	9990
	8 7 7	6 52 36.7133	16 25 48.378	23 24 50.31	9012 MAUI	10675	4 MY	9991
	8 7 7	18 29 52.1327	12 42 25.380	-71 12 59.67	9002 OLIFANTS	13845	11 SU	9286
	8 7 7	18 30 0.1325	12 37 20.481	-71 26 22.06	9002 OLIFANTS	13845	12 SU	9287
	8 7 7	20 38 11.3992	17 4 7.056	23 18 32.44	9004 SAN FERNAN	9782	5 RD	8906
	8 7 7	20 38 27.3992	17 2 58.896	21 43 3.39	9004 SAN FERNAN	9782	7 RD	8907
	8 7 7	23 45 38.5562	17 18 33.705	9 50 57.58	9011 VILLA DOLO	10188	5 DM	9342
	8 7 7	23 45 46.5521	17 54 7.312	-47 42 1.65	9009 CURACAO	8708	4 MY	8797
	8 7 7	23 45 46.5561	17 18 11.654	9 14 51.12	9011 VILLA DOLO	10188	6 DM	9343
	8 7 7	23 45 54.5520	17 53 48.321	-48 9 59.12	9009 CURACAO	8708	5 PK	614
	8 7 7	23 45 54.5560	17 17 49.438	8 38 28.48	9011 VILLA DOLO	10188	5 MY	8802
	8 7 7	23 46 2.5521	17 53 29.867	-48 37 46.88	9009 CURACAO	8708	5 MY	8798
	8 7 7	23 46 2.5558	17 17 27.334	8 1 53.03	9011 VILLA DOLO	10188	5 MY	8803
	8 7 7	23 46 10.5521	17 53 11.270	-49 5 22.86	9009 CURACAO	8708	5 MY	8799

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1963 8 7	23 46 10.5556	1	17 17 5.107	7 24 53.88	4	9011 VILLA DOLO	10188 S 9	MY	8804
8 7	23 46 18.5522	1	17 52 52.711	-49 32 45.89	4	9009 CURACAO	8708 8	PK	615
8 7	23 46 18.5555	1	17 16 42.790	6 47 41.03	4	9011 VILLA DOLO	10188 S10	MY	8805
8 7	23 46 26.5523	1	17 52 34.250	-49 59 59.81	4	9009 CURACAO	8708 S 9	MY	8800
8 7	23 46 26.5554	1	17 16 20.407	6 10 9.01	4	9011 VILLA DOLO	10188 S11	MY	8806
8 7	23 46 34.5522	1	17 52 15.858	-50 27 2.73	4	9009 CURACAO	8708 S10	MY	8801
8 7	23 46 34.5553	1	17 15 57.865	5 32 26.87	4	9011 VILLA DOLO	10188 S12	MY	8807
8 7	23 46 42.5480	1	18 4 49.968	-17 45 19.02	4	9007 AREQUIPA	9697 11	PG	36
8 7	23 52 58.5521	1	16 54 48.097	-29 18 30.29	4	9011 VILLA DOLO	10189 3	DM	9344
8 7	23 53 6.5518	1	16 54 14.079	-30 5 31.94	4	9011 VILLA DOLO	10189 4	DM	9345
8 8	2 11 39.6728	1	15 52 2.569	28 59 8.73	4	9010 JUPITER	10484 8	PG	944
8 8	2 11 47.6729	1	15 52 0.682	28 12 23.67	4	9010 JUPITER	10484 9	PG	945
8 8	4 52 30.6811	1	14 41 18.438	40 45 21.21	4	9001 ORGAN PASS	11283 4	SU	9275
8 8	4 52 38.6811	1	14 42 12.640	40 6 44.75	4	9001 ORGAN PASS	11283 6	SU	9276
8 8	7 44 40.6224	1	15 5 51.258	29 44 41.77	4	9012 MAUI	10705 2	MY	9992
8 8	7 44 56.6224	1	15 6 21.380	28 22 38.07	4	9012 MAUI	10705 4	MY	9993
8 8	21 28 52.5696	1	15 40 49.400	40 14 52.32	4	9004 SAN FERNAN	9808 4	RD	8908
8 8	21 29 8.5699	1	15 41 29.701	38 42 16.65	4	9004 SAN FERNAN	9808 6	RD	8909
8 9	0 26 24.3059	1	17 13 34.055	17 15 57.12	4	9009 CURACAO	8714 5	LT	616
8 9	0 26 40.3067	1	17 12 17.354	15 39 8.31	4	9009 CURACAO	8714 7	LT	617
8 9	0 47 3.8089	1	15 25 50.350	-26 46 41.62	4	9011 VILLA DOLO	10206 3	DM	9346
8 9	0 47 11.8086	1	15 24 44.948	-27 28 2.24	4	9011 VILLA DOLO	10206 4	DM	9347
8 9	3 3 13.4411	1	14 43 12.013	35 4 34.65	4	9010 JUPITER	10512 4	PG	946
8 9	3 3 21.4411	1	14 43 51.041	34 26 48.53	4	9010 JUPITER	10512 5	PG	952
8 9	5 59 40.1745	1	17 33 34.512	-4 35 54.90	4	9012 MAUI	10728 3	MY	9994
8 9	5 59 44.1745	1	17 33 16.416	-4 57 32.42	4	9012 MAUI	10728 4	MY	9995
8 9	22 55 55.4938	1	18 13 28.760	-30 3 7.31	4	9011 VILLA DOLO	10210 3	DM	9348
8 9	22 56 3.4938	1	18 13 36.294	-30 46 26.56	4	9011 VILLA DOLO	10210 4	DM	9349
8 10	1 20 12.5166	1	15 39 13.638	17 18 2.29	4	9009 CURACAO	8722 6	LT	618
8 10	1 20 28.5168	1	15 38 49.848	15 49 8.30	4	9009 CURACAO	8722 10	LT	619
8 10	6 48 30.1931	1	16 19 52.352	25 55 35.80	4	9012 MAUI	10748 3	MY	9996
8 10	6 48 38.1933	1	16 19 32.978	25 7 25.33	4	9012 MAUI	10748 5	MY	9997
8 10	23 43 49.3384	1	17 57 37.522	-22 15 29.37	4	9007 AREQUIPA	9725 4	SJ	9294
8 10	23 45 1.3359	1	17 55 25.350	-29 0 37.63	4	9007 AREQUIPA	9725 13	SJ	9295
8 11	11 4 19.2810	1	12 4 31.361	-72 6 52.84	4	9003 WOOMERA	15324 7	SU	9290
8 11	11 4 35.2807	1	11 52 44.360	-72 24 7.87	4	9003 WOOMERA	15324 9	SU	9231
8 11	18 39 43.2866	1	14 23 40.827	34 41 0.32	4	9008 SHIRAZ	13441 6	HC	475
8 11	18 39 51.2869	1	14 24 31.765	34 8 5.55	4	9008 SHIRAZ	13441 7	HC	476
8 12	0 24 10.0526	1	16 59 36.101	8 45 57.08	4	9009 CURACAO	8731 4	LT	620
8 12	0 24 26.0529	1	16 58 28.259	7 9 11.67	4	9009 CURACAO	8731 8	LT	621
8 12	0 36 35.2348	1	16 25 32.952	-15 24 13.61	4	9007 AREQUIPA	9748 5	SJ	9296
8 12	0 36 51.2311	1	16 24 11.264	-16 57 25.27	4	9007 AREQUIPA	9748 7	SJ	115
8 12	0 42 42.8140	1	15 27 3.428	-22 35 20.57	4	9011 VILLA DOLO	10223 4	DM	9350
8 12	0 42 58.8137	1	15 25 0.728	-23 56 46.01	4	9011 VILLA DOLO	10223 6	DM	9351
8 12	2 59 41.6267	1	14 42 38.703	33 40 5.01	4	9010 JUPITER	10562 7	PG	947

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 12	5 57 14.4745	1	17 22 14.894	-11 1 14.17	9012 MAUI	10763	3 MY	9998
8 12	5 57 22.4745	1	17 21 41.789	-11 42 12.29	9012 MAUI	10763	5 MY	9999
8 12	11 15 53.8113	1	16 12 31.597	40 9 57.95	9005 TOKYO	8782	6 VD	8656
8 12	11 16 33.8116	1	16 12 23.751	36 8 38.65	9005 TOKYO	8782	11 VD	8657
8 12	16 50 52.6427	1	16 24 54.559	33 44 16.13	9008 SHIRAZ	13454	3 HC	477
8 12	16 51 0.6430	1	16 24 39.952	32 55 39.16	9008 SHIRAZ	13454	5 HC	478
8 12	22 55 53.8817	1	18 13 10.160	-50 15 10.05	9011 VILLA DOLO	10237	7 DM	9352
8 12	22 56 1.8815	1	18 13 29.213	-50 57 43.13	9011 VILLA DOLO	10237	8 DM	9353
8 13	1 11 21.4399	1	17 10 29.715	24 26 57.29	9010 JUPITER	10579	6 PG	2488
8 13	1 11 29.4402	1	17 9 51.734	23 38 2.14	9010 JUPITER	10579	7 PG	949
8 13	1 16 26.2182	1	15 34 33.949	17 38 17.30	9009 CURACAO	8737	8 LT	622
8 13	1 30 21.4940	1	15 8 44.055	-11 7 28.96	9007 AREQUIPA	9763	6 SJ	9298
8 13	1 37 31.4408	1	14 32 36.017	-20 51 13.24	9011 VILLA DOLO	10241	8 DM	9354
8 13	1 37 39.4407	1	14 31 35.470	-21 22 47.30	9011 VILLA DOLO	10241	9 DM	9355
8 13	23 39 54.8821	1	17 51 49.544	-20 58 18.61	9007 AREQUIPA	9778	5 SJ	9299
8 13	23 40 18.9148	1	17 50 54.442	-23 15 41.58	9007 AREQUIPA	9778	8 SJ	9300
8 13	23 45 56.2260	1	16 39 34.455	-30 28 24.38	9011 VILLA DOLO	10253	3 DM	9356
8 13	23 46 4.2259	1	16 38 50.641	-31 14 59.31	9011 VILLA DOLO	10253	4 DM	9357
8 14	2 3 51.9328	1	15 41 11.573	30 43 5.74	9010 JUPITER	10602	3 PG	950
8 14	2 4 15.9337	1	15 41 32.606	28 27 45.86	9010 JUPITER	10602	6 PG	951
8 14	2 7 49.0675	1	14 41 29.840	25 20 50.57	9009 CURACAO	8753	8 LT	623
8 14	2 8 5.0673	1	14 41 59.183	24 12 15.04	9009 CURACAO	8753	10 LT	624
8 14	21 21 41.6305	1	15 31 52.940	38 3 42.53	9004 SAN FERNAN	9855	4 RD	8910
8 14	21 22 5.6310	1	15 33 15.449	35 50 18.02	9004 SAN FERNAN	9855	7 RD	8911
8 15	0 32 39.0002	1	16 20 15.223	-13 26 59.17	9007 AREQUIPA	9799	3 SJ	9301
8 15	0 33 51.0985	1	16 13 48.118	-20 20 4.56	9007 AREQUIPA	9799	12 SJ	9302
8 15	0 38 38.9154	1	15 26 19.304	-19 56 22.38	9011 VILLA DOLO	10275	7 DM	9358
8 15	0 38 46.9154	1	15 25 20.859	-20 36 17.38	9011 VILLA DOLO	10275	8 DM	9359
8 15	5 53 56.8887	1	17 14 44.184	-12 46 45.21	9012 MAUI	10775	3 MY	1
8 15	5 54 4.8888	1	17 14 12.317	-13 26 55.50	9012 MAUI	10775	5 MY	1
8 15	22 54 50.1230	1	18 11 31.774	-64 6 55.96	9011 VILLA DOLO	10285	3 DM	9360
8 15	22 55 22.1226	1	18 13 52.641	-66 41 13.63	9011 VILLA DOLO	10285	7 DM	9361
8 16	6 41 20.6612	1	16 6 17.490	24 25 47.36	9012 MAUI	10797	3 MY	2495
8 16	6 41 28.6609	1	16 6 6.136	23 38 54.08	9012 MAUI	10797	4 MY	3
8 16	17 40 46.0886	1	15 6 31.916	29 59 31.51	9008 SHIRAZ	13529	6 HC	1558
8 16	17 41 2.0898	1	15 7 28.505	28 40 3.08	9008 SHIRAZ	13529	8 HC	480
8 16	20 26 0.9289	1	16 49 23.249	30 25 2.26	9004 SAN FERNAN	9891	3 RD	8568
8 16	20 26 24.9286	1	16 48 12.968	27 59 16.50	9004 SAN FERNAN	9891	6 RD	8569
8 16	23 38 22.1537	1	17 39 27.571	-33 5 48.64	9007 AREQUIPA	9831	5 SJ	9303
8 16	23 38 30.1697	1	17 39 5.117	-33 50 34.06	9007 AREQUIPA	9831	6 SJ	9304
8 16	23 41 54.8049	1	16 34 51.763	-28 0 59.43	9011 VILLA DOLO	10292	2 MY	205
8 16	23 42 10.8047	1	16 33 19.541	-29 33 6.43	9011 VILLA DOLO	10292	4 MY	598
8 17	2 0 24.1618	1	15 36 45.797	29 4 33.65	9010 JUPITER	10632	6 PG	953
8 17	2 5 18.7037	1	14 42 59.618	19 57 55.28	9009 CURACAO	8790	7 LT	625
8 17	7 33 1.0573	1	14 56 27.255	31 1 45.36	9012 MAUI	10819	4 MY	4

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 17	7 33 13.0572	1	14 57 3.287	30 4 38.30	9012 MAUI	10819	7 MY	5
8 18	0 28 57.1061	1	16 14 2.233	-12 52 0.31	9007 AREQUIPA	9847	3 SJ	9305
8 18	0 29 13.1058	1	16 12 37.873	-14 22 46.24	9007 AREQUIPA	9847	5 SJ	9306
8 18	0 34 54.0194	1	15 23 37.347	-18 55 11.08	9011 VILLA DOLO	10308	1 MY	207
8 18	0 35 10.0191	1	15 21 40.942	-20 13 11.69	9011 VILLA DOLO	10308	3 MY	208
8 18	2 56 1.0401	1	16 52 44.194	14 38 56.50	9001 ORGAN PASS	11376	5 SU	9277
8 18	16 43 57.7565	1	16 11 10.230	30 35 26.07	9008 SHIRAZ	13565	3 HC	481
8 18	16 44 21.7573	1	16 10 55.831	28 13 34.34	9008 SHIRAZ	13565	6 HC	482
8 18	22 9 6.5562	1	14 25 56.817	42 48 27.79	9004 SAN FERNAN	9941	3 R0	8570
8 18	22 9 30.5561	1	14 29 41.474	41 5 20.85	9004 SAN FERNAN	9941	6 R0	8571
8 18	22 53 35.4805	1	18 7 21.570	-75 46 56.93	9011 VILLA DOLO	10325	4 HC	492
8 18	22 53 43.4805	1	18 8 15.708	-76 21 27.98	9011 VILLA DOLO	10325	5 HC	493
8 19	1 8 45.1262	1	15 26 32.282	18 56 52.54	9009 CURACAO	8805	8 SJ	368
8 19	1 8 49.1262	1	15 26 30.382	18 36 2.67	9009 CURACAO	8805	9 SJ	369
8 19	1 28 59.4939	1	14 41 6.452	-14 58 22.22	9011 VILLA DOLO	10332	3 SJ	364
8 19	1 29 15.4931	1	14 39 22.388	-15 59 33.21	9011 VILLA DOLO	10332	4 SJ	365
8 19	3 44 56.3638	1	15 32 19.078	40 31 42.69	9001 ORGAN PASS	11382	2 SU	9279
8 19	3 45 12.3635	1	15 33 14.386	39 3 10.45	9001 ORGAN PASS	11382	4 SU	9280
8 19	6 37 28.0974	1	16 0 32.342	25 21 12.93	9012 MAUI	10843	4 MY	594
8 19	6 37 32.0974	1	16 0 28.503	24 58 3.32	9012 MAUI	10843	5 MY	7
8 19	23 37 36.9153	1	16 32 8.135	-23 59 0.21	9011 VILLA DOLO	10336	3 SJ	366
8 19	23 38 0.9147	1	16 29 49.272	-26 15 40.09	9011 VILLA DOLO	10336	6 SJ	367
8 20	4 37 8.3930	1	14 32 47.906	40 25 16.95	9001 ORGAN PASS	11395	5 SU	9281
8 20	7 30 50.5544	1	14 58 47.848	23 26 31.22	9012 MAUI	10863	3 MY	8
8 20	7 31 6.5551	1	14 59 22.910	22 12 44.47	9012 MAUI	10863	5 MY	9
8 20	21 13 47.2979	1	15 21 52.829	39 44 19.78	9004 SAN FERNAN	9977	4 R0	8572
8 20	21 13 55.2978	1	15 22 32.970	39 1 39.83	9004 SAN FERNAN	9977	5 R0	8573
8 21	0 32 2.5699	1	15 14 41.309	-22 8 58.07	9011 VILLA DOLO	10354	5 BN	626
8 21	0 32 10.5696	1	15 13 38.752	-22 46 44.19	9011 VILLA DOLO	10354	6 BN	627
8 21	5 48 24.7656	1	16 56 6.560	-20 59 10.32	9012 MAUI	10883	3 SJ	48
8 21	5 49 4.7657	1	16 53 41.348	-23 56 28.48	9012 MAUI	10883	8 SJ	49
8 21	16 39 50.1470	1	16 5 17.148	32 54 6.39	9008 SHIRAZ	13625	3 HC	483
8 21	16 39 58.1469	1	16 5 18.158	32 7 19.22	9008 SHIRAZ	13625	5 HC	484
8 21	22 4 0.0984	1	14 10 49.249	47 51 16.11	9004 SAN FERNAN	10004	2 R0	8574
8 21	22 4 8.0984	1	14 12 28.095	47 18 50.67	9004 SAN FERNAN	10004	3 R0	8575
8 22	1 4 37.8708	1	15 23 7.909	20 56 15.51	9009 CURACAO	8838	6 SJ	370
8 22	1 4 45.8713	1	15 23 7.105	20 15 37.12	9009 CURACAO	8838	8 SJ	371
8 22	1 18 11.5820	1	15 7 15.652	-4 31 28.09	9007 AREQUIPA	9865	3 SJ	9307
8 22	1 18 51.5817	1	15 4 16.324	-7 30 56.10	9007 AREQUIPA	9865	8 SJ	9308
8 22	6 33 18.3118	1	15 55 10.387	27 49 29.09	9012 MAUI	10899	4 SJ	50
8 22	6 33 30.3118	1	15 55 5.958	26 41 25.06	9012 MAUI	10899	7 SJ	51
8 22	20 19 34.3286	1	16 36 57.315	30 46 42.08	9004 SAN FERNAN	10024	5 R0	8576
8 22	20 18 58.3284	1	16 36 18.873	28 22 52.56	9004 SAN FERNAN	10024	8 R0	8577
8 22	23 34 19.9400	1	16 23 48.085	-25 41 26.01	9011 VILLA DOLO	10366	4 BN	628
8 22	23 34 43.9395	1	16 21 14.139	-27 56 11.13	9011 VILLA DOLO	10366	7 BN	629

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	8 22	23 35 53.1544	16 59 39.208	-57 42 46.58	4	9007 AREQUIPA	9878	9 SU	9292
8 22	23 36 1.1541	16 58 44.958	16 58 44.958	-58 18 19.64	4	9007 AREQUIPA	9878	10 SU	9293
8 23	7 25 30.2192	14 52 50.202	14 52 50.202	30 30 43.82	4	9012 MAUI	10919	6 SJ	52
8 23	7 25 38.2193	14 53 17.505	14 53 17.505	29 54 36.05	4	9012 MAUI	10919	7 SJ	53
8 23	21 10 13.8632	15 19 24.218	15 19 24.218	38 24 18.08	4	9004 SAN FERNAN	10050	2 RO	8578
8 23	21 10 29.8636	15 20 46.041	15 20 46.041	37 0 50.60	4	9004 SAN FERNAN	10050	4 RO	8579
8 24	0 8 15.1392	16 35 29.627	16 35 29.627	16 39 49.83	4	9009 CURACAO	8871	6 LT	643
8 24	0 8 19.1391	16 35 16.496	16 35 16.496	16 16 10.02	4	9009 CURACAO	8871	7 LT	644
8 24	0 28 9.8016	15 13 50.473	15 13 50.473	-20 27 34.45	4	9011 VILLA DOLO	10376	5 LT	630
8 24	0 28 25.8014	15 11 48.524	15 11 48.524	-21 41 21.66	4	9011 VILLA DOLO	10376	7 LT	631
8 24	2 47 49.2496	16 43 32.791	16 43 32.791	19 41 50.44	4	9001 ORGAN PASS	11411	15 SU	9282
8 24	2 48 5.2478	16 42 55.049	16 42 55.049	18 8 28.02	4	9001 ORGAN PASS	11411	17 SU	9283
8 24	4 45 10.0493	7 47 15.841	7 47 15.841	36 29 27.20	4	9004 SAN FERNAN	10073	4 RO	8580
8 24	4 45 18.0496	7 48 19.824	7 48 19.824	37 1 28.39	4	9004 SAN FERNAN	10073	5 RO	1552
8 24	9 42 37.4491	7 39 28.149	7 39 28.149	-21 4 58.94	4	9011 VILLA DOLO	10384	3 LT	632
8 24	9 42 45.4489	7 38 28.482	7 38 28.482	-20 33 50.82	4	9011 VILLA DOLO	10384	4 LT	633
8 24	16 36 25.2270	15 59 49.444	15 59 49.444	31 0 26.82	4	9008 SHIRAZ	13669	4 HC	485
8 24	16 36 33.2273	15 59 54.361	15 59 54.361	30 14 36.68	4	9008 SHIRAZ	13669	5 HC	486
8 25	1 1 37.6247	15 20 2.021	15 20 2.021	17 17 34.46	4	9009 CURACAO	8890	6 PG	9340
8 25	1 1 45.6246	15 20 1.195	15 20 1.195	16 38 12.08	4	9009 CURACAO	8890	7 PG	9341
8 25	1 4 10.6558	16 24 11.465	16 24 11.465	-14 59 15.25	4	9010 JUPITER	10702	7 PG	954
8 25	1 4 18.6560	16 23 51.688	16 23 51.688	-15 33 29.51	4	9010 JUPITER	10702	8 PG	955
8 25	3 37 40.2275	15 24 20.521	15 24 20.521	38 40 30.24	4	9001 ORGAN PASS	11435	7 SU	9284
8 25	6 29 27.9359	15 49 52.304	15 49 52.304	28 22 19.75	4	9012 MAUI	10946	4 SJ	54
8 25	6 29 43.9359	15 49 53.855	15 49 53.855	26 53 29.10	4	9012 MAUI	10946	8 SJ	55
8 25	17 28 24.5813	14 55 49.203	14 55 49.203	34 28 8.41	4	9008 SHIRAZ	13689	6 HC	1559
8 25	17 28 32.5816	14 56 31.015	14 56 31.015	33 51 8.75	4	9008 SHIRAZ	13689	7 HC	487
8 25	20 14 44.1776	16 31 11.580	16 31 11.580	31 33 51.06	4	9004 SAN FERNAN	10094	3 RO	8582
8 25	20 14 52.1769	16 31 3.700	16 31 3.700	30 46 5.98	4	9004 SAN FERNAN	10094	4 RO	8835
8 25	23 30 59.7068	16 15 46.101	16 15 46.101	-26 58 32.11	4	9011 VILLA DOLO	10405	4 LT	634
8 25	23 31 15.7066	16 13 55.077	16 13 55.077	-28 26 56.71	4	9011 VILLA DOLO	10405	6 LT	635
8 25	23 33 4.4347	16 40 26.393	16 40 26.393	-61 4 25.48	4	9007 AREQUIPA	9910	4 SU	8716
8 25	23 33 12.4344	16 39 12.073	16 39 12.073	-61 37 38.04	4	9007 AREQUIPA	9910	5 SU	8717
8 26	0 59 20.2343	7 51 27.392	7 51 27.392	36 50 49.07	4	9008 SHIRAZ	13699	3 SJ	9309
6 27	0 11 19.2218	14 26 45.247	14 26 45.247	39 15 27.87	4	9004 SAN FERNAN	8744	3 BA	2626
8 26	0 59 28.2344	7 52 24.336	7 52 24.336	37 23 14.29	4	9008 SHIRAZ	13699	5 SJ	9310
8 26	4 29 35.2911	14 31 44.292	14 31 44.292	39 37 48.29	4	9001 ORGAN PASS	11449	7 SU	9285
8 26	7 21 57.1383	14 52 20.098	14 52 20.098	29 21 16.16	4	9012 MAUI	10966	2 SJ	56
8 26	7 22 53.1401	14 55 17.144	14 55 17.144	25 14 48.42	4	9012 MAUI	10966	9 SJ	57
8 26	15 36 14.4066	14 55 6.728	14 55 6.728	36 16 28.02	4	9006 NAINI TAL	8453	6 VD	8658
8 26	15 36 22.4072	14 55 51.175	14 55 51.175	35 39 19.47	4	9006 NAINI TAL	8453	7 VD	8659
8 26	21 5 36.0034	15 10 53.974	15 10 53.974	42 34 58.75	4	9004 SAN FERNAN	10123	4 RO	8583
8 27	0 5 4.2582	16 27 19.160	16 27 19.160	13 48 46.35	4	9009 CURACAO	8906	6 BA	9597
8 27	0 5 16.2583	16 26 44.620	16 26 44.620	12 38 37.59	4	9009 CURACAO	8906	9 BA	9598
8 27	0 25 43.9038	15 2 0.811	15 2 0.811	-25 17 16.90	4	9011 VILLA DOLO	10424	8 LT	636

DATE		TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS.NO.				
Y	M	D	H	M	S	MS	H	M	S	D	M	S							
1963	8	27	0	25	51.9036	1	15	0	53.450	-25	52	28.15	4	9011	VILLA DOLO	10424	9	LT	637
	8	27	2	40	26.7980	1	14	36	58.023	33	56	14.80	4	9010	JUPITER	10736	3	PG	956
	8	27	4	42	41.4764	1	7	59	2.846	42	5	2.98	4	9004	SAN FERNAN	10144	3	RO	8584
	8	27	4	42	49.4764	1	8	0	23.126	42	37	27.69	4	9004	SAN FERNAN	10144	4	RO	8585
	8	27	5	40	15.8107	1	16	47	25.498	-16	55	44.67	4	9012	MAUI	10975	4	SJ	58
	8	27	5	40	31.8109	1	16	46	44.766	-17	51	32.61	4	9012	MAUI	10975	7	SJ	59
	8	27	9	38	40.5855	1	7	41	34.956	-22	55	8.88	4	9011	VILLA DOLO	10430	3	LT	638
	8	27	9	38	48.5856	1	7	40	32.313	-22	23	30.75	4	9011	VILLA DOLO	10430	4	LT	639
	8	27	16	24	42.5544	1	15	5	57.336	72	38	46.53	4	9008	SHIRAZ	13720	3	RO	267
	8	27	16	24	50.5545	1	15	8	29.012	72	4	9.01	4	9008	SHIRAZ	13720	4	RO	268
8	27	16	31	30.5646	1	15	53	0.789	37	34	58.97	4	9008	SHIRAZ	13721	4	RO	2489	
8	27	16	31	38.5648	1	15	53	15.266	36	49	52.70	4	9008	SHIRAZ	13721	5	RO	270	
8	28	0	48	26.0125	1	16	45	54.300	51	30	32.13	4	9010	JUPITER	10751	4	PG	9327	
8	28	0	48	34.0121	1	16	45	33.147	50	45	28.56	4	9010	JUPITER	10751	5	PG	9328	
8	28	0	53	2.5627	1	16	35	35.840	24	17	48.95	4	9010	JUPITER	10752	4	PG	9329	
8	28	0	53	10.5626	1	16	35	19.683	23	30	13.42	4	9010	JUPITER	10752	5	PG	9330	
8	28	6	25	36.7225	1	15	44	54.976	28	56	39.12	4	9012	MAUI	10993	3	SJ	60	
8	28	6	26	32.7228	1	15	45	19.397	23	52	22.10	4	9012	MAUI	10993	10	SJ	61	
8	28	17	24	25.9523	1	14	53	15.830	35	9	16.28	4	9008	SHIRAZ	13749	5	RO	591	
8	28	17	24	41.9532	1	14	54	44.493	33	57	4.71	4	9008	SHIRAZ	13749	7	RO	565	
8	28	20	10	23.4878	1	16	25	38.886	35	18	46.50	4	9004	SAN FERNAN	10176	2	RO	9158	
8	28	20	10	35.4879	1	16	25	35.704	33	43	41.66	4	9004	SAN FERNAN	10176	4	RO	9159	
8	29	0	55	37.4852	1	7	51	49.873	37	26	29.71	4	9008	SHIRAZ	13764	5	RO	273	
8	29	0	55	45.4852	1	7	52	46.936	37	59	35.15	4	9008	SHIRAZ	13764	6	RO	274	
8	29	1	43	54.5664	1	15	17	17.598	36	13	54.88	4	9010	JUPITER	10774	8	PG	118	
8	29	1	44	2.5664	1	15	17	49.018	35	33	32.34	4	9010	JUPITER	10774	9	PG	119	
8	29	1	49	6.5587	1	15	28	45.517	10	39	5.88	4	9010	JUPITER	10775	4	PG	9331	
8	29	1	49	14.5585	1	15	28	52.554	10	2	8.81	4	9010	JUPITER	10775	5	PG	9332	
8	29	7	17	42.5498	1	14	49	37.388	31	13	9.69	4	9012	MAUI	11004	3	SJ	62	
8	29	7	17	46.5498	1	14	49	53.124	30	55	57.94	4	9012	MAUI	11004	4	SJ	53	
8	29	21	1	59.0375	1	15	8	57.104	41	29	36.30	4	9004	SAN FERNAN	10203	4	RO	9160	
8	29	21	2	23.0381	1	15	11	38.053	39	30	13.16	4	9004	SAN FERNAN	10203	7	RO	9161	
8	29	23	52	27.7951	1	16	44	8.347	60	57	20.08	4	9009	CURACAO	8939	3	BA	9599	
8	30	0	2	10.9171	1	16	19	2.598	9	21	43.34	4	9009	CURACAO	8941	6	SJ	352	
8	30	0	2	18.9178	1	16	18	41.634	8	36	17.94	4	9009	CURACAO	8941	8	SJ	353	
8	30	0	13	22.5717	1	15	56	52.050	-	6	14	59.48	4	9007	AREQUIPA	9954	5	SU	8718
8	30	0	13	30.5718	1	15	56	12.380	-	6	57	13.28	4	9007	AREQUIPA	9954	6	SU	8719
8	30	0	20	50.5701	1	15	9	57.197	-19	8	43.03	4	9011	VILLA DOLO	10456	5	LT	1553	
8	30	2	28	34.4798	1	12	53	57.847	61	56	0.19	4	9010	JUPITER	10799	8	PG	120	
8	30	4	39	8.5083	1	8	1	19.638	43	26	20.88	4	9004	SAN FERNAN	10225	4	RO	9162	
8	30	4	39	32.5087	1	8	5	35.678	45	4	54.62	4	9004	SAN FERNAN	10225	7	RO	9153	
8	30	5	38	2.5583	1	16	37	27.053	-22	42	18.18	4	9012	MAUI	11020	4	SJ	64	
8	30	5	38	58.5584	1	16	34	19.653	-26	34	3.22	4	9012	MAUI	11020	11	SJ	65	
8	30	16	17	54.5608	1	12	20	21.079	81	51	18.89	4	9008	SHIRAZ	13789	3	RO	275	
8	30	16	18	26.5608	1	13	5	45.014	80	40	36.87	4	9008	SHIRAZ	13789	7	RO	276	

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	8 30	16 21 38.5564	15 5 2.775	68 51 52.73	9008 SHIRAZ	13790	6 RD	277
8 30	16 21 46.5562	1	15 7 11.009	68 16 13.99	9008 SHIRAZ	13790	7 RD	278
8 30	16 24 50.5619	1	15 36 37.074	53 15 51.04	9008 SHIRAZ	13791	5 RD	279
8 30	16 25 14.5628	1	15 38 44.341	51 9 16.59	9008 SHIRAZ	13791	8 RD	280
8 30	16 27 54.5671	1	15 48 1.035	36 36 47.99	9008 SHIRAZ	13792	3 RD	281
8 30	16 28 10.5678	1	15 48 36.434	35 8 15.90	9008 SHIRAZ	13792	5 RD	282
8 30	21 54 8.3158	1	14 27 28.331	40 38 6.56	9004 SAN FERNAN	10234	4 RD	9164
8 30	21 54 16.3163	1	14 28 43.598	40 36 50.56	9004 SAN FERNAN	10234	5 RD	9155
8 31	0 43 46.5494	1	16 37 10.140	56 34 25.17	9010 JUPITER	10818	11 PG	9333
8 31	0 48 34.5583	1	16 30 34.535	28 53 13.55	9010 JUPITER	10819	9 PG	121
8 31	0 48 42.5588	1	16 30 23.081	28 5 48.92	9010 JUPITER	10819	10 PG	9334
8 31	0 52 39.7041	1	15 14 24.651	24 25 28.85	9009 CURACAO	8952	5 SJ	354
8 31	0 52 51.7037	1	15 14 35.506	23 29 2.75	9009 CURACAO	8952	8 SJ	355
8 31	0 53 30.5642	1	16 22 42.316	1 15 38.05	9010 JUPITER	10820	6 PG	9335
8 31	0 53 38.5643	1	16 22 28.165	0 35 7.23	9010 JUPITER	10820	7 PG	9336
8 31	0 57 30.8576	1	16 14 51.939	-16 58 16.19	9010 JUPITER	10821	6 PG	9337
8 31	0 57 38.8579	1	16 14 34.484	-17 30 24.03	9010 JUPITER	10821	7 PG	9338
8 31	0 59 56.2494	1	16 9 13.882	-26 2 43.03	9010 JUPITER	10822	9 PG	9339
8 31	6 23 22.0261	1	15 41 28.934	20 55 37.84	9012 MAUI	11046	6 SJ	66
8 31	6 23 26.0261	1	15 41 30.637	20 34 40.85	9012 MAUI	11046	7 SJ	57
8 31	20 6 22.4121	1	16 19 39.465	37 0 43.38	9004 SAN FERNAN	10254	5 RD	9166
8 31	20 6 38.4123	1	16 19 49.217	35 26 39.36	9004 SAN FERNAN	10254	7 RD	9167
8 31	23 23 8.8194	1	16 8 36.599	-22 56 48.82	9011 VILLA DOLO	10472	4 LT	641
8 31	23 23 32.8191	1	16 5 48.108	-25 5 2.79	9011 VILLA DOLO	10472	7 LT	642
9 1	1 41 38.6252	1	15 19 40.154	28 36 30.52	9010 JUPITER	10857	6 BN	5400
9 1	1 42 2.6263	1	15 20 50.326	26 38 50.60	9010 JUPITER	10857	9 BN	5401
9 1	1 44 58.6219	1	15 26 35.029	12 41 14.24	9010 JUPITER	10858	4 BN	5402
9 1	1 45 30.6198	1	15 27 11.117	10 15 48.35	9010 JUPITER	10858	8 BN	5403
9 1	7 14 20.9227	1	14 50 34.689	29 17 19.35	9012 MAUI	11069	7 SJ	3013
9 1	20 57 57.8604	1	15 4 30.249	42 22 56.41	9004 SAN FERNAN	10273	3 SU	4372
9 2	0 6 26.5785	1	16 6 34.813	10 45 57.58	9007 AREQUIPA	9995	5 VD	2161
9 2	2 36 2.5573	1	14 52 11.960	21 17 52.18	9010 JUPITER	10878	4 BN	5404
9 2	4 35 25.3159	1	8 1 35.779	44 7 36.44	9004 SAN FERNAN	10298	4 SU	4373
9 2	4 35 33.3160	1	8 2 59.678	44 41 20.70	9004 SAN FERNAN	10298	5 SU	4374
9 2	5 35 12.1332	1	16 29 44.177	-25 39 36.06	9012 MAUI	11094	4 MY	3764
9 2	5 35 20.1332	1	16 29 18.038	-26 11 31.39	9012 MAUI	11094	5 MY	3765
9 2	9 31 55.7000	1	7 35 53.951	-22 1 45.55	9011 VILLA DOLO	10493	4 PG	4121
9 2	9 32 3.7003	1	7 34 51.870	-21 28 2.39	9011 VILLA DOLO	10493	5 PG	4122
9 2	9 39 32.1296	1	7 36 10.182	-7 34 58.06	9007 AREQUIPA	10001	3 VD	2931
9 2	16 19 38.5628	1	15 17 55.744	59 59 34.31	9008 SHIRAZ	13871	1 MY	3763
9 2	16 22 58.5708	1	15 39 15.836	42 50 12.83	9008 SHIRAZ	13872	2 DM	5106
9 2	16 23 14.5716	1	15 40 16.077	41 24 1.27	9008 SHIRAZ	13872	4 DM	5107
9 2	16 41 47.2380	1	17 13 37.917	25 40 36.44	9002 OLIFANTS	14314	4 YK	5492
9 3	6 18 8.9707	1	15 36 25.166	28 38 36.25	9012 MAUI	11120	5 MY	3766
9 3	6 18 16.9707	1	15 36 35.933	27 57 1.56	9012 MAUI	11120	6 MY	3767

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	9 27 44.6813	1	16 46 56.463	-15 31 55.34	4	9003 WOOMERA	15652	3 SU	4367
9 3	9 28 4.6810	1	16 45 14.638	-17 22 30.29	4	9003 WOOMERA	15652	8 SU	4368
9 4	1 37 22.5625	1	15 15 38.985	30 56 27.78	4	9010 JUPITER	10899	6 BN	5405
9 4	1 37 46.5634	1	15 17 3.874	29 1 19.49	4	9010 JUPITER	10899	9 3N	5406
9 4	20 54 9.3443	1	15 1 59.247	42 12 6.77	4	9004 SAN FERNAN	10311	4 SU	4375
9 5	16 18 19.3724	1	15 29 48.036	47 12 0.20	4	9008 SHIRAZ	13934	3 DM	5108
9 5	16 18 27.3728	1	15 30 32.269	46 30 40.61	4	9008 SHIRAZ	13934	4 DM	5109
9 5	16 20 59.3741	1	15 40 40.055	33 9 57.27	4	9008 SHIRAZ	13935	4 DM	5110
9 5	16 21 23.3756	1	15 41 44.462	31 3 2.76	4	9008 SHIRAZ	13935	7 DM	5111
9 5	16 43 31.8814	1	16 48 1.471	0 57 34.84	4	9002 OLIFANTS	14358	9 YK	5493
9 5	16 44 25.9284	1	16 43 59.477	-3 46 15.12	4	9002 OLIFANTS	14358	20 YK	5494
9 6	0 42 34.5658	1	16 17 48.951	20 44 31.11	4	9010 JUPITER	10949	9 BN	5407
9 6	0 45 54.5727	1	16 14 45.608	2 56 35.03	4	9010 JUPITER	10950	7 3N	5408
9 6	0 46 2.5731	1	16 14 35.780	2 16 50.55	4	9010 JUPITER	10950	8 3V	5409
9 6	3 22 48.0052	1	15 13 1.465	36 43 12.92	4	9001 URGAN PASS	11507	3 SJ	2996
9 6	6 14 38.5804	1	15 33 14.853	27 18 48.45	4	9012 MAUI	11169	4 MY	3768
9 6	6 14 42.5803	1	15 33 21.118	26 58 34.37	4	9012 MAUI	11169	5 MY	3769
9 6	9 30 35.1957	1	15 49 21.690	-49 51 18.59	4	9003 WOOMERA	15692	5 SU	4359
9 6	9 30 51.1953	1	15 45 57.829	-51 7 24.26	4	9003 WOOMERA	15692	7 SU	4370
9 6	17 12 15.4048	1	14 45 18.030	37 56 59.66	4	9008 SHIRAZ	13958	3 BN	5112
9 6	17 12 23.4051	1	14 46 14.000	37 23 38.86	4	9008 SHIRAZ	13958	4 8V	5113
9 6	19 58 43.9436	1	16 8 21.732	37 50 33.85	4	9004 SAN FERNAN	10342	6 SU	4376
9 6	19 58 51.9435	1	16 8 38.006	37 4 57.54	4	9004 SAN FERNAN	10342	7 SU	4377
9 7	0 43 29.0128	1	7 44 36.447	34 52 32.02	4	9008 SHIRAZ	13973	4 BN	5114
9 7	0 43 45.0133	1	7 46 11.596	36 4 20.11	4	9008 SHIRAZ	13973	6 3V	5115
9 7	4 14 8.6996	10	14 30 12.312	39 28 43.14	4	9001 URGAN PASS	11526	7 SJ	2997
9 7	9 0 10.5562	1	7 56 0.229	27 43 1.90	4	9010 JUPITER	10972	9 BN	5410
9 7	9 0 26.5567	1	7 57 18.531	28 44 41.84	4	9010 JUPITER	10972	11 BN	7112
9 7	11 42 50.2875	10	7 2 22.301	12 33 5.31	4	9001 URGAN PASS	11541	3 SJ	2998
9 7	11 43 14.2873	10	7 2 57.350	14 25 52.08	4	9001 URGAN PASS	11541	6 SJ	2999
9 7	20 50 28.4498	1	15 0 54.759	41 25 37.69	4	9004 SAN FERNAN	10365	6 SU	4378
9 7	20 50 44.4498	1	15 3 0.956	40 11 47.48	4	9004 SAN FERNAN	10365	8 SU	4379
9 7	23 52 2.5881	1	16 19 11.469	40 45 39.04	4	9007 AREQUIPA	10033	8 VD	2152
9 7	23 53 54.5791	1	16 14 30.408	33 39 32.44	4	9007 AREQUIPA	10034	5 MY	3755
9 8	0 3 14.9783	1	15 40 29.329	-9 23 26.96	4	9007 AREQUIPA	10036	3 MY	3756
9 8	0 10 39.0058	1	15 1 5.003	-20 26 31.94	4	9011 VILLA DOLLO	10508	4 PG	4953
9 8	0 10 47.0055	1	15 0 5.403	-20 58 43.97	4	9011 VILLA DOLLO	10508	5 PG	4123
9 8	4 27 19.2548	1	7 54 36.904	42 38 9.14	4	9004 SAN FERNAN	10379	4 SU	4380
9 8	4 27 51.2549	1	7 59 46.537	45 0 51.75	4	9004 SAN FERNAN	10379	8 SU	4381
9 8	9 33 28.6602	1	7 28 52.446	-2 47 55.35	4	9007 AREQUIPA	10044	3 MY	3757
9 8	9 33 36.6604	1	7 28 19.641	-2 12 53.85	4	9007 AREQUIPA	10044	4 MY	3758
9 8	9 53 35.3971	1	7 25 27.326	32 3 49.95	4	9010 JUPITER	10986	5 BN	5412
9 8	9 53 59.3999	1	7 27 2.789	34 1 55.55	4	9010 JUPITER	10986	8 3N	5413
9 8	15 15 40.4697	1	7 3 47.603	-5 36 52.75	4	9012 MAUI	11179	1 MY	3770
9 8	16 45 3.8748	1	16 14 9.530	-26 39 22.34	4	9002 OLIFANTS	14409	9 YK	5495

DATE Y M D	TIME (A-1)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			RMS S	STATION	FRAME NO.	MS	OBS. NO.
	H	M	S		H	M	S	D	M	S					
1963 9 8	16	45	27.8746	1	16 11	17.788		-28 47	35.25	4	9002	OLIFANTS	14409	15	YK
9 9	6 11	57.8446	1	15 31	54.204		21 57	26.45	4	9012	MAUI	11183	5	MY	5496
9 9	9 30	51.3794	1	14 29	45.550		-64 37	44.18	4	9003	WOOMERA	15750	5	SU	3771
9 9	9 30	59.3793	1	14 26	13.727		-65 3	3.64	4	9003	WOOMERA	15750	7	SU	4949
9 9	14 24	57.3685	1	15 37	6.008		35 36	49.39	4	9006	VAINI TAL	8475	8	HC	1808
9 9	14 25	5.3686	1	15 37	33.876		34 55	17.47	4	9006	NAINI TAL	8475	9	HC	1809
9 9	17 8	31.0079	1	14 45	18.928		37 28	49.98	4	9008	SHIRAZ	14010	5	LT	5116
9 9	17 8	39.0081	1	14 46	15.128		36 56	20.03	4	9008	SHIRAZ	14010	6	LT	5117
9 10	0 40	55.7182	1	7 51	4.656		40 44	28.46	4	9008	SHIRAZ	14021	3	BN	5118
9 10	0 41	3.7191	1	7 52	2.500		41 20	49.98	4	9008	SHIRAZ	14021	4	PK	5119
9 10	11 41	35.1333	1	7 4	40.952		24 43	55.03	4	9001	ORGAN PASS	11586	4	SJ	3000
9 10	14 26	21.4773	1	7 50	48.205		29 20	41.50	4	9012	MAUI	11215	3	MY	3772
9 10	14 26	53.4784	1	7 52	56.391		31 36	41.81	4	9012	MAUI	11215	5	MY	4951
9 10	15 16	47.5620	1	14 46	53.374		37 16	25.54	4	9006	NAINI TAL	8490	4	HC	1810
9 10	15 17	27.5632	1	14 51	16.554		34 33	6.50	4	9006	NAINI TAL	8490	9	HC	1811
9 10	20 46	10.8378	1	14 54	55.089		43 25	40.37	4	9004	SAN FERNAN	10419	3	SU	4382
9 10	20 46	18.8377	1	14 56	7.859		42 49	54.02	4	9004	SAN FERNAN	10419	4	SU	4383
9 10	22 48	38.2724	1	7 50	47.296		39 0	6.67	4	9006	NAINI TAL	8499	7	BA	2860
9 10	22 49	2.2907	1	7 53	34.428		40 48	50.95	4	9006	NAINI TAL	8499	10	BA	2851
9 11	4 23	22.2450	1	7 51	43.801		42 15	24.21	4	9004	SAN FERNAN	10430	3	SU	4384
9 11	4 23	38.2451	1	7 54	7.179		43 28	53.19	4	9004	SAN FERNAN	10430	5	SU	4385
9 11	9 49	45.6650	1	7 22	33.326		31 56	8.60	4	9010	JUPITER	11028	4	BN	5414
9 11	9 50	9.6674	1	7 24	0.528		33 57	8.54	4	9010	JUPITER	11028	7	BN	5415
9 11	16 13	8.0912	1	15 32	31.267		34 38	14.33	4	9008	SHIRAZ	14043	5	VD	5120
9 11	16 13	16.0914	1	15 33	1.769		33 57	49.15	4	9008	SHIRAZ	14043	7	VD	5121
9 11	16 49	35.1331	1	14 24	37.778		-61 29	35.60	4	9002	OLIFANTS	14458	22	YK	5497
9 12	0 38	12.3211	1	15 9	10.524		21 46	6.32	4	9009	CURACAO	9004	10	VD	2167
9 12	14 21	3.4689	1	15 33	1.785		36 8	37.01	4	9006	NAINI TAL	8518	3	BA	2862
9 12	14 21	51.4705	1	15 35	59.708		32 5	17.11	4	9006	NAINI TAL	8518	9	BA	2863
9 14	1 23	36.5715	1	6 35	29.373		7 50	17.59	4	9008	SHIRAZ	14091	5	BN	5122
9 14	5 17	9.5225	1	16 21	10.574		- 9 5	11.19	4	9012	MAUI	11273	6	DM	3613
9 14	5 17	13.5226	1	16 21	2.023		- 9 23	46.82	4	9012	MAUI	11273	7	DM	3614
9 14	16 47	10.0065	1	13 52	28.979		-63 27	9.27	4	9002	OLIFANTS	14512	10	YK	5517
9 14	16 48	6.0061	1	13 27	54.143		-65 33	54.85	4	9002	OLIFANTS	14512	17	YK	5518
9 15	5 12	10.3327	1	6 40	31.994		43 56	38.71	4	9004	SAN FERNAN	10455	5	SJ	4386
9 15	5 12	34.3331	1	6 41	37.904		46 16	46.99	4	9004	SAN FERNAN	10455	8	SJ	4387
9 15	23 2	21.7162	1	16 4	11.931		- 7 51	52.77	4	9011	VILLA DOLO	10554	7	PG	4124
9 15	23 2	29.7165	1	16 3	26.565		- 8 29	46.92	4	9011	VILLA DOLO	10554	8	PG	4125
9 16	9 43	22.8316	3	16 28	3.932		9 58	40.25	4	9005	TOKYO	8889	6	HC	1806
9 16	9 43	38.8321	3	16 27	57.546		8 39	58.17	4	9005	TOKYO	8889	7	HC	1807
9 17	1 25	10.7747	1	6 28	40.983		37 51	36.13	4	9008	SHIRAZ	14132	8	VD	2163
9 17	9 40	11.3630	1	6 30	16.497		47 53	15.98	4	9009	CURACAO	9047	4	LD	6423
9 17	9 40	15.3632	1	6 30	11.864		48 13	19.84	4	9009	CURACAO	9047	5	LD	6424
9 17	23 38	9.1426	1	6 40	35.641		65 17	30.93	4	9006	NAINI TAL	8544	4	BA	2864
9 17	23 38	49.1440	1	6 43	57.339		68 36	13.75	4	9006	NAINI TAL	8544	9	BA	2865

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 VD.	MS	OBS. NO.
1963	9 18	5 14 54.9705	7 32 19.843	79 3 36.94	4	9004 SAN FERNAN	10473	4 SJ	4388
	9 18	5 15 2.9704	7 37 6.219	79 38 36.71	4	9004 SAN FERNAN	10473	5 SJ	4389
	9 18	23 4 20.0657	15 18 48.903	-33 30 47.41	4	9011 VILLA DOLO	10628	8 PG	4126
	9 18	23 4 28.0657	15 17 28.564	-34 5 49.49	4	9011 VILLA DOLO	10628	9 PG	4127
	9 19	11 32 6.2062	6 57 42.793	34 35 1.14	4	9001 ORGAN PASS	11690	3 SJ	3001
	9 19	11 32 14.2054	6 58 1.692	35 20 10.93	4	9001 ORGAN PASS	11690	4 SJ	3002
	9 19	23 47 32.3030	15 34 58.817	-2 51 35.27	4	9007 AREQUIPA	10165	4 MY	3759
	9 19	23 47 48.3025	15 33 51.230	-4 2 44.24	4	9007 AREQUIPA	10165	5 MY	3760
	9 20	1 15 58.8536	6 27 31.174	6 17 36.59	4	9008 SHIRAZ	14175	2 VD	3680
	9 20	1 16 38.8549	6 26 38.300	9 52 37.70	4	9008 SHIRAZ	14175	7 VD	2164
	9 20	2 11 46.1296	15 58 3.423	34 28 58.58	4	9001 ORGAN PASS	11692	4 SJ	3003
	9 20	2 12 10.1298	15 59 10.894	32 21 9.39	4	9001 ORGAN PASS	11692	7 SJ	3004
	9 20	4 12 0.4102	7 45 7.363	43 17 47.65	4	9004 SAN FERNAN	10506	5 SJ	4390
	9 20	4 12 8.4104	7 46 11.917	43 57 21.58	4	9004 SAN FERNAN	10506	6 SJ	4391
	9 20	16 2 5.9267	15 26 1.298	32 54 18.67	4	9008 SHIRAZ	14177	10 VD	2165
	9 20	23 26 36.1836	6 27 28.872	20 42 40.62	4	9006 NAINI TAL	8589	4 BA	2866
	9 20	23 26 44.1836	6 27 21.299	21 29 26.89	4	9006 NAINI TAL	8589	5 BA	2867
	9 21	3 3 20.3628	15 2 11.067	38 5 21.53	4	9001 ORGAN PASS	11711	5 SJ	3005
	9 21	3 3 44.3633	15 4 58.901	36 23 35.72	4	9001 ORGAN PASS	11711	8 SJ	3006
	9 21	5 2 58.4803	6 26 19.852	33 58 42.17	4	9004 SAN FERNAN	10523	5 SJ	4392
	9 21	5 3 30.4808	6 26 26.262	37 10 56.80	4	9004 SAN FERNAN	10523	9 SJ	4393
	9 21	5 55 0.3595	15 19 9.896	30 46 36.51	4	9012 MAUI	11329	3 DM	3615
	9 21	5 55 16.3597	15 20 2.451	29 35 8.36	4	9012 MAUI	11329	5 DM	3616
	9 21	10 36 45.1860	7 58 37.161	39 6 36.23	4	9001 ORGAN PASS	11721	4 SJ	3007
	9 21	10 37 17.1833	8 2 39.095	41 32 54.66	4	9001 ORGAN PASS	11721	8 SJ	3008
	9 22	0 24 8.5387	7 32 17.816	33 51 24.50	4	9008 SHIRAZ	14199	5 MY	3605
	9 22	0 24 12.5389	7 32 34.217	34 11 45.06	4	9008 SHIRAZ	14199	6 MY	3606
	9 22	3 16 4.8795	8 26 42.030	42 26 34.83	4	9004 SAN FERNAN	10535	3 SJ	4395
	9 22	3 16 44.8799	8 34 0.726	45 3 36.40	4	9004 SAN FERNAN	10535	8 SJ	4395
	9 22	11 28 20.3957	6 52 42.793	34 38 29.85	4	9001 ORGAN PASS	11736	4 SJ	3009
	9 22	11 28 28.3960	6 52 56.838	35 24 29.35	4	9001 ORGAN PASS	11736	5 SJ	3010
	9 22	14 10 49.4708	7 44 31.373	28 3 51.27	4	9012 MAUI	11349	7 VD	3617
	9 22	14 10 57.4709	7 44 54.078	28 41 43.39	4	9012 MAUI	11349	8 VD	3618
	9 22	20 30 38.7943	14 47 54.677	43 40 22.16	4	9004 SAN FERNAN	10549	3 SJ	4396
	9 22	20 30 46.7941	14 49 15.831	43 8 9.24	4	9004 SAN FERNAN	10549	4 SJ	4397
	9 22	22 32 36.1747	7 36 35.408	35 48 42.31	4	9006 NAINI TAL	8614	6 BA	2868
	9 22	22 32 44.1745	7 37 12.658	36 29 8.28	4	9006 NAINI TAL	8614	7 BA	2869
	9 22	23 30 34.7735	15 46 30.069	20 33 2.09	4	9009 CURACAO	9065	7 LD	6425
	9 22	23 30 46.7737	15 46 30.375	19 34 35.79	4	9009 CURACAO	9065	10 LD	7109
	9 23	4 7 52.0435	7 39 30.006	41 50 10.14	4	9004 SAN FERNAN	10558	4 BN	4398
	9 23	4 8 C.0437	7 40 26.662	42 30 55.12	4	9004 SAN FERNAN	10558	5 BN	4399
	9 23	9 4 34.5600	7 35 54.462	-35 34 1.39	4	9011 VILLA DOLO	10705	5 PG	4128
	9 23	9 4 42.5597	7 34 30.831	-34 55 49.34	4	9011 VILLA DOLO	10705	6 PG	4129
	9 23	9 25 58.6544	6 29 55.251	9 58 37.72	4	9009 CURACAO	9075	5 LD	6427
	9 23	9 26 10.6551	6 29 22.845	11 9 3.46	4	9009 CURACAO	9075	8 LD	6428

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 9 23	9 35 44.2250	1	7 9 56.088	38 14 26.66	9010 JUPITER	11096	7 BN	5416
9 23	15 2 37.3605	1	6 39 10.231	21 47 7.75	9012 MAJI	11363	3 VD	3619
9 23	15 2 41.3570	1	6 39 5.487	22 10 28.94	9012 MAJI	11363	4 VD	6283
9 23	23 24 19.7318	1	6 19 58.464	29 16 22.99	9006 NAINI TAL	8632	5 BA	2870
9 23	23 24 43.0556	1	6 19 26.599	31 37 54.69	9006 NAINI TAL	8632	9 BA	2871
9 23	23 29 48.3192	1	8 25 33.795	41 1 58.35	9008 SHIRAZ	14232	4 VD	6282
9 24	5 51 1.8267	1	15 17 2.744	31 32 25.65	9012 MAJI	11367	4 VD	3621
9 24	5 51 9.8271	1	15 17 32.077	30 57 32.60	9012 MAJI	11367	6 VD	6284
9 24	10 32 33.1391	1	7 54 7.297	37 29 0.86	9001 ORGAN PASS	11751	6 SJ	3011
9 24	10 33 5.1380	10	7 57 43.759	39 59 41.90	9001 ORGAN PASS	11751	10 SJ	3012
9 24	14 6 13.2771	1	15 24 2.935	34 17 16.48	9006 NAINI TAL	8639	8 BA	2872
9 24	19 34 57.3237	10	15 36 42.116	43 24 12.31	9004 SAN FERNAN	10584	3 SJ	4400
9 24	19 35 13.3235	10	15 38 28.177	42 3 46.70	9004 SAN FERNAN	10584	5 SJ	4401
9 24	21 37 25.3183	1	8 23 31.516	39 6 2.19	9006 NAINI TAL	8645	3 BA	2873
9 24	21 37 57.3191	1	8 27 55.857	41 13 31.96	9006 NAINI TAL	8645	7 BA	3679
9 25	3 12 17.1212	1	8 26 50.081	42 49 25.43	9004 SAN FERNAN	10591	4 SJ	4402
9 25	3 12 41.1214	1	8 31 7.726	44 26 8.78	9004 SAN FERNAN	10591	7 SJ	4403
9 25	8 30 27.8820	1	7 33 12.354	19 5 33.29	9009 CJRACAO	9096	3 LD	6429
9 25	8 30 47.8823	1	7 33 18.306	20 44 7.13	9009 CJRACAO	9096	8 LD	6430
9 25	11 24 19.7100	1	6 47 2.443	33 11 45.94	9001 ORGAN PASS	11771	3 YK	5481
9 25	11 24 27.7101	1	6 47 10.572	33 58 30.14	9001 ORGAN PASS	11771	5 YK	5482
9 25	14 7 12.6254	1	7 42 51.057	28 57 58.99	9012 MAJI	11383	8 PG	4132
9 25	14 7 20.6258	1	7 43 13.056	29 36 36.98	9012 MAJI	11383	9 PG	4133
9 25	20 26 36.9909	1	14 45 18.035	44 16 54.16	9004 SAN FERNAN	10604	5 HC	1793
9 25	20 27 0.9910	1	14 49 27.595	42 42 48.86	9004 SAN FERNAN	10604	8 HC	1794
9 25	23 26 44.3046	1	15 43 44.713	21 6 24.20	9009 CURACAO	9101	4 LD	6431
9 25	23 26 56.3049	1	15 43 48.379	20 9 22.86	9009 CURACAO	9101	7 LD	6432
9 26	2 4 29.5382	1	15 51 39.574	33 6 21.33	9001 ORGAN PASS	11779	6 YK	5483
9 26	2 4 45.5383	1	15 52 35.367	31 45 1.75	9001 ORGAN PASS	11779	8 YK	5484
9 26	4 3 55.1564	1	7 35 5.393	41 15 40.25	9004 SAN FERNAN	10614	3 HC	1795
9 26	4 4 3.1561	1	7 35 56.450	41 57 21.66	9004 SAN FERNAN	10614	4 HC	1796
9 26	9 22 51.8446	1	6 21 57.518	13 17 38.53	9009 CURACAO	9110	6 LD	6433
9 26	9 22 55.8451	1	6 21 45.307	13 41 36.22	9009 CURACAO	9110	7 LD	6434
9 26	9 30 20.8196	1	7 2 1.996	29 15 25.61	9010 JUPITER	11106	4 BN	5417
9 26	9 30 28.8199	1	7 2 11.112	30 0 33.93	9010 JUPITER	11106	5 BN	5418
9 26	23 20 58.7949	1	6 12 38.993	31 29 57.52	9006 NAINI TAL	8671	4 BA	2875
9 26	23 21 22.7958	1	6 11 49.648	33 57 16.03	9006 NAINI TAL	8671	7 BA	2876
9 26	23 26 29.5266	1	8 29 37.580	43 23 33.67	9008 SHIRAZ	14282	9 MY	3604
9 27	2 55 25.9800	1	14 58 49.702	38 58 26.42	9001 ORGAN PASS	11801	7 YK	5485
9 27	2 55 33.9805	1	14 59 52.543	38 26 11.34	9001 ORGAN PASS	11801	8 YK	5486
9 27	4 56 50.9497	1	6 12 23.374	42 9 9.29	9004 SAN FERNAN	10635	6 HC	1797
9 27	4 57 6.9499	1	6 12 1.591	43 47 31.68	9004 SAN FERNAN	10635	8 HC	1798
9 27	10 14 19.7617	1	6 4 24.374	-21 55 21.79	9010 JUPITER	11122	5 PG	4137
9 27	10 14 27.7621	1	6 3 59.578	-21 22 17.50	9010 JUPITER	11122	6 PG	4138
9 27	10 28 52.7437	1	7 52 48.244	38 18 3.73	9001 ORGAN PASS	11808	5 YK	5816

DATE			TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS. NO.		
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S						
1963	9	27	10	29	0.7438	1	7	53	39.407	38	56	40.17	4	9001	ORGAN PASS	11808	6	YK	5487
	9	27	14	2	41.6427	1	15	23	43.139	33	1	44.80	4	9006	NAINI TAL	8673	6	BA	2877
	9	27	14	3	5.6441	1	15	25	37.280	31	14	24.41	4	9006	NAINI TAL	8673	9	BA	2878
	9	27	19	31	40.9805	1	15	36	54.104	40	41	26.36	4	9004	SAN FERNAN	10641	3	HC	1799
	9	27	21	32	59.1085	1	8	18	40.539	36	48	43.36	4	9006	NAINI TAL	8681	5	VD	2153
9	27	21	33	15.1092	1	8	20	34.835	37	54	52.46	4	9006	NAINI TAL	8681	7	VD	2930	
9	28	0	17	19.0599	1	7	28	15.296	38	2	54.92	4	9008	SHIRAZ	14302	5	MY	3607	
9	28	0	17	27.0606	1	7	28	48.280	38	45	28.71	4	9008	SHIRAZ	14302	6	MY	3608	
9	28	3	8	34.6397	1	8	27	36.366	43	34	34.78	4	9004	SAN FERNAN	10652	5	HC	1800	
9	28	3	8	42.6397	1	8	29	0.991	44	7	38.18	4	9004	SAN FERNAN	10652	6	HC	1801	
9	28	8	26	7.5087	1	7	30	30.937	16	6	0.79	4	9009	CURACAO	9122	3	LD	6435	
9	28	8	26	55.5093	1	7	30	27.160	20	8	12.62	4	9009	CURACAO	9122	9	LD	7111	
9	28	8	34	58.6809	1	8	0	25.785	34	28	27.06	4	9010	JUPITER	11132	7	PG	4139	
9	28	14	2	44.6707	1	7	38	47.182	25	39	59.07	4	9012	MAUI	11410	2	PG	4134	
9	28	14	2	48.6718	1	7	38	55.105	25	59	52.72	4	9012	MAUI	11410	3	PG	4135	
9	28	20	22	54.1750	1	14	46	18.380	43	38	36.91	4	9004	SAN FERNAN	10669	3	HC	1802	
9	28	20	23	2.1751	1	14	47	42.083	43	8	1.51	4	9004	SAN FERNAN	10669	4	HC	1803	
9	28	22	25	30.7247	1	7	31	39.202	38	41	18.35	4	9006	NAINI TAL	8701	7	VD	2154	
9	28	22	25	38.7250	1	7	32	14.187	39	23	24.14	4	9006	NAINI TAL	8701	8	VD	2155	
9	28	23	23	53.8114	1	15	41	43.775	16	59	32.98	4	9009	CURACAO	9127	8	LD	6436	
9	28	23	23	57.8113	1	15	41	44.487	16	41	8.36	4	9009	CURACAO	9127	9	LD	6437	
9	29	2	0	20.4175	1	15	47	3.763	34	58	58.90	4	9001	ORGAN PASS	11829	3	YK	5817	
9	29	2	0	28.4194	1	15	47	37.767	34	19	6.23	4	9001	ORGAN PASS	11829	4	YK	5818	
9	29	3	59	32.7759	1	7	28	9.584	38	21	35.43	4	9004	SAN FERNAN	10679	3	HC	1804	
9	29	3	59	40.7757	1	7	28	50.765	39	4	17.28	4	9004	SAN FERNAN	10679	4	HC	1805	
9	29	8	57	17.0522	1	7	26	54.948	-37	13	11.05	4	9011	VILLA DOLO	10731	5	PG	4130	
9	29	8	57	25.0520	1	7	25	31.817	-36	33	2.40	4	9011	VILLA DOLO	10731	6	PG	4131	
9	29	9	6	48.1703	1	7	14	40.100	-9	50	18.40	4	9007	AREQUIPA	10339	2	MY	3761	
9	29	9	7	12.1703	1	7	12	34.770	-7	44	52.23	4	9007	AREQUIPA	10339	4	MY	3762	
9	29	9	18	25.4896	1	6	17	41.003	8	40	31.61	4	9009	CURACAO	9140	4	LD	6438	
9	29	9	18	41.4895	1	6	16	47.918	10	16	46.76	4	9009	CURACAO	9140	8	LD	6439	
9	29	12	2	26.6110	1	5	52	51.541	-26	51	41.86	4	9001	ORGAN PASS	11855	4	YK	5490	
9	29	12	2	58.6111	1	5	51	13.279	-24	55	56.93	4	9001	ORGAN PASS	11855	8	YK	5491	
9	29	15	49	33.4211	1	15	14	40.464	37	50	41.65	4	9008	SHIRAZ	14318	6	DM	3609	
9	29	15	49	57.4215	1	15	17	8.475	36	6	23.37	4	9008	SHIRAZ	14318	9	DM	3610	
9	29	23	14	47.8736	1	6	11	48.677	16	24	57.09	4	9006	NAINI TAL	8719	9	VD	2156	
9	29	23	14	55.8737	1	6	11	29.513	17	12	28.49	4	9006	NAINI TAL	8719	10	VD	2157	
9	29	23	21	8.6035	1	8	16	35.960	37	17	57.43	4	9008	SHIRAZ	14328	4	DM	3611	
9	29	23	21	16.6038	1	8	17	32.349	37	52	5.55	4	9008	SHIRAZ	14328	5	DM	3612	
9	30	5	43	56.4670	1	15	16	56.252	29	21	29.99	4	9012	MAUI	11420	6	PG	4954	
9	30	13	58	51.0861	1	15	22	9.802	33	11	28.39	4	9006	NAINI TAL	8727	10	VD	2158	
9	30	21	28	57.5174	1	8	16	45.213	36	8	6.40	4	9006	NAINI TAL	8735	5	VD	2159	
9	30	21	29	29.5187	1	8	20	27.546	38	23	32.73	4	9006	NAINI TAL	8735	9	VD	2160	

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 1 0 25 4.7007	1	20 35 47.210	10 16 23.61	9004 SAN FERNAN	8809	4 JW	221
	7 1 0 35 28.7007	1	20 42 47.750	11 13 21.90	9004 SAN FERNAN	8809	6 JW	7789
	7 1 5 49 15.8354	1	18 30 40.864	44 50 23.66	9009 CJRACAD	8125	2 KA	8950
	7 1 5 49 27.8349	1	18 33 53.774	45 34 25.93	9009 CJRACAD	8125	5 KA	8951
	7 1 5 50 16.8253	1	20 14 25.686	25 27 34.01	9010 JUPITER	9844	2 AC	7233
	7 1 5 50 40.8259	1	20 22 28.506	26 38 45.44	9010 JUPITER	9844	5 AC	7234
	7 1 21 37 42.3179	1	17 47 30.507	38 45 17.13	9010 JUPITER	9848	3 AC	8236
	7 1 21 37 42.7461	1	19 19 20.444	26 3 12.69	9008 SHIRAZ	12652	2 KA	7865
	7 1 21 37 57.0718	1	19 23 43.508	26 53 5.41	9008 SHIRAZ	12652	5 KA	7866
	7 2 0 13 19.9559	1	20 23 13.007	8 21 8.34	9004 SAN FERNAN	8827	3 JW	7790
	7 2 0 13 43.9561	1	20 29 37.431	9 15 20.65	9004 SAN FERNAN	8827	6 JW	222
	7 2 2 56 10.2895	1	18 18 42.574	20 35 59.20	9004 SAN FERNAN	8839	3 JW	7792
	7 2 2 56 26.2895	1	18 21 53.748	21 27 6.72	9004 SAN FERNAN	8839	5 JW	7793
	7 2 10 42 51.6211	1	19 27 38.023	30 3 46.17	9012 MAJI	10030	1 EM	7847
	7 2 10 43 15.6212	1	19 34 44.462	31 18 47.61	9012 MAJI	10030	4 EM	7848
	7 3 0 4 56.0405	1	18 6 45.231	49 2 18.92	9008 SHIRAZ	12683	5 KA	7867
	7 3 2 35 49.4754	1	18 29 42.563	23 5 11.67	9004 SAN FERNAN	8865	4 JW	7794
	7 3 2 36 21.4756	1	18 37 14.271	24 52 37.05	9004 SAN FERNAN	8865	7 JW	7795
	7 3 5 5 27.0446	1	18 24 0.149	38 31 30.12	9009 CJRACAD	8147	1 KA	8952
	7 3 5 5 51.0448	1	18 29 53.341	39 50 16.57	9009 CJRACAD	8147	4 KA	8953
	7 3 7 44 53.8475	1	18 44 46.294	13 35 27.90	9001 ORGAN PASS	10925	3 JW	8938
	7 3 7 45 5.8447	1	18 47 30.171	14 9 19.01	9001 ORGAN PASS	10925	6 JW	9200
	7 3 23 42 32.3351	1	17 53 3.104	43 36 5.56	9008 SHIRAZ	12704	3 KA	7868
	7 3 23 42 51.4918	1	17 56 39.813	44 59 48.62	9008 SHIRAZ	12704	5 KA	7869
	7 4 23 20 31.2604	1	17 44 30.259	40 23 6.04	9008 SHIRAZ	12726	2 KA	7870
	7 4 23 20 36.0458	1	17 45 20.640	40 42 4.73	9008 SHIRAZ	12726	3 KA	7871
	7 8 3 39 42.0656	1	18 25 23.178	44 16 11.48	9004 SAN FERNAN	8996	4 JW	223
	7 8 3 39 50.0656	1	18 27 42.727	44 48 31.91	9004 SAN FERNAN	8996	5 JW	7797
	7 9 3 17 53.0411	1	18 13 40.268	42 7 22.62	9004 SAN FERNAN	9032	2 JW	7798
	7 9 3 18 17.0413	1	18 20 12.773	43 38 8.32	9004 SAN FERNAN	9032	5 JW	7799
	7 9 5 38 41.3208	1	16 59 54.484	19 15 45.55	9010 JUPITER	9974	3 KA	7236
	7 9 5 39 13.3216	1	17 4 32.304	20 38 54.26	9010 JUPITER	9974	5 KA	7237
	7 9 8 23 1.4192	1	17 18 22.695	26 25 47.76	9001 ORGAN PASS	10998	4 JW	214
	7 9 8 23 17.4172	1	17 20 55.586	27 10 57.80	9001 ORGAN PASS	10998	6 JW	215
	7 10 8 0 45.2846	1	17 9 10.612	23 48 18.23	9001 ORGAN PASS	11021	3 JW	216
	7 10 8 1 17.2788	1	17 14 5.882	25 13 16.61	9001 ORGAN PASS	11021	7 JW	217
	7 10 10 57 6.3515	1	18 40 48.697	59 24 23.53	9001 ORGAN PASS	11031	5 JW	218
	7 10 10 57 14.3523	1	18 44 16.324	60 2 41.74	9001 ORGAN PASS	11031	7 JW	536
	7 10 21 8 24.4725	1	17 2 23.575	26 12 47.16	9008 SHIRAZ	12851	5 KA	7872
	7 11 0 5 34.1812	1	18 30 38.604	65 7 57.13	9008 SHIRAZ	12862	5 KA	7873
	7 11 4 54 33.8939	1	16 49 48.434	15 23 22.25	9010 JUPITER	9994	4 KA	7238
	7 11 4 55 5.8846	1	16 54 21.249	16 39 46.60	9010 JUPITER	9994	6 KA	7239
	7 11 7 52 3.2134	1	17 24 3.422	54 7 10.38	9010 JUPITER	9997	2 TA	7240
	7 12 1 39 9.4069	1	16 36 54.017	- 2 57 9.45	9009 CJRACAD	8310	2 KA	8954
	7 12 1 39 33.4068	1	16 40 0.697	- 2 6 20.21	9009 CJRACAD	8310	5 KA	8955

DATE			TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS. NO.			
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S							
1963	7	12	2	12	20.8857	1	17	44	5.778	36	37	45.93	4	9004	SAN FERNAN	9104	2	JW	7800	
	7	12	2	13	24.8859	1	17	59	6.760	39	59	34.12	4	9004	SAN FERNAN	9104	6	JW	7801	
	7	12	9	0	31.2981	1	14	48	26.644	-20	20	57.36	4	9003	WOODERA	14990	4	JW	7786	
	7	12	9	1	3.2978	1	14	53	18.719	-19	11	53.83	4	9003	WOODERA	14990	8	JW	7787	
	7	12	9	46	17.1692	1	16	12	40.291	16	51	28.37	4	9012	MAUI	10249	1	EM	7849	
	7	13	1	16	45.7006	1	16	31	43.367	-	5	16	49.66	4	9009	CJACAO	8325	2	KA	8956
	7	13	1	16	53.7006	1	16	32	44.248	-	5	0	9.09	4	9009	CJACAO	8325	3	KA	8957
	7	13	1	49	47.8474	1	17	27	33.996	33	6	29.68	4	9004	SAN FERNAN	9134	3	AM	7652	
	7	13	1	50	3.8474	1	17	30	38.675	33	51	20.01	4	9004	SAN FERNAN	9134	5	AM	7653	
	7	13	9	24	17.2279	1	16	9	9.989	15	22	42.33	4	9012	MAUI	10267	4	EM	7850	
7	13	9	24	25.2279	1	16	10	8.164	15	40	44.02	4	9012	MAUI	10267	5	KA	7851		
7	14	1	27	20.7582	1	17	13	51.226	30	12	42.97	4	9004	SAN FERNAN	9159	3	AM	7654		
7	14	1	28	8.7584	1	17	22	30.647	32	18	44.40	4	9004	SAN FERNAN	9159	6	AM	7655		
7	14	3	50	0.3779	1	16	50	10.923	13	40	36.84	4	9010	JUPITER	10023	5	TA	7241		
7	14	3	50	32.3789	1	16	54	59.405	14	52	31.39	4	9010	JUPITER	10023	7	TA	7242		
7	14	16	24	31.3040	1	15	57	19.152	0	44	48.36	4	9002	OLIFANTS	13435	5	JW	220		
7	14	16	25	3.3042	1	16	0	39.233	1	41	17.40	4	9002	OLIFANTS	13435	7	JW	7785		
7	15	3	26	46.5660	1	16	35	54.637	9	25	47.27	4	9010	JUPITER	10051	3	TA	7243		
7	15	3	27	34.5671	1	16	42	40.446	11	7	52.70	4	9010	JUPITER	10051	6	TA	7244		
7	15	19	18	59.9907	1	16	42	42.029	19	17	48.15	4	9008	SHIRAZ	12980	2	KA	7874		
7	16	0	44	29.4770	1	17	9	56.960	29	57	51.68	4	9004	SAN FERNAN	9222	4	AM	7656		
7	16	0	45	17.4767	1	17	19	1.289	31	58	3.62	4	9004	SAN FERNAN	9222	9	AM	7657		
7	16	3	39	51.1376	1	19	16	5.131	54	23	40.13	4	9004	SAN FERNAN	9235	2	AM	7658		
7	16	3	40	7.1376	1	19	24	57.489	55	14	39.50	4	9004	SAN FERNAN	9235	4	AM	7659		
7	16	8	17	28.7984	1	15	53	57.265	9	18	21.47	4	9012	MAUI	10312	3	KA	7852		
7	16	8	18	0.7989	1	15	57	54.196	10	25	51.61	4	9012	MAUI	10312	7	KA	7853		
7	16	8	59	4.5340	1	20	2	30.082	73	50	27.74	4	9010	JUPITER	10078	7	AC	7245		
7	17	0	22	5.9684	1	16	58	27.967	27	32	58.36	4	9004	SAN FERNAN	9253	4	AM	7660		
7	17	0	22	37.9681	1	17	4	1.968	28	48	10.93	4	9004	SAN FERNAN	9253	6	AM	8238		
7	17	7	56	23.9047	1	15	58	5.740	9	48	35.15	4	9012	MAUI	10340	1	KA	7854		
7	17	7	56	35.9050	1	16	0	8.847	10	22	29.85	4	9012	MAUI	10340	3	KA	7855		
7	17	8	37	10.7978	1	19	20	16.121	71	41	12.82	4	9010	JUPITER	10101	4	KA	7247		
7	17	18	35	7.5871	1	16	35	26.656	16	32	41.34	4	9008	SHIRAZ	13027	3	EM	7996		
7	17	18	35	39.5887	1	16	40	16.362	17	41	50.22	4	9008	SHIRAZ	13027	5	EM	8239		
7	18	0	0	21.4605	1	16	54	13.352	26	44	29.10	4	9004	SAN FERNAN	9283	5	AM	7651		
7	18	0	0	37.4604	1	16	56	57.889	27	20	47.62	4	9004	SAN FERNAN	9283	6	AM	7662		
7	18	0	26	46.0444	1	20	29	11.539	65	36	46.15	4	9008	SHIRAZ	13044	4	EM	9206		
7	18	2	55	19.4083	1	18	15	58.053	49	30	22.51	4	9004	SAN FERNAN	9294	4	AM	7663		
7	18	2	55	27.4084	1	18	18	43.132	49	53	43.03	4	9004	SAN FERNAN	9294	6	AM	7664		
7	18	23	39	21.4349	1	16	58	5.376	27	35	44.82	4	9004	SAN FERNAN	9313	4	EM	7665		
7	18	23	39	53.4350	1	17	3	58.906	28	47	49.98	4	9004	SAN FERNAN	9313	6	EM	7666		
7	19	7	12	54.2649	1	15	56	57.059	7	58	20.61	4	9012	MAUI	10347	1	TA	7856		
7	19	7	13	26.2649	1	16	1	8.943	9	4	47.70	4	9012	MAUI	10347	5	TA	7857		
7	19	7	52	47.3304	1	18	8	27.659	65	44	43.19	4	9010	JUPITER	10142	5	AC	9192		
7	19	23	16	53.5255	1	16	46	55.323	25	12	42.43	4	9004	SAN FERNAN	9338	4	AM	9031		

DATE			TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS. NO.		
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S						
1963	7	19	23	17	9.5257	1	16	49	39.666	25	46	57.48	4	9004	SAN FERNAN	9338	5	AM	9032
	7	20	12	48	58.0191	1	18	7	41.007	74	28	23.53	4	9012	MAUI	10375	2	TA	7858
	7	20	22	55	42.7777	1	16	49	25.949	25	36	45.24	4	9004	SAN FERNAN	9366	6	AM	70
	7	20	22	56	14.7782	1	16	55	10.556	26	44	12.89	4	9004	SAN FERNAN	9366	8	AM	9034
	7	21	4	10	2.5266	1	16	2	3.852	32	53	55.34	4	9010	JUPITER	10181	5	KA	8731
	7	21	4	11	6.5281	1	16	11	37.925	35	22	14.53	4	9010	JUPITER	10181	9	KA	9191
	7	21	6	30	14.8101	1	16	2	39.245	7	47	46.52	4	9012	MAUI	10395	2	KA	7684
	7	21	6	30	54.8100	1	16	8	2.521	9	9	30.74	4	9012	MAUI	10395	7	KA	7685
	7	21	20	2	11.8801	1	16	18	48.978	39	58	46.43	4	9008	SHIRAZ	13110	2	EM	8732
	7	22	1	28	35.3465	1	17	36	55.654	47	45	21.00	4	9004	SAN FERNAN	9391	4	KA	9035
7	22	1	28	51.3465	1	17	41	36.181	48	25	40.46	4	9004	SAN FERNAN	9391	5	KA	9036	
7	22	22	48	9.0004	1	21	12	57.247	52	7	34.33	4	9006	NAINI TAL	8342	2	JW	8063	
7	22	22	48	17.0007	1	21	19	12.003	52	6	12.70	4	9006	NAINI TAL	8342	3	JW	8064	
7	23	0	29	37.4627	1	15	14	2.457	11	29	53.09	4	9009	CURACAO	8484	2	KA	8958	
7	23	0	29	53.4629	1	15	16	5.526	12	3	46.93	4	9009	CURACAO	8484	3	KA	8959	
7	23	3	59	40.6886	1	20	9	43.099	44	21	10.15	4	9004	SAN FERNAN	9423	3	TA	9037	
7	23	4	0	4.6890	1	20	23	0.720	44	28	35.21	4	9004	SAN FERNAN	9423	6	TA	9038	
7	23	6	9	54.2783	1	16	8	11.546	33	57	18.30	4	9001	ORGAN PASS	11158	3	JW	8940	
7	23	6	10	18.2784	1	16	11	55.447	34	50	1.60	4	9001	ORGAN PASS	11158	6	JW	8941	
7	23	8	40	58.1515	1	15	28	19.285	35	21	44.25	4	9012	MAUI	10430	1	KA	7683	
7	23	9	8	21.7928	1	18	30	38.708	58	28	27.40	4	9001	ORGAN PASS	11165	3	JW	219	
7	23	9	8	29.7928	1	18	34	24.848	58	48	48.50	4	9001	ORGAN PASS	11165	5	JW	8943	
7	23	14	37	42.1752	1	23	6	32.183	63	50	1.65	4	9012	MAUI	10439	3	TA	7859	
7	23	14	37	54.1750	1	23	21	20.916	63	24	13.05	4	9012	MAUI	10439	6	TA	7860	
7	23	22	27	7.6714	1	21	15	27.177	54	31	39.64	4	9006	NAINI TAL	8367	1	JW	225	
7	23	22	27	47.6728	1	21	49	24.717	54	10	10.22	4	9006	NAINI TAL	8367	6	JW	226	
7	24	3	38	48.7091	1	20	14	25.359	46	27	40.79	4	9004	SAN FERNAN	9443	4	TA	9039	
7	24	3	38	56.7089	1	20	19	2.144	46	30	22.22	4	9004	SAN FERNAN	9443	5	TA	9040	
7	24	8	18	53.2978	1	15	24	12.318	34	18	35.45	4	9012	MAUI	10450	2	EM	7861	
7	24	8	19	25.2979	1	15	28	29.274	35	28	4.57	4	9012	MAUI	10450	7	EM	7862	
7	24	9	5	55.1921	1	1	56	8.399	61	34	11.03	4	9009	CURACAO	8516	2	TA	8960	
7	24	14	16	36.8626	1	23	13	36.629	65	25	31.11	4	9012	MAUI	10463	3	EM	7863	
7	24	14	16	44.8626	1	23	23	26.540	65	7	2.25	4	9012	MAUI	10463	5	EM	7864	
7	24	16	11	30.5027	1	15	49	33.163	25	48	15.62	4	9006	NAINI TAL	8375	3	JW	8067	
7	24	16	12	2.5039	1	15	54	16.621	26	54	31.28	4	9006	NAINI TAL	8375	5	JW	8068	
7	24	18	56	20.8875	1	16	4	24.406	37	15	9.28	4	9008	SHIRAZ	13167	7	TA	7999	
7	25	0	22	12.9571	1	16	57	49.313	43	48	43.36	4	9004	SAN FERNAN	9456	5	TA	9041	
7	25	0	22	28.9574	1	17	1	33.220	44	24	16.86	4	9004	SAN FERNAN	9456	6	TA	9042	
7	25	8	36	35.1118	1	20	58	2.222	61	4	6.27	4	9010	JUPITER	10215	4	KA	8728	
7	25	8	36	51.1121	1	21	12	0.713	61	10	28.47	4	9010	JUPITER	10215	6	KA	8729	
7	25	8	44	7.1776	1	1	14	0.652	66	33	43.65	4	9009	CURACAO	8529	3	TA	8961	
7	25	8	44	23.1780	1	1	32	0.366	65	11	42.01	4	9009	CURACAO	8529	7	TA	8962	
7	25	13	54	35.4276	1	22	14	30.549	67	54	43.96	4	9012	MAUI	10482	2	AM	7875	
7	25	13	54	51.4277	1	22	33	34.732	67	42	3.51	4	9012	MAUI	10482	6	AM	7876	
7	25	23	59	40.7945	1	16	41	45.626	41	46	41.19	4	9004	SAN FERNAN	9482	4	KA	9045	

DATE			TIME (A-L)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			RMS S	STATION	FRAME NO.	MS	OBS. NO.		
Y	M	D	H	M	S		H	M	S	D	M	S							
1963	7	25	23	59	56.7949	1	16	45	8.841		42	20	48.83	4	9004	SAN FERNAN	9482	5 KA	9046
	7	26	0	25	57.1716	1	21	27	57.129		42	59	55.30	4	9008	SHIRAZ	13209	3 TA	8000
	7	26	0	26	5.1716	1	21	33	19.210		42	44	32.79	4	9008	SHIRAZ	13209	5 TA	8001
	7	26	8	22	48.1355	1	1	5	36.434		68	6	33.53	4	9009	CURACAO	8545	2 TA	8963
	7	26	8	23	0.1354	1	1	18	44.225		67	11	10.61	4	9009	CURACAO	8545	5 TA	8964
	7	26	10	55	21.1006	1	20	48	0.373		39	22	25.96	4	9001	ORGAN PASS	11208	4 JW	8944
	7	26	10	55	33.1006	1	20	54	34.883		39	5	55.34	4	9001	ORGAN PASS	11208	7 JW	8945
	7	26	13	32	54.8334	1	21	44	11.005		69	13	16.85	4	9012	MAUI	10492	2 JW	9201
	7	26	13	33	10.8336	1	22	2	30.093		69	10	8.02	4	9012	MAUI	10492	6 JW	8949
	7	27	1	57	19.2053	1	15	33	28.886		24	41	31.45	4	9010	JUPITER	10229	5 EM	7988
	7	27	1	58	23.2065	1	15	42	59.408		26	51	14.79	4	9010	JUPITER	10229	9 EM	7989
	7	27	2	33	40.3818	1	19	14	51.622		50	2	26.38	4	9004	SAN FERNAN	9518	6 KA	9043
	7	27	2	33	48.3819	1	19	18	42.374		50	11	19.42	4	9004	SAN FERNAN	9518	7 KA	9044
	7	27	7	11	49.0184	1	15	6	28.308		29	18	3.25	4	9012	MAUI	10498	2 AM	7877
	7	27	7	12	21.0182	1	15	10	48.359		30	24	18.14	4	9012	MAUI	10498	4 AM	7878
	7	27	8	1	18.9456	1	0	47	5.607		69	54	7.37	4	9009	CURACAO	8553	4 EM	8965
	7	27	8	1	26.9457	1	0	55	52.740		69	22	39.15	4	9009	CURACAO	8553	6 EM	8966
	7	28	1	35	23.1282	1	15	30	54.537		23	38	18.57	4	9010	JUPITER	10245	3 EM	7986
	7	28	1	36	11.1288	1	15	38	3.028		25	14	16.50	4	9010	JUPITER	10245	6 EM	7987
	7	28	7	32	3.3498	1	20	15	21.118		64	25	28.71	4	9010	JUPITER	10260	5 EM	7984
	7	28	7	32	19.3500	1	20	28	10.000		64	38	4.64	4	9010	JUPITER	10260	7 EM	7985
	7	28	12	49	51.8418	1	21	12	40.623		70	56	15.69	4	9012	MAUI	10508	5 AM	7879
	7	28	12	49	55.8417	1	21	16	56.844		70	57	10.53	4	9012	MAUI	10508	6 AM	7880
	7	28	23	20	51.9860	1	20	19	18.073		51	50	37.52	4	9008	SHIRAZ	13255	4 TA	8002
	7	29	1	23	58.1861	1	17	27	27.182		41	38	42.25	4	9010	JUPITER	10261	2 TA	7982
	7	29	1	24	46.1873	1	17	39	15.422		42	47	44.44	4	9010	JUPITER	10261	5 TA	8237
	7	29	7	10	6.2204	1	19	45	41.010		64	43	20.32	4	9010	JUPITER	10268	3 EM	7980
	7	29	7	10	22.2206	1	19	57	21.159		65	0	42.14	4	9010	JUPITER	10268	5 EM	7981
	7	29	17	44	59.0100	1	20	14	46.729		36	54	47.52	4	9005	TOKYO	8713	2 KA	7681
	7	29	17	45	15.0105	1	20	22	4.554		36	35	35.70	4	9005	TOKYO	8713	3 KA	7682
	7	29	22	31	34.8158	1	16	10	3.380		38	26	21.87	4	9004	SAN FERNAN	9570	5 KA	7667
	7	29	22	32	6.8160	1	16	17	9.352		39	27	21.65	4	9004	SAN FERNAN	9570	7 KA	8241
	7	29	22	59	52.4176	1	20	25	22.211		53	46	31.72	4	9008	SHIRAZ	13259	4 TA	8004
	7	29	23	0	8.4180	1	20	35	27.956		53	43	43.17	4	9008	SHIRAZ	13259	6 TA	8005
	7	30	1	28	8.1020	1	18	22	15.869		51	22	13.17	4	9004	SAN FERNAN	9577	3 AC	7669
	7	30	1	28	24.1023	1	18	28	41.557		51	44	15.86	4	9004	SAN FERNAN	9577	4 AC	7670
	7	30	4	18	33.8967	1	20	25	50.950		22	30	18.41	4	9004	SAN FERNAN	9587	3 AC	7671
	7	30	4	18	49.8967	1	20	31	36.456		21	50	26.31	4	9004	SAN FERNAN	9587	5 AC	7672
	7	30	9	38	49.1623	1	21	17	3.259		21	50	59.33	4	9010	JUPITER	10300	5 AM	7648
	7	30	9	38	57.1626	1	21	20	30.686		21	17	39.51	4	9010	JUPITER	10300	6 AM	7649
	7	30	12	6	25.5203	1	20	28	30.157		71	47	23.95	4	9012	MAUI	10551	3 AM	7881
	7	30	12	6	33.5202	1	20	36	13.862		71	51	57.09	4	9012	MAUI	10551	5 AM	7882
	7	30	14	56	56.6274	1	21	46	34.813		22	12	46.47	4	9012	MAUI	10559	6 AM	7883
	7	30	22	9	31.3117	1	16	4	0.005		37	33	54.81	4	9004	SAN FERNAN	9597	4 AC	7673
	7	30	22	10	19.3117	1	16	13	19.286		39	3	29.84	4	9004	SAN FERNAN	9597	7 AC	7674

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 30	22 38 18.1968	1	20 11 54.845	55 28 4.10	4	9008 SHIRAZ	13281	3 TA 8006
	7 30	22 38 26.1972	1	20 16 49.278	55 28 41.03	4	9008 SHIRAZ	13281	4 TA 8007
	7 31	1 5 32.7707	1	17 52 32.734	50 33 15.58	4	9004 SAN FERNAN	9607	5 AC 7675
	7 31	1 6 5.7709	1	18 3 54.079	51 20 38.25	4	9004 SAN FERNAN	9607	7 AC 7676
	7 31	3 58 19.2371	1	20 39 23.203	22 56 31.00	4	9004 SAN FERNAN	9615	3 AC 7677
	7 31	3 58 35.2374	1	20 45 38.796	22 11 17.91	4	9004 SAN FERNAN	9615	5 AC 7678
	7 31	9 7 7.8942	1	19 20 24.658	50 44 54.14	4	9001 ORGAN PASS	11213	3 JW 8946
	7 31	9 7 23.8942	1	19 27 58.406	50 52 38.51	4	9001 ORGAN PASS	11213	7 JW 8947
	7 31	9 18 3.4299	1	21 22 9.386	24 14 38.60	4	9010 JUPITER	10325	3 AM 7650
	7 31	9 18 11.4302	1	21 25 50.508	23 41 33.21	4	9010 JUPITER	10325	4 AM 7651
	7 31	14 25 58.0963	1	21 47 57.605	26 8 44.46	4	9012 MAUI	10583	5 AM 7884
	7 31	21 47 7.2319	1	15 53 42.219	36 3 37.70	4	9004 SAN FERNAN	9623	4 AC 224
	7 31	21 47 55.2318	1	16 2 39.741	37 31 24.66	4	9004 SAN FERNAN	9623	7 AC 7680
	8 1	5 48 6.6353	1	16 1 48.257	47 38 35.58	4	9001 ORGAN PASS	11223	2 EM 1200
	8 1	5 48 22.6353	1	16 5 6.650	48 9 29.51	4	9001 ORGAN PASS	11223	4 EM 1201
	8 1	8 56 36.7130	1	21 10 6.609	29 6 20.81	4	9010 JUPITER	10340	3 FI 9814
	8 1	8 56 52.7131	1	21 17 34.592	28 10 20.54	4	9010 JUPITER	10340	5 FI 9815
	8 1	14 14 17.6065	1	21 29 31.896	32 42 20.50	4	9012 MAUI	10607	7 EM 1393
	8 1	14 14 25.6066	1	21 33 33.484	32 12 52.05	4	9012 MAUI	10607	9 KA 3977
	8 1	21 24 50.4651	1	15 45 11.295	34 47 0.65	4	9004 SAN FERNAN	9643	3 SE 1577
	8 2	2 41 45.7572	1	15 22 10.436	45 41 31.98	4	9010 JUPITER	10351	3 FI 9816
	8 2	2 42 1.7578	1	15 25 1.802	46 12 48.07	4	9010 JUPITER	10351	4 FI 9817
	8 2	3 14 47.6382	1	20 1 13.045	30 39 22.21	4	9004 SAN FERNAN	9662	4 SE 1259
	8 2	3 15 3.6386	1	20 7 12.054	30 12 36.19	4	9004 SAN FERNAN	9662	5 SE 1270
	8 2	3 37 45.1481	1	1 53 44.381	45 26 32.86	4	9002 OLIFANTS	13744	4 FI 391
	8 2	3 37 53.1487	1	1 59 47.065	44 54 55.17	4	9002 OLIFANTS	13744	5 FI 392
	8 2	8 23 36.3439	1	18 49 29.261	53 6 22.76	4	9001 ORGAN PASS	11238	2 EM 1202
	8 2	8 23 52.3437	1	18 56 33.766	53 18 39.92	4	9001 ORGAN PASS	11238	4 EM 1203
	8 2	8 35 27.0502	1	21 7 7.668	32 35 4.31	4	9010 JUPITER	10367	3 FI 9818
	8 2	13 53 20.2988	1	21 34 18.687	35 54 51.84	4	9012 MAUI	10617	6 KA 1394
	8 2	12 53 28.2989	1	21 38 34.228	35 26 54.04	4	9012 MAUI	10617	8 KA 1395
	8 3	2 53 15.9682	1	19 48 58.315	33 25 8.78	4	9004 SAN FERNAN	9688	4 KA 306
	8 3	2 53 31.9682	1	19 54 56.272	33 3 34.90	4	9004 SAN FERNAN	9688	6 KA 307
	8 3	3 16 58.8252	1	2 3 39.184	46 23 32.73	4	9002 OLIFANTS	13758	6 FI 393
	8 3	3 17 6.8249	1	2 9 37.098	45 50 27.17	4	9002 OLIFANTS	13758	7 FI 394
	8 3	8 13 32.0235	1	20 43 58.134	37 37 7.65	4	9010 JUPITER	10391	3 FI 9819
	8 3	8 13 48.0241	1	20 51 26.110	37 1 16.37	4	9010 JUPITER	10391	5 FI 9820
	8 3	12 31 32.8806	1	21 14 15.601	41 12 28.28	4	9012 MAUI	10643	4 AM 1396
	8 3	12 31 44.8807	1	21 20 32.592	40 41 59.58	4	9012 MAUI	10643	7 AM 1397
	8 3	20 49 36.2244	1	17 36 47.916	46 27 48.64	4	9004 SAN FERNAN	9694	3 KA 308
	8 3	20 50 24.2243	1	17 51 18.834	47 17 5.17	4	9004 SAN FERNAN	9694	6 KA 309
	8 4	0 2 35.4429	1	20 55 1.821	17 2 43.77	4	9008 SHIRAZ	13341	5 TA 2437
	8 4	7 40 9.0036	1	18 26 2.465	54 55 31.46	4	9001 ORGAN PASS	11254	4 KA 1204
	8 4	7 40 17.0038	1	18 29 24.387	55 2 35.98	4	9001 ORGAN PASS	11254	5 KA 1205
	8 4	7 51 35.5222	1	20 21 32.232	41 41 11.29	4	9010 JUPITER	10423	4 FI 9821

DATE		TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS. NO.			
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S						
1963	8	4	7	51	51.5226	1	20	28	47.252	41	16	39.48	4	9010	JUPITER	10423	6	FI	69
	8	4	8	0	4.9489	1	22	28	55.649	40	12	59.05	4	9009	CURACAO	8670	11	FI	2945
	8	5	10	10	42.2198	1	20	26	0.535	20	35	47.54	4	9001	ORGAN PASS	11261	4	TA	1206
	8	6	6	28	43.8026	1	14	39	11.080	47	32	51.84	4	9012	MAUI	10653	4	AM	1398
	8	6	6	29	31.8028	1	14	47	35.232	49	1	16.22	4	9012	MAUI	10653	10	AM	1399
	8	6	12	27	6.1418	1	20	50	16.460	50	42	16.63	4	9012	MAUI	10666	3	AM	1400
8	6	12	27	26.1419	1	21	1	0.138	50	12	5.54	4	9012	MAUI	10666	8	AM	1401	
8	6	22	57	17.1327	1	20	4	57.403	31	8	1.08	4	9008	SHIRAZ	13388	3	KA	1820	
8	7	6	11	5.0807	1	15	29	35.917	54	40	11.30	4	9012	MAUI	10672	2	AM	1402	
8	7	6	11	37.0812	1	15	37	21.183	55	31	10.03	4	9012	MAUI	10672	6	AC	1403	
8	7	9	55	41.9586	1	3	54	46.229	5	58	36.16	4	9011	VILLA DOLO	10185	4	FI	403	
8	7	9	55	49.9587	1	4	4	28.230	4	22	22.07	4	9011	VILLA DOLO	10185	8	FI	404	
8	7	12	5	29.2806	1	20	40	33.145	53	9	45.93	4	9012	MAUI	10686	5	AC	1404	
8	7	12	5	41.2806	1	20	46	56.673	52	55	9.08	4	9012	MAUI	10686	8	AC	1405	
8	7	22	8	39.8898	1	16	8	45.399	48	18	6.11	4	9004	SAN FERNAN	9786	7	KA	310	
8	8	3	15	1.7631	1	15	33	3.573	46	2	53.20	4	9001	ORGAN PASS	11279	3	KA	1207	
8	8	9	34	7.6826	1	3	6	24.432	17	38	57.03	4	9011	VILLA DOLO	10198	2	FI	5002	
8	8	9	34	15.6823	1	3	14	47.410	16	21	56.18	4	9011	VILLA DOLO	10198	4	FI	406	
8	8	21	47	1.8924	1	16	6	34.216	48	38	24.82	4	9004	SAN FERNAN	9810	7	KA	311	
8	9	3	5	21.5567	1	19	17	25.408	55	38	47.02	4	9001	ORGAN PASS	11305	2	KA	1208	
8	9	3	5	37.5585	1	19	23	13.609	55	32	58.22	4	9001	ORGAN PASS	11305	4	KA	1209	
8	9	5	49	49.4191	1	17	10	21.518	56	18	10.29	4	9001	ORGAN PASS	11313	4	AC	1164	
8	9	21	24	29.4634	1	15	51	38.294	47	38	50.96	4	9004	SAN FERNAN	9831	6	KA	312	
8	9	21	25	1.4636	1	15	59	21.601	48	24	20.24	4	9004	SAN FERNAN	9831	8	KA	313	
8	10	3	6	26.5486	1	0	16	2.049	33	25	15.72	4	9010	JUPITER	10529	5	AM	1432	
8	10	3	6	42.5489	1	0	18	43.685	32	38	18.36	4	9010	JUPITER	10529	6	AM	1433	
8	10	8	50	0.5412	1	3	4	58.191	- 8	27	57.89	4	9007	AREQUIPA	9720	2	AC	1406	
8	11	18	28	42.5577	1	22	56	3.364	45	19	49.85	4	9008	SHIRAZ	13439	2	KA	1821	
8	11	18	29	14.5585	1	23	4	31.811	43	45	1.04	4	9008	SHIRAZ	13439	6	KA	1822	
8	11	18	32	34.5617	1	23	50	9.369	33	21	0.66	4	9008	SHIRAZ	13440	4	EM	1823	
8	11	18	32	58.5618	1	23	54	56.365	32	4	15.80	4	9008	SHIRAZ	13440	7	EM	1824	
8	12	2	54	31.1303	1	23	28	51.278	16	38	38.37	4	9002	OLIFANTS	13915	5	FI	395	
8	12	2	54	44.2184	1	23	35	12.890	15	14	32.04	4	9002	OLIFANTS	13915	8	FI	396	
8	12	5	3	22.5379	1	21	27	19.830	50	48	2.94	4	9010	JUPITER	10566	4	AM	1434	
8	12	5	3	30.5380	1	21	30	57.876	50	28	18.22	4	9010	JUPITER	10566	5	AM	2944	
8	12	12	39	34.9714	1	17	13	16.229	53	40	54.29	4	9005	TOKYO	8783	14	TA	1177	
8	12	12	40	6.9719	1	17	24	10.107	54	2	59.33	4	9005	TOKYO	8783	16	JW	1178	
8	12	18	45	45.6385	1	6	1	56.676	- 7	38	25.58	4	9003	MOONERA	15344	9	MJ	1252	
8	12	20	49	54.5418	1	20	1	48.714	43	44	24.00	4	9008	SHIRAZ	13463	3	EM	1825	
8	12	20	50	26.5424	1	20	14	32.444	42	49	49.64	4	9008	SHIRAZ	13463	7	EM	1826	
8	12	20	53	54.5496	1	21	38	44.944	33	33	51.16	4	9008	SHIRAZ	13464	4	EM	1827	
8	12	20	54	10.5504	1	21	45	9.043	32	35	42.12	4	9008	SHIRAZ	13464	6	EM	1828	
8	13	2	34	53.6851	1	0	20	36.716	11	4	13.52	4	9002	OLIFANTS	13943	9	FI	530	
8	13	2	35	1.6850	1	0	26	34.839	9	49	55.41	4	9002	OLIFANTS	13943	11	FI	1576	
8	13	4	20	49.8269	1	16	15	56.972	55	44	40.72	4	9001	ORGAN PASS	11343	5	AC	3970	

DATE		TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION		FRAME NO.	MS	OBS.-NO.		
Y	M	D	H	M	S	MS	H	M	S	D	M	S	RMS					
1963	8	13	4	21	5.8271	1	16	20	46.531	56	2	54.81	4	9001	ORGAN PASS	11343	7 AC	1166
	8	13	4	40	42.5416	1	20	53	14.796	54	4	47.30	4	9010	JUPITER	10585	10 AM	1435
	8	13	4	40	50.5418	1	20	56	53.557	53	49	44.62	4	9010	JUPITER	10585	11 AM	1436
	8	13	4	43	54.5472	1	20	22	7.025	64	34	48.67	4	9009	CJACAD	8743	7 FI	894
	8	13	4	44	2.5470	1	22	18	7.390	45	28	14.55	4	9010	JUPITER	10586	6 EM	1437
	8	13	4	44	26.5475	1	22	27	15.153	44	7	50.63	4	9010	JUPITER	10586	9 EM	1438
	8	13	17	49	46.6082	1	23	27	34.947	34	5	0.49	4	9008	SHIRAZ	13473	9 AC	1829
	8	13	20	30	50.5652	1	20	57	5.084	40	31	36.54	4	9008	SHIRAZ	13477	8 AC	2438
	8	13	20	30	58.5653	1	21	0	16.743	40	10	36.44	4	9008	SHIRAZ	13477	9 AC	1830
	8	13	20	34	10.5720	1	22	14	30.678	29	17	42.01	4	9008	SHIRAZ	13478	7 AC	1831
	8	13	20	34	50.5739	1	22	29	6.093	26	28	42.91	4	9008	SHIRAZ	13478	12 AC	1832
	8	13	22	51	55.0854	1	17	5	55.504	49	47	3.09	4	9004	SAN FERNAN	9845	6 KA	314
8	13	22	52	27.0862	1	17	15	35.132	50	4	39.26	4	9004	SAN FERNAN	9845	8 KA	315	
8	14	2	15	57.1489	1	2	23	16.818	- 6	53	21.66	4	9002	OLIFANTS	13962	4 FI	531	
8	14	2	16	5.1487	1	2	33	8.348	- 8	42	7.46	4	9002	OLIFANTS	13962	8 FI	532	
8	14	4	19	38.5380	1	21	3	29.195	53	47	7.82	4	9010	JUPITER	10607	6 EM	1439	
8	14	4	19	54.5382	1	21	10	20.878	53	13	43.70	4	9010	JUPITER	10607	8 EM	1440	
8	14	4	23	6.5437	1	22	25	10.896	44	26	55.80	4	9010	JUPITER	10608	6 EM	1441	
8	14	4	23	22.5439	1	22	30	44.877	43	33	35.88	4	9010	JUPITER	10608	8 EM	1442	
8	14	17	14	2.5477	1	19	0	17.777	61	53	21.84	4	9008	SHIRAZ	13488	6 BM	1833	
8	14	17	20	58.5575	1	21	35	46.725	52	22	57.80	4	9008	SHIRAZ	13489	5 JW	1834	
8	14	20	13	46.5589	1	22	31	55.254	27	12	17.54	4	9008	SHIRAZ	13494	4 BM	1293	
8	14	22	29	27.1462	1	16	47	18.870	50	5	51.40	4	9004	SAN FERNAN	9858	5 KA	316	
8	14	22	30	15.1466	1	17	1	24.422	50	35	57.51	4	9004	SAN FERNAN	9858	8 KA	317	
8	14	22	48	50.5571	1	23	7	8.185	20	31	12.29	4	9004	SAN FERNAN	9860	4 KA	318	
8	14	22	49	14.5572	1	23	12	35.425	19	10	7.33	4	9004	SAN FERNAN	9860	7 KA	319	
8	14	22	52	10.5371	1	19	14	52.243	16	19	37.21	4	9008	SHIRAZ	13501	S 2 FI	1523	
8	14	22	52	10.5581	1	23	49	38.404	9	22	4.08	4	9004	SAN FERNAN	9861	S 1 SU	669	
8	14	22	52	18.5372	1	19	16	26.551	16	1	44.31	4	9008	SHIRAZ	13501	S 3 SU	8527	
8	14	22	52	18.5583	1	23	51	13.050	8	56	0.43	4	9004	SAN FERNAN	9861	S 2 SU	670	
8	14	22	52	26.5372	1	19	18	1.608	15	43	37.27	4	9008	SHIRAZ	13501	S 4 FI	1524	
8	14	22	52	26.5579	1	23	52	47.151	8	29	56.77	4	9004	SAN FERNAN	9861	S 5 SE	1272	
8	14	22	52	34.5374	1	19	19	36.803	15	25	6.32	4	9008	SHIRAZ	13501	S 5 SU	8528	
8	14	22	52	34.5581	1	23	54	20.922	8	4	1.71	4	9004	SAN FERNAN	9861	S 4 SU	671	
8	14	22	52	42.5581	1	23	55	53.742	7	38	15.28	4	9004	SAN FERNAN	9861	S 5 SU	672	
8	15	1	56	30.4539	1	4	6	58.712	-17	49	31.75	4	9002	OLIFANTS	13984	3 FI	398	
8	15	1	56	38.4536	1	4	16	16.420	-19	4	14.23	4	9002	OLIFANTS	13984	7 FI	399	
8	15	3	57	30.5517	1	18	44	30.591	66	58	52.66	4	9009	CURACAO	8764	14 FI	3982	
8	15	6	29	38.5403	1	22	29	46.776	51	37	10.30	4	9012	MAUI	10778	4 BM	1579	
8	15	6	30	10.5404	1	22	35	56.999	50	30	19.56	4	9012	MAUI	10778	8 BM	1280	
8	15	9	18	26.5429	1	22	36	48.734	50	28	15.70	4	9012	MAUI	10783	4 BM	1281	
8	15	9	18	42.5430	1	22	42	18.788	49	37	40.95	4	9012	MAUI	10783	8 BM	1282	
8	15	14	24	15.2487	1	22	30	17.498	39	6	50.14	4	9006	NAINI TAL	8423	4 FI	9805	
8	15	14	24	47.2495	1	22	35	32.264	38	1	42.61	4	9006	NAINI TAL	8423	6 FI	68	
8	15	19	38	9.3078	1	17	21	42.915	51	22	23.51	4	9008	SHIRAZ	13515	7 JW	1521	

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS.VO.
1963	8 15	19 38 25.3084	1 17 26 29.228	51 27 26.67	9008 SHIRAZ	13515	8 JW	1522
	8 15	19 51 2.5524	22 1 17.285	34 0 56.76	9008 SHIRAZ	13516	4 FI	1519
	8 15	19 51 10.5524	22 4 0.023	33 32 18.49	9008 SHIRAZ	13516	6 FI	1520
	8 16	1 36 46.6337	5 5 18.544	-21 1 3.00	9002 OLIFANTS	13997	5 FI	400
	8 16	5 57 16.4553	19 8 12.124	66 58 47.69	9012 MAUI	10795	2 BM	1283
	8 16	5 57 48.4554	19 21 28.687	66 35 37.61	9012 MAUI	10795	6 BM	1284
	8 16	8 58 10.6298	18 33 0.031	21 42 9.59	9001 ORGAN PASS	11367	5 KA	1167
	8 16	8 58 14.5452	22 55 48.815	46 34 33.71	9012 MAUI	10801	4 BM	1285
	8 16	8 58 26.5452	22 59 18.562	45 54 49.83	9012 MAUI	10801	7 BM	1286
	8 16	8 58 42.6299	18 38 57.092	20 53 29.91	9001 ORGAN PASS	11367	9 KA	1168
	8 16	16 35 38.5563	20 43 0.353	55 9 26.83	9008 SHIRAZ	13525	2 JV	1515
	8 16	16 35 46.5562	20 45 26.009	54 56 25.30	9008 SHIRAZ	13525	3 JV	1516
	8 16	16 40 58.5587	22 4 18.324	44 46 35.72	9008 SHIRAZ	13526	7 JV	1514
	8 16	19 28 42.5528	21 40 5.150	38 14 56.64	9008 SHIRAZ	13532	3 JV	1511
	8 16	19 28 58.5533	21 45 26.791	37 24 20.24	9008 SHIRAZ	13532	5 JV	1512
	8 16	21 45 57.6716	16 37 12.953	51 27 51.04	9004 SAN FERNAN	9895	4 SE	1578
	8 16	21 46 45.6712	16 51 36.817	51 56 15.93	9004 SAN FERNAN	9895	7 SE	1273
	8 16	22 6 10.5600	22 51 32.505	22 26 24.48	9004 SAN FERNAN	9896	4 RD	1274
	8 16	22 6 50.5402	18 29 5.938	25 0 37.77	9008 SHIRAZ	13535	4 JV	1509
	8 16	22 7 6.5408	18 32 10.144	24 38 2.92	9008 SHIRAZ	13535	6 JV	1510
	8 16	22 9 54.5594	23 34 9.826	11 15 35.25	9004 SAN FERNAN	9897	7 RD	1275
	8 16	22 10 34.5431	19 14 13.293	18 17 31.19	9008 SHIRAZ	13536	5 JV	1507
	8 16	22 10 42.5434	19 15 55.466	17 59 9.17	9008 SHIRAZ	13536	6 JV	1508
	8 17	3 16 18.5318	21 24 50.385	51 43 1.83	9010 JUPITER	10635	8 EM	1443
	8 17	3 19 54.5568	21 30 41.762	63 15 26.89	9009 CURACAO	8792	7 FI	897
	8 17	3 20 26.5569	21 44 21.833	62 13 42.45	9009 CURACAO	8792	11 FI	898
	8 17	8 38 42.5456	23 19 15.515	40 20 39.47	9012 MAUI	10822	3 BM	1287
	8 17	8 38 58.5457	23 23 2.681	39 25 54.21	9012 MAUI	10822	5 BM	1288
	8 17	9 13 49.5429	4 32 5.599	-57 3 49.41	9011 VILLA DOLO	10303	9 KA	5302
	8 17	16 15 22.5573	20 58 51.106	52 12 1.09	9008 SHIRAZ	13546	3 AC	1413
	8 17	16 15 38.5575	21 2 59.473	51 43 51.85	9008 SHIRAZ	13546	5 BM	1414
	8 17	19 8 10.5601	21 54 39.059	36 19 43.43	9008 SHIRAZ	13550	2 BM	1415
	8 17	19 8 26.5604	21 59 31.749	35 27 30.96	9008 SHIRAZ	13550	4 BM	1416
	8 17	21 23 44.4549	16 24 47.184	51 44 44.16	9004 SAN FERNAN	9915	4 RD	1276
	8 17	21 24 0.4550	16 29 27.115	51 55 20.49	9004 SAN FERNAN	9915	5 RD	1277
	8 17	21 46 10.5705	22 58 55.145	19 19 15.69	9004 SAN FERNAN	9916	4 RD	1278
	8 17	21 46 26.5699	23 1 50.929	18 33 40.91	9004 SAN FERNAN	9916	5 RD	1279
	8 18	2 58 42.5581	21 38 56.574	62 28 12.06	9009 CURACAO	8803	5 KA	1532
	8 18	2 59 22.5583	21 54 23.916	61 5 32.66	9009 CURACAO	8803	10 KA	1533
	8 18	3 41 6.1396	10 59 15.851	-76 1 18.71	9002 OLIFANTS	14040	3 FI	402
	8 18	8 51 27.5555	1 19 33.939	-32 54 22.30	9011 VILLA DOLO	10316	9 KA	321
	8 18	8 51 31.5553	1 25 35.319	-34 1 10.37	9011 VILLA DOLO	10316	10 KA	322
	8 18	8 53 9.2522	4 48 38.855	-51 22 53.85	9011 VILLA DOLO	10317	3 KA	3976
	8 18	18 45 6.5574	21 21 44.172	41 50 6.51	9008 SHIRAZ	13568	2 BM	1417
	8 18	18 45 22.5577	21 26 44.248	41 6 10.76	9008 SHIRAZ	13568	4 BM	1418

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 18	16 50 50.5622	1	22 55 44.601	23 6 3.26	9008 SHIRAZ	13569	1 TA	1419
8 18	18 50 58.5624	1	22 57 37.691	22 37 4.77	9008 SHIRAZ	13569	2 TA	1420
8 18	21 23 46.5646	1	22 38 52.491	22 55 58.13	9004 SAN FERNAN	9938	3 SE	1257
8 18	21 24 2.5456	1	18 14 50.285	28 42 51.98	9008 SHIRAZ	13573	1 SU	681
8 18	21 24 2.5646	1	22 41 46.833	22 12 54.24	9004 SAN FERNAN	9938	4 SU	673
8 18	21 24 10.5454	1	18 16 26.576	28 33 10.39	9008 SHIRAZ	13573	3 TA	2439
8 18	21 24 18.5455	1	18 18 3.489	28 23 18.05	9008 SHIRAZ	13573	3 SU	682
8 18	21 24 18.5645	1	22 44 39.635	21 29 43.74	9004 SAN FERNAN	9938	5 SU	674
8 18	21 24 26.5459	1	18 19 40.604	28 13 8.84	9008 SHIRAZ	13573	5 TA	1422
8 18	21 24 34.5460	1	18 21 17.861	28 2 56.25	9008 SHIRAZ	13573	5 SU	683
8 18	21 24 34.5642	1	22 47 30.280	20 46 34.52	9004 SAN FERNAN	9938	6 SU	675
8 18	21 24 42.5462	1	18 22 55.800	27 52 30.39	9008 SHIRAZ	13573	6 SU	684
8 18	21 24 50.5643	1	22 50 19.213	20 3 24.56	9004 SAN FERNAN	9938	7 SU	676
8 18	21 25 6.5640	1	22 53 6.475	19 20 18.28	9004 SAN FERNAN	9938	8 SE	1258
8 19	2 37 54.5591	1	21 54 4.673	60 39 6.97	9009 CURACAO	8807	5 KA	1534
8 19	2 38 26.5593	1	22 4 56.431	59 27 51.24	9009 CURACAO	8807	9 KA	1535
8 19	3 15 43.3774	1	21 53 33.071	-39 24 35.42	9002 OLIFANTS	14060	1 AM	3971
8 19	5 1 8.3647	1	16 27 58.311	51 11 38.19	9001 ORGAN PASS	11384	3 KA	1169
8 19	5 1 40.3649	1	16 36 42.366	51 27 23.63	9001 ORGAN PASS	11384	7 KA	1170
8 19	5 20 34.6205	1	22 31 57.848	22 38 40.04	9001 ORGAN PASS	11386	6 KA	1171
8 19	5 20 58.6207	1	22 37 40.677	21 15 32.88	9001 ORGAN PASS	11386	512 SU	8510
8 19	5 21 2.6206	1	22 38 37.228	21 1 40.79	9001 ORGAN PASS	11386	513 SU	8511
8 19	5 21 6.6207	1	22 39 33.646	20 47 40.27	9001 ORGAN PASS	11386	514 SU	8512
8 19	5 21 10.6207	1	22 40 29.906	20 33 46.43	9001 ORGAN PASS	11386	515 SU	8513
8 19	5 21 14.5521	1	18 40 30.909	43 39 21.18	9009 CURACAO	8809	5 KA	1536
8 19	5 21 14.6206	1	22 41 26.108	20 19 47.84	9001 ORGAN PASS	11386	516 KA	1172
8 19	5 21 22.5520	1	18 42 26.464	43 32 48.16	9009 CURACAO	8809	6 SU	8518
8 19	5 21 30.5523	1	18 44 23.021	43 25 57.02	9009 CURACAO	8809	7 SU	8519
8 19	5 21 38.5525	1	18 46 19.653	43 18 58.16	9009 CURACAO	8809	8 SU	8520
8 19	5 21 46.5524	1	18 48 17.533	43 11 47.46	9009 CURACAO	8809	9 SU	8521
8 19	5 22 10.5526	1	18 54 14.056	42 49 4.69	9009 CURACAO	8809	12 KA	1537
8 19	7 55 38.5506	1	23 1 5.346	41 10 44.13	9012 MAUI	10845	1 BM	1289
8 19	7 55 54.5508	1	23 4 26.330	40 22 18.37	9012 MAUI	10845	3 BM	1581
8 19	21 3 14.5446	1	18 16 13.962	29 47 49.39	9008 SHIRAZ	13593	2 JW	1423
8 19	21 3 22.5446	1	18 17 54.217	29 37 53.34	9008 SHIRAZ	13593	3 JW	1424
8 20	4 40 30.2818	1	16 41 29.029	52 40 16.47	9001 ORGAN PASS	11396	7 TA	1173
8 20	4 41 2.2838	10	16 50 56.064	52 51 29.66	9001 ORGAN PASS	11396	9 TA	1174
8 20	7 33 6.5509	1	22 39 53.092	44 9 41.64	9012 MAUI	10864	1 BM	1291
8 20	7 33 22.5511	1	22 43 13.646	43 25 11.94	9012 MAUI	10864	3 BM	1292
8 20	7 38 58.5507	1	23 43 37.517	26 55 48.36	9012 MAUI	10865	7 MJ	1198
8 20	7 39 14.5507	1	23 46 9.570	26 7 30.77	9012 MAUI	10865	9 MJ	1199
8 20	8 12 35.4048	1	6 5 25.901	-40 31 23.44	9011 VILLA DOLO	10345	6 KA	323
8 20	20 27 23.0499	1	19 10 39.455	50 58 52.72	9004 SAN FERNAN	9973	3 SE	1265
8 20	20 28 27.0496	1	19 30 34.621	49 40 44.59	9004 SAN FERNAN	9973	7 SE	1256
8 20	20 42 58.5715	1	22 40 38.008	19 10 36.09	9004 SAN FERNAN	9974	5 JW	1179

DATE		TIME (A-1)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS. NO.			
Y	M	D	H	M	S	MS	H	M	S	D	M	S							
1963	8	20	20	43	30.5708	1	22	45	31.326	17	53	35.42	4	9004	SAN FERNAN	9974	7	AC	1180
	8	21	2	0	18.5648	1	23	8	59.758	45	58	15.36	4	9009	CURACAO	8830	9	KA	2442
	8	21	2	0	34.5648	1	23	12	11.720	45	12	39.24	4	9009	CURACAO	8830	11	KA	2443
	8	21	2	0	34.5810	1	18	29	57.438	13	25	10.85	4	9004	SAN FERNAN	9989	4	AC	1181
	8	21	7	10	58.5484	1	22	24	28.685	45	37	8.40	4	9012	MAUI	10884	5	EM	1196
8	21	7	11	6.5484	1	22	26	6.941	45	16	25.01	4	9012	MAUI	10884	6	EM	1197	
8	21	7	18	42.5460	1	23	43	13.389	24	12	58.52	4	9012	MAUI	10885	12	EM	1194	
8	21	7	19	14.5458	1	23	47	51.586	22	42	25.33	4	9012	MAUI	10885	16	EM	1195	
8	21	9	45	55.9625	1	17	19	39.355	48	28	59.08	4	9012	MAUI	10889	8	BZ	1193	
8	21	18	22	55.6105	1	6	0	1.697	-40	28	41.99	4	9003	WOOMERA	15466	3	MJ	1263	
8	21	18	23	7.6101	1	6	13	4.288	-40	13	59.93	4	9003	WOOMERA	15466	6	MJ	1254	
8	21	20	20	42.5646	1	22	23	19.116	21	45	44.01	4	9004	SAN FERNAN	9998	5	SU	677	
8	21	20	20	50.5644	1	22	24	31.502	21	27	26.57	4	9004	SAN FERNAN	9998	5	AM	1410	
8	21	20	20	58.5645	1	22	25	43.614	21	9	8.46	4	9004	SAN FERNAN	9998	5	SU	678	
8	21	20	21	6.5643	1	22	26	55.820	20	50	53.33	4	9004	SAN FERNAN	9998	5	AM	1411	
8	21	20	21	14.5510	1	18	17	29.347	32	21	57.53	4	9008	SHIRAZ	13630	5	SU	685	
8	21	20	21	14.5644	1	22	28	7.257	20	32	36.39	4	9004	SAN FERNAN	9998	5	SU	679	
8	21	20	21	22.5510	1	18	19	17.495	32	11	51.87	4	9008	SHIRAZ	13630	5	AC	1425	
8	21	20	21	22.5643	1	22	29	18.479	20	14	18.23	4	9004	SAN FERNAN	9998	5	SU	680	
8	21	20	21	30.5514	1	18	21	5.860	32	1	35.49	4	9008	SHIRAZ	13630	5	SU	686	
8	21	20	21	38.5514	1	18	22	54.236	31	51	4.27	4	9008	SHIRAZ	13630	5	AC	1426	
8	21	20	21	46.5515	1	18	24	43.386	31	40	21.00	4	9008	SHIRAZ	13630	5	SU	687	
8	21	20	21	54.5517	1	18	26	32.768	31	29	26.52	4	9008	SHIRAZ	13630	5	SU	688	
8	21	20	27	22.5577	1	19	45	49.121	20	23	19.22	4	9008	SHIRAZ	13631	3	AC	1427	
8	21	20	27	38.5581	1	19	49	53.328	19	38	23.86	4	9008	SHIRAZ	13631	5	AC	1428	
8	22	1	42	42.5670	1	23	40	49.109	34	46	22.83	4	9009	CURACAO	8841	5	KA	1540	
8	22	1	42	58.5672	1	23	43	20.935	33	59	39.44	4	9009	CURACAO	8841	7	KA	1541	
8	22	2	16	33.9275	1	4	55	47.627	-80	5	44.63	4	9002	OLIFANTS	14115	3	AM	1408	
8	22	2	16	37.9272	1	5	17	26.165	-79	48	7.81	4	9002	OLIFANTS	14115	4	AM	1409	
8	22	6	52	26.5522	1	22	48	36.807	37	42	5.63	4	9012	MAUI	10900	6	BZ	1191	
8	22	6	52	42.5524	1	22	51	13.281	37	0	20.94	4	9012	MAUI	10900	8	BZ	1192	
8	22	6	57	6.5542	1	23	30	39.020	25	18	2.87	4	9012	MAUI	10901	7	BZ	1189	
8	22	6	57	22.5544	1	23	32	52.264	24	35	20.30	4	9012	MAUI	10901	9	BZ	1190	
8	22	9	23	32.4975	1	17	2	54.979	50	5	38.43	4	9012	MAUI	10905	4	KA	1294	
8	22	14	29	17.1685	1	18	48	33.677	58	59	53.87	4	9006	NAINI TAL	8427	6	FI	9807	
8	22	14	30	5.2194	1	19	5	25.268	58	11	42.75	4	9006	NAINI TAL	8427	9	FI	209	
8	22	14	44	18.5903	1	22	26	52.052	29	59	7.93	4	9006	NAINI TAL	8428	6	FI	9809	
8	22	14	45	6.5909	1	22	34	16.839	28	1	48.31	4	9006	NAINI TAL	8428	9	FI	9810	
8	22	14	48	50.6114	1	23	6	19.041	18	54	21.56	4	9006	NAINI TAL	8429	4	FI	9811	
8	22	14	49	22.6114	1	23	10	37.371	17	36	56.07	4	9006	NAINI TAL	8429	6	FI	9812	
8	22	20	7	14.5640	1	18	38	15.614	12	59	36.36	4	9006	NAINI TAL	8434	2	FI	210	
8	22	20	7	46.5642	1	18	43	15.238	11	54	48.62	4	9006	NAINI TAL	8434	4	FI	9813	
8	23	1	9	2.5682	1	20	56	51.202	63	34	35.66	4	9009	CURACAO	8855	2	AM	1525	
8	23	1	23	14.5672	1	19	9	48.381	5	29	42.23	4	9004	SAN FERNAN	10038	5	AM	1412	
8	23	1	56	27.2441	1	6	51	5.035	-71	9	55.70	4	9002	OLIFANTS	14134	9	BZ	1188	

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	8 23	3 57 46.5559	1 19 11 41.761	48 59 49.11	4	9009 CURACAO	8861	2 BM	1526
	8 23	3 58 18.5603	1 19 21 15.861	48 22 48.06	4	9009 CURACAO	8861	6 BM	1527
	8 23	4 1 9.6019	1 21 38 6.036	20 51 38.89	4	9010 JUPITER	10686	4 EM	1444
	8 23	6 11 41.4720	1 17 0 8.889	67 24 49.80	4	9012 MAUI	10916	3 KA	1296
	8 23	6 12 21.4720	1 17 17 10.493	67 27 12.73	4	9012 MAUI	10916	8 TA	1297
	8 23	6 34 42.5559	1 23 11 53.801	28 12 39.37	4	9012 MAUI	10917	4 KA	1298
	8 23	6 35 22.5561	1 23 17 16.654	26 31 43.05	4	9012 MAUI	10917	9 KA	1299
	8 23	9 1 17.8184	1 16 48 44.615	51 33 23.37	4	9012 MAUI	10921	7 KA	1300
	8 24	0 56 34.5845	1 18 9 32.242	17 33 28.26	4	9004 SAN FERNAN	10061	3 SC	1186
	8 24	0 56 50.5849	1 18 12 12.315	17 8 34.04	4	9004 SAN FERNAN	10061	4 SC	1187
	8 24	1 2 42.5833	1 19 13 6.461	5 8 4.93	4	9004 SAN FERNAN	10062	5 SC	3973
	8 24	1 2 58.5839	1 19 15 58.823	4 27 2.76	4	9004 SAN FERNAN	10062	6 SC	3974
	8 24	3 34 42.5594	1 22 13 30.975	23 19 2.56	4	9001 ORGAN PASS	11415	11 TA	1175
	8 24	3 34 58.5593	1 22 16 15.047	22 36 33.84	4	9001 ORGAN PASS	11415	13 TA	1176
	8 24	3 37 30.5630	1 19 35 5.180	48 59 21.48	4	9009 CURACAO	8877	5 SU	8522
	8 24	3 37 38.5629	1 19 37 33.294	48 48 7.66	4	9009 CURACAO	8877	3 BM	1528
	8 24	3 37 46.5611	1 22 43 32.794	15 10 15.06	4	9001 ORGAN PASS	11416	5 SU	8514
	8 24	3 37 46.5629	1 19 40 1.716	48 36 37.05	4	9009 CURACAO	8877	4 SU	8523
	8 24	3 37 54.5609	1 22 44 47.619	14 49 2.85	4	9001 ORGAN PASS	11416	6 NG	1210
	8 24	3 37 54.5626	1 19 42 30.621	48 24 54.58	4	9009 CURACAO	8877	5 SU	8524
	8 24	3 38 2.5610	1 22 46 2.000	14 27 58.09	4	9001 ORGAN PASS	11416	7 SU	8515
	8 24	3 38 2.5630	1 19 44 59.285	48 12 49.93	4	9009 CURACAO	8877	6 SU	8525
	8 24	3 38 10.5611	1 22 47 16.156	14 6 54.34	4	9001 ORGAN PASS	11416	8 SU	8516
	8 24	3 38 10.5633	1 19 47 28.546	48 0 33.34	4	9009 CURACAO	8877	7 BM	1529
	8 24	3 38 18.5606	1 22 48 30.016	13 45 48.11	4	9001 ORGAN PASS	11416	9 VG	1211
	8 24	3 38 18.5632	1 19 49 58.054	47 47 54.83	4	9009 CURACAO	8877	8 SU	8526
	8 24	3 38 26.5613	1 22 49 43.819	13 24 43.87	4	9001 ORGAN PASS	11416	10 SU	8517
	8 24	6 7 14.5582	1 17 50 44.600	34 42 59.18	4	9001 ORGAN PASS	11422	2 VG	1212
	8 24	6 7 46.5584	1 17 57 56.261	34 9 48.13	4	9001 ORGAN PASS	11422	6 VG	1213
	8 24	8 38 34.1132	1 16 27 56.288	52 49 12.79	4	9012 MAUI	10931	8 TA	1580
	8 24	8 38 50.1134	1 16 31 48.999	52 52 11.75	4	9012 MAUI	10931	10 TA	1302
	8 24	16 25 36.2406	1 17 56 58.554	58 25 41.46	4	9008 SHIRAZ	13668	9 AC	1429
	8 24	19 24 42.5596	1 20 6 37.433	22 5 57.77	4	9008 SHIRAZ	13674	3 AC	1430
	8 24	19 25 6.5603	1 20 12 48.036	20 55 25.97	4	9008 SHIRAZ	13674	6 AC	1431
	8 24	19 27 14.5639	1 20 45 42.857	14 1 23.13	4	9008 SHIRAZ	13675	2 KA	1530
	8 25	3 8 18.7657	1 17 22 44.714	55 29 55.24	4	9009 CURACAO	8894	3 FI	3983
	8 25	8 20 13.9363	1 17 16 36.867	54 17 58.04	4	9012 MAUI	10949	4 TA	3978
	8 25	8 21 17.9424	1 17 35 3.760	54 2 12.41	4	9012 MAUI	10949	8 TA	3979
	8 26	2 45 3.9091	1 20 46 42.201	39 43 0.43	4	9001 ORGAN PASS	11443	3 VG	2436
	8 26	2 45 19.9090	1 20 49 58.574	39 8 48.30	4	9001 ORGAN PASS	11443	5 VG	1214
	8 26	2 47 52.0270	1 17 40 1.007	56 40 26.76	4	9009 CURACAO	8902	7 FI	901
	8 26	7 57 39.9811	1 16 59 5.704	55 41 36.27	4	9012 MAUI	10967	5 TA	3980
	8 26	7 58 3.9813	1 17 5 59.730	55 39 21.15	4	9012 MAUI	10967	8 TA	3981
	8 26	8 51 20.7818	1 0 1 42.009	-84 38 14.89	4	9011 VILLA D'OLIO	10418	5 EM	1391
	8 27	2 26 34.5980	1 17 45 20.448	57 50 52.57	4	9009 CURACAO	8910	7 FI	902

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 27	7 36 15.9683	1	17 2 23.818	56 52 26.28	4	9012 MAUI	10978	7 JM	1308
8 27	20 39 38.4755	1	17 3 0.935	47 43 31.35	4	9004 SAN FERNAN	10146	6 MJ	3972
8 28	8 11 7.1421	1	8 6 14.311	-68 51 2.97	4	9011 VILLA DDOLO	10439	9 EM	1392
8 28	8 11 11.1421	1	8 10 29.428	-68 2 35.85	4	9011 VILLA DDOLO	10439	10 EM	5003
8 29	6 52 46.4250	1	16 59 50.033	59 1 19.80	4	9012 MAUI	11003	3 NG	1309
8 29	6 53 10.4251	1	17 7 24.483	58 55 4.91	4	9012 MAUI	11003	6 NG	1310
8 29	17 24 57.9277	1	16 56 57.369	47 24 6.35	4	9008 SHIRAZ	13771	4 KA	1531
8 29	20 9 5.9587	1	20 10 51.774	30 57 51.16	4	9004 SAN FERNAN	10200	7 SC	1182
8 29	20 9 21.9585	1	20 14 1.061	30 23 24.54	4	9004 SAN FERNAN	10200	8 SC	1183
8 31	6 11 15.4130	1	17 39 37.658	59 43 1.27	4	9012 MAUI	11045	4 VG	1311
8 31	6 11 39.4131	1	17 47 24.261	59 25 30.78	4	9012 MAUI	11045	7 VG	1312
9 1	0 45 28.0367	1	20 43 35.224	34 28 14.59	4	9010 JUPITER	10853	4 YK	4184
9 1	0 45 40.1486	1	20 45 44.672	34 0 16.28	4	9010 JUPITER	10853	5 YK	4185
9 1	9 31 45.2579	1	17 42 21.552	-82 25 22.63	4	9011 VILLA DDOLO	10483	3 PG	3076
9 1	9 31 49.2578	1	17 14 39.038	-82 49 53.04	4	9011 VILLA DDOLO	10483	4 PG	3681
9 1	20 5 15.4209	1	10 56 18.179	-59 50 37.68	4	9003 WOOMERA	15631	3 BN	4753
9 2	9 10 51.0443	1	17 46 57.512	-82 26 45.61	4	9011 VILLA DDOLO	10492	5 PG	3078
9 2	9 10 55.0439	1	17 20 6.809	-82 54 44.16	4	9011 VILLA DDOLO	10492	6 PG	3682
9 2	19 44 33.2539	1	10 41 47.154	-58 12 42.48	4	9003 WOOMERA	15646	6 BN	4602
9 2	19 44 37.2539	1	10 40 42.787	-57 28 25.99	4	9003 WOOMERA	15646	7 BN	4603
9 5	18 39 25.9168	1	16 25 50.241	-84 18 11.35	4	9003 WOOMERA	15689	4 BN	4604
9 5	18 39 41.9165	1	13 54 48.826	-84 19 29.36	4	9003 WOOMERA	15689	8 BN	7108
9 6	6 52 10.0647	1	17 15 2.749	43 10 55.32	4	9012 MAUI	11170	4 YK	4598
9 6	6 52 42.0648	1	17 21 59.459	42 36 19.80	4	9012 MAUI	11170	8 YK	4599
9 6	18 18 56.3931	1	12 15 6.946	-84 31 51.18	4	9003 WOOMERA	15709	4 BA	3277
9 6	18 19 12.0579	1	11 0 26.261	-81 44 34.24	4	9003 WOOMERA	15709	8 BA	3278
9 8	17 39 27.7771	1	8 56 40.147	-58 37 25.17	4	9003 WOOMERA	15743	6 BA	3279
9 8	17 39 31.7771	1	8 56 50.343	-57 57 0.64	4	9003 WOOMERA	15743	7 BA	3280
9 9	5 48 34.8908	1	17 34 29.772	45 1 38.64	4	9012 MAUI	11182	5 YK	4600
9 9	5 48 50.8909	1	17 38 4.151	44 40 20.73	4	9012 MAUI	11182	7 YK	4601
9 10	0 28 59.0016	1	20 53 17.036	1 8 58.79	4	9010 JUPITER	10996	4 YK	4596
9 10	0 30 3.0017	1	21 2 37.287	-1 26 2.97	4	9010 JUPITER	10996	8 YK	4597
9 10	23 56 34.4748	1	18 15 19.537	44 27 58.59	4	9009 CURACAO	8987	9 YK	4177
9 10	23 56 42.4754	1	18 16 58.210	44 15 22.10	4	9009 CURACAO	8987	10 YK	4948
9 11	15 48 41.8854	1	19 17 46.422	11 21 54.45	4	9008 SHIRAZ	14040	2 YK	4174
9 11	15 49 13.8860	1	19 22 50.971	10 6 16.23	4	9008 SHIRAZ	14040	4 YK	4175
9 11	19 23 25.6257	1	9 44 45.893	-40 14 43.62	4	9003 WOOMERA	15801	6 BA	3281
9 12	15 36 23.8233	1	20 38 53.409	-9 20 15.56	4	9008 SHIRAZ	14060	3 YK	4947
9 12	15 37 3.8240	1	20 44 43.336	-10 51 43.89	4	9008 SHIRAZ	14060	8 YK	4176
9 13	2 19 11.7280	1	19 45 21.246	-27 51 26.23	4	9009 CURACAO	9007	4 YK	4178
9 13	2 19 15.7277	1	19 46 8.345	-28 6 26.12	4	9009 CURACAO	9007	5 YK	4179
9 14	2 0 36.9378	1	20 23 24.320	-36 7 55.84	4	9009 CURACAO	9020	4 YK	4180
9 14	2 0 44.9380	1	20 25 17.752	-36 36 24.79	4	9009 CURACAO	9020	6 YK	4181
9 14	7 45 25.7166	1	19 48 28.829	-78 58 28.57	4	9011 VILLA DDOLO	10529	5 PG	3080
9 14	7 45 29.7167	1	19 44 0.282	-79 49 24.81	4	9011 VILLA DDOLO	10529	6 PG	3683

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	9 14	7 49 36.4292	1	9 13 49.628	-43 40 15.53	4	9011 VILLA DOLO	10530 6 PG 3082
	9 14	7 49 40.4291	1	9 13 54.453	-42 56 54.87	4	9011 VILLA DOLO	10530 7 PG 3083
	9 14	18 16 45.6629	1	18 57 36.224	-81 48 2.61	4	9003 WOOMERA	15855 9 BA 3282
	9 14	18 16 47.6629	1	18 51 59.782	-82 11 6.45	4	9003 WOOMERA	15855 10 3A 3283
	9 15	7 25 43.8109	1	10 1 52.659	-83 31 51.51	4	9011 VILLA DOLO	10552 4 PG 3084
	9 15	7 25 47.8108	1	9 51 38.548	-82 38 18.13	4	9011 VILLA DOLO	10552 5 PG 3085
	9 15	7 28 43.6605	1	9 2 18.315	-44 45 15.92	4	9011 VILLA DOLO	10553 6 PG 3086
	9 15	7 28 47.6606	1	9 2 25.112	-44 2 55.12	4	9011 VILLA DOLO	10553 7 PG 3087
	9 16	11 53 20.7657	1	20 59 37.879	14 48 50.43	4	9003 WOOMERA	15896 4 BA 3284
	9 16	11 54 0.7655	1	21 9 16.758	13 6 25.74	4	9003 WOOMERA	15896 9 BA 3285
	9 16	17 37 5.1807	1	9 2 7.400	-68 35 6.50	4	9003 WOOMERA	15906 9 BA 3287
	9 17	1 3 8.8951	1	21 31 44.191	11 44 10.75	4	9011 VILLA DOLO	10584 3 PG 3089
	9 17	1 3 16.8949	1	21 33 47.820	11 22 47.61	4	9011 VILLA DOLO	10584 4 PG 3090
	9 17	11 34 53.6327	1	21 40 19.324	7 51 19.21	4	9003 WOOMERA	15921 5 LT 3046
	9 17	11 35 9.6325	1	21 44 43.461	7 5 5.66	4	9003 WOOMERA	15921 7 LT 3047
	9 17	19 28 25.3421	1	20 43 1.885	-1 2 17.92	4	9002 OLIFANTS	14587 4 LT 4737
	9 17	19 28 33.3421	1	20 45 10.744	-1 30 52.17	4	9002 OLIFANTS	14587 5 LT 4738
	9 18	0 43 20.4300	1	21 50 41.129	8 23 0.45	4	9011 VILLA DOLO	10605 3 PG 3091
	9 18	0 43 28.4303	1	21 52 48.580	8 1 9.24	4	9011 VILLA DOLO	10605 4 PG 3092
	9 18	19 9 34.2814	1	21 26 1.295	-8 31 32.11	4	9002 OLIFANTS	14611 5 LT 4739
	9 19	10 56 48.3861	1	22 46 3.377	-3 9 36.27	4	9003 WOOMERA	15973 5 LT 3048
	9 19	10 57 0.3861	1	22 49 45.086	-3 43 16.63	4	9003 WOOMERA	15973 8 LT 3049
	9 19	13 34 32.4852	1	19 12 28.738	-3 5 11.46	4	9003 WOOMERA	15981 4 LT 3050
	9 19	13 35 4.4847	1	19 17 3.380	-4 37 18.08	4	9003 WOOMERA	15981 6 LT 3051
	9 19	18 50 30.1707	1	22 9 25.555	-14 56 33.78	4	9002 OLIFANTS	14631 4 LT 4740
	9 19	18 50 38.1711	1	22 12 24.215	-15 25 57.44	4	9002 OLIFANTS	14631 5 LT 5811
	9 20	8 27 13.4916	1	4 30 17.290	-69 29 28.36	4	9011 VILLA DOLO	10667 5 PG 3093
	9 20	18 31 57.9689	1	23 6 15.255	-21 49 26.26	4	9002 OLIFANTS	14652 3 LT 4742
	9 20	18 32 13.9698	1	23 12 46.481	-22 36 24.86	4	9002 OLIFANTS	14652 5 LT 4743
	9 20	23 27 27.2774	1	19 52 14.654	-12 49 36.94	4	9009 CURACAO	9057 6 YK 4182
	9 20	23 27 51.2771	1	19 56 15.860	-13 53 46.20	4	9009 CURACAO	9057 9 YK 4183
	9 21	18 35 0.6723	1	21 54 23.530	-60 56 33.74	4	9003 WOOMERA	16007 8 LT 3052
	9 21	18 35 12.6722	1	22 3 27.309	-62 40 59.28	4	9003 WOOMERA	16007 11 LT 3053
	9 21	20 50 56.4783	1	19 7 52.620	-26 50 56.75	4	9002 OLIFANTS	14672 4 LT 4744
	9 21	20 51 4.4785	1	19 9 8.666	-27 26 54.06	4	9002 OLIFANTS	14672 5 LT 5812
	9 22	12 37 44.3431	1	20 48 54.639	-25 49 28.47	4	9003 WOOMERA	16021 5 LT 3054
	9 22	12 38 20.3426	1	21 3 14.579	-28 42 35.50	4	9003 WOOMERA	16021 14 LT 3055
	9 22	18 15 24.0746	1	23 20 15.950	-75 8 0.50	4	9003 WOOMERA	16026 10 LT 3056
	9 22	18 15 28.0744	1	23 31 50.489	-75 44 38.58	4	9003 WOOMERA	16026 11 LT 3057
	9 23	1 32 10.9755	1	18 25 11.104	-0 49 50.40	4	9007 AREQUIPA	10222 7 BA 3289
	9 23	1 32 26.9755	1	18 27 21.025	-1 33 1.29	4	9007 AREQUIPA	10222 8 BA 3290
	9 23	12 19 39.1296	1	22 20 2.437	-37 49 51.87	4	9003 WOOMERA	16034 7 LT 3058
	9 23	12 19 51.1292	1	22 27 25.231	-38 37 30.41	4	9003 WOOMERA	16034 10 LT 3059
	9 23	20 13 4.1869	1	20 27 17.860	-48 37 54.05	4	9002 OLIFANTS	14722 4 LT 4745
	9 23	20 13 36.1872	1	20 42 54.209	-51 42 40.40	4	9002 OLIFANTS	14722 8 LT 4746
	9 23							

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	9 24	12 0 27.1919	23 30 31.946	-41 16 13.38	4	9003 WOOMERA	16049	4 LT	3060
9 24	12 0 47.1917	1	23 44 7.521	-41 58 55.97	4	9003 WOOMERA	16049	9 LT	3061
9 24	19 54 29.2816	1	22 15 24.440	-59 40 28.55	4	9002 OLIFANTS	14743	4 LT	4747
9 24	19 54 37.2810	1	22 22 42.208	-60 11 24.10	4	9002 OLIFANTS	14743	5 LT	4748
9 25	1 29 28.1389	1	23 19 16.510	-80 42 27.38	4	9002 OLIFANTS	14750	8 BN	4749
9 25	11 41 36.6120	1	0 47 47.426	-41 32 47.09	4	9003 WOOMERA	16078	5 LT	3062
9 25	11 41 56.6118	1	1 0 7.005	-41 37 20.23	4	9003 WOOMERA	16078	10 LT	3063
9 25	14 19 26.5798	1	19 0 48.361	-35 40 28.65	4	9003 WOOMERA	16083	5 LT	3064
9 25	14 19 50.5750	1	19 4 9.836	-37 31 56.08	4	9003 WOOMERA	16083	8 LT	3065
9 25	19 35 39.2821	1	0 29 47.186	-61 22 18.06	4	9002 OLIFANTS	14765	7 BN	4750
9 26	14 0 23.8746	1	19 22 10.780	-46 12 19.84	4	9003 WOOMERA	16104	7 LT	3066
9 26	14 0 43.8743	1	19 26 59.376	-48 8 5.10	4	9003 WOOMERA	16104	12 LT	3675
9 26	19 16 41.1295	1	2 3 4.881	-56 22 39.77	4	9002 OLIFANTS	14783	4 BN	4751
9 27	8 48 46.4811	1	7 59 50.466	-48 45 23.90	4	9007 AREQUIPA	10296	7 YK	4168
9 27	18 55 34.0725	1	1 40 47.342	-54 15 1.05	4	9002 OLIFANTS	14808	9 BN	5813
9 28	0 30 58.0600	1	8 7 38.333	-37 22 24.64	4	9002 OLIFANTS	14817	11 BN	4752
9 29	8 7 3.1847	1	8 13 50.510	-51 36 53.19	4	9007 AREQUIPA	10335	4 YK	4170
9 29	8 7 23.1845	1	8 20 14.681	-46 32 59.42	4	9007 AREQUIPA	10335	9 YK	7659
9 29	12 3 4.7088	1	1 10 28.502	-69 54 35.87	4	9003 WOOMERA	16129	4 LT	3068
9 29	12 3 24.7085	1	1 41 38.682	-69 9 43.37	4	9003 WOOMERA	16129	9 LT	3069
9 29	18 36 1.6322	1	2 8 11.247	-20 56 27.49	4	9003 WOOMERA	16141	5 LT	3070
9 29	18 36 7.6321	1	2 16 32.845	-19 49 13.31	4	9003 WOOMERA	16141	8 LT	3071
9 30	7 46 41.9516	1	8 22 57.387	-45 16 37.48	4	9007 AREQUIPA	10352	6 YK	7660
9 30	7 46 49.9516	1	8 24 39.577	-43 25 29.79	4	9007 AREQUIPA	10352	8 YK	4173
9 30	12 43 46.8740	1	2 57 45.165	-61 52 0.77	4	9003 WOOMERA	16159	6 LT	3072
9 30	12 43 54.8737	1	3 4 35.838	-61 15 29.89	4	9003 WOOMERA	16159	8 LT	3073
9 30	18 16 56.1128	1	4 36 9.838	-3 11 44.30	4	9003 WOOMERA	16170	2 LT	3074
9 30	18 17 8.1123	1	4 49 59.816	-0 21 7.53	4	9003 WOOMERA	16170	8 LT	3075

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	DBS.VO.
1963	7 2	14 27 27.1080	1					
	7 2	14 27 31.1079	1		9012 MAUI	10039	4	2798
	7 3	8 52 49.7215	1	- 8 16 57.82	9012 MAUI	10039	6	2799
	7 3	8 53 1.7217	1	-13 55 7.63	9009 CURACAO	8152	4	4397
	7 3	8 58 3.5057	1	-13 7 37.09	9009 CURACAO	8152	7	4398
	7 3		1	19 17 15.45	9009 CURACAO	8153	5	4399
	7 3		1					
	7 3	8 58 37.4320	1	-16 47 20.47	9010 JUPITER	9888	4	4648
	7 3	8 58 41.4320	1	-16 21 37.83	9010 JUPITER	9888	5	4649
	7 4	0 25 27.5356	1	-10 57 29.31	9008 SHIRAZ	12707	3	4391
	7 4	0 25 32.3211	1	-10 23 24.89	9008 SHIRAZ	12707	5	4392
	7 4	3 26 7.3750	1	-37 0 27.00	9004 SAN FERNAN	8895	3	3258
	7 4	3 26 23.3751	1	-36 17 15.16	9004 SAN FERNAN	8895	5	3259
	7 4	3 29 49.1897	1	-23 44 30.86	9004 SAN FERNAN	8896	6	3250
	7 4	3 30 1.1898	1	-22 47 50.94	9004 SAN FERNAN	8896	9	3261
	7 5	7 9 48.9094	1	- 8 10 21.41	9009 CURACAO	8179	3	4400
	7 5	7 10 0.9096	1	- 6 38 54.97	9009 CURACAO	8179	7	4401
	7 5	7 12 42.1258	1	14 57 31.97	9009 CURACAO	8180	9	5559
	7 5	7 12 44.1261	1	15 12 36.44	9009 CURACAO	8180	10	4647
	7 8	9 17 56.5993	1	12 42 47.54	9010 JUPITER	9960	4	5560
	7 8	9 18 0.5993	1	13 24 2.01	9010 JUPITER	9960	5	4651
	7 9	3 48 14.6593	1	-11 42 50.51	9004 SAN FERNAN	9036	3	3252
	7 9	3 48 26.6590	1	-10 32 9.91	9004 SAN FERNAN	9036	6	3253
	7 9	13 1 9.3776	1	15 5 31.17	9012 MAUI	10190	7	4664
	7 10	12 42 43.2726	1	30 45 57.93	9012 MAUI	10221	3	5090
	7 10	12 42 47.2726	1	31 31 33.84	9012 MAUI	10221	5	5091
	7 11	8 9 17.1076	1	-16 5 47.96	9010 JUPITER	9999	3	4652
	7 11	8 9 25.1078	1	-15 27 14.22	9010 JUPITER	9999	4	4653
	7 11	23 39 0.9956	1	9 37 32.22	9008 SHIRAZ	12883	5	4393
	7 11	23 39 2.9955	1	9 56 12.52	9008 SHIRAZ	12883	6	4394
	7 13	9 35 4.4452	1	17 15 3.87	9010 JUPITER	10012	4	4661
	7 13	9 35 12.4451	1	18 16 11.50	9010 JUPITER	10012	5	4661
	7 13	12 35 23.5987	1	4 40 37.46	9012 MAUI	10273	6	5092
	7 13	12 35 27.5987	1	5 13 12.08	9012 MAUI	10273	8	5093
	7 13	12 38 8.8826	1	27 41 32.53	9012 MAUI	10274	2	5094
	7 14	4 6 13.0447	1	3 36 23.59	9004 SAN FERNAN	9171	3	3264
	7 14	4 6 21.0450	1	4 33 40.74	9004 SAN FERNAN	9171	5	3265
	7 14	18 46 52.8203	1	-46 52 53.06	9002 OLIFANTS	13438	9	2786
	7 15	1 36 40.0464	1	-18 18 26.72	9004 SAN FERNAN	9192	1	1334
	7 15	1 36 48.0462	1	-17 45 7.05	9004 SAN FERNAN	9192	2	3482
	7 15	20 6 57.8168	1	- 7 19 41.53	9006 NAINI TAL	8301	6	2387
	7 15	20 7 1.8170	1	- 6 56 47.97	9006 NAINI TAL	8301	7	2388
	7 15	20 9 3.0730	1	4 51 56.04	9006 NAINI TAL	8302	5	2389
	7 15	20 9 11.0731	1	5 37 22.74	9006 NAINI TAL	8302	7	2390
	7 16	2 17 53.4429	1	-15 58 40.80	9004 SAN FERNAN	9226	2	1336
	7 16	2 18 9.4432	1	-14 45 54.63	9004 SAN FERNAN	9226	4	1337
	7 16	8 27 42.5048	1	1 47 4.79	9010 JUPITER	10072	5	1572

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 7 16	8 27 54.5048	1	19 28 21.755	2 57 8.63	4	9010 JUPITER	10072	8 YK	4657
7 16	11 32 25.6163	1	23 54 57.325	14 37 50.00	4	9012 MAUI	10320	4 YK	5095
7 16	11 32 33.6163	1	23 59 22.514	15 23 2.49	4	9012 MAUI	10320	8 YK	5096
7 17	2 58 10.4765	1	20 39 51.551	-14 29 26.07	4	9004 SAN FERNAN	9260	1 VD	3483
7 17	2 58 18.4765	1	20 42 41.973	-13 58 43.05	4	9004 SAN FERNAN	9260	2 VD	1339
7 17	3 2 25.6698	1	22 58 50.964	10 13 51.16	4	9004 SAN FERNAN	9261	2 PK	1340
7 17	3 2 29.6699	1	23 2 5.707	10 44 43.22	4	9004 SAN FERNAN	9261	3 PK	1341
7 18	18 25 43.9907	1	19 8 17.929	-38 15 22.19	4	9002 OLIFANTS	13486	6 YK	2789
7 18	18 26 15.9898	1	19 13 0.878	-37 12 3.28	4	9002 OLIFANTS	13486	8 YK	2790
7 19	0 35 16.0991	1	18 54 13.304	-33 36 42.80	4	9011 VILLA DOLO	9874	3 HC	3487
7 19	0 36 20.0978	1	19 3 29.227	-31 29 50.03	4	9011 VILLA DOLO	9874	7 HC	2795
7 19	7 24 14.4601	1	20 56 0.202	11 31 54.57	4	9010 JUPITER	10139	9 MY	5561
7 19	7 24 26.4603	1	21 2 23.565	13 12 33.75	4	9010 JUPITER	10139	12 MY	4663
7 19	7 26 10.4644	1	22 12 47.325	29 1 26.17	4	9010 JUPITER	10140	2 YK	4654
7 19	10 34 28.8400	1	20 12 50.484	34 3 49.16	4	9001 ORGAN PASS	11114	5 YK	2776
7 19	10 34 32.8408	1	20 14 38.295	34 48 52.01	4	9001 ORGAN PASS	11114	7 YK	2777
7 19	19 6 5.8827	1	18 21 33.620	-41 1 39.76	4	9002 OLIFANTS	13502	3 YK	5555
7 20	1 54 36.8269	1	22 6 35.223	-9 15 7.40	4	9004 SAN FERNAN	9346	1 PK	1342
7 20	1 57 34.6456	1	23 54 44.365	7 11 42.74	4	9004 SAN FERNAN	9347	1 PK	1343
7 20	8 8 14.5143	1	1 14 53.952	16 39 36.42	4	9001 ORGAN PASS	11117	10 YK	2778
7 20	8 26.5143	1	1 21 46.714	17 21 54.82	4	9001 ORGAN PASS	11117	16 YK	2779
7 22	11 52 42.2167	1	18 1 41.463	-31 59 25.38	4	9003 WOOMERA	15033	4 BA	3250
7 22	11 53 46.2146	1	18 12 18.895	-29 48 20.42	4	9003 WOOMERA	15033	8 BA	3251
7 22	21 46 33.0759	1	18 42 7.947	12 7 3.38	4	9006 NAINI TAL	8338	5 GL	2391
7 22	21 46 41.0756	1	18 43 8.716	12 51 34.82	4	9006 NAINI TAL	8338	6 GL	2392
7 23	0 15 24.3530	1	19 14 44.364	-21 48 53.80	4	9011 VILLA DOLO	9918	5 HC	2796
7 23	0 15 56.3526	1	19 18 45.432	-20 41 49.61	4	9011 VILLA DOLO	9918	7 HC	2797
7 23	10 10 59.0599	1	19 51 33.850	39 44 15.45	4	9001 ORGAN PASS	11168	3 YK	2780
7 23	10 11 3.0598	1	19 53 16.265	40 28 56.73	4	9001 ORGAN PASS	11168	5 YK	2781
7 23	13 11 36.3945	1	18 19 30.228	30 1 59.87	4	9012 MAUI	10436	8 YK	5100
7 23	13 11 40.3945	1	18 19 53.388	30 30 43.44	4	9012 MAUI	10436	9 YK	5101
7 23	18 45 56.1913	1	18 46 59.564	-29 12 19.61	4	9002 OLIFANTS	13562	7 YK	2792
7 23	18 46 28.1911	1	18 51 52.210	-28 0 39.74	4	9002 OLIFANTS	13562	9 YK	2793
7 23	19 21 28.4078	1	23 25 51.444	15 6 35.27	4	9006 NAINI TAL	8359	5 GL	2393
7 23	19 21 36.4079	1	23 30 57.106	15 50 7.21	4	9006 NAINI TAL	8359	7 GL	2394
7 24	7 43 4.4079	1	0 7 6.507	15 33 39.78	4	9001 ORGAN PASS	11181	3 YK	2782
7 24	7 43 10.4078	1	0 10 53.177	16 0 40.49	4	9001 ORGAN PASS	11181	6 YK	2783
7 25	2 12 23.4405	1	20 32 9.159	3 32 36.41	4	9004 SAN FERNAN	9463	1 PK	1344
7 25	2 12 27.4406	1	20 33 55.141	3 56 15.37	4	9004 SAN FERNAN	9463	2 PK	1345
7 25	8 24 31.8878	1	23 18 15.105	29 55 42.10	4	9001 ORGAN PASS	11203	4 YK	2784
7 25	8 24 39.8878	1	23 25 41.152	30 44 9.32	4	9001 ORGAN PASS	11203	8 YK	2785
7 25	10 53 8.4032	1	19 12 32.239	-16 51 22.45	4	9003 WOOMERA	15066	2 BA	3252
7 25	10 53 24.4030	1	19 14 34.348	-16 16 9.04	4	9003 WOOMERA	15066	3 BA	3253
7 25	20 42 57.3450	1	0 8 43.403	19 21 16.13	4	9008 SHIRAZ	13197	3 YK	4395
7 25	20 43 1.3449	1	0 11 5.877	19 37 14.46	4	9008 SHIRAZ	13197	4 YK	6303

DATE		TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			RMS	STATION	FRAME NO.	MS	OBS. NO.		
Y	M	D	H	M	S	MS	H	M	S	D	M	S	S					
1963	7	26	2	19	20.5509	1	17	55	49.376	-33	30	57.47	4	9007	AREQUIPA	9505	2 YK	4387
	7	26	2	19	52.5507	1	18	1	29.885	-32	22	15.91	4	9007	AREQUIPA	9505	4 YK	4388
	7	26	2	57	32.2753	1	21	16	19.836	41	19	3.72	4	9004	SAN FERNAN	9492	5 GL	2382
	7	26	2	57	36.2752	1	21	20	4.263	42	2	31.62	4	9004	SAN FERNAN	9492	6 GL	3485
	7	27	0	29	35.4211	1	0	20	15.026	11	24	37.48	4	9004	SAN FERNAN	9512	6 GL	2383
	7	27	0	29	39.4211	1	0	22	26.941	11	39	4.61	4	9004	SAN FERNAN	9512	7 GL	2384
	7	27	12	16	49.9226	1	18	12	38.936	-9	38	17.27	4	9003	WOMERA	15107	6 BA	3254
	7	27	12	16	57.9224	1	18	13	52.388	-9	17	43.99	4	9003	WOMERA	15107	7 BA	3255
	7	27	18	26	38.9298	1	19	12	22.599	-14	14	31.04	4	9002	OLIFANTS	13647	6 YK	4382
	7	28	19	4	25.9184	1	18	1	50.211	-20	35	49.96	4	9002	OLIFANTS	13655	7 YK	4383
7	28	19	4	57.9186	1	18	6	46.617	-19	19	55.84	4	9002	OLIFANTS	13655	9 YK	4384	
7	30	1	59	40.9936	1	18	24	57.112	-18	25	6.83	4	9007	AREQUIPA	9589	2 MY	5558	
7	30	1	59	56.9928	1	18	27	36.103	-17	41	58.68	4	9007	AREQUIPA	9589	3 MY	4390	
7	31	0	4	14.3085	1	23	10	31.968	9	32	47.50	4	9004	SAN FERNAN	9602	3 GL	2385	
7	31	0	4	26.3083	1	23	17	18.186	10	23	0.01	4	9004	SAN FERNAN	9602	6 GL	2386	
7	31	11	58	23.4214	1	18	46	46.942	8	55	16.89	4	9003	WOMERA	15164	3 BA	3256	
7	31	11	58	39.4211	1	18	49	10.930	9	37	57.45	4	9003	WOMERA	15164	5 BA	3257	
7	31	18	8	21.7532	1	19	41	45.514	3	24	8.29	4	9002	OLIFANTS	13718	8 YK	4385	
7	31	18	9	1.9605	1	19	47	13.871	5	1	10.61	4	9002	OLIFANTS	13718	12 YK	4386	
8	2	1	25	22.2561	1	19	58	20.166	16	47	24.91	4	9004	SAN FERNAN	9657	7 VD	451	
8	2	7	35	11.7158	1	20	57	35.428	28	29	30.25	4	9001	ORGAN PASS	11235	3 BA	425	
8	2	7	35	21.7157	1	21	4	29.082	29	45	19.07	4	9001	ORGAN PASS	11235	8 BA	426	
8	2	7	38	35.0588	1	0	12	16.235	47	18	51.83	4	9001	ORGAN PASS	11236	9 BA	428	
8	2	10	40	19.5589	1	21	59	19.939	59	55	54.62	4	9012	MAUI	10610	4 VD	472	
8	2	10	40	27.5590	1	22	8	26.708	60	33	18.78	4	9012	MAUI	10610	6 VD	569	
8	3	2	10	0.4960	1	20	18	29.686	47	32	22.56	4	9004	SAN FERNAN	9685	5 VD	452	
8	3	2	10	12.4959	1	20	28	25.790	49	37	18.30	4	9004	SAN FERNAN	9685	8 VD	453	
8	3	5	10	36.2130	1	22	51	5.452	42	31	50.36	4	9010	JUPITER	10384	4 PG	969	
8	3	20	35	48.2855	1	21	39	45.798	39	31	14.89	4	9008	SHIRAZ	13330	5 BA	440	
8	3	20	35	52.2856	1	21	43	9.006	39	57	9.22	4	9008	SHIRAZ	13330	6 BA	441	
8	6	1	5	3.1068	1	22	10	26.622	47	29	15.55	4	9004	SAN FERNAN	9746	7 VD	454	
8	6	1	5	7.1069	1	22	15	18.332	47	53	36.59	4	9004	SAN FERNAN	9746	8 VD	455	
8	7	1	45	47.7470	1	19	35	38.601	45	37	43.33	4	9004	SAN FERNAN	9770	6 VD	458	
8	7	1	45	51.7471	1	19	38	0.304	46	16	33.37	4	9004	SAN FERNAN	9770	7 VD	459	
8	7	16	34	42.9624	1	19	0	4.856	-2	28	18.29	4	9002	OLIFANTS	13841	8 SJ	835	
8	7	22	42	25.7677	1	18	36	42.519	-2	6	11.20	4	9011	VILLA DOLLO	10187	5 VD	468	
8	7	22	43	45.7678	1	18	45	10.609	0	26	31.57	4	9011	VILLA DOLLO	10187	10 VD	469	
8	8	8	35	4.3288	1	18	9	4.904	40	22	17.93	4	9001	ORGAN PASS	11295	5 BA	429	
8	8	8	35	8.3289	1	18	9	45.871	40	53	19.84	4	9001	ORGAN PASS	11295	6 BA	430	
8	8	22	10	55.9767	1	16	40	34.522	-24	1	31.02	4	9011	VILLA DOLLO	10204	4 VD	470	
8	8	22	11	59.9747	1	16	48	26.900	-22	10	24.12	4	9011	VILLA DOLLO	10204	8 VD	471	
8	8	22	52	32.4246	1	19	1	28.276	1	30	39.45	4	9004	SAN FERNAN	9817	4 VD	460	
8	8	22	52	40.4244	1	19	3	41.628	2	1	37.20	4	9004	SAN FERNAN	9817	5 VD	461	
8	10	9	20	51.3767	1	18	37	12.009	4	51	41.10	4	9003	WOMERA	15298	3 VD	444	
8	10	9	20	59.3767	1	18	38	5.096	5	7	21.44	4	9003	WOMERA	15298	4 VD	558	

DATE Y M D	TIME (A-I)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			RMS S	STATION	FRAME NO.	MS	DB S.V.D.
	H	M	S		H	M	S	D	M	S					
1963	8	10	9 42 36.6955	1	17 18 24.413			7 26	9.48		4	9012 MAUI	10753	3 MY	1374
	8	10	9 42 52.6956	1	17 20 28.794			8 26	31.22		4	9012 MAUI	10753	5 MY	1545
	8	11	19 40 41.2215	1	17 54 23.922			5 27	39.82		4	9008 SHIRAZ	13442	3 VD	463
	8	12	16 37 29.4156	1	16 35 59.291			-24 40	8.64		4	9002 OLIFANTS	13924	11 SJ	836
	8	12	16 49 39.7343	1	18 1 15.716			-0 42	10.58		4	9002 OLIFANTS	13928	6 SJ	837
	8	12	16 50 58.9847	1	18 10 37.711			2 8	1.68		4	9002 OLIFANTS	13928	10 SJ	838
	8	14	3 31 51.4013	1	19 24 46.478			75 11	36.06		4	9004 SAN FERNAN	9848	7 VD	462
	8	15	0 56 7.7695	1	18 10 22.111			33 50	34.92		4	9004 SAN FERNAN	9867	4 HC	1126
	8	15	0 56 15.7693	1	18 12 17.270			34 43	13.24		4	9004 SAN FERNAN	9867	5 HC	1127
	8	15	4 15 20.2022	1	23 17 54.380			78 45	55.04		4	9004 SAN FERNAN	9874	3 HC	1128
	8	15	4 15 24.2023	1	23 37 56.074			78 58	57.01		4	9004 SAN FERNAN	9874	4 HC	1129
	8	15	9 32 6.2389	1	17 12 35.202			-0 13	55.52		4	9003 WOOMERA	15369	6 VD	446
	8	15	9 32 22.2385	1	17 14 21.837			0 18	5.95		4	9003 WOOMERA	15369	7 VD	447
	8	15	16 8 55.5414	1	20 52 50.015			0 15	36.36		4	9008 SHIRAZ	13505	8 VD	464
	8	16	1 40 28.4680	1	18 11 51.413			50 35	55.49		4	9004 SAN FERNAN	9884	3 HC	1130
	8	16	1 40 32.4680	1	18 12 54.806			51 9	30.25		4	9004 SAN FERNAN	9884	4 HC	1131
	8	16	23 3 58.9076	1	18 11 8.082			7 21	14.06		4	9004 SAN FERNAN	9900	3 VD	456
	8	16	23 4 6.9076	1	18 12 55.195			7 50	26.01		4	9004 SAN FERNAN	9900	4 VD	457
	8	17	1 53 30.1588	1	16 29 30.890			-6 12	59.42		4	9009 CURACAO	8789	5 PG	973
	8	17	1 53 46.1589	1	16 31 19.770			-5 34	6.28		4	9009 CURACAO	8789	6 PG	974
	8	17	8 47.9839	1	16 51 29.698			-2 26	21.26		4	9012 MAUI	10821	3 MY	1376
	8	17	16 55 56.4246	1	15 54 36.215			-15 17	42.96		4	9002 OLIFANTS	14020	2 SJ	839
	8	19	0 32 32.2967	1	17 57 7.647			37 44	0.96		4	9004 SAN FERNAN	9945	3 HC	1132
	8	19	0 32 40.2969	1	17 59 4.213			38 35	57.53		4	9004 SAN FERNAN	9945	4 HC	1133
	8	19	3 51 56.1540	1	0 15 36.306			76 15	49.95		4	9004 SAN FERNAN	9953	5 HC	1134
	8	19	3 52 0.1540	1	0 32 53.438			76 10	15.70		4	9004 SAN FERNAN	9953	6 HC	1135
	8	19	6 38 53.7830	1	17 25 28.824			29 30	44.79		4	9001 ORGAN PASS	11388	3 3A	435
	8	20	1 16 18.0444	1	17 52 40.673			48 40	14.12		4	9004 SAN FERNAN	9964	4 HC	1136
	8	20	1 16 22.0445	1	17 53 34.432			49 10	5.19		4	9004 SAN FERNAN	9964	5 HC	1137
	8	20	4 34 59.4752	1	1 21 14.116			57 49	48.25		4	9004 SAN FERNAN	9971	3 HC	1138
	8	20	4 35 3.4753	1	1 29 52.320			57 22	1.74		4	9004 SAN FERNAN	9971	5 HC	1139
	8	20	7 0 14.3726	1	16 53 51.555			-10 20	34.16		4	9012 MAUI	10862	7 MY	1377
	8	20	13 51 50.8124	1	7 25 36.402			54 46	17.85		4	9012 MAUI	10874	7 MY	1378
	8	20	22 40 49.2597	1	18 3 13.687			14 22	23.94		4	9004 SAN FERNAN	9981	3 HC	1140
	8	20	22 40 57.2597	1	18 5 8.561			14 54	24.93		4	9004 SAN FERNAN	9981	4 HC	1141
	8	21	7 45 4.6934	1	16 36 53.307			2 37	1.13		4	9012 MAUI	10886	4 MY	1379
	8	21	7 45 20.6932	1	16 38 46.493			3 21	21.20		4	9012 MAUI	10886	6 MY	1380
	8	21	14 30 21.6265	1	18 56 39.760			83 30	25.25		4	9012 MAUI	10895	7 MY	1381
	8	21	14 38 39.4128	1	7 12 40.682			14 14	7.42		4	9012 MAUI	10897	2 BA	442
	8	21	14 38 43.4141	1	7 13 2.712			13 47	25.69		4	9012 MAUI	10897	3 BA	443
	8	21	16 38 53.6086	1	16 27 37.099			2 25	43.17		4	9002 OLIFANTS	14101	5 SJ	840
	8	21	16 39 25.6086	1	16 31 4.089			3 30	40.25		4	9002 OLIFANTS	14101	7 SJ	841
	8	21	20 13 0.0729	1	20 16 52.878			4 57	29.60		4	9004 SAN FERNAN	9997	5 HC	1142
	8	21	20 13 8.0729	1	20 19 18.427			5 19	3.07		4	9004 SAN FERNAN	9997	6 HC	1143
	8	21	23 24 40.4929	1	17 48 56.292			27 12	4.11		4	9004 SAN FERNAN	10008	5 HC	1144

DATE		TIME (A-I)			RMS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	ORS. NO.				
Y	M	D	H	M	S	MS	H	M	S	D	M	S							
1963	8	21	23	24	48.4930	1	17	50	49.176	27	52	31.78	4	9004	SAN FERNAN	10008	6	HC	1145
	8	22	15	18	8.8679	1	5	57	9.374	30	42	36.71	4	9012	MAUI	10914	5	VD	1323
	8	22	15	18	10.8680	1	5	57	56.538	30	17	23.66	4	9012	MAUI	10914	6	VD	1324
	8	23	3	27	28.5057	1	21	31	55.579	70	2	15.95	4	9004	SAN FERNAN	10042	3	PG	981
	8	23	3	27	32.5061	1	21	41	10.311	70	28	18.79	4	9004	SAN FERNAN	10042	4	PG	982
	8	24	0	16	8.2786	1	15	48	6.877	-17	52	29.20	4	9009	CJRACAO	8872	3	PG	975
	8	24	0	16	16.2788	1	15	48	55.293	-17	39	2.73	4	9009	CJRACAO	8872	4	PG	976
	8	24	6	34	12.8372	1	16	23	3.535	-10	4	10.27	4	9012	MAUI	10928	5	VD	1325
	8	24	6	34	28.8371	1	16	24	52.733	-9	31	42.42	4	9012	MAUI	10928	7	VD	1326
	8	24	7	0	5.5413	1	17	8	21.054	48	24	55.67	4	9001	ORGAN PASS	11423	8	BA	437
	8	24	10	19	58.1825	1	0	52	53.926	77	27	34.19	4	9001	ORGAN PASS	11429	4	BA	438
	8	24	10	20	0.1825	1	1	1	22.199	77	19	45.96	4	9001	ORGAN PASS	11429	5	BA	439
	8	24	22	16	50.7905	1	17	44	54.579	18	10	19.47	4	9004	SAN FERNAN	10079	4	PG	983
	8	24	22	16	58.7907	1	17	46	44.090	18	42	0.73	4	9004	SAN FERNAN	10079	5	PG	984
	8	25	1	4	34.9754	1	15	53	27.817	0	27	52.42	4	9009	CJRACAO	8891	5	PG	977
	8	25	1	4	42.9757	1	15	54	14.039	0	46	27.42	4	9009	CJRACAO	8891	6	PG	978
	8	25	4	53	23.5850	1	0	6	7.151	28	7	12.64	4	9004	SAN FERNAN	10093	6	PG	985
	8	25	7	20	51.7869	1	16	19	15.369	6	13	54.25	4	9012	MAUI	10948	6	VD	1327
	8	25	7	21	7.7869	1	16	21	1.096	6	57	34.51	4	9012	MAUI	10948	8	VD	1328
	8	25	14	5	54.0268	1	19	5	36.383	75	29	59.32	4	9012	MAUI	10957	3	LT	1329
8	25	14	6	10.0271	1	19	15	41.337	77	27	47.74	4	9012	MAUI	10957	7	LT	1330	
8	25	14	9	31.2360	1	5	55	12.662	67	52	28.48	4	9012	MAUI	10958	5	LT	1331	
8	25	14	9	35.2361	1	5	56	49.828	67	4	25.51	4	9012	MAUI	10958	7	LT	1332	
8	26	5	6	57.8031	1	17	6	8.470	23	31	59.50	4	9001	ORGAN PASS	11451	7	SJ	832	
8	26	8	35	21.5238	1	5	44	40.142	39	21	32.18	4	9001	ORGAN PASS	11457	3	SJ	833	
8	26	14	53	21.0894	1	4	41	52.900	42	14	20.42	4	9012	MAUI	10974	5	LT	1333	
8	26	14	53	23.0893	1	4	43	23.599	41	45	44.25	4	9012	MAUI	10974	6	LT	1334	
8	27	0	3	41.7439	1	2	53	38.640	62	23	30.28	4	9008	SHIRAZ	13714	4	VD	465	
8	27	0	3	45.7439	1	3	0	39.107	61	35	28.99	4	9008	SHIRAZ	13714	6	VD	466	
8	27	9	21	3.7974	1	3	23	13.658	48	24	42.92	4	9010	JUPITER	10749	5	PG	970	
8	27	9	27	19.3443	1	5	39	6.102	27	29	11.30	4	9009	CJRACAO	8920	8	PG	979	
8	27	9	27	21.3437	1	5	40	0.950	27	4	27.72	4	9009	CJRACAO	8920	9	PG	980	
8	29	13	45	57.8969	1	5	8	16.516	66	22	31.37	4	9012	MAUI	11012	5	LT	1335	
8	29	13	45	59.8970	1	5	9	39.871	65	57	41.14	4	9012	MAUI	11012	6	LT	1336	
8	29	20	13	41.3650	1	6	52	48.666	25	52	2.90	4	9003	WOOMERA	15586	11	VD	448	
8	29	20	16	27.8773	1	7	28	39.104	12	47	19.09	4	9003	WOOMERA	15587	2	VD	449	
8	29	20	16	35.8773	1	7	30	17.088	12	11	35.69	4	9003	WOOMERA	15587	3	VD	450	
8	30	1	25	17.5225	1	16	14	34.622	0	3	41.65	4	9010	JUPITER	10795	5	PG	1543	
8	30	1	25	33.5216	1	16	16	22.380	0	39	21.12	4	9010	JUPITER	10795	6	PG	972	
8	30	1	57	9.0559	1	19	59	19.696	71	10	46.87	4	9004	SAN FERNAN	10217	3	PG	1544	
8	30	1	57	13.0558	1	20	6	13.309	71	42	3.01	4	9004	SAN FERNAN	10217	4	PG	986	
8	30	14	29	14.3856	1	3	31	23.714	43	54	24.66	4	9012	MAUI	11036	7	SJ	1337	
8	30	14	29	16.3855	1	3	33	30.501	43	26	31.41	4	9012	MAUI	11036	8	SJ	1338	
8	30	16	51	6.6711	1	16	4	21.366	-0	29	15.56	4	9008	SHIRAZ	13795	3	VD	457	
8	31	11	55	31.9494	1	7	46	8.190	78	14	28.87	4	9012	MAUI	11053	2	SJ	1339	

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 31	11 55 35.9496	1	7 40 48.362	77 45 48.85	9012 MAUI	11053	3 SJ	1340
9 1	0 22 36.3146	1	0 57 4.097	27 57 53.61	9008 SHIRAZ	13833	2 KA	1873
9 1	0 22 44.3150	1	1 6 38.152	26 33 51.44	9008 SHIRAZ	13833	6 KA	1874
9 2	4 6 15.9637	1	23 43 0.315	14 37 59.59	9004 SAN FERNAN	10294	3 AC	7130
9 2	4 6 31.9638	1	23 58 13.674	12 30 16.89	9004 SAN FERNAN	10294	7 AC	6104
9 2	12 21 52.7866	1	3 41 32.404	70 19 58.98	9012 MAUI	11107	2 KA	3151
9 2	12 21 56.7866	1	3 47 17.732	69 35 24.54	9012 MAUI	11107	4 KA	3152
9 3	14 5 39.9513	1	2 50 3.872	36 29 25.68	9012 MAUI	11134	2 KA	3153
9 3	14 5 45.9515	1	2 56 31.110	35 4 15.87	9012 MAUI	11134	5 KA	3154
9 3	23 17 57.8895	1	3 20 39.980	30 25 2.12	9008 SHIRAZ	13904	1 KA	1875
9 3	23 18 3.8898	1	3 25 47.559	28 56 20.82	9008 SHIRAZ	13904	4 KA	1876
9 5	0 0 28.5187	1	2 0 45.100	2 39 46.01	9008 SHIRAZ	13928	3 KA	1877
9 5	0 0 30.5188	1	2 2 33.790	2 16 39.10	9008 SHIRAZ	13928	4 KA	1878
9 6	0 39 57.8181	1	23 9 46.214	7 13 31.02	9008 SHIRAZ	13950	7 KA	1879
9 9	15 5 39.8983	1	23 45 36.745	- 8 36 58.90	9012 MAUI	11200	11 AM	3155
9 9	15 5 59.8990	1	23 54 52.111	-11 11 22.77	9012 MAUI	11200	16 AM	3156
9 11	0 43 55.2470	1	18 24 18.961	53 58 52.97	9004 SAN FERNAN	10421	3 AM	3329
9 11	3 49 21.0125	1	4 10 51.935	66 23 50.32	9010 JUPITER	11019	6 EM	3217
9 11	6 53 56.9844	1	18 7 17.409	70 57 26.61	9001 ORGAN PASS	11589	3 AC	3170
9 11	6 54 4.9842	1	18 14 15.024	71 51 51.19	9001 ORGAN PASS	11589	4 AC	3171
9 11	22 19 24.5009	1	2 47 16.224	47 44 47.23	9004 SAN FERNAN	10437	5 AM	3330
9 12	19 54 23.5579	1	17 51 46.780	78 58 30.22	9008 SHIRAZ	14067	3 KA	1881
9 12	19 54 31.5568	1	18 2 10.829	79 54 47.29	9008 SHIRAZ	14067	4 KA	1882
9 13	14 46 1.1745	1	1 14 56.989	-40 45 44.74	9012 MAUI	11272	7 EM	3168
9 17	4 36 28.4192	1	16 5 56.483	53 40 52.04	9001 ORGAN PASS	11659	4 AC	3172
9 20	1 2 17.5177	1	4 43 5.501	27 38 25.94	9002 OLIFANTS	14641	4 AM	3707
9 20	1 2 33.5178	1	4 50 7.205	25 38 29.56	9002 OLIFANTS	14641	6 AM	3160
9 20	7 12 11.5655	1	5 50 16.388	7 25 25.45	9007 AREQUIPA	10177	3 KA	1885
9 20	7 12 15.5650	1	5 51 41.227	6 52 48.93	9007 AREQUIPA	10177	4 KA	1886
9 20	16 1 29.8976	1	2 35 39.107	65 44 57.98	9006 NAINI TAL	8582	3 BM	3215
9 20	16 2 9.8986	1	2 49 10.751	60 48 9.74	9006 NAINI TAL	8582	8 BM	3706
9 20	22 11 41.7382	1	0 13 28.107	66 21 47.36	9004 SAN FERNAN	10516	4 TA	3193
9 21	16 42 33.4618	1	0 56 11.861	78 37 55.21	9006 NAINI TAL	8598	6 NG	3218
9 21	16 42 41.4621	1	1 10 33.788	77 45 11.97	9006 NAINI TAL	8598	8 NG	3219
9 21	22 52 36.5753	1	20 50 5.938	66 37 26.58	9004 SAN FERNAN	10531	3 TA	3194
9 21	22 52 48.5756	1	21 10 1.693	66 42 35.14	9004 SAN FERNAN	10531	6 TA	3195
9 22	17 22 46.4062	1	18 17 3.609	71 14 58.57	9006 NAINI TAL	8610	3 NG	3220
9 22	17 22 10.4070	1	18 44 12.690	73 8 16.81	9006 NAINI TAL	8610	6 NG	3221
9 22	23 59 28.4958	1	6 1 45.211	12 4 14.25	9002 OLIFANTS	14697	4 AM	3161
9 22	23 59 52.4968	1	6 8 40.744	9 35 8.09	9002 OLIFANTS	14697	7 AM	3162
9 23	3 8 56.9488	1	1 42 41.508	-15 46 39.44	9002 OLIFANTS	14709	7 AM	3163
9 23	5 42 48.6585	1	18 48 20.725	67 9 49.09	9001 ORGAN PASS	11745	4 AC	3173
9 23	5 42 56.6584	1	18 56 58.945	67 41 44.08	9001 ORGAN PASS	11745	5 JW	3174
9 23	18 30 25.3009	1	2 43 4.541	21 3 42.93	9003 WOOMERA	16039	6 AM	3206
9 23	21 8 12.3454	1	1 48 3.797	45 18 10.81	9004 SAN FERNAN	10569	3 TA	3196

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	9 24	0 40 25.7612	5 9 17.519	10 19 40.47	9002 OLIFANTS	14726	3 AM	3164
	9 24	0 40 33.7615	5 12 53.174	9 14 42.03	9002 OLIFANTS	14726	4 AM	3708
	9 24	15 38 11.5752	2 18 31.980	61 46 15.88	9006 NAINI TAL	8643	3 NG	3222
	9 24	15 38 51.5762	2 31 27.276	56 55 7.98	9006 NAINI TAL	8643	8 NG	3223
	9 24	19 12 0.1864	1 40 14.866	9 30 58.47	9003 WOOMERA	16063	3 AM	3705
	9 24	19 12 24.1862	1 48 50.050	7 3 39.70	9003 WOOMERA	16063	6 AM	3208
	9 24	21 48 14.1897	0 9 2.191	62 11 36.44	9004 SAN FERNAN	10589	4 AC	3197
	9 25	1 21 22.7411	3 26 59.118	5 15 45.99	9002 OLIFANTS	14749	5 EM	3166
	9 25	1 21 30.7406	3 31 36.617	4 1 39.74	9002 OLIFANTS	14749	7 EM	3157
	9 25	3 58 1.3067	1 41 23.566	60 20 49.93	9001 ORGAN PASS	11766	2 JW	3175
	9 25	3 58 25.3072	1 52 43.539	57 22 32.42	9001 ORGAN PASS	11766	5 JW	3176
	9 25	16 18 38.0327	23 52 3.023	77 39 50.42	9006 NAINI TAL	8657	5 NG	3224
	9 25	16 18 54.0332	0 22 12.136	76 12 30.54	9006 NAINI TAL	8657	7 NG	3225
	9 25	22 29 9.2631	21 12 50.874	63 21 45.31	9004 SAN FERNAN	10610	1 AC	3198
	9 25	22 29 13.2634	21 18 42.879	63 17 30.62	9004 SAN FERNAN	10610	2 AC	3199
	9 26	4 38 58.9033	23 45 20.641	71 28 3.02	9001 ORGAN PASS	11786	3 AM	3157
	9 26	4 39 14.9034	0 8 39.291	69 52 49.43	9001 ORGAN PASS	11786	5 AM	3158
	9 26	16 59 36.9164	19 12 58.422	71 34 32.05	9006 NAINI TAL	8663	5 AC	3226
	9 26	17 27 52.7750	4 54 10.142	6 59 39.17	9003 WOOMERA	16108	3 AM	3209
	9 26	17 28 20.7742	5 7 33.939	3 26 55.79	9003 WOOMERA	16108	10 AM	3993
	9 26	23 9 23.6575	18 54 25.026	49 17 2.74	9004 SAN FERNAN	10627	1 AC	3200
	9 27	17 39 31.7134	1 7 44.544	69 58 15.14	9008 SHIRAZ	14295	7 KA	1884
	9 27	20 44 30.3486	1 28 3.192	43 43 14.82	9004 SAN FERNAN	10644	2 AC	3201
	9 28	21 25 38.3136	C 41 48.123	51 14 38.56	9004 SAN FERNAN	10670	3 EM	3204
	9 29	0 59 18.0981	3 57 58.510	-15 50 48.10	9002 OLIFANTS	14846	4 KA	1887
	9 29	C 59 34.0976	4 8 37.487	-18 16 4.20	9002 OLIFANTS	14846	6 KA	1888
	9 29	22 5 47.8224	21 35 40.982	58 56 22.48	9004 SAN FERNAN	10688	3 AC	3202
	9 29	22 5 51.8223	21 40 44.388	58 45 9.97	9004 SAN FERNAN	10688	4 AC	3203
	9 30	16 36 12.8469	19 49 30.660	69 30 25.01	9006 NAINI TAL	8732	5 AC	3227
	9 30	16 36 28.8475	20 12 39.260	69 53 6.43	9006 NAINI TAL	8732	7 AC	3228
	9 30	17 5 20.2812	5 10 51.581	- 5 56 33.54	9003 WOOMERA	16165	5 BM	3211
	9 30	17 5 28.2811	5 15 1.191	- 6 54 54.51	9003 WOOMERA	16165	7 BM	3212
	9 30	22 46 7.6024	19 16 4.620	47 8 27.28	9004 SAN FERNAN	10708	2 EM	3205

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS.-NO.
1963	5 12	22 48 59.0880	14 25 39.821	43 0 59.22	4	9006 NAINI TAL	7677	6 PL	4410
	5 12	22 49 31.0879	14 30 15.768	43 52 40.63	4	9006 NAINI TAL	7677	8 PL	4411
	5 12	22 57 48.2479	17 4 34.567	60 48 22.12	4	9006 NAINI TAL	7678	4 PL	4412
	5 12	22 58 4.2487	17 15 26.854	61 19 22.47	4	9006 NAINI TAL	7678	6 PL	4413
	5 13	2 16 58.4593	13 34 55.895	27 9 21.05	4	9004 SAN FERNAN	8185	5 PL	4404
	5 13	2 17 14.4598	13 36 18.605	27 26 42.29	4	9004 SAN FERNAN	8185	6 PL	4405
	5 14	19 18 53.1973	12 39 13.515	19 59 17.17	4	9006 NAINI TAL	7700	5 PL	4414
	5 14	19 19 25.1974	12 41 1.353	20 27 55.79	4	9006 NAINI TAL	7700	5 PL	4415
	5 14	23 33 55.0456	14 19 46.548	45 8 46.16	4	9008 SHIRAZ	11936	2 DM	4002
	5 15	6 45 57.3211	13 2 28.159	30 46 18.47	4	9010 JUPITER	9359	9 DM	4011
	5 16	9 10 56.9744	13 34 31.479	34 18 53.47	4	9001 ORGAN PASS	10186	6 LD	5120
	5 16	9 11 28.9669	13 37 31.439	34 56 25.49	4	9001 ORGAN PASS	10186	8 LD	5121
	5 17	4 15 38.9513	15 50 18.350	43 57 33.22	4	9004 SAN FERNAN	8261	4 PL	4406
	5 17	4 15 54.9516	15 55 4.700	44 16 53.63	4	9004 SAN FERNAN	8261	5 PL	4407
	5 17	7 22 24.6931	12 40 53.751	20 1 57.22	4	9001 ORGAN PASS	10202	3 LD	5122
	5 17	7 22 56.6927	12 42 46.315	20 29 26.80	4	9001 ORGAN PASS	10202	5 LD	5123
	5 17	18 32 11.8923	12 24 30.445	17 46 46.89	4	9006 NAINI TAL	7736	4 PL	4416
	5 17	18 32 43.8927	12 26 12.135	18 13 11.20	4	9006 NAINI TAL	7736	6 PL	4417
	5 18	1 29 47.7924	11 47 43.004	3 40 6.38	4	9009 CURACAO	7616	8 DM	4006
	5 18	10 9 12.1529	14 16 49.712	41 23 48.08	4	9001 ORGAN PASS	10228	5 LD	5124
	5 18	10 9 44.1521	14 21 22.334	42 5 48.03	4	9001 ORGAN PASS	10228	7 LD	5125
	5 18	21 23 54.1395	14 9 8.410	44 42 23.58	4	9006 NAINI TAL	7760	3 PL	4418
	5 18	21 24 10.1397	14 11 23.249	45 5 8.51	4	9006 NAINI TAL	7760	4 PL	4419
	5 19	8 26 0.8653	13 18 56.124	32 51 54.95	4	9001 ORGAN PASS	10230	6 LD	5126
	5 19	8 26 16.8641	13 20 17.006	33 8 41.98	4	9001 ORGAN PASS	10230	7 LD	5127
	5 19	12 19 10.1190	13 31 31.148	47 34 7.16	4	9012 MAUI	9476	3 PG	3992
	5 19	12 19 26.1192	13 33 12.710	47 56 46.33	4	9012 MAUI	9476	4 PG	3993
	5 20	10 21 3.8997	12 5 36.072	23 47 12.52	4	9012 MAUI	9482	7 PG	5503
	5 20	10 21 19.8997	12 6 22.803	24 0 34.13	4	9012 MAUI	9482	8 PG	3995
	5 20	11 5 55.8561	15 18 9.295	43 42 12.19	4	9001 ORGAN PASS	10247	3 LD	5128
	5 20	11 6 11.8541	15 21 43.494	44 0 3.03	4	9001 ORGAN PASS	10247	5 LD	5129
	5 20	17 45 8.7968	12 10 2.231	15 33 56.42	4	9006 NAINI TAL	7788	7 PL	4420
	5 20	17 45 24.7969	12 10 51.282	15 46 21.98	4	9006 NAINI TAL	7788	8 PL	4421
	5 20	18 34 3.5058	20 20 21.190	46 19 52.46	4	9006 NAINI TAL	7790	4 SU	4237
	5 20	18 34 19.5066	20 25 20.530	45 51 33.89	4	9006 NAINI TAL	7790	5 SU	4238
	5 20	22 22 3.2295	15 25 30.449	50 8 6.10	4	9006 NAINI TAL	7798	3 SU	4239
	5 20	22 22 35.2310	15 34 15.704	50 54 15.85	4	9006 NAINI TAL	7798	5 SU	4240
	5 21	0 46 54.6246	11 50 8.650	4 40 38.34	4	9009 CURACAO	7667	6 DM	4007
	5 21	9 24 58.6687	13 57 29.718	40 26 45.56	4	9001 ORGAN PASS	10254	5 LT	7707
	5 21	9 25 30.6728	14 1 26.896	41 4 19.79	4	9001 ORGAN PASS	10254	7 LT	7708
	5 21	20 35 44.3839	13 26 50.840	38 53 29.19	4	9006 NAINI TAL	7815	6 SU	4241
	5 22	18 48 2.5616	12 33 0.161	27 2 0.05	4	9006 NAINI TAL	7831	7 SU	4242
	5 23	21 37 58.4893	14 53 26.852	49 2 4.27	4	9006 NAINI TAL	7855	5 SU	4243
	5 23	21 38 30.4901	15 0 15.411	49 43 49.56	4	9006 NAINI TAL	7855	7 SU	4244
	5 23	23 42 32.2970	10 48 52.875	-11 55 56.99	4	9009 CURACAO	7701	5 DM	4008

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	5 23	23 55 15.4935	11 27 3.122	-1 21 40.49	9009 CURACAO	7703	4 DM	4009
	5 24	8 59 54.7009	15 46 28.698	51 51 53.43	9010 JUPITER	9467	4 LT	4801
	5 24	5 1 14.7037	16 13 5.991	53 27 32.39	9010 JUPITER	9467	9 LT	4802
	5 24	19 52 12.7004	13 18 34.650	39 14 1.21	9006 NAINI TAL	7868	8 SU	4245
	5 24	19 52 44.7010	13 21 34.150	39 47 20.78	9006 NAINI TAL	7868	10 SU	4246
	5 24	23 59 33.1254	15 37 1.122	48 37 52.40	9008 SHIRAZ	12076	8 DM	4003
	5 25	7 15 53.2552	13 46 17.168	45 26 56.78	9010 JUPITER	9480	5 LT	4803
	5 25	7 16 41.2560	13 52 11.975	46 23 38.91	9010 JUPITER	9480	8 LT	4804
	5 25	22 33 56.5525	16 4 55.295	46 45 18.07	9006 NAINI TAL	7896	5 SU	4247
	5 25	22 34 28.5540	16 14 56.113	47 6 43.61	9006 NAINI TAL	7896	7 SU	4248
	5 26	8 48 2.3482	11 41 35.774	20 41 53.51	9012 MAUI	9555	6 PG	3996
	5 26	9 38 9.1489	14 26 56.524	43 33 48.10	9001 ORGAN PASS	10293	5 LT	7709
	5 26	9 38 41.1491	14 32 3.542	44 6 13.30	9001 ORGAN PASS	10293	7 LT	5133
	5 26	20 49 44.2205	13 53 24.626	43 40 25.06	9006 NAINI TAL	7910	4 SU	4249
	5 27	7 7 18.8323	11 44 39.968	13 55 5.72	9012 MAUI	9564	9 PG	3997
	5 27	22 15 16.7196	15 1 17.897	48 13 46.96	9008 SHIRAZ	12105	5 DM	4004
	5 27	23 15 35.9576	15 5 24.945	48 33 24.91	9008 SHIRAZ	12105	6 DM	5504
	5 28	14 29 56.7454	17 54 0.118	54 30 59.87	9012 MAUI	9592	6 PG	3998
	5 28	14 20 4.7454	17 58 38.835	54 30 0.54	9012 MAUI	9592	7 PG	3999
	5 28	21 49 19.3620	15 18 2.403	46 57 43.14	9006 NAINI TAL	7942	3 SU	4250
	5 28	21 49 35.3624	15 21 39.414	47 11 3.66	9006 NAINI TAL	7942	4 SU	4251
	5 29	8 52 39.6429	13 56 30.395	42 9 32.82	9001 ORGAN PASS	10350	4 LT	8127
	5 29	8 53 11.6446	14 0 35.862	42 38 58.77	9001 ORGAN PASS	10350	6 LT	7711
	5 29	20 6 34.5296	13 45 2.084	44 29 46.52	9006 NAINI TAL	7961	5 SU	4252
	5 29	20 7 38.5301	13 53 3.005	45 33 41.45	9006 NAINI TAL	7961	9 SU	4253
	5 30	7 9 1.7323	13 1 10.313	36 26 12.97	9001 ORGAN PASS	10372	4 DM	4000
	5 30	7 9 17.7295	13 2 31.232	36 39 56.99	9001 ORGAN PASS	10372	5 DM	4001
	5 31	2 9 28.3882	13 56 35.760	38 27 1.57	9004 SAN FERNAN	8411	3 PL	4408
	5 31	2 9 44.3883	13 58 31.244	38 38 56.28	9004 SAN FERNAN	8411	4 PL	4409
	6 1	8 38 34.7393	18 14 36.617	58 26 10.41	9009 CJRACAO	7766	4 RZ	5962
	6 1	8 38 54.7393	18 26 57.565	58 22 32.45	9009 CJRACAO	7766	9 RZ	5963
	6 2	11 0 42.6727	21 54 21.566	-13 58 6.77	9001 ORGAN PASS	10402	2 NG	5984
	6 2	11 0 48.6721	21 57 22.025	-14 36 8.41	9001 ORGAN PASS	10402	5 NG	5985
	6 3	9 6 39.3818	14 37 9.906	44 2 43.80	9001 ORGAN PASS	10418	3 NG	5986
	6 3	9 7 59.3785	14 51 2.046	44 55 7.97	9001 ORGAN PASS	10418	8 NG	5987
	6 9	3 38 16.5135	14 59 27.143	44 48 24.17	9001 ORGAN PASS	10474	4 NG	5988
	6 9	3 38 48.5171	15 4 14.962	45 0 14.56	9001 ORGAN PASS	10474	6 NG	5989
	6 11	1 23 38.1136	21 22 10.529	9 7 41.84	9004 SAN FERNAN	8489	4 FI	5957
	6 11	1 23 54.1137	21 26 41.941	8 3 24.01	9004 SAN FERNAN	8489	6 FI	5968
	6 11	12 28 51.2895	15 46 22.005	51 8 31.97	9012 MAUI	9723	4 KA	5405
	6 13	10 0 6.8217	21 23 18.282	23 50 27.89	9007 AREQUIPA	8815	4 EM	5945
	6 13	10 0 10.8219	21 26 48.149	23 16 25.09	9007 AREQUIPA	8815	5 EM	5946
	6 14	11 44 30.8918	15 17 39.502	52 22 35.84	9012 MAUI	9785	2 KA	5406
	6 14	11 45 2.8921	15 24 32.467	52 34 1.23	9012 MAUI	9785	4 KA	5407
	6 15	6 9 13.4720	16 40 44.955	51 48 14.64	9012 MAUI	9796	3 TA	5408

DATE Y M D	TIME (A-L) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	6 15	6 9 45.4723	16 46 12.704	51 41 3.15	9012 MAUI	9796	5 TA	5409
6 15	14 19 5.5618	1	17 18 57.901	17 20 16.82	9012 MAUI	9815	4 TA	5410
6 15	14 19 25.9568	1	17 23 30.701	16 17 14.69	9012 MAUI	9815	7 TA	5411
6 16	8 2 34.7633	1	11 45 26.739	41 46 20.02	9012 MAUI	9824	2 TA	5412
6 16	8 3 38.7636	1	11 49 47.646	42 28 19.94	9012 MAUI	9824	6 TA	5413
6 16	9 21 40.1237	1	22 20 58.843	40 32 34.69	9011 VILLA DOLO	9529	7 FI	6664
6 16	9 23 40.2080	1	0 1 22.427	30 11 18.29	9011 VILLA DOLO	9530	4 FI	5582
6 16	9 23 52.2082	1	0 12 25.144	28 41 37.76	9011 VILLA DOLO	9530	7 FI	5583
6 17	3 15 46.5417	1	16 42 41.838	46 51 20.01	9001 ORGAN PASS	10568	4 RD	6352
6 17	3 23 24.2105	1	18 3 7.404	42 29 29.27	9001 ORGAN PASS	10569	3 RD	5991
6 17	11 2 35.5256	1	15 25 26.546	54 6 34.20	9012 MAUI	9849	1 AC	6501
6 17	11 3 7.5256	1	15 32 38.948	54 14 53.22	9012 MAUI	9849	3 AC	5414
6 17	19 8 26.5875	1	23 27 0.443	39 34 11.42	9003 WOOMERA	14704	2 RD	5937
6 18	2 39 18.5705	1	22 56 46.901	33 11 46.61	9002 OLIFANTS	13109	6 FI	5577
6 18	2 39 26.5700	1	23 3 59.604	32 18 18.63	9002 OLIFANTS	13109	8 FI	7193
6 18	10 10 57.4013	1	20 6 29.795	-11 27 37.14	9007 AREQUIPA	8916	10 EM	8207
6 19	7 15 47.5121	1	11 31 23.781	41 2 53.15	9012 MAUI	9880	3 RD	5415
6 19	7 16 19.5119	1	11 33 31.127	41 23 9.43	9012 MAUI	9880	5 RD	5416
6 19	8 29 40.4397	1	17 43 21.503	11 21 25.57	9009 CURACAO	7965	2 AC	5949
6 19	8 29 52.4401	1	17 46 5.233	10 29 33.58	9009 CURACAO	7965	5 AC	5950
6 19	8 42 58.0609	1	0 4 35.581	30 53 36.39	9011 VILLA DOLO	9596	8 EM	5947
6 19	11 56 15.5598	1	15 40 52.416	46 5 54.73	9012 MAUI	9885	2 RD	5417
6 19	11 56 47.5600	1	15 47 16.217	46 0 51.90	9012 MAUI	9885	4 RD	5418
6 19	19 59 53.7268	1	22 37 28.779	24 59 4.54	9003 WOOMERA	14736	4 RD	5938
6 19	20 0 1.7267	1	22 45 13.512	24 4 5.51	9003 WOOMERA	14736	8 RD	5939
6 20	3 31 7.8400	1	21 52 24.191	-0 41 2.73	9002 OLIFANTS	13135	4 FI	5578
6 20	14 37 47.6314	1	19 8 41.114	-40 14 46.92	9012 MAUI	9900	2 RD	5419
6 20	14 37 55.6314	1	19 11 22.901	-41 10 3.30	9012 MAUI	9900	4 RD	5420
6 20	21 42 42.4494	1	19 41 52.698	27 15 17.67	9004 SAN FERNAN	8631	4 FI	6665
6 20	21 43 6.4493	1	19 45 52.637	26 31 37.07	9004 SAN FERNAN	8631	7 FI	5970
6 21	1 57 37.6582	1	22 24 11.101	38 45 21.58	9002 OLIFANTS	13152	5 FI	5579
6 21	9 29 29.7682	1	20 4 40.268	3 14 41.36	9007 AREQUIPA	8974	8 EM	5948
6 21	9 34 7.1511	10	23 8 44.037	12 49 55.16	9011 VILLA DOLO	9638	10 FI	5978
6 22	0 12 12.2820	1	20 54 45.531	1 54 44.20	9004 SAN FERNAN	8650	4 FI	5971
6 22	0 12 28.2821	1	20 58 28.243	1 1 1.72	9004 SAN FERNAN	8650	6 FI	5972
6 22	3 29 22.5193	1	17 24 18.004	45 45 8.75	9001 ORGAN PASS	10680	3 RD	5992
6 22	3 29 38.5170	1	17 27 8.550	45 33 49.55	9001 ORGAN PASS	10680	4 RD	5993
6 22	8 0 0.1499	1	0 12 40.785	11 51 6.64	9007 AREQUIPA	8994	3 AC	5767
6 23	2 50 4.6885	1	21 57 57.754	9 40 56.21	9002 OLIFANTS	13195	5 FI	6508
6 23	2 50 8.6882	1	22 2 6.133	8 57 24.40	9002 OLIFANTS	13195	7 FI	5580
6 23	9 24 39.7757	1	13 28 7.612	51 54 11.38	9012 MAUI	9913	2 RD	5421
6 23	10 7 2.4206	1	18 57 49.688	-25 46 56.45	9001 ORGAN PASS	10716	3 RD	5994
6 23	10 7 10.4200	1	19 0 4.616	-26 27 33.78	9001 ORGAN PASS	10716	5 RD	5995
6 23	10 24 38.9456	1	21 2 48.461	-79 6 56.77	9007 AREQUIPA	9024	9 BZ	8208
6 24	1 20 31.8075	1	1 6 12.254	13 18 34.41	9002 OLIFANTS	13212	8 FI	5581

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	6 24	20 10 58.8831	1					
	6 24	20 11 16.8829	1					
	6 25	3 41 33.5555	1					
	6 25	6 22 58.8738	1					
	6 25	6 23 30.8739	1					
	6 25	7 2 33.6830	1					
	6 25	7 2 41.6839	1					
	6 25	7 8 25.3973	1					
	6 25	10 24 24.9133	1					
	6 25	10 25 28.9135	1					
	6 25	18 40 4.5469	1					
	6 25	18 40 10.5469	1					
6 26	1 53 39.9873	1	18 11 43.789	14 32 49.40	9003 WOOMERA	14832	3 RD	6510
6 26	1 53 55.9871	1	19 49 43.700	-20 38 9.31	9003 WOOMERA	14832	7 RD	5942
6 26	2 10 50.2711	1	0 4 0.982	-2 36 23.89	9002 OLIFANTS	13229	3 RD	8846
6 26	9 24 17.1069	1	18 34 56.271	-14 53 36.92	9001 ORGAN PASS	10739	9 RD	5996
6 26	9 24 25.1056	1	18 36 58.105	-15 30 36.56	9001 ORGAN PASS	10739	11 RD	5997
6 26	9 41 31.0213	1	19 29 33.223	-42 8 59.16	9007 AREQUIPA	9075	5 BZ	5954
6 26	16 53 41.5195	1	18 27 22.144	-13 36 54.65	9005 TOKYO	8504	5 FI	6512
6 26	16 53 57.5198	1	18 31 8.747	-14 44 15.44	9005 TOKYO	8504	7 FI	5977
6 26	20 39 39.7469	1	18 45 37.118	-10 5 10.24	9006 NAINI TAL	8177	3 NG	5958
6 26	20 39 55.7471	1	18 50 5.039	-11 23 16.35	9006 NAINI TAL	8177	5 NG	5959
6 27	3 36 14.1265	1	16 49 51.712	47 17 10.20	9001 ORGAN PASS	10784	1 SC	6000
6 27	3 36 46.1291	1	16 55 29.464	46 57 35.98	9001 ORGAN PASS	10784	3 SC	6001
6 27	7 54 41.9368	1	17 42 50.096	-2 58 35.50	9010 JUPITER	9797	3 AC	5765
6 27	7 54 47.0229	1	20 9 29.215	-11 25 20.65	9001 ORGAN PASS	10797	2 KA	5943
6 27	7 54 57.9370	1	17 46 7.038	-4 4 2.81	9010 JUPITER	9797	5 AC	5766
6 27	7 55 19.0219	1	20 18 57.064	-13 42 1.85	9001 ORGAN PASS	10797	7 KA	5944
6 27	19 30 17.4205	1	22 28 28.037	-0 5 53.68	9003 WOOMERA	14876	9 SE	5953
6 27	19 30 19.4206	1	22 30 55.425	-0 30 12.71	9003 WOOMERA	14876	10 SE	5954
6 28	6 26 9.3782	1	18 4 37.744	21 52 56.82	9009 CURACAO	8088	4 FI	6513
6 28	6 26 17.3786	1	18 6 51.963	21 25 27.56	9009 CURACAO	8088	6 FI	5980
6 29	8 42 27.4469	1	18 29 27.264	-9 14 6.10	9001 ORGAN PASS	10851	8 FI	5574
6 29	9 3 57.6106	1	2 32 25.923	-70 38 3.28	9007 AREQUIPA	9129	4 BZ	5965
6 29	9 4 5.6103	1	2 50 18.416	-70 2 43.40	9007 AREQUIPA	9129	6 BZ	5966
6 29	12 27 46.0743	1	17 39 26.490	6 50 7.58	9012 MAUI	9998	3 EM	5759
6 29	12 27 54.0743	1	17 41 10.500	6 19 32.19	9012 MAUI	9998	5 EM	5750
6 29	19 56 26.1741	1	20 39 29.136	1 3 57.84	9008 SHIRAZ	12594	3 NG	5960
6 29	19 56 35.7996	1	20 41 47.178	0 29 45.52	9008 SHIRAZ	12594	5 NG	5961
6 29	20 22 51.0643	1	23 0 3.586	-59 11 39.63	9003 WOOMERA	14899	8 SE	5955
6 29	20 22 54.9787	1	23 10 58.899	-60 9 8.34	9003 WOOMERA	14899	10 SE	5956
6 30	6 29 53.1975	1	15 4 1.472	57 0 24.99	9012 MAUI	10004	5 NG	6666
6 30	6 30 57.1974	1	15 14 45.429	56 58 30.46	9012 MAUI	10004	9 NG	5762
6 30	7 13 29.5359	1	20 7 27.503	-7 42 57.85	9001 ORGAN PASS	10871	2 FI	5575
6 30	7 13 53.5382	1	20 13 48.349	-9 15 37.41	9001 ORGAN PASS	10871	5 FI	5576

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	6 30	10 57 16.9079	19 9 53.971	15 57 27.99	9012 MAUI	10014	3 NG	5763
6 30	10 57 32.9079	1	19 14 40.847	14 53 23.72	9012 MAUI	10014	7 NG	5764
6 30	18 51 58.7084	1	1 56 30.241	-19 5 39.54	9003 WOODMERA	14906	8 NG	6511
7 1	1 59 50.4464	1	18 15 9.972	-12 10 26.06	9004 SAN FERNAN	8816	3 FI	7808
7 1	5 44 14.1354	1	18 6 6.208	26 14 47.19	9009 CURACAO	8124	2 AC	237
7 1	5 44 22.1355	1	18 8 16.648	25 51 30.50	9009 CURACAO	8124	4 AC	238
7 1	5 45 2.5014	1	19 38 26.911	-1 20 33.34	9010 JUPITER	9843	3 EM	8854
7 1	20 45 53.0115	1	19 38 29.275	-4 38 49.59	9008 SHIRAZ	12649	1 KA	8059
7 2	0 31 5.8532	1	19 42 51.744	-12 7 48.46	9004 SAN FERNAN	8831	3 FI	7809
7 2	11 46 2.7499	1	17 40 18.546	11 0 8.47	9012 MAUI	10032	2 TA	7885
7 2	11 46 22.7501	1	17 44 41.600	9 50 54.42	9012 MAUI	10032	7 KA	7886
7 3	21 33 6.3746	1	17 57 24.051	-1 27 36.06	9008 SHIRAZ	12699	3 KA	8070
7 3	21 33 11.1656	1	17 58 24.425	-1 44 59.72	9008 SHIRAZ	12699	4 KA	8071
7 4	5 1 54.2383	1	19 13 16.436	8 5 15.61	9010 JUPITER	9902	4 EM	8076
7 4	5 2 10.2388	1	19 17 13.325	7 8 0.08	9010 JUPITER	9902	6 EM	8077
7 5	4 2 13.5137	1	18 40 41.766	-45 23 49.42	9002 OLIFANTS	13337	4 TA	9193
7 5	4 2 25.5127	1	18 40 19.651	-47 46 30.14	9002 OLIFANTS	13337	7 TA	8735
7 5	18 36 20.2395	1	19 8 38.824	-3 6 26.54	9006 NAINI TAL	8244	3 TA	8522
7 5	18 36 28.2397	1	19 10 35.381	-3 36 37.83	9006 NAINI TAL	8244	4 TA	235
7 6	2 33 31.8183	1	3 34 30.342	-73 25 44.94	9002 OLIFANTS	13341	8 TA	8736
7 6	2 33 54.1886	1	4 25 30.574	-69 47 16.29	9002 OLIFANTS	13341	11 TA	8737
7 8	3 23 32.6341	1	18 10 35.704	-75 37 8.44	9002 OLIFANTS	13367	12 TA	9734
7 9	5 11 6.7582	1	18 24 34.222	0 33 30.26	9010 JUPITER	9972	4 AC	8744
7 9	5 11 38.7589	1	18 31 34.667	-1 20 19.62	9010 JUPITER	9972	8 AC	8855
7 9	9 25 43.2558	1	20 46 59.983	-69 6 3.38	9011 VILLA DOLO	9778	2 TA	8590
7 9	9 25 47.2558	1	20 55 1.189	-70 20 46.63	9011 VILLA DOLO	9778	4 TA	8591
7 10	3 43 3.3160	1	19 24 16.440	19 54 44.63	9009 CURACAO	8283	2 AC	239
7 10	3 43 15.3160	1	19 27 20.703	19 14 59.02	9009 CURACAO	8283	5 AC	240
7 10	18 41 34.7659	1	19 33 6.695	2 41 25.51	9008 SHIRAZ	12841	2 KA	8072
7 10	18 41 42.7655	1	19 34 39.343	2 18 26.82	9008 SHIRAZ	12841	3 KA	8073
7 11	2 44 33.0447	1	6 53 36.296	-75 49 20.04	9002 OLIFANTS	13393	7 TA	9735
7 11	2 44 37.0453	1	6 53 39.605	-74 59 24.56	9002 OLIFANTS	13393	8 AC	4004
7 11	9 43 15.0146	1	18 23 35.026	12 8 34.12	9012 MAUI	10236	1 KA	7887
7 11	9 43 39.0146	1	18 28 49.586	10 53 3.97	9012 MAUI	10236	7 KA	7888
7 12	4 30 26.7334	1	17 34 19.689	20 2 6.53	9009 CURACAO	8316	2 AC	241
7 12	4 30 46.7338	1	17 38 18.177	19 10 6.93	9009 CURACAO	8316	7 EM	542
7 12	20 2 22.6139	1	19 11 0.625	-65 52 8.03	9003 WOODMERA	15000	3 FI	7690
7 12	20 2 24.6137	1	19 11 37.350	-66 27 8.08	9003 WOODMERA	15000	4 FI	7691
7 12	20 4 13.2627	1	6 15 7.913	-81 6 59.18	9003 WOODMERA	15001	3 FI	7688
7 12	20 4 23.2626	1	6 27 6.715	-78 27 51.61	9003 WOODMERA	15001	8 FI	7689
7 13	3 2 34.7685	1	19 40 33.007	17 1 41.10	9009 CURACAO	8329	3 EM	9605
7 13	3 2 42.7684	1	19 42 23.611	16 36 31.55	9009 CURACAO	8329	5 EM	72
7 13	3 33 16.5153	1	17 50 37.128	-64 50 29.73	9002 OLIFANTS	13424	3 AC	538
7 13	3 33 20.5151	1	17 48 33.131	-65 39 26.16	9002 OLIFANTS	13424	4 AC	539
7 13	3 36 8.9664	1	8 58 9.261	-75 8 54.75	9002 OLIFANTS	13425	3 AC	540

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	7 13	3 36 16.9661	1	8 48 4.987	9002 OLIFANTS	13425	5 AC	541
	7 13	6 24 21.3139	1	17 34 17.002	9012 MAUI	10255	3 KA	8244
	7 13	6 24 53.3141	1	17 38 51.737	9012 MAUI	10255	5 KA	7890
	7 13	21 46 2.3646	1	19 30 33.634	9004 SAN FERNAN	9148	3 FI	7810
	7 13	21 46 50.3635	1	19 38 19.754	9004 SAN FERNAN	9148	6 FI	7811
	7 14	5 18 26.5934	1	19 15 45.633	9001 ORGAN PASS	11065	4 FI	7802
	7 14	5 18 42.5934	1	19 18 46.443	9001 ORGAN PASS	11065	6 FI	7803
	7 14	8 58 6.0569	1	17 48 2.207	9012 MAUI	10294	3 TA	7891
	7 14	8 58 22.0566	1	17 50 57.905	9012 MAUI	10294	5 TA	7892
	7 15	3 30 32.2356	1	17 22 47.038	9001 ORGAN PASS	11076	4 FI	7804
	7 15	3 31 36.2441	1	17 31 31.592	9001 ORGAN PASS	11076	8 FI	7805
	7 15	3 49 31.2612	1	17 50 49.310	9009 CURACAO	8374	3 EM	9606
	7 15	2 49 47.2615	1	17 54 2.043	9009 CURACAO	8374	4 EM	543
	7 15	3 50 10.5108	1	18 56 30.136	9010 JUPITER	10053	5 AC	8080
	7 15	3 50 58.5130	1	19 6 9.625	9010 JUPITER	10053	8 AC	8856
	7 15	14 55 42.0763	1	18 54 32.299	9006 NAINI TAL	8278	4 EM	8523
	7 15	14 56 30.0770	1	19 1 2.851	9006 NAINI TAL	8278	7 EM	8524
	7 15	18 51 22.8051	1	19 0 21.727	9008 SHIRAZ	12977	1 KA	8074
	7 15	18 51 54.8049	1	19 6 33.645	9008 SHIRAZ	12977	5 KA	8075
	7 15	19 23 22.6025	1	5 23 9.719	9003 WOOMERA	15007	5 FI	7687
	7 15	22 37 14.7211	1	19 9 8.027	9004 SAN FERNAN	9215	4 TA	8738
	7 15	22 37 46.7211	1	19 14 57.357	9004 SAN FERNAN	9215	6 TA	8739
	7 16	2 54 25.4472	1	10 46 48.666	9002 OLIFANTS	13451	5 EM	9741
	7 16	2 54 33.4477	1	10 5 36.973	9002 OLIFANTS	13451	7 EM	9742
	7 16	20 56 7.2046	1	18 13 1.063	9004 SAN FERNAN	9238	6 EM	227
	7 16	20 56 23.2044	1	18 15 9.533	9004 SAN FERNAN	9238	7 EM	537
	7 17	8 23 59.4764	1	19 17 53.920	9012 MAUI	10341	4 TA	7893
	7 17	8 24 3.4763	1	19 18 42.084	9012 MAUI	10341	5 TA	7894
	7 18	3 10 16.6789	1	18 27 27.497	9009 CJRACAO	8428	3 TA	9608
	7 18	3 10 40.6793	1	18 32 29.736	9009 CJRACAO	8428	6 TA	9609
	7 18	3 44 7.2008	1	17 33 30.040	9002 OLIFANTS	13479	2 EM	71
	7 18	3 44 11.2019	1	17 30 13.478	9002 OLIFANTS	13479	3 EM	9744
	7 18	21 56 58.2354	1	19 17 31.729	9004 SAN FERNAN	9306	4 EM	229
	7 18	21 57 46.2354	1	19 25 42.409	9004 SAN FERNAN	9306	7 EM	230
	7 20	7 44 55.6896	1	19 43 22.787	9012 MAUI	10363	3 FI	7816
	7 20	7 45 19.6896	1	19 47 54.808	9012 MAUI	10363	6 FI	7817
	7 21	3 4 38.7992	1	13 14 28.870	9002 OLIFANTS	13522	2 EM	9745
	7 21	3 4 46.7998	1	12 29 5.113	9002 OLIFANTS	13522	4 EM	9746
	7 21	6 7 25.1395	1	19 12 23.935	9012 MAUI	10390	4 FI	7818
	7 21	6 7 57.1397	1	19 16 32.438	9012 MAUI	10390	8 FI	7819
	7 21	20 59 6.4418	1	17 1 8.332	9004 SAN FERNAN	9375	6 EM	231
	7 21	20 59 38.4416	1	17 4 59.452	9004 SAN FERNAN	9375	8 EM	232
	7 23	3 20 34.5625	1	17 48 19.276	9009 CJRACAO	8494	4 TA	73
	7 23	3 56 3.5967	1	14 29 11.477	9002 OLIFANTS	13558	2 KA	9747
	7 23	3 56 7.5967	1	13 58 10.594	9002 OLIFANTS	13558	3 KA	9748

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 7 24	9 55 51.3034	1	19 12 43.019	-55 40 53.84	9011 VILLA DOLO	9956	3 TA	8851
7 24	9 55 59.3031	1	19 14 20.094	-57 17 52.29	9011 VILLA DOLO	9956	5 TA	8852
7 24	9 58 45.0473	1	6 13 50.069	-78 10 5.55	9011 VILLA DOLO	9957	3 TA	8586
7 24	9 59 13.0463	1	6 38 35.809	-70 18 46.70	9011 VILLA DOLO	9957	10 TA	8587
7 25	4 7 54.1003	1	19 6 56.351	-16 40 30.24	9001 ORGAN PASS	11193	3 FI	7806
7 25	4 8 10.1002	1	19 9 35.515	-17 18 50.83	9001 ORGAN PASS	11193	5 FI	7807
7 25	7 51 4.3105	1	18 28 17.860	-1 8 29.37	9012 MAUI	10472	3 KA	8081
7 25	7 51 36.3106	1	18 33 50.897	-2 35 55.41	9012 MAUI	10472	7 KA	8082
7 25	8 27 49.3175	1	6 40 41.843	-58 27 7.52	9011 VILLA DOLO	9967	3 KA	8853
7 25	8 28 1.3172	1	6 41 43.863	-55 57 30.68	9011 VILLA DOLO	9967	6 KA	8593
7 25	19 43 11.0915	1	18 3 40.954	-79 26 26.19	9003 WOOMERA	15076	5 FI	7686
7 26	2 38 43.7394	1	17 52 58.172	4 44 42.95	9009 CJRACAD	8540	2 TA	9610
7 26	2 39 15.7391	1	17 58 36.630	3 13 10.24	9009 CJRACAD	8540	6 TA	9611
7 26	3 13 57.8737	1	17 13 17.822	-71 51 1.88	9002 OLIFANTS	13610	1 KA	236
7 26	3 14 5.8735	1	17 4 23.256	-73 16 24.91	9002 OLIFANTS	13610	2 KA	8741
7 26	3 17 49.5791	1	8 0 13.579	-57 44 37.43	9002 OLIFANTS	13611	5 KA	8742
7 26	21 2 32.1087	1	16 1 20.126	20 47 7.21	9004 SAN FERNAN	9501	5 EM	233
7 26	21 3 20.1088	1	16 6 15.887	19 51 31.63	9004 SAN FERNAN	9501	8 EM	234
7 29	2 1 23.9644	1	18 46 9.055	-6 34 40.83	9009 CJRACAD	8578	2 TA	9612
7 29	2 1 31.9643	1	18 47 45.077	-6 59 33.41	9009 CJRACAD	8578	3 TA	9613
7 29	2 34 40.4883	1	10 56 16.412	-80 18 28.02	9002 OLIFANTS	13660	3 KA	9194
7 29	8 59.8739	1	3 26 3.295	-76 0 38.46	9011 VILLA DOLO	10069	2 KA	8594
7 30	19 53 2.5873	1	19 5 24.125	-69 14 54.55	9003 WOOMERA	15156	4 FI	7812
7 30	19 53 10.5872	1	19 8 11.060	-71 11 20.47	9003 WOOMERA	15156	8 FI	7813
7 30	19 55 7.2027	1	6 25 44.671	-75 40 21.09	9003 WOOMERA	15157	3 FI	8242
7 30	19 55 17.2023	1	6 31 37.570	-72 46 1.27	9003 WOOMERA	15157	8 FI	8243
8 1	20 44 22.0236	1	21 18 12.220	-61 35 22.01	9003 WOOMERA	15188	2 TA	2328
8 1	20 44 30.0233	1	21 29 44.484	-63 0 1.42	9003 WOOMERA	15188	6 TA	2329
8 2	19 14 6.7389	1	6 46 38.306	-77 52 17.19	9003 WOOMERA	15205	2 TA	2330
8 3	2 45 3.9743	1	11 31 37.512	-83 39 9.28	9002 OLIFANTS	13756	2 TA	2627
8 3	2 45 11.9741	1	10 36 0.829	-82 50 24.67	9002 OLIFANTS	13756	4 TA	2628
8 4	20 3 45.8111	1	20 46 12.286	-68 3 37.43	9003 WOOMERA	15217	9 TA	2331
8 5	3 38 20.8761	1	6 29 34.847	-58 32 21.07	9002 OLIFANTS	13804	3 TA	2966
8 5	3 38 24.8762	1	6 31 19.449	-57 29 40.74	9002 OLIFANTS	13804	4 TA	2630
8 6	16 21 1.2836	1	17 30 27.504	-7 51 38.71	9008 SHIRAZ	13373	4 BM	3990
8 7	19 24 11.5630	1	2 52 4.154	-81 32 55.05	9003 WOOMERA	15259	5 TA	2332
8 7	19 24 19.5637	1	3 42 29.303	-79 50 41.55	9003 WOOMERA	15259	9 AM	2333
8 7	19 25 48.3142	1	6 3 45.045	-53 25 21.86	9003 WOOMERA	15260	2 AM	2973
8 7	19 25 56.3141	1	6 7 19.011	-51 9 31.16	9003 WOOMERA	15260	6 AM	2335
8 8	2 54 30.1233	1	18 55 30.297	-75 26 58.77	9002 OLIFANTS	13855	1 TA	2631
8 8	2 54 38.1234	1	18 57 54.164	-77 9 40.86	9002 OLIFANTS	13855	3 JW	2459
8 8	2 56 55.8317	1	6 45 53.661	-67 48 53.92	9002 OLIFANTS	13856	5 JW	2632
8 8	2 56 59.8312	1	6 46 37.080	-66 44 45.98	9002 OLIFANTS	13856	6 AC	2633
8 8	5 58 27.5700	1	18 19 58.046	-11 53 8.33	9012 MAUI	10701	3 FI	2828
8 8	5 58 55.5700	1	18 24 30.337	-13 0 54.76	9012 MAUI	10701	7 FI	2829

DATE	TIME (A-I)	RMS	R.A.-(1950.0)	DECL.-(1950.0)	STATION	FRAME NO.	MS	OBS. NO.
Y M D	H M S	MS	H M S	D M S				
1963	0 55	2.6685	19 35 7.235	-31 19 54.69	9009 CURACAO	8715	4 AM	2830
8 9	0 55	42.6689	19 44 53.576	-33 0 57.28	9009 CURACAO	8715	9 AM	2831
8 9	20 13	37.5038	21 20 45.327	-50 12 25.53	9003 WOOMERA	15294	2 AM	2336
8 9	20 13	49.5033	21 34 49.334	-51 35 59.45	9003 WOOMERA	15294	5 AM	2337
8 9	20 16	58.3670	4 15 52.709	-38 16 45.42	9003 WOOMERA	15295	6 AM	2338
8 9	20 17	2.3668	4 21 2.442	-37 10 34.36	9003 WOOMERA	15295	8 AM	2339
8 10	18 44	42.8404	6 4 12.060	-58 45 28.02	9003 WOOMERA	15309	2 JW	2340
8 10	18 44	50.8404	6 6 54.784	-56 27 29.31	9003 WOOMERA	15309	6 JW	2341
8 11	1 46	14.6325	19 4 3.874	-6 56 49.44	9007 AREQUIPA	9729	3 NG	3118
8 11	1 46	38.6320	19 10 47.270	-8 17 16.11	9007 AREQUIPA	9729	6 NG	3119
8 11	2 15	24.1663	7 23 31.657	-77 44 38.25	9002 OLIFANTS	13896	1 AC	2969
8 11	9 50	57.9073	7 21 6.679	-56 6 34.32	9007 AREQUIPA	9740	7 KA	2894
8 11	20 32	15.2996	17 5 14.681	5 49 14.57	9002 OLIFANTS	13909	2 AC	2967
8 11	20 32	31.3003	17 7 22.562	5 15 43.52	9002 OLIFANTS	13909	3 AC	2935
8 12	19 4	43.0868	18 55 4.020	3 14 49.13	9002 OLIFANTS	13934	4 AC	2968
8 12	19 4	59.0825	18 59 12.263	2 32 29.51	9002 OLIFANTS	13934	6 AC	2637
8 13	3 5	5.1149	21 13 54.000	-67 40 39.40	9002 OLIFANTS	13946	2 KA	2970
8 13	3 5	12.1148	21 28 19.791	-68 56 8.45	9002 OLIFANTS	13946	4 KA	2638
8 13	17 37	37.9770	20 40 17.079	-1 12 49.39	9002 OLIFANTS	13952	2 NG	2643
8 13	17 37	53.9776	20 44 25.632	-1 47 28.56	9002 OLIFANTS	13952	4 NG	2644
8 14	1 7	53.9897	19 10 26.639	6 33 18.83	9011 VILLA DOLO	10256	2 JV	2803
8 14	1 8	1.9898	19 12 32.261	6 15 8.47	9011 VILLA DOLO	10256	3 JV	2804
8 14	19 55	6.5352	17 53 27.647	-4 36 26.54	9002 OLIFANTS	13979	3 NG	2645
8 14	19 55	14.5349	17 55 11.531	-5 0 54.06	9002 OLIFANTS	13979	4 NG	2646
8 14	20 27	23.9300	2 56 44.186	-10 28 42.85	9003 WOOMERA	15365	3 JW	2342
8 14	20 27	33.9297	3 9 8.998	-8 32 5.79	9003 WOOMERA	15365	8 JW	2343
8 15	10 56	10.1593	20 3 41.223	1 38 10.02	9003 WOOMERA	15370	5 FI	2789
8 15	10 56	26.1591	20 8 13.995	1 1 32.00	9003 WOOMERA	15370	9 FI	2790
8 15	18 26	54.9403	19 55 10.527	-6 8 19.73	9002 OLIFANTS	13993	4 FI	2647
8 15	18 27	2.9403	19 57 40.846	-6 30 21.62	9002 OLIFANTS	13993	5 FI	2648
8 15	18 55	4.1489	4 42 21.451	-52 44 51.34	9003 WOOMERA	15378	6 FI	2791
8 15	18 55	10.1488	4 49 14.249	-50 46 56.38	9003 WOOMERA	15378	9 FI	5005
8 16	2 25	33.0942	2 28 4.441	-79 59 16.74	9002 OLIFANTS	14000	4 FI	2649
8 16	2 28	1.9767	6 9 59.087	-38 42 6.39	9002 OLIFANTS	14001	7 FI	2650
8 16	23 59	26.0229	15 51 18.774	10 9 41.99	9009 CURACAO	8785	5 TA	2832
8 17	0 0	30.0229	15 56 38.785	8 43 31.22	9009 CURACAO	8785	9 TA	2833
8 17	0 20	20.3481	18 18 55.315	-30 22 37.23	9009 CURACAO	8786	6 AM	2834
8 17	0 20	44.3480	18 23 28.124	-31 21 47.80	9009 CURACAO	8786	9 JW	2835
8 17	0 29	14.1480	19 51 37.283	0 3 58.73	9011 VILLA DOLO	10294	2 RD	2805
8 17	0 29	30.1481	19 56 18.850	-0 33 28.13	9011 VILLA DOLO	10294	4 RD	2806
8 17	0 30	0.2755	20 56 56.315	-21 55 15.46	9007 AREQUIPA	9834	4 NG	3120
8 17	0 30	32.2747	21 7 35.736	-23 6 22.62	9007 AREQUIPA	9834	8 NG	3121
8 17	8 28	25.1819	3 57 14.742	-43 4 5.13	9011 VILLA DOLO	10297	2 RD	2807
8 17	11 45	37.5095	19 4 23.090	-3 12 36.34	9003 WOOMERA	15400	4 FI	2792
8 17	11 45	53.5094	19 9 10.677	-3 56 47.99	9003 WOOMERA	15400	8 FI	2793

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1963 8 17	19 16 59.8625	1	18 52 18.765	-14 42 56.73	9002 OLIFANTS	14025	4 BZ	2651
8 17	19 17 7.8624	1	18 54 56.021	-15 11 59.57	9002 OLIFANTS	14025	5 BZ	2652
8 17	19 44 47.5673	1	23 59 12.430	-38 7 12.75	9003 WOOMERA	15411	9 JW	2794
8 17	19 47 33.8573	1	4 16 13.230	-5 7 4.01	9003 WOOMERA	15412	8 JW	2795
8 17	19 47 35.8066	1	4 17 57.124	-4 45 22.14	9003 WOOMERA	15412	9 JW	3992
8 18	2 47 35.9949	1	17 13 45.186	-4 24 50.48	9011 VILLA DOLO	10310	3 RD	2808
8 18	2 48 7.9948	1	17 18 41.663	-5 46 41.52	9011 VILLA DOLO	10310	5 RD	2809
8 18	3 20 25.1944	1	5 16 21.762	-1 14 46.05	9002 OLIFANTS	14038	6 BZ	2653
8 18	10 18 54.7964	1	21 3 8.225	-6 54 56.83	9003 WOOMERA	15415	3 AC	3699
8 18	17 49 1.8959	1	20 52 55.324	-13 40 48.51	9002 OLIFANTS	14044	4 BZ	2654
8 18	17 49 41.8958	1	21 6 28.985	-15 9 18.76	9002 OLIFANTS	14044	9 BZ	2655
8 18	18 15 54.9513	1	5 48 29.499	-27 55 38.04	9003 WOOMERA	15421	3 AC	2797
8 18	18 16 2.9511	1	5 50 44.764	-26 15 7.08	9003 WOOMERA	15421	7 AC	2798
8 19	1 19 50.6616	1	19 9 21.643	-8 19 36.74	9011 VILLA DOLO	10331	2 RD	2810
8 19	1 19 58.6616	1	19 12 1.463	-8 43 46.94	9011 VILLA DOLO	10331	3 RD	2811
8 19	1 46 48.8704	1	6 12 11.066	-46 42 7.81	9002 OLIFANTS	14053	8 BZ	2656
8 19	9 20 19.1757	1	6 17 35.707	-56 19 17.90	9007 AREQUIPA	9855	4 AC	3122
8 19	12 36 19.0270	1	18 9 3.969	-12 1 9.70	9003 WOOMERA	15437	2 AC	2799
8 19	20 5 58.9785	1	17 23 12.329	-16 55 58.30	9002 OLIFANTS	14070	7 BZ	2657
8 19	20 6 6.9787	1	17 24 44.040	-17 24 59.19	9002 OLIFANTS	14070	8 BZ	2658
8 19	23 39 10.1426	1	18 25 49.266	-29 9 17.48	9009 CURACAO	8819	3 JW	2836
8 19	23 39 50.1427	1	18 33 0.748	-30 35 46.78	9009 CURACAO	8819	8 AC	2837
8 19	23 41 59.8628	1	18 58 19.365	-35 11 51.56	9009 CURACAO	8820	2 AC	2838
8 19	23 42 15.8629	1	19 1 40.073	-35 45 9.67	9009 CURACAO	8820	4 AC	2839
8 20	7 49 33.2462	1	5 33 6.169	-17 1 21.72	9011 VILLA DOLO	10342	4 AM	3701
8 20	7 49 37.2462	1	5 34 31.911	-16 16 55.53	9011 VILLA DOLO	10342	5 AM	2880
8 20	11 7 53.1184	1	20 14 13.903	-12 21 33.09	9003 WOOMERA	15452	3 AC	2800
8 20	11 8 13.1183	1	20 21 47.711	-13 14 6.99	9003 WOOMERA	15452	8 AC	2801
8 20	18 39 9.2904	1	20 14 29.869	-24 42 12.93	9002 OLIFANTS	14088	9 SC	2659
8 21	2 9 17.9924	1	17 52 20.138	-13 0 5.91	9011 VILLA DOLO	10356	7 BM	2881
8 21	2 9 33.9927	1	17 56 13.457	-13 53 38.19	9011 VILLA DOLO	10356	8 BM	2882
8 21	12 25 26.7699	1	17 3 0.120	-13 28 38.04	9003 WOOMERA	15462	10 AM	2641
8 21	12 25 42.7698	1	17 5 19.570	-14 16 41.11	9003 WOOMERA	15462	12 AM	2642
8 22	0 42 3.8559	1	21 32 59.411	-38 30 28.76	9007 AREQUIPA	9864	4 AC	3123
8 22	0 42 27.8551	1	21 44 1.479	-39 5 24.08	9007 AREQUIPA	9864	7 AC	3124
8 22	8 38 59.1180	1	6 34 39.500	-63 50 53.43	9007 AREQUIPA	9869	3 AC	3125
8 22	8 39 11.1180	1	6 36 36.673	-61 0 6.67	9007 AREQUIPA	9869	6 AC	3126
8 22	11 58 12.5983	1	19 20 7.612	-22 33 37.10	9003 WOOMERA	15478	5 KA	2639
8 22	11 58 20.5982	1	19 23 33.283	-23 3 22.81	9003 WOOMERA	15478	7 KA	2640
8 22	19 28 13.2967	1	18 29 39.982	-30 39 48.23	9002 OLIFANTS	14127	6 SC	2650
8 22	19 28 37.2964	1	18 38 46.220	-32 28 16.32	9002 OLIFANTS	14127	9 SC	2661
8 22	19 54 42.2288	1	23 33 53.016	-12 9 50.59	9003 WOOMERA	15488	3 NG	5006
8 22	19 54 52.2287	1	23 34 33.816	-10 56 1.08	9003 WOOMERA	15488	8 NG	2802
8 23	3 0 3.2600	1	16 57 20.006	-45 34 35.52	9007 AREQUIPA	9883	3 AM	2906
8 23	3 25 51.5831	1	22 52 15.761	-22 7 58.50	9002 OLIFANTS	14138	6 SC	2610

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1963	8 23	3 25 55.5833	22 55 48.025	-21 49 51.25	9002 OLIFANTS	14138	7 SC	2611
	8 23	3 29 22.7292	2 40 51.937	9 28 30.86	9002 OLIFANTS	14139	4 SC	2612
	8 23	3 30 5.9309	3 22 37.171	15 56 55.23	9002 OLIFANTS	14139	13 SC	2613
	8 23	10 30 3.3309	21 21 48.060	-18 34 53.53	9003 WOOMERA	15497	1 FI	2456
	8 23	10 30 11.1622	21 24 52.554	-18 48 44.62	9003 WOOMERA	15497	3 FI	1846
	8 23	18 0 57.4504	21 27 55.097	-29 9 38.14	9002 OLIFANTS	14145	5 EM	2971
	8 23	18 1 21.4504	21 38 55.809	-29 49 33.19	9002 OLIFANTS	14145	8 EM	2615
	8 24	1 30 52.8638	19 52 18.366	-50 25 53.32	9007 AREQUIPA	9893	5 JW	2903
	8 24	1 31 8.8634	20 1 45.999	-51 17 58.38	9007 AREQUIPA	9893	7 JW	2904
	8 24	1 31 56.3476	19 18 14.673	-26 43 25.98	9011 VILLA DOLO	10378	2 BM	2883
	8 24	1 32 4.3475	19 21 57.099	-27 14 49.56	9011 VILLA DOLO	10378	3 BM	2884
	8 24	1 57 45.5575	5 12 39.986	-25 5 54.00	9002 OLIFANTS	14155	3 EM	2616
	8 24	1 58 1.5585	5 21 46.642	-20 55 52.95	9002 OLIFANTS	14155	7 VG	2617
	8 24	9 28 2.5646	22 48 28.334	-62 54 41.33	9007 AREQUIPA	9899	3 JW	2902
	8 24	9 30 31.4532	1 58 46.863	19 40 38.89	9011 VILLA DOLO	10383	4 BM	2885
	8 24	20 18 37.5864	17 15 42.603	-34 49 6.00	9002 OLIFANTS	14168	8 VG	2618
	8 24	23 45 28.8007	17 15 50.798	-29 34 1.81	9009 CURACAO	8888	7 AC	2840
	8 24	23 46 0.8004	17 20 22.811	-30 44 13.86	9009 CURACAO	8888	11 AC	2841
	8 25	0 3 33.9413	21 25 35.136	-21 32 36.38	9011 VILLA DOLO	10387	3 BM	2886
	8 25	0 3 57.9406	21 35 54.501	-22 11 30.20	9011 VILLA DOLO	10387	6 BM	2887
	8 25	11 19 55.2294	20 45 33.048	-29 38 22.39	9003 WOOMERA	15529	7 FI	1847
	8 25	11 19 59.2293	20 47 41.741	-29 48 17.95	9003 WOOMERA	15529	8 FI	1848
	8 25	18 49 17.8424	19 41 21.518	-37 55 2.10	9002 OLIFANTS	14180	4 VG	2619
	8 25	18 49 25.8431	19 45 32.982	-38 23 53.27	9002 OLIFANTS	14180	5 NG	2620
	8 25	19 15 51.6634	1 41 20.390	0 11 35.20	9003 WOOMERA	15538	7 FI	1849
	8 26	2 20 7.4656	17 27 25.697	-23 52 15.37	9011 VILLA DOLO	10411	3 EM	2888
	8 26	2 20 23.4654	17 31 0.660	-24 53 54.19	9011 VILLA DOLO	10411	5 EM	2889
	8 26	2 21 56.7534	18 19 28.809	-61 22 1.63	9007 AREQUIPA	9916	7 EM	2901
	8 26	2 46 29.6231	0 5 52.327	-21 34 15.27	9002 OLIFANTS	14191	6 NG	2621
	8 26	2 49 20.0051	3 41 5.774	12 3 58.41	9002 OLIFANTS	14192	3 VG	2623
	8 26	2 49 28.0054	3 48 19.564	13 15 18.71	9002 OLIFANTS	14192	5 SE	2624
	8 27	8 48 54.6434	1 4 20.844	8 49 49.43	9011 VILLA DOLO	10428	1 EM	2890
	8 27	8 51 1.8583	3 15 21.334	25 48 44.22	9011 VILLA DOLO	10429	6 EM	2891
	8 27	12 9 37.0369	19 17 18.023	-39 14 13.77	9003 WOOMERA	15555	6 FI	1850
	8 27	12 9 45.0368	19 21 50.113	-39 49 19.59	9003 WOOMERA	15555	8 FI	1851
	8 27	19 40 8.0987	18 23 47.137	-48 23 1.75	9002 OLIFANTS	14223	5 SE	2625
	8 27	19 40 24.0985	18 31 46.244	-49 47 47.38	9002 OLIFANTS	14223	7 SE	2626
	8 27	20 5 19.0016	23 42 48.696	8 27 57.38	9003 WOOMERA	15562	6 FI	1852
	8 27	20 5 27.0015	23 48 45.473	9 31 4.83	9003 WOOMERA	15562	8 FI	1853
	8 27	20 7 15.5883	1 14 39.580	23 54 6.06	9003 WOOMERA	15563	2 FI	1854
	8 27	20 7 31.5883	1 27 36.766	25 49 9.68	9003 WOOMERA	15563	6 FI	1855
	8 28	18 12 54.8980	22 28 19.703	-43 13 20.71	9002 OLIFANTS	14234	6 AM	3127
	8 28	18 13 2.8983	22 33 8.499	-43 13 48.61	9002 OLIFANTS	14234	7 AM	3703
	8 28	18 37 23.5564	4 16 3.012	16 5 31.49	9003 WOOMERA	15571	6 TA	2844
	8 29	1 43 43.6371	21 19 32.422	-68 7 0.17	9007 AREQUIPA	9941	5 EM	2900

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1963 9 9	11 53 22.2643	1	22 46 22.828	-63 52 46.97	4	9003 WOOMERA	15761	2 BM	4295
9 9	11 53 42.2637	1	23 11 37.540	-63 5 44.85	4	9003 WOOMERA	15761	7 BM	4296
9 9	19 23 56.9997	1	21 56 2.547	-75 19 56.73	4	9002 OLIFANTS	14434	5 JW	5773
9 9	19 24 12.9996	1	22 28 51.358	-75 9 36.05	4	9002 OLIFANTS	14434	7 JW	5774
9 11	9 26 26.5757	1	5 18 18.872	-36 2 29.40	4	9010 JJPIITER	11026	5 AC	3881
9 11	9 26 34.5769	1	5 21 52.240	-35 7 7.94	4	9010 JJPIITER	11026	6 AC	3882
9 11	12 42 50.7331	1	19 21 17.027	-68 27 9.15	4	9003 WOOMERA	15796	3 SE	4845
9 11	12 43 18.7323	1	20 1 15.335	-70 31 15.30	4	9003 WOOMERA	15796	10 SE	4846
9 12	11 48 40.1663	1	6 7 10.646	-10 21 13.61	4	9001 ORGAN PASS	11612	4 AM	4496
9 12	11 48 44.1662	1	6 8 39.217	-9 57 1.24	4	9001 ORGAN PASS	11612	5 AM	4497
9 12	18 45 32.8821	1	1 3 43.027	-62 9 31.21	4	9002 OLIFANTS	14486	4 JW	4686
9 13	9 33 49.0132	1	18 53 47.408	-38 37 8.92	4	9003 WOOMERA	15821	5 SE	4847
9 13	9 34 13.0120	1	19 3 6.680	-39 27 45.03	4	9003 WOOMERA	15821	8 SE	4848
9 13	9 38 8.7695	1	20 56 22.167	-45 4 5.84	4	9003 WOOMERA	15822	3 SE	4849
9 13	9 38 28.7695	1	21 7 22.222	-45 12 32.18	4	9003 WOOMERA	15822	8 SE	4850
9 13	12 31 52.7938	1	17 20 35.358	-53 10 17.96	4	9003 WOOMERA	15834	4 FI	3136
9 13	12 32 0.7939	1	17 23 8.749	-53 50 8.42	4	9003 WOOMERA	15834	6 FI	3137
9 13	12 56 53.5839	1	4 18 37.238	-51 0 17.09	4	9012 MAUI	11263	7 FI	2975
9 13	14 2 29.1989	1	6 48 44.257	-6 13 12.68	4	9012 MAUI	11265	3 FI	2578
9 13	14 2 41.1990	1	6 52 22.172	-4 53 28.41	4	9012 MAUI	11265	6 FI	2579
9 13	17 0 41.0023	1	17 17 31.449	-36 53 46.35	4	9002 OLIFANTS	14495	6 JW	4687
9 14	1 18 57.7632	1	4 28 42.033	-21 46 20.71	4	9008 SHIRAZ	14090	2 KA	4299
9 14	1 19 13.7633	1	4 36 46.327	-19 55 34.02	4	9008 SHIRAZ	14090	6 KA	6106
9 14	8 46 13.2462	1	5 40 46.463	-34 24 38.00	4	9010 JJPIITER	11060	4 AC	3883
9 14	8 50 13.7374	1	6 33 28.046	25 51 51.21	4	9009 CJRACAD	9027	2 TA	4316
9 14	8 50 17.7375	1	6 35 15.964	26 10 29.16	4	9009 CJRACAD	9027	3 TA	4317
9 14	8 50 19.8781	1	7 0 16.778	-7 14 46.06	4	9010 JUPITER	11061	1 AC	3884
9 14	12 4 16.0222	1	23 39 26.851	-66 40 43.13	4	9003 WOOMERA	15849	7 FI	3138
9 14	12 4 20.0221	1	23 44 55.366	-66 24 6.07	4	9003 WOOMERA	15849	8 FI	3139
9 14	19 34 38.4925	1	22 19 9.824	-78 40 33.57	4	9002 OLIFANTS	14520	7 KA	2908
9 14	19 34 46.4930	1	22 40 21.373	-78 30 11.26	4	9002 OLIFANTS	14520	8 KA	5023
9 14	23 9 8.4360	1	19 38 31.501	-44 27 7.44	4	9011 VILLA DOLO	10536	5 BM	3954
9 14	23 9 16.4357	1	19 42 29.721	-44 40 24.52	4	9011 VILLA DOLO	10536	6 BM	3955
9 14	23 52 27.1272	1	7 11 24.454	-5 7 56.40	4	9008 SHIRAZ	14103	1 KA	4001
9 15	3 5 25.1636	1	17 32 15.354	-52 5 26.75	4	9011 VILLA DOLO	10547	7 BM	3952
9 15	3 5 33.1636	1	17 35 5.975	-52 43 27.21	4	9011 VILLA DOLO	10547	8 BM	3953
9 15	11 3 57.4591	1	4 36 4.664	-38 6 6.58	4	9001 ORGAN PASS	11643	3 AM	4498
9 15	11 4 13.4603	1	4 43 44.524	-36 31 10.83	4	9001 ORGAN PASS	11643	5 AM	4499
9 15	14 56 17.7474	1	7 16 19.725	27 18 55.93	4	9012 MAUI	11303	2 FI	2580
9 15	14 56 29.7475	1	7 20 44.640	27 56 44.19	4	9012 MAUI	11303	5 FI	2581
9 16	1 37 0.7677	1	22 37 26.723	-68 16 21.46	4	9011 VILLA DOLO	10561	6 BM	5015
9 16	1 37 4.7674	1	22 43 57.166	-68 7 16.91	4	9011 VILLA DOLO	10561	7 BM	3951
9 16	12 53 27.2370	1	19 19 4.916	-69 3 12.49	4	9003 WOOMERA	15898	7 FI	3140
9 16	12 53 31.2368	1	19 24 23.491	-69 22 4.89	4	9003 WOOMERA	15898	8 FI	3141
9 17	23 19 58.7907	1	8 7 47.314	28 35 58.51	4	9006 MAINI TAL	8543	4 TA	3875

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	CRS. NO.
1963 8 29	2 8 11.0577	1	3 40 5.273	1 59 14.34	4	9002 OLIFANTS	14244	8 AM	3704
8 29	9 38 34.2664	1	23 8 19.951	-33 58 50.50	4	9007 AREQUIPA	9947	2 EM	3702
8 29	9 38 50.2660	1	23 24 13.450	-32 49 31.79	4	9007 AREQUIPA	9947	6 EM	2899
8 29	9 42 58.5671	1	4 1 29.973	12 49 45.17	4	9007 AREQUIPA	9948	10 TA	6102
8 29	9 43 0.5670	1	4 3 10.407	13 9 30.40	4	9007 AREQUIPA	9948	11 JW	2897
8 30	8 10 37.3093	1	6 3 3.579	-28 10 14.75	4	9007 AREQUIPA	9958	6 BM	6101
8 30	8 10 41.3093	1	6 4 16.581	-27 13 12.22	4	9007 AREQUIPA	9958	7 TA	2895
8 30	11 31 6.9543	1	21 8 40.363	-44 36 13.35	4	9003 WOOMERA	15596	3 KA	2842
8 30	11 31 38.9534	1	21 32 55.839	-45 25 6.98	4	9003 WOOMERA	15596	11 TA	2843
8 30	19 2 2.9358	1	20 54 12.673	-57 53 4.04	4	9002 OLIFANTS	14267	4 KA	3130
8 30	19 2 14.9358	1	21 5 41.611	-58 17 6.96	4	9002 OLIFANTS	14267	7 KA	3131
8 30	19 26 31.0804	1	1 10 49.743	22 38 5.04	4	9003 WOOMERA	15603	5 KA	2892
8 30	19 26 41.0804	1	1 20 9.615	23 59 54.16	4	9003 WOOMERA	15603	10 KA	2893
8 31	2 57 16.7578	1	0 11 22.338	8 57 47.80	4	9002 OLIFANTS	14281	4 KA	3132
8 31	2 57 24.7577	1	0 18 21.893	10 16 57.09	4	9002 OLIFANTS	14281	6 KA	3133
8 31	2 59 21.7607	1	2 3 54.122	28 7 7.19	4	9002 OLIFANTS	14282	3 TA	3134
8 31	2 59 37.7611	1	2 17 53.186	30 2 24.01	4	9002 OLIFANTS	14282	7 TA	3135
9 1	9 0 3.6528	1	1 11 28.227	29 27 55.97	4	9011 VILLA DOLO	10481	6 BM	3956
9 1	9 0 7.6528	1	1 14 41.612	29 55 21.62	4	9011 VILLA DOLO	10481	7 BM	3957
9 1	9 2 23.2206	1	4 37 49.062	9 7 11.89	4	9007 AREQUIPA	9987	5 EM	4680
9 1	9 2 31.2210	1	4 43 38.128	10 29 19.55	4	9007 AREQUIPA	9987	7 KA	6107
9 1	12 21 7.1679	1	19 27 50.351	-54 26 28.79	4	9003 WOOMERA	15623	3 TA	4279
9 1	12 21 15.1677	1	19 34 28.004	-55 2 59.32	4	9003 WOOMERA	15623	5 TA	4280
9 2	15 9 30.9191	1	5 39 31.653	-42 46 43.56	4	9012 MAUI	11117	3 FI	2575
9 2	15 9 34.9193	1	5 41 12.286	-42 18 30.97	4	9012 MAUI	11117	4 FI	2576
9 2	18 48 6.5713	1	3 20 52.533	35 5 38.64	4	9003 WOOMERA	15643	5 TA	5019
9 3	2 19 9.1724	1	2 44 20.514	30 25 15.40	4	9002 OLIFANTS	14328	7 TA	4314
9 3	9 53 13.4810	1	2 23 38.131	31 48 3.33	4	9007 AREQUIPA	10014	4 KA	6108
9 3	9 53 25.4807	1	2 33 15.575	33 18 3.76	4	9007 AREQUIPA	10014	7 KA	4683
9 3	13 10 30.7132	1	17 27 19.015	-48 42 12.58	4	9003 WOOMERA	15658	5 NG	5020
9 3	13 10 34.7133	1	17 28 36.641	-49 4 25.40	4	9003 WOOMERA	15658	6 NG	4283
9 4	11 41 43.0055	1	21 14 15.260	-56 9 9.57	4	9003 WOOMERA	15673	5 NG	5021
9 4	11 41 59.0050	1	21 30 21.109	-56 26 22.62	4	9003 WOOMERA	15673	9 NG	5011
9 6	12 31 51.7925	1	19 11 50.878	-62 37 44.76	4	9003 WOOMERA	15702	2 AM	4286
9 6	12 32 7.7921	1	19 28 12.481	-63 55 33.97	4	9003 WOOMERA	15702	6 AM	4287
9 7	11 2 26.9029	1	22 42 44.370	-51 38 42.02	4	9003 WOOMERA	15719	2 AM	4288
9 7	11 2 42.5772	1	22 55 1.409	-51 14 56.23	4	9003 WOOMERA	15719	6 AM	4289
9 8	9 30 7.1534	1	21 53 36.804	-36 28 38.70	4	9003 WOOMERA	15728	2 AC	4290
9 8	9 30 15.1534	1	21 57 15.563	-36 28 29.90	4	9003 WOOMERA	15728	4 AC	4291
9 8	13 21 32.1535	1	17 23 2.078	-53 57 13.89	4	9003 WOOMERA	15739	1 AC	4292
9 8	13 21 48.1532	1	17 28 40.900	-55 28 1.97	4	9003 WOOMERA	15739	3 AC	4293
9 8	16 53 53.0121	1	18 46 18.878	-36 55 8.08	4	9002 OLIFANTS	14410	3 TA	4315
9 9	5 0 23.2579	1	7 13 53.832	- 4 49 19.60	4	9004 SAN FERVAN	10398	3 NG	4837
9 9	8 32 46.4731	1	3 59 6.902	35 26 43.88	4	9007 AREQUIPA	10052	5 NG	5772
9 9	11 40 25.1995	1	16 16 7.118	-24 26 47.86	4	9003 WOOMERA	15760	2 AC	4294

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	9 24	12 50 51.5120	6 27 20.085	- 1 44 58.61	4	9012 MAJI	11371	2 FI	5014
	9 24	12 50 59.5119	6 30 25.422	- 0 44 20.72	4	9012 MAJI	11371	6 FI	2590
	9 24	12 52 50.7268	7 8 39.995	10 42 0.00	4	9012 MAJI	11372	4 JW	3879
	9 24	12 52 54.7268	7 9 54.265	11 1 48.34	4	9012 MAJI	11372	5 JW	3880
	9 25	7 37 3.8596	5 11 42.923	28 30 24.42	4	9009 CJRACAU	9091	7 AC	4695
	9 25	7 37 7.8595	5 14 52.585	28 59 36.87	4	9009 CJRACAD	9091	9 KA	6109
	9 25	15 15 41.3370	5 15 8.234	55 25 37.98	4	9012 MAJI	11389	6 KA	3965
	9 25	15 15 49.3370	5 21 43.729	55 47 17.14	4	9012 MAJI	11389	8 KA	3966
	9 26	9 55 14.6776	5 23 17.381	-18 1 5.02	4	9001 ORGAN PASS	11791	3 EM	4504
	9 26	9 55 22.6778	5 27 16.326	-16 59 36.05	4	9001 ORGAN PASS	11791	5 EM	4505
	9 26	10 0 12.6546	7 23 17.280	11 40 7.50	4	9001 ORGAN PASS	11792	4 EM	4506
	9 26	10 0 20.6573	7 25 49.173	12 10 23.73	4	9001 ORGAN PASS	11792	5 EM	4507
	9 26	13 13 32.5414	18 49 41.640	-55 3 40.72	4	9003 WOOMERA	16102	3 JW	5775
	9 26	13 13 48.5410	19 1 18.956	-55 54 38.43	4	9003 WOOMERA	16102	7 AC	4689
	9 26	21 10 28.6329	5 45 26.121	-15 19 22.17	4	9006 NAINI TAL	8664	1 KA	2913
	9 26	21 10 48.6330	5 54 35.056	-12 40 53.93	4	9006 NAINI TAL	8664	6 KA	2914
	9 26	21 14 16.0975	7 13 7.135	8 41 7.30	4	9006 NAINI TAL	8665	4 TA	4305
	9 26	21 14 40.0982	7 20 36.814	10 24 14.71	4	9006 NAINI TAL	8665	7 TA	4306
	9 27	8 27 6.8103	2 4 4.298	43 17 55.51	4	9009 CJRACAD	9114	3 KA	4697
	9 27	8 27 12.8107	2 8 59.247	44 14 50.39	4	9009 CJRACAD	9114	6 KA	6110
	9 27	12 11 57.9872	7 2 1.359	6 10 2.32	4	9012 MAJI	11398	8 KA	3964
	9 27	19 15 53.5504	0 12 59.008	-70 49 34.40	4	9002 OLIFANTS	14811	7 NG	4835
	9 27	19 16 9.5506	0 34 16.984	-69 17 54.68	4	9002 OLIFANTS	14811	9 NG	5771
	9 27	23 32 52.5023	3 12 53.625	25 43 29.95	4	9006 NAINI TAL	8685	4 TA	4307
	9 27	23 33 8.5026	3 22 29.831	27 43 9.07	4	9006 NAINI TAL	8685	8 JW	5022
	9 28	3 13 9.1107	4 47 31.716	-24 22 28.04	4	9004 SAN FERNAN	10653	3 AC	4840
	9 28	3 13 25.1110	4 55 49.576	-22 31 51.29	4	9004 SAN FERNAN	10653	7 AC	4841
	9 28	3 19 16.7523	7 22 38.404	11 0 8.10	4	9004 SAN FERNAN	10655	4 AC	4842
	9 28	14 37 11.5184	7 33 17.034	55 55 3.20	4	9012 MAJI	11415	4 KA	3962
	9 28	14 37 19.5184	7 38 3.929	55 51 19.61	4	9012 MAJI	11415	5 KA	3963
	9 29	1 18 26.7446	0 8 31.078	-55 56 46.53	4	9011 VILLA DOLO	10728	2 KA	5770
	9 29	1 18 34.7444	0 16 9.505	-55 3 25.21	4	9011 VILLA DOLO	10728	4 KA	3888
	9 29	9 16 5.6937	6 10 0.874	- 9 34 28.14	4	9001 ORGAN PASS	11840	5 EM	4508
	9 29	9 16 13.6939	6 13 15.408	- 8 40 23.02	4	9001 ORGAN PASS	11840	7 EM	4509
	9 29	12 34 30.6309	21 7 0.275	-61 47 29.14	4	9003 WOOMERA	16126	3 AC	4690
	9 29	12 34 50.6303	21 34 59.865	-61 35 4.04	4	9003 WOOMERA	16126	8 AC	4691
	9 29	20 32 12.1463	6 43 54.100	- 1 24 10.54	4	9006 NAINI TAL	8711	3 JW	4308
	9 29	20 32 28.1468	6 49 12.455	0 6 22.00	4	9006 NAINI TAL	8711	5 JW	4309
	9 30	4 2 54.8590	3 13 46.580	-16 15 40.72	4	9004 SAN FERNAN	10695	5 AC	4843
	9 30	4 3 6.8590	3 20 44.389	-14 55 54.30	4	9004 SAN FERNAN	10695	8 SE	4844
	9 30	11 6 53.6560	1 42 33.163	-38 7 41.88	4	9003 WOOMERA	16152	3 NG	7027
	9 30	11 33 56.6133	1 42 39.539	- 3 14 44.15	4	9001 ORGAN PASS	11869	7 EM	4510
	9 30	15 22 53.6715	1 57 17.786	46 0 43.23	4	9012 MAJI	11433	3 EM	3960
	9 30	15 22 59.6716	2 0 24.497	46 43 24.85	4	9012 MAJI	11433	6 EM	3961
	9 30	15 29 39.2598	7 35 4.772	66 50 25.51	4	9012 MAJI	11434	7 JW	3958

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	9 18	2 26 43.6051	19 14 30.930	-66 10 37.96	4	9011 VILLA DOLO	10608	7 AM	3948
	9 18	2 26 47.6051	19 19 13.852	-66 29 9.73	4	9011 VILLA DOLO	10608	8 AM	3949
	9 18	9 37 5.7130	16 40 9.260	-30 14 15.53	4	9003 WOOMERA	15939	6 FI	3142
	9 18	9 50 9.6550	22 8 47.997	-52 18 20.31	4	9003 WOOMERA	15941	3 FI	3143
	9 18	9 50 21.6545	22 16 39.796	-52 1 56.28	4	9003 WOOMERA	15941	6 FI	3144
	9 18	21 43 16.0177	6 51 19.548	-7 36 2.54	4	9006 NAINI TAL	8558	3 TA	3876
	9 19	0 58 43.2157	1 9 39.091	-51 56 32.63	4	9011 VILLA DOLO	10636	3 KA	5769
	9 19	9 1 52.3371	7 13 1.048	11 45 59.92	4	9010 JUPITER	11087	1 AC	3885
	9 19	9 2 0.3379	7 15 38.385	12 21 29.27	4	9010 JUPITER	11087	2 AC	3886
	9 19	12 14 21.2070	23 6 41.195	-69 20 6.43	4	9003 WOOMERA	15978	1 FI	3145
	9 19	12 14 29.2069	23 19 54.219	-68 51 13.60	4	9003 WOOMERA	15978	3 FI	3146
	9 19	19 44 35.7421	20 24 29.330	-78 34 8.37	4	9002 OLIFANTS	14634	3 KA	2910
	9 19	23 58 57.1514	5 37 3.882	-18 10 49.29	4	9008 SHIRAZ	14169	2 KA	4297
	9 19	23 59 5.1516	5 40 42.496	-17 9 55.86	4	9008 SHIRAZ	14169	4 KA	4298
	9 20	3 43 41.7108	5 18 24.747	-29 17 34.30	4	9004 SAN FERNAN	10502	3 TA	4838
	9 20	3 43 53.7109	5 23 19.242	-28 4 46.19	4	9004 SAN FERNAN	10502	6 TA	4839
	9 20	11 23 35.5704	7 52 40.268	23 31 35.89	4	9001 ORGAN PASS	11704	4 AM	4500
	9 20	11 23 43.5705	7 55 7.540	23 50 27.88	4	9001 ORGAN PASS	11704	5 AM	4501
	9 20	22 28 12.9702	3 17 17.770	-36 0 48.32	4	9006 NAINI TAL	8586	3 TA	3877
	9 20	22 28 24.9702	3 24 40.004	-34 47 45.90	4	9006 NAINI TAL	8586	6 JW	3878
	9 21	9 47 53.8573	6 47 14.313	-8 53 20.61	4	9001 ORGAN PASS	11720	3 AM	4502
	9 21	9 48 1.8573	6 49 31.270	-8 10 16.49	4	9001 ORGAN PASS	11720	4 AM	4503
	9 21	13 30 0.6973	5 35 23.624	-11 33 24.36	4	9012 MAUI	11335	4 FI	2582
	9 21	13 30 6.6941	5 38 37.033	-10 34 6.87	4	9012 MAUI	11335	7 FI	2583
	9 21	13 33 58.6648	7 15 42.296	16 32 7.87	4	9012 MAUI	11336	2 FI	2584
	9 21	13 34 6.6651	7 18 19.395	17 6 35.97	4	9012 MAUI	11336	4 FI	2585
	9 21	20 34 30.2120	17 50 22.378	-65 44 47.55	4	9002 OLIFANTS	14668	8 NG	4834
	9 22	11 35 46.9323	1 20 18.751	-52 40 1.17	4	9003 WOOMERA	16018	4 FI	3147
	9 22	11 35 54.9321	1 25 5.243	-51 46 7.97	4	9003 WOOMERA	16018	6 FI	3148
	9 22	22 28 37.0275	7 28 1.928	38 10 43.03	4	9006 NAINI TAL	8615	5 BM	4301
	9 22	23 28 53.0278	7 35 3.485	38 34 56.60	4	9006 NAINI TAL	8615	7 BM	4302
	9 23	6 48 21.9160	7 2 31.743	13 32 48.75	4	9009 CJRACAD	9068	3 TA	4318
	9 23	6 48 37.9162	7 7 3.442	14 51 29.83	4	9009 CJRACAD	9068	7 TA	4319
	9 23	14 19 9.6759	2 40 35.099	-4 28 28.94	4	9012 MAUI	11359	2 FI	2586
	9 23	14 19 17.6758	2 46 27.693	-3 3 23.70	4	9012 MAUI	11359	6 FI	2976
	9 23	14 26 50.2421	7 41 22.195	41 51 55.38	4	9012 MAUI	11360	4 FI	2587
	9 23	14 26 54.2421	7 43 3.094	41 56 0.31	4	9012 MAUI	11360	5 FI	2588
	9 23	21 49 38.8780	4 48 2.583	-24 44 22.94	4	9006 NAINI TAL	8625	4 TA	4303
	9 23	21 49 50.8779	4 54 50.574	-23 5 29.20	4	9006 NAINI TAL	8625	7 TA	4304
	9 23	21 55 35.5428	7 24 22.041	14 27 10.39	4	9006 NAINI TAL	8626	3 KA	2911
	9 23	21 55 43.5433	7 26 57.197	14 57 35.28	4	9006 NAINI TAL	8626	4 KA	2912
	9 24	9 5 42.7115	C 44 52.497	21 34 51.53	4	9009 CJRACAD	9082	4 AC	4693
	9 24	9 5 46.7113	0 46 40.083	22 12 41.01	4	9009 CJRACAD	9082	6 AC	4694
	9 24	12 24 37.3262	22 26 25.554	-67 51 51.69	4	9003 WOOMERA	16050	7 FI	3149
	9 24	12 24 41.3260	22 33 15.905	-67 41 59.65	4	9003 WOOMERA	16050	8 FI	3150

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 6 30	20 14 19.6230	1	20 28 54.205	-13 3 49.25	9003 WOOMERA	3P2 WJ6	ME	6984
6 30	20 16 2.3434	1	21 37 33.171	0 48 8.95	9003 WOOMERA	15P2 WJ6	ME	6985
6 30	20 19 26.5472	1	23 42 57.984	28 2 19.67	9003 WOOMERA	24P2 WJ6	ME	6986
7 9	8 38 C.1015	1	23 18 45.443	2 26 43.35	9009 CURACAO	8269 10	DM	7023
7 9	8 38 24.1015	1	23 37 9.425	8 4 25.74	9009 CURACAO	8269 22	DM	7024
7 9	12 40 58.8143	1	23 40 44.641	-46 35 2.97	9012 MAUI	10194 3	BN	6732
7 9	12 41 2.8144	1	23 42 51.015	-46 12 40.48	9012 MAUI	10194 4	BN	6733
7 9	12 48 49.8669	1	3 25 21.281	11 58 27.66	9012 MAUI	10196 3	BN	6734
7 9	12 48 52.8668	1	3 27 1.928	12 20 45.85	9012 MAUI	10196 4	BN	6735
7 10	8 29 15.8864	1	C 18 42.762	35 30 15.83	9009 CURACAO	8287 7	DM	7025
7 10	8 29 17.8864	1	C 20 33.855	35 51 14.35	9009 CURACAO	8287 8	DM	7026
7 10	12 31 35.5415	1	23 53 34.993	-36 15 50.64	9012 MAUI	10218 6	BA	6736
7 10	12 31 37.5415	1	23 54 39.579	-36 1 29.31	9012 MAUI	10218 7	BN	6737
7 10	12 34 27.1066	1	1 25 31.398	-11 53 31.36	9012 MAUI	10219 6	BN	6738
7 10	12 34 29.1066	1	1 26 33.737	-11 35 18.43	9012 MAUI	10219 7	BN	6739
7 11	13 21 26.8206	1	23 44 55.008	-28 57 57.80	9012 MAUI	10244 7	DM	6740
7 11	13 21 30.8206	1	23 46 4.802	-28 41 12.04	9012 MAUI	10244 8	DM	9203
7 11	12 23 31.4707	1	0 55 59.816	-9 58 9.77	9012 MAUI	10246 3	DM	6741
7 11	12 23 35.4707	1	C 58 17.842	-9 19 5.90	9012 MAUI	10246 5	DM	6742
7 12	8 5 26.3064	1	21 5 7.533	16 35 12.04	9009 CURACAO	8317 6	DM	7027
7 12	8 7 43.2894	1	22 50 11.851	46 42 1.82	9009 CURACAO	8318 7	DM	7028
7 13	2 51 6.0447	1	C 43 38.364	-24 19 9.07	9004 SAN FERNAN	9137 4	PG	6970
7 13	7 55 23.2928	1	2C 51 51.148	31 5 36.98	9009 CURACAO	8337 4	DM	7029
7 13	7 55 25.2923	1	20 53 4.749	31 32 58.33	9009 CURACAO	8337 5	DM	7030
7 13	7 57 31.8280	1	22 37 58.153	56 31 19.00	9009 CURACAO	8338 3	DM	7031
7 13	12 3 23.1308	1	C 59 42.309	13 11 59.02	9012 MAUI	10277 2	DM	6743
7 13	12 3 31.1328	1	1 5 8.357	14 24 45.62	9012 MAUI	10277 6	DM	6744
7 13	14 47 15.5472	1	19 34 13.729	27 2 53.03	9012 MAUI	10283 3	DM	6745
7 13	14 47 27.5476	1	19 35 37.859	28 29 56.34	9012 MAUI	10283 7	DM	6746
7 14	2 38 46.2360	1	23 42 0.759	-31 15 54.87	9004 SAN FERNAN	9164 7	PG	6971
7 14	2 40 47.7814	1	C 38 10.895	-20 0 51.64	9004 SAN FERNAN	9165 5	PG	6972
7 14	7 45 49.2244	1	20 57 54.718	49 40 9.27	9009 CURACAO	8362 4	DM	7032
7 14	7 46 5.2240	1	21 10 19.506	52 43 9.38	9009 CURACAO	8362 8	DM	7033
7 14	7 47 9.2275	1	22 13 29.104	63 4 41.21	9009 CURACAO	8363 3	DM	7034
7 14	7 47 17.2272	1	22 23 13.516	64 7 44.82	9009 CURACAO	8363 5	DM	7035
7 14	9 32 1.9099	1	20 21 39.753	30 10 30.04	9010 JUPIITER	10040 7	DM	7016
7 15	2 30 59.9564	1	C 49 36.748	-11 58 22.12	9004 SAN FERNAN	9196 2	PG	6973
7 15	2 31 3.9565	1	C 51 39.171	-11 32 58.36	9004 SAN FERNAN	9196 3	PG	6974
7 15	4 14 35.0948	1	21 15 40.883	-3 30 1.87	9004 SAN FERNAN	9205 7	PG	6975
7 15	4 14 43.0948	1	21 19 26.051	-2 28 36.75	9004 SAN FERNAN	9205 5	PG	6976
7 15	21 12 7.1626	10	22 22 52.942	-8 25 33.18	9006 NAINI TAL	8307 6	VD	6603
7 15	21 12 11.1618	10	22 25 39.038	-7 47 20.09	9006 NAINI TAL	8307 7	VD	6604
7 15	22 56 16.4300	1	0 12 39.109	11 39 42.12	9008 SHIRAZ	12991 7	YK	6262
7 16	C 39 20.7480	1	19 17 5.768	14 57 21.52	9008 SHIRAZ	12999 2	YK	7070
7 16	C 39 28.7476	1	19 18 16.855	16 4 57.06	9008 SHIRAZ	12999 4	YK	7089

DATE		TIME (A-1)		RMS	R.A. (1950.0)		DECL. (1950.0)		STATION		FRAME NO.	MS	OBS. NO.
Y	M	D	H	M	S	H	M	S	D	M	S		
1963	9	30	15	29	43.2597	7	38	10.430	66	46	19.10	4	5016
	9	30	22	49	40.1851	1	53	9.578	3	18	58.51	4	4310
	9	30	22	49	48.1850	1	57	20.573	4	24	7.58	4	4311
	9	30	22	59	0.8010	1	8	7	47	17	28.84	4	4313
	9	30	22	59	40.8219	1	8	24	47	2	47.53	4	4312

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 7 20	12 33 57.3966	1	17 2 48.627	51 59 49.68	9012 MAUI	10379	7 DM	6683
7 21	6 35 21.5672	1	2 13 23.352	53 29 55.65	9010 JUPITER	10185	6 HC	6837
7 21	6 35 37.5679	1	2 26 17.992	53 1 59.86	9010 JUPITER	10185	8 HC	6838
7 21	8 19 27.7397	1	17 7 17.730	69 15 58.11	9010 JUPITER	10190	4 HC	6839
7 21	11 39 42.3897	1	C 51 1.159	70 44 20.09	9012 MAUI	10402	2 BN	6884
7 21	11 39 47.3900	1	C 57 45.040	70 38 1.42	9012 MAUI	10402	3 3N	6885
7 21	21 54 18.5671	1	1 23 32.956	59 46 14.36	9008 SHIRAZ	13116	4 YK	7078
7 21	21 54 26.5673	1	1 34 1.432	59 32 40.79	9008 SHIRAZ	13116	6 YK	8102
7 22	1 18 55.1519	1	1 30 20.009	30 4 10.23	9004 SAN FERNAN	9390	6 SU	6856
7 22	1 19 3.1519	1	1 35 52.293	30 18 42.25	9004 SAN FERNAN	9390	8 SU	6857
7 22	3 3 6.9367	1	2C 39 45.444	67 25 28.28	9004 SAN FERNAN	9396	4 SU	6858
7 22	3 3 18.9367	1	21 1 55.397	69 47 9.77	9004 SAN FERNAN	9396	7 SU	6859
7 22	2C 1 23.0782	1	0 56 39.981	67 30 43.48	9006 NAINI TAL	8333	7 VD	6605
7 23	1 7 39.3743	1	1 1 57.306	33 4 37.45	9004 SAN FERNAN	9417	2 SU	7695
7 23	1 7 47.3742	1	1 8 17.537	33 19 36.13	9004 SAN FERNAN	9417	4 SU	6851
7 23	2 52 15.5364	1	19 52 17.159	68 14 10.74	9004 SAN FERNAN	9420	6 SU	7696
7 23	2 52 19.5364	1	19 57 58.758	69 5 20.97	9004 SAN FERNAN	9420	7 SU	6863
7 23	9 40 22.4077	1	17 30 54.180	67 57 27.51	9001 ORGAN PASS	11167	6 MY	6055
7 23	9 40 24.4078	1	17 30 51.018	68 21 16.08	9001 ORGAN PASS	11167	7 MY	6056
7 23	19 50 26.1529	1	0 26 33.333	72 2 25.69	9006 NAINI TAL	8361	5 VD	6606
7 23	19 50 38.1534	1	0 53 16.144	71 33 12.75	9006 NAINI TAL	8361	8 VD	6607
7 23	21 32 51.7852	1	1 24 41.463	67 54 36.93	9008 SHIRAZ	13149	5 YK	7079
7 23	21 32 59.7857	1	1 37 13.809	67 23 55.67	9008 SHIRAZ	13149	7 YK	2468
7 23	23 17 51.8184	1	16 10 58.620	67 33 56.04	9008 SHIRAZ	13155	3 YK	7081
7 23	23 17 55.8182	1	16 6 9.225	68 45 57.27	9008 SHIRAZ	13155	5 YK	7082
7 24	7 45 6.9072	1	1 12 44.862	53 30 47.37	9001 ORGAN PASS	11182	5 MY	6057
7 24	7 45 10.9072	1	1 16 57.951	53 23 53.70	9001 ORGAN PASS	11182	7 MY	6058
7 24	9 29 26.1751	1	17 2 24.349	66 3 46.99	9001 ORGAN PASS	11186	2 MY	6059
7 24	9 29 30.1753	1	17 1 50.563	66 49 5.35	9001 ORGAN PASS	11186	4 MY	6060
7 24	11 15 59.6944	1	16 50 31.975	56 31 39.77	9001 ORGAN PASS	11189	2 MY	6061
7 24	11 16 7.6945	1	16 48 8.738	57 30 35.92	9001 ORGAN PASS	11189	4 MY	6062
7 24	17 22 35.6746	1	5 12 44.232	-79 30 17.34	9002 OLIFANTS	13576	6 MY	6063
7 24	19 39 22.9226	1	23 26 51.630	76 17 40.58	9006 NAINI TAL	8382	3 VD	6608
7 24	23 6 59.8674	1	15 53 50.478	66 23 50.10	9008 SHIRAZ	13177	4 YK	7083
7 25	0 46 16.2275	1	0 59 28.897	41 21 3.29	9004 SAN FERNAN	9458	4 SU	6864
7 25	0 46 32.2276	1	1 13 1.489	41 16 46.57	9004 SAN FERNAN	9458	8 SU	6865
7 25	7 35 59.3761	1	15 42 45.482	63 58 10.36	9010 JUPITER	10211	6 BA	6840
7 25	7 36 7.3764	1	15 39 13.007	65 3 53.66	9010 JUPITER	10211	8 BA	6841
7 25	10 56 45.6314	1	0 47 18.073	84 31 55.28	9012 MAUI	10475	3 BN	6686
7 25	10 56 53.6315	1	1 21 18.823	83 55 19.67	9012 MAUI	10475	5 3N	6687
7 25	22 56 29.8805	1	15 24 43.572	68 22 55.49	9008 SHIRAZ	13203	6 YK	7084
7 25	22 56 33.8805	1	15 21 50.368	68 55 24.02	9008 SHIRAZ	13203	7 YK	8103
7 26	C 1 20.9053	10	10 54 7.730	-47 5 31.80	9011 VILLA DOLO	9984	4 VD	6609
7 26	C 1 28.9050	10	11 5 25.136	-47 18 27.00	9011 VILLA DOLO	9984	6 VD	6610
7 26	0 36 2.8853	1	1 24 18.550	44 24 3.10	9004 SAN FERNAN	9484	6 SU	6856

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 7 16	C 42 47.2366	1	19 59 47.730	53 55 24.93	9008 SHIRAZ	13000	6 YK	7072
7 16	C 42 49.2367	1	20 0 29.475	54 22 55.11	9008 SHIRAZ	13000	7 YK	7073
7 16	4 5 53.6349	1	22 2 40.074	21 38 4.55	9004 SAN FERNAN	9236	5 PG	6977
7 16	4 5 55.6348	1	22 4 19.022	22 2 58.03	9004 SAN FERNAN	9236	6 PG	6978
7 16	9 6 56.9609	1	18 48 28.456	2 52 34.69	9010 JUPITER	10079	5 DM	7017
7 16	9 11 8.6723	1	19 32 48.648	42 51 13.99	9010 JUPITER	10080	7 DM	7018
7 16	12 31 5.1638	1	23 41 21.605	32 32 27.20	9012 MAUI	10323	5 BN	6747
7 16	12 31 9.1639	1	23 45 11.031	33 7 45.33	9012 MAUI	10323	7 BN	6748
7 17	C 20 28.6587	1	19 10 56.405	35 43 12.42	9008 SHIRAZ	13023	4 YK	7074
7 17	0 30 34.6590	1	19 11 49.063	36 50 58.62	9008 SHIRAZ	13023	7 YK	7075
7 17	2 8 29.0608	1	23 42 13.287	-13 29 55.39	9004 SAN FERNAN	9258	3 PG	6979
7 17	2 8 33.0606	1	23 44 30.726	-13 2 28.36	9004 SAN FERNAN	9258	4 PG	6980
7 17	3 51 54.5398	1	19 59 41.416	- 4 2 31.01	9004 SAN FERNAN	9265	6 PG	6981
7 17	3 52 2.5396	1	20 2 9.118	- 3 11 21.93	9004 SAN FERNAN	9265	7 PG	6982
7 17	8 56 52.4760	1	18 34 9.361	10 20 56.52	9010 JUPITER	10103	7 DM	7019
7 17	8 57 0.4763	1	18 35 9.200	11 19 17.91	9010 JUPITER	10103	8 DM	7020
7 17	9 0 11.4593	1	19 1 58.312	41 57 41.13	9010 JUPITER	10104	6 DM	7021
7 17	9 0 15.4595	1	19 2 38.929	42 45 35.83	9010 JUPITER	10104	7 DM	7022
7 18	1 59 10.5691	1	0 17 28.203	- 0 9 2.74	9004 SAN FERNAN	9290	3 PG	6983
7 19	1 49 48.7919	1	0 58 27.575	12 37 16.89	9004 SAN FERNAN	9320	4 SU	6848
7 19	1 49 52.7920	1	1 1 5.392	12 59 23.26	9004 SAN FERNAN	9320	5 SU	6849
7 19	3 34 51.7449	1	21 41 51.118	51 33 40.53	9004 SAN FERNAN	9326	4 SU	8104
7 19	3 34 53.7448	1	21 44 28.362	51 59 40.15	9004 SAN FERNAN	9326	5 SU	6851
7 19	6 56 30.2460	1	2 4 19.994	44 58 5.94	9010 JUPITER	10138	5 HC	6829
7 19	6 56 38.2464	1	2 10 34.878	45 2 44.36	9010 JUPITER	10138	6 HC	6830
7 19	8 38 42.3610	1	1 32 12.849	30 12 53.45	9001 ORGAN PASS	11107	7 MY	8100
7 19	8 39 58.3597	1	18 14 42.965	58 47 47.33	9010 JUPITER	10146	4 HC	6831
7 19	8 40 6.3600	1	18 14 52.805	60 19 9.97	9010 JUPITER	10146	6 HC	6832
7 19	10 22 53.5794	1	19 37 43.491	58 41 45.68	9001 ORGAN PASS	11113	1 MY	6049
7 19	10 22 55.5786	1	19 38 51.637	59 9 19.44	9001 ORGAN PASS	11113	2 PL	6050
7 19	22 16 5.3562	1	1 54 1.106	50 6 50.88	9008 SHIRAZ	13069	3 YK	7076
7 19	22 16 21.3566	1	2 9 47.523	50 1 26.19	9008 SHIRAZ	13069	7 YK	7077
7 20	1 39 41.3659	1	1 13 50.637	19 47 34.27	9004 SAN FERNAN	9344	4 BN	6852
7 20	1 39 49.3661	1	1 19 14.007	20 21 6.21	9004 SAN FERNAN	9344	6 BN	6853
7 20	3 24 49.6579	1	22 17 1.883	63 48 30.16	9004 SAN FERNAN	9351	3 SU	6854
7 20	3 24 53.6579	1	22 25 16.791	64 28 3.80	9004 SAN FERNAN	9351	4 SU	6855
7 20	6 45 49.2757	1	2 2 8.277	49 33 24.11	9010 JUPITER	10167	3 HC	6833
7 20	6 45 57.2761	1	2 8 46.859	49 29 50.96	9010 JUPITER	10167	4 HC	6834
7 20	8 27 39.2240	1	1 8 49.061	34 7 46.49	9001 ORGAN PASS	11118	2 MY	6051
7 20	8 27 47.2236	1	1 15 34.334	34 32 54.46	9001 ORGAN PASS	11118	6 MY	6052
7 20	8 29 20.6798	1	17 46 23.356	60 21 12.48	9010 JUPITER	10174	6 HC	6835
7 20	8 29 24.6800	1	17 46 4.656	61 4 23.42	9010 JUPITER	10174	7 HC	6836
7 20	10 12 16.1524	1	19 6 13.542	61 39 45.76	9001 ORGAN PASS	11123	3 MY	6053
7 20	10 12 18.1526	1	19 7 7.064	62 6 27.88	9001 ORGAN PASS	11123	4 MY	6054
7 20	13 33 41.3966	1	17 4 31.195	49 50 38.10	9012 MAUI	10379	3 DM	6682

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963 7 31	1 6 59.8388	1	18 6 35.442	8 53 28.77	4	9009 CJRACAU	8608	8 YK	7386
7 31	1 26 38.3922	1	15 12 12.037	79 36 59.58	4	9004 SAN FERNAN	9609	7 VD	6599
7 31	2 55 31.0601	1	18 42 44.329	25 52 57.05	4	9010 JUPITER	10309	3 BA	6846
7 31	2 55 35.0602	1	18 46 46.535	26 43 9.36	4	9010 JUPITER	10309	5 BA	6847
7 31	8 0 2.7957	1	16 29 40.956	34 1 56.52	4	9012 MAUI	10571	4 VD	6614
7 31	8 0 6.7958	1	16 32 47.557	35 1 39.52	4	9012 MAUI	10571	6 VD	6615
7 31	9 48 53.0328	1	13 53 58.144	61 22 55.24	4	9012 MAUI	10573	5 PK	570
7 31	9 48 55.0328	1	13 53 33.909	61 39 13.84	4	9012 MAUI	10573	6 PK	6987
7 31	16 28 55.8917	1	20 12 20.859	-14 2 59.62	4	9008 SHIRAZ	13290	2 YK	7381
7 31	16 28 59.8919	1	20 14 8.912	-13 32 20.62	4	9008 SHIRAZ	13290	3 YK	7382
7 31	18 15 14.7378	1	17 53 57.547	29 20 10.55	4	9008 SHIRAZ	13296	9 YK	7384
7 31	21 39 56.4160	1	19 56 45.714	4 22 47.69	4	9004 SAN FERNAN	9622	8 VD	6600
7 31	22 26 53.9694	1	17 25 36.221	53 53 35.96	4	9004 SAN FERNAN	9628	4 VD	6601
7 31	23 27 5.9694	1	17 38 38.884	56 28 34.49	4	9004 SAN FERNAN	9628	7 VD	6602
8 1	1 15 34.7673	1	14 58 34.896	76 26 33.78	4	9004 SAN FERNAN	9636	4 JW	1224
8 1	2 44 25.4457	1	17 49 17.393	28 29 22.12	4	9010 JUPITER	10329	3 SE	2376
8 1	6 15 34.9053	1	15 50 40.698	65 51 35.21	4	9001 ORGAN PASS	11224	2 JW	1691
8 1	6 15 40.9053	1	15 53 51.771	67 6 42.26	4	9001 ORGAN PASS	11224	5 JW	2446
8 1	7 49 32.1733	1	15 59 51.211	42 24 47.09	4	9012 MAUI	10597	4 JV	2600
8 1	7 49 38.1736	1	16 4 26.828	43 51 30.89	4	9012 MAUI	10597	7 JV	2601
8 1	8 4 15.7065	1	13 25 25.137	74 17 13.11	4	9001 ORGAN PASS	11232	3 BM	2447
8 1	8 4 17.7066	1	13 22 45.934	74 32 10.09	4	9001 ORGAN PASS	11232	4 BM	3985
8 1	9 38 35.4526	1	13 22 59.104	64 53 5.21	4	9012 MAUI	10599	7 TA	2772
8 1	19 53 0.6504	1	14 12 34.330	67 8 9.77	4	9008 SHIRAZ	13308	5 KA	2959
8 1	21 28 53.5357	1	19 25 6.476	6 33 9.75	4	9004 SAN FERNAN	9644	3 JW	1222
8 1	21 29 1.5356	1	19 31 48.218	7 47 36.38	4	9004 SAN FERNAN	9644	5 JW	1583
8 1	23 16 17.0569	1	17 2 38.822	58 55 37.36	4	9004 SAN FERNAN	9649	5 AM	1220
8 1	23 16 21.0571	1	17 7 1.069	59 47 31.26	4	9004 SAN FERNAN	9649	6 AM	1221
8 2	1 5 3.4958	1	14 19 45.231	79 12 21.48	4	9004 SAN FERNAN	9655	5 AM	1218
8 2	1 5 11.4959	1	14 7 41.418	80 35 35.82	4	9004 SAN FERNAN	9655	7 AM	1219
8 2	2 33 39.9200	1	17 13 7.840	35 6 9.53	4	9010 JUPITER	10350	5 SE	2377
8 2	2 33 41.9202	1	17 15 9.274	35 34 28.53	4	9010 JUPITER	10350	6 SE	2378
8 2	2 53 41.6790	1	11 53 18.018	87 44 17.04	4	9004 SAN FERNAN	9660	4 AM	1582
8 2	4 22 6.5636	1	13 53 1.998	65 44 25.93	4	9010 JUPITER	10354	6 SE	2960
8 2	4 22 10.5635	1	13 52 3.238	66 23 25.17	4	9010 JUPITER	10354	7 SE	6098
8 2	7 53 52.9301	1	12 31 31.198	76 53 31.88	4	9001 ORGAN PASS	11237	2 BM	1692
8 2	7 54 8.9304	1	11 55 49.855	78 26 20.57	4	9001 ORGAN PASS	11237	6 BM	1693
8 2	9 43 17.4003	1	8 11 34.234	81 22 22.10	4	9001 ORGAN PASS	11242	2 BM	2448
8 2	9 43 33.4008	1	7 24 4.209	79 26 37.37	4	9001 ORGAN PASS	11242	6 BM	1695
8 2	9 49 23.0500	1	22 59 46.891	82 40 20.30	4	9010 JUPITER	10372	5 SE	2379
8 2	9 49 31.0500	1	23 47 39.228	82 38 36.60	4	9010 JUPITER	10372	7 SE	2380
8 2	14 58 36.3331	1	5 47 28.872	66 20 7.32	4	9012 MAUI	10624	3 TA	2773
8 2	14 58 38.3332	1	5 47 48.714	65 55 41.37	4	9012 MAUI	10624	4 TA	2774
8 2	21 18 24.0032	1	19 20 55.344	14 21 39.63	4	9004 SAN FERNAN	9667	5 AM	1215
8 2	21 18 32.0032	1	19 28 21.338	15 35 59.36	4	9004 SAN FERNAN	9667	7 AM	1216

DATE Y M D	TIME (A-1)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			RMS S	STATION	FRAME NO.	MS	OBS. NO.
	H	M	S		H	M	S	D	M	S					
1963	7 26	0 36	6.8854	1	1 27 27.317	44 17 8.13	4	9004	SAN FERNAN	9484	7	SU	6857		
	7 26	2 20	23.8833	1	18 24 41.226	77 22 22.86	4	9004	SAN FERNAN	9489	9	SU	8109		
	7 26	10 15	1.9909	1	14 34 50.469	-56 13 20.87	4	9003	WOODMERA	15084	5	MY	6046		
	7 26	10 15	3.9907	1	14 40 30.268	-55 46 6.83	4	9003	WOODMERA	15084	6	MY	6047		
	7 26	10 45	56.2003	1	0 57 20.210	87 22 26.56	4	9012	MAUI	10487	3	3N	6688		
	7 26	10 46	16.2005	1	2 39 36.890	85 19 35.92	4	9012	MAUI	10487	8	8N	6689		
	7 26	21 0	22.4965	1	1 20 26.884	78 26 28.65	4	9008	SHIRAZ	13222	3	PK	7086		
	7 26	21 0	30.4964	1	1 39 27.817	77 36 43.48	4	9008	SHIRAZ	13222	5	PK	7087		
	7 26	22 46	50.4707	1	13 48 22.158	76 0 1.14	4	9008	SHIRAZ	13226	4	YK	7373		
	7 26	22 47	6.4700	1	13 15 28.900	77 25 32.14	4	9008	SHIRAZ	13226	6	YK	7374		
	7 27	0 24	47.8760	1	0 58 13.313	48 37 37.42	4	9004	SAN FERNAN	9510	4	SU	7089		
	7 27	0 24	55.8759	1	1 5 32.883	48 20 4.41	4	9004	SAN FERNAN	9510	6	SU	7090		
	7 27	2 9	18.4986	1	17 29 1.245	73 53 22.94	4	9004	SAN FERNAN	9517	6	SU	7091		
	7 27	5 29	57.1346	1	1 37 50.877	76 59 27.19	4	9010	JUPITER	10236	5	BA	6842		
	7 27	5 30	5.1352	1	1 51 30.359	76 9 46.22	4	9010	JUPITER	10236	6	BA	6843		
	7 27	10 34	23.5026	1	15 49 30.660	84 33 13.75	4	9012	MAUI	10502	3	BA	6690		
	7 27	10 34	27.5026	1	15 48 39.486	85 6 43.34	4	9012	MAUI	10502	4	BA	6691		
	7 27	16 50	44.6019	1	7 54 32.193	-77 31 17.11	4	9002	OLIFANTS	13641	6	MY	6064		
	7 27	16 50	48.6028	1	7 59 19.139	-78 20 13.13	4	9002	OLIFANTS	13641	7	MY	6065		
	7 27	16 55	31.8683	1	19 19 44.542	-15 14 40.78	4	9002	OLIFANTS	13642	11	MY	6066		
	7 27	22 41	33.5996	1	13 1 38.725	-22 26 10.26	4	9011	VILLA DOLO	10026	8	VD	6611		
	7 28	0 13	4.0453	1	23 52 1.233	54 9 58.74	4	9004	SAN FERNAN	9537	3	SU	7092		
	7 28	5 18	34.3918	1	0 13 5.680	83 5 52.60	4	9010	JUPITER	10254	3	BA	6844		
	7 28	5 18	46.3919	1	0 59 40.023	82 0 30.22	4	9010	JUPITER	10254	6	BA	6845		
	7 28	10 22	40.0249	1	15 3 36.641	75 28 45.92	4	9012	MAUI	10505	3	BA	6692		
	7 28	10 22	44.0262	1	15 2 25.743	76 4 2.73	4	9012	MAUI	10505	5	BA	6693		
	7 29	0 15	12.6134	1	9 35 35.114	75 8 11.21	4	9008	SHIRAZ	13258	6	YK	7375		
	7 29	10 11	55.1047	1	14 22 51.354	74 52 41.36	4	9012	MAUI	10525	3	BA	6694		
	7 29	10 12	5.1048	1	14 17 15.322	76 15 7.15	4	9012	MAUI	10525	8	BA	6695		
	7 29	13 37	7.3423	1	23 10 49.145	47 3 35.59	4	9005	TOKYO	8704	5	PG	6965		
	7 29	13 37	11.3423	1	23 15 11.550	47 4 30.10	4	9005	TOKYO	8704	6	PG	6966		
	7 29	15 22	3.7510	1	16 39 3.552	68 4 21.37	4	9005	TOKYO	8707	11	PG	6967		
	7 29	17 11	8.4040	1	13 27 56.301	81 9 5.59	4	9005	TOKYO	8711	3	PG	6968		
	7 29	17 11	32.4040	1	11 33 22.334	82 53 6.73	4	9005	TOKYO	8711	9	PG	6969		
	7 29	23 50	56.1832	1	22 47 46.114	63 12 26.92	4	9004	SAN FERNAN	9574	4	SU	8110		
	7 29	23 51	C.1832	1	22 55 21.764	63 7 32.01	4	9004	SAN FERNAN	9574	5	SU	8111		
	7 30	18 28	48.4197	1	21 37 21.096	47 2 55.39	4	9008	SHIRAZ	13271	3	YK	7376		
	7 30	18 28	52.4197	1	21 41 57.582	47 15 14.56	4	9008	SHIRAZ	13271	5	YK	7698		
	7 30	20 13	54.7557	1	15 13 21.469	59 49 2.24	4	9008	SHIRAZ	13275	4	YK	7699		
	7 30	20 13	58.7558	1	15 13 30.787	60 33 22.97	4	9008	SHIRAZ	13275	6	YK	8112		
	7 30	22 4	6.6338	1	12 14 28.692	76 9 45.43	4	9008	SHIRAZ	13280	3	YK	7380		
	7 30	23 37	35.0763	1	17 56 10.510	50 8 6.72	4	9004	SAN FERNAN	9601	3	VD	6597		
	7 30	23 37	43.0764	1	18 0 27.846	50 59 35.44	4	9004	SAN FERNAN	9601	4	VD	6598		
	7 30	23 53	51.4585	1	8 42 7.804	75 54 25.34	4	9008	SHIRAZ	13284	6	YK	7383		
	7 31	1 6	55.8387	1	18 3 7.077	7 51 7.56	4	9009	CJRACAD	8608	6	YK	7385		

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	8 6	2 11 7.1039	1 11 4.566	82 39 45.64	4	9004 SAN FERNAN	9747	5 TA	2954
8 6	2 11 11.1038	1 1 26 4.645	81 57 12.19	4	9004 SAN FERNAN	9747	6 VG	2312	
8 6	3 58 56.8479	1 22 41 7.139	37 48 39.31	4	9004 SAN FERNAN	9752	3 JW	1705	
8 6	3 59 2.8478	1 22 49 7.470	37 1 33.39	4	9004 SAN FERNAN	9752	6 JW	1706	
8 6	9 7 40.6139	1 0 16 12.543	56 37 29.61	4	9010 JUPITER	10452	3 RD	2316	
8 6	9 7 46.6141	1 0 26 8.384	55 37 40.69	4	9010 JUPITER	10452	6 RD	2317	
8 6	14 15 51.7489	1 2 35 35.979	57 55 35.09	4	9012 MAUI	10670	1 TA	2776	
8 6	14 15 53.7490	1 2 37 47.752	57 28 18.04	4	9012 MAUI	10670	2 TA	2777	
8 6	17 11 5.0744	1 14 24 27.271	60 59 22.66	4	9008 SHIRAZ	13380	2 JW	2364	
8 6	17 11 7.0744	1 14 25 52.704	61 26 56.63	4	9008 SHIRAZ	13380	3 JW	2365	
8 6	20 34 32.6622	1 17 0 31.250	30 3 6.92	4	9004 SAN FERNAN	9755	3 SE	2756	
8 6	20 34 38.6621	1 17 7 32.583	31 18 45.40	4	9004 SAN FERNAN	9755	6 SE	2956	
8 6	22 22 32.1915	1 14 19 1.811	69 0 46.26	4	9004 SAN FERNAN	9759	5 SE	2758	
8 7	0 12 12.6020	1 7 0 33.745	84 51 59.43	4	9004 SAN FERNAN	9766	1 SE	2759	
8 7	2 0 39.7632	1 1 15 25.730	77 38 38.36	4	9004 SAN FERNAN	9772	2 SE	2760	
8 7	2 0 47.7635	1 1 32 5.275	76 5 8.04	4	9004 SAN FERNAN	9772	4 SE	2751	
8 7	3 47 55.4519	1 22 6 32.918	33 21 18.86	4	9004 SAN FERNAN	9778	2 SE	2762	
8 7	6 45 7.5758	1 12 21 2.108	55 17 55.02	4	9012 MAUI	10674	7 EM	2778	
8 7	7 9 4.7921	1 4 58 39.302	72 32 56.24	4	9010 JUPITER	10473	4 RD	2318	
8 7	7 9 16.7921	1 4 52 34.807	70 37 0.58	4	9010 JUPITER	10473	7 RD	2319	
8 7	8 50 19.8896	1 3 16 25.203	74 36 17.29	4	9001 ORGAN PASS	11267	4 EM	1699	
8 7	8 50 25.8898	1 3 18 22.402	73 23 6.53	4	9001 ORGAN PASS	11267	7 EM	1700	
8 7	10 37 35.3438	1 22 27 11.359	37 6 9.68	4	9001 ORGAN PASS	11271	3 NG	1701	
8 7	10 37 39.3439	1 22 32 9.287	36 34 0.68	4	9001 ORGAN PASS	11271	5 NG	1702	
8 7	12 16 9.7167	1 5 46 46.830	71 30 11.17	4	9012 MAUI	10687	1 EM	2779	
8 7	14 5 1.4382	1 1 38 32.294	54 58 2.06	4	9012 MAUI	10693	5 EM	2780	
8 7	14 5 5.4384	1 1 43 29.460	54 5 51.53	4	9012 MAUI	10693	7 KA	2781	
8 8	0 3 43.3970	1 3 15 18.338	62 55 38.40	4	9004 SAN FERNAN	9791	3 SE	2763	
8 8	0 3 51.3971	1 3 14 5.315	61 38 21.67	4	9004 SAN FERNAN	9791	5 SE	2764	
8 8	1 29 46.6034	1 13 29 40.558	66 7 42.17	4	9010 JUPITER	10481	4 RD	2320	
8 8	1 49 35.8036	1 23 37 38.473	78 31 50.98	4	9004 SAN FERNAN	9796	3 SE	2765	
8 8	1 49 43.8037	1 0 4 25.152	77 20 26.84	4	9004 SAN FERNAN	9796	5 SE	2766	
8 8	3 37 25.2540	1 22 9 43.602	25 9 20.34	4	9004 SAN FERNAN	9801	2 JV	2767	
8 8	5 0 58.8128	1 11 35 5.658	75 56 10.94	4	9001 ORGAN PASS	11284	1 FI	1835	
8 8	5 1 4.8129	1 11 26 45.610	76 49 36.65	4	9001 ORGAN PASS	11284	4 FI	1836	
8 8	8 39 13.6303	1 2 9 0.424	77 55 18.63	4	9001 ORGAN PASS	11296	4 BM	1837	
8 8	8 39 15.6302	1 2 11 27.458	77 31 45.93	4	9001 ORGAN PASS	11296	5 BM	1838	
8 8	12 53 57.4447	1 0 26 8.316	53 9 17.02	4	9012 MAUI	10719	4 KA	2782	
8 8	12 54 3.4449	1 0 34 20.596	52 2 12.31	4	9012 MAUI	10719	7 KA	2783	
8 8	22 1 26.9981	1 13 16 11.278	76 3 10.15	4	9004 SAN FERNAN	9812	1 JV	2768	
8 8	22 1 34.9981	1 13 15 56.471	77 42 9.88	4	9004 SAN FERNAN	9812	3 JV	2957	
8 9	1 39 34.3812	1 0 43 43.882	68 10 56.57	4	9004 SAN FERNAN	9820	4 JV	2770	
8 9	1 39 38.3811	1 0 49 34.931	67 21 39.20	4	9004 SAN FERNAN	9820	5 JV	2771	
8 9	2 1 26.8791	1 14 24 28.075	59 12 49.04	4	9001 ORGAN PASS	11304	3 BM	1839	
8 9	2 1 30.8801	1 14 28 36.864	60 11 25.96	4	9001 ORGAN PASS	11304	5 BM	1840	

DATE Y M D	TIME (A-I)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.					
	H	M	S		H	M	S	D	M	S									
1963	8	2	23	5	33.6567	1	16	31	58.222	62	4	29.81	4	9004	SAN FERNAN	9673	3	EM	1230
	8	2	23	5	37.6567	1	16	36	7.508	62	56	41.61	4	9004	SAN FERNAN	9673	4	EM	1231
	8	3	0	54	21.6289	1	13	49	34.690	80	0	50.66	4	9004	SAN FERNAN	9681	4	EM	1228
	8	3	0	54	33.6291	1	13	23	49.867	81	58	37.10	4	9004	SAN FERNAN	9681	7	EM	1229
	8	3	2	43	44.0511	1	4	42	22.798	80	55	40.48	4	9004	SAN FERNAN	9686	4	BZ	1584
8	3	2	44	0.0511	1	4	38	11.899	77	37	14.53	4	9004	SAN FERNAN	9686	8	BZ	1227	
8	3	4	28	46.9998	1	19	42	3.396	54	9	22.36	4	9004	SAN FERNAN	9692	2	AM	2786	
8	3	4	29	7.0002	1	20	2	27.935	55	33	2.70	4	9004	SAN FERNAN	9692	7	AM	2787	
8	3	7	27	56.3759	1	14	36	2.182	47	42	15.34	4	9012	MAUI	10635	7	TA	2775	
8	3	7	52	1.0788	1	6	56	10.907	71	16	48.53	4	9010	JUPITER	10390	3	BM	2381	
8	3	7	52	9.0790	1	6	48	56.706	70	16	15.39	4	9010	JUPITER	10390	5	BM	2382	
8	3	9	40	20.6681	1	3	21	58.372	65	8	9.63	4	9010	JUPITER	10401	3	BM	2383	
8	3	9	40	26.6681	1	3	29	9.590	63	43	58.75	4	9010	JUPITER	10401	6	BM	6099	
8	3	11	19	43.1156	1	21	51	41.100	65	27	52.07	4	9001	ORGAN PASS	11252	3	NG	1703	
8	3	11	19	47.1155	1	22	0	5.339	65	31	46.33	4	9001	ORGAN PASS	11252	5	NG	1704	
8	3	21	7	17.6723	1	18	41	50.957	16	42	52.55	4	9004	SAN FERNAN	9695	3	BZ	1225	
8	3	21	7	23.6722	1	18	47	49.103	17	44	19.29	4	9004	SAN FERNAN	9695	6	BZ	1226	
8	3	22	54	39.6390	1	15	51	23.684	62	27	9.03	4	9004	SAN FERNAN	9700	3	BM	2948	
8	3	22	54	55.6388	1	16	5	39.995	65	57	5.74	4	9004	SAN FERNAN	9700	7	BM	2304	
8	3	23	11	13.7737	1	6	10	22.062	76	6	25.49	4	9008	SHIRAZ	13337	2	KA	2360	
8	3	23	11	21.7739	1	6	2	26.657	74	48	11.37	4	9008	SHIRAZ	13337	4	KA	2361	
8	4	2	12	59.4388	1	16	52	35.176	57	24	1.85	4	9010	JUPITER	10412	8	NG	2951	
8	4	2	13	7.4390	1	17	4	6.293	58	55	50.23	4	9010	JUPITER	10412	10	NG	2385	
8	4	4	20	52.1699	1	23	56	16.084	47	22	13.64	4	9004	SAN FERNAN	9712	7	BM	2949	
8	4	4	20	58.1700	1	0	6	1.115	46	24	30.92	4	9004	SAN FERNAN	9712	10	BM	2305	
8	4	9	29	29.7987	1	2	19	34.059	63	18	12.06	4	9010	JUPITER	10429	3	EM	2608	
8	4	9	29	39.7990	1	2	34	13.324	61	5	46.76	4	9010	JUPITER	10429	8	EM	2609	
8	4	9	33	18.1560	1	2	12	44.748	74	31	22.61	4	9009	CURACAO	8675	8	EM	2602	
8	4	9	33	22.1560	1	2	20	59.970	74	4	53.27	4	9009	CURACAO	8675	10	EM	2603	
8	5	0	12	57.1197	1	14	8	27.353	38	36	15.67	4	9009	CURACAO	8678	3	EM	2604	
8	5	0	13	5.1195	1	14	14	22.569	40	41	46.23	4	9009	CURACAO	8678	7	EM	2605	
8	5	0	33	26.5752	1	10	26	40.562	85	2	14.33	4	9004	SAN FERNAN	9722	7	NG	2306	
8	5	0	33	30.5754	1	9	53	44.903	85	14	30.48	4	9004	SAN FERNAN	9722	8	VG	2950	
8	5	4	9	59.1640	1	23	22	47.046	42	3	46.60	4	9004	SAN FERNAN	9731	5	NG	2308	
8	5	4	10	5.1638	1	23	31	37.463	41	9	55.32	4	9004	SAN FERNAN	9731	8	NG	2951	
8	5	9	11	22.8966	1	5	4	3.338	80	20	56.80	4	9001	ORGAN PASS	11256	3	EM	1696	
8	5	10	59	19.9743	1	23	27	55.968	49	21	0.63	4	9001	ORGAN PASS	11262	3	EM	1697	
8	5	10	59	27.9744	1	23	40	44.735	48	12	16.70	4	9001	ORGAN PASS	11262	7	EM	1698	
8	5	17	21	37.0679	1	14	55	41.712	55	27	47.04	4	9008	SHIRAZ	13367	1	JW	2362	
8	5	17	21	49.0688	1	15	5	28.489	58	17	7.04	4	9008	SHIRAZ	13367	4	JW	2363	
8	5	22	33	40.2766	1	15	8	29.567	72	39	54.44	4	9004	SAN FERNAN	9738	5	TA	2310	
8	5	22	33	48.2769	1	15	16	26.915	74	21	37.65	4	9004	SAN FERNAN	9738	7	TA	2952	
8	6	0	1	59.9518	1	13	18	36.667	38	56	17.18	4	9009	CURACAO	8689	4	EM	2606	
8	6	0	2	11.9519	1	13	25	31.244	41	58	23.16	4	9009	CURACAO	8689	10	EM	2607	
8	6	0	22	21.3283	1	11	56	42.257	83	10	58.91	4	9004	SAN FERNAN	9743	3	TA	2953	

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963 8 16	20 36 19.5126	1	5 22 43.365	83 18 35.93	9004 SAN FERNAN	9892	4 JV	2594
8 16	20 36 31.5127	1	4 10 19.365	82 43 48.82	9004 SAN FERNAN	9892	7 JV	2595
8 16	22 23 1.4599	1	13 34 42.676	77 51 23.49	9004 SAN FERNAN	9898	6 JV	2596
8 17	19 26 38.4465	1	2 50 59.818	-78 38 6.45	9003 WOOMERA	15408	4 KA	1629
8 17	19 26 44.4463	1	3 34 13.835	-79 20 24.16	9003 WOOMERA	15408	7 KA	2444
8 17	20 25 39.3639	1	4 24 26.413	82 50 31.72	9004 SAN FERNAN	9912	5 JV	2958
8 17	20 25 43.3640	1	4 1 55.958	82 34 55.11	9004 SAN FERNAN	9912	6 JV	2598
8 17	22 12 34.2227	1	14 34 38.195	80 25 50.85	9004 SAN FERNAN	9919	3 JV	2599
8 18	5 1 52.0169	1	12 48 56.335	84 52 9.36	9001 ORGAN PASS	11380	9 TA	1708
8 18	9 4 50.3040	1	9 42 41.020	-83 24 12.87	9011 VILLA DOLLO	10318	9 AM	2788
8 18	19 17 21.8100	1	9 14 28.414	-70 41 43.94	9003 WOOMERA	15426	4 KA	1631
8 18	19 17 29.8096	1	9 20 19.445	-69 3 34.99	9003 WOOMERA	15426	6 KA	1632
8 18	20 14 56.0004	1	3 47 32.402	82 29 1.95	9004 SAN FERNAN	9935	2 AC	1712
8 18	20 15 12.0005	1	2 36 16.358	80 49 7.50	9004 SAN FERNAN	9935	6 AC	1713
8 18	22 1 25.9398	1	14 7 4.383	76 0 10.38	9004 SAN FERNAN	9940	3 AC	1714
8 19	4 50 52.7154	1	13 22 45.277	82 12 9.67	9001 ORGAN PASS	11383	9 TA	2449
8 19	8 17 25.3055	1	3 55 34.160	80 41 6.70	9012 MAJI	10846	1 KA	1640
8 19	8 17 41.3059	1	3 22 0.058	79 16 23.91	9012 MAJI	10846	5 KA	1641
8 19	18 28 36.8953	1	13 47 30.038	79 35 34.44	9008 SHIRAZ	13589	5 AM	2823
8 19	18 28 44.8952	1	14 2 7.973	80 41 12.72	9008 SHIRAZ	13589	7 AM	2824
8 19	20 8 41.2201	1	23 56 6.498	41 17 54.70	9004 SAN FERNAN	9955	4 JW	2450
8 19	21 50 55.6323	1	15 3 24.833	76 51 41.85	9004 SAN FERNAN	9958	10 AC	1716
8 20	2 53 18.0104	1	3 42 42.803	77 51 52.11	9001 ORGAN PASS	11391	4 TA	1709
8 20	2 53 22.0104	1	3 31 33.234	77 35 55.61	9001 ORGAN PASS	11391	5 TA	1710
8 20	8 6 41.0855	1	3 18 25.155	81 40 26.64	9012 MAJI	10866	2 KA	1642
8 20	8 7 5.0858	1	2 31 22.041	79 10 39.09	9012 MAJI	10866	8 KA	1643
8 20	18 17 22.6594	1	13 35 3.334	74 31 20.83	9008 SHIRAZ	13608	4 AM	3698
8 20	18 17 38.6596	1	13 56 9.654	76 32 37.03	9008 SHIRAZ	13608	6 AM	2826
8 20	21 40 27.4698	1	16 17 21.767	76 18 0.83	9004 SAN FERNAN	9979	5 AC	1717
8 21	7 56 5.7283	1	2 11 16.070	81 39 0.17	9012 MAJI	10887	6 AM	2370
8 21	7 56 9.7285	1	2 3 59.363	81 10 41.04	9012 MAJI	10887	7 AM	2371
8 21	16 21 45.3691	1	1 21 24.139	69 1 30.63	9008 SHIRAZ	13624	6 FI	3988
8 21	16 21 49.3691	1	1 18 0.546	68 30 0.59	9008 SHIRAZ	13624	7 FI	2455
8 21	21 29 14.6230	1	15 9 26.814	71 35 33.07	9004 SAN FERNAN	10001	2 AC	1718
8 21	21 29 26.6234	1	15 40 17.849	72 34 58.87	9004 SAN FERNAN	10001	5 AC	2451
8 22	7 44 44.7637	1	3 15 38.114	86 36 6.25	9012 MAJI	10403	6 KA	2372
8 22	7 44 52.7637	1	2 28 40.283	85 50 58.57	9012 MAJI	10403	8 KA	2373
8 22	21 19 0.4871	1	16 39 57.768	70 0 46.82	9004 SAN FERNAN	10029	2 BM	1720
8 22	21 19 4.4872	1	16 51 12.717	70 0 8.83	9004 SAN FERNAN	10029	3 BM	1721
8 23	7 34 24.1763	1	0 5 13.968	84 36 57.85	9012 MAJI	10920	4 KA	2374
8 23	7 34 28.1764	1	0 2 31.769	84 2 24.00	9012 MAJI	10920	6 KA	2375
8 23	21 8 10.4713	1	16 26 49.351	66 0 59.15	9004 SAN FERNAN	10049	4 BM	2567
8 23	21 8 18.4713	1	16 46 14.452	65 53 47.78	9004 SAN FERNAN	10049	6 BM	2568
8 23	22 53 21.4508	1	15 43 40.226	20 51 53.18	9004 SAN FERNAN	10057	4 BM	2565
8 23	22 53 29.4510	1	15 48 20.939	20 25 58.60	9004 SAN FERNAN	10057	6 BM	2566

DATE Y M D	TIME (A-I)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.
	H	M	S		H	M	S	D	M	S				
1963 8 9	10	16	20.0776	1	22	8	56.848	20	59	47.00	9001	ORGAN PASS	11322	3 BM
8 9	11	55	39.6292	1	4	26	19.124	64	2	51.71	9012	MAUI	10737	3 KA
8 9	12	43	45.1860	1	0	25	6.702	39	34	56.92	9012	MAUI	10741	6 AM
8 9	21	50	45.2391	1	12	38	42.465	77	15	54.76	9004	SAN FERNAN	9832	4 KA
8 9	21	50	53.2391	1	12	34	47.004	78	52	1.47	9004	SAN FERNAN	9832	6 KA
8 9	22	7	6.7826	1	1	32	9.745	68	44	43.85	9008	SHIRAZ	13409	6 AM
8 10	6	12	47.1369	1	11	0	26.652	55	6	31.65	9012	MAUI	10746	1 KA
8 10	6	12	59.1370	1	10	58	38.559	56	59	55.41	9012	MAUI	10746	7 KA
8 10	6	37	39.2985	1	3	5	8.333	63	2	6.35	9010	JUPITER	10536	4 AC
8 10	6	37	47.2986	1	3	6	16.262	61	29	10.17	9010	JUPITER	10536	6 AC
8 10	8	24	54.1695	1	22	35	25.392	24	26	36.82	9010	JUPITER	10541	6 AC
8 10	8	24	58.1695	1	22	39	29.236	23	41	0.41	9010	JUPITER	10541	8 AC
8 10	11	44	46.7996	1	3	58	6.936	65	15	33.18	9012	MAUI	10754	3 KA
8 10	11	44	52.7998	1	3	57	24.266	64	19	5.08	9012	MAUI	10754	6 KA
8 10	20	40	30.5634	1	4	49	44.110	2	41	56.48	9003	WOOMERA	15318	5 KA
8 10	20	40	44.5632	1	5	11	9.967	-1	19	26.53	9003	WOOMERA	15318	12 KA
8 10	21	54	3.7409	1	18	31	34.393	76	12	36.91	9008	SHIRAZ	13428	6 TA
8 11	1	16	12.4396	1	19	7	6.814	71	4	43.80	9004	SAN FERNAN	9835	1 KA
8 11	1	16	24.4397	1	19	38	41.998	71	31	4.69	9004	SAN FERNAN	9835	4 KA
8 11	4	37	50.2288	1	4	40	30.254	70	55	48.27	9010	JUPITER	10551	5 FI
8 11	6	23	46.1964	1	16	36	49.499	83	21	4.22	9010	JUPITER	10553	6 NG
8 11	10	12	44.9429	1	23	51	8.153	-11	46	35.06	9007	AREQUIPA	9744	6 BM
8 11	21	41	49.7341	1	16	38	51.584	65	26	53.01	9008	SHIRAZ	13446	3 KA
8 11	21	42	5.7342	1	16	53	23.524	66	55	49.09	9008	SHIRAZ	13446	7 KA
8 12	4	27	54.4997	1	3	46	3.645	65	15	57.07	9010	JUPITER	10563	7 NG
8 12	8	16	40.0470	1	4	41	44.728	21	49	50.35	9007	AREQUIPA	9752	3 BM
8 12	8	17	0.0470	1	4	52	17.196	18	14	1.01	9007	AREQUIPA	9752	8 BM
8 13	4	16	35.3250	1	3	44	4.455	68	49	19.15	9010	JUPITER	10583	6 NG
8 13	4	16	55.3244	1	3	33	54.198	66	51	31.93	9010	JUPITER	10583	8 NG
8 13	6	1	6.0015	1	15	57	40.465	72	0	20.80	9010	JUPITER	10592	5 FI
8 13	6	1	14.0013	1	16	5	22.637	72	51	4.35	9010	JUPITER	10592	6 FI
8 13	8	36	2719	1	5	46	19.809	-8	43	8.24	9007	AREQUIPA	9767	7 FI
8 14	20	57	34.9686	1	8	0	24.792	83	17	26.52	9004	SAN FERNAN	9853	3 NG
8 14	20	57	46.9690	1	6	42	1.957	84	1	5.81	9004	SAN FERNAN	9853	6 NG
8 14	22	45	46.5613	1	23	28	38.712	87	59	52.89	9004	SAN FERNAN	9859	2 NG
8 14	22	45	54.5615	1	0	8	4.263	86	27	42.15	9004	SAN FERNAN	9859	3 NG
8 15	9	32	50.6150	1	21	56	44.659	-76	50	2.64	9007	AREQUIPA	9807	4 KA
8 15	9	32	58.6150	1	21	55	57.731	-78	38	32.56	9007	AREQUIPA	9807	6 KA
8 15	19	11	59.0019	1	11	4	5.954	83	7	8.11	9008	SHIRAZ	13512	5 KA
8 15	20	46	37.7742	1	8	27	51.002	81	54	59.14	9004	SAN FERNAN	9877	5 SC
8 15	20	46	49.7743	1	7	27	51.670	83	5	50.45	9004	SAN FERNAN	9877	8 SC
8 15	22	34	49.2794	1	18	46	37.023	87	49	37.57	9004	SAN FERNAN	9879	6 SC
8 16	5	23	24.0775	1	10	59	16.866	84	12	37.46	9001	ORGAN PASS	11356	4 FI
8 16	7	9	8.9141	1	16	3	32.921	51	42	47.48	9001	ORGAN PASS	11361	2 FI
8 16	19	1	35.0464	1	10	37	39.051	86	47	5.60	9008	SHIRAZ	13530	3 AM

DATE Y M D	TIME (A-1) H M S			RMS MS	R.A.-(1950.0) H M S			DECL.-(1950.0) D M S			STATION	FRAME NO.	MS	OBS.NO.
	H	M	S		H	M	S	D	M	S				
1963	9	2	7 35 12.0055	1	15 36 5.375			-15 42 39.06	4		9012 MAJI	11100	6 BA	3509
	9	2	7 35 20.0055	1	15 38 47.625			-16 38 18.57	4		9012 MAJI	11100	8 BA	3510
	9	2	15 59 52.9809	1	15 50 21.136			-1 2 50.22	4		9008 SHIRAZ	13869	2 HC	3777
	9	2	15 59 56.9809	1	15 53 18.688			-1 41 4.99	4		9008 SHIRAZ	13869	4 HC	3778
	9	3	5 38 21.1578	1	17 22 53.198			13 5 33.89	4		9012 MAJI	11119	4 BA	3511
	9	3	5 38 29.1577	1	17 29 47.173			11 16 0.18	4		9012 MAJI	11119	8 BA	3512
	9	4	0 24 40.2316	1	16 25 29.866			2 7 16.86	4		9009 CJRACAD	8962	7 BA	3498
	9	4	0 24 44.2318	1	16 28 8.119			1 19 8.24	4		9009 CJRACAD	8962	9 BA	3499
	9	4	15 42 3.3724	1	17 26 15.127			-37 10 51.36	4		9008 SHIRAZ	13912	5 HC	3782
	9	4	15 42 7.3726	1	17 28 22.463			-37 31 5.48	4		9008 SHIRAZ	13912	6 HC	3783
	9	5	17 23 31.7048	1	21 24 37.639			24 40 37.71	4		9002 OLIFANTS	14361	7 SU	4144
	9	6	10 25 8.6807	1	20 29 46.143			29 31 54.86	4		9003 WOODMERA	15698	2 VD	2671
	9	6	17 9 21.7194	1	19 34 49.213			43 58 27.57	4		9002 OLIFANTS	14376	6 SU	4145
	9	6	18 56 41.3201	1	17 3 26.582			9 42 2.63	4		9002 OLIFANTS	14380	16 SU	4146
	9	7	10 16 21.3808	1	21 13 0.422			12 34 13.75	4		9003 WOODMERA	15717	9 VD	2672
	9	7	22 48 42.5873	1	19 42 17.203			6 18 31.15	4		9007 AREQUIPA	10032	8 PL	4564
	9	7	22 48 58.5871	1	19 52 53.195			3 9 17.94	4		9007 AREQUIPA	10032	10 PL	4565
	9	7	22 51 29.0733	1	19 30 15.931			25 7 54.20	4		9011 VILLA DOLO	10505	4 PG	3532
	9	7	22 51 33.0733	1	19 32 28.788			24 41 36.34	4		9011 VILLA DOLO	10505	5 PG	3533
	9	8	10 7 29.3599	1	22 3 35.864			-5 53 10.58	4		9003 WOODMERA	15731	8 VD	2673
	9	8	18 38 4.8097	1	17 25 24.516			-33 27 36.89	4		9002 OLIFANTS	14416	6 SU	4147
	9	8	18 38 12.8106	1	17 30 11.161			-35 17 23.77	4		9002 OLIFANTS	14416	8 SU	4148
	9	8	19 7 22.9397	1	3 13 12.979			-42 25 13.25	4		9003 WOODMERA	15745	8 PL	4570
	9	8	23 37 46.9744	1	19 8 29.684			1 4 47.78	4		9007 AREQUIPA	10047	4 PL	4566
	9	8	23 38 10.9736	1	19 25 38.443			-3 54 40.98	4		9007 AREQUIPA	10047	10 PL	4567
	9	9	1 24 3.1197	1	15 17 43.441			-32 21 51.68	4		9007 AREQUIPA	10050	8 PL	4568
	9	9	1 24 11.1198	1	15 18 53.344			-33 40 13.52	4		9007 AREQUIPA	10050	10 PL	4569
	9	9	1 56 7.6369	1	7 26 39.104			-48 55 9.20	4		9002 OLIFANTS	14425	5 SU	4149
	9	9	9 58 36.8977	1	23 0 15.754			-20 55 20.51	4		9003 WOODMERA	15755	4 PL	4571
	9	9	9 59 0.8969	1	23 13 10.569			-22 25 6.78	4		9003 WOODMERA	15755	10 PL	4572
	9	9	18 29 21.9955	1	18 44 33.176			-64 39 48.22	4		9002 OLIFANTS	14432	4 SU	4150
	9	9	18 29 25.9952	1	18 50 40.239			-65 19 55.08	4		9002 OLIFANTS	14432	5 SU	4151
	9	9	23 29 8.1716	1	20 19 54.014			-30 39 17.60	4		9007 AREQUIPA	10057	5 HC	3773
	9	9	23 29 12.1716	1	20 23 5.586			-31 12 45.28	4		9007 AREQUIPA	10057	6 HC	3774
	9	10	1 14 47.9866	1	15 5 41.692			-49 39 24.74	4		9007 AREQUIPA	10060	2 HC	3775
	9	10	1 14 59.9870	1	15 6 59.026			-51 37 2.41	4		9007 AREQUIPA	10060	5 HC	3776
	9	10	11 31 54.4322	1	18 12 21.507			-63 36 31.64	4		9003 WOODMERA	15778	7 VD	2652
	9	13	12 45 11.1015	1	14 26 17.493			-53 35 56.19	4		9003 WOODMERA	15832	7 VD	2663
	9	14	0 40 36.9473	1	3 5 39.067			-70 20 15.68	4		9011 VILLA DOLO	10519	4 PG	3534
	9	14	0 40 44.9471	1	3 7 5.362			-69 14 42.14	4		9011 VILLA DOLO	10519	5 PG	3535
	9	14	2 22 57.2467	1	14 23 0.549			-55 30 34.35	4		9011 VILLA DOLO	10524	5 PG	3536
	9	14	2 23 5.2469	1	14 20 51.915			-56 31 6.38	4		9011 VILLA DOLO	10524	6 PG	3537
	9	15	2 11 52.6918	1	14 12 55.890			-54 19 47.27	4		9011 VILLA DOLO	10546	4 PG	3538
	9	15	12 26 20.2394	1	11 51 9.745			-74 59 59.68	4		9003 WOODMERA	15875	9 VD	2654
	9	16	0 19 19.4981	1	3 14 49.694			-67 35 16.17	4		9011 VILLA DOLO	10557	6 PG	3539

DATE Y M D	TIME (A-I)			RMS MS	R.A. (1950.0)			DECL. (1950.0)			STATION	FRAME NO.	MS	OBS. NO.
	H	M	S		H	M	S	D	M	S				
1963 8 24	7	22	56.3480	1	15	12	27.995	88	16	36.07	9012 MAUI	10930	5 AC	2387
8 24	7	22	58.3480	1	15	46	17.360	88	23	45.54	9012 MAUI	10930	6 AC	2388
8 24	20	57	26.2883	1	16	26	10.794	61	27	50.35	9004 SAN FERNAN	10075	3 JW	2946
8 24	20	57	30.2885	1	16	34	41.497	61	20	8.36	9004 SAN FERNAN	10075	4 JW	2564
8 25	7	12	40.6540	1	19	33	19.271	84	53	3.87	9012 MAUI	10947	2 AC	2389
8 25	20	46	38.6727	1	16	16	24.211	56	27	4.35	9004 SAN FERNAN	10097	4 AM	5004
8 26	3	36	10.5911	1	16	47	0.972	62	15	37.09	9001 ORGAN PASS	11446	10 TA	1711
8 26	3	40	54.5188	1	15	58	40.054	20	41	4.46	9010 JUPITER	10722	8 FI	1319
8 26	7	1	59.5963	1	18	37	49.615	82	7	8.83	9012 MAUI	10965	4 JV	2397
8 26	15	31	8.8318	1	14	53	11.155	55	31	5.84	9006 NAINI TAL	8452	3 TA	1707
8 26	17	13	37.5025	1	15	44	30.246	57	11	38.78	9008 SHIRAZ	13703	2 FI	905
8 26	17	13	41.5023	1	15	50	34.234	57	7	7.53	9008 SHIRAZ	13703	3 FI	44
8 26	18	59	25.1556	1	15	46	20.429	10	54	24.56	9008 SHIRAZ	13706	3 FI	903
8 26	22	21	51.6647	1	15	52	46.961	6	21	41.50	9004 SAN FERNAN	10126	8 AM	2561
8 27	6	51	5.4526	1	17	17	58.529	79	28	40.16	9012 MAUI	10977	2 AC	2390
8 27	18	48	25.9100	1	15	33	27.664	8	25	15.89	9008 SHIRAZ	13726	1 FI	2454
8 27	20	26	22.4333	1	17	47	13.330	34	41	37.27	9004 SAN FERNAN	10145	7 AM	9366
8 27	22	11	9.5185	1	15	46	56.842	2	31	45.73	9004 SAN FERNAN	10153	3 KA	2559
8 28	1	33	54.9910	1	17	49	20.017	62	11	21.54	9010 JUPITER	10756	4 FI	1318
8 28	20	15	28.6505	1	17	18	24.462	29	2	53.15	9004 SAN FERNAN	10177	4 AM	2553
8 29	1	23	35.8366	1	18	2	34.059	52	9	32.87	9010 JUPITER	10772	4 FI	2453
8 29	1	23	43.8369	1	18	13	45.375	50	44	46.52	9010 JUPITER	10772	6 FI	1317
8 29	1	26	44.1723	1	16	41	46.418	63	54	47.53	9009 CURACAO	8932	5 AM	2367
8 29	1	26	48.1728	1	16	46	49.918	63	45	32.67	9009 CURACAO	8932	6 AM	2358
8 29	3	8	53.0855	1	15	41	6.103	5	57	21.91	9010 JUPITER	10781	4 FI	1315
8 29	3	9	5.0868	1	15	46	26.672	4	45	29.09	9010 JUPITER	10781	7 FI	1316
8 29	6	30	27.8349	1	18	11	59.849	67	6	26.65	9012 MAUI	10999	5 JV	2391
8 29	20	4	50.2638	1	17	8	27.945	20	40	45.96	9004 SAN FERNAN	10199	4 BM	2302
8 29	20	4	56.2637	1	17	14	53.672	19	37	22.76	9004 SAN FERNAN	10199	7 BM	2303
8 30	1	12	36.5319	1	17	15	45.802	47	26	56.92	9010 JUPITER	10792	8 FI	1314
8 30	6	19	34.8456	1	17	23	28.608	62	53	35.93	9012 MAUI	11021	3 JV	2392
8 30	8	4	50.7940	1	15	13	33.013	12	32	39.23	9012 MAUI	11028	3 JV	2393
8 30	8	4	54.7940	1	15	15	7.275	12	11	20.63	9012 MAUI	11028	4 JV	2394
8 31	1	4	58.4279	1	15	47	19.323	53	25	38.37	9009 CURACAO	8953	2 AM	2369
8 31	6	9	33.8186	1	17	53	45.045	50	27	50.59	9012 MAUI	11044	2 JV	2955
8 31	6	9	35.8187	1	17	56	14.766	50	6	44.46	9012 MAUI	11044	3 JV	2395
8 31	7	55	30.8169	1	15	36	11.416	- 0	17	22.56	9012 MAUI	11048	1 JV	2396
9 1	0	55	7.6218	1	16	16	50.289	42	52	37.07	9009 CURACAO	8958	7 BA	3497
9 1	2	39	0.8368	1	16	4	49.402	-20	3	2.34	9010 JUPITER	10861	8 BA	3502
9 1	5	59	21.5664	1	17	57	41.403	36	41	47.61	9012 MAUI	11066	5 BA	3503
9 1	5	59	27.5663	1	18	3	50.587	35	23	25.33	9012 MAUI	11066	8 BA	3504
9 1	7	45	14.1269	1	15	34	28.260	- 7	23	28.22	9012 MAUI	11070	6 BA	3505
9 1	7	45	18.1269	1	15	35	54.237	- 7	51	8.01	9012 MAUI	11070	8 BA	3506
9 2	5	49	13.3109	1	18	0	19.281	20	1	15.16	9012 MAUI	11095	4 BA	3507
9 2	5	49	19.3110	1	18	5	33.540	18	36	16.51	9012 MAUI	11095	7 BA	3508

DATE Y M D	TIME (A-1) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	STATION	FRAME NO.	MS	OBS. NO.
1963	9 16	0 19 27.4978	3 14 28.826	-66 34 9.72	9011 VILLA DOLO	10557	7 PG	3540
	9 16	2 0 54.2055	14 1 45.928	-53 58 25.23	9011 VILLA DOLO	10562	5 PG	3541
	9 16	2 2 41.5738	13 19 1.760	-67 6 35.43	9011 VILLA DOLO	10563	2 PG	3542
	9 16	2 2 53.5738	13 9 50.592	-68 34 57.70	9011 VILLA DOLO	10563	5 PG	3543
	9 17	0 8 21.0851	3 16 24.877	-68 34 7.06	9011 VILLA DOLO	10582	5 PG	3544
	9 17	0 8 29.0845	3 15 9.051	-67 31 42.30	9011 VILLA DOLO	10582	6 PG	3545
	9 17	1 50 11.3076	13 47 45.436	-55 27 43.72	9011 VILLA DOLO	10586	5 PG	3687
	9 17	1 50 19.3076	13 45 53.572	-56 23 33.43	9011 VILLA DOLO	10586	6 PG	3547
	9 17	1 52 15.7312	12 45 43.456	-70 26 37.71	9011 VILLA DOLO	10587	3 PG	3548
	9 17	1 52 19.7312	12 41 37.963	-70 54 33.30	9011 VILLA DOLO	10587	4 PG	3549
	9 17	9 13 39.9294	0 44 54.735	47 48 15.24	9009 CJRACAO	9044	4 BA	3500
	9 17	9 13 43.9296	0 47 45.961	49 48 55.56	9009 CJRACAO	9044	6 BA	3501
	9 17	12 2 21.6405	13 20 45.403	-59 44 50.52	9003 WOOMERA	15922	4 VD	2937
	9 17	12 2 33.6407	13 16 22.759	-61 10 44.00	9003 WOOMERA	15922	7 VD	2666
	9 18	22 41 35.9613	6 34 45.583	-20 37 5.61	9006 NAINI TAL	8560	7 PL	4560
	9 18	22 41 37.9614	6 37 39.498	-20 0 25.88	9006 NAINI TAL	8560	8 PL	4561
	9 19	0 23 52.0710	7 6 26.590	-16 26 3.71	9008 SHIRAZ	14154	3 HC	3779
	9 19	0 23 59.0710	7 13 59.639	-14 41 43.69	9008 SHIRAZ	14154	6 HC	4955
	9 19	9 58 47.7157	2 48 19.943	-64 39 43.55	9003 WOOMERA	15969	10 VD	2657
	9 19	22 32 8.6122	8 7 56.272	10 9 45.93	9006 NAINI TAL	8574	3 PL	4562
	9 19	22 32 14.6123	8 15 31.065	11 33 39.65	9006 NAINI TAL	8574	6 PL	5820
	9 20	0 13 51.1946	7 47 10.175	-28 33 39.41	9008 SHIRAZ	14171	6 HC	3781
	9 20	23 20 26.0743	12 5 10.451	-68 21 51.60	9011 VILLA DOLO	10673	2 PG	3458
	9 20	23 20 30.0741	12 2 56.490	-68 57 46.96	9011 VILLA DOLO	10673	3 PG	3469
	9 21	12 0 18.0944	23 33 20.810	47 28 48.33	9001 ORGAN PASS	11724	3 SU	4140
	9 21	23 9 56.7490	11 27 45.610	-71 52 20.63	9011 VILLA DOLO	10689	2 PG	3470
	9 21	23 10 8.7488	11 16 19.595	-73 32 21.09	9011 VILLA DOLO	10689	5 PG	3471
	9 22	0 58 35.9111	11 8 20.519	-76 42 20.31	9011 VILLA DOLO	10696	4 PG	3472
	9 22	11 8 29.0410	12 14 51.532	-64 51 24.36	9003 WOOMERA	16014	5 VD	2668
	9 22	11 8 33.0407	12 13 4.452	-65 18 44.46	9003 WOOMERA	16014	6 VD	2669
	9 22	11 13 55.3015	3 49 31.105	-63 2 8.53	9003 WOOMERA	16015	4 VD	2670
	9 22	11 50 3.5797	22 18 47.150	62 54 4.19	9001 ORGAN PASS	11737	7 SU	4141
	9 22	11 50 5.5797	22 15 12.945	63 46 4.46	9001 ORGAN PASS	11737	8 SU	4142
	9 23	10 57 30.7618	12 8 35.529	-64 36 32.32	9003 WOOMERA	16030	3 LD	8276
	9 23	10 57 46.7618	12 1 37.864	-66 25 57.48	9003 WOOMERA	16030	7 LD	8277
	9 23	11 3 21.8205	3 24 48.773	-60 14 13.00	9003 WOOMERA	16031	7 LD	8278
	9 24	10 46 35.6152	12 1 35.060	-64 46 32.22	9003 WOOMERA	16044	4 LD	8279
	9 24	10 46 47.6148	11 56 52.279	-66 8 27.55	9003 WOOMERA	16044	7 LD	8280
	9 24	11 29 5.4631	19 40 5.766	70 1 33.89	9001 ORGAN PASS	11758	6 SU	4143
	9 24	12 35 14.4315	15 9 10.754	-66 54 45.54	9003 WOOMERA	16052	5 LD	8281
	9 24	12 35 42.4312	15 24 4.119	-70 21 25.06	9003 WOOMERA	16052	12 LD	8282
	9 25	10 35 19.0706	12 1 38.371	-62 32 59.92	9003 WOOMERA	16071	4 LD	8283
	9 25	10 35 47.0699	11 53 9.647	-65 41 54.41	9003 WOOMERA	16071	11 LD	8284
	9 25	10 41 54.5287	2 43 14.161	-56 50 59.41	9003 WOOMERA	16073	7 LD	35
	9 25	10 41 58.5295	2 42 23.526	-56 16 36.80	9003 WOOMERA	16073	8 LD	9360

DATE Y M D	TIME (A-I) H M S	RMS MS	R.A. (1950.0) H M S	DECL. (1950.0) D M S	RMS S	STATION	FRAME NO.	MS	OBS. NO.
1963	9 25	12 24 17.6552	15 17 47.574	-65 22 46.86	4	9003 WOOMERA	16079	6 LD	8286
	9 25	12 24 25.6544	15 22 28.857	-66 16 10.93	4	9003 WOOMERA	16079	8 LD	36
	9 26	10 24 27.1221	11 54 57.031	-63 4 25.57	4	9003 WOOMERA	16095	5 LD	8287
	9 26	10 24 39.1221	11 51 57.125	-64 25 5.64	4	9003 WOOMERA	16095	8 LD	8288
	9 26	12 13 57.6067	15 54 8.384	-67 23 33.42	4	9003 WOOMERA	16100	6 LD	8289
	9 26	12 14 13.6063	16 10 54.286	-69 5 58.26	4	9003 WOOMERA	16100	10 LD	8290
	9 26	19 1 24.2942	13 27 33.558	-76 12 9.06	4	9002 OLIFANTS	14781	7 SU	4152
	9 26	19 2 41.2147	12 47 17.962	-86 20 50.58	4	9002 OLIFANTS	14782	4 SU	4153
	9 26	19 2 53.2141	11 52 36.149	-87 59 35.72	4	9002 OLIFANTS	14782	7 SU	4154
	9 27	18 52 7.4541	17 23 58.449	-88 18 20.24	4	9002 OLIFANTS	14807	4 PG	3473
	9 27	18 52 23.4543	22 51 31.184	-87 51 31.51	4	9002 OLIFANTS	14807	6 PG	3474
	9 28	18 42 11.1161	23 40 28.367	-80 32 10.54	4	9002 OLIFANTS	14835	7 PG	3475
	9 28	18 42 19.1158	23 54 57.520	-79 12 3.62	4	9002 OLIFANTS	14835	8 PG	3476
	9 29	9 51 51.8811	11 41 47.929	-64 36 21.98	4	9003 WOOMERA	16117	5 LD	712
	9 29	9 52 7.8811	11 39 34.592	-66 27 35.87	4	9003 WOOMERA	16117	9 LD	8292
	9 29	11 43 36.9347	20 0 31.406	-59 49 48.02	4	9003 WOOMERA	16123	8 PL	4573
	9 29	11 43 40.9347	20 7 50.008	-59 26 30.42	4	9003 WOOMERA	16123	10 PL	4574
	9 30	9 43 16.7457	10 33 7.191	-82 49 54.57	4	9003 WOOMERA	16149	5 PL	4575
	9 30	9 43 36.7452	9 23 46.692	-85 23 43.60	4	9003 WOOMERA	16149	8 PL	4576
	9 30	11 32 33.8523	19 25 6.657	-54 39 25.23	4	9003 WOOMERA	16154	4 PL	4577
	9 30	11 32 41.8521	19 37 50.740	-53 54 45.05	4	9003 WOOMERA	16154	8 PL	4578