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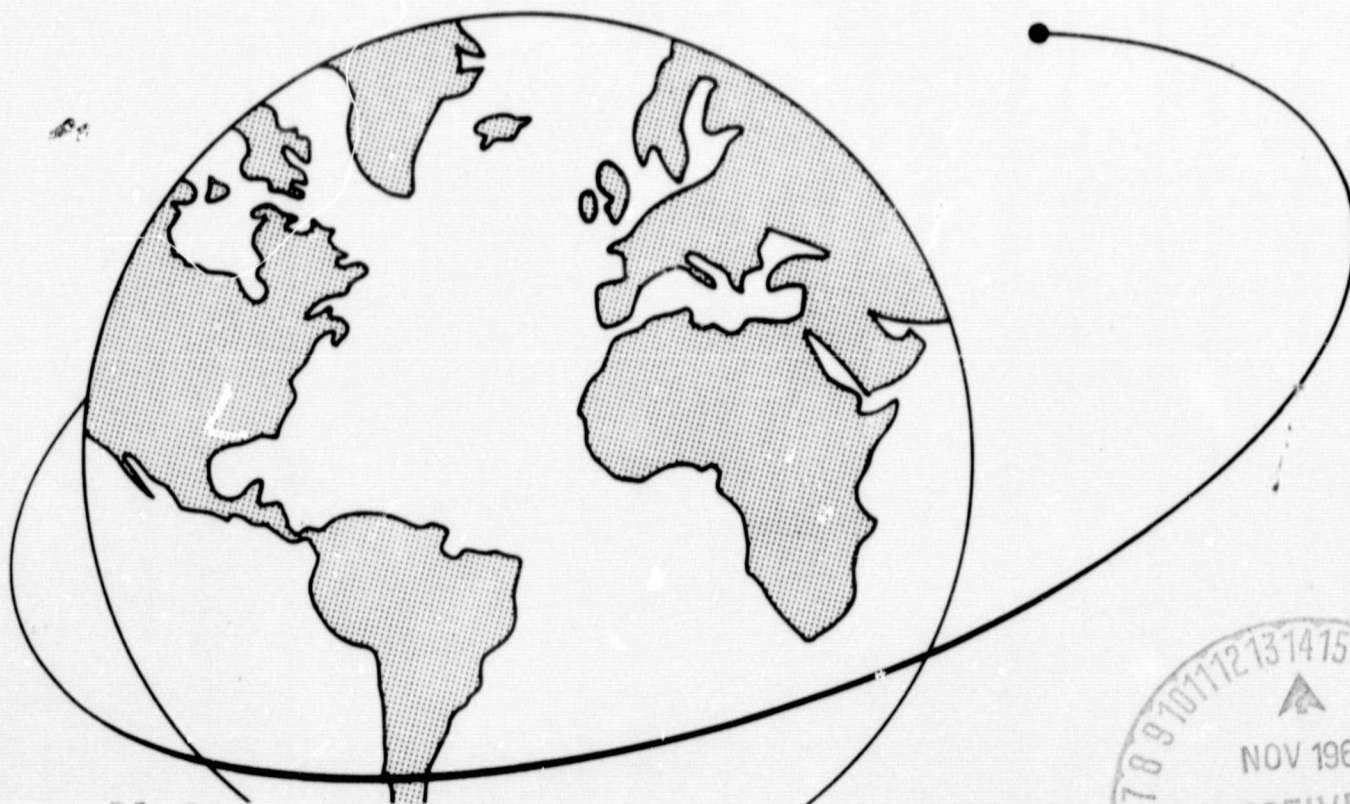
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OPTICAL SIMULTANEOUS OBSERVATIONS

A. GIRNIUS and W. L. JOUGHIN



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OPTICAL SYNTHETIC SIMULTANEOUS OBSERVATIONS
BETWEEN BAKER-NUNN CAMERA STATIONS

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ABSTRACT

From the time-overlapping sequences of precisely reduced simultaneous satellite observations made by the Baker-Nunn camera, directions were derived from the participating stations to single synthesized satellite positions. To determine these synthetic observations, we used an auxiliary coordinate system to avoid computational difficulties for observations of satellites close to the celestial pole. A least-squares fitting of the specified degree polynomial and an interpolation for the median overlapping time (T_q) were made. Synthetic observations, reduced and corrected for the effects of planetary and diurnal aberrations, polar motion, and parallactic refraction, were converted to the terrestrial coordinate system and are expressed in the form of direction cosines.

The angular satellite velocity (ω), track angle (ϕ), and the standard deviations along and across track (σ_ξ, σ_η) were derived; the latest ones, combined with time uncertainties (σ_t), were used as one low-quality observation rejection criterion.

RÉSUMÉ

A partir de séries, se chevauchant dans le temps, d'observations simultanées et précisément réduites de satellites prises par la caméra Baker-Nunn, on a déduit les directions joignant les stations participantes aux positions uniques synthétisées du satellite. Pour déterminer ces observations synthétiques, nous avons utilisé un système de coordonnées auxiliaires afin d'éviter des difficultés de calcul, dans le cas d'observations de satellites proches du pôle céleste. On a réalisé la correspondance avec un polynôme de degré spécifié par la méthode des moindres carrés, et on a fait une interpolation pour déterminer le milieu du temps de recouvrement (T_q). Les observations synthétiques, réduites et corrigées pour les effets d'aberrations planétaires et diurnes, le mouvement polaire et la réfraction parallactique, furent converties dans le système de coordonnées terrestres, et exprimées sous forme de cosinus directeurs.

La vitesse angulaire du satellite (ω), l'angle de tracking (ϕ) et les écarts standards longitudinaux et transversaux (σ_ξ, σ_η) furent dérivés. Ces derniers, combinés avec les incertitudes sur le temps (σ_t) furent utilisés comme critères d'élimination des observations de mauvaise qualité.

КОНСПЕКТ

Из перекрывающихся по времени рядов точно обработанных одновременных наблюдений спутников, проведенных с помощью Бэкер-Нунн камер, были выведены направления из участвующих станций для отбора синтезированных спутниковых положений. Для определения этих синтетических наблюдений мы употребляли вспомогательную систему координат для избежания расчетных осложнений для наблюдений спутников поблизости с небесным полюсом. Пригонка, методом наименьших квадратов, многочлена данной степени и интерполяция для срединно перекрывающегося времени (T_q) были сделаны. Синтетические наблюдения, обработанные и исправленные за эффекты планетарных и дневных аббераций, полярного движения и параллактической рефракции, были преобразованы в земную координатную систему и выражены в форме направляющих косинусов.

Спутниковая угловая скорость (ω), угол траектории (ϕ) и стандартные отклонения вдоль и поперек траектории (σ_ξ , σ_η) были выведены; последние, комбинированные с неуверенностями по времени (σ_t) употреблялись как критерий браковки наблюдений низкого качества.

OPTICAL SYNTHETIC SIMULTANEOUS OBSERVATIONS BETWEEN BAKER-NUNN CAMERA STATIONS

A. Girnius and W. L. Joughin

In this report we discuss synthetic simultaneous observations made from the Baker-Nunn stations between June 1961 and October 1965. A synthetic simultaneous observation is derived, through least-squares polynomial fitting and interpolation, from sequences of several precisely reduced observations from two or more stations overlapping in time. The satellites used for the observations are listed in Table 1.

Synthetic observations are expressed by the direction cosines in the terrestrial coordinate system. The synthetic observations are presented in Table 2. They are utilized in geometric satellite geodesy for the determination of the directions between observing stations; the directions are then used for the orientation of the earth model in dynamical geodesy.

Simultaneous artificial-satellite observations by the SAO Baker-Nunn camera stations were started in June 1961. The first results of this method were presented by Veis (1963). Greater emphasis was placed on simultaneous observations during the fall of 1964; Aardoom, Girnius, and Veis (1965) reported those results based on 615 synthetic observation pairs. For the 1966 Smithsonian Institution Standard Earth solution (see Lundquist and Veis, 1966), 1655 synthetic observation pairs were used.

The synthetic simultaneous observations presented here are derived mainly from the precisely reduced observations published by Wells (1965). The Photoreduction Division of SAO measured films (with two-screw Mann

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comparators), checked the measured positions, and determined the overlap of the simultaneous observations. For details of precise reduction and expected accuracy, see Haefner and Martin (1966).

We obtain the station-satellite directions, expressed as right ascension and declination versus atomic time A. S., at intervals of 2, 4, 8, or 16 sec. The time (T_q) of the center of the overlap interval for the two stations (Figure 1) is the time for the interpolated synthetic observation. The corresponding interpolated coordinates α_q and δ_q are obtained from least-squares-fitted polynomials to the original data. The interpolation, however, is performed in a local reference system (ξ, η) oriented approximately along and across track so as not to be affected by the convergence of the meridian (Figure 2). A minimum of 4 and a maximum of 10 independent observations from each station have been used for the interpolation: A sequence of 7 frames was optimum.

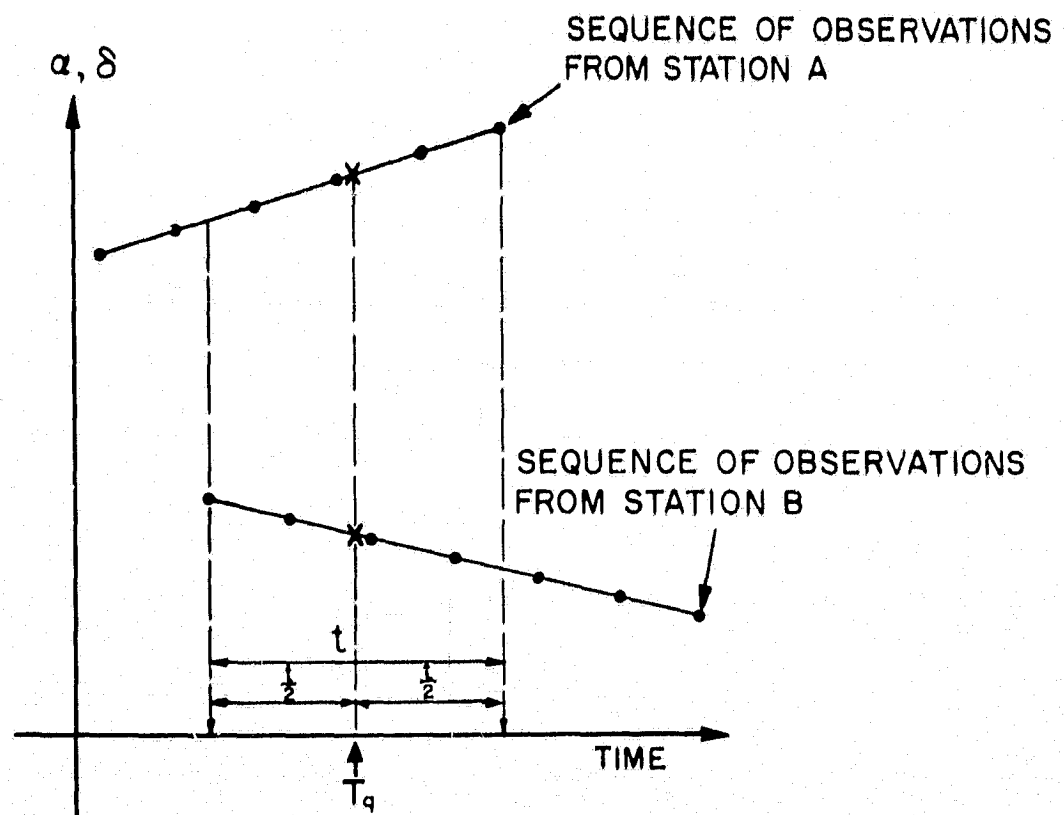


Figure 1. Interpolation of synthetic simultaneous observation between stations A and B for time T_q .

The effect of the annual aberration has already been taken into account, but not the effect of the diurnal aberration. Since station velocity vectors have invariable directions with respect to a fixed-earth system of reference, diurnal aberration systematically affects the final directions of the simultaneous observations; therefore, α_q and δ_q are corrected for diurnal aberration:

$$(\alpha' - \alpha) = k \cdot \cos \phi \cos t \sec \delta_q ,$$

$$(\delta' - \delta) = k \cdot \cos \phi \sin t \sin \delta_q ,$$

where

α, δ = geometric direction ,

α', δ' = apparent direction .

The value of k used here is 0.320 arcsec.

Before the final rotation of the synthetic directions to the terrestrial system, corrections are made for aberrational effects (caused by the velocity of the satellite) and for parallactic refraction (the difference between the amount of refraction of the stars and the satellite at the finite distance).

Reduced and corrected as described above, synthetic directions are true geometric directions, referred to the terrestrial coordinate system in which the origin is at the center of mass of the earth; the z axis is directed toward the mean terrestrial north pole of 1900-1905, as defined by the International Polar Motion Service (IPMS); the x^1 axis is on the mean terrestrial equator of 1900-1905 and at $73^\circ 02' 55''.9$ east of the meridian of the U.S. Naval Observatory (Veis, 1966, p. 16). The coordinates of the instantaneous pole are given in Table 3, and their graphical representation, in Figure 3.

The time of observation is given in the A.S system. The timing accuracy depends on the stability of the station clock and on the reception of the time signals. Uncertainty in time varies from ± 0.3 msec to ± 5 msec.

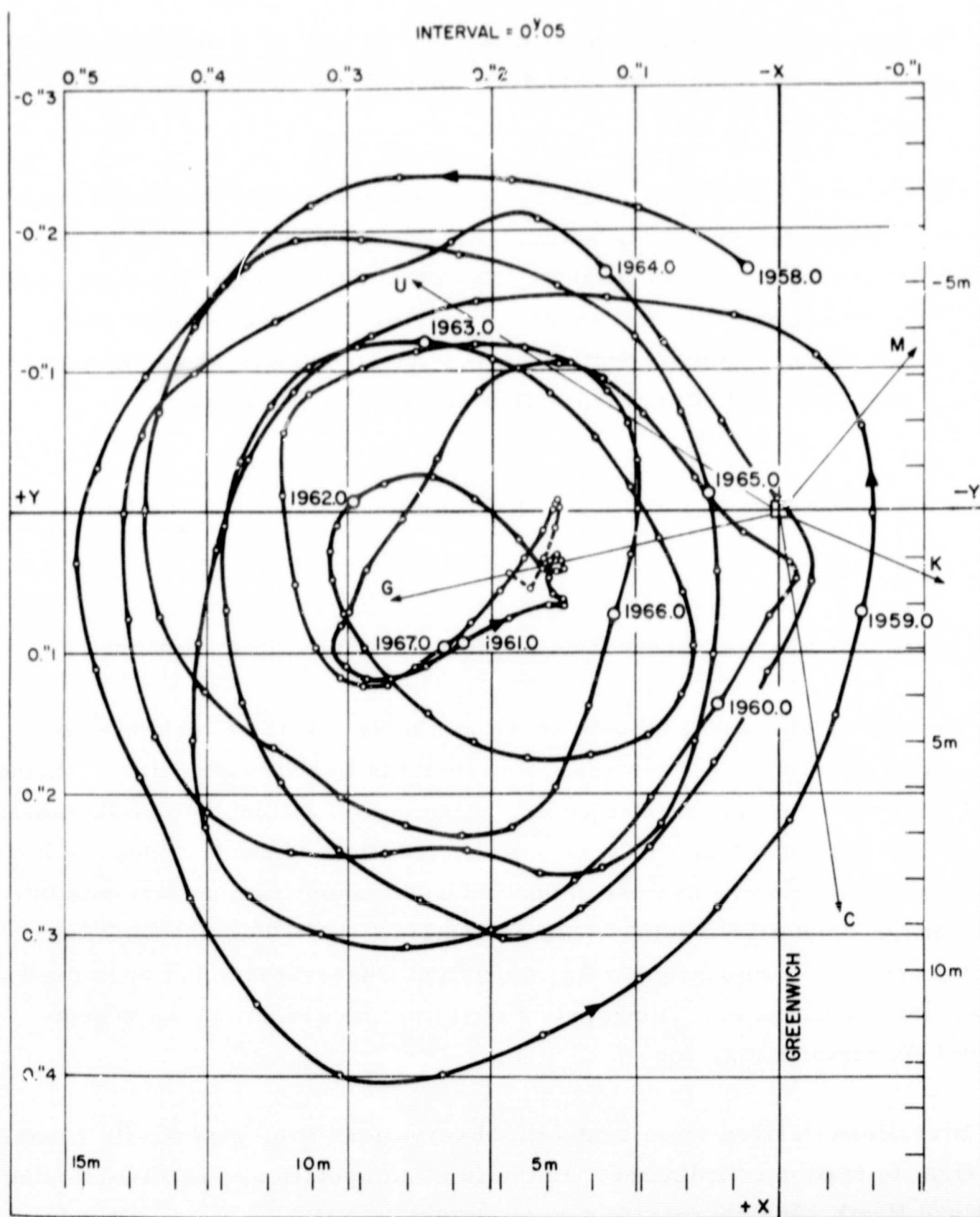


Figure 3. Orbit of instantaneous pole at mean North Pole 1900-1905.
IPMS 1958.0-1967.6.

The difference between atomic time A.S and UT1 is shown in Table 4. The time differences are given for MJD; Table 5 shows the MJD for the beginning of each month.

The accuracy of synthetic observations depends mainly on the accuracy of the precise reduction and is estimated from the variances, one along track (σ_{ξ}^2), the other across track (σ_{η}^2), as obtained from the least-squares polynomial fitting and the interpolation in the auxiliary coordinate system ξ and η . If we take into account an uncertainty in time (σ_t), the variances in along track (a^2) and across track (b^2) become, respectively,

$$\begin{aligned} a^2 &= \sigma_{\xi}^2 + \sigma_t^2 \omega^2 \\ b^2 &= \sigma_{\eta}^2 \end{aligned}$$

where ω is the apparent topocentric angular velocity of the satellite.

The values of a and b (above) serve as the rejection criteria of low-quality observations. All synthetic observations in which a or b were found to be 2 arcsec or more were rejected. Also, observations before the observation date of September 1, 1962, have to be used with caution, since the star positions used for their precise reduction were taken from a large number of inhomogeneous star catalogs. Since September 1, 1962, the SAO Star Catalog (see Staff, Smithsonian Astrophysical Observatory) has been used for all star coordinates. Appropriate systematic corrections have been applied (Haramundanis, 1966).

Directions derived from synthetic observations are, practically speaking, invariant to station coordinates. In the final computation, the SAO-adopted Standard Earth 1966 coordinate system, given in Table 6, was used. These coordinates have been employed in the direction program to compute the approximate ranges from station to satellite; those ranges are used in the determination of the correction values for aberration and parallactic refraction.

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Table 1. Satellites used for simultaneous observations

Satellite		Date launched	Shape	Weight (kg)	Size (m)	i (deg)	P (min)	Ha (km)	Hp (km)	e
Designation	Name									
60 09 2	Echo 1 Rocket	August 12	Cylinder	23	$0.5\phi^* \times 1.2$	47	118	1684	1502	0.011
60 13 1	Courier 1B	October 4	Sphere	230	1.3ϕ	28	106	1184	946	0.015
61 04 1	Explorer 9	February 16	Infl. Sphere [†]	7	3.7ϕ	39	117	2506	632	0.118
61 28 1	Midas 4	October 21	Cylinder	1800?	$1.5\phi \times 9$	96	166	3756	3496	0.013
62 20 1	Telstar 1	July 10	Sphere	77	0.9ϕ	45	158	5632	952	0.242
62 60 1	Anna 1B	October 31	Spheroid	161	$1.2\phi \times 0.9$	50	108	1182	1077	0.007
62 68 1	Relay 1	December 13	Octagonal Prism	78	$0.7\phi \times 0.8$	47	185	7439	1322	0.284
63 30 1	Midas 7	July 19	Cylinder	2000	$1.5\phi \times 9$	88	168	3726	3670	0.003
63 30 4	Dash 2	July 19	Infl. Sphere [†]	1.25	2.7ϕ	88	167	4869	2471	0.119
63 53 1	Explorer 19	December 19	Infl. Sphere [†]	7	3.7ϕ	79	116	2394	590	0.115
64 38 1	Elektron 3	July 10	Cylinder	600	$2.0\phi \times 3.0$	61	168	7025	404	0.328
65 34 3	RCS	May 6	Sphere	34	1.1ϕ	32	145	2869	2704	0.009

[†]Infl. denotes inflated.

*Symbol ϕ denotes diameter.

Explanation of Columns in Table 2

Column	Description
1	Date (year, month, day)
2	Time (hour, minute, second), A.S
3	Timing uncertainty, standard error of time (msec)
4	Synthetic observation number
5	Station number
6, 7, 8	Direction cosines in the terrestrial system
9	ω , apparent angular velocity (arcsec/sec)
10	ϕ , track angle, angle between velocity vector from the positive right ascen- sion direction to the positive declina- tion direction
11	a, uncertainty along track (arcsec)
12	b, uncertainty across track (arcsec)

Table 2. Synthetic simultaneous observations

6000902

DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1964 12 28	6 51 49.5416	1.0	71018	9012	-.16901206	.46997088	0.86634998	430	98	1.0	.4
1964 12 28	6 51 49.5416	1.0	71018	9117	-.00070562	.06832376	0.99766295	410	117	1.5	1.4
1965 2 8	15 10 3.6676	1.0	71193	9012	-.69043328	-.40007040	-.60269257	470	44	1.0	.7
1965 2 8	15 10 3.6676	1.0	71193	9117	-.43219276	-.80977697	-.39682575	480	57	1.0	.8
1965 2 8	15 13 51.6670	1.0	71194	9012	-.53477495	-.82351943	-.18929211	630	48	.9	.4
1965 2 8	15 13 51.6670	1.0	71194	9117	-.19786205	-.98022887	0.00140413	410	52	1.4	1.2
1965 2 9	14 45 57.6314	1.0	71195	9012	-.63133218	-.50986486	-.58434365	480	46	1.2	.6
1965 2 9	14 45 57.6314	1.0	71195	9117	-.35972355	-.86046175	-.36083867	450	58	1.3	.7
1965 2 9	14 49 13.5925	1.0	71196	9012	-.47219038	-.85126007	-.22889416	590	49	1.2	1.0
1965 2 9	14 49 13.5925	1.0	71196	9117	-.16507671	-.98571864	-.03329328	390	53	1.1	.6
1965 2 10	14 20 55.6225	1.0	71197	9012	-.58113362	-.50842675	-.63544154	450	47	.8	.7
1965 2 10	14 20 55.6225	1.0	71197	9117	-.33294206	-.84471405	-.41905579	430	59	.8	1.0

6001301

DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1965 6 23	8 20 31.3809	1.0	71260	9007	.90012803	.02728338	-.43477022	520	61	1.2	.5
1965 6 23	8 20 31.3809	1.0	71260	9011	.82661526	-.44424239	0.34547925	580	8	1.8	.9

6100401

DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1961 6 6	8 42 7.6333	1.0	70009	9001	.19964416	-.93517030	-.29257259	410	325	.5	.4
1961 6 6	8 42 7.6333	1.0	70009	9010	-.66649446	-.73877151	-.10000895	430	317	.8	1.0
1961 7 3	9 43 27.7258	1.0	70089	9007	-.27758090	-.35320647	-.89341705	440	335	1.5	.9
1961 7 3	9 43 27.7258	1.0	70089	9011	-.48118261	-.83491295	-.26717721	550	23	1.3	1.5
1961 7 6	8 43 4.2401	1.0	70280	9007	.58772180	-.36276586	-.72317634	740	51	1.1	.7
1961 7 6	8 43 4.2401	1.0	70280	9011	.43481521	-.89311535	0.11524194	780	33	1.7	1.5
1961 7 21	0 56 49.7434	1.0	70093	9007	-.14989864	-.22649164	-.96240944	320	316	.8	.3
1961 7 21	0 56 49.7434	1.0	70093	9011	-.31535195	-.60829517	-.72837500	400	327	.7	.3
1961 7 21	0 58 13.7458	1.0	70094	9007	-.02206277	-.20028317	-.97948960	320	340	.4	.3
1961 7 21	0 58 13.7458	1.0	70094	9011	-.15461216	-.60372509	-.78205569	430	336	.7	1.0
1961 8 2	0 49 37.6635	1.0	70282	9007	.24868771	-.65419031	-.71427548	490	35	.7	1.5
1961 8 2	0 49 37.6635	1.0	70282	9011	.11281109	-.98906162	-.09503036	480	29	1.3	.7
1961 8 2	0 53 9.7375	1.0	70189	9007	.65742275	-.60958423	-.44294739	460	48	1.6	.4
1961 8 2	0 53 9.7375	1.0	70189	9011	.47959853	-.86579291	0.14278616	400	33	.7	1.3
1961 8 3	0 22 45.6742	1.0	70283	9007	-.28875964	-.46584528	-.83642456	380	354	1.4	.5
1961 8 3	0 22 45.6742	1.0	70283	9011	-.43735170	-.83085639	-.34409468	430	14	.7	1.0
1961 8 3	0 26 29.6671	1.0	70284	9007	.15206708	-.61313906	-.77520068	490	29	.5	.4
1961 8 3	0 26 29.6671	1.0	70284	9011	.01907598	-.98639251	-.16329704	510	27	1.7	1.9
1961 8 3	9 5 29.7275	1.0	70010	9001	.43070622	-.57592224	0.69484223	560	343	1.9	.5
1961 8 3	9 5 29.7275	1.0	70010	9010	-.58344132	-.30349516	0.75331727	420	66	1.5	.5
1961 8 5	8 21 55.7140	1.0	70011	9001	.49535052	-.56426874	0.66047608	480	342	1.9	.8
1961 8 5	8 21 55.7140	1.0	70011	9010	-.49006533	-.35172345	0.79757544	440	60	1.4	.8
1962 2 11	5 30 41.9238	3.0	70026	9001	-.99438587	-.10423027	0.01824260	340	332	1.3	.8
1962 2 11	5 30 41.9238	1.0	70026	9012	.09022859	-.92788506	0.36178463	300	293	1.6	1.0
1962 2 13	0 49 49.9456	1.0	70071	9009	.49256894	-.2017829	0.69770365	570	312	1.6	.6
1962 2 13	0 49 49.9456	1.0	70071	9010	.86277520	-.50530150	0.01701024	340	313	.6	.3
1962 2 14	0 21 45.9329	3.0	70072	9009	-.08011087	-.41113359	0.90804814	480	355	1.8	.4
1962 2 14	0 21 45.9329	1.0	70072	9010	.57785774	-.69253490	0.43182849	670	315	1.0	.6
1962 3 1	7 25 33.9669	3.0	70097	9007	.93504269	-.24115032	-.25988784	380	54	1.5	.4
1962 3 1	7 25 33.9669	1.0	70097	9011	.81189655	-.52714975	0.25087274	350	36	.4	.6

Table 2 (Cont.)

6102801

DATE			TIME			SIGMA	OBS NO	STA NO	L	M	N	OMEGA	PHI	A	B
Y	M	D	H	M	S	MSEC								SEC	SEC
1962	5	30	0	3	46.0561	3.0	70035	9007	-.19726695	-.78533690	0.58679784	240	260	1.8	1.3
1962	5	30	0	3	46.0561	1.0	70035	9009	-.31331631	-.94886000	-.03869871	310	261	1.7	1.1
1962	5	30	0	7	26.0549	3.0	70036	9007	-.28445099	-.89429736	0.34542708	280	258	1.4	.7
1962	5	30	0	7	26.0549	1.0	70036	9009	-.34627043	-.87554441	-.33692547	270	257	1.0	.7
1962	5	30	0	10	46.0531	3.0	70037	9007	-.36719156	-.92745949	0.07033464	310	255	1.2	.4
1962	5	30	0	10	46.0531	1.0	70037	9009	-.36082639	-.75902296	-.54193031	220	253	1.1	.7
1962	5	31	0	58	30.0519	3.0	70038	9007	-.59133614	-.66135221	0.46144861	220	262	1.4	.8
1962	5	31	0	58	30.0519	1.0	70038	9009	-.69676737	-.71365711	-.07217175	240	263	1.4	1.3
1962	5	31	23	13	34.0478	3.0	70098	9007	.15072247	-.98830433	0.02317948	360	257	1.3	1.3
1962	5	31	23	13	34.0478	3.0	70098	9011	.04446711	-.93849035	0.34243034	250	255	1.7	.3
1962	6	3	23	17	34.0364	3.0	70100	9007	-.11859888	-.73194489	-.67096273	320	249	1.5	.7
1962	6	3	23	17	34.0364	3.0	70100	9011	-.20012955	-.94012630	-.27588168	330	249	1.3	1.4
1962	6	3	23	22	38.0351	3.0	70101	9007	-.21261016	-.40771090	-.88001393	230	233	.8	.7
1962	6	3	23	22	38.0351	3.0	70101	9011	-.32592863	-.68259005	-.65409583	310	239	1.2	.8
1962	7	5	9	2	22.1033	1.0	70238	9009	.35955903	-.77968884	-.51264278	270	104	.7	1.0
1962	7	5	9	2	22.1033	1.0	70238	9011	.30066847	-.83635700	0.45837260	210	104	1.5	.3
1962	7	5	9	16	30.0946	1.0	70054	9009	.05478660	-.72045730	0.69133184	300	108	.7	1.0
1962	7	5	9	16	30.0946	1.0	70054	9010	.39922632	-.84876783	0.34671532	350	98	1.8	.4
1962	7	7	8	23	16.5946	1.0	70239	9009	.29149369	-.33486682	0.89604444	240	94	.8	.3
1962	7	7	8	23	16.5946	1.0	70239	9010	.62853818	-.42905334	0.64873183	310	85	1.0	.9
1962	7	8	9	3	30.0913	3.0	70041	9007	.27792058	-.78576759	0.55256624	250	104	1.0	.5
1962	7	8	9	3	30.0913	1.0	70041	9009	.25940081	-.95640595	-.13415990	330	103	.4	.7
1962	7	10	8	2	14.0865	1.0	70057	9009	.72097927	-.56577398	-.40011085	260	104	.4	.8
1962	7	10	8	2	14.0865	1.0	70057	9011	.58779949	-.62719687	0.51099496	200	105	.9	1.5
1962	7	14	8	58	50.0974	3.0	70042	9007	.11398697	-.72376032	0.68057180	210	106	.9	1.3
1962	7	14	8	58	50.0974	1.0	70042	9009	.07519399	-.99085257	0.11205824	350	104	.6	.6
1963	6	14	2	20	46.4853	1.0	70150	9004	.02413317	-.95558965	0.29371076	210	280	.4	.4
1963	6	14	2	20	46.4853	1.0	70150	9009	.57822298	-.09094781	0.81079386	220	233	.8	.4
1963	6	14	5	6	54.4839	1.0	70001	9001	.32658917	-.77900892	0.53524258	340	245	.7	.5
1963	6	14	5	6	54.4839	1.0	70001	9010	-.31696050	-.67040295	0.67089189	340	271	.6	.8
1963	6	14	5	10	54.4795	1.0	70002	9001	.22997645	-.95373321	0.19365897	330	251	.8	.6
1963	6	14	5	10	54.4795	1.0	70002	9010	-.40880331	-.85153414	0.32828259	340	267	.8	.6
1963	6	25	3	59	8.4952	1.0	70077	9001	.55876701	-.72466710	0.40328281	300	243	.8	.4
1963	6	25	3	59	8.4952	1.0	70077	9009	-.27548070	-.53002487	0.80198754	260	277	.8	.4
1963	6	25	4	2	20.4943	1.0	70078	9001	.50484941	-.84868924	0.15765040	300	248	.8	.3
1963	6	25	4	2	20.4943	1.0	70078	9009	-.34291182	-.70378470	0.62217247	290	271	1.0	.4
1963	6	25	4	2	54.4946	1.0	70083	9001	.49247974	-.86299275	0.11272630	290	249	.6	.6
1963	6	25	4	2	54.4946	1.0	70083	9009	-.35494999	-.73069126	0.58318161	300	271	1.4	.4
1963	6	25	4	6	12.4973	1.0	70079	9001	.41058518	-.90091675	-.14060163	270	252	.7	.3
1963	6	25	4	6	12.4973	1.0	70079	9009	-.41925264	-.84850073	0.32291444	310	267	.7	.5
1963	6	26	5	1	42.5030	1.0	70081	9001	-.11971539	-.95632423	-.26666869	270	255	1.7	.5
1963	6	26	5	1	42.5030	1.0	70081	9009	-.75908963	-.63190848	0.15644362	230	268	.8	.8
1963	6	28	3	57	32.4994	1.0	70082	9001	.48929253	-.83453638	0.25326241	310	247	.7	.6
1963	6	28	3	57	32.4994	1.0	70082	9009	-.35908323	-.63724609	0.68189197	280	274	.7	.7
1963	7	1	3	52	24.5029	1.0	70165	9001	.47688600	-.79402013	0.37697716	320	245	.7	.5
1963	7	1	3	52	24.5029	1.0	70165	9009	-.36377570	-.55238647	0.75002428	260	277	1.2	.5
1963	7	26	1	47	10.5315	1.0	70043	9007	-.00079371	-.96843316	0.24927211	320	257	.5	.3
1963	7	26	1	47	10.5315	1.0	70043	9009	-.07005451	-.87762511	-.47420094	270	255	.8	.5
1963	7	28	0	53	26.5390	1.0	70044	9007	.47450570	-.86966272	-.13612896	360	259	.9	.6
1963	7	28	0	53	26.5390	1.0	70044	9009	.28409495	-.63101705	-.72187779	220	256	.5	1.1
1963	7	29	23	54	22.5437	1.0	70045	9007	.87032146	-.49247358	-.00321392	300	263	.9	1.3
1963	7	29	23	54	22.5437	1.0	70045	9009	.67646581	-.41421915	-.60894705	240	262	.5	.7
1963	7	29	23	58	6.5375	1.0	70286	9007	.80496563	-.49181459	-.33188664	320	266	1.3	.4
1963	7	29	23	58	6.5375	1.0	70286	9009	.52407026	-.35050783	-.77620527	200	264	1.7	.8
1963	7	29	23	58	6.5375	1.0	70286	9011	.71550166	-.69735035	0.04195073	290	261	.7	.6
1963	8	2	2	27	34.5405	1.0	70056	9009	-.56584770	-.82184596	0.06622385	270	265	.7	.7
1963	8	2	2	27	34.5405	1.0	70056	9010	-.31691034	-.90980068	-.26801224	260	260	.8	1.0
1963	8	6	0	43	2.5559	1.0	70058	9009	.13655147	-.66021153	-.73856241	210	253	.4	1.1
1963	8	6	0	43	2.5559	1.0	70058	9011	.15186674	-.96854296	0.19713201	280	255	.9	.8
1963	10	26	8	53	58.6150	1.0	70004	9001	.64580915	-.69793757	0.30953787	280	85	.7	.3

Table 2 (Cont.)

6102801

DATE			TIME			SIGMA	OBS NO	STA NO	L	M	N	OMEGA	PHI	A	B
Y	M	D	H	M	S	MSEC								SEC	SEC
1963	10	26	8	53	58.6150	1.0	70004	9010	.15321038	-.81237897	0.56264286	380	102	1.0	1.1
1963	10	26	8	57	22.6145	1.0	70005	9001	.58707880	-.58328957	0.56134816	290	83	.7	.3
1963	10	26	8	57	22.6145	1.0	70005	9010	.03934990	-.58427998	0.81059761	340	106	.7	.4
1963	10	26	11	41	2.6191	1.0	70027	9001	-.73885339	-.49435601	0.45793865	340	114	.7	.7
1963	10	26	11	41	2.6191	1.0	70027	9012	.17912213	-.83266841	0.52400246	240	78	1.0	.8
1963	10	27	6	55	26.6149	1.0	70047	9009	.90715106	-.32044511	0.27274876	300	93	.8	.4
1963	10	27	6	55	26.6149	1.0	70047	9010	.95359273	-.29435429	-.06337553	220	93	.8	.5
1963	10	27	9	38	54.6159	1.0	70048	9009	-.48052601	-.87516278	0.05643458	300	105	1.3	1.4
1963	10	27	9	38	54.6159	1.0	70048	9010	-.20030842	-.93526303	-.29182118	280	105	.4	1.4
1963	10	27	9	40	46.6160	1.0	70288	9001	.30423436	-.92371971	-.23277318	240	98	1.0	.5
1963	10	27	9	40	46.6160	1.0	70288	9009	-.50925361	-.83490527	0.20879164	290	108	.7	.4
1963	10	27	9	41	10.6027	1.0	70289	9001	.30228478	-.93082647	-.20539229	250	98	.8	.4
1963	10	27	9	41	10.6027	1.0	70289	9009	-.51425804	-.82330529	0.24022295	290	108	.6	.3
1963	10	27	9	41	10.6027	1.0	70289	9010	-.25960079	-.95950507	-.10935013	310	106	1.1	1.1
1963	10	27	9	41	34.6101	1.0	70290	9001	.30018843	-.93728946	-.17713095	250	98	1.0	.5
1963	10	27	9	41	34.6101	1.0	70290	9009	-.51883223	-.81074504	0.27111916	290	109	.7	.4
1963	10	27	12	25	54.6193	1.0	70029	9001	-.88767115	-.37807707	-.26286433	230	107	.7	.8
1963	10	27	12	25	54.6193	1.0	70029	9012	-.19525683	-.97898757	-.05880568	260	95	1.1	.7
1963	10	28	7	37	46.6189	1.0	70059	9009	.58648698	-.48362497	-.64972295	220	108	.9	.3
1963	10	28	7	37	46.6189	1.0	70059	9011	.62570205	-.71573232	0.31020024	260	105	1.5	.5
1963	10	28	7	47	14.6136	1.0	70049	9009	.62478018	-.77518323	0.09349164	370	100	1.6	.4
1963	10	28	7	47	14.6136	1.0	70049	9010	.73550028	-.62409697	-.25154789	250	99	1.6	.3
1963	10	28	7	55	18.6191	1.0	70291	9009	.30384787	-.53777608	0.78643077	300	100	1.6	.3
1963	10	28	7	55	18.6191	1.0	70291	9010	.64954887	-.62473725	0.43334701	340	91	.4	.8
1963	10	28	10	34	30.6150	1.0	70006	9001	-.19986199	-.93771626	-.28415383	260	103	.7	.3
1963	10	28	10	34	30.6150	1.0	70006	9010	-.66544057	-.73208707	-.14573047	260	107	1.0	.7
1963	10	29	8	30	22.6188	1.0	70292	9007	.31521300	-.92917935	-.19304533	380	102	1.1	.5
1963	10	29	8	30	22.6188	1.0	70292	9009	.15887973	-.64467912	-.74776070	220	103	1.4	.5
1963	10	29	8	30	46.6107	1.0	70293	9007	.30876568	-.93907436	-.15100696	370	102	1.1	.5
1963	10	29	8	30	46.6107	1.0	70293	9009	.15755408	-.66422873	-.73072814	230	103	1.4	.5
1963	10	29	8	30	46.6107	1.0	70293	9011	.17218555	-.95755907	0.23115528	270	102	1.3	1.0
1963	10	29	8	31	2.6161	1.0	70294	9007	.30412874	-.94466890	-.12290801	370	102	1.4	.7
1963	10	29	8	31	2.6161	1.0	70294	9009	.15652488	-.67730268	-.71886093	230	103	1.7	.6
1963	10	29	8	40	54.6194	1.0	70295	9009	.00962118	-.99889447	0.04601381	360	104	.8	.6
1963	10	29	8	40	54.6194	1.0	70295	9010	.30183131	-.89860817	-.31843558	270	103	.8	.7
1963	10	29	8	41	18.6196	1.0	70296	9007	.06071182	-.72912419	0.68168320	220	106	1.0	.5
1963	10	29	8	41	18.6196	1.0	70296	9009	-.00062242	-.99621698	0.08689845	360	104	.8	.7
1963	10	29	8	41	18.6196	1.0	70296	9010	.29806559	-.90987472	-.28859123	280	103	.8	.7
1963	10	29	8	41	34.6186	1.0	70297	9007	.05503322	-.71837835	0.69347234	220	107	1.1	.5
1963	10	29	8	41	34.6186	1.0	70297	9010	.29533393	-.91700202	-.26811409	280	103	1.1	1.0
1963	10	29	8	43	54.6253	1.0	70298	9001	.64062748	-.75443659	-.14290509	220	94	1.3	.9
1963	10	29	8	43	54.6253	1.0	70298	9010	.26295403	-.96234587	-.06888835	330	102	1.6	.6
1963	10	29	8	44	26.6191	1.0	70299	9001	.64172836	-.75909835	-.10933621	220	93	.8	.5
1963	10	29	8	44	26.6191	1.0	70299	9009	-.08294242	-.91605929	0.39237219	350	107	1.1	.3
1963	10	29	8	44	26.6191	1.0	70299	9010	.25323257	-.96722418	-.01872568	340	102	1.0	.3
1963	10	29	8	44	58.6145	1.0	70300	9001	.64240262	-.76271314	-.07474813	230	93	1.3	.9
1963	10	29	8	44	58.6145	1.0	70300	9009	-.09652469	-.89324446	0.43908691	340	107	1.5	.5
1963	10	29	8	47	26.6196	1.0	70301	9001	.63863962	-.76330291	0.09750950	250	90	1.3	.7
1963	10	29	8	47	26.6196	1.0	70301	9009	-.15420759	-.76471356	0.62564622	310	111	1.2	.3
1963	10	29	8	47	50.6088	1.0	70302	9001	.63676693	-.76050748	0.12710724	260	89	1.0	.5
1963	10	29	8	47	50.6088	1.0	70302	9009	-.16259613	-.74142328	0.65104072	300	112	1.0	.3
1963	10	29	8	47	50.6088	1.0	70302	9010	.17063559	-.93066668	0.32364027	380	102	1.4	.7
1963	10	29	8	48	18.6149	1.0	70303	9001	.63408022	-.75608252	0.16211569	260	88	1.1	.5
1963	10	29	8	48	18.6149	1.0	70303	9009	-.17201130	-.71371727	0.67898437	290	113	1.0	.3
1963	10	29	8	50	50.6268	1.0	70304	9001	.60878774	-.70823046	0.35747322	290	85	1.1	1.0
1963	10	29	8	50	50.6268	1.0	70304	9010	.07712027	-.79057157	0.60749408	370	104	1.9	.7
1963	10	29	8	51	26.6231	1.0	70305	9001	.59993971	-.69059962	0.40391151	290	84	.7	.6
1963	10	29	8	51	26.6231	1.0	70305	9009	-.22494379	-.52247499	0.82244767	250	121	.8	.4
1963	10	29	8	51	26.6231	1.0	70305	9010	.05790331	-.75233766	0.65622805	370	105	1.2	.4
1963	10	29	8	52	2.6180	1.0	70306	9001	.58995552	-.67049278	0.44987989	300	83	1.1	1.0

Table 2 (Cont.)

6102801

DATE			TIME			SIGMA	OBS NO	STA NO	L	M	N	OMEGA	PHI	A	b
Y	M	D	H	M	S	MSEC								SEC	SEC
1963	10	29	8	52	2.6180	1.0	70306	9009	-.23314814	-.48624359	0.84214554	240	123	1.1	.6
1963	10	29	8	53	30.6282	1.0	70307	9001	.56087689	-.61112479	0.55851912	300	81	1.0	1.1
1963	10	29	8	53	30.6282	1.0	70307	9010	-.00544216	-.60689497	0.79628667	340	108	1.3	1.1
1963	10	29	8	53	58.6280	1.0	70308	9001	.55031141	-.58933697	0.59147214	300	80	.7	.7
1963	10	29	8	53	58.6280	1.0	70308	9009	-.25586716	-.37285098	0.89191600	210	132	1.1	.7
1963	10	29	8	53	58.6280	1.0	70308	9010	-.01877201	-.56956982	0.82172856	330	109	.8	.7
1963	10	29	8	54	26.6230	1.0	70309	9001	.53914324	-.56626504	0.62343281	300	79	1.0	1.1
1963	10	29	8	54	26.6230	1.0	70309	9009	-.26058155	-.34643884	0.90115336	210	134	1.8	1.1
1963	10	29	8	56	6.6233	1.0	70167	9001	.49512694	-.47453307	0.72778271	300	75	1.0	.4
1963	10	29	8	56	6.6233	1.0	70167	9010	-.07356459	-.40660635	0.91063688	290	115	.4	.3
1963	11	3	7	31	8.7309	1.0	70204	9009	.52404037	-.57289435	-.63021723	240	107	.6	.6
1963	11	3	7	31	8.7309	1.0	70204	9011	.52395776	-.77177934	0.36031225	250	105	1.8	1.4
1963	11	3	7	37	46.7225	1.0	70205	9009	.55271483	-.82350019	-.12788180	350	102	1.0	.5
1963	11	3	7	37	46.7225	1.0	70205	9010	.65401047	-.64271768	-.39897906	220	102	.8	1.1
1963	11	7	8	27	2.7214	1.0	70084	9007	-.02434740	-.87154061	0.48971846	260	104	.4	1.2
1963	11	7	8	27	2.7214	1.0	70084	9010	.17583707	-.84255289	-.50910309	230	105	.7	.8
1963	11	9	7	30	10.7273	1.0	70085	9007	.42476317	-.71401434	0.55656066	260	103	1.0	.3
1963	11	9	7	30	10.7273	1.0	70085	9010	.58117001	-.69246829	-.42746823	230	102	.9	1.0
1963	11	10	8	15	48.2374	1.0	70206	9007	.05652313	-.98100663	-.18555627	370	100	.7	.6
1963	11	10	8	15	48.2374	1.0	70206	9009	-.02024040	-.68106173	-.73194620	220	100	.6	.9
1963	11	10	8	22	38.2347	1.0	70208	9007	-.06518795	-.89829197	0.43453661	270	104	.7	.8
1963	11	10	8	22	38.2347	1.0	70208	9009	-.14315693	-.94551536	-.29241545	310	102	.8	.3
1963	11	10	8	26	6.2342	1.0	70209	9007	-.11502879	-.76416080	0.63468626	270	107	.3	.4
1963	11	14	8	26	6.2342	1.0	70209	9009	-.22490477	-.47405250	0.02528975	340	104	1.0	.6
1963	11	10	8	30	22.1916	1.0	70210	9001	.51048708	-.85617731	-.07977064	250	94	.3	.3
1963	11	10	8	30	22.1916	1.0	70210	9009	-.31127201	-.85655137	0.40743009	320	109	1.0	.5
1963	11	10	22	24	42.7390	1.0	70017	9006	.66653829	.65252397	0.36047077	340	111	.6	1.7
1963	11	10	22	24	42.7390	1.0	70017	9008	.061173783	.93245356	0.35597584	340	93	1.2	.4
1963	11	11	12	17	46.7384	1.0	70030	9001	-.92325132	.05940680	0.37957586	240	121	.4	.8
1963	11	11	12	17	46.7384	1.0	70030	9012	-.27730103	-.57514979	0.74961475	310	86	1.1	.6
1963	11	12	7	19	10.7280	1.0	70103	9007	.59550065	-.80064136	-.06597263	360	104	1.7	.3
1963	11	12	7	19	10.7280	1.0	70103	9011	.41612203	-.86030934	0.29446612	270	104	1.7	.3
1963	11	13	8	12	14.7369	1.0	70104	9007	-.00900698	-.98480974	-.17340314	360	99	1.1	.5
1963	11	13	8	12	14.7369	1.0	70104	9011	-.08059663	-.97626899	0.20100508	260	99	.4	.4
1963	11	13	11	12	58.7467	1.0	70031	9001	-.87222420	-.48503487	-.06297714	270	109	.7	.3
1963	11	13	11	12	58.7467	1.0	70031	9012	-.04119853	-.98506713	0.16716887	250	90	1.0	.3
1963	11	13	11	18	54.7444	1.0	70032	9001	-.87667150	-.28160704	0.39005712	300	117	.8	.5
1963	11	13	11	18	54.7444	1.0	70032	9012	-.00005515	-.81062994	0.58555879	270	80	.5	.2
1963	11	13	11	24	30.7437	1.0	70033	9001	-.70491266	.00123145	0.70929305	260	132	.7	.5
1963	11	13	11	24	30.7437	1.0	70033	9012	.09550157	-.51201237	0.85365261	240	64	.7	.4
1963	11	13	22	20	58.7453	1.0	70018	9006	.70296415	.62075306	0.34714124	340	112	.9	.9
1963	11	13	22	20	58.7453	1.0	70018	9008	.11432819	.92777202	0.35520155	350	94	1.3	1.1
1963	11	13	22	25	26.7519	1.0	70019	9006	.64776112	.35821486	0.67237463	310	121	.5	.3
1963	11	13	22	25	26.7519	1.0	70019	9008	.09458078	.67380252	0.73283330	350	90	.7	.7
1963	11	14	6	30	42.7322	1.0	70086	9007	.65504617	-.43584133	0.61721702	230	99	.3	.5
1963	11	14	6	30	42.7322	1.0	70086	9010	.83959113	-.47561797	-.26243910	220	98	.8	.7
1963	11	14	9	25	42.7720	1.0	70007	9001	-.09154189	-.92538983	0.36779579	370	99	.8	.3
1963	11	14	9	25	42.7720	1.0	70007	9010	-.63894081	-.64650701	0.41375512	300	115	1.0	.8
1963	11	14	20	35	50.7525	1.0	70020	9006	-.17656344	.46729442	0.86629168	320	87	1.0	1.0
1963	11	14	20	35	50.7525	1.0	70020	9008	-.55875454	.53743028	0.63163443	240	70	1.8	.3
1963	11	15	7	25	38.9819	1.0	70087	9007	.24096596	-.66538180	0.70654261	220	106	1.3	.6
1963	11	15	7	25	38.9819	1.0	70087	9010	.50495352	-.82623549	-.24971355	280	101	1.3	.6
1963	11	19	0	17	34.7708	1.0	70022	9004	.03715665	.60402796	0.79609648	250	56	.5	1.1
1963	11	19	0	17	34.7708	1.0	70022	9008	.35060282	-.32476197	0.87841182	210	158	.7	1.3
1963	11	19	8	4	30.7747	1.0	70046	9007	-.12534520	-.96952643	-.21049248	360	98	1.3	.3
1963	11	19	8	4	30.7747	1.0	70046	9009	-.14455560	-.67203644	-.72627178	220	97	.6	.7
1963	11	19	19	37	42.7654	1.0	70023	9006	-.36967945	.20096923	0.90716507	260	61	.6	.4
1963	11	19	19	37	42.7654	1.0	70023	9008	-.65289238	.32103921	0.68605056	210	61	.6	.8
1963	11	19	19	41	18.7673	1.0	70024	9006	-.25281918	-.01299219	0.96742631	220	25	1.2	.3
1963	11	19	19	41	18.7673	1.0	70024	9008	-.57634372	.15454952	0.80245634	200	46	.7	.3

Table 2 (Cont.)

6102801

DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SLC	B SEC
1963 11 19	22 5 2.7440	1.0	70025	9006	.61017060	.70792296	-.35572029	250	105	1.1	.6
1963 11 19	22 5 2.7440	1.0	70025	9008	.12753806	.92405957	-.36034422	230	101	.5	.4
1963 11 20	6 18 22.7447	1.0	70060	9009	.72750760	-.55749236	-.39991869	280	104	1.3	.5
1963 11 20	6 18 22.7447	1.0	70060	9011	.57804903	-.61266006	0.53898698	210	105	.4	.8
1963 11 20	9 6 10.7541	1.0	70051	9009	-.68284666	-.70522613	-.19072636	240	101	.6	.3
1963 11 20	9 6 10.7541	1.0	70051	9010	-.45927445	-.75153113	-.47356936	220	103	1.4	.3
1963 11 22	5 19 10.7486	1.0	70211	9009	.89518149	-.16323536	-.41473403	220	105	.5	.7
1963 11 22	5 19 10.7486	1.0	70211	9011	.85356419	-.31339520	0.41618700	210	105	.7	.5
1963 11 22	8 8 18.7454	1.0	70052	9009	-.35394155	-.90245239	-.24557089	290	102	.9	.5
1963 11 22	8 8 18.7454	1.0	70052	9010	-.06169405	-.84712353	-.52780259	230	104	.5	.3
1963 11 28	5 10 46.7574	1.0	70310	9009	.84481071	-.20953352	-.49233177	220	107	1.2	.6
1963 11 28	5 10 46.7574	1.0	70310	9011	.84980740	-.37875424	0.36656870	230	106	1.1	1.0
1963 11 28	5 11 10.7581	1.0	70311	9007	.96546961	-.23469315	0.11308208	260	104	1.0	.8
1963 11 28	5 11 10.7581	1.0	70311	9009	.85444796	-.21923983	-.47101229	220	106	1.0	.4
1963 11 28	5 11 10.7581	1.0	70311	9011	.83824415	-.38116588	0.38994784	220	105	.9	.8
1963 11 28	5 11 34.7494	1.0	70312	9009	.86376857	-.22881620	-.44893987	220	105	1.2	.6
1963 11 28	5 11 34.7494	1.0	70312	9011	.82637476	-.38310091	0.41272079	220	105	1.1	1.0
1964 2 11	3 33 34.8471	1.0	70212	9007	-.00093419	-.97641187	-.21591431	360	99	.7	.4
1964 2 11	3 33 34.8471	1.0	70212	9009	-.05873012	-.67371352	-.73665519	220	98	.4	.6
1964 2 13	16 51 38.8672	1.0	70139	9006	.28165233	.45158635	0.84660601	300	114	1.0	.8
1964 2 13	16 51 38.8672	1.0	70139	9008	-.26086764	.62508376	0.73567545	280	77	1.7	1.8
1964 2 14	3 29 40.8508	1.0	70124	9009	-.09829296	-.67020902	-.73563467	220	98	.8	.4
1964 2 14	3 29 40.8508	1.0	70124	9011	-.12131930	-.98053689	0.15436656	260	98	.6	.6
1964 2 15	2 1 22.8737	1.0	70213	9001	.84086795	-.36037549	0.40382001	210	78	.8	.7
1964 2 15	2 1 22.8737	1.0	70213	9009	.26453492	-.30495027	0.91320978	230	95	1.1	.3
1964 2 15	18 40 51.3704	1.0	70193	9006	.75138936	-.05820629	0.65728689	220	132	.7	.7
1964 2 15	18 40 51.3704	1.0	70193	9008	.45108641	.17383769	0.87538649	290	120	.8	.3
1964 2 17	3 47 44.3637	1.0	70125	9001	.31292592	-.82990696	0.46187856	320	90	.4	.7
1964 2 17	3 47 44.3637	1.0	70125	9009	-.46420511	-.50270424	0.72924760	220	124	.5	.3
1964 2 19	2 47 26.8650	1.0	70126	9001	.67903827	-.70390169	0.20839731	250	88	.5	.5
1964 2 19	2 47 26.8650	1.0	70126	9009	-.07090653	-.68376273	0.72625119	280	112	.8	.3
1964 2 19	5 42 26.8601	1.0	70105	9001	-.53721897	-.14197748	0.83140735	270	132	.7	.7
1964 2 19	5 42 26.8601	1.0	70105	9012	.23903742	-.55080267	0.79967339	210	62	1.5	.7
1964 2 20	0 40 34.8524	1.0	70127	9009	.89357148	-.16928843	-.41577811	210	105	.7	.7
1964 2 20	0 40 34.8524	1.0	70127	9011	.85725640	-.31858594	0.40449285	210	105	.6	1.0
1964 2 20	6 28 10.8584	1.0	70128	9001	-.93215111	-.25294318	0.25906381	270	115	.5	.4
1964 2 20	6 28 10.8584	1.0	70128	9012	-.14294723	-.84571513	0.51413229	280	86	1.0	.7
1964 2 20	6 34 6.8570	1.0	70129	9001	-.79385765	-.00832866	0.60804660	250	127	.8	.9
1964 2 20	6 34 6.8570	1.0	70129	9012	-.02956407	-.54748862	0.83629073	240	73	1.6	.6
1964 2 22	5 37 26.8660	1.0	70130	9001	-.60298549	-.19739022	0.77294605	280	127	.9	.7
1964 2 22	5 37 26.8660	1.0	70130	9012	.20586175	-.60672901	0.76778959	210	66	1.5	.5
1964 3 1	1 20 58.8652	1.0	70178	9009	.52576419	-.54424148	-.65373789	230	107	1.6	.7
1964 3 1	1 20 58.8652	1.0	70178	9011	.55345405	-.77308388	0.30988696	250	105	1.4	.7
1964 3 1	18 20 54.8869	1.0	70106	9006	.82528372	-.11674742	0.55251862	210	128	.6	.5
1964 3 1	18 20 54.8869	1.0	70106	9008	.62396035	.08155381	0.77718882	290	122	.6	.5
1964 3 2	19 14 50.8876	1.0	70195	9004	.39925145	.74200957	0.53853512	260	78	.6	1.0
1964 3 2	19 14 50.8876	1.0	70195	9008	.72323613	-.24730897	0.64480057	250	127	1.0	.7
1964 3 3	3 13 50.8643	1.0	70313	9009	-.48368068	-.82496924	-.29236750	260	100	.7	.3
1964 3 3	3 13 50.8643	1.0	70313	9010	-.21559791	-.80391113	-.55429634	210	103	1.5	.6
1964 3 3	3 14 10.8643	1.0	70314	9007	-.43055397	-.83231261	0.74911173	240	102	1.7	1.0
1964 3 3	3 14 10.8643	1.0	70314	9009	-.49103877	-.82865215	-.26873135	260	101	.7	.3
1964 3 3	3 14 10.8643	1.0	70314	9010	-.22308675	-.81330332	-.53737325	220	103	1.4	.5
1964 3 3	3 14 26.8678	1.0	70315	9007	-.43100618	-.82493973	0.36566120	230	102	1.5	.8
1964 3 3	3 14 26.8678	1.0	70315	9009	-.49683620	-.83117396	-.24960697	260	101	1.1	.3
1964 3 3	17 17 18.8846	1.0	70107	9006	.86964071	.36627752	0.33100727	270	115	.5	.5
1964 3 3	17 17 18.8846	1.0	70107	9008	.49038725	.76265438	0.42175661	350	101	1.3	.6
1964 3 3	20 3 54.8905	1.0	70063	9004	.79180126	.55492836	0.25515736	290	91	.5	.4
1964 3 3	20 3 54.8905	1.0	70063	9008	.86200553	-.41547934	0.29038489	220	117	1.5	1.6
1964 3 4	18 17 50.8941	1.0	70108	9006	.80732865	-.15910135	0.56824925	200	129	1.0	.4
1964 3 4	18 17 50.8941	1.0	70108	9008	.60813244	.01495942	0.79369462	280	126	1.1	.6

Table 2 (Cont.)

6102801

DATE	Y	M	D	TIME	S	SIGMA	OBS NO	STA NO	L	M	H	OMEGA	PHI	A	B
				H	M	MSEC								SEC	ft/c
1964	3	6	3	19	9.7183	1.0	70132	9001	.09057078	-.99472002	-.04825988	280	99	.5	.9
1964	3	6	3	19	9.7183	1.0	70132	9009	-.63812732	-.68553528	0.35047811	240	111	.6	.3
1964	3	8	2	6	34.8871	1.0	70119	9007	.07014253	-.98910213	-.12944884	350	100	.7	1.1
1964	3	8	2	6	34.8871	1.0	70119	9009	-.00939855	-.71281503	-.70128910	230	100	.4	.2
1964	3	8	16	11	54.8859	1.0	70197	9006	.61100147	.78898954	0.06459651	310	107	.6	.7
1964	3	8	16	11	54.8859	1.0	70197	9008	.04567968	.99740518	0.05584417	280	96	.8	.5
1964	3	9	17	13	42.9957	1.0	70109	9006	.82771095	.13965461	0.54349901	250	123	.6	.3
1964	3	9	17	13	42.9957	1.0	70109	9008	.50388547	.46636414	0.72705153	330	107	.8	.5
1964	3	14	16	0	30.8844	1.0	70110	9006	.60045392	.76176603	-.24324392	260	106	.5	.6
1964	3	14	16	0	30.8844	1.0	70110	9008	.10002872	.96479759	-.24322801	240	100	1.4	1.2
1964	3	14	16	2	58.8848	1.0	70111	9006	.66113363	.74611219	-.05683726	290	107	.5	.8
1964	3	14	16	2	58.8848	1.0	70111	9008	.13162918	.98930124	-.06290322	270	98	.9	.5
1964	3	14	16	8	34.8924	1.0	70142	9006	.71459390	.57482154	0.39866747	310	113	.4	.3
1964	3	14	16	8	34.8924	1.0	70142	9008	.16845328	.89061907	0.42239930	330	95	1.5	1.4
1964	3	16	23	30	30.9114	1.0	70114	9004	.06641347	-.96459795	0.25522548	210	119	1.0	1.0
1964	3	16	23	30	30.9114	1.0	70114	9009	.62393121	-.13315164	0.76917096	240	82	.7	.6
1964	3	16	23	35	2.9108	1.0	70115	9004	-.08201253	-.87691911	0.47358929	210	127	1.2	1.2
1964	3	16	23	35	2.9108	1.0	70115	9009	.39929009	-.03056659	0.91631496	200	68	.9	.8
1964	3	19	0	57	38.8901	1.0	70133	9009	.27409529	-.64872166	-.70995210	230	105	.3	.7
1964	3	19	0	57	38.8901	1.0	70133	9011	.29841693	-.92144410	0.24877320	260	103	.4	.5
1964	3	21	0	2	10.8952	1.0	70120	9009	.66525567	-.50430063	-.55055950	240	107	1.0	.6
1964	3	21	0	2	10.8952	1.0	70120	9011	.63566971	-.66425537	0.39330500	230	106	1.0	.4
1964	3	24	16	46	14.8949	1.0	70198	9006	.96125816	.27482502	-.02130630	230	110	1.7	1.0
1964	3	24	16	46	14.8949	1.0	70198	9008	.76771252	.63977792	-.03607908	300	105	.5	.7
1964	3	24	16	50	58.8984	1.0	70254	9006	.95151034	.14957618	0.26880297	230	116	1.0	.4
1964	3	24	16	50	58.8984	1.0	70254	9008	.77853315	.49505412	0.38575582	340	108	1.3	.7
1964	3	24	16	56	42.9033	1.0	70143	9006	.82504577	-.05023903	0.56282814	220	127	1.0	.7
1964	3	24	16	56	42.9033	1.0	70143	9008	.59343343	.18480042	0.78338086	300	118	1.3	.8
1964	3	29	15	49	46.9025	1.0	70112	9006	.84315159	.41121056	0.34641200	280	115	.8	.3
1964	3	29	15	49	46.9025	1.0	70112	9008	.42684954	.79773253	0.42593694	350	100	1.1	.4
1964	3	29	15	55	42.9119	1.0	70144	9006	.71994955	.12796926	0.68212646	250	128	.5	1.0
1964	3	29	15	55	42.9119	1.0	70144	9008	.31845933	.42415110	0.84774967	310	103	1.3	.7
1964	3	29	23	48	42.9077	1.0	70316	9007	.75055424	-.65333276	-.09911931	330	106	1.0	1.5
1964	3	29	23	48	42.9077	1.0	70316	9011	.58719847	-.76908557	0.25239917	260	105	.8	1.4
1964	3	29	23	49	6.9055	1.0	70317	9007	.74596887	-.66301842	-.06274568	330	106	.7	1.0
1964	3	29	23	49	6.9055	1.0	70317	9009	.53275233	-.52497942	-.66375565	220	108	1.1	.3
1964	3	29	23	49	6.9055	1.0	70317	9011	.57625117	-.76774362	0.28018623	250	105	.5	.9
1964	3	29	23	49	30.9042	1.0	70318	9007	.74044012	-.67160324	-.02641054	320	105	1.0	1.5
1964	3	29	23	49	30.9042	1.0	70318	9009	.53868775	-.54200216	-.64501873	230	107	1.6	.5
1964	3	31	0	42	2.9038	1.0	70122	9009	.09991039	-.67535213	-.73069653	220	102	.4	.5
1964	3	31	0	42	2.9038	1.0	70122	9011	.10840316	-.97485561	0.19469282	260	101	1.0	.8
1964	4	1	23	46	19.0116	1.0	70179	9009	.50797483	-.59429120	-.62352189	230	107	.4	.5
1964	4	1	23	46	19.0116	1.0	70179	9011	.50859017	-.78978450	0.34289427	240	105	.5	.5
1964	4	2	16	39	58.9608	1.0	70199	9006	.96367187	.05643030	0.26105966	220	116	.5	.3
1964	4	2	16	39	58.9608	1.0	70199	9008	.85485548	.34936110	0.38362603	330	110	.4	.3
1964	4	3	0	37	58.9681	1.0	70134	9009	.05886932	-.66937185	-.74059147	220	101	.9	.3
1964	4	3	0	37	58.9681	1.0	70134	9011	.06261173	-.98373634	0.16835256	260	100	.7	.7
1964	6	30	9	17	43.1400	1.0	70240	9001	.34301292	-.84212698	0.41613013	340	247	1.3	.4
1964	6	30	9	17	43.1400	1.0	70240	9009	-.44913240	-.51591393	0.71676189	250	280	1.5	.7
1964	6	30	9	27	7.2412	1.0	70123	9007	-.49342577	-.64585713	0.58258010	210	264	.5	.7
1964	6	30	9	27	7.2412	1.0	70123	9010	-.42577686	-.86965796	-.24981813	250	261	.5	.7
1964	7	1	7	25	21.1355	1.0	70326	9009	.32905587	-.38484761	0.86233088	260	248	1.4	1.3
1964	7	1	7	25	21.1355	1.0	70326	9010	.67402346	-.47526680	0.56552086	320	244	.5	.4
1964	7	1	7	36	3.1744	1.0	70370	9007	.31590059	-.68851597	0.65280363	230	255	.9	.4
1964	7	1	7	36	3.1744	1.0	70370	9009	.34534351	-.93835183	0.01528736	370	258	1.1	1.2
1964	7	1	7	36	15.1713	1.0	70371	9007	.31622221	-.69772577	0.64279255	240	255	.5	.3
1964	7	1	7	36	15.1713	1.0	70371	9009	.34107766	-.94001673	-.00588024	370	258	1.2	1.3
1964	7	1	7	36	15.1713	1.0	70371	9010	.53835425	-.77112431	-.33991470	260	255	.7	.5
1964	7	1	7	36	39.1437	1.0	70372	9007	.31665916	-.71608749	0.62204950	240	255	.7	.3
1964	7	1	7	36	39.1437	1.0	70372	9010	.52596063	-.76704611	-.36743119	260	255	.7	.5

Table 2 (Cont.)

6102801

DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A		b
Y	M	D	H	M	S									SEC	SLC	
1964	7	2	8	10	39.1237	1.0	70327	9001	.62051135	-.13631391	0.77225914	220	215	1.5	.8	
1964	7	2	8	10	39.1237	1.0	70327	9010	.18900269	-.06549767	0.97978979	230	208	1.0	1.0	
1964	7	2	8	20	25.1235	1.0	70329	9001	.67123884	-.67656348	0.30282054	280	244	1.0	.8	
1964	7	2	8	20	25.1235	1.0	70329	9010	.20564800	-.80157752	0.56141106	380	256	.7	.6	
1964	7	2	8	23	39.1458	1.0	70373	9009	-.17476541	-.78376981	0.59595464	320	267	1.8	.7	
1964	7	2	8	23	39.1458	1.0	70373	9010	.15806846	-.95641051	0.24554694	370	258	.5	.8	
1964	7	2	8	23	51.1223	1.0	70374	9001	.61925766	-.78308623	0.05740999	270	248	.4	1.1	
1964	7	2	8	23	51.1223	1.0	70374	9009	-.17819234	-.79431812	0.58078069	320	267	1.3	.5	
1964	7	2	8	23	51.1223	1.0	70374	9010	.15439108	-.96203261	0.22507033	370	258	.5	.5	
1964	7	2	8	24	7.1213	1.0	70375	9001	.61390295	-.78845680	0.03819742	270	249	.3	1.1	
1964	7	2	8	24	7.1213	1.0	70375	9009	-.18280914	-.80802059	0.56007459	330	266	1.3	.5	
1964	7	2	8	29	15.1457	1.0	70330	9001	.49059348	-.81591974	-.30592976	230	254	.6	.6	
1964	7	2	8	29	15.1457	1.0	70330	9007	-.14587892	-.73267326	0.66476254	220	260	1.2	1.2	
1964	7	3	6	40	5.1609	1.0	70376	9007	.69782694	-.50929873	0.50363912	240	255	1.3	.3	
1964	7	3	6	40	5.1609	1.0	70376	9009	.77097218	-.61549221	-.16361918	330	257	.8	.6	
1964	7	3	6	40	15.1608	1.0	70377	9007	.70058272	-.51498382	0.49393878	240	255	1.5	.3	
1964	7	3	6	40	15.1608	1.0	70377	9009	.76666852	-.61663074	-.17884605	330	257	.8	.6	
1964	7	3	6	40	15.1608	1.0	70377	9010	.77757209	-.48128487	-.40465605	220	256	.8	.3	
1964	7	3	6	46	35.1581	1.0	70331	9007	.73600861	-.67697210	0.00031910	330	261	.8	.7	
1964	7	3	6	46	35.1581	1.0	70331	9009	.53413156	-.54729081	-.64434172	250	259	.7	1.0	
1964	7	3	9	18	19.1472	1.0	70379	9009	-.60193045	-.66709177	0.43893998	270	273	1.3	.3	
1964	7	3	9	18	19.1472	1.0	70379	9010	-.43601655	-.88478759	0.16443992	320	266	.7	1.4	
1964	7	3	9	24	37.0763	1.0	70334	9007	-.55636150	-.65778299	0.50772376	210	263	.7	.5	
1964	7	3	9	24	37.0763	1.0	70334	9010	-.46746059	-.82051468	-.32899279	230	260	.7	.5	
1964	7	4	7	31	31.1289	1.0	70335	9007	.27092494	-.67136744	0.68983001	220	255	.9	.8	
1964	7	4	7	31	31.1289	1.0	70335	9010	.52481166	-.80606339	-.27355901	280	255	.6	.5	
1964	7	4	7	34	31.1195	1.0	70336	9007	.26454793	-.80818385	0.52616847	270	256	1.4	.3	
1964	7	4	7	34	31.1195	1.0	70336	9010	.43300849	-.76590054	-.47528940	240	256	.8	.4	
1964	7	5	8	12	37.0760	1.0	70337	9001	.66035217	-.49585829	0.56396770	270	236	.9	.4	
1964	7	5	8	12	37.0760	1.0	70337	9010	.17710562	-.50924786	0.84219963	330	252	.7	.7	
1964	7	5	8	15	49.0054	1.0	70338	9001	.65130011	-.66422518	0.36689655	280	243	.4	.6	
1964	7	5	8	15	49.0054	1.0	70338	9010	.15755682	-.75830785	0.63257020	370	257	.7	.6	
1964	7	5	8	24	41.1301	1.0	70382	9007	-.17226207	-.69887850	0.69418630	220	261	.4	.7	
1964	7	5	8	24	41.1301	1.0	70382	9010	.00540329	-.97739818	-.21133765	290	258	.9	.3	
1964	7	5	8	24	43.1487	1.0	70383	9007	-.17291117	-.70020761	0.69268393	220	261	.4	.6	
1964	7	5	8	24	43.1487	1.0	70383	9009	-.30799627	-.93715814	0.16392961	330	264	1.0	.3	
1964	7	5	8	24	43.1487	1.0	70383	9010	.00479841	-.97680247	-.21408856	290	258	.7	.3	
1964	7	5	8	24	49.1487	1.0	70384	9001	.47270796	-.83878396	-.27016412	230	253	.8	.3	
1964	7	5	8	24	49.1487	1.0	70384	9007	-.17484921	-.70414979	0.68818662	220	261	.4	.6	
1964	7	5	8	24	49.1487	1.0	70384	9009	-.30947407	-.93825248	0.15462239	330	264	.8	.3	
1964	7	5	8	24	49.1487	1.0	70384	9010	.00300411	-.97499150	-.22222185	290	258	.8	.3	
1964	7	5	8	25	1.1301	1.0	70385	9001	.46751442	-.83757801	-.28265411	230	253	.7	.3	
1964	7	5	8	25	1.1301	1.0	70385	9007	-.17875798	-.71198310	0.67906233	220	261	.4	.7	
1964	7	5	8	25	1.1301	1.0	70385	9010	-.00056250	-.97119888	-.23826964	290	258	.7	.3	
1964	7	5	8	25	15.1352	1.0	70386	9001	.46143500	-.83595337	-.29708535	230	253	.7	.3	
1964	7	5	8	25	15.1352	1.0	70386	9007	-.18339051	-.72106848	0.66815280	220	261	.4	.6	
1964	7	6	9	10	15.1495	1.0	70339	9001	.24579736	-.87197960	0.42336183	350	248	.7	.8	
1964	7	6	9	10	15.1495	1.0	70339	9009	-.53042118	-.49768779	0.68626543	240	281	1.1	.8	
1964	7	7	7	28	29.1550	1.0	70341	9007	.22513049	-.72181986	0.65444049	230	256	.4	.4	
1964	7	7	7	28	29.1550	1.0	70341	9009	.21924153	-.97552136	0.01706540	370	259	.9	.4	
1964	7	7	7	32	19.1571	1.0	70342	9007	.19799696	-.88821554	0.41457250	290	257	1.1	.4	
1964	7	7	7	32	19.1571	1.0	70342	9009	.12998533	-.92787506	-.34950206	310	257	.8	.4	
1964	7	10	7	11	59.0933	1.0	70343	9009	.18778838	-.31207688	0.93131281	230	250	1.0	.8	
1964	7	10	7	11	59.0933	1.0	70343	9010	.53870044	-.42532948	0.72725282	320	241	.5	.3	
1964	7	10	7	24	47.1194	1.0	70387	9009	.15394544	-.98803444	0.00942056	360	259	1.8	.3	
1964	7	10	7	24	47.1194	1.0	70387	9010	.40921567	-.84710538	-.33905016	270	255	.7	.5	
1964	7	10	7	25	7.1195	1.0	70388	9007	.17632624	-.75428198	0.63243004	240	256	1.3	.9	
1964	7	10	7	25	7.1195	1.0	70388	9009	.14717646	-.98879162	-.02510422	360	259	1.7	.3	
1964	7	10	7	25	7.1195	1.0	70388	9010	.39944281	-.84202505	-.36254552	270	255	.8	.6	
1964	7	10	7	25	23.1218	1.0	70389	9007	.17458391	-.76645093	0.61812089	250	256	1.3	.9	

Table 2 (Cont.)

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DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1964	7 10	7 25 23.1218	1.0	70389	9010	.39162344	-.83759940	-.38086523	260	255	1.2 1.0
1964	7 11	8 4 51.0620	1.0	70344	9001	.60939906	-.51915160	0.59926155	280	235	.8 .7
1964	7 11	8 4 51.0620	1.0	70344	9010	.08428753	-.51200417	0.85483761	330	257	.8 .4
1964	7 11	8 8 27.0467	1.0	70345	9001	.58982273	-.71774172	0.37007563	300	244	1.0 .7
1964	7 11	8 8 27.0467	1.0	70345	9010	.04197639	-.78735413	0.61507029	370	260	1.8 .6
1964	7 11	8 17 15.0401	1.0	70390	9001	.39855805	-.87416135	-.27747687	240	253	.7 .6
1964	7 11	8 17 15.0401	1.0	70390	9010	-.10718934	-.97025740	-.21705074	290	259	.8 1.0
1964	7 11	8 17 15.1617	1.0	70391	9001	.39850497	-.87414417	-.27760720	240	253	.7 .6
1964	7 11	8 17 15.1617	1.0	70391	9009	-.40298673	-.90300064	0.14896825	310	264	1.2 1.0
1964	7 11	8 17 15.1617	1.0	70391	9010	-.10721814	-.97021808	-.21721222	290	259	.8 1.0
1964	7 11	8 17 31.1613	1.0	70392	9001	.39152808	-.87172404	-.29462342	240	253	.8 .7
1964	7 11	8 17 31.1613	1.0	70392	9007	-.25954225	-.70428409	0.66077359	220	262	1.0 .5
1964	7 11	8 17 31.1613	1.0	70392	9009	-.40649752	-.90501277	0.12534613	310	264	.8 .7
1964	7 11	8 17 31.1613	1.0	70392	9010	-.11096285	-.96484743	-.23823661	280	259	.6 .7
1964	7 11	8 17 51.1578	1.0	70393	9007	-.26698037	-.71615116	0.64486355	220	262	1.0 .5
1964	7 11	8 17 51.1578	1.0	70393	9009	-.41068081	-.90671899	0.09592677	310	264	.9 .7
1964	7 11	8 17 51.1578	1.0	70393	9010	-.11551804	-.95761360	-.26387833	280	258	.5 .6
1964	7 11	8 17 59.0571	1.0	70394	9007	-.26995352	-.72077878	0.63843797	220	262	1.2 .7
1964	7 11	8 17 59.0571	1.0	70394	9010	-.11727927	-.95460602	-.27381183	270	258	.7 .8
1964	7 11	10 56 31.1563	1.0	70346	9001	-.83941068	-.49144915	0.23209361	300	269	1.5 .3
1964	7 11	10 56 31.1563	1.0	70346	9012	.07048970	-.91231792	0.40336982	250	243	.6 .4
1964	7 12	6 28 10.8865	1.0	70347	9007	.58860540	-.58585989	0.55705644	240	254	.4 .3
1964	7 12	6 28 10.8865	1.0	70347	9010	.72421963	-.57638063	-.37853837	240	255	.7 .4
1964	7 13	7 20 27.1650	1.0	70349	9007	.13549982	-.72487357	0.67542439	230	257	.4 .7
1964	7 13	7 20 27.1650	1.0	70349	9009	.10106853	-.99257842	0.06762568	370	259	.7 .8
1964	7 14	8 0 52.6378	1.0	70395	9001	.58187318	-.52372970	0.62219836	290	235	.3 .7
1964	7 14	8 0 52.6378	1.0	70395	9009	-.21007559	-.32721648	0.92130213	220	286	1.1 .4
1964	7 14	8 1 3.1441	1.0	70396	9001	.58177456	-.53486818	0.61274333	290	236	.3 .6
1964	7 14	8 1 3.1441	1.0	70396	9009	-.21287668	-.33736721	0.91698794	220	285	1.1 .5
1964	7 14	8 1 3.1441	1.0	70396	9010	.03722589	-.51730329	0.85499213	330	260	.6 .9
1964	7 14	8 1 8.6594	1.0	70397	9009	-.21436647	-.34271412	0.91465515	230	285	1.5 .7
1964	7 14	8 1 8.6594	1.0	70397	9010	.03619495	-.52473166	0.85049786	330	260	.5 .7
1964	7 14	8 5 31.1679	1.0	70350	9001	.54476610	-.77708670	0.31522398	300	245	.7 .6
1964	7 14	8 5 31.1679	1.0	70350	9010	-.02968919	-.84262090	0.53768817	380	262	.5 .3
1964	7 14	8 13 7.1634	1.0	70398	9001	.36812716	-.89325861	-.25801444	250	253	.7 .9
1964	7 14	8 13 7.1634	1.0	70398	9010	-.15650338	-.97001867	-.18593136	290	259	1.0 .7
1964	7 14	8 13 31.1251	1.0	70399	9001	.35767295	-.88955356	-.28419100	240	253	.5 .6
1964	7 14	8 13 31.1251	1.0	70399	9007	-.29255330	-.68929729	0.66278338	210	263	1.0 .7
1964	7 14	8 13 31.1251	1.0	70399	9010	-.16149737	-.96252479	-.21786378	280	259	.7 .5
1964	7 14	8 13 55.1237	1.0	70400	9001	.34727629	-.88511482	-.30979176	240	253	.7 .9
1964	7 14	8 13 55.1237	1.0	70400	9007	-.30175539	-.70303291	0.64396305	220	263	1.4 1.1
1964	7 16	7 4 7.2103	1.0	70401	9001	.79018223	-.40576766	0.45930888	240	236	.8 .5
1964	7 16	7 4 7.2103	1.0	70401	9009	.11260436	-.32265114	0.93979599	230	256	.7 .9
1964	7 16	7 4 31.2107	1.0	70402	9001	.79236587	-.42445469	0.43817182	240	237	.7 .5
1964	7 16	7 4 31.2107	1.0	70402	9009	.11468226	-.34823227	0.93036674	240	257	.6 .8
1964	7 16	7 4 31.2107	1.0	70402	9010	.46499205	-.48099254	0.74325539	330	244	1.2 .4
1964	7 16	7 7 15.2269	1.0	70404	9001	.79364456	-.53959280	0.28101232	250	242	1.4 1.3
1964	7 16	7 7 15.2269	1.0	70404	9009	.12332670	-.53163346	0.83794772	280	260	1.2 .9
1964	7 16	7 7 39.2273	1.0	70405	9001	.79181641	-.55428150	0.25651275	250	243	.9 .8
1964	7 16	7 7 39.2273	1.0	70405	9009	.12362528	-.55928423	0.81970601	290	260	.8 .6
1964	7 16	7 7 39.2273	1.0	70405	9010	.48805288	-.70086913	0.52017963	360	250	1.7 .5
1964	7 16	7 16 35.1662	1.0	70351	9007	.09046524	-.73021701	0.67719950	230	257	.7 .3
1964	7 16	7 16 35.1662	1.0	70351	9009	.03972091	-.99626761	0.07663614	360	260	.8 .4
1964	7 17	8 11 19.1774	1.0	70352	9001	.27651381	-.88014597	-.38585384	230	254	.7 .4
1964	7 17	8 11 19.1774	1.0	70352	9007	-.36754210	-.73053988	0.57552088	230	262	1.3 .5
1964	7 18	22 42 30.9457	1.0	70367	9006	.78139334	.20666502	0.58882427	290	282	.8 .7
1964	7 18	22 42 30.9457	1.0	70367	9008	.35578879	.55871770	0.74916545	360	255	.8 .5
1964	7 19	7 12 23.1712	1.0	70353	9007	.04949211	-.71861923	0.69364035	220	258	.3 .3
1964	7 19	7 12 23.1712	1.0	70353	9009	-.01470837	-.99275841	0.11922417	360	261	.7 .3
1964	7 20	7 52 59.2429	1.0	70354	9001	.52319749	-.53289054	0.66505042	290	235	.7 .8

Table 2 (Cont.)

6102801

DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PRI	A SEC	B SEC
Y	M	D	H	M	S										
1964	7	20	7	52	59.2429	1.0	70354	9010	-.04855294	-.48519701	0.87305582	320	265	.6	.6
1964	7	20	7	56	19.2446	1.0	70355	9001	.49662182	-.73927250	0.45479989	310	243	.4	.5
1964	7	20	7	56	19.2446	1.0	70355	9010	-.11023148	-.73627718	0.66764132	360	265	1.4	1.2
1964	7	20	8	6	38.6703	1.0	70407	9001	.25648682	-.90657858	-.33515637	240	254	1.2	.7
1964	7	20	8	6	38.6703	1.0	70407	9010	-.27006538	-.92643260	-.26227338	260	260	1.2	1.0
1964	7	20	8	6	54.7590	1.0	70408	9001	.24984712	-.90408257	-.35188557	240	254	1.0	.6
1964	7	20	8	6	54.7590	1.0	70408	9007	-.38799277	-.70036857	0.59912059	220	263	.6	.8
1964	7	20	8	6	54.7590	1.0	70408	9010	-.27209198	-.92016671	-.28153007	260	259	1.0	.8
1964	7	20	8	7	10.7591	1.0	70409	9001	.24332115	-.89733976	-.36820670	230	254	1.0	.5
1964	7	20	8	7	10.7591	1.0	70409	9007	-.39466272	-.70809153	0.58553200	220	263	.6	.8
1964	7	20	10	43	15.1634	1.0	70356	9001	-.85770383	-.35072334	0.37594851	300	274	1.0	.6
1964	7	20	10	43	15.1634	1.0	70356	9012	.04045968	-.83727712	0.54527978	250	240	1.2	.6
1964	7	20	10	47	55.1666	1.0	70357	9001	-.92330334	-.38400486	0.00715611	250	268	.9	.3
1964	7	20	10	47	55.1666	1.0	70357	9012	-.12003768	-.96143590	0.24745094	280	248	.8	.3
1964	7	21	8	50	23.1513	1.0	70410	9001	.01019194	-.84192637	0.53949616	370	252	1.7	.6
1964	7	21	8	50	23.1513	1.0	70410	9010	-.57043118	-.59546716	0.56570940	310	277	1.8	.7
1964	7	21	8	50	35.1691	1.0	70411	9001	.00356918	-.85295911	0.52196553	370	252	1.6	.5
1964	7	21	8	50	35.1691	1.0	70411	9009	-.63272397	-.40329066	0.66107263	220	284	1.3	.4
1964	7	21	8	50	35.1691	1.0	70411	9010	-.57585836	-.60406733	0.55089909	310	276	1.9	.8
1964	7	21	8	50	47.1554	1.0	70412	9009	-.63798509	-.41030925	0.65162976	220	283	1.2	.4
1964	7	21	8	50	47.1554	1.0	70412	9010	-.58115641	-.61239640	0.53593645	310	276	1.8	.7
1964	7	21	8	52	19.1572	1.0	70413	9009	-.67676524	-.46064920	0.57427443	230	280	.8	1.0
1964	7	21	8	52	19.1572	1.0	70413	9010	-.61726110	-.66759049	0.41630718	300	274	1.9	.7
1964	7	21	8	52	39.1573	1.0	70414	9001	-.06366023	-.94221920	0.32889262	370	254	.6	.8
1964	7	21	8	52	39.1573	1.0	70414	9009	-.68474630	-.47069397	0.55638987	230	279	.9	1.0
1964	7	21	8	52	39.1573	1.0	70414	9010	-.62399160	-.67745971	0.38946479	300	273	1.3	.4
1964	7	21	8	53	3.1557	1.0	70415	9001	-.07608656	-.95400679	0.28996876	360	254	.6	.8
1964	7	21	8	53	3.1557	1.0	70415	9009	-.69409457	-.48226967	0.53446112	230	279	1.0	1.1
1964	7	26	7	49	43.1716	1.0	70358	9009	-.42588881	-.53356326	0.73070443	260	279	1.4	.3
1964	7	26	7	49	43.1716	1.0	70358	9010	-.23626728	-.78265711	0.57586945	360	267	.7	1.1
1964	7	28	6	48	17.1660	1.0	70416	9001	.71265359	-.44941277	0.53865854	260	235	.5	.6
1964	7	28	6	48	17.1660	1.0	70416	9010	.28517108	-.47342321	0.83339542	320	247	.6	.5
1964	7	28	6	48	37.1718	1.0	70417	9001	.71413640	-.46745961	0.52104771	260	236	.5	.6
1964	7	28	6	48	37.1718	1.0	70417	9009	-.03274306	-.34266045	0.93888855	230	271	1.4	.4
1964	7	28	6	48	37.1718	1.0	70417	9010	.28686652	-.50017956	0.81702387	330	248	.6	.5
1964	7	28	6	48	43.1719	1.0	70418	9009	-.03324207	-.34892221	0.93656193	230	271	1.7	.6
1964	7	28	6	48	43.1719	1.0	70418	9010	.28732065	-.50820048	0.81189846	330	248	.6	.5
1964	7	28	6	52	35.2684	1.0	70419	9001	.70367067	-.65374975	0.27831431	270	244	.7	.8
1964	7	28	6	52	35.2684	1.0	70419	9010	.28106435	-.79532812	0.53708101	380	255	1.1	1.0
1964	7	28	6	52	59.1715	1.0	70420	9001	.69972149	-.66871091	0.25142704	270	244	.7	.8
1964	7	28	6	52	59.1715	1.0	70420	9009	-.06794687	-.62709890	0.77597048	290	267	.4	.7
1964	7	28	6	52	59.1715	1.0	70420	9010	.27747294	-.81968362	0.50112626	380	255	1.2	1.1
1964	7	28	6	53	15.1717	1.0	70421	9009	-.07102814	-.64439495	0.76138699	300	267	.6	1.1
1964	7	28	6	53	15.1717	1.0	70421	9010	.27475869	-.83516633	0.47645027	380	255	1.0	1.0
1964	7	29	7	44	31.1776	1.0	70422	9001	.38508820	-.76303111	0.51912484	330	244	.7	.7
1964	7	29	7	44	31.1776	1.0	70422	9009	-.42265246	-.45491435	0.78384809	240	283	.7	1.1
1964	7	30	0	12	59.1821	1.0	70368	9004	.11322757	.64531064	0.75548243	250	219	.3	1.4
1964	7	30	0	12	59.1821	1.0	70368	9008	.43440569	-.31687528	0.84313804	250	304	.8	.4
1964	7	30	0	17	47.1849	1.0	70369	9004	.41037290	.73040442	0.54598852	280	236	1.0	.7
1964	7	30	0	17	47.1849	1.0	70369	9008	.71782454	-.30161730	0.62749895	260	287	1.2	.8
1964	7	30	8	38	39.1499	1.0	70360	9001	-.14103128	-.79850134	0.58523994	380	255	.8	.5
1964	7	30	8	38	39.1499	1.0	70360	9010	-.64992310	-.51516219	0.55875566	290	279	.9	.6
1964	7	30	8	43	27.1682	1.0	70361	9001	-.29649056	-.94686616	0.12465080	340	257	.5	.8
1964	7	30	8	43	27.1682	1.0	70361	9010	-.74205872	-.63904387	0.20241489	260	272	1.0	.3
1964	7	31	6	44	51.3450	1.0	70362	9001	.69243667	-.48789089	0.53150159	270	236	.7	.6
1964	7	31	6	44	51.3450	1.0	70362	9010	.24126128	-.51693266	0.82132431	330	250	1.7	1.0
1964	7	31	6	48	3.3505	1.0	70363	9001	.68454636	-.64686775	0.33609284	270	243	1.0	.3
1964	7	31	6	48	3.3505	1.0	70363	9010	.23159584	-.76189517	0.60487942	370	255	.7	.8
1964	7	31	6	52	27.1324	1.0	70364	9001	.62046448	-.78372876	0.02816132	260	249	.8	.9
1964	7	31	6	52	27.1324	1.0	70364	9010	.16923846	-.96850842	0.18261923	360	258	.8	1.7

Table 2 (Cont.)

6102801

DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1964	7 31	9 32 31.1915	1.0	70365	9001	-.62691283	-.53815184	0.56335859	350	270	.7 .6
1964	7 31	9 32 31.1915	1.0	70365	9010	-.84429317	-.27713131	0.45865813	230	283	.3 .4
1964	7 31	9 36 11.2008	1.0	70366	9001	-.74520966	-.62487122	0.23280576	320	267	.6 .8
1964	7 31	9 36 11.2008	1.0	70366	9010	-.90853592	-.34185764	0.24019958	210	276	.7 .9
1964	8 1	7 37 31.3212	1.0	70424	9001	.38922073	-.55690416	0.73373359	310	236	.6 .6
1964	8 1	7 37 31.3212	1.0	70424	9010	-.21537049	-.45526175	0.86391683	310	275	.7 .4
1964	8 1	7 40 59.3370	1.0	70425	9001	.33688715	-.79131193	0.51022787	340	245	.4 .4
1964	8 1	7 40 59.3370	1.0	70425	9010	-.30644447	-.69231420	0.65329384	340	270	.4 .3
1964	8 2	8 35 39.3258	1.0	70426	9001	-.22617957	-.82569830	0.51678344	380	257	.7 .3
1964	8 2	8 35 39.3258	1.0	70426	9010	-.69671039	-.52107481	0.49302705	280	278	.7 .5
1964	8 3	6 44 39.1836	1.0	70438	9001	.65404014	-.68623404	0.31829913	280	244	.4 .4
1964	8 3	6 44 39.1836	1.0	70438	9010	.17176950	-.80021586	0.57458665	380	257	.7 .3
1964	8 3	6 45 3.1783	1.0	70439	9001	.64966154	-.70254844	0.29045752	280	244	.4 .4
1964	8 3	6 45 3.1783	1.0	70439	9009	-.15388938	-.60857628	0.77842981	280	270	.6 .4
1964	8 3	6 45 3.1783	1.0	70439	9010	.16705880	-.82546479	0.53916532	380	257	.7 .3
1964	8 3	6 45 15.1783	1.0	70440	9001	.64728027	-.71037659	0.27639347	280	245	.6 .7
1964	8 3	6 45 15.1783	1.0	70440	9009	-.15694957	-.62100772	0.76792984	290	270	.8 .7
1964	8 3	6 49 17.1832	1.0	70441	9001	.57551738	-.81766255	-.01441179	260	250	1.0 .5
1964	8 3	6 49 17.1832	1.0	70441	9010	.09687755	-.98782020	0.12176203	350	258	.7 .5
1964	8 3	6 49 45.1735	1.0	70442	9001	.56492584	-.82377326	-.04750170	260	250	1.2 .6
1964	8 3	6 49 45.1735	1.0	70442	9009	-.23370413	-.86063623	0.45242420	330	266	1.4 .3
1964	8 3	6 49 45.1735	1.0	70442	9010	.08779033	-.99326880	0.07556420	350	258	.8 .6
1964	8 3	6 49 47.1725	1.0	70443	9001	.56415667	-.82416143	-.04985167	260	250	1.4 .7
1964	8 3	6 49 47.1725	1.0	70443	9009	-.23428639	-.86196265	0.44958901	330	266	1.6 .3
1964	8 4	7 33 59.1808	1.0	70444	9009	-.40488026	-.29578853	0.86520583	210	294	.7 .4
1964	8 4	7 33 59.1808	1.0	70444	9010	-.26283356	-.46798237	0.84374820	310	277	.9 .7
1964	8 4	7 34 23.1675	1.0	70445	9001	.34281504	-.61369468	0.71123603	320	239	.6 .5
1964	8 4	7 34 23.1675	1.0	70445	9009	-.41486049	-.31539852	0.85347205	220	292	.6 .3
1964	8 4	7 34 23.1675	1.0	70445	9010	-.27400211	-.49620745	0.82383312	310	276	.8 .7
1964	8 4	7 34 43.1664	1.0	70446	9001	.33788797	-.63799440	0.69195005	330	240	.8 .7
1964	8 4	7 34 43.1664	1.0	70446	9009	-.42324979	-.33172422	0.84310062	220	291	.9 .5
1964	8 4	7 38 43.1909	1.0	70447	9001	.25531336	-.88248368	0.39501600	350	249	1.5 1.1
1964	8 4	7 38 43.1909	1.0	70447	9009	-.52603650	-.51699327	0.67528036	250	280	1.8 1.2
1964	8 4	7 39 3.1894	1.0	70448	9001	.24682705	-.89724476	0.36609869	350	249	1.1 .8
1964	8 4	7 39 3.1894	1.0	70448	9009	-.53440352	-.53091710	0.65767766	250	279	1.2 .8
1964	8 4	7 39 3.1894	1.0	70448	9010	-.39768103	-.77340126	0.49366010	340	270	.4 .6
1964	8 4	7 39 27.1844	1.0	70449	9009	-.54432653	-.54716928	0.63585722	250	278	1.3 .9
1964	8 4	7 39 27.1844	1.0	70449	9010	-.79004058	-.40655008	0.45886045	340	269	.5 .7
1964	8 4	10 20 11.1791	1.0	70461	9001	-.77256789	-.09084477	0.62839962	290	284	1.0 .6
1964	8 4	10 20 11.1791	1.0	70461	9012	.06265226	-.61330025	0.78736110	230	227	.8 .4
1964	8 4	10 23 19.1777	1.0	70462	9001	-.89627223	-.15899298	0.41402575	280	278	.3 .7
1964	8 4	10 23 19.1777	1.0	70462	9012	-.07482106	-.74462137	0.66328035	270	238	.5 .3
1964	8 4	10 26 15.2009	1.0	70463	9001	-.96013719	-.19429919	0.20095871	250	274	.5 .5
1964	8 4	10 26 15.2009	1.0	70463	9012	-.20825096	-.84581050	0.49115795	300	245	.6 1.0
1964	8 5	0 14 23.1810	1.0	70464	9004	.67704349	.67823763	0.28566734	300	245	.8 .4
1964	8 5	0 14 23.1810	1.0	70464	9008	.86938457	-.34950680	0.34930712	240	279	1.3 1.2
1964	8 5	5 45 31.1843	1.0	70450	9001	.84778110	-.41498778	0.33023075	250	240	.9 1.1
1964	8 5	5 45 31.1843	1.0	70450	9010	.61287304	-.49852826	0.61307113	330	244	1.0 .5
1964	8 5	5 45 43.1848	1.0	70451	9001	.84818022	-.42260640	0.31936522	230	240	.6 .7
1964	8 5	5 45 43.1848	1.0	70451	9009	.26218379	-.40531223	0.87577489	260	251	1.2 .3
1964	8 5	5 45 43.1848	1.0	70451	9010	.61566185	-.51156110	0.59938779	330	244	.6 .3
1964	8 5	5 46 7.1535	1.0	70452	9001	.84861590	-.43748325	0.29742135	230	241	.6 .7
1964	8 5	5 46 7.1535	1.0	70452	9010	.62067062	-.53716560	0.57115768	330	245	.6 .3
1964	8 5	5 50 51.1865	1.0	70453	9009	.30298903	-.74853638	0.58982280	350	257	.7 .7
1964	8 5	5 50 51.1865	1.0	70453	9010	.61502441	-.77049299	0.16758737	340	252	1.2 .8
1964	8 5	5 51 3.1866	1.0	70454	9001	.81574614	-.57830852	0.01083932	220	248	.6 .7
1964	8 5	5 51 3.1866	1.0	70454	9009	.30311413	-.76081470	0.57383170	350	257	.7 .7
1964	8 5	5 51 3.1866	1.0	70454	9010	.61211722	-.77657488	0.14914411	340	252	1.3 .9
1964	8 6	9 23 31.1928	1.0	70427	9001	-.62574470	-.41628057	0.65961465	340	274	.7 .5
1964	8 6	9 23 31.1928	1.0	70427	9010	-.83070110	-.20011546	0.51950889	220	286	.6 .3

Table 2 (Cont.)

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DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
Y	M	D	H	M	S										
1964	8	6	9	28	11.1837	1.0	70465	9001	-.79657443	-.54347074	0.26478054	310	269	.4	.8
1964	8	6	9	28	11.1837	1.0	70465	9012	.11808559	-.90562409	0.40730922	240	243	.7	.3
1964	8	7	7	29	27.1204	1.0	70428	9001	.31943499	-.53447368	0.78249548	310	236	.5	.9
1964	8	7	7	29	27.1204	1.0	70428	9010	-.28056287	-.40894874	0.86835788	300	280	.6	.4
1964	8	7	7	33	55.1342	1.0	70429	9001	.23155672	-.84090279	0.48914618	350	248	.8	.4
1964	8	7	7	33	55.1342	1.0	70429	9010	-.40860101	-.69139723	0.59583142	330	272	.6	.6
1964	8	7	10	15	15.1858	1.0	70466	9001	-.72788214	-.03291194	0.68491196	280	288	.8	.8
1964	8	7	10	15	15.1858	1.0	70466	9012	.08693708	-.54889210	0.83135997	220	222	.8	.4
1964	8	7	10	19	55.1888	1.0	70467	9012	-.12492661	-.74309446	0.65742221	280	239	.7	.7
1964	8	7	10	19	55.1888	1.0	70467	9001	-.91601111	-.13251573	0.37863337	270	278	1.1	.5
1964	8	7	10	24	27.1886	1.0	70468	9001	-.98362872	-.16911425	0.06224879	230	271	.5	1.0
1964	8	7	10	24	27.1886	1.0	70468	9012	-.33498110	-.87282513	0.35491401	320	249	.8	.4
1964	8	9	23	5	19.2031	1.0	70469	9004	.09616171	-.77144923	0.62898252	240	225	.7	.7
1964	8	9	23	5	19.2031	1.0	70469	9008	.47717994	-.14998114	0.86591279	270	295	1.2	.3
1964	8	9	23	8	55.1922	1.0	70470	9004	.27876049	.84097268	0.46374297	250	235	1.1	.6
1964	8	9	23	8	55.1922	1.0	70470	9008	.71514626	-.10502382	0.69103967	300	283	.8	.3
1964	8	9	23	13	27.2209	1.0	70471	9004	.46822698	.86145521	0.19661744	250	244	.3	.3
1964	8	9	23	13	27.2209	1.0	70471	9008	.92681607	-.06956168	0.36901646	290	275	.9	.9
1964	8	10	10	12	19.1895	1.0	70472	9001	-.78157112	-.02814415	0.62318095	270	286	.8	.5
1964	8	10	10	12	19.1895	1.0	70472	9012	.02622701	-.56920142	0.82177971	230	226	1.3	.5
1964	8	10	23	53	39.2037	1.0	70473	9004	-.10000312	.47717388	0.87310049	220	191	1.1	.6
1964	8	10	23	53	39.2037	1.0	70473	9008	.19750895	-.39396739	0.89765244	210	330	.6	.8
1964	8	10	23	57	3.2079	1.0	70474	9004	.11463053	.55304828	0.82522569	250	214	1.4	.8
1964	8	10	23	57	3.2079	1.0	70474	9008	.40389974	-.39766618	0.82384866	230	308	1.0	.5
1964	8	11	0	1	47.2143	1.0	70475	9004	.44180708	.62536633	0.64321338	300	235	1.1	.5
1964	8	11	0	1	47.2143	1.0	70475	9008	.66625388	-.40241637	0.62782707	240	290	1.0	1.0
1964	8	11	5	39	19.1473	1.0	70431	9001	.81608771	-.51236450	0.26736393	240	242	.6	.5
1964	8	11	5	39	19.1473	1.0	70431	9009	.18731946	-.52005366	0.83334003	280	257	.7	.8
1964	8	11	11	4	3.1936	1.0	70476	9001	-.73652749	.25493211	0.62652763	230	294	1.6	.7
1964	8	11	11	4	3.1936	1.0	70476	9012	-.07731414	-.25312764	0.96433859	220	221	1.3	.7
1964	8	11	11	7	43.1908	1.0	70477	9001	-.87379158	.21249038	0.43741984	220	285	1.0	1.0
1964	8	11	11	7	43.1908	1.0	70477	9012	-.31325937	-.34462875	0.88492915	280	244	.7	.7
1964	8	12	23	8	47.1935	1.0	70481	9004	.46402443	.84736571	0.25817181	250	242	.6	1.5
1964	8	12	23	8	47.1935	1.0	70481	9008	.89682040	-.11111553	0.42821316	290	277	.8	.5
1964	8	12	23	11	55.2054	1.0	70482	9004	.56355217	.82413774	0.05662100	240	247	.9	.9
1964	8	12	23	11	55.2054	1.0	70482	9008	.97615842	-.10131094	0.19196571	260	272	1.7	.7
1964	8	13	10	7	15.1886	1.0	70483	9001	-.72861264	.02862091	0.68432775	270	290	.8	.6
1964	8	13	10	7	15.1886	1.0	70483	9012	.06068382	-.49819869	0.86493673	220	220	1.4	.5
1964	8	13	10	10	55.1980	1.0	70484	9001	-.88629265	-.04794306	0.46063739	260	281	.5	1.4
1964	8	13	10	10	55.1980	1.0	70484	9012	-.11656448	-.64883789	0.75194555	270	236	.6	.7
1964	8	13	10	15	35.1943	1.0	70485	9001	-.98437839	-.09822035	0.14612306	230	274	.7	1.4
1964	8	13	10	15	35.1943	1.0	70485	9012	-.35861757	-.80259719	0.47668773	320	247	1.0	.7
1964	8	17	5	27	39.1317	1.0	70432	9009	.08735042	-.27980984	0.95607341	220	257	.9	.8
1964	8	17	5	27	39.1317	1.0	70432	9010	.42175324	-.40211629	0.81266641	310	240	.7	.4
1964	8	17	8	16	11.1893	1.0	70433	9001	-.45999991	-.68877695	0.56034489	370	264	.9	.8
1964	8	17	8	16	11.1893	1.0	70433	9010	-.78713770	-.38734447	0.47997761	250	281	.7	.4
1964	8	18	3	40	27.1908	1.0	70434	9009	.75502428	-.06965036	0.65198709	240	240	.7	.6
1964	8	18	3	40	27.1908	1.0	70434	9010	.93798550	-.10419161	0.33064681	240	243	1.0	.7
1964	8	18	6	24	51.2010	1.0	70456	9009	-.32799880	-.52046991	0.78837038	260	278	1.4	.6
1964	8	18	6	24	51.2010	1.0	70456	9010	-.09551909	-.76123215	0.64140605	360	264	1.0	1.0
1964	8	18	6	25	3.2011	1.0	70457	9001	.49989608	-.76167213	0.41226142	310	244	.8	.6
1964	8	18	6	25	3.2011	1.0	70457	9009	-.33233905	-.53142525	0.77919058	260	278	.9	.4
1964	8	18	6	25	3.2011	1.0	70457	9010	-.09940328	-.77411934	0.62518656	360	264	.7	.5
1964	8	18	6	25	27.1835	1.0	70458	9001	.49377170	-.78100975	0.38237845	310	245	.8	.6
1964	8	18	6	25	27.1835	1.0	70458	9010	-.10719851	-.79889586	0.59183941	360	264	.7	.5
1964	8	18	22	53	43.2035	1.0	70486	9004	.13481556	.72665663	0.67364301	250	224	.7	1.2
1964	8	18	22	53	43.2035	1.0	70486	9008	.49079394	-.22963053	0.84047078	260	298	1.0	.5
1964	8	18	23	2	51.2103	1.0	70487	9004	.57803823	.79963582	0.16264796	260	245	.8	.6
1964	8	18	23	2	51.2103	1.0	70487	9008	.93948417	-.17614163	0.29384285	260	275	1.4	1.0
1964	8	19	7	18	11.3870	1.0	70435	9009	-.60728312	-.38973085	0.69232729	220	285	.6	.8

Table 2 (Cont.)

6102801

DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1964	8 19	7 18 11.3870	1.0	70435	9010	-.54457772	-.58802644	0.59804683	310 277	.8	.7
1964	8 19	23 46 47.1574	1.0	70489	9004	.22721560	.50317891	0.83377698	270 220	.5	.7
1964	8 19	23 46 47.1574	1.0	70489	9008	.47130375	-.45578745	0.75506991	230 302	1.0	.5
1964	8 22	7 15 31.2333	1.0	70436	9001	-.04984226	-.87639497	0.47900690	370 253	.9	.6
1964	8 22	7 15 31.2333	1.0	70436	9010	-.60651924	-.61324365	0.50603027	300 276	1.0	1.2
1964	8 22	10 0 23.2040	1.0	70490	9001	-.92312282	.02712797	0.38354704	240 281	.3	1.1
1964	8 22	10 0 23.2040	1.0	70490	9012	-.25436623	-.60656983	0.75324024	290 241	1.1	1.2
1964	8 24	22 44 31.2159	1.0	70491	9004	.07067427	.65619652	0.75127310	240 217	.7	1.0
1964	8 24	22 44 31.2159	1.0	70491	9008	.39915503	-.28714837	0.87075891	250 307	1.0	1.7
1964	8 24	22 46 43.2170	1.0	70492	9004	.20279716	.70778329	0.67669500	260 226	1.1	1.1
1964	8 24	22 46 43.2170	1.0	70492	9008	.54101349	-.27488039	0.79482399	260 296	1.3	.8
1964	8 24	22 50 19.2194	1.0	70493	9004	.41269561	.76182766	0.49930046	280 237	1.0	.7
1964	8 24	22 50 19.2194	1.0	70493	9008	.74788208	-.25778249	0.61173571	270 285	1.2	1.0
1964	8 25	23 42 19.2205	1.0	70494	9004	.49059383	.46700152	0.73568150	320 236	.8	.6
1964	8 25	23 42 19.2205	1.0	70494	9008	.61783774	-.50577333	0.60205470	220 292	1.2	.3
1964	8 27	8 55 55.2086	1.0	70495	9001	-.73441649	-.16161454	0.65917612	300 283	.8	.3
1964	8 27	8 55 55.2086	1.0	70495	9012	.11819972	-.64229195	0.75729114	220 227	1.0	.5
1964	8 27	8 59 23.2060	1.0	70496	9001	-.87591885	-.24729506	0.41425997	290 276	.5	1.4
1964	8 27	8 59 23.2060	1.0	70496	9012	-.01717769	-.78653637	0.61730500	260 238	1.4	1.0
1964	8 27	22 46 31.2087	1.0	70497	9004	.43536016	.74068193	0.51171458	280 237	.4	.6
1964	8 27	22 46 31.2087	1.0	70497	9008	.74590651	-.28616082	0.60144448	260 285	.8	.7
1964	8 28	23 34 59.2089	1.0	70498	9004	.22561266	.41709065	0.88041713	280 218	.8	1.0
1964	8 28	23 34 59.2089	1.0	70498	9008	.44441376	-.50518745	0.73978514	220 303	1.6	1.0
1964	8 28	23 39 39.2179	1.0	70499	9004	.59077193	.42775986	0.68411258	330 240	1.5	.4
1964	8 28	23 39 39.2179	1.0	70499	9008	.65589849	-.52917290	0.53830587	210 289	.8	.6
1964	8 30	6 5 27.2158	1.0	70459	9001	.40241952	-.53630291	0.74191490	300 235	1.1	.7
1964	8 30	6 5 27.2158	1.0	70459	9009	-.35513446	-.27803879	0.89250991	210 295	.6	1.0
1964	8 30	6 6 .0059	1.0	70460	9001	.39728031	-.57599632	0.71442046	310 237	.9	.5
1964	8 30	6 6 .0059	1.0	70460	9010	-.20529003	-.48032276	0.85272859	310 274	.8	.8
1964	8 30	6 9 8.0010	1.0	70437	9001	.35115968	-.78325839	0.51302356	330 245	1.4	1.1
1964	8 30	6 9 8.0010	1.0	70437	9010	-.28454107	-.69388304	0.66148523	340 270	.8	.5
1964	8 30	8 51 31.2154	1.0	70500	9001	-.71919395	-.11444724	0.68531882	290 285	1.0	.4
1964	8 30	8 51 31.2154	1.0	70500	9012	.11769254	-.60358084	0.78856746	220 225	1.0	.4
1964	8 31	9 44 35.2194	1.0	70501	9001	-.77101619	.16713701	0.61449105	240 291	1.0	.9
1964	8 31	9 44 35.2194	1.0	70501	9012	-.07207075	-.37103915	0.92581626	230 223	.6	.7
1964	8 31	9 48 27.2201	1.0	70502	9001	-.91005571	.11476169	0.39828176	230 282	.8	.3
1964	8 31	9 48 27.2201	1.0	70502	9012	-.30820982	-.49476672	0.81253458	290 242	.7	.3
1964	9 1	5 11 3.2324	1.0	70503	9001	.67325256	-.59641028	0.43706413	270 240	1.0	1.0
1964	9 1	5 11 3.2324	3.0	70503	9009	-.10657880	-.46988817	0.87626826	250 272	1.5	.3
1964	9 1	5 11 23.2254	1.0	70504	9001	.67177429	-.61274399	0.41625005	270 241	.8	.9
1964	9 1	5 11 23.2254	3.0	70504	9009	-.11035395	-.49099610	0.86414399	260 272	1.6	.4
1964	9 1	5 11 23.2254	1.0	70504	9010	.20475065	-.69207974	0.69217253	360 255	.8	.9
1964	9 1	5 11 43.3137	1.0	70505	9001	.66991951	-.62867952	0.39493026	270 241	1.0	1.0
1964	9 1	5 11 43.3137	1.0	70505	9010	.20252013	-.71657275	0.66746467	360 255	.8	.8
1964	9 1	7 56 10.2153	1.0	70506	9001	-.61096144	-.48924854	0.62238411	340 271	.5	.4
1964	9 1	7 56 10.2153	1.0	70506	9010	-.83060727	-.24603104	0.49857012	230 285	.4	.5
1964	9 2	6 5 31.3773	1.0	70507	9001	.30280468	-.80486237	0.51039778	340 246	.8	.3
1964	9 2	6 5 31.3773	1.0	70507	9010	-.33467449	-.69150275	0.64016946	340 271	1.9	.3
1964	9 3	9 42 47.3211	1.0	70508	9001	-.85172386	.16151134	0.49847824	230 286	1.0	.4
1964	9 3	9 42 47.3211	1.0	70508	9012	-.21312097	-.40532048	0.88898524	260 236	.3	1.5
1964	9 3	20 39 55.3192	1.0	70515	9006	.45247275	-.15978294	0.87734704	230 314	.4	.6
1964	9 3	20 39 55.3192	1.0	70515	9008	.03667756	.03483259	0.99871990	230 262	1.1	1.0
1964	9 3	20 44 39.3216	1.0	70516	9006	.70334178	-.02247644	0.71049641	250 293	.7	.7
1964	9 3	20 44 39.3216	1.0	70516	9008	.33441105	.23165594	0.91351233	310 267	.7	.3
1964	9 3	23 32 27.3252	1.0	70517	9004	.64606597	.34223849	0.68225478	350 244	1.3	1.0
1964	9 3	23 32 27.3252	1.0	70517	9008	.65188523	-.56730717	0.50319799	200 288	.8	.3
1964	9 4	5 6 31.2644	1.0	70509	9001	.64956577	-.57790982	0.49404914	280 239	.7	.3
1964	9 4	5 6 31.2644	1.0	70509	9010	.15966620	-.62061294	0.76768092	340 255	.7	.3
1964	9 4	21 38 27.3211	1.0	70518	9004	.13258532	.81200349	0.56839376	240 229	.7	.5
1964	9 4	21 38 27.3211	1.0	70518	9008	.54136664	-.09071286	0.83587878	280 289	.7	.3

Table 2 (Cont.)

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DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	N	N	OMEGA	PHI	A SEC	B SEC
1964 9 5	6 0 23.3257	1.0	70511	9001	.28549003	-.73058986	0.62026922	340	244	.7	.3
1964 9 5	6 0 23.3257	1.0	70511	9009	-.46892666	-.38980723	0.79256426	220	287	1.6	.5
1964 9 5	8 44 3.3249	1.0	70512	9001	-.75222768	-.06269521	0.65591374	280	286	.8	.3
1964 9 5	8 44 3.3249	1.0	70512	9012	.06652074	-.58043446	0.81158538	230	225	.6	.4
1964 9 5	19 46 43.3202	1.0	70519	9006	.52548294	.17427226	0.83276459	290	288	.7	.8
1964 9 5	19 46 43.3202	1.0	70519	9008	.00788803	.44309258	0.89644116	290	236	1.0	.4
1964 9 5	22 25 35.8214	1.0	70520	9004	-.10872224	.49693640	0.86094930	220	193	1.3	.3
1964 9 5	22 25 35.8214	1.0	70520	9008	.18959382	-.37150909	0.90886478	210	332	1.6	.7
1964 9 5	22 29 15.8225	1.0	70521	9004	.11690801	.58386840	0.80338671	250	215	.4	.4
1964 9 5	22 29 15.8225	1.0	70521	9008	.41491545	-.36866801	0.83182274	230	307	1.0	.7
1964 9 6	9 36 23.3229	1.0	70513	9001	-.74888812	.21907483	0.62543809	230	293	.4	.4
1964 9 6	9 36 23.3229	1.0	70513	9012	-.07614666	-.29998009	0.95090148	220	222	1.2	1.5
1964 9 6	9 40 3.3258	1.0	70514	9001	-.88503443	.17325845	0.43208282	220	284	1.0	.6
1964 9 6	9 40 3.3258	1.0	70514	9012	-.30617789	-.40212150	0.86287508	280	243	1.0	.8
1964 9 8	22 25 55.3302	1.0	70523	9004	.15898791	.57263711	0.80424473	260	218	.6	.8
1964 9 8	22 25 55.3302	1.0	70523	9008	.44489921	-.38804557	0.80714641	230	304	.7	.6
1964 10 11	7 57 27.3683	1.0	70642	9001	-.76402656	.24331820	0.59754470	220	292	1.0	.3
1964 10 11	7 57 27.3683	1.0	70642	9012	-.13015781	-.26344111	0.95585445	230	229	.6	.6
1964 10 11	18 56 27.3627	1.0	70624	9006	.46414001	-.20094327	0.86266787	220	315	.7	.8
1964 10 11	18 56 27.3627	1.0	70624	9008	.07300887	-.02250894	0.99707726	230	316	.5	1.0
1964 10 11	18 59 7.3673	1.0	70625	9006	.60474292	-.13220204	0.78537165	230	302	.3	1.1
1964 10 11	18 59 7.3673	1.0	70625	9008	.23629064	.06866079	0.96925354	260	281	1.3	.6
1964 10 11	19 2 19.3733	1.0	70626	9006	.75764240	-.05752738	0.65012967	240	291	.5	.5
1964 10 11	19 2 19.3733	1.0	70626	9008	.45559354	.17927908	0.87194813	310	273	.7	1.0
1964 10 12	3 22 6.8726	1.0	70644	9001	.57321437	-.54568267	0.61127384	280	236	.7	.3
1964 10 12	3 22 6.8726	1.0	70644	9009	-.20468389	-.35226832	0.91324232	220	284	.3	.6
1964 10 12	8 52 55.3661	1.0	70645	9012	-.37133755	.07049659	0.92581783	260	276	1.5	.7
1964 10 12	8 52 55.3661	1.0	70645	9117	-.24063141	-.19115735	0.95160674	220	238	.7	.4
1964 10 12	19 54 15.3744	1.0	70599	9004	.12511724	.74999457	0.64950275	240	225	.8	.7
1964 10 12	19 54 15.3744	1.0	70599	9008	.49169937	-.17432455	0.85313696	260	296	.6	.7
1964 10 12	19 57 31.3746	1.0	70600	9004	.29513355	.81084814	0.50539240	250	234	.8	.8
1964 10 12	19 57 31.3746	1.0	70600	9008	.69808465	-.14022461	0.70215018	280	284	1.0	.7
1964 10 13	1 54 39.3886	1.0	70542	9009	.32357657	-.62215222	-.71289888	220	257	1.4	1.3
1964 10 13	1 54 39.3886	1.0	70542	9011	.36106643	-.90542987	0.22322138	260	256	1.1	.4
1964 10 13	1 54 51.3848	1.0	70543	9007	.51323939	-.84269780	-.16262148	340	259	1.4	1.6
1964 10 13	1 54 51.3848	1.0	70543	9009	.31690364	-.61567717	-.72146636	220	256	1.5	1.4
1964 10 13	1 54 51.3848	1.0	70543	9011	.35876307	-.90980453	0.20867248	270	256	.9	.3
1964 10 13	1 55 11.3843	1.0	70544	9007	.50500153	-.84082882	-.19488522	340	260	1.4	1.6
1964 10 13	1 55 11.3843	1.0	70544	9011	.35464968	-.91671840	0.18398636	270	256	.9	.3
1964 10 13	7 0 59.3696	1.0	70646	9001	-.77440345	.00386704	0.63268028	260	287	.7	.7
1964 10 13	7 0 59.3696	1.0	70646	9012	.00047435	-.53184535	0.84684137	230	225	.5	.7
1964 10 13	15 16 27.3733	1.0	70627	9006	-.45580600	.25475024	0.85284419	250	220	.7	.4
1964 10 13	15 16 27.3733	1.0	70627	9008	-.69465888	.35025257	0.62830898	200	223	.8	.9
1964 10 13	17 59 43.3652	1.0	70629	9006	.36953627	-.03863507	0.92841277	240	312	.3	1.0
1964 10 13	17 59 43.3652	1.0	70629	9008	-.08859151	.17658537	0.98029034	230	205	.5	.7
1964 10 13	18 5 43.3715	1.0	70630	9006	.68423718	.19785191	0.70190747	280	284	.7	.5
1964 10 13	18 5 43.3715	1.0	70630	9008	.21936646	.50784975	0.83304681	320	250	.8	1.8
1964 10 15	0 55 11.3771	1.0	70545	9007	.88651797	-.46253165	0.01226220	280	263	1.1	.7
1964 10 15	0 55 11.3771	1.0	70545	9011	.73770029	-.59518972	0.31866515	220	259	1.1	1.9
1964 10 15	0 55 23.5273	1.0	70546	9007	.88560419	-.46442395	-.00395137	280	263	1.0	.6
1964 10 15	0 55 23.5273	1.0	70546	9009	.70327750	-.39680177	-.58987212	230	262	1.0	.3
1964 10 15	0 55 23.5273	1.0	70546	9011	.73922280	-.59976306	0.30632323	230	259	1.0	1.7
1964 10 15	0 55 43.5164	1.0	70547	9007	.88361934	-.46718907	-.03084210	280	263	.9	.6
1964 10 15	0 55 43.5164	1.0	70547	9009	.69041939	-.39303387	-.60732647	230	262	1.0	.3
1964 10 15	0 59 31.3759	1.0	70676	9007	.81599960	-.46317632	-.34585018	300	267	.8	.4
1964 10 15	0 59 31.3759	1.0	70676	9009	.54116590	-.33425573	-.77162982	190	265	.7	1.2
1964 10 16	1 49 7.3605	1.0	70548	9007	.49874164	-.86623581	0.02987136	330	259	.8	.9
1964 10 16	1 49 7.3605	1.0	70548	9009	.34056706	-.70070876	-.62691412	240	256	.8	.4
1964 10 16	1 51 15.3532	1.0	70549	9007	.45561857	-.87270530	-.17549125	350	259	1.7	.7
1964 10 16	1 51 15.3532	1.0	70549	9011	.30745852	-.93049506	0.19911856	270	255	.9	1.0

Table 2 (Cont.)

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DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	b SEC
1964 10 17	2 17 11.3809	1.0	70647	9001	.72186176	-.22093388	0.65582301	220	225	.8	.7
1964 10 17	2 17 11.3809	1.0	70647	9010	.35239649	-.17926000	0.91852195	250	225	1.3	1.2
1964 10 17	2 20 23.3814	1.0	70648	9001	.75890102	-.38565772	0.52472599	240	234	1.0	.3
1964 10 17	2 20 23.3814	1.0	70648	9009	.08032298	-.28521931	0.95509066	220	258	1.4	.3
1964 10 17	18 52 19.3749	1.0	70631	9006	.65958218	-.14958808	0.73659674	230	299	1.4	.6
1964 10 17	18 52 19.3749	1.0	70631	9008	.33015137	.04233326	0.94297824	270	285	1.2	1.0
1964 10 17	18 55 31.3789	1.0	70632	9006	.80022435	-.08659645	0.59341557	230	289	.8	1.0
1964 10 17	18 55 31.3789	1.0	70632	9008	.55315557	.13432897	0.82217677	310	276	1.0	.4
1964 10 19	9 39 58.9071	1.0	70649	9012	-.39944095	.47730916	0.78270230	240	290	1.1	1.6
1964 10 19	9 39 58.9071	1.0	70649	9117	-.31834510	.25389553	0.91334192	240	283	1.7	1.2
1964 10 19	9 41 58.8916	1.0	70650	9117	-.43403323	.30710178	0.84693781	260	278	.9	1.2
1964 10 19	9 41 58.8916	1.0	70650	9012	-.49717519	.52365093	0.69181394	250	285	1.8	1.4
1964 10 22	15 9 7.3815	1.0	70633	9006	-.35688691	.56237221	0.74590162	300	240	.5	.9
1964 10 22	15 9 7.3815	1.0	70633	9008	-.64036749	.56925068	0.51563858	220	233	1.5	.6
1964 10 22	20 39 39.3843	1.0	70602	9004	.53506304	.48291717	0.69318003	310	238	.7	.5
1964 10 22	20 39 39.3843	1.0	70602	9008	.65318788	-.48501587	0.58146814	220	230	.7	.7
1964 10 22	20 43 27.3908	1.0	70603	9004	.77519474	.45650843	0.43666139	320	246	1.3	.9
1964 10 22	20 43 27.3908	1.0	70603	9008	.77948092	-.49430410	0.38480248	210	282	.4	.3
1964 10 23	2 14 59.3870	1.0	70651	9001	.72782754	-.52807728	0.43749452	250	239	1.6	.9
1964 10 23	2 14 59.3870	1.0	70651	9009	.00715572	-.43691463	0.89947451	240	266	1.8	.3
1964 10 24	0 24 19.3893	1.0	70662	9004	.11215228	-.95948005	0.25849545	210	278	1.3	.7
1964 10 24	0 24 19.3893	1.0	70662	9010	.88518966	-.12410949	0.44837049	240	240	.7	.9
1964 10 24	3 27 31.3902	1.0	70652	9001	.43913967	-.63224479	0.63829686	300	239	1.2	1.3
1964 10 24	3 27 31.3902	1.0	70652	9010	-.15029330	-.56763470	0.80944597	320	269	1.2	1.7
1964 10 24	3 10 47.3947	1.0	70653	9001	.39234911	-.81887090	0.41894227	310	246	.4	.7
1964 10 24	3 10 47.3947	1.0	70653	9010	-.22137794	-.77715229	0.58908923	340	267	.4	1.2
1964 10 24	19 40 17.3755	1.0	70604	9004	.25894877	.70876121	0.65620354	260	229	.4	1.4
1964 10 24	19 40 17.3755	1.0	70604	9008	.58739593	-.26797988	0.76349054	250	293	1.0	.6
1964 10 25	1 16 43.3864	1.0	70654	9009	.34778469	-.26199112	0.90022578	230	240	.3	.3
1964 10 25	1 16 43.3864	1.0	70654	9010	.67194697	-.34014038	0.65786913	280	239	.8	.3
1964 10 25	1 20 3.3899	1.0	70655	9009	.41295185	-.46196405	0.78489489	270	249	.7	.7
1964 10 25	1 20 3.3899	1.0	70655	9010	.72409070	-.52654166	0.44547339	310	246	1.2	.5
1964 10 25	1 30 31.4003	1.0	70656	9009	.40618937	-.91154872	-.06394628	340	257	.7	.4
1964 10 25	1 30 31.4003	1.0	70656	9010	.56682217	-.74068537	-.36069074	240	255	.8	.9
1964 10 25	1 32 51.4010	1.0	70657	9009	.34650587	-.89635528	-.27655179	310	257	.5	.5
1964 10 25	1 32 51.4010	1.0	70657	9010	.49718006	-.71156847	-.49646984	220	256	.7	.6
1964 10 25	1 40 39.4130	1.0	70677	9009	.12734209	-.65404982	-.74565597	200	253	.7	.6
1964 10 25	1 40 39.4130	1.0	70677	9011	.14488952	-.97739245	0.15398385	270	254	1.0	1.3
1964 10 25	4 3 47.5858	1.0	70658	9001	-.09342969	-.81619646	0.57017035	360	254	.6	.5
1964 10 25	4 3 47.5858	1.0	70658	9010	-.61264548	-.55397827	0.56371411	280	278	1.1	.7
1964 10 25	15 1 27.3801	1.0	70635	9006	-.33709867	.28775611	0.89641559	250	222	.7	.4
1964 10 25	15 1 27.3801	1.0	70635	9008	-.63244404	.38791999	0.67047194	200	222	1.0	1.8
1964 10 25	15 3 47.3831	1.0	70636	9006	-.32838587	.45644851	0.82693257	290	235	.8	.3
1964 10 25	15 3 47.3831	1.0	70636	9008	-.62814958	.50591652	0.59116544	210	229	1.2	.8
1964 10 25	17 45 7.4162	1.0	70557	9006	.46726239	-.07770252	0.88069755	240	308	.7	.4
1964 10 25	17 45 7.4162	1.0	70557	9008	.03529317	.13519048	0.99019085	240	236	.6	.3
1964 10 25	17 45 27.4166	1.0	70558	9006	.48518872	-.06638198	0.87188608	240	306	.8	.5
1964 10 25	17 45 27.4166	1.0	70558	9008	.05293072	.15042260	0.98720382	240	240	.7	.3
1964 10 25	17 48 27.3820	1.0	70637	9006	.64312948	.03211210	0.76508384	250	293	.6	.7
1964 10 25	17 48 27.3820	1.0	70637	9008	.22747166	.29202288	0.92896678	290	256	.8	.9
1964 10 25	17 50 39.3953	1.0	70638	9006	.74800615	.09660013	0.65662410	260	286	.7	.7
1964 10 25	17 50 39.3953	1.0	70638	9008	.36864318	.39512471	0.84141468	320	260	.4	1.1
1964 10 25	20 35 23.3832	1.0	70606	9004	.51337596	.44750119	0.73224846	310	237	.4	.3
1964 10 25	20 35 23.3832	1.0	70606	9008	.62615451	-.50269696	0.59600864	210	291	.6	.5
1964 10 25	20 37 43.3835	1.0	70607	9004	.67762655	.43693361	0.59153299	330	243	.8	.7
1964 10 25	20 37 43.3835	1.0	70607	9008	.71204888	-.51077226	0.48176560	210	286	.8	1.3
1964 10 25	23 28 11.3697	1.0	70663	9004	.41218246	-.89010662	0.19446291	240	273	1.6	.5
1964 10 25	23 28 11.3697	1.0	70663	9009	.81682586	.11387493	0.56553339	210	240	.5	.3
1964 10 26	2 9 39.3840	1.0	70659	9009	-.02385004	-.34772491	0.93729321	220	270	1.0	.9
1964 10 26	2 9 39.3840	1.0	70659	9010	.28564556	-.49965844	0.81777017	310	248	.5	.4

Table 2 (Cont.)

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DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1964 10 26	2 27 11.4047	1.0	70678	9007	-.16167424	-.89836930	0.40840426	260	258	.7	.7
1964 10 26	2 27 11.4047	1.0	70678	9010	.03922428	-.84890862	-.52708217	210	255	.7	.7
1964 10 26	2 30 19.4222	1.0	70550	9007	-.23224221	-.95734070	0.17193702	290	256	.5	.7
1964 10 26	2 30 19.4222	1.0	70550	9011	-.23585660	-.88498554	0.40146265	210	255	.7	.6
1964 10 26	2 30 43.3981	1.0	70551	9007	-.24147609	-.96037904	0.13914524	300	256	.5	.7
1964 10 26	2 30 43.3981	1.0	70551	9009	-.26914831	-.82569994	-.49576083	230	254	1.0	.4
1964 10 26	2 30 43.3981	1.0	70551	9011	-.24435125	-.89222227	0.37977873	210	255	.7	.6
1964 10 26	2 30 59.4191	1.0	70552	9009	-.27109515	-.81608551	-.51040362	230	254	1.0	.4
1964 10 26	2 30 59.4191	1.0	70552	9011	-.25010004	-.89678753	0.36499602	210	255	1.0	1.0
1964 10 26	18 41 13.3419	1.0	70561	9004	.02309188	.79805781	0.60213808	220	225	1.6	.7
1964 10 26	18 41 13.3419	1.0	70561	9006	.68806526	-.19835835	0.69801158	210	298	1.1	.8
1964 10 26	18 41 13.3419	1.0	70561	9008	.40127632	-.03249815	0.91538035	270	291	.4	.5
1964 10 26	18 41 33.4580	1.0	70562	9004	.03826913	.80649072	0.59000694	220	226	1.5	.4
1964 10 26	18 41 33.4580	1.0	70562	9006	.70305215	-.19255634	0.68457266	210	297	1.1	.7
1964 10 26	18 41 33.4580	1.0	70562	9008	.42440246	-.02498770	0.90512881	270	289	.4	.5
1964 10 26	18 41 51.5066	1.0	70563	9004	.05184945	.81382240	0.57879594	220	227	1.8	1.0
1964 10 26	18 41 51.5066	1.0	70563	9006	.71624782	-.18744374	0.67220079	210	296	1.2	.8
1964 10 26	18 43 51.4030	1.0	70565	9004	.14050585	.85646295	0.49671855	220	232	.7	.7
1964 10 26	18 43 51.4030	1.0	70565	9006	.79726026	-.15581346	0.58317943	210	290	.9	.5
1964 10 26	18 46 57.5041	1.0	70568	9004	.26796454	.89889512	0.34667358	220	238	.8	.7
1964 10 26	18 46 57.5041	1.0	70568	9008	.77512422	.07801697	0.62697352	310	275	1.5	.3
1964 10 26	18 47 21.3764	1.0	70569	9004	.28299460	.90207391	0.32584769	220	239	.8	.7
1964 10 26	18 47 21.3764	1.0	70569	9008	.79651217	.08347785	0.59883204	310	275	1.4	.3
1964 10 26	18 50 35.5284	1.0	70608	9004	.39053762	.90854647	0.14840377	220	244	.4	1.8
1964 10 26	18 50 35.5284	1.0	70608	9008	.93058999	.11276184	0.34826289	300	271	.7	.3
1964 10 27	3 6 59.4560	1.0	70660	9009	-.44047497	-.52609827	0.72746300	240	279	.8	.5
1964 10 27	3 6 59.4560	1.0	70660	9010	-.26986942	-.76386164	0.58624730	330	268	1.1	.3
1964 10 27	19 30 45.5915	1.0	70570	9004	-.06561165	.55852324	0.82688990	220	202	.6	.6
1964 10 27	19 30 45.5915	1.0	70570	9008	.23666884	-.31700423	0.91842048	220	325	.8	.4
1964 10 27	19 31 9.5063	1.0	70571	9004	-.04323497	.56906367	0.82115606	220	205	.6	.6
1964 10 27	19 31 9.5063	1.0	70571	9008	.26120803	-.31508482	0.91240995	220	322	.6	.4
1964 10 27	19 34 5.6122	1.0	70573	9004	.12927467	.64133197	0.75629450	240	219	.8	.7
1964 10 27	19 34 5.6122	1.0	70573	9008	.44411126	-.30207492	0.84351404	240	303	1.3	.5
1964 10 27	19 34 29.5254	1.0	70574	9004	.15344631	.65011605	0.74417965	250	221	.7	.6
1964 10 27	19 34 29.5254	1.0	70574	9008	.46875400	-.30045720	0.83065947	240	301	1.0	.4
1964 10 27	19 37 45.6306	1.0	70576	9004	.35135453	.70772758	0.61292060	270	233	.8	.7
1964 10 27	19 37 45.6306	1.0	70576	9008	.65948610	-.28863432	0.69409532	250	289	.8	.7
1964 10 27	19 38 9.5392	1.0	70577	9004	.37477661	.71259392	0.59308718	270	234	.8	.7
1964 10 27	19 38 9.5392	1.0	70577	9008	.68063701	-.28737738	0.67390467	250	288	.8	.7
1964 10 27	19 41 23.3030	1.0	70609	9004	.54887844	.73077324	0.40583609	280	241	.6	.7
1964 10 27	19 41 23.3030	1.0	70609	9008	.82668380	-.27880827	0.48873290	250	281	.7	.7
1964 10 27	19 45 55.3034	1.0	70610	9004	.71662490	.69074861	0.09651482	260	247	.6	.3
1964 10 27	19 45 55.3034	1.0	70610	9008	.94147384	-.27269960	0.19814625	220	274	.7	.7
1964 10 27	19 49 23.3043	1.0	70611	9004	.77179296	.62117210	-.13594429	230	251	.7	.6
1964 10 27	19 49 23.3043	1.0	70611	9008	.96181960	-.27328795	-.01472255	200	269	.9	1.0
1964 10 28	1 29 7.4100	1.0	70679	9007	.32983441	-.82923329	0.45119997	270	256	.8	1.0
1964 10 28	1 29 7.4100	1.0	70679	9009	.28925824	-.91690265	-.27498946	310	257	.4	.5
1964 10 28	17 40 .9925	1.0	70580	9006	.41102736	-.13620324	0.90139070	220	317	.5	.6
1964 10 28	17 40 .9925	1.0	70580	9008	-.00960962	.05973912	0.99816777	220	212	.7	.8
1964 10 28	17 40 24.9849	1.0	70581	9006	.43235393	-.12322328	0.89324470	230	314	.6	.7
1964 10 28	17 40 24.9849	1.0	70581	9008	.01052658	.07648105	0.99701547	230	228	.9	1.0
1964 10 28	17 43 30.3273	1.0	70583	9006	.59669481	-.02461529	0.80209064	250	297	.7	.5
1964 10 28	17 43 30.3273	1.0	70583	9008	.18399588	.21217742	0.95975323	270	258	.5	.4
1964 10 28	17 43 54.3249	1.0	70584	9006	.61736628	-.01233924	0.78657906	250	296	1.0	.7
1964 10 28	17 43 54.3249	1.0	70584	9008	.20862107	.23028847	0.95049696	280	259	.7	.5
1964 10 28	17 45 39.3771	1.0	70586	9006	.70405945	.03886751	0.70907659	250	290	.6	1.0
1964 10 28	17 45 39.3771	1.0	70586	9008	.32072864	.30936526	0.89522415	300	261	1.3	.6
1964 10 28	18 4 11.4361	1.0	70613	9002	.45195388	.67212254	0.58650574	190	254	.5	.4
1964 10 28	18 4 11.4361	1.0	70613	9008	.78748459	.40008195	-.46883094	200	256	1.4	.7
1964 10 28	20 23 39.3969	1.0	70614	9004	-.05216609	.36262121	0.93047545	220	183	1.0	.9

Table 2 (Cont.)

6102801

DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
Y	M	D	H	M	S										
1964	10	28	20	23	39.3969	1.0	70614	9008	.22515058	-.47339671	0.85158838	200	323	1.7	1.1
1964	10	28	20	27	11.3894	1.0	70589	9004	.18907851	.39758041	0.89787479	260	214	.7	.6
1964	10	28	20	27	11.3894	1.0	70589	9008	.41460397	-.49692722	0.76234302	210	305	1.3	.9
1964	10	28	23	24	35.2597	1.0	70669	9004	.38122128	-.90637330	0.18209277	230	273	.6	.4
1964	10	28	23	24	35.2597	1.0	70669	9009	.81649613	.08288280	0.57137073	210	240	.8	.3
1964	10	28	23	26	59.3696	1.0	70670	9004	.39163549	-.91472386	0.02701230	210	270	1.0	.5
1964	10	28	23	26	59.3696	1.0	70670	9009	.88948380	.01697627	0.45665126	220	245	.8	.4
1964	10	29	18	36	59.3972	1.0	70592	9004	.01829240	.77681737	0.62946021	220	224	1.1	1.3
1964	10	29	18	36	59.3972	1.0	70592	9006	.67172727	-.22334126	0.70632935	210	299	1.3	.7
1964	10	29	18	37	16.4567	1.0	70593	9004	.03156375	.78422267	0.61967615	220	224	.7	.8
1964	10	29	18	37	16.4567	1.0	70593	9006	.68452646	-.21863972	0.69542807	210	298	.8	.4
1964	10	29	18	37	16.4567	1.0	70593	9008	.40495503	-.06302443	0.91216191	260	293	1.0	.5
1964	10	29	18	37	40.4558	1.0	70594	9004	.05010438	.79431401	0.60542941	220	226	.7	.8
1964	10	29	18	37	40.4558	1.0	70594	9006	.70219710	-.21213998	0.67964392	210	297	.8	.4
1964	10	29	18	37	40.4558	1.0	70594	9008	.43236314	-.05493770	0.90002442	270	291	1.0	.5
1964	10	29	18	37	47.3965	1.0	70595	9006	.70723303	-.21028546	0.67498257	210	297	1.3	.7
1964	10	29	18	37	47.3965	1.0	70595	9008	.44030440	-.05261835	0.89630539	270	291	1.6	.8
1964	10	29	18	42	52.4986	1.0	70597	9004	.27953625	.88510170	0.37209470	230	238	.7	1.3
1964	10	29	18	42	52.4986	1.0	70597	9008	.76814301	.03504670	0.63931842	300	277	.7	.6
1964	10	29	18	43	16.4915	1.0	70598	9004	.29535278	.88853997	0.35108896	230	239	.7	1.3
1964	10	29	18	43	16.4915	1.0	70598	9008	.78980761	.04015866	0.61203858	300	276	.7	.6
1964	10	29	18	46	43.4091	1.0	70615	9004	.41452561	.89594479	0.15953511	220	244	.7	1.3
1964	10	29	18	46	43.4091	1.0	70615	9008	.93338794	.06951162	0.35207256	290	272	.6	.7
1964	10	29	18	55	55.3896	1.0	70617	9002	.63416061	.31465838	0.70627928	180	255	1.5	.8
1964	10	29	18	55	55.3896	1.0	70617	9008	.95621333	.03540021	-.29052176	200	261	1.4	1.0
1964	10	30	0	16	11.4239	1.0	70673	9004	.05188621	-.95671241	0.28637246	200	279	.6	.7
1964	10	30	0	16	11.4239	1.0	70673	9009	.59907130	-.11198972	0.79268335	220	235	.5	.7
1964	10	30	0	35	31.5392	1.0	70553	9007	.74447730	.65937257	0.10479200	290	260	1.0	1.2
1964	10	30	0	35	31.5392	1.0	70553	9009	.59533339	-.58132798	-.55464938	250	259	1.8	1.8
1964	10	30	0	35	51.5276	1.0	70554	9007	.74310839	-.66476534	0.07666136	300	260	.8	.9
1964	10	30	0	35	51.5276	1.0	70554	9009	.58261164	-.57525507	-.57414744	250	259	1.3	1.3
1964	10	30	0	35	51.5276	1.0	70554	9011	.56014749	-.73853878	0.37522694	220	257	.4	.3
1964	10	30	0	36	11.4180	1.0	70555	9009	.56990226	-.56890055	-.59292797	240	259	1.8	1.8
1964	10	30	0	36	11.4180	1.0	70555	9011	.56081557	-.74776101	0.35544250	230	257	.4	.3
1964	10	30	19	25	39.4367	1.0	70618	9004	-.12994328	.50926783	0.85074145	210	194	1.3	.8
1964	10	30	19	25	39.4367	1.0	70618	9008	.16386190	-.33840639	0.92662311	210	236	.8	.6
1964	10	30	19	34	55.4412	1.0	70619	9004	.42672701	.69534541	0.57827227	280	235	.5	.5
1964	10	30	19	34	55.4412	1.0	70619	9008	.70620853	-.31227942	0.63541410	250	287	.3	1.0
1964	10	30	19	38	15.4467	1.0	70620	9004	.60408102	.70344864	0.37449450	280	243	.5	.4
1964	10	30	19	38	15.4467	1.0	70620	9008	.84313141	-.30664007	0.44170272	240	280	1.2	.7
1964	10	31	17	37	23.3895	1.0	70639	9006	.48637888	-.11411467	0.86626406	230	309	.7	.4
1964	10	31	17	37	23.3895	1.0	70639	9008	.07289813	.08916378	0.99334570	240	256	.7	.6
1964	10	31	17	41	3.3939	1.0	70640	9006	.67617917	-.00611092	0.73671187	250	293	.7	1.0
1964	10	31	17	41	3.3939	1.0	70640	9008	.29610959	.24436706	0.92336550	290	264	1.0	.6
1964	10	31	17	44	23.3976	1.0	70641	9006	.82155445	.07579966	0.56506875	250	284	.8	.7
1964	10	31	17	44	23.3976	1.0	70641	9008	.51806913	.37848410	0.76704248	330	264	.8	.8
1964	10	31	20	24	19.3986	1.0	70621	9004	.26416798	.37383993	0.88907760	280	221	.5	.6
1964	10	31	20	24	19.3986	1.0	70621	9008	.45714202	-.51862404	0.72253047	210	302	.6	.4
1964	10	31	20	27	43.3965	1.0	70622	9004	.52798374	.37319652	0.76286141	320	239	.7	.3
1964	10	31	20	27	43.3965	1.0	70622	9008	.60656878	-.53883836	0.58457466	210	292	1.5	1.3
1964	11	2	0	25	47.3818	1.0	70683	9009	.74928782	-.65374011	-.10579051	310	256	1.2	.7
1964	11	2	0	25	47.3818	1.0	70683	9010	.77792773	-.51936958	-.35367172	220	256	1.2	.4
1964	11	2	0	29	23.4237	1.0	70684	9009	.64548462	-.65075410	-.39983585	280	258	.8	.3
1964	11	2	0	29	23.4237	1.0	70684	9010	.67295735	-.50478032	-.54067110	190	258	1.0	.5
1964	11	2	0	34	43.4266	1.0	70719	9009	.44702396	-.54441728	-.70977419	220	259	.7	.4
1964	11	2	0	34	43.4266	1.0	70719	9011	.51373817	-.83251549	0.20734284	260	257	1.1	.7
1964	11	2	2	55	31.4117	1.0	70685	9009	-.40324042	-.32402427	0.85580689	210	291	1.6	.7
1964	11	2	2	55	31.4117	1.0	70685	9010	-.26150537	-.50063225	0.82521651	300	275	.6	.8
1964	11	2	2	59	7.4174	1.0	70686	9009	-.49081178	-.48905638	0.72106009	230	281	.7	.7
1964	11	2	2	59	7.4174	1.0	70686	9010	-.35433538	-.71785165	0.59927911	320	270	.9	.6

Table 2 (Cont.)

6102801

DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1964 11 2	3 2 15.4198	1.0	70687	9009	-.56412751	-.61018336	0.55627010	240	275	.4	.7
1964 11 2	3 2 15.4198	1.0	70687	9010	-.42036813	-.83995393	0.34317347	310	268	.6	.3
1964 11 3	9 22 35.0501	1.0	70694	9005	-.77315230	-.41472799	0.47982936	260	237	.7	1.0
1964 11 3	9 22 35.0501	1.0	70694	9012	-.40955988	.62597654	0.66363701	220	287	1.1	.4
1964 11 3	9 24 43.0549	1.0	70695	9005	-.86087427	-.36582400	0.35364996	260	241	.6	.7
1964 11 3	9 24 43.0549	1.0	70695	9012	-.48620100	.67333411	0.55698273	230	283	1.1	.4
1964 11 4	1 57 47.3970	1.0	70701	9001	.63101513	-.49084779	0.60073984	260	234	.7	1.1
1964 11 4	1 57 47.3970	1.0	70701	9010	.15128749	-.49054009	0.85827817	300	253	.5	1.1
1964 11 4	2 1 35.9074	1.0	70702	9001	.61791802	-.68840081	0.37984424	270	243	1.1	.7
1964 11 4	2 1 35.9074	1.0	70702	9010	.12355853	-.76890182	0.62731434	350	258	.7	.8
1964 11 4	2 3 31.6570	1.0	70703	9001	.59486090	-.76426421	0.24907976	270	246	.5	.4
1964 11 4	2 3 31.6570	1.0	70703	9010	.09795738	-.87964493	0.46543437	350	259	.6	.3
1964 11 4	2 10 11.4080	1.0	70732	9001	.45602204	-.86511513	-.20885332	230	252	1.5	.9
1964 11 4	2 10 11.4080	1.0	70732	9010	-.01694886	-.98988959	-.14082378	290	258	.7	.7
1964 11 4	2 10 35.4078	1.0	70733	9001	.44626509	-.86382029	-.23379901	230	253	1.0	.6
1964 11 4	2 10 35.4078	1.0	70733	9009	-.31857299	-.92914363	0.18762560	300	264	.7	.7
1964 11 4	2 10 35.4078	1.0	70733	9010	-.02362106	-.98469210	-.17269486	280	258	.7	.7
1964 11 4	2 10 59.4080	1.0	70734	9009	-.32424719	-.93347163	0.15327908	300	263	1.0	1.2
1964 11 4	2 10 59.4080	1.0	70734	9010	-.03016371	-.97857251	-.20368111	270	258	.8	.9
1964 11 4	2 12 23.3732	1.0	70735	9009	-.34232145	-.93895681	0.03429481	290	262	.8	.5
1964 11 4	2 12 23.3732	1.0	70735	9010	-.05196267	-.95092513	-.30502668	250	257	.8	.3
1964 11 4	2 12 43.4100	1.0	70736	9001	.39419214	-.84610571	-.35877247	210	254	1.0	.6
1964 11 4	2 12 43.4100	1.0	70736	9009	-.34621379	-.93813374	0.00641073	290	262	.8	.5
1964 11 4	2 12 43.4100	1.0	70736	9010	-.05680848	-.94310967	-.32757877	250	257	.7	.3
1964 11 4	2 13 3.3801	1.0	70737	9001	.38616189	-.84187949	-.37698530	210	254	.9	.6
1964 11 4	2 13 3.3801	1.0	70737	9010	-.06170007	-.93492166	-.34944898	240	257	.8	.3
1964 11 4	12 59 43.3990	1.0	70696	9005	.14982737	.67999425	0.71774618	290	285	1.1	1.1
1964 11 4	12 59 43.3990	1.0	70696	9006	-.73287658	.16881989	0.65908403	220	226	.7	.6
1964 11 5	0 21 35.4203	1.0	70762	9009	.72004949	-.69095007	-.06416177	320	256	1.3	.4
1964 11 5	0 21 35.4203	1.0	70762	9010	.76604097	-.55103621	-.33096877	230	255	.3	.9
1964 11 5	0 21 56.0010	1.0	70763	9007	.63148876	-.55860728	0.53775445	220	254	.6	.3
1964 11 5	0 21 56.0010	1.0	70763	9009	.71300939	-.69467301	-.09511582	320	256	1.1	.4
1964 11 5	0 21 56.0010	1.0	70763	9010	.75672347	-.55131323	-.35131654	220	255	.3	.9
1964 11 5	0 22 16.0059	1.0	70764	9007	.63590360	-.57039635	0.51987942	230	255	.6	.3
1964 11 5	0 22 16.0059	1.0	70764	9009	.70559092	-.69751581	-.12495258	320	257	1.5	.5
1964 11 5	0 25 39.4190	1.0	70720	9007	.66674148	-.68080170	0.30325706	270	258	.5	.3
1964 11 5	0 25 39.4190	1.0	70720	9009	.60499447	-.60657511	-.40323233	280	258	.5	.5
1964 11 5	0 28 43.4199	1.0	70765	9007	.66064103	-.74885699	0.05259884	310	260	1.0	.8
1964 11 5	0 28 43.4199	1.0	70765	9011	.47865604	-.80085004	0.35989944	230	256	.6	.5
1964 11 5	0 29 7.3634	1.0	70766	9007	.65659786	-.75405330	0.01681877	320	260	1.0	.8
1964 11 5	0 29 7.3634	1.0	70766	9009	.47834538	-.61904686	-.62286972	240	258	.4	.7
1964 11 5	0 29 7.3634	1.0	70766	9011	.47778701	-.81199791	0.33522972	240	256	.7	.5
1964 11 5	0 29 23.3595	1.0	70767	9007	.65342555	-.75695458	-.00740368	320	260	1.7	1.4
1964 11 5	0 29 23.3595	1.0	70767	9009	.46843233	-.61233168	-.63688387	240	258	.4	.7
1964 11 5	0 31 59.4161	1.0	70768	9007	.60207636	-.75822469	-.25019867	340	261	1.2	1.0
1964 11 5	0 31 59.4161	1.0	70768	9011	.45851668	-.87850257	0.13414801	280	257	.8	.3
1964 11 5	0 32 23.3630	1.0	70769	9007	.59095184	-.75376911	-.28741616	340	261	1.0	.8
1964 11 5	0 32 23.3630	1.0	70769	9009	.35990470	-.52823679	-.76904779	200	258	.6	.6
1964 11 5	0 32 23.3630	1.0	70769	9011	.45373148	-.80517906	0.10288720	280	257	.7	.3
1964 11 5	0 32 43.3561	1.0	70770	9007	.58103478	-.74908697	-.31822523	340	261	1.6	1.3
1964 11 5	0 32 43.3561	1.0	70770	9009	.34835338	-.51821901	-.78108833	200	258	.5	.5
1964 11 5	19 21 31.4033	1.0	70710	9004	.08856406	.55748288	0.82545093	240	212	.7	.3
1964 11 5	19 21 31.4033	1.0	70710	9008	.38053934	-.36470430	0.84981209	220	310	.3	1.1
1964 11 5	19 28 27.4088	1.0	70711	9004	.53203168	.64954037	0.54317548	290	239	1.0	.8
1964 11 5	19 28 27.4088	1.0	70711	9008	.74635757	-.36255599	0.55812501	240	285	1.1	.8
1964 11 6	1 9 2.4422	1.0	70738	9009	.24756952	-.79656669	0.55153499	330	258	1.2	.7
1964 11 6	1 9 2.4422	1.0	70738	9010	.55385542	-.81966958	0.14623937	320	253	1.0	.8
1964 11 6	1 9 20.4719	1.0	70739	9001	.78090362	-.62462484	-.00577456	210	249	1.0	.8
1964 11 6	1 9 20.4719	1.0	70739	9009	.24645408	-.81295609	0.52760097	330	258	1.0	.6
1964 11 6	1 9 20.4719	1.0	70739	9010	.54898803	-.82721608	0.11969002	320	253	1.0	.9

Table 2 (Cont.)

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DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1964 11 6	1 9 41.4662	1.0	70740	9001	.77575572	-.63050018	-.02593426	210	249	1.0	.8
1964 11 6	1 9 41.4662	1.0	70740	9009	.24480207	-.83134567	0.49890186	340	258	1.0	.6
1964 11 6	1 14 47.4266	1.0	70772	9007	.19740975	-.74760794	0.63412283	230	256	.4	.5
1964 11 6	1 14 47.4266	1.0	70772	9009	.17964259	-.98355459	0.01867909	340	258	.4	.7
1964 11 6	1 14 47.4266	1.0	70772	9010	.42002904	-.85021628	-.31734505	260	255	.6	.5
1964 11 6	1 15 7.4866	1.0	70773	9007	.19563371	-.76199690	0.61732340	230	256	.4	.5
1964 11 6	1 15 7.4866	1.0	70773	9010	.41084375	-.84595729	-.33994658	250	255	.8	.8
1964 11 6	1 18 19.4716	1.0	70721	9007	.16794011	-.88981717	0.42428943	270	257	.8	.8
1964 11 6	1 18 19.4716	1.0	70721	9010	.32365007	-.78502913	-.52818548	210	256	.5	.7
1964 11 6	1 20 59.4252	1.0	70722	9007	.12780430	-.96772710	0.21718729	310	257	.7	.7
1964 11 7	1 20 59.4252	1.0	70722	9009	.04736578	-.87006020	-.49066458	260	255	.5	.7
1964 11 7	1 56 59.5006	1.0	70688	9009	-.19570645	-.50554019	0.84031429	250	275	1.1	.7
1964 11 7	1 56 59.5006	1.0	70688	9010	.07945049	-.71832544	0.69115569	340	259	.6	.8
1964 11 7	18 30 3.6301	1.0	70713	9004	.28302127	.82995685	0.48069802	240	235	1.5	.7
1964 11 7	18 30 3.6301	1.0	70713	9008	.70569405	-.08973245	0.70281149	280	283	.3	.8
1964 11 8	0 24 3.4498	1.0	70723	9007	.62326034	-.76994630	0.13685483	300	259	.8	.5
1964 11 8	0 24 3.4498	1.0	70723	9009	.48584863	-.67944769	-.54981992	260	258	.5	.7
1964 11 8	2 54 47.3496	1.0	70704	9001	.08292145	-.97019021	0.22771691	330	252	.8	.3
1964 11 8	2 54 47.3496	1.0	70704	9010	-.50558588	-.79662372	0.33132094	300	269	1.0	.3
1964 11 8	2 57 23.3245	1.0	70705	9001	.01547849	-.99987263	0.00389103	300	254	.8	.7
1964 11 8	2 57 23.3245	1.0	70705	9009	-.66909483	-.64120195	0.37572885	240	272	.7	.4
1964 11 9	1 0 11.3892	1.0	70689	9009	.18847347	-.49325990	0.84921871	260	256	.6	.5
1964 11 9	1 0 11.3892	1.0	70689	9010	.53452528	-.61615714	0.57847481	330	248	1.0	.3
1964 11 9	1 4 3.3744	1.0	70706	9001	.78074798	-.61881583	0.08660000	220	247	.6	.4
1964 11 9	1 4 3.3744	1.0	70706	9010	.52397543	-.81069616	0.26119243	330	252	.4	.5
1964 11 9	1 7 11.3971	1.0	70690	9009	.17586417	-.90380015	0.39015008	340	259	1.0	1.1
1964 11 9	1 7 11.3971	1.0	70690	9010	.46990073	-.88255722	-.01691323	310	254	.3	.9
1964 11 9	1 13 7.4394	1.0	70726	9007	.13218705	-.84449791	0.51898927	250	257	.5	.7
1964 11 9	1 13 7.4394	1.0	70726	9009	.07738242	-.98216478	-.17136016	310	258	.7	1.0
1964 11 9	1 16 19.4362	1.0	70727	9007	.08670445	-.95206125	0.29336277	290	257	.7	.3
1964 11 9	1 16 19.4362	1.0	70727	9009	.01319411	-.90589507	-.42329663	270	256	1.0	.5
1964 11 9	1 19 19.4225	1.0	70728	9007	.02547689	-.99910745	0.03369320	330	256	.8	.8
1964 11 9	1 19 19.4226	1.0	70728	9009	-.04179578	-.79749464	-.60187658	230	253	.6	1.0
1964 11 10	2 8 23.4660	1.0	70691	9009	-.45661055	-.86076515	-.22492257	250	259	.4	.5
1964 11 10	2 8 23.4660	1.0	70691	9010	-.18822908	-.84488763	-.50073417	200	256	.6	.6
1964 11 10	4 34 19.3809	1.0	70682	9010	-.75620367	-.09786209	0.64697683	210	293	.8	.6
1964 11 10	4 34 19.3809	1.0	70682	9114	-.60932501	-.66806658	0.42709493	300	265	1.2	1.0
1964 11 11	0 14 26.8890	1.0	70692	9009	.62577536	-.77441641	-.09319025	330	257	.9	.4
1964 11 11	0 14 26.8890	1.0	70692	9010	.70235342	-.61447106	-.35932966	230	255	.5	.7
1964 11 11	0 20 42.9117	1.0	70729	9009	.42796559	-.69705418	-.57529203	250	257	.8	1.0
1964 11 11	0 20 42.9117	1.0	70729	9011	.39365998	-.83009097	0.39494405	230	256	1.0	.3
1964 11 11	2 48 15.3728	1.0	70741	9009	-.57853054	-.46720388	0.66859775	220	282	.8	.6
1964 11 11	2 48 15.3728	1.0	70741	9010	-.48727991	-.68245425	0.54480683	300	273	.5	.5
1964 11 11	2 48 35.4153	1.0	70742	9001	.09721940	-.88989427	0.44568663	340	251	.5	.4
1964 11 11	2 48 35.4153	1.0	70742	9009	-.58673880	-.47932979	0.65267184	220	281	.9	.7
1964 11 11	2 48 35.4153	1.0	70742	9010	-.49524807	-.69609795	0.51978553	300	273	.5	.4
1964 11 11	2 48 55.3822	1.0	70743	9001	.08788744	-.90434631	0.41765243	340	251	.5	.4
1964 11 11	2 48 55.3822	1.0	70743	9010	-.50290879	-.70895303	0.49443741	300	272	.5	.5
1964 11 13	1 46 42.5535	1.0	70707	9001	.54800395	-.54905568	0.63105430	280	236	.7	.7
1964 11 13	1 46 42.5535	1.0	70707	9010	.01340309	-.52368263	0.85180799	310	261	.7	1.0
1964 11 13	1 53 2.5573	1.0	70744	9001	.47609504	-.85295131	0.21402704	290	248	.6	.3
1964 11 13	1 53 2.5573	1.0	70744	9009	-.33938928	-.68582587	0.64378396	270	272	.8	.5
1964 11 13	1 53 26.5571	1.0	70745	9001	.46811497	-.86430470	0.18397217	280	248	.6	.3
1964 11 13	1 53 26.5571	1.0	70745	9009	-.34744593	-.70420099	0.61917872	270	271	.7	.4
1964 11 13	1 53 26.5571	1.0	70745	9010	-.09515342	-.92857806	0.35873195	340	262	.8	.7
1964 11 13	1 53 38.4216	1.0	70746	9009	-.35141724	-.71304398	0.60669119	280	271	1.1	.7
1964 11 13	1 53 38.4216	1.0	70746	9010	-.09864854	-.93506840	0.34046373	340	262	.8	.7
1964 11 13	1 56 11.6913	1.0	70748	9001	.40646261	-.91341222	-.02159312	270	251	.6	.7
1964 11 13	1 56 11.6913	1.0	70748	9009	-.40057074	-.80984614	0.42859341	290	268	.8	.7
1964 11 13	1 56 34.5600	1.0	70749	9001	.39728752	-.91637087	-.04926515	260	251	.6	.7

Table 2 (Cont.)

6102801

DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A	
Y	M	D	H	M	S									SEC	SLC
1964	11	13	1	56	34.5600	1.0	70749	9009	-.40737527	-.82109663	0.39980710	290	268	.8	.8
1964	11	14	0	13	27.4249	1.0	70730	9007	.53631258	-.74861988	0.38979109	270	257	1.4	1.1
1964	11	14	0	13	27.4249	1.0	70730	9009	.50074439	-.79940914	-.33196398	300	257	.8	.4
1964	11	14	19	10	23.4565	1.0	70714	9004	.13060037	.49751731	0.85756636	250	212	.3	.3
1964	11	14	19	10	23.4565	1.0	70714	9008	.39776024	-.41874496	0.81635743	220	308	1.3	1.2
1964	11	14	19	12	31.4466	1.0	70715	9004	.27717382	.52851257	0.80240210	270	224	.5	.8
1964	11	14	19	12	31.4466	1.0	70715	9008	.51442991	-.42445301	0.74511845	220	299	1.0	.8
1964	11	14	19	19	51.4557	1.0	70716	9004	.74333797	.53962259	0.39529245	310	245	1.4	.7
1964	11	14	19	19	51.4557	1.0	70716	9008	.81253676	-.43783530	0.38481718	210	281	.3	.3
1964	11	17	19	5	23.4623	1.0	70717	9004	.05753034	.45554065	0.88835408	230	203	1.0	.9
1964	11	17	19	5	23.4623	1.0	70717	9008	.32970347	-.43141577	0.83974761	210	314	1.0	1.1
1964	11	18	0	46	19.5184	1.0	70693	9009	.06009020	-.36650588	0.92847327	230	262	.4	.3
1964	11	18	0	46	19.5184	1.0	70693	9010	.38715872	-.50708363	0.77004826	310	246	.7	.3
1964	11	22	1	36	5.4915	1.0	70750	9001	.44529229	-.62996322	0.63628698	290	239	.8	.3
1964	11	22	1	36	5.4915	1.0	70750	9009	-.32493860	-.37767037	0.86705248	220	286	.9	.3
1964	11	22	1	36	33.4919	1.0	70751	9001	.44072214	-.65916597	0.60931455	300	240	.9	.4
1964	11	22	1	36	33.4919	1.0	70751	9009	-.33468321	-.40163686	0.85245233	220	285	.8	.3
1964	11	22	1	36	33.4919	1.0	70751	9010	-.14405022	-.60302187	0.78461083	320	267	.4	.6
1964	11	22	1	36	55.4294	1.0	70752	9001	.43672359	-.68147986	0.58724587	300	241	.9	.4
1964	11	22	1	36	55.4294	1.0	70752	9010	-.15162489	-.62804303	0.76326394	320	267	.4	.6
1964	11	22	1	39	19.6152	1.0	70753	9001	.40157885	-.81174461	0.42403433	310	246	.5	.7
1964	11	22	1	39	19.6152	1.0	70753	9009	-.39524241	-.53985930	0.74319269	240	278	1.0	.3
1964	11	22	1	39	35.6107	1.0	70754	9001	.39678124	-.82407829	0.40430140	310	246	.5	.7
1964	11	22	1	39	35.6107	1.0	70754	9009	-.40121110	-.55253248	0.73057341	240	278	.8	.3
1964	11	22	1	39	35.6107	1.0	70754	9010	-.20806327	-.79079986	0.57562597	340	266	.9	.8
1964	11	22	1	39	59.4322	1.0	70755	9001	.38933336	-.84155111	0.37444795	310	247	.4	.6
1964	11	22	1	39	59.4322	1.0	70755	9010	-.21629875	-.81098975	0.54360875	340	266	.9	.8
1964	11	22	1	42	35.6452	1.0	70756	9001	.33308605	-.92744684	0.16998836	300	250	1.0	.4
1964	11	22	1	42	35.6452	1.0	70756	9009	-.46719183	-.68092861	0.56397520	260	273	1.2	.3
1964	11	22	1	42	55.6463	1.0	70757	9001	.32519411	-.93471218	0.14339432	290	250	.7	.3
1964	11	22	1	42	55.6463	1.0	70757	9009	-.47416425	-.69312965	0.54289921	260	272	1.3	.4
1964	11	22	1	42	55.6463	1.0	70757	9010	-.27180495	-.91825383	0.28797912	320	264	.4	.4
1964	11	22	1	43	19.4317	1.0	70758	9001	.31566006	-.94225981	0.11182655	290	250	.7	.3
1964	11	22	1	43	19.4317	1.0	70758	9010	-.27830070	-.92674175	0.25238552	320	264	.5	.5
1964	11	22	1	49	35.4985	1.0	70759	9001	.16512134	-.92704262	-.33664064	230	254	1.4	.3
1964	11	22	1	49	35.4985	1.0	70759	9009	-.57650022	-.81447428	0.06541516	250	264	.7	.6
1964	11	22	1	50	3.5005	1.0	70760	9001	.15504923	-.91824390	-.36440071	220	254	1.2	.3
1964	11	22	1	50	3.5005	1.0	70760	9009	-.58037692	-.81373919	0.03148272	250	264	.7	.6
1964	11	22	1	50	3.5005	1.0	70760	9010	-.34629758	-.89416781	-.28379907	240	259	.7	.7
1964	11	22	1	50	27.5008	1.0	70761	9001	.14660362	-.91013668	-.38750304	220	254	1.2	.3
1964	11	22	1	50	27.5008	1.0	70761	9010	-.34817050	-.88494667	-.30926800	230	259	1.0	1.2
1964	11	24	8	55	7.4215	1.0	70697	9005	-.74381325	-.21932070	0.63137966	290	237	.6	1.0
1964	11	24	8	55	7.4215	1.0	70697	9117	-.21450383	.58107173	0.78507563	210	292	1.0	.4
1964	11	24	8	58	21.3443	1.0	70698	9005	-.89662617	-.11221943	0.42833201	300	244	1.1	1.0
1964	11	24	8	58	21.3443	1.0	70698	9117	-.32677036	.68704280	0.64899409	220	283	1.0	.7
1964	11	25	1	34	3.0082	1.0	70708	9001	.38579934	-.74597390	0.54284603	310	244	.6	.7
1964	11	25	1	34	3.0082	1.0	70708	9010	-.21791946	-.67832260	0.70170475	320	268	.8	.8
1964	11	29	5	9	15.5386	1.0	70709	9001	-.88337035	.11048675	0.45546625	220	283	1.5	1.0
1964	11	29	5	9	15.5386	1.0	70709	9012	-.27029158	-.46706533	0.84189812	260	240	.9	1.0
1964	11	29	18	54	51.6966	1.0	70718	9004	.41662914	.38383630	0.82406908	290	233	.8	.4
1964	11	29	18	54	51.6966	1.0	70718	9008	.55068360	-.52152316	0.65173704	210	295	1.2	.4
1964	11	30	0	43	7.4304	1.0	70731	9007	-.13595944	-.71149071	0.68941715	200	261	.5	.7
1964	11	30	0	43	7.4304	1.0	70731	9010	-.04565349	-.98268562	-.17956818	280	257	.8	.9
1964	11	30	0	46	35.4266	1.0	70774	9007	-.20249725	-.83276436	0.51526535	240	259	.7	.5
1964	11	30	0	46	35.4266	1.0	70774	9009	-.30019392	-.94741843	-.11082386	280	260	.8	.3
1964	11	30	0	46	59.4264	1.0	70775	9007	-.21104892	-.84486962	0.49158283	240	259	.7	.5
1964	11	30	0	46	59.4264	1.0	70775	9009	-.30444835	-.94178142	-.14268482	280	260	.8	.3
1964	11	30	0	46	59.4264	1.0	70775	9010	-.01975416	-.89710582	-.44137390	230	256	.5	.3
1964	11	30	0	47	7.4754	1.0	70776	9009	-.30583036	-.93967504	-.15322732	280	259	1.3	.5
1964	11	30	0	47	7.4754	1.0	70776	9010	-.02179212	-.89325681	-.44901823	220	256	.6	.3

Table 2 (Cont.)

6102801

DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
Y	M	D	H	M	S										
1964	11	30	6	8	56.0235	1.0	70699	9012	-.84864277	-.05721891	0.52586257	340	263	1.1	.7
1964	11	30	6	8	56.0235	1.0	70699	9117	-.69086372	-.37857892	0.61594263	320	252	1.0	.3
1964	12	1	1	38	18.9162	1.0	70778	9001	.02770690	-.94081869	-.33777584	230	254	1.5	1.1
1964	12	1	1	38	18.9162	1.0	70778	9007	-.52757704	-.64429338	0.55366823	200	264	1.6	.7
1964	12	1	1	38	18.9162	1.0	70778	9010	-.47146788	-.85057308	-.23290228	230	261	.8	1.1
1964	12	1	1	38	38.9163	1.0	70779	9007	-.53572236	-.65102332	0.53774547	200	264	1.5	.6
1964	12	1	1	38	38.9163	1.0	70779	9010	-.47200580	-.84412845	-.25427875	230	261	.9	1.2
1964	12	1	1	40	22.9341	1.0	70780	9007	-.57763997	-.68125749	0.44968911	210	262	.5	.4
1964	12	1	1	40	22.9341	1.0	70780	9010	-.47254437	-.80549230	-.35760869	210	259	.3	.5
1964	12	1	1	40	42.9140	1.0	70781	9010	-.47226108	-.79726026	-.37595951	210	259	.3	.5
1964	12	1	1	40	42.9140	1.0	70781	9007	-.58554299	-.68607059	0.43179457	210	261	.4	.3
1964	12	1	1	40	42.9140	1.0	70781	9001	-.01342037	-.88077733	-.47334046	210	255	1.0	.8
1964	12	1	1	41	6.9141	1.0	70782	9001	-.01943228	-.86948612	-.49357499	200	255	1.0	.8
1964	12	1	1	41	6.9141	1.0	70782	9007	-.59494527	-.69138481	0.40991117	210	261	.4	.3
1964	12	2	5	2	17.0732	1.0	70786	9001	-.76798413	.17554432	0.61594202	230	291	.8	1.2
1964	12	2	5	2	17.0732	1.0	70786	9012	-.10410392	-.34370125	0.93329086	220	226	1.5	.8
1964	12	2	18	48	12.0003	1.0	70787	9004	.20448610	.34672667	0.91540486	260	216	.4	.5
1964	12	2	18	48	12.0003	1.0	70787	9008	.41225859	-.51855009	0.74909856	200	305	1.0	.8
1964	12	2	18	51	31.9981	1.0	70788	9004	.45849927	.34715747	0.81808319	300	236	.6	1.3
1964	12	2	18	51	31.9981	1.0	70788	9008	.56229583	-.54131814	0.62513844	200	294	1.3	1.0
1964	12	4	1	25	3.4675	1.0	70783	9001	.20356772	-.89124831	0.40526119	330	249	.8	.7
1964	12	4	1	25	3.4675	1.0	70783	9010	-.40685074	-.75423094	0.51537187	310	270	.7	.6
1964	12	4	1	25	26.9402	1.0	70784	9001	.19380810	-.90726172	0.37324870	330	250	.7	.7
1964	12	4	1	25	26.9402	1.0	70784	9009	-.54210935	-.53985536	0.64395158	230	278	.5	1.0
1964	12	4	1	25	26.9402	1.0	70784	9010	-.41545931	-.76989044	0.48441952	310	270	.7	.5
1964	12	4	1	25	46.9298	1.0	70785	9009	-.54992696	-.55217681	0.62664273	230	278	.5	.9
1964	12	4	1	25	46.9298	1.0	70785	9010	-.42253363	-.78232778	0.45763367	310	269	.8	.7
1964	12	4	7	0	43.4872	1.0	70790	9012	-.80892097	.48994302	0.32496569	270	271	1.0	1.0
1964	12	4	7	0	43.4872	1.0	70790	9117	-.83044357	.26503787	0.49001878	320	265	1.5	.3
1964	12	4	7	3	51.4839	1.0	70791	9012	-.84888914	.52036799	0.09275981	250	267	.7	.4
1964	12	4	7	3	51.4839	1.0	70791	9117	-.91944496	.32774597	0.21726377	320	263	1.0	.6
1964	12	5	18	44	3.6973	1.0	70792	9004	.18185061	.31707414	0.93080306	260	213	.8	1.0
1964	12	5	18	44	3.6973	1.0	70792	9008	.39093169	-.53037671	0.75224528	200	306	1.2	1.0
1964	12	5	18	47	23.7645	1.0	70793	9004	.43656626	.31180289	0.84391283	300	235	.4	.8
1964	12	5	18	47	23.7645	1.0	70793	9008	.53996826	-.55560387	0.63224886	200	295	1.5	.7
1965	1	18	10	44	28.2519	1.0	71021	9001	.10337970	-.42627029	0.89866917	300	86	1.0	.3
1965	1	18	10	44	28.2519	1.0	71021	9114	.03967194	-.87175103	0.48834033	320	95	1.2	.4
1965	2	2	10	21	7.2271	1.0	71028	9001	-.08421749	-.75141304	0.65443553	360	99	.9	.7
1965	2	2	10	21	7.2271	1.0	71028	9010	-.60071270	-.49821679	0.62523938	270	122	.6	.3
1965	2	2	10	21	31.1174	1.0	71029	9001	-.08722106	-.72364693	0.68463684	350	99	1.3	1.1
1965	2	2	10	21	31.1174	1.0	71029	9010	-.59821044	-.47465923	0.64563371	270	123	.7	.4
1965	2	5	15	50	3.7095	1.0	71022	9005	-.77706262	-.43688663	0.45310458	250	79	.7	1.4
1965	2	5	15	50	3.7095	1.0	71022	9117	-.37573065	.43542837	0.81806394	230	128	.8	.5
1965	2	9	5	38	19.7528	1.0	71023	9004	.15813371	-.81644584	0.55534667	260	126	.6	.7
1965	2	9	5	38	19.7528	1.0	71023	9010	.79039352	.14091553	0.59617187	210	71	1.1	1.7
1965	2	25	14	30	39.7979	1.0	71024	9005	-.71184017	-.51638933	0.47605213	240	77	1.1	.7
1965	2	25	14	30	39.7979	1.0	71024	9012	-.42719660	.53157965	0.73138645	220	130	.8	1.1
1965	2	25	14	33	11.7948	1.0	71025	9005	-.60815767	-.49695120	0.61901838	240	71	1.1	1.4
1965	2	25	14	33	11.7948	1.0	71025	9012	-.29171829	.52230986	0.80130696	200	139	1.9	.5
1965	2	27	13	36	43.9756	1.0	71026	9005	-.46353409	-.66233093	0.58860334	210	67	1.7	1.2
1965	2	27	13	36	43.9756	1.0	71026	9012	-.24712291	.29462289	0.92310759	200	148	.3	.9
1965	3	2	7	57	55.6593	1.0	71067	9010	-.21921600	-.47829736	0.85039754	280	120	.7	.3
1965	3	2	7	57	55.6593	1.0	71067	9114	.28174444	-.91263297	0.29617754	260	92	.4	.6
1965	3	5	10	39	15.7512	1.0	71031	9001	-.78644482	-.14241237	0.60101852	270	123	1.8	.5
1965	3	5	10	39	15.7512	1.0	71031	9114	-.83865152	-.49523160	0.22673617	260	114	1.5	.5
1965	3	5	10	39	37.7024	1.0	71032	9001	-.77485131	-.12431481	0.61979938	270	124	1.2	.3
1965	3	5	10	39	37.7024	1.0	71032	9012	.03803500	-.62974805	0.77586773	240	73	.8	.6
1965	3	5	10	39	37.7024	1.0	71032	9114	-.83917706	-.48235086	0.25123596	260	115	1.4	.5
1965	3	5	10	40	1.6605	1.0	71033	9001	-.76166355	-.10451191	0.63948878	260	125	1.6	.4
1965	3	5	10	40	1.6605	1.0	71033	9012	.04502973	-.60853104	0.79225141	240	72	1.1	.7

Table 2 (Cont.)

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DATE Y M D	TIME H M S			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1965	3	5	10 43 17.6960	1.0	71034	9001	-.63878259	.05486200	0.76742880	240	137	1.5	.4
1965	3	5	10 43 17.6960	1.0	71034	9012	.10716720	-.43164920	0.89565292	210	58	1.0	.3
1965	3	5	10 43 41.6529	1.0	71035	9001	-.62253156	.07360188	0.77912593	230	139	1.2	.3
1965	3	5	10 43 41.6529	1.0	71035	9012	.11517039	-.41017359	0.90470625	210	56	.7	.3
1965	3	5	10 43 41.6529	1.0	71035	9114	-.80021320	-.29762169	0.52065359	290	121	.8	.4
1965	3	6	6 7 59.8702	1.0	71068	9001	.63680932	-.08782114	0.76600348	220	56	1.0	.6
1965	3	6	6 7 59.8702	1.0	71068	9114	.70340644	-.43960096	0.55854308	250	74	.5	.8
1965	3	6	11 34 11.7479	1.0	71069	9001	-.83296872	.16545793	0.52800264	220	127	.8	.8
1965	3	6	11 34 11.7479	1.0	71069	9117	-.07957475	-.54661920	0.83359181	220	70	.6	.4
1965	3	6	11 36 43.7225	1.0	71070	9001	-.73918168	.24613336	0.62692010	210	134	.8	1.0
1965	3	6	11 36 43.7225	1.0	71070	9117	-.00394910	-.42891776	0.90333491	200	59	1.0	.4
1965	3	6	11 37 7.7124	1.0	71071	9001	-.72317473	.25854905	0.64044570	210	135	1.0	1.3
1965	3	6	11 37 7.7124	1.0	71071	9114	-.91021764	-.02307991	0.41348660	250	123	1.3	.3
1965	3	6	11 37 7.7124	1.0	71071	9117	.00821814	-.41072942	0.91172025	200	57	1.0	.5
1965	3	6	11 37 19.7566	1.0	71072	9114	-.90528298	-.01487711	0.42454846	250	124	1.5	.4
1965	3	6	11 37 19.7566	1.0	71072	9117	.01433430	-.40166230	0.91567567	200	56	1.3	.6
1965	3	7	6 58 3.4214	1.0	71073	9001	.57363151	-.39060548	0.71998212	260	71	.4	.5
1965	3	7	6 58 3.4214	1.0	71073	9114	.53753687	-.75418330	0.37717591	250	85	.6	.4
1965	3	7	7 0 43.4365	1.0	71074	9001	.49158856	-.25107803	0.83384681	250	62	.7	.5
1965	3	7	7 0 43.4365	1.0	71074	9114	.50094393	-.66296532	0.55635615	280	81	1.3	1.0
1965	3	7	9 42 19.8509	1.0	71037	9012	.26287681	-.68005289	0.68441497	210	69	1.1	.6
1965	3	7	9 42 19.8509	1.0	71037	9114	-.59190579	-.74276974	0.31295471	290	109	1.3	.3
1965	3	8	10 39 15.7430	1.0	71039	9012	.08056134	-.43219403	0.89817492	220	60	.6	.5
1965	3	8	10 39 15.7430	1.0	71039	9114	-.82897072	-.30413139	0.46937367	290	120	.7	.7
1965	3	8	13 24 27.7740	1.0	71075	9012	-.30842666	.36728771	0.87748090	200	142	.6	.4
1965	3	8	13 24 27.7740	1.0	71075	9117	-.21376626	.13564177	0.96742198	200	135	1.0	.3
1965	3	11	18 51 19.7777	1.0	71076	9005	.47311353	.70896886	0.52299784	230	127	.9	1.1
1965	3	11	18 51 19.7777	1.0	71076	9008	-.70028860	.46281048	0.54350928	200	71	.8	.9
1965	3	12	11 29 15.8929	3.0	71077	9001	-.74294529	.28420219	0.60602097	200	133	1.4	1.0
1965	3	12	11 29 15.8929	1.0	71077	9117	-.03473110	-.38752999	0.92120261	200	60	1.5	1.2
1965	3	12	14 12 43.9682	1.0	71078	9005	-.73099755	-.37366335	0.57098011	260	77	1.2	1.1
1965	3	12	14 12 43.9682	1.0	71078	9117	-.27668169	.47018692	0.83807607	200	135	.5	.5
1965	3	22	6 36 19.9192	1.0	71040	9001	.50951964	-.61539983	0.60139237	290	81	1.2	1.1
1965	3	22	6 36 19.9192	1.0	71040	9009	-.26625989	-.39433268	0.87454955	200	130	1.2	.5
1965	3	22	6 36 43.9009	1.0	71041	9001	.50051472	-.59655195	0.62738408	290	81	.8	.7
1965	3	22	6 36 43.9009	1.0	71041	9009	-.26985840	-.37290465	0.88776042	200	132	.8	.3
1965	3	22	6 36 43.9009	1.0	71041	9114	.40458096	-.88836845	0.21706161	230	91	.8	.3
1965	3	22	6 37 7.7648	1.0	71042	9001	.49124626	-.57699594	0.65249735	290	80	1.2	1.1
1965	3	22	6 37 7.7648	1.0	71042	9114	.40175780	-.88273614	0.24365463	240	90	.7	.3
1965	3	24	8 24 36.0177	1.0	71081	9001	-.41111521	-.56647846	0.71420336	330	111	.5	.5
1965	3	24	8 24 36.0177	1.0	71081	9114	-.42095821	-.87933901	0.22261422	270	105	.7	.4
1965	3	24	22 15 47.7730	1.0	71086	9004	.15876331	.87922318	0.44917793	210	75	.5	.4
1965	3	24	22 15 47.7730	1.0	71086	9006	.82507986	-.10987601	0.55422963	210	128	.7	.8
1965	3	25	3 47 24.1695	1.0	71087	9004	.08417321	-.88093591	0.46568959	230	124	1.0	.4
1965	3	25	3 47 24.1695	1.0	71087	9010	.79539584	.01682667	0.60585668	230	73	1.7	.4
1965	3	25	6 32 35.9189	1.0	71043	9009	-.29808436	-.39393573	0.86945981	200	131	1.1	.3
1965	3	25	6 32 35.9189	1.0	71043	9114	.37314124	-.90757613	0.19253878	230	92	.3	.9
1965	3	25	6 32 58.1034	1.0	71044	9009	-.30065952	-.37420489	0.87725398	200	132	1.2	.3
1965	3	25	6 32 58.1034	1.0	71044	9010	-.10052618	-.56318466	0.82019359	300	112	.8	.5
1965	3	25	6 32 58.1034	1.0	71044	9114	.37059994	-.90304478	0.21717691	240	91	.3	.8
1965	3	25	6 33 14.0088	1.0	71045	9009	-.30241583	-.36018185	0.88250422	190	134	1.6	.4
1965	3	25	6 33 14.0088	1.0	71045	9010	-.10604009	-.54431097	0.83215447	300	113	.8	.4
1965	3	25	6 36 19.9229	1.0	71046	9001	.38430838	-.42099307	0.82162759	280	73	.6	.5
1965	3	25	6 36 19.9229	1.0	71046	9114	.33971761	-.82391464	0.45360402	280	88	.6	.4
1965	3	25	6 36 39.9226	1.0	71047	9001	.37557615	-.40002123	0.83601769	280	72	.6	.5
1965	3	25	6 36 39.9226	1.0	71047	9114	.33580350	-.81181946	0.47768732	280	88	.6	.5
1965	3	26	10 12 43.7021	1.0	71082	9001	-.86480139	.03478678	0.50090761	240	124	.6	.3
1965	3	26	10 12 43.7021	1.0	71082	9117	-.04849097	-.66513985	0.74514267	220	73	1.0	.5
1965	3	26	10 16 43.7102	1.0	71083	9001	-.72145293	.18181473	0.66816845	220	135	.6	.4
1965	3	26	10 16 43.7102	1.0	71083	9117	.04802515	-.68277795	0.87442497	200	59	.7	.4

Table 2 (Cont.)

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DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA PHI		A SEC		B SEC	
Y	M	D	H	M	S												
1965	3	27	5	35	21.3061	1.0	71084	9001	.71252052	-.44446282	0.54292477	240	76	1.2		.5	
1965	3	27	5	35	21.3061	1.0	71084	9114	.64251306	-.73848955	0.20447531	210	87	1.5		.3	
1965	3	27	8	21	15.9171	1.0	71085	9001	-.44786208	-.51410216	0.73151796	320	113	1.0		.4	
1965	3	27	8	21	15.9171	1.0	71085	9114	-.46428648	-.84935237	0.25107492	280	106	1.0		.7	
1965	3	28	6	36	.3608	1.0	71088	9010	-.22537188	-.10676616	0.96840513	210	160	.7		.4	
1965	3	28	6	36	.3608	1.0	71088	9114	.25791991	-.66658142	0.69939011	320	85	1.0		.3	
1965	4	3	9	6	35.7677	1.0	71090	9001	-.81893317	-.22004849	0.53002559	280	120	.7		.4	
1965	4	3	9	6	35.7677	1.0	71090	9114	-.82496793	-.54702303	0.14210461	240	113	.4		.7	
1965	4	4	7	17	37.8193	1.0	71049	9010	-.57916806	-.32135856	0.74919492	240	131	.8		.5	
1965	4	4	7	17	37.8193	1.0	71049	9114	-.18012011	-.90923974	0.37528635	290	100	.5		.8	
1965	4	4	7	17	55.7154	1.0	71050	9001	-.12095525	-.50285334	0.85586701	310	102	.7		.5	
1965	4	4	7	17	55.7154	1.0	71050	9010	-.57552646	-.30390053	0.75921918	230	132	.8		.5	
1965	4	4	7	17	55.7154	1.0	71050	9114	-.18280420	-.89872057	0.39860251	300	101	.5		1.0	
1965	4	4	7	18	12.7459	1.0	71051	9010	-.57194391	-.28732604	0.76832539	230	133	.7		.5	
1965	4	4	7	18	12.7459	1.0	71051	9114	-.18523581	-.88801567	0.42085136	300	101	.5		1.0	
1965	4	4	7	20	35.8192	1.0	71053	9001	-.11554700	-.29421124	0.94873001	280	107	1.9		.7	
1965	4	4	7	20	35.8192	1.0	71053	9010	-.53778604	-.15093681	0.82946022	210	144	1.7		.9	
1965	4	4	7	20	35.8192	1.0	71053	9114	-.19992554	-.77006015	0.60583591	330	101	.5		.3	
1965	4	4	7	20	47.8194	1.0	71054	9010	-.53465772	-.13981484	0.83342242	210	145	1.6		.8	
1965	4	4	7	20	47.8194	1.0	71054	9114	-.20060552	-.75786046	0.62080991	330	101	.5		.3	
1965	4	4	7	23	22.2587	1.0	71092	9001	-.09989073	-.09311864	0.99063150	240	131	.5		.4	
1965	4	4	7	23	22.2587	1.0	71092	9114	-.20018148	-.57176852	0.79561808	350	103	.7		.8	
1965	4	5	5	29	42.0201	1.0	71055	9001	.48825927	-.23611548	0.84000952	250	60	1.1		.4	
1965	4	5	5	29	42.0201	1.0	71055	9010	.00632865	-.16088812	0.98695236	230	111	.7		.5	
1965	4	5	5	30	5.9984	1.0	71056	9001	.47550380	-.21478149	0.85309147	240	59	1.1		.4	
1965	4	5	5	30	5.9984	1.0	71056	9010	-.00413849	-.13713163	0.99054419	220	115	.7		.5	
1965	4	5	5	30	5.9984	1.0	71056	9114	.49497626	-.62986117	0.59855944	280	80	.4		.8	
1965	4	5	5	30	19.6869	1.0	71057	9010	-.00995210	-.12374430	0.99226423	220	118	1.0		1.0	
1965	4	5	5	30	19.6869	1.0	71057	9114	.49068149	-.61900461	0.61324136	280	79	.3		.8	
1965	4	5	13	40	35.8322	1.0	71094	9005	-.86604045	-.08925602	0.49194238	300	86	1.0		1.3	
1965	4	5	13	40	35.8322	1.0	71094	9117	-.28461975	.68459596	0.67105884	200	127	.7		.4	
1965	4	8	13	36	31.8678	1.0	71095	9005	-.87919478	-.04642330	0.47419555	300	88	.9		.7	
1965	4	8	13	36	31.8678	1.0	71095	9117	-.28253353	.70858820	0.64658918	200	126	1.4		.3	
1965	4	10	9	54	3.7291	1.0	71096	9001	-.87791218	.16036149	0.45117003	210	124	1.7		.7	
1965	4	10	9	54	3.7291	1.0	71096	9117	-.15978771	-.57375836	0.80328652	230	75	1.0		.4	
1965	4	18	8	46	11.7947	1.0	71097	9001	-.91709314	-.13562322	0.37489534	250	118	1.5		.8	
1965	4	18	8	46	11.7947	1.0	71097	9117	-.04660210	-.80330170	0.59374626	220	78	1.0		.6	
1965	4	23	7	42	3.7291	1.0	71099	9001	-.80666738	-.53549484	0.25006602	300	111	.7		.4	
1965	4	23	7	42	3.7291	1.0	71099	9114	-.68006309	-.72281214	-.12270617	200	109	.9		.4	
1965	4	24	5	52	24.0607	1.0	71058	9009	-.58495300	-.46886773	0.66181043	200	123	1.1		.3	
1965	4	24	5	52	24.0607	1.0	71058	9010	-.49713189	-.68126470	0.53734374	300	116	.6		1.1	
1965	4	24	5	52	47.9570	1.0	71059	9009	-.58272416	-.45054951	0.67634140	200	124	1.0		.3	
1965	4	24	5	52	47.9570	1.0	71059	9010	-.49914333	-.65883369	0.56284465	290	117	.5		1.0	
1965	4	24	5	52	47.9570	1.0	71059	9114	.00854830	-.99937156	0.03440075	220	99	.8		.5	
1965	4	24	5	53	7.9417	1.0	71060	9010	-.50045852	-.63962876	0.58345207	290	117	.7		1.5	
1965	4	24	5	53	7.9417	1.0	71060	9114	.00510344	-.99842521	0.05586640	230	99	.8		.5	
1965	4	28	6	46	19.9024	1.0	71100	9010	-.76114195	-.26389756	0.59247026	220	127	1.0		.5	
1965	4	28	6	46	19.9024	1.0	71100	9114	-.49247271	-.83182099	0.25601654	280	107	.8		.7	
1965	4	29	7	39	29.8993	1.0	71101	9001	-.78564357	-.23878178	0.57074289	280	121	1.6		.3	
1965	4	29	7	39	29.8993	1.0	71101	9114	-.79960207	-.57448623	0.17493456	250	113	1.6		.6	
1965	5	6	5	36	51.8532	1.0	71102	9010	-.63232763	-.62804292	0.45356792	280	116	.7		.3	
1965	5	6	5	36	51.8532	1.0	71102	9114	-.14367535	-.98909493	-.03238230	220	102	1.2		.7	
1965	5	6	8	24	47.8202	1.0	71103	9001	-.92278625	.07459528	0.37802259	220	121	.4		.4	
1965	5	6	8	24	47.8202	1.0	71103	9117	-.17941838	-.67828824	0.71255464	240	79	1.1		.4	
1965	5	9	5	35	16.0546	1.0	71065	9001	-.19582474	-.76963988	0.60770645	350	102	.8		.6	
1965	5	9	5	35	16.0546	1.0	71065	9010	-.65664377	-.49713225	0.56716707	260	121	.4		.4	
1965	5	9	5	35	36.0547	1.0	71066	9001	-.19737248	-.74811979	0.63353049	350	102	1.0		.8	
1965	5	9	5	35	36.0547	1.0	71066	9010	-.65459221	-.47933603	0.58459046	260	122	.4		.4	
1965	6	1	3	59	7.9237	1.0	71198	9001	.08184040	-.92390581	-.37376490	210	102	.7		.5	
1965	6	1	3	59	7.9237	1.0	71198	9010	-.41444052	-.86541349	-.28159998	250	105	.8		.9	

Table 2 (Cont.)

6102801

DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
Y	M	D	H	M	S										
1965	6	1	4	1	55.9246	1.0	71199	9001	.04756308	-.97921857	-.19715158	250	101	.6	.5
1965	6	1	4	1	55.9246	1.0	71199	9010	-.48367198	-.87121815	-.06390680	270	107	.5	1.0
1965	6	1	4	4	39.9252	1.0	71200	9001	.01028827	-.99986978	0.01243280	290	100	1.1	.3
1965	6	1	4	4	39.9252	1.0	71200	9010	-.54107358	-.83153021	0.12568568	290	110	.4	.6
1965	6	1	6	46	4.7133	1.0	71201	9001	-.93956281	-.23015080	-.25348044	200	107	.9	.7
1965	6	1	6	46	4.7133	1.0	71201	9012	-.42453833	-.90057247	-.09346889	260	98	1.1	.8
1965	6	1	6	48	36.7140	1.0	71202	9001	-.97522225	-.19062686	-.11226292	210	109	.8	.7
1965	6	1	6	48	36.7140	1.0	71202	9012	-.44514768	-.88877909	0.10915710	290	95	.7	.5
1965	6	1	6	51	48.7108	1.0	71203	9001	-.98978740	-.12020556	0.07662588	220	113	.8	.3
1965	6	1	6	51	48.7108	1.0	71203	9012	-.43158791	-.81842840	0.37935054	310	93	.7	.3
1965	6	1	9	28	49.9902	1.0	71204	9012	-.86520916	.39758919	-.30550932	240	103	.5	.5
1965	6	1	9	28	49.9902	1.0	71204	9117	-.94033469	.19278077	-.28036805	290	103	1.8	.5
1965	6	1	9	31	33.9866	1.0	71205	9012	-.88033557	.45836277	-.12211820	250	106	.4	.6
1965	6	1	9	31	33.9866	1.0	71205	9117	-.96477575	.25802154	-.05130923	310	105	1.0	.6
1965	6	2	4	51	39.8745	1.0	71206	9001	-.35680638	-.80699700	-.47057948	210	105	.7	.6
1965	6	2	4	51	39.8745	1.0	71206	9010	-.71149112	-.62491488	-.32134371	200	104	.9	.5
1965	6	18	16	35	23.9405	1.0	71212	9006	.77348933	.61830922	-.13931247	250	107	.6	1.0
1965	6	18	16	35	23.9405	1.0	71212	9008	.33173376	.92947846	-.16131492	270	101	1.4	.8
1965	6	18	16	39	35.9478	1.0	71213	9006	.83221121	.52777234	0.16994369	280	111	.7	1.5
1965	6	18	16	39	35.9478	1.0	71213	9008	.38729549	.90100275	0.19542860	330	99	.6	1.0
1965	6	25	0	36	48.0735	1.0	71215	9007	.63016947	-.75161707	0.19482869	300	104	.6	.4
1965	6	25	0	36	48.0735	1.0	71215	9009	.51483645	-.69217662	-.50580130	260	105	1.4	.4
1965	6	25	0	36	48.0735	1.0	71215	9011	.44193644	-.77371401	0.45393702	210	105	.3	1.3
1965	6	25	0	37	11.8621	1.0	71216	9007	.61932859	-.75135665	0.22780536	300	103	.6	.4
1965	6	25	0	37	11.8621	1.0	71216	9009	.51724775	-.70821012	-.48051347	260	104	1.6	.5
1965	6	25	9	2	23.9895	1.0	71209	9012	-.70169991	.70926275	-.06755433	210	106	1.4	.7
1965	6	25	9	2	23.9895	1.0	71209	9117	-.77639385	.63024757	0.00076824	270	106	1.2	.6
1965	6	25	9	5	51.9888	1.0	71210	9012	-.64594545	.75072133	0.13846285	220	111	.5	.8
1965	6	25	9	5	51.9888	1.0	71210	9117	-.69497564	.67082533	0.25884790	270	110	1.2	.8
1965	6	28	8	57	56.1263	1.0	71211	9012	-.68464352	.72064043	-.10927315	210	106	.4	1.4
1965	6	28	8	57	56.1263	1.0	71211	9117	-.75706697	.65108138	-.05424610	260	105	1.1	.5
1965	9	5	8	45	40.3565	1.0	71314	9007	.55609550	-.55196545	0.62136297	220	253	.6	.4
1965	9	5	8	45	40.3565	1.0	71314	9010	.74934030	-.59573555	-.28911636	240	254	1.3	.7
1965	9	11	8	37	48.4557	1.0	71315	9007	.47884477	-.59198530	0.64827547	220	253	1.4	1.5
1965	9	11	8	37	48.4557	1.0	71315	9010	.69839019	-.66127857	-.27379152	250	254	1.2	.5
1965	9	11	8	42	8.4747	1.0	71316	9007	.50749389	-.76621467	0.39416371	280	257	1.0	.4
1965	9	11	8	42	8.4747	1.0	71316	9010	.56640983	-.63047511	-.53073632	210	257	.7	.6
1965	9	18	9	23	12.4249	1.0	71317	9001	.56454386	-.78691604	-.24910515	220	253	.4	.4
1965	9	18	9	23	12.4249	1.0	71317	9007	-.04626941	-.71458610	0.69801565	210	260	.8	1.0
1965	10	5	8	8	46.2034	1.0	71324	9007	.12785750	-.78247179	0.60941805	240	257	1.0	.7
1965	10	5	8	8	46.2034	1.0	71324	9010	.34189793	-.86768595	-.36086964	250	255	.5	.7
1965	10	5	8	11	22.2092	1.0	71325	9007	.09832709	-.88685141	0.45147133	270	257	.7	1.0
1965	10	5	8	11	22.2092	1.0	71325	9010	.27349268	-.81195256	-.51568866	220	255	.6	.4
1965	10	8	8	3	4.6032	1.0	71326	9001	.65356109	-.71712471	-.24205382	210	253	1.4	1.2
1965	10	8	8	3	4.6032	1.0	71326	9007	.09821446	-.70698097	0.70037977	210	257	1.2	.6
1965	10	10	7	7	8.5472	1.0	71327	9007	.50024481	-.62412546	0.60018542	220	254	.6	.8
1965	10	10	7	7	8.5472	1.0	71327	9010	.68231540	-.65469162	-.32530690	240	255	1.3	.7
1965	10	18	8	45	32.4113	1.0	71327	9007	-.42216689	-.65344043	0.62832374	200	265	.7	1.0
1965	10	18	8	45	32.4113	1.0	71328	9010	-.35511942	-.91838452	-.17452814	260	261	1.3	1.4
1965	10	18	8	45	56.3786	1.0	71329	9001	.16854565	-.94059433	-.29474509	240	254	1.3	.3
1965	10	18	8	45	56.3786	1.0	71329	9007	-.43180659	-.66423626	0.61019117	200	264	.5	.7
1965	10	18	8	45	56.3786	1.0	71329	9010	-.35753375	-.91150130	-.20331010	250	261	.9	.9
1965	10	18	8	46	20.3788	1.0	71330	9001	.15948773	-.93388994	-.32002069	240	254	1.9	.4
1965	10	18	8	46	20.3788	1.0	71330	9007	-.44149635	-.67469685	0.59149398	200	264	.5	.6
1965	10	18	8	49	56.3118	1.0	71331	9007	-.52917708	-.74908397	0.39855341	230	260	1.0	.6
1965	10	18	8	49	56.3118	1.0	71331	9010	-.37076251	-.81387004	-.44738207	200	257	1.0	.4
1965	10	26	18	34	8.1862	1.0	71332	9005	.08433056	.91258170	0.40010373	280	275	1.7	.7
1965	10	26	18	34	8.1862	1.0	71332	9006	-.81784646	.37638686	0.43527015	230	239	1.3	.8
1965	10	28	14	48	44.4147	1.0	71333	9005	-.78895296	-.40714698	0.46020057	260	238	.9	.9
1965	10	28	14	48	44.4147	1.0	71333	9012	-.42069705	.63648970	0.64644787	230	287	1.1	.4

Table 2 (Cont.)

6102801

DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA PHI		A SEC	B SEC
Y	M	D	H	M	S										
1965	10	31	14	43	28.6603	1.0	71335	9005	-.72447950	-.41052209	0.55371569	260	235	1.3	.5
1965	10	31	14	43	28.6603	1.0	71335	9012	-.34925356	.61967425	0.70286967	220	291	.6	.5

6202901

DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA PHI		A SEC	B SEC
Y	M	D	H	M	S										
1963	8	18	21	24	22.5459	1.0	70215	9004	.54857021	.75239462	0.36465471	210	310	1.2	.5
1963	8	18	21	24	22.5459	1.0	70215	9008	.85867228	-.19433578	0.47425259	170	333	1.0	1.1
1963	8	21	20	21	18.5576	1.0	70217	9004	.43129139	.83175141	0.34953874	180	309	.5	1.3
1963	8	21	20	21	18.5576	1.0	70217	9008	.84536860	-.00036875	0.53418330	180	334	1.0	.7
1963	8	24	3	38	2.5621	1.0	70218	9001	.69009490	-.67880364	0.25098734	200	307	1.3	.5
1963	8	24	3	38	2.5621	1.0	70218	9009	.00167627	-.66591598	0.74602486	200	333	.6	.8

6206801

DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA PHI		A SEC	B SEC
Y	M	D	H	M	S										
1965	2	6	6	23	35.6049	1.0	71189	9012	-.47825419	-.67463580	.55620869	290	298	.6	.3
1965	2	6	6	23	35.6049	1.0	71189	9117	-.27477152	-.80299807	0.52886171	220	283	.8	.8
1965	2	6	7	47	43.6959	1.0	71191	9012	-.93920924	-.07572970	0.33488956	290	317	.7	.5
1965	2	8	7	47	43.6959	1.0	71191	9117	-.80985366	-.39098509	0.43734164	280	304	1.7	.6
1965	2	20	6	36	31.6420	1.0	71192	9012	-.99954933	-.00214604	0.02994213	290	316	.7	.5
1965	2	20	6	36	31.6420	1.0	71192	9117	-.92902972	-.34187607	0.14150806	290	307	.9	1.4
1965	6	18	20	41	4.0089	1.0	71218	9006	.82553379	.54737402	0.13738866	420	312	.6	.4
1965	6	18	20	41	4.0089	1.0	71218	9008	.07960988	.98649945	0.14311220	500	308	.7	1.1

Table 2 (Cont.)

6303001

DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SLC
1964 12 6	3 17 19.4480	1.0	71002	9007	-.56401565	-.74141804	0.36357343	210	96	1.2	.3
1964 12 6	3 17 19.4480	1.0	71002	9009	-.63001301	-.75298257	-.19000225	230	95	.8	.3
1964 12 6	6 21 44.0493	1.0	70998	9001	-.87793106	.03847831	0.47723838	230	116	1.0	.7
1964 12 6	6 21 44.0493	1.0	70998	9012	-.20054794	-.54532491	0.81388038	260	74	1.8	.4
1964 12 6	6 25 16.0802	1.0	70999	9001	-.74878586	.14062573	0.64772227	230	124	.6	.3
1964 12 6	6 25 16.0802	1.0	70999	9012	-.05677059	-.37792925	0.92409230	220	59	1.6	.7
1964 12 7	1 36 43.4466	1.0	71004	9009	.14058620	-.82654361	-.54503319	260	95	1.0	.6
1964 12 7	1 36 43.4466	1.0	71004	9011	.11804198	-.89973727	0.42016537	210	95	.8	.3
1964 12 7	1 41 47.4887	1.0	71005	9009	.12467813	-.98090177	-.14928858	320	96	1.5	.5
1964 12 7	1 41 47.4887	1.0	71005	9010	.35762852	-.82719019	-.43342615	230	95	.4	.4
1964 12 7	1 58 2.9356	1.0	70989	9010	.18952228	-.50309133	0.84319655	300	88	1.3	.4
1964 12 7	1 58 2.9356	1.0	70989	9001	.64855042	-.49293223	0.58000015	260	69	.7	.4
1964 12 7	1 58 14.9358	1.0	70990	9001	.64533262	-.48375376	0.59120902	250	69	.7	.4
1964 12 7	1 58 14.9358	1.0	70990	9009	-.09457223	-.33373057	0.93791258	200	115	.6	.5
1964 12 7	1 58 14.9358	1.0	70990	9010	.18486390	-.48916953	0.85237228	300	88	1.3	.4
1964 12 7	1 58 34.9357	1.0	70991	9009	-.09785271	-.31560725	0.94383098	200	116	.6	.5
1964 12 7	1 58 34.9357	1.0	70991	9010	.17714064	-.46591703	0.86691552	290	88	1.3	.4
1964 12 11	1 6 3.4176	1.0	70992	9001	.78337604	-.39825936	0.47719122	230	69	1.8	1.0
1964 12 11	1 6 3.4176	1.0	70992	9010	.46844426	-.43651129	0.76812621	300	78	.7	1.1
1964 12 11	1 6 27.4179	1.0	70993	9001	.77701886	-.38437808	0.49849291	230	68	1.4	.8
1964 12 11	1 6 27.4179	1.0	70993	9009	.12886468	-.29824969	0.94574892	210	93	.5	.5
1964 12 11	1 6 27.4179	1.0	70993	9010	.45446766	-.41339064	0.78902936	290	77	.5	.7
1964 12 11	1 6 51.4177	1.0	70994	9001	.77027893	-.37001137	0.51938613	230	67	1.4	.8
1964 12 11	1 6 51.4177	1.0	70994	9009	.11885115	-.27773271	0.95327800	200	93	.8	.7
1964 12 22	2 48 43.0807	1.0	71000	9001	-.26803391	-.96316310	0.02178683	300	95	.4	.4
1964 12 22	2 48 43.0807	1.0	71000	9010	-.71163961	-.69217549	0.12025871	250	104	1.1	1.5
1964 12 23	0 59 11.5670	1.0	71006	9009	-.12233007	-.84061452	-.52763869	250	93	.9	.4
1964 12 23	0 59 11.5670	1.0	71006	9011	-.11411125	-.91349810	0.39051228	200	93	1.1	.9
1964 12 23	1 3 23.6198	1.0	71007	9009	-.16615540	-.95997665	-.22547109	290	96	.6	.3
1964 12 23	1 3 23.6198	1.0	71007	9010	.10895649	-.86068300	-.49734621	220	96	.7	.7
1964 12 23	1 15 39.4838	1.0	71008	9009	-.26332625	-.63901434	0.72271707	250	108	.3	.4
1964 12 23	1 15 39.4838	1.0	71008	9010	.00596216	-.86531171	0.50119866	340	97	.7	1.0
1964 12 23	1 18 11.4887	1.0	71009	9009	-.26601514	-.49715223	0.82587869	220	114	.7	.4
1964 12 23	1 18 11.4887	1.0	71009	9010	-.02464792	-.71640124	0.69725300	330	98	.5	.9
1964 12 23	1 20 19.5362	1.0	70995	9009	-.26513273	-.37938887	0.88643597	200	121	.6	.5
1964 12 23	1 20 19.5362	1.0	70995	9010	-.04711669	-.56753024	0.82200331	300	100	.5	.4
1964 12 23	1 20 43.3970	1.0	70996	9001	.50152488	-.57910318	0.64273813	280	72	.7	.8
1964 12 23	1 20 43.3970	1.0	70996	9009	-.26471491	-.35794226	0.89543473	200	122	.7	.6
1964 12 23	1 20 43.3970	1.0	70996	9010	-.05083498	-.53876829	0.84091886	300	101	.5	.4
1964 12 23	1 21 3.4879	1.0	70997	9001	.49709185	-.56056702	0.66231738	280	71	.7	.7
1964 12 23	1 21 3.4879	1.0	70997	9009	-.26432268	-.34003408	0.90250227	200	124	.7	.7
1964 12 25	20 31 23.7447	1.0	71001	9004	.57682437	-.35836462	0.73406297	330	104	.7	.3
1964 12 25	20 31 23.7447	1.0	71001	9115	.83553663	-.50237158	0.22248896	230	105	1.2	.8
1965 3 7	8 43 19.8549	1.0	71105	9001	.21575882	-.73683866	0.64071594	330	254	1.1	.6
1965 3 7	8 43 19.8549	1.0	71105	9114	.12349837	-.97959881	0.15853808	250	258	1.8	.9
1965 3 7	8 45 51.8756	1.0	71116	9001	.19016720	-.87651802	0.44221329	330	257	.8	.3
1965 3 7	8 45 51.8756	1.0	71116	9009	-.54239603	-.49581202	0.67821603	220	288	.7	1.0
1965 3 7	8 45 51.8756	1.0	71116	9114	.09190668	-.99571436	-.01029929	220	259	.4	.7
1965 3 7	8 46 3.8684	1.0	71117	9001	.18778503	-.88540285	0.42520416	330	258	.7	.3
1965 3 7	8 46 3.8684	1.0	71117	9009	-.54590623	-.50437598	0.66902261	220	287	.6	.9
1965 3 8	7 5 27.4618	1.0	71106	9009	.04780749	-.31354558	0.94836892	210	274	.5	.7
1965 3 8	7 5 27.4618	1.0	71106	9114	.67438310	-.71291999	0.19223039	220	250	.8	.4
1965 3 8	7 8 31.4559	1.0	71107	9009	.08490793	-.49623863	0.86402423	250	271	.7	.4
1965 3 8	7 8 31.4559	1.0	71107	9114	.64420105	-.76457283	0.02081814	190	253	1.1	1.4
1965 3 9	8 13 53.7809	1.0	71108	9010	-.21316847	-.34920288	0.91247825	260	291	.6	.4
1965 3 9	8 13 53.7809	1.0	71108	9114	.29386694	-.85734495	0.42261313	290	254	.7	1.3
1965 3 9	8 17 27.7257	1.0	71118	9010	-.25356330	-.59960861	0.75906203	310	280	.7	.5
1965 3 9	8 17 27.7257	1.0	71118	9114	.24944046	-.95376231	0.16768099	250	256	.9	.3
1965 3 9	8 17 49.8230	1.0	71119	9009	-.41385361	-.41407639	0.81071939	210	293	.8	.7
1965 3 9	8 17 49.8230	1.0	71119	9010	-.25773755	-.62447010	0.73729807	310	280	.6	.5

Table 2 (Cont.)

6303001

DATE	TIME			SIGMA	OBS NO	STA NO	L	M	N	OMEGA	PHI	A	B
Y	M	D	H	M	S	MSEC						SEC	SEC
1965	3	9	8	17	49.8230	1.0	71119	9114	.24456470	-.95909089	0.14259303	240	257
1965	3	9	8	18	9.7756	1.0	71120	9009	-.41893136	-.43077060	0.79933298	220	292
1965	3	9	8	18	9.7756	1.0	71120	9010	-.26145683	-.64652883	0.71668738	320	279
1965	3	9	8	20	5.7835	1.0	71122	9010	-.28156281	-.76452901	0.57984289	330	276
1965	3	9	8	20	5.7835	1.0	71122	9114	.21470473	-.97667151	-.00382629	220	258
1965	3	12	11	51	47.8809	3.0	71109	9001	-.91509273	.11579862	0.38625895	220	289
1965	3	12	11	51	47.8809	1.0	71109	9117	-.18257461	-.64604391	0.74114356	230	243
1965	3	22	6	54	7.9858	1.0	71110	9009	-.24098680	-.38668099	0.89017031	210	293
1965	3	22	6	54	7.9858	1.0	71110	9114	.43934003	-.87874060	0.18653497	240	254
1965	3	25	7	35	15.9840	1.0	71111	9010	-.36623248	-.24357579	0.89807828	240	305
1965	3	25	7	35	15.9840	1.0	71111	9114	.10636279	-.83644830	0.53762552	320	257
1965	3	25	7	37	39.9943	1.0	71124	9001	.14290498	-.56230580	0.81448779	310	252
1965	3	25	7	37	39.9943	1.0	71124	9010	-.41672751	-.39450178	0.81896674	270	294
1965	3	25	7	37	43.9237	1.0	71125	9001	.14229876	-.56721947	0.81118009	310	252
1965	3	25	7	37	43.9237	1.0	71125	9010	-.41810529	-.39861555	0.81626810	270	293
1965	3	25	7	37	43.9237	1.0	71125	9114	.07085645	-.93496188	0.34759984	290	259
1965	3	25	7	38	3.9249	1.0	71126	9010	-.42509429	-.41949481	0.80207166	270	292
1965	3	25	7	38	3.9249	1.0	71126	9114	.06616254	-.94441472	0.32203005	280	256
1965	3	25	7	39	52.0000	1.0	71127	9009	-.54056087	-.34707063	0.76637845	200	297
1965	3	25	7	39	52.0000	1.0	71127	9114	.04182847	-.98139119	0.18740787	260	260
1965	3	25	7	39	59.8646	1.0	71128	9009	-.54312491	-.35274473	0.76196226	200	296
1965	3	25	7	39	59.8646	1.0	71128	9010	-.46411371	-.53697693	0.70445315	290	286
1965	3	25	7	39	59.8646	1.0	71128	9114	.04013621	-.98322685	0.17791584	260	260
1965	3	25	7	40	15.8004	1.0	71129	9001	.11469514	-.74672614	0.65516799	340	257
1965	3	25	7	40	15.8004	1.0	71129	9009	-.54831449	-.36419803	0.75280211	200	295
1965	3	25	7	40	15.8004	1.0	71129	9010	-.46915701	-.55239943	0.68901856	290	286
1965	3	25	7	40	15.8004	1.0	71129	9114	.03674489	-.98662389	0.15881786	250	260
1965	3	25	7	40	31.9375	1.0	71130	9001	.11132307	-.76402048	0.63551544	340	257
1965	3	25	7	40	31.9375	1.0	71130	9010	-.47416971	-.56776747	0.67290652	290	285
1965	3	25	7	40	31.9375	1.0	71130	9114	.03336465	-.98963556	0.13967197	250	260
1965	3	25	7	40	39.9291	1.0	71131	9001	.10962683	-.77241640	0.62558362	340	257
1965	3	25	7	40	39.9291	1.0	71131	9010	-.47661462	-.57528115	0.66474815	290	285
1965	3	27	7	7	47.8333	1.0	71112	9001	.26809250	-.24949768	0.93052529	250	228
1965	3	27	7	7	47.8333	1.0	71112	9114	.24790384	-.71895603	0.64934268	320	252
1965	3	27	7	14	31.7815	1.0	71132	9009	-.46900086	-.38958097	0.79263160	210	295
1965	3	27	7	14	31.7815	1.0	71132	9114	.16568584	-.97321461	0.15937856	250	258
1965	3	27	9	59	47.5138	1.0	71114	9001	-.74931464	-.02120378	0.66187459	260	295
1965	3	27	9	59	47.5138	1.0	71114	9114	-.86187330	-.38692287	0.32781871	260	282
1965	3	29	6	41	23.7127	1.0	71133	9001	.35113990	-.19298808	0.91621852	240	220
1965	3	29	6	41	23.7127	1.0	71133	9114	.35846955	-.64666809	0.67329040	310	247
1965	3	29	6	41	43.4287	1.0	71134	9001	.35468684	-.21488364	0.90995729	240	223
1965	3	29	6	41	43.4287	1.0	71134	9010	-.15058486	-.12224992	0.98100925	220	315
1965	3	29	6	41	43.4287	1.0	71134	9114	.35725692	-.66827384	0.65251634	310	248
1965	3	29	6	42	7.4237	1.0	71135	9001	.35889158	-.24178915	0.90151808	250	225
1965	3	29	6	42	7.4237	1.0	71135	9010	-.15297729	-.14766023	0.97713582	220	310
1965	3	30	13	35	44.0721	1.0	71151	9005	-.81570606	-.34427100	0.46486676	270	247
1965	3	30	13	35	44.0721	1.0	71151	9012	-.40401990	.67775566	0.61434126	210	294
1965	4	6	13	28	35.9621	1.0	71146	9005	-.77767171	-.22222630	0.58808348	290	247
1965	4	6	13	28	35.9621	1.0	71146	9117	-.24219402	.59330332	0.76768042	210	298
1965	4	23	5	38	44.1460	1.0	71136	9001	.12822809	-.66425961	0.73642157	330	255
1965	4	23	5	38	44.1460	1.0	71136	9009	-.52448339	-.31209480	0.79215782	190	299
1965	4	23	5	39	4.4621	1.0	71137	9001	.12442023	-.68806403	0.71490384	330	256
1965	4	23	5	39	4.4621	1.0	71137	9009	-.53108534	-.32688973	0.78172339	200	298
1965	4	23	5	39	28.1138	1.0	71138	9001	.11981617	-.71511487	0.68866161	330	256
1965	4	23	5	39	28.1138	1.0	71138	9009	-.53877018	-.34404203	0.76900050	200	297
1965	4	23	5	43	.1514	1.0	71139	9001	.07231877	-.91092920	0.40617482	340	260
1965	4	23	5	43	.1514	1.0	71139	9009	-.60591010	-.49022195	0.62654241	220	287
1965	4	23	5	43	24.1169	1.0	71140	9001	.06654780	-.92643242	0.37053254	340	260
1965	4	23	5	43	24.1169	1.0	71140	9009	-.61302358	-.50542933	0.60724236	220	286
1965	4	23	5	43	24.1169	1.0	71140	9114	-.00285871	-.99766533	-.06823282	210	261

Table 2 (Cont.)

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DATE	TIME	SIGMA	OBS NO	STA NO	L	M	N	OMEGA	PHI	A	B
Y M L	H M S	MSEC								SEC	SEC
1965	4 23	5 43 47.8014	1.0	71141	9009	-.61990997	-.52009606	0.58754720	220	285	1.1
1965	4 23	5 43 47.8014	1.0	71141	9114	-.00672635	-.99576053	-.09173725	210	261	1.3
1965	4 24	6 52 27.7860	1.0	71147	9012	.26456613	-.81369540	0.51159498	210	244	1.0
1965	4 24	6 52 27.7860	1.0	71147	9114	-.53067334	-.84515964	0.06396084	240	269	.3
1965	4 24	6 55 23.6946	1.0	71148	9012	.21710341	-.90270728	0.37146423	210	249	.9
1965	4 24	6 55 23.6946	1.0	71148	9114	-.53220905	-.83788838	-.12122949	200	268	1.0
1965	4 24	9 37 8.0209	1.0	71149	9012	-.36894380	-.09213894	0.92487344	250	272	1.0
1965	4 24	9 37 8.0209	1.0	71149	9114	-.97153188	.10583379	0.21195522	190	286	.4
1965	4 30	5 27 52.0880	1.0	71142	9010	-.44756242	-.14234048	0.88285167	220	314	1.3
1965	4 30	5 27 52.0880	1.0	71142	9114	-.04492815	-.76297308	0.64486707	340	261	1.1
1965	4 30	5 28 7.6942	1.0	71143	9001	.01841829	-.29183987	0.95628984	270	254	1.0
1965	4 30	5 28 7.6942	1.0	71143	9010	-.45431471	-.15677747	0.87693727	230	312	1.2
1965	4 30	5 28 7.6942	1.0	71143	9114	-.04990101	-.77868418	0.62542852	340	261	1.0
1965	4 30	5 28 31.6939	1.0	71144	9001	.01162423	-.32151086	0.94683454	280	256	1.0
1965	4 30	5 28 31.6939	1.0	71144	9114	-.05743986	-.80165096	0.59502639	330	261	1.0
1965	6 20	7 16 47.9411	1.0	71220	9012	-.58233421	.52914120	0.61716810	250	288	1.0
1965	6 20	7 16 47.9411	1.0	71220	9117	-.53655606	.31405139	0.78324921	260	282	.5
1965	6 22	23 56 35.8797	1.0	71222	9007	.21205002	-.95901521	0.18794844	310	264	.7
1965	6 22	23 56 35.8797	1.0	71222	9009	.11949642	-.84506095	-.52114547	260	263	.7
1965	6 22	23 59 35.9385	1.0	71223	9007	.18661684	-.97787006	-.09457431	340	264	.4
1965	6 22	23 59 35.9385	1.0	71223	9009	.07834663	-.72580867	-.68347050	220	262	.7
1965	6 29	23 55 16.0701	1.0	71224	9007	-.08679046	-.96868419	-.23263352	330	261	.8
1965	6 29	23 55 16.0701	1.0	71224	9011	-.14178391	-.98071472	0.13452123	250	260	.5
1965	7 27	7 57 3.8661	1.0	71261	9007	.92401900	-.37950957	0.04649058	270	99	.8
1965	7 27	7 57 3.8661	1.0	71261	9009	.76920185	-.33727024	-.54274976	220	99	.3
1965	7 28	9 14 3.9683	1.0	71262	9007	.31784298	-.78644726	0.52960037	250	96	1.3
1965	7 28	9 14 3.9683	1.0	71262	9010	.48094899	-.75725973	-.44186624	220	95	.4
1965	8 2	9 32 4.1172	1.0	71263	9009	-.11522739	-.94278424	-.31285863	290	95	1.6
1965	8 2	9 32 4.1172	1.0	71263	9010	.14819759	-.81898216	-.55435160	210	96	.3
1965	8 2	9 32 21.9847	1.0	71264	9007	-.04479893	-.90432269	0.42449208	260	96	.4
1965	8 2	9 32 27.9847	1.0	71264	9009	-.11946348	-.95230975	-.28077503	290	95	1.1
1965	8 2	9 32 27.9847	1.0	71264	9010	.14799554	-.83238313	-.53407457	210	96	.3
1965	8 2	9 32 51.9274	1.0	71265	9007	-.04715182	-.89114713	0.45125769	250	96	.6
1965	8 2	9 32 51.9274	1.0	71265	9009	-.12380417	-.96086955	-.24779474	300	95	1.6
1965	8 17	7 48 44.3841	1.0	71266	9007	.28989469	-.64622778	0.70593960	210	95	.6
1965	8 17	7 48 44.3841	1.0	71266	9010	.55551899	-.80501207	-.20821676	260	92	1.7
1965	8 21	6 53 57.6510	1.0	71268	9007	.63102104	-.59101993	0.50250163	240	94	.5
1965	8 21	6 53 57.6510	1.0	71268	9010	.72819297	-.55545371	-.40150489	210	94	.6
1965	8 21	6 56 37.6526	1.0	71269	9007	.55060081	-.52869191	0.64600589	210	92	.6
1965	8 21	6 56 37.6526	1.0	71269	9010	.76728862	-.59435293	-.24085840	230	91	.8
1965	8 22	8 4 36.2619	1.0	71270	9007	.00302830	-.87196280	0.48956277	250	96	1.2
1965	8 22	8 4 36.2619	1.0	71270	9010	.19696046	-.85289522	-.48350421	220	96	.3
1965	8 25	6 4 48.3606	1.0	71271	9007	.74042856	-.35050147	0.57351048	210	91	.9
1965	8 25	6 4 48.3606	1.0	71271	9010	.89314545	-.37893364	-.24228186	210	90	.5
1965	8 25	8 52 52.0103	1.0	71272	9001	.16898121	-.91707623	-.36113230	220	93	.9
1965	8 25	8 52 52.0103	1.0	71272	9007	-.44176754	-.69703914	0.56478127	190	100	.6
1965	8 26	7 13 55.9142	1.0	71273	9007	.31310475	-.77986625	0.54200927	250	96	.7
1965	8 26	7 13 55.9142	1.0	71273	9010	.48275242	-.76320450	-.42949854	220	95	.7
1965	8 27	8 27 8.1768	1.0	71275	9001	.30283599	-.88592717	-.35131668	210	92	1.0
1965	8 27	8 27 8.1768	1.0	71275	9007	-.32952046	-.73740814	0.58961471	200	99	1.4
1965	8 27	8 27 8.1768	1.0	71275	9010	-.19015171	-.93607716	-.29597614	260	97	.4
1965	8 27	8 27 32.1322	1.0	71276	9007	-.32743292	-.72333571	0.60792527	200	100	1.4
1965	8 27	8 27 32.1322	1.0	71276	9010	-.19564526	-.94353230	-.26733823	260	97	.4
1965	9 3	11 14 16.1846	1.0	71287	9012	-.36839076	-.89224888	0.26111335	300	86	.5
1965	9 3	11 14 16.1846	1.0	71287	9117	-.19324927	-.93976589	0.28194821	240	82	1.2
1965	9 3	11 18 4.2264	1.0	71288	9012	-.28372607	-.77995054	0.55783212	290	81	1.0
1965	9 3	11 18 4.2264	1.0	71288	9117	-.12686176	-.84766695	0.51513769	230	76	1.3
1965	9 3	14 1 56.4393	1.0	71289	9012	-.83266868	.50893884	0.21827535	270	104	.7
1965	9 3	14 1 56.4393	1.0	71289	9117	-.88013852	.29567506	0.37139257	330	100	1.1
1965	9 3	14 6 12.4431	1.0	71290	9012	-.68358159	.52086443	0.51128901	260	110	.7

Table 2 (Cont.)

6303001

DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA PHI	A SEC	U SEC
Y	M	D	H	M	S									
1965	9	3	14	6	12.4431	1.0	71290	9117	-.66233212	.29986016	0.68658579	290 105	.9	.7
1965	9	3	14	9	56.4357	1.0	71291	9012	-.49885108	.50294344	0.70582965	240 118	1.0	.4
1965	9	3	14	9	56.4357	1.0	71291	9117	-.43253580	.28166594	0.85649114	240 114	.7	.3
1965	9	4	12	27	24.4213	1.0	71292	9012	-.81490067	-.29712447	0.49764842	350 95	1.1	.7
1965	9	4	12	27	24.4213	1.0	71292	9117	-.60203713	-.58022860	0.54853082	310 86	1.5	.7
1965	9	4	12	35	32.4203	1.0	71293	9012	-.33323082	-.06559382	0.94056083	240 101	1.0	.8
1965	9	4	12	35	32.4203	1.0	71293	9117	-.19737445	-.30771923	0.93078043	220 67	1.7	.8
1965	9	13	12	1	56.3658	1.0	71296	9012	-.47749372	-.07702092	0.87525284	270 101	.7	1.0
1965	9	13	12	1	56.3658	1.0	71296	9117	-.32203990	-.33941067	0.88379336	240 76	1.0	.8
1965	9	13	12	5	16.3690	1.0	71297	9012	-.26994050	.00013491	0.96287700	220 109	.7	.8
1965	9	13	12	5	16.3690	1.0	71297	9117	-.14756475	-.23853798	0.95985638	200 62	1.9	1.1
1965	10	4	20	13	37.0581	1.0	71318	9008	.08149666	.22628210	0.97064654	250 80	1.0	.7
1965	10	4	20	13	37.0581	1.0	71318	9115	.11853128	.91132641	0.39425184	230 70	1.2	.6
1965	10	15	22	4	52.2814	1.0	71319	9004	.23249443	.49575182	0.83676548	260 55	.4	.6
1965	10	15	22	4	52.2814	1.0	71319	9008	.47187614	-.43339046	0.76779269	210 134	1.1	1.3

Table 2 (Cont.)

6303004

DATE	TIME	SIGMA	OBS NO	STA NO	L	M	N	OMEGA	PHI	A	b
Y M D H M S		MSEC								SEC	SEC
1964	1 12 17 4	26.8213	1.0	70251	9006	.84215564	-.05937598	0.53545557	200	118	.6 1.2
1964	1 12 17 4	26.8213	3.0	70251	9008	.64933639	.15644535	0.74423592	280	109	1.0 .3
1964	1 13 1 25	26.8221	1.0	70241	9001	.44036457	-.77025830	0.46128212	270	80	.4 1.4
1964	1 13 1 25	26.8221	1.0	70241	9009	-.32513452	-.53760182	0.77799218	210	113	.7 .8
1964	1 14 2 35	54.8213	1.0	70242	9001	-.22530948	-.89160139	0.39278224	320	94	.5 1.1
1964	1 14 2 35	54.8213	1.0	70242	9009	-.70898657	-.44023205	0.55093900	190	113	.7 .9
1964	1 14 5 27	54.8070	1.0	70243	9001	-.88370956	.13298771	0.44874456	200	116	.5 1.2
1964	1 14 5 27	54.8070	1.0	70243	9012	-.33806593	-.41298201	0.84566973	250	82	.7 .7
1964	1 15 0 46	34.8097	1.0	70245	9007	-.03642496	-.90853430	0.41621947	240	96	.8 1.0
1964	1 15 0 46	34.8097	1.0	70245	9009	-.10763137	-.96062915	-.25613888	280	95	.7 .3
1964	1 16 2 0	42.8173	1.0	70224	9007	-.58443827	-.68851079	0.42940051	190	97	.5 .8
1964	1 16 2 0	42.8173	1.0	70224	9009	-.67649984	-.73258105	-.07531913	220	97	1.2 .5
1964	1 16 2 0	54.8216	1.0	70225	9001	-.03252706	-.89577761	-.44331080	200	96	.5 .3
1964	1 16 2 0	54.8216	1.0	70225	9007	-.58249641	-.68407097	0.43902715	180	98	.3 .5
1964	1 16 2 0	54.8216	1.0	70225	9009	-.67818815	-.73220139	-.06278501	220	97	1.1 .4
1964	1 16 2 1	18.8197	1.0	70226	9001	-.03508449	-.90570797	-.42244781	200	95	.5 .3
1964	1 16 2 1	18.8197	1.0	70226	9007	-.57853966	-.67498974	0.45790907	180	98	.3 .5
1964	1 16 2 5	30.8249	1.0	70227	9001	-.06027245	-.98478206	-.16300775	250	94	.4 .3
1964	1 16 2 5	30.8249	1.0	70227	9009	-.69646676	-.68189753	0.22349454	220	102	.7 1.3
1964	1 25 1 37	50.8342	1.0	70246	9009	-.73563088	-.66727895	-.11655905	200	96	.6 1.2
1964	1 25 1 37	50.8342	1.0	70246	9010	-.55860429	-.73621702	-.38202846	200	96	.4 .3
1964	1 29 15 3	18.8382	1.0	70252	9006	.88279175	.30560714	0.35676743	240	109	1.4 .6
1964	1 29 15 3	18.8382	1.0	70252	9008	.57384241	.67372505	0.46561727	320	95	1.1 1.0
1964	1 29 15 7	50.8433	1.0	70253	9006	.77651852	.15345208	0.61112310	240	116	1.5 .5
1964	1 29 15 7	50.8433	1.0	70253	9008	.43046983	.45460111	0.77976506	300	96	1.8 .4
1964	2 2 23 30	19.3499	1.0	70061	9006	-.39992924	.28246615	0.87193433	250	233	.7 .5
1964	2 2 23 30	19.3499	1.0	70061	9008	-.66485339	.37639324	0.64521167	200	233	1.6 .4
1964	2 2 23 39	43.3656	1.0	70136	9006	-.47443070	.82575330	0.30503606	320	256	1.6 .8
1964	2 2 23 39	43.3656	1.0	70136	9008	-.68096402	.70602874	0.19445159	210	252	1.1 .8
1964	2 7 23 57	34.8569	1.0	70062	9006	-.11323457	.48775016	0.86560829	300	255	1.0 .5
1964	2 7 23 57	34.8569	1.0	70062	9008	-.52006378	.56208745	0.64311069	240	239	1.1 .7
1964	2 8 0 2	6.8633	1.0	70137	9006	-.07722512	.81345464	0.57647882	360	261	.7 .3
1964	2 8 0 2	6.8633	1.0	70137	9008	-.50287513	.76854587	0.39554247	250	249	.8 .4
1964	2 8 0 8	26.8735	1.0	70138	9006	-.00421598	.99956468	-.02920062	320	263	1.0 1.3
1964	2 8 0 8	26.8735	1.0	70138	9008	-.43012279	.90240903	-.02554071	230	257	1.0 .3
1964	4 4 19 47	31.0304	1.0	70145	9006	-.25573475	.84587354	0.46807872	360	258	1.0 .6
1964	4 4 19 47	31.0304	1.0	70145	9008	-.59069595	.74774017	0.30325391	240	249	1.0 .7
1964	4 4 22 24	59.0172	1.0	70064	9006	.50786261	-.18565396	0.84119449	220	322	.6 .8
1964	4 4 22 24	59.0172	1.0	70064	9008	.10669316	.00417128	0.99428324	240	312	1.5 .6
1964	4 5 20 48	1.0132	1.0	70146	9006	.14195638	-.04028941	0.98905265	220	352	.7 .5
1964	4 5 20 48	1.0132	1.0	70146	9008	-.31031097	.16317777	0.93652556	220	201	.7 .7
1964	4 5 20 59	45.0308	1.0	70065	9006	.51540871	.72166450	0.46211926	360	274	.9 .7
1964	4 5 20 59	45.0308	1.0	70065	9008	-.11311164	.90614144	0.40614940	330	253	1.3 .8
1964	4 5 23 36	31.0269	1.0	70271	9004	-.02795606	.62435834	0.78063764	240	221	.7 .8
1964	4 5 23 36	31.0269	1.0	70271	9008	.29533406	-.29681760	0.90811734	230	330	.8 1.0
1964	4 8 21 37	39.0205	1.0	70147	9006	.43373961	-.09801748	0.89569109	230	324	.8 .6
1964	4 8 21 37	39.0205	1.0	70147	9008	-.01895035	.11806395	0.99282515	240	228	1.0 .3
1964	4 8 21 40	43.0254	1.0	70148	9006	.58069031	.04560617	0.81284614	260	305	1.2 .8
1964	4 8 21 40	43.0254	1.0	70148	9008	.10668510	.31225899	0.94398761	290	256	1.2 .8
1964	4 14 23 13	5.5367	1.0	70261	9004	-.01134022	.57941927	0.81495074	250	219	1.3 .4
1964	4 14 23 13	5.5367	1.0	70261	9008	.30278574	-.35110865	0.88602681	220	330	1.7 .3
1964	4 19 4 2	39.0493	1.0	71284	9004	-.21215717	-.71003623	0.67144463	230	310	1.0 .7
1964	4 19 4 2	39.0493	1.0	71284	9010	.50995754	.16108900	0.84498144	220	217	.6 .9
1964	4 20 19 20	23.0421	1.0	70067	9006	.11500057	.56337520	0.81815845	350	267	.6 .4
1964	4 20 19 20	23.0421	1.0	70067	9008	-.40750336	.66185237	0.62919985	280	242	1.2 .8
1964	4 20 19 24	39.0481	1.0	70068	9006	.20046122	.85538795	0.47762617	380	267	1.1 1.1
1964	4 20 19 24	39.0481	1.0	70068	9008	-.35521596	.86653501	0.35062615	280	250	.7 .8
1964	4 20 22 9	27.7116	1.0	70322	9004	.21367467	.91300412	0.34751491	230	244	.5 .4
1964	4 20 22 9	27.7116	1.0	70322	9008	.74233347	.09124015	0.66378931	330	285	1.1 .6
1964	4 20 22 9	47.7204	1.0	70323	9004	.22435455	.91733233	0.32888666	230	245	.6 .4

Table 2 (Cont.)

6303004

DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA PHI	A SEC	B SEC
Y	M	D	H	M	S									
1964	4	20	22	9	47.7204	1.0	70323	9006	.89660416	-.0971928	0.42902524	220 292	.7	.7
1964	4	20	22	9	47.7204	1.0	70323	9008	.76140624	-.10176418	0.64023792	330 284	1.0	.5
1964	4	20	22	10	7.0509	1.0	70324	9006	.90549971	-.10315061	0.41161903	220 291	.7	.7
1964	4	20	22	10	7.0509	1.0	70324	9008	.77923306	-.11168864	0.61670210	330 283	1.1	.6
1964	4	21	3	46	15.0477	1.0	70116	9004	.06787585	-.94821023	0.31030667	230 289	1.3	1.0
1964	4	21	3	46	15.0477	1.0	70116	9009	.60896199	-.03208509	0.79255021	230 240	1.3	.8
1964	4	23	20	7	27.0511	1.0	70180	9006	.54324436	-.30882747	0.78071196	310 290	1.7	1.6
1964	4	23	20	7	27.0511	1.0	70180	9008	-.02757231	.59030383	0.80671008	320 248	.8	.5
1964	4	23	22	53	3.0522	1.0	70069	9004	.26334952	.67416144	0.69003868	280 236	1.9	.6
1964	4	23	22	53	3.0522	1.0	70069	9008	.57051546	-.34561646	0.74502441	250 305	1.6	.8
1964	4	23	22	56	27.0523	1.0	70256	9004	.45086759	.74506586	0.49149311	290 245	1.2	.3
1964	4	23	22	56	27.0523	1.0	70256	9008	.75853715	-.30063055	0.57813724	260 293	1.0	1.1
1964	4	26	18	6	39.0490	1.0	70181	9006	-.29220910	.47154132	0.83202321	310 246	.8	1.0
1964	4	26	18	6	39.0490	1.0	70181	9008	-.62072498	.52149481	0.58544313	230 237	1.4	1.6
1964	4	27	19	23	55.0580	1.0	70070	9006	.47799633	.74518992	0.46498547	360 273	.7	.9
1964	4	27	19	23	55.0580	1.0	70070	9008	-.14974398	.90487805	0.39846261	320 253	1.2	.9
1964	4	27	22	0	51.0528	1.0	70220	9004	-.03009388	.64374060	0.76465182	240 222	1.5	.4
1964	4	27	22	0	51.0528	1.0	70220	9008	.29894955	-.28101109	0.91195501	230 330	1.6	1.0
1964	4	29	18	59	23.0586	1.0	70262	9006	.32355871	.80618854	0.49534816	380 270	1.0	.5
1964	4	29	18	59	23.0586	1.0	70262	9008	-.27353379	.88037283	0.38745702	300 251	.6	1.1
1964	4	29	21	40	35.0583	1.0	70221	9004	.11812769	.81407434	0.56862114	240 236	.8	.4
1964	4	29	21	40	35.0583	1.0	70221	9008	.53116451	-.10607109	0.84060287	280 301	.7	1.1
1964	4	30	3	16	7.0730	1.0	70272	9004	-.12006885	-.81614158	0.56524012	230 302	1.4	1.1
1964	4	30	3	16	7.0730	1.0	70272	9010	.63829998	.06729178	0.76684089	240 229	.7	.6
1964	4	30	3	20	43.0525	1.0	70228	9004	.00110898	-.94676124	0.32193466	220 290	1.6	.8
1964	4	30	3	20	43.0525	1.0	70228	9010	.82136110	-.11900107	0.55785723	260 243	1.9	1.0
1964	4	30	3	20	59.0637	1.0	70229	9004	.00686275	-.95171843	0.30689564	220 290	1.8	.8
1964	4	30	3	20	59.0637	1.0	70229	9009	.55834068	-.08383870	0.82536462	230 241	.8	.4
1964	4	30	3	20	59.0637	1.0	70229	9010	.82997747	-.12939483	0.54258122	260 244	1.3	.7
1964	4	30	3	21	19.0548	1.0	70230	9009	.57265137	-.09698811	0.81404159	230 242	.6	.4
1964	4	30	3	21	19.0548	1.0	70230	9010	.84034255	-.14221120	0.52306823	260 245	1.4	.7
1964	5	1	18	34	55.0628	1.0	70263	9006	.15706388	.84926046	0.50407104	380 266	.7	.5
1964	5	1	18	34	55.0628	1.0	70263	9008	-.38025647	.84959711	0.36549934	280 250	.4	.5
1964	5	1	21	17	47.0572	1.0	70264	9006	.81197897	-.15095079	0.56382977	220 298	1.0	.4
1964	5	1	21	17	47.0572	1.0	70264	9008	.59423834	-.04191824	0.80319590	310 291	.8	.5
1964	5	2	19	47	43.0601	1.0	70257	9006	.79076725	.51234357	0.33494958	310 279	1.0	.3
1964	5	2	19	47	43.0601	1.0	70257	9008	.26938974	.88479255	0.38022534	360 260	.8	1.1
1964	5	2	22	29	3.0622	1.0	70273	9004	.39949460	.66299714	0.63311836	300 242	.3	.4
1964	5	2	22	29	3.0622	1.0	70273	9008	.65978322	-.37851603	0.64916232	250 300	.5	.7
1964	5	3	18	8	51.0637	1.0	70265	9006	-.03473006	.76949488	0.63770797	370 262	.8	.3
1964	5	3	18	8	51.0637	1.0	70265	9008	-.48927742	.75122718	0.44301843	260 246	.7	.5
1964	5	4	21	58	23.0653	1.0	70274	9004	-.02063943	.53760867	0.84294183	250 215	.4	.4
1964	5	4	21	58	23.0653	1.0	70274	9008	.28642226	-.38791352	0.87606243	220 332	1.3	.5
1964	5	4	22	1	55.0676	1.0	70266	9004	.18871916	.65909621	0.72799537	270 232	.6	.4
1964	5	4	22	1	55.0676	1.0	70266	9008	.50497726	-.34124104	0.79281304	250 310	1.2	.7
1964	5	5	17	41	3.0602	1.0	70151	9006	-.20469959	.51625928	0.83160954	330 251	.9	.4
1964	5	5	17	41	3.0602	1.0	70151	9008	-.57749665	.56430804	0.58996106	240 238	.5	.4
1964	5	6	18	51	23.0623	1.0	70152	9006	.36080831	.29642716	0.80427841	310 290	.4	.4
1964	5	6	18	51	23.0623	1.0	70152	9008	-.20119070	.52431014	0.82741838	290 238	1.4	.4
1964	5	6	18	57	23.0692	1.0	70153	9006	.56220546	.66957489	0.48538077	350 276	.8	.4
1964	5	6	18	57	23.0692	1.0	70153	9008	-.06275522	.89224241	0.44717476	330 253	.4	.4
1964	5	7	20	7	31.0712	1.0	70154	9006	.86841049	.16865682	0.46628114	270 288	1.2	.4
1964	5	7	20	7	31.0712	1.0	70154	9008	.54723067	.53581367	0.64299479	370 270	1.1	.4
1964	5	8	15	47	19.0799	1.0	70268	9005	.04284387	.99614587	0.07653632	250 278	.7	.4
1964	5	8	15	47	19.0799	1.0	70268	9006	-.65104014	.49595898	0.17249745	230 251	.4	.3
1964	5	8	18	32	43.0717	1.0	70182	9006	.42368381	.75210327	0.50480957	370 273	1.4	.5
1964	5	8	18	32	43.0717	1.0	70182	9008	-.19406985	.88615033	0.42078113	310 252	1.4	.7
1964	5	8	21	21	15.0790	1.0	70222	9004	.42568598	.88193096	0.17427007	230 250	.7	.4
1964	5	8	21	21	15.0790	1.0	70222	9008	.93124134	.00148335	0.36440001	300 282	1.3	.6
1964	5	9	16	46	43.0554	1.0	70258	9005	.55539254	.46250824	0.69110437	230 312	1.2	.5

Table 2 (Cont.)

6303004

DATE			TIME			SIGMA	OBS NO	STA NO	L	M	N	OMEGA	PHI	A	B
Y	M	D	H	M	S	MSEC								SEC	SEC
1964	5	4	16	46	43.0554	1.0	70258	9006	-.35900064	.11291343	0.92648211	240	215	.7	.3
1964	5	11	2	29	15.0688	1.0	70259	9004	.02368431	-.93984036	0.34079195	220	291	.7	1.0
1964	5	11	2	29	15.0688	1.0	70259	9010	.82550980	-.08726046	0.55760128	260	243	1.3	.6
1964	5	12	17	37	51.0721	1.0	70155	9006	.00796322	.45527696	0.89031426	320	262	1.1	.4
1964	5	12	17	37	51.0721	1.0	70155	9008	-.46281583	.56442412	0.68353999	260	237	1.0	.0
1964	5	13	2	4	59.0851	1.0	70156	9004	.11511501	-.93645163	0.33137121	230	289	1.0	.5
1964	5	13	2	4	59.0851	1.0	70156	9009	.63204059	.01135715	0.77485206	220	239	.8	.7
1964	5	13	16	1	7.0794	1.0	70275	9005	.40703719	.70521193	0.58051431	260	298	1.3	.7
1964	5	13	16	1	7.0794	1.0	70275	9006	-.59676761	.31290249	0.73889137	270	236	.4	.4
1964	5	13	16	6	39.0706	1.0	70269	9005	.34389774	.90747351	0.24130100	240	285	.7	.7
1964	5	13	16	6	39.0706	1.0	70269	9006	-.67407712	.61258867	0.41274103	290	249	.7	.4
1964	5	14	17	18	3.0835	1.0	70260	9006	-.08230232	.83600062	0.54252124	370	261	.9	.8
1964	5	14	17	18	3.0835	1.0	70260	9008	-.50721395	.77917722	0.36826196	250	247	.9	.3
1964	5	14	20	4	3.0807	1.0	70157	9006	.88401255	.01410809	0.46725023	240	291	1.1	.8
1964	5	14	20	4	3.0807	1.0	70157	9008	.66798078	.30544518	0.67860513	350	278	1.0	.9
1964	5	15	1	41	43.0855	1.0	70158	9004	.23805937	-.93771413	0.25302163	240	286	.4	.4
1964	5	15	1	41	43.0855	1.0	70158	9009	.73533900	.04231674	0.67636446	220	243	.5	.7
1964	5	15	1	45	7.0855	1.0	70159	9004	.29389512	-.95505850	0.03857815	210	280	1.1	.9
1964	5	15	1	45	7.0855	1.0	70159	9009	.86189533	-.04758705	0.50484841	240	250	1.5	.4
1964	5	15	18	24	59.0744	1.0	70160	9006	.46449656	.33154067	0.82117217	310	289	.7	.5
1964	5	15	18	24	59.0744	1.0	70160	9008	-.11040069	.58446743	0.80387158	310	244	1.4	.9
1964	5	15	18	29	35.0720	1.0	70183	9006	.62375611	.59564655	0.50609634	340	279	.6	1.1
1964	5	15	18	29	35.0720	1.0	70183	9008	.01632042	.86733366	0.49745948	340	254	1.5	.7
1964	5	16	16	58	55.0971	1.0	70184	9006	-.17980063	.98269678	0.00351830	300	261	1.0	1.2
1964	5	16	16	58	55.0971	1.0	70184	9008	-.51967274	.85436291	-.00206430	210	255	.8	.3
1964	5	17	1	17	47.0902	1.0	70231	9004	.35114105	-.91299905	0.20764413	250	283	1.0	.5
1964	5	17	1	17	47.0902	1.0	70231	9009	.79468055	.09917337	0.59887183	220	245	1.0	.5
1964	5	17	1	21	31.0875	1.0	70232	9004	.40039116	-.91563666	-.03600591	210	278	.7	.7
1964	5	17	1	21	31.0875	1.0	70232	9009	.91570735	.01860929	0.40141467	230	252	.3	1.2
1964	5	17	6	49	40.6462	1.0	70168	9001	-.62075188	-.38469611	0.68313689	340	285	.7	.5
1964	5	17	6	49	40.6462	1.0	70168	9012	.25120985	-.71980028	0.64713304	220	237	.3	.4
1964	5	17	20	52	43.0886	1.0	70276	9004	.45119863	.85557979	0.24343488	240	249	.4	.7
1964	5	17	20	52	43.0886	1.0	70276	9008	.90290876	-.08259793	0.42182147	290	284	1.0	.4
1964	5	18	16	24	15.0813	1.0	70162	9006	-.37591106	.50321513	0.77811658	310	248	1.1	.4
1964	5	18	16	24	15.0813	1.0	70162	9008	-.65778771	.52905416	0.53611288	220	238	1.1	.6
1964	5	18	19	10	11.0832	1.0	70163	9006	.65690543	.01668094	0.75378843	260	303	.9	.6
1964	5	18	19	10	11.0832	1.0	70163	9008	.23088313	.28562136	0.93011473	310	268	.7	.8
1964	5	22	21	11	19.1021	1.0	70278	9004	.52715477	.67304268	0.51876912	300	246	.6	1.0
1964	5	22	21	11	19.1021	1.0	70278	9008	.75361066	-.36950846	0.54335346	250	294	.3	.9
1964	5	23	16	42	15.0879	1.0	70201	9006	-.07284882	.23604234	0.96900829	270	248	1.2	1.2
1964	5	23	16	42	15.0879	1.0	70201	9008	-.49517641	.38797999	0.77734925	240	226	.8	.8
1964	5	26	14	43	59.1002	1.0	70279	9005	.27810844	.75190788	0.59773760	280	295	.4	.3
1964	5	26	14	43	59.1002	1.0	70279	9006	-.70003487	.28004160	0.85690782	250	237	1.0	.7
1964	5	28	5	57	21.8096	1.0	70034	9001	-.60226987	-.46314122	0.65020859	340	281	.8	.6
1964	5	28	5	57	21.8096	1.0	70034	9012	.26397156	-.75073546	0.60557021	210	239	1.4	.5
1964	5	28	6	0	39.0995	1.0	70170	9001	-.69920010	-.60653190	0.37846833	330	277	.7	.6
1964	5	28	6	0	39.0995	1.0	70170	9012	.19950761	-.87142061	0.44813261	220	246	.4	1.0
1964	5	29	18	16	57.1730	1.0	70164	9006	.62616028	.03999471	0.77866792	260	304	.3	.5
1964	5	29	18	16	57.1730	1.0	70164	9008	.17917614	.30937538	0.93390727	300	263	1.5	.3
1964	5	29	18	23	18.9820	1.0	70185	9006	.86284317	.28911122	0.41482799	270	285	1.0	1.2
1964	5	29	18	23	18.9820	1.0	70185	9008	.49057202	.68104030	0.54362046	370	266	1.0	.8
1964	5	30	2	57	51.0198	1.0	70171	9007	.12586822	-.77243989	0.62249001	230	265	.4	.5
1964	5	30	2	57	51.0198	1.0	70171	9010	.34338426	-.88034518	-.32723022	240	263	.7	.4
1964	5	30	16	44	39.1077	1.0	70202	9006	.23128466	.64864349	0.72509932	350	270	1.5	1.6
1964	5	30	16	44	39.1077	1.0	70202	9008	-.32727176	.75051714	0.57412300	290	245	.4	1.0
1964	6	7	1	17	43.1112	1.0	70172	9007	.61863467	-.51454892	0.59374283	210	261	.8	.7
1964	6	7	1	17	43.1112	1.0	70172	9009	.73863376	-.67378816	0.02072882	310	262	.7	.4
1964	6	7	1	21	31.1099	1.0	70173	9007	.68918977	-.62001691	0.37496199	250	264	.4	.5
1964	6	7	1	21	31.1099	1.0	70173	9009	.67910411	-.67083296	-.29799454	270	264	.7	.5
1964	6	7	6	36	39.1057	1.0	70174	9001	-.73051845	.11512701	0.67311854	250	302	.7	.7

Table 2 (Cont.)

6303004

DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
Y	M	D	H	M	S										
1964	6	7	6	36	39.1157	1.0	70174	9012	.01603767	-.41668595	0.90889902	230	228	.7	.7
1964	6	9	0	39	51.1140	1.0	70117	9004	-.01400336	-.94582361	0.32437880	210	290	1.3	1.0
1964	6	9	0	39	51.1140	1.0	70117	9009	.52499851	-.11102103	0.84383108	220	241	.8	.5
1964	6	9	3	29	3.1134	1.0	70233	9001	.23493587	-.82797605	0.50917659	340	255	.6	.4
1964	6	9	3	29	3.1134	1.0	70233	9009	-.51224893	-.46078580	0.72476029	220	292	.5	.7
1964	6	9	3	40	35.1132	1.0	70247	9001	.08171511	-.92282374	-.37645582	210	262	.5	.3
1964	6	9	3	40	35.1132	1.0	70247	9009	-.62277806	-.78222480	0.01648788	230	271	.7	1.0
1964	6	9	3	42	47.1157	1.0	70248	9001	.06019783	-.87011148	-.9916483	190	262	.4	.7
1964	6	9	3	42	47.1157	1.0	70248	9009	-.61778660	-.77560671	-.12951428	220	269	.3	.7
1964	6	9	6	15	3.1105	1.0	70249	9001	-.85031531	-.07533983	0.52085294	270	291	.5	1.5
1964	6	9	6	15	3.1105	1.0	70249	9012	-.05585136	-.64208785	0.76459389	260	241	.4	1.3
1964	6	9	6	20	31.1291	1.0	70250	9001	-.96667793	-.20019099	0.15955359	240	281	.9	.7
1964	6	9	6	20	31.1291	1.0	70250	9012	-.26647580	-.85365512	0.44750819	290	253	.6	.5
1964	6	10	2	3	55.1213	1.0	70234	9007	.19229611	-.74769939	0.63558464	220	265	.4	.5
1964	6	10	2	3	55.1213	1.0	70234	9009	.17460174	-.98391669	0.03771180	330	266	1.2	.7
1964	6	10	2	7	55.1171	1.0	70235	9007	.20085750	-.89559331	0.39694948	260	264	.8	1.0
1964	6	10	2	7	55.1171	1.0	70235	9010	.34281947	-.77766200	-.52698826	200	263	1.4	1.0
1964	6	11	0	34	47.1214	1.0	70175	9007	.89157435	-.43921217	0.11039859	250	267	.7	.5
1964	6	11	0	34	47.1214	1.0	70175	9009	.77546612	-.40312451	-.48175376	220	267	.6	.3
1964	6	11	0	38	59.1230	1.0	70319	9007	.87627857	-.43685174	-.20321522	260	271	1.5	1.0
1964	6	11	0	38	59.1230	1.0	70319	9009	.64546351	-.34526963	-.68129700	180	271	.8	.5
1964	6	11	0	39	23.1225	1.0	70320	9007	.87060000	-.43319017	-.23324218	260	272	1.0	.7
1964	6	11	0	39	23.1225	1.0	70320	9009	.63268989	-.33798813	-.69675500	180	271	.6	.3
1964	6	11	0	39	23.1225	1.0	70320	9011	.78727817	-.60974826	0.09165229	240	268	1.2	.3
1964	6	11	0	39	47.1187	1.0	70321	9009	.61993324	-.33055120	-.71163100	180	272	.8	.5
1964	6	11	0	39	47.1187	1.0	70321	9011	.78861467	-.61164088	0.06310575	250	269	1.8	.5
1964	6	11	5	57	7.1167	1.0	71286	9001	-.94243614	-.33016852	0.05294214	240	277	.6	.3
1964	6	11	5	57	7.1167	1.0	71286	9012	-.19833262	-.93340048	0.29904467	270	254	.7	1.3
1964	6	11	6	0	43.1131	1.0	70176	9001	-.92261563	-.34441281	-.17366697	200	273	.4	.3
1964	6	11	6	0	43.1131	1.0	70176	9012	-.27407583	-.96112539	0.03347274	240	258	1.0	.6
1964	6	12	1	37	55.0937	1.0	70236	9007	.31793510	-.66397682	0.67679543	210	263	.7	1.0
1964	6	12	1	37	55.0937	1.0	70236	9010	.56446327	-.79379044	-.22644636	250	261	.4	.3
1964	6	12	1	48	3.1194	1.0	70187	9007	.35163741	-.93568266	-.02913918	310	265	.6	.7
1964	6	12	1	48	3.1194	1.0	70187	9011	.21658456	-.93303074	0.28730605	230	263	.4	.7
1964	6	13	2	58	19.1226	1.0	70188	9007	-.38240784	-.92175107	0.06433668	260	263	1.6	.5
1964	6	13	2	58	19.1226	1.0	70188	9011	-.35998903	-.88015439	0.30941259	200	262	.8	.4
1964	9	13	21	42	37.8286	1.0	70527	9006	.34630890	.62098165	0.70317276	350	100	.6	.3
1964	9	13	21	42	37.8286	1.0	70527	9008	-.24886567	.76962518	0.58799912	300	75	.7	.3
1964	9	18	5	9	47.3359	1.0	70529	9004	.26347307	-.96417516	-.03079289	220	104	.4	.4
1964	9	18	5	9	47.3359	1.0	70529	9009	.88644589	-.09401956	0.45318209	260	82	1.2	.5
1964	9	18	22	6	31.3395	1.0	70530	9006	.54442910	.25975626	0.79757360	280	116	.3	.5
1964	9	18	22	6	31.3395	1.0	70530	9008	.01184925	.53480495	0.84489246	300	76	1.3	1.0
1964	9	18	22	11	43.3455	1.0	70532	9006	.34703274	-.02181248	0.93759932	220	145	.6	.7
1964	9	18	22	11	43.3455	1.0	70532	9008	-.10725177	.19002339	0.97590377	220	42	1.8	.3
1964	9	21	0	30	31.3439	1.0	70533	9004	.27911440	.70655942	0.65028374	260	64	1.4	1.4
1964	9	21	0	30	31.3439	1.0	70533	9008	.60251878	-.27541022	0.74907966	240	124	.7	.4
1964	9	21	22	52	31.3401	1.0	70534	9006	.75287451	.01963444	0.65787116	240	120	1.5	.8
1964	9	21	22	52	31.3401	1.0	70534	9008	.41043981	.29116121	0.86415526	300	101	1.4	.7
1964	9	25	7	29	51.2537	3.0	70525	9007	-.35986099	-.53571231	-.76387983	290	73	1.7	.6
1964	9	25	7	29	51.2537	1.0	70525	9011	-.45949187	-.77648300	-.43120920	320	76	1.1	1.1
1964	9	26	23	10	27.3404	1.0	70535	9006	.89926406	-.07078003	0.43164145	220	114	.5	.7
1964	9	26	23	10	27.3404	1.0	70535	9008	.75735256	.15609875	0.63407435	310	107	1.1	.5
1964	9	26	23	12	47.3522	1.0	70536	9006	.82874168	-.12683626	0.54506861	210	118	.8	.4
1964	9	26	23	12	47.3522	1.0	70536	9008	.63321810	.06729834	0.77104200	290	112	.5	.8
1964	9	26	23	15	23.3554	1.0	70537	9006	.73380037	-.19098911	0.65196639	200	125	.4	.6
1964	9	26	23	15	23.3554	1.0	70537	9008	.48339066	-.02822928	0.87494947	260	121	1.0	.3
1964	9	28	22	46	47.3453	1.0	70538	9006	.84038601	-.03517913	0.54084543	220	117	.6	.6
1964	9	28	22	46	47.3453	1.0	70538	9008	.61263851	.21264504	0.76122017	310	107	.5	1.0
1964	9	28	22	50	27.3499	1.0	70539	9006	.70422381	-.13943010	0.69615233	210	126	.8	.6
1964	9	28	22	50	27.3499	1.0	70539	9008	.41021074	.05028870	0.91060320	260	118	1.2	.4

Table 2 (Cont.)

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DATE	TIME	SIGMA	OBS NO	STA NO	L	M	N	OMEGA	PHI	A	B
Y M D H M S	MSEC									SEC	SEC
1964 9 29 23 57 3.3492	1.0	70540	9004	.48076865	.76228500	0.43333944	260	75	1.0	.3	
1964 9 29 23 57 3.3492	1.0	70540	9008	.80489380	-.23791010	0.54364028	250	113	.7	.8	
1964 9 30 11 13 7.3472	1.0	70526	9001	-.73872388	.19947399	0.64381454	220	123	.6	.3	
1964 9 30 11 13 7.3472	1.0	70526	9012	-.08089916	-.30426421	0.44914626	210	61	.9	.3	
1964 10 1 1 13 3.3482	1.0	70832	9004	.46612764	.24124357	0.85119126	300	76	.8	.3	
1964 10 1 1 13 3.3482	1.0	70832	9008	.53703728	-.58317722	0.60950413	190	124	.4	.9	
1964 10 1 23 40 27.6768	1.0	70845	9004	.04026445	.57709653	0.81568276	220	46	.7	.5	
1964 10 1 23 40 27.6768	1.0	70845	9008	.33742225	-.30466184	0.89068928	200	145	.5	.6	
1964 10 1 23 40 51.6707	1.0	70846	9004	.02126111	.56314495	0.82608458	220	44	.7	.5	
1964 10 1 23 40 51.6707	1.0	70846	9008	.31587802	-.31066925	0.89649634	200	147	.5	.6	
1964 10 2 10 44 59.3508	1.0	70856	9001	-.83700633	.04954851	0.54494527	240	116	.4	.4	
1964 10 2 10 44 59.3508	1.0	70856	9012	-.13020202	-.51229920	0.84887983	240	70	1.0	1.1	
1964 10 2 10 48 23.3519	1.0	70857	9001	-.70029919	.14683430	0.69858481	220	125	.7	.4	
1964 10 2 10 48 23.3519	1.0	70857	9012	-.00445581	.35425580	0.93513794	200	54	1.5	.6	
1964 10 2 19 8 35.3530	1.0	70810	9006	-.32135223	.56468089	0.76017645	300	77	.7	.3	
1964 10 2 19 8 35.3530	1.0	70810	9008	-.62044949	.57645114	0.53173914	220	68	.9	.7	
1964 10 2 19 12 11.3561	1.0	70811	9006	-.26957046	.32438908	0.90669923	250	65	.6	.7	
1964 10 2 19 12 11.3561	1.0	70811	9008	-.59057116	.42175202	0.68800504	210	58	.8	.5	
1964 10 3 20 27 3.3624	1.0	70813	9006	.14832952	.05494782	0.98741029	210	139	.5	.3	
1964 10 3 20 27 3.3624	1.0	70813	9008	-.28743828	.24508850	0.92591083	210	37	1.8	1.0	
1964 10 3 23 10 43.3554	1.0	70833	9004	.18972747	.76812459	0.61154567	230	63	.4	1.1	
1964 10 3 23 10 43.3554	1.0	70833	9008	.56264110	-.14081213	0.81462073	240	123	.8	.4	
1964 10 3 23 14 31.3632	1.0	70834	9004	.03413270	.64544999	0.76303949	220	50	.9	.5	
1964 10 3 23 14 31.3632	1.0	70834	9008	.34934649	-.22906750	0.90856211	210	142	.8	.8	
1964 10 4 4 43 54.8588	1.0	70853	9004	-.05376382	-.90592558	0.41919820	210	116	.5	.3	
1964 10 4 4 43 54.8588	1.0	70853	9010	.72445475	-.12179030	0.67847803	240	68	.6	.5	
1964 10 4 4 44 14.8596	1.0	70854	9004	-.06792184	-.89763084	0.43548306	210	116	.5	.3	
1964 10 4 4 44 14.8596	1.0	70854	9009	.42433835	-.06278837	0.90332419	190	63	1.0	1.0	
1964 10 4 4 44 14.8596	1.0	70854	9010	.71113583	-.11038603	0.69433476	240	67	.6	.6	
1964 10 4 4 44 30.8598	1.0	70855	9004	-.07451085	-.89074546	0.44835327	210	117	.5	.3	
1964 10 4 4 44 30.8598	1.0	70855	9009	.41342329	-.05429167	0.90891892	190	62	1.0	1.0	
1964 10 4 4 47 23.3622	1.0	70865	9004	-.14814667	-.80329360	0.57686390	200	122	1.2	.5	
1964 10 4 4 47 23.3622	1.0	70865	9010	.57888685	.00137753	0.81540672	220	56	.7	1.1	
1964 10 4 4 50 51.3642	1.0	70866	9004	-.23912514	-.67136132	0.70149351	200	132	.5	.8	
1964 10 4 4 50 51.3642	1.0	70866	9010	.43204285	.12511503	0.89313224	190	37	.4	.7	
1964 10 4 10 20 15.3540	1.0	70858	9001	-.79440117	-.01687430	0.60715839	250	117	.7	.4	
1964 10 4 10 20 15.3540	1.0	70858	9012	-.03546566	-.55187805	0.83317033	230	65	.7	.7	
1964 10 4 10 22 35.3591	1.0	70859	9001	-.69775851	.06096673	0.71373393	230	123	1.3	.7	
1964 10 4 10 22 35.3591	1.0	70859	9012	.03688796	-.43995344	0.89726264	210	55	1.7	.5	
1964 10 4 18 43 51.3543	1.0	70814	9006	-.42694188	.49799560	0.75479866	280	72	.8	.7	
1964 10 4 18 43 51.3543	1.0	70814	9008	-.67200288	.51903894	0.52821464	200	67	1.4	1.2	
1964 10 4 18 47 23.3508	1.0	70815	9006	-.35792569	.27978241	0.89084847	240	59	.6	.4	
1964 10 4 18 47 23.3508	1.0	70815	9008	-.63633574	.37743346	0.67277099	200	57	1.1	1.0	
1964 10 4 18 50 43.3594	1.0	70816	9006	-.29764584	.08356087	0.95101206	200	34	.7	.8	
1964 10 4 18 50 43.3594	1.0	70816	9008	-.59420089	.22714614	0.77157627	180	44	1.2	1.1	
1964 10 4 21 34 19.3595	1.0	70817	9006	.60800777	.06230974	0.79148218	230	124	.3	.4	
1964 10 4 21 34 19.3595	1.0	70817	9008	.18271532	.31667804	0.93076857	260	88	1.6	.5	
1964 10 5 0 19 59.3474	1.0	70835	9004	.55887908	.51193673	0.65236106	300	75	.7	.4	
1964 10 5 0 19 59.3474	1.0	70835	9008	.68424611	-.45520641	0.56973185	210	119	1.3	1.2	
1964 10 5 0 23 27.3519	1.0	70836	9004	.34715759	.43348430	0.83160866	270	64	.8	.8	
1964 10 5 0 23 27.3519	1.0	70836	9008	.52716951	-.47646762	0.70361276	200	128	.7	1.2	
1964 10 5 22 44 31.3618	1.0	70837	9004	.16187041	.82819423	0.53655595	220	66	.9	1.2	
1964 10 5 22 44 31.3618	1.0	70837	9008	.57778913	-.02115110	0.81591198	260	117	1.6	.6	
1964 10 6 9 59 31.3613	1.0	70860	9001	-.55894655	.07218325	0.82605589	230	130	1.3	.7	
1964 10 6 9 59 31.3613	1.0	70860	9012	.15455461	-.38797279	0.90861983	180	42	.6	.7	
1964 10 6 21 9 55.3643	1.0	70818	9006	.51220689	.08354950	0.85478862	230	127	.8	.6	
1964 10 6 21 9 55.3643	1.0	70818	9008	.02641645	.32482750	0.94408913	250	75	.5	.4	
1964 10 6 23 55 55.3603	1.0	70838	9004	.43540454	.57720646	0.69083688	280	69	.6	.3	
1964 10 6 23 55 55.3603	1.0	70838	9008	.64236497	-.39570480	0.65634210	220	122	.7	.7	
1964 10 8 23 30 59.3636	1.0	70840	9004	.35855555	.64318811	0.67656999	260	87	.4	.3	

Table 2 (Cont.)

6303004

DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
Y	M	D	H	M	S										
1964	10	8	23	30	59.3636	1.0	70840	9008	.62587048	-.32600876	0.70852271	220	123	1.4	.6
1964	10	9	10	42	51.3633	1.0	70861	9001	-.76105959	.20995389	0.61376515	210	122	.4	.3
1964	10	9	10	42	51.3633	1.0	70861	9012	-.13524885	-.28800132	0.94803111	210	68	.4	.7
1964	10	9	21	54	59.3659	1.0	70820	9006	.70538759	-.08535804	0.70366352	210	125	.5	.5
1964	10	9	21	54	59.3659	1.0	70820	9008	.39755667	.12413002	0.90914269	260	112	1.2	.7
1964	10	10	20	20	59.3755	1.0	70821	9006	.30254873	.09412349	0.94847511	220	132	1.0	.3
1964	10	10	20	20	59.3755	1.0	70821	9008	-.15836618	.30186117	0.94010637	220	51	.7	.7
1964	10	25	21	20	27.4142	1.0	70841	9004	.02275537	.70844933	0.70539474	200	55	.4	.7
1964	10	25	21	20	27.4142	1.0	70841	9008	.34826084	-.10698230	0.93127288	210	134	1.5	.6
1964	10	26	19	43	43.6426	1.0	70823	9006	.40670058	.01277018	0.91347226	200	137	.4	.5
1964	10	26	19	43	43.6426	1.0	70823	9008	-.01834128	.21952301	0.97543490	210	62	.7	.7
1964	10	26	19	46	40.8054	1.0	70847	9006	.30453943	-.11091717	0.94601962	180	158	1.1	1.0
1964	10	26	19	46	40.8054	1.0	70847	9008	-.08922160	.06870245	0.99363951	180	12	.6	.4
1964	10	26	19	47	4.9672	1.0	70848	9006	.29105612	-.12671001	0.94827786	180	162	.8	.8
1964	10	26	19	47	4.9672	1.0	70848	9008	-.09845243	.04977950	0.99389593	180	1	.5	.3
1964	10	26	22	35	19.6194	1.0	70843	9004	.00296988	.37668159	0.92633804	200	29	.8	.6
1964	10	26	22	35	19.6194	1.0	70843	9008	.25893461	-.42029288	0.86965899	170	151	.4	.7
1964	10	27	18	10	7.3937	1.0	70824	9006	-.05074436	-.00788869	0.99868052	180	347	.4	.5
1964	10	27	18	10	7.3937	1.0	70824	9008	-.41118856	.15816718	0.89772329	180	28	1.4	.3
1964	10	27	20	54	51.3885	1.0	70825	9006	.58599946	-.20157658	0.78483853	180	134	.5	.3
1964	10	27	20	54	51.3885	1.0	70825	9008	.27760524	-.04751068	0.95951971	210	134	1.2	.3
1964	10	28	19	18	15.3959	1.0	70826	9006	.31907319	.03071422	0.94723225	200	140	.8	.7
1964	10	28	19	18	15.3959	1.0	70826	9008	-.11061464	.22967436	0.96696127	200	48	1.0	.6
1964	10	28	22	8	23.8450	1.0	70850	9004	.32368224	.45938606	0.88792094	210	38	.7	1.1
1964	10	28	22	8	23.8450	1.0	70850	9008	.28958871	-.36327374	0.88553406	180	149	1.3	.6
1964	10	28	22	8	43.8708	1.0	70851	9004	.00740909	.44946116	0.89326915	200	35	.7	1.1
1964	10	28	22	8	43.8708	1.0	70851	9008	.27316776	-.36642545	0.88944464	180	151	1.4	.7
1964	10	29	20	29	25.4101	1.0	70827	9006	.53023284	-.16945596	0.83074534	180	138	.3	.9
1964	10	29	20	29	25.4101	1.0	70827	9008	.19092821	-.00273526	0.98160019	200	132	1.6	.3
1964	10	29	20	31	51.4330	1.0	70828	9006	.43186354	-.23821701	0.86991180	170	150	1.0	.9
1964	10	29	20	31	51.4330	1.0	70828	9008	.09098860	-.09022430	0.99175635	180	175	1.1	.3
1964	10	31	17	19	7.4079	1.0	70830	9006	-.18305413	-.05542901	0.98153900	170	352	.3	.6
1964	10	31	17	19	7.4079	1.0	70830	9008	-.49720411	.10305968	0.86149102	170	27	.8	.5
1964	10	31	20	3	59.4009	1.0	70831	9006	.46508336	-.14354696	0.87355122	180	143	1.1	.3
1964	10	31	20	3	59.4009	1.0	70831	9008	.10121595	.03069423	0.90439087	190	122	.6	.7
1964	11	2	16	48	39.7030	1.0	70902	9005	.51237729	.46921959	0.71923744	190	130	1.0	.8
1964	11	2	16	48	39.7030	1.0	70902	9008	-.59029437	.28707952	0.75441229	180	49	.9	.3
1964	11	2	16	49	3.4022	1.0	70903	9005	.51291931	.45047739	0.73074202	190	131	1.0	.8
1964	11	2	16	49	3.4022	1.0	70903	9006	-.29820003	.14105753	0.94402305	200	43	1.0	.5
1964	11	2	16	49	3.4022	1.0	70903	9008	-.58556747	.26992827	0.76436213	180	48	.9	.3
1964	11	2	16	49	15.7038	1.0	70904	9005	.31314496	.44069506	0.73652570	190	132	1.0	.9
1964	11	2	16	49	15.7038	1.0	70904	9008	-.58309878	.26099315	0.76933633	180	47	1.5	.4
1964	11	7	19	55	3.7270	1.0	70885	9006	.55420549	-.16034064	0.81679077	180	136	.3	.5
1964	11	7	19	55	3.7270	1.0	70885	9008	.22574682	.00622723	0.97416610	200	128	.3	.3
1964	11	8	21	6	47.7437	1.0	70871	9004	.07581077	.54636258	0.83411070	210	48	.6	.6
1964	11	8	21	6	47.7437	1.0	70871	9008	.35294061	-.29338605	0.88845796	190	142	.5	1.0
1964	11	8	21	9	51.7511	1.0	70872	9004	-.06231443	.45163215	0.89002546	190	30	.5	.7
1964	11	8	21	9	51.7511	1.0	70872	9008	.20432501	-.33345764	0.92035715	170	161	.6	.3
1964	11	10	15	3	57.5990	1.0	70873	9005	.24944871	.44559113	0.85978130	210	132	.6	.4
1964	11	10	15	3	57.5990	1.0	70873	9006	-.55944123	.05351319	0.82714077	180	46	.6	.8
1964	11	12	20	13	15.5013	1.0	70874	9004	.02920345	.66611927	0.74527329	200	52	.8	1.0
1964	11	12	20	13	15.5013	1.0	70874	9008	.33684915	-.14214462	0.93076719	200	138	.4	.8
1964	11	13	15	48	39.4927	1.0	70875	9005	.46082745	.45153107	0.76404041	190	132	1.1	.8
1964	11	13	15	48	39.4927	1.0	70875	9006	-.35485513	.12623442	0.92635992	190	42	.8	.7
1964	11	13	21	23	43.7152	1.0	70876	9004	.21653118	.43479602	0.87410907	220	55	.8	.4
1964	11	13	21	23	43.7152	1.0	70876	9008	.43876122	-.40979612	0.79972228	180	135	1.4	.8
1964	11	14	19	46	43.5524	1.0	70886	9006	.59095496	-.21138881	0.77851590	180	134	.4	.8
1964	11	14	19	46	43.5524	1.0	70886	9008	.29902264	-.06649358	0.95192650	200	134	.9	1.0
1964	11	22	3	28	51.2862	1.0	70887	9009	-.30934293	-.69810141	-.64572546	210	86	1.3	1.0
1964	11	22	3	28	51.2862	1.0	70887	9011	-.33784703	-.92112653	0.19335279	220	88	.5	.7

Table 2 (Cont.)

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DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1964 11 23	1 55 55.6743	1.0	70888	9009	.47233245	-.74916753	-.46438138	270	96	.6	.8
1964 11 23	1 55 55.6743	1.0	70888	9011	.38483510	-.78600006	0.48384486	190	96	1.1	.3
1964 11 24	0 17 7.6123	1.0	70905	9007	.98689896	-.13686599	0.08542917	220	100	.4	.3
1964 11 24	0 17 7.6123	1.0	70905	9009	.88965015	-.12835928	-.43823111	200	101	1.0	1.0
1964 11 24	0 17 31.6123	1.0	70906	9007	.98382404	-.14095197	0.11055677	220	100	.4	.3
1964 11 24	0 17 31.6123	1.0	70906	9009	.89892095	-.13405652	-.41709708	210	100	.7	.7
1964 11 24	0 17 31.6123	1.0	70906	9011	.88684029	-.28306985	0.36522015	190	100	1.0	.9
1964 11 24	0 17 55.4082	1.0	70907	9007	.98019471	-.14468093	0.13522485	220	99	.5	.4
1964 11 24	0 17 55.4082	1.0	70907	9011	.87811227	-.28404305	0.38501739	190	99	.9	.9
1964 11 25	1 25 23.2268	1.0	70889	9009	.53863489	-.51304291	-.66832584	220	100	.5	.4
1964 11 25	1 25 23.2268	1.0	70889	9011	.59220266	-.76294075	0.25926323	240	98	.6	.6
1964 11 25	1 28 51.2273	1.0	70890	9009	.61018668	-.63542244	-.47319186	260	97	.7	.6
1964 11 25	1 28 51.2273	1.0	70890	9011	.52220647	-.71713816	0.46153360	200	97	1.2	1.8
1964 11 26	2 38 59.6343	1.0	70897	9007	.01674749	-.98252344	0.18538396	290	94	1.1	1.2
1964 11 26	2 38 59.6343	1.0	70897	9011	-.04834803	-.90528706	0.42204005	190	93	1.3	.7
1964 11 26	3 5 33.4642	1.0	70900	9001	.44330261	-.36809493	0.81730589	220	62	.6	.3
1964 11 26	3 5 33.4642	1.0	70900	9010	-.02286697	-.30019238	0.95360455	210	102	.7	.9
1964 11 26	3 5 33.4642	1.0	70900	9114	.42441826	-.73731005	0.52558827	240	76	1.9	1.0
1964 11 26	14 16 8.4404	1.0	70877	9005	.28350449	.65349631	0.70183173	220	121	.8	.7
1964 11 26	14 16 8.4404	1.0	70877	9006	-.57843609	.26453667	0.77164243	200	61	.4	.6
1964 11 26	14 19 23.5663	1.0	70878	9005	.32613162	.49053679	0.80809147	200	130	.6	.5
1964 11 26	14 19 23.5663	1.0	70878	9006	-.49772502	.12167824	0.85875736	190	48	.6	.5
1964 11 27	1 2 35.3529	1.0	70891	9009	.73574370	-.53268371	-.41824547	250	98	.9	.7
1964 11 27	1 2 35.3529	1.0	70891	9011	.62576206	-.61767259	0.47634275	190	98	.7	.8
1964 11 28	2 8 54.5223	1.0	70898	9007	.23612979	-.96625942	-.10288564	340	94	.6	.3
1964 11 28	2 8 54.5223	1.0	70898	9011	.11779713	-.96188607	0.24677728	240	92	1.0	.3
1964 11 28	2 12 19.6096	1.0	70893	9009	.12145332	-.85752393	-.49990179	260	94	.6	.3
1964 11 28	2 12 19.6096	1.0	70893	9011	.09757953	-.89274321	0.43987248	190	94	.6	.5
1964 11 28	13 48 22.6325	1.0	70879	9005	.17255540	.69711321	0.69588635	230	117	1.0	.6
1964 11 28	13 48 22.6325	1.0	70879	9006	-.66705144	.25726259	0.69918405	200	63	.5	.8
1964 11 29	9 4 55.5598	1.0	70895	9012	-.90713485	.38940739	-.15958775	240	97	1.0	.9
1964 11 29	9 4 55.5598	1.0	70895	9117	-.97956458	.17557928	-.09810785	290	96	1.5	.8
1964 11 29	20 35 27.4505	1.0	70880	9004	.46309533	.39337530	0.79422830	250	72	.5	.5
1964 11 29	20 35 27.4505	1.0	70880	9008	.59051632	-.45730093	0.66495589	180	124	.6	.4
1964 11 29	20 39 11.4467	1.0	70881	9004	.24611746	.32343587	0.91368235	220	58	.5	.3
1964 11 29	20 39 11.4467	1.0	70881	9008	.43095093	-.47288827	0.76854276	170	134	1.2	.3
1964 11 30	10 30 51.5674	1.0	70896	9005	-.80014104	-.11977726	0.58773100	250	77	1.0	1.3
1964 11 30	10 30 51.5674	1.0	70896	9117	-.28785476	-.60777790	0.74009841	180	120	.3	.4
1964 11 30	13 17 55.4229	1.0	70882	9005	-.02241025	.83976191	0.54249213	250	109	1.8	.3
1964 11 30	13 17 55.4229	1.0	70882	9006	-.80070929	.31382207	0.51027477	190	72	.3	1.3
1964 11 30	13 20 51.4261	1.0	70883	9005	.05063120	.71476693	0.69752757	240	114	.7	1.2
1964 11 30	13 20 51.4261	1.0	70883	9006	-.73766762	.22746517	0.63569338	190	65	.4	.4
1964 11 30	13 24 47.4281	1.0	70884	9005	.14590800	.51416100	0.84519188	220	124	1.2	1.2
1964 11 30	13 24 47.4281	1.0	70884	9006	-.63583133	.09270208	0.76624072	180	53	.7	.3
1964 12 1	0 31 31.4360	1.0	70927	9004	.00393732	-.86662690	0.49894119	190	117	.7	1.1
1964 12 1	0 31 31.4360	1.0	70927	9009	.45273268	-.05169374	0.89014655	170	64	.4	.4
1964 12 1	0 34 11.4285	1.0	70928	9004	-.06497821	-.79277033	0.60604706	190	122	.5	.6
1964 12 1	0 34 11.4285	1.0	70928	9010	.61037734	-.01402580	0.79198660	190	59	1.3	.7
1964 12 1	0 39 39.4467	1.0	70929	9004	-.21159508	-.60021656	0.77134143	180	136	1.2	1.0
1964 12 1	0 39 39.4467	1.0	70929	9010	.40458976	.15387021	0.90146053	170	32	1.5	.4
1964 12 1	2 51 51.2540	1.0	70936	9009	-.30736682	-.69041495	-.65486856	210	86	.6	.8
1964 12 1	2 51 51.2540	1.0	70936	9011	-.34135004	-.92484516	0.16775452	220	87	.4	.3
1964 12 1	2 55 27.0503	1.0	70937	9009	-.35311031	-.81083787	-.46674946	230	90	.4	.5
1964 12 1	2 55 27.0503	1.0	70937	9011	-.31962927	-.87373576	0.36663736	180	91	.9	.6
1964 12 1	3 2 35.4640	1.0	70908	9001	.29243702	-.89390260	-.33973332	200	94	1.0	.6
1964 12 1	3 2 35.4640	1.0	70908	9009	-.43042191	-.90219632	0.02790662	260	97	.5	.6
1964 12 1	5 51 47.1533	1.0	70915	9001	-.87811848	-.41307060	-.24141378	200	98	1.1	.8
1964 12 1	5 51 47.1533	1.0	70915	9012	-.24309010	-.96859270	-.05230091	230	91	1.0	.3
1964 12 1	5 55 11.1544	1.0	70916	9001	-.91855798	-.39321030	-.04045859	220	101	.6	.4
1964 12 1	5 55 11.1544	1.0	70916	9012	-.23675126	-.95496149	0.17887815	240	88	1.0	.4

Table 2 (Cont.)

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DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1964 12 1	6 5 43.1528	1.0	70917	9001	-.79269600	-.15233387	0.59027743	230	113	.5	.5
1964 12 1	6 5 43.1528	1.0	70917	9012	-.05853936	-.63617065	0.76932441	210	70	.7	.4
1964 12 1	8 40 59.4413	1.0	70947	9012	-.95949833	.27822505	0.04420154	260	99	1.1	.8
1964 12 1	8 40 59.4413	1.0	70947	9117	-.98819920	.01050796	0.15281336	310	96	1.4	.4
1964 12 2	9 49 19.4943	1.0	70949	9012	-.70223359	.70656118	-.08740300	190	98	.5	1.2
1964 12 2	9 49 19.4943	1.0	70949	9117	-.77302986	.63370902	-.02894328	240	98	1.4	.7
1964 12 2	9 52 43.4994	1.0	70950	9012	-.67772483	.72813194	0.10253259	200	102	.5	.6
1964 12 2	9 52 43.4994	1.0	70950	9117	-.73206539	.64896122	0.20719459	240	101	1.5	.6
1964 12 4	6 44 43.4635	1.0	70951	9012	-.51154148	-.56897100	0.64389232	270	87	.7	.8
1964 12 4	6 44 43.4635	1.0	70951	9117	-.32806246	-.71589427	0.61633629	220	80	.4	1.5
1964 12 4	6 46 43.5222	1.0	70919	9001	-.92714593	.06567137	0.36890066	190	111	.8	.3
1964 12 4	6 46 43.5222	1.0	70919	9012	-.43478756	-.49673193	0.75114391	250	85	.7	.3
1964 12 4	6 49 55.5208	1.0	70920	9001	-.84769630	.12865552	0.51464429	190	116	.5	.5
1964 12 4	6 49 55.5208	1.0	70920	9012	-.30135444	-.37751527	0.87559564	220	81	1.2	.6
1964 12 4	9 26 11.3479	1.0	70952	9012	-.75043662	.64840158	0.12814160	210	102	.9	.6
1964 12 4	9 26 11.3479	1.0	70952	9117	-.81172022	.53066743	0.24393106	260	100	1.4	.7
1964 12 4	9 32 19.3497	1.0	70962	9005	-.91426530	-.32468117	0.24228310	210	81	.8	1.0
1964 12 4	9 32 19.3497	1.0	70962	9012	-.60530866	.64522015	0.46614631	200	110	1.2	1.1
1964 12 4	9 32 43.2868	1.0	70963	9005	-.90709942	-.32619866	0.26601706	210	81	.9	1.1
1964 12 4	9 32 43.2868	1.0	70963	9012	-.59237605	.64299588	0.48543477	200	110	.8	.7
1964 12 4	9 32 43.2868	1.0	70963	9117	-.58307975	.49920362	0.64094754	220	108	1.1	.3
1964 12 4	9 33 7.2095	1.0	70964	9012	-.57913378	.64055087	0.50428033	200	111	1.2	1.1
1964 12 4	9 33 7.2095	1.0	70964	9117	-.56561734	.49508883	0.65951806	220	109	1.7	.3
1964 12 4	9 35 43.2111	1.0	70934	9005	-.83168339	-.33733218	0.44103258	220	77	.6	1.3
1964 12 4	9 35 43.2111	1.0	70934	9012	-.48603328	.61966191	0.61627167	190	115	1.1	.8
1964 12 5	7 40 47.5492	1.0	70953	9012	-.89364252	-.10860200	-.43544076	240	95	1.0	1.0
1964 12 5	7 40 47.5492	1.0	70953	9117	-.83849329	-.39470509	-.37568191	260	96	1.4	.7
1964 12 5	7 44 23.5423	1.0	70954	9012	-.97850922	-.09125894	-.18490947	270	96	.6	.5
1964 12 5	7 44 23.5423	1.0	70954	9117	-.91173693	-.39868563	-.09892188	290	95	.4	.7
1964 12 5	7 47 55.5539	1.0	70955	9012	-.99330947	-.05787640	0.09993307	290	98	.6	.5
1964 12 5	7 47 55.5539	1.0	70955	9117	-.90544048	-.37190638	0.20460494	300	94	1.5	.4
1964 12 5	8 4 19.5142	1.0	70957	9012	-.29061022	.14103072	0.94639106	180	123	1.1	.9
1964 12 5	8 4 19.5142	1.0	70957	9117	-.19010492	-.07760833	0.07869151	170	85	.7	.6
1964 12 5	19 10 3.8713	1.0	70968	9004	.48577167	.75382239	0.44246773	220	76	1.0	.8
1964 12 5	19 10 3.8713	1.0	70968	9115	.83187224	.54020384	0.12715497	190	89	1.0	1.0
1964 12 5	19 10 27.6432	1.0	70969	9004	.47444595	.74780576	0.46442178	220	75	.8	.7
1964 12 5	19 10 27.6432	1.0	70969	9008	.79644860	-.14835273	0.58622615	220	113	.8	.6
1964 12 5	19 10 27.6432	1.0	70969	9115	.82907773	.53876599	0.14953704	200	89	.7	.7
1964 12 5	19 10 51.2079	1.0	70970	9004	.46272066	.74146330	0.48592362	220	75	1.0	.9
1964 12 5	19 10 51.2079	1.0	70970	9008	.78093199	-.15556485	0.60493372	220	114	1.1	.8
1964 12 5	19 13 .1129	1.0	70972	9004	.39050374	.70068397	0.59711708	220	71	.7	.7
1964 12 5	19 13 .1129	1.0	70972	9008	.68967422	-.19432574	0.69755787	210	118	1.0	.7
1964 12 5	19 13 .1129	1.0	70972	9115	.79769803	.52376506	0.29891138	220	88	1.5	.7
1964 12 5	19 13 27.7492	1.0	70973	9004	.37339507	.69068841	0.61929447	220	70	.8	.8
1964 12 5	19 13 27.7492	1.0	70973	9008	.66894950	-.20242076	0.71521493	210	119	1.1	.8
1964 12 5	19 15 55.7661	1.0	70974	9004	.27383178	.63093337	0.72590581	220	63	1.0	1.4
1964 12 5	19 15 55.7661	1.0	70974	9115	.72743768	.49187194	0.47843120	240	85	1.2	1.4
1964 12 5	19 16 18.9043	1.0	70975	9004	.25727517	.62080327	0.74054898	220	62	.6	.9
1964 12 5	19 16 18.9043	1.0	70975	9008	.53497590	-.25005530	0.80701495	200	127	.5	.5
1964 12 5	19 16 18.9043	1.0	70975	9115	.71509420	.48634255	0.50210677	240	85	.9	1.0
1964 12 5	19 16 42.5705	1.0	70976	9004	.24012636	.61026244	0.75492985	220	61	.8	1.3
1964 12 5	19 16 42.5705	1.0	70976	9008	.51595966	-.25625369	0.81738588	200	128	.7	.7
1964 12 5	19 18 31.9068	1.0	70977	9004	.15882846	.55971425	0.81332249	210	54	.8	1.4
1964 12 5	19 18 31.9068	1.0	70977	9115	.62934730	.44815931	0.63488204	260	83	1.1	.5
1964 12 5	19 18 52.3692	1.0	70978	9004	.14334083	.54999989	0.82277186	210	52	.8	1.4
1964 12 5	19 18 52.3692	1.0	70978	9008	.41116564	-.28838674	0.86474037	180	137	.4	.8
1964 12 5	19 18 52.3692	1.0	70978	9115	.61392200	.4131788	0.65447560	260	82	1.0	.4
1964 12 5	19 19 11.9125	1.0	70979	9004	.12849994	.54068905	0.83135018	210	51	.7	1.1
1964 12 5	19 19 11.9125	1.0	70979	9115	.59863287	.43453635	0.67291667	260	82	1.2	.5
1964 12 5	22 0 51.7124	1.0	70930	9004	.55047445	-.40857834	0.72803957	270	106	.8	.8

Table 2 (Cont.)

6303004

DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1964 12 5	22 0 51.7124	1.0	70930	9115	.79824207	-.53457612	0.27755715	200	105	.5	.3
1964 12 6	0 22 43.2761	1.0	70938	9009	.66754810	-.45907612	-.50619847	220	100	.5	.5
1964 12 6	0 22 43.2761	1.0	70938	9011	.68831112	-.65482381	0.31214352	220	99	.6	.4
1964 12 6	6 19 20.5868	1.0	70965	9001	-.93098057	-.04117959	0.36273878	200	110	1.0	.5
1964 12 6	6 19 20.5868	1.0	70965	9012	-.35701689	-.62333993	0.69569122	250	82	.4	1.3
1964 12 6	6 19 32.5865	1.0	70966	9001	-.92708022	-.03693626	0.37303884	200	110	1.0	.5
1964 12 6	6 19 32.5865	1.0	70966	9012	-.35040592	-.61565806	0.70581927	250	82	.4	1.4
1964 12 6	6 19 32.5865	1.0	70966	9117	-.19754443	-.72954197	0.65478600	200	75	1.5	.5
1964 12 6	6 19 52.0706	1.0	70967	9001	-.92048165	-.02996044	0.38963560	200	111	.9	.4
1964 12 6	6 19 52.0706	1.0	70967	9117	-.18947225	-.71897010	0.66871688	200	74	1.6	.5
1964 12 6	9 7 28.4423	1.0	70958	9012	-.59051873	.54903935	0.59147563	210	112	.8	.3
1964 12 6	9 7 28.4423	1.0	70958	9117	-.55850465	.36768924	0.74355711	220	109	.6	.6
1964 12 6	23 6 19.4165	1.0	70931	9004	.40628782	-.85110272	0.33249717	220	108	.5	.5
1964 12 6	23 6 19.4165	1.0	70931	9009	.76298063	.08760618	0.64045743	180	74	.8	.7
1964 12 7	1 31 39.5216	1.0	70939	9009	.11155117	-.70640658	-.69896071	220	93	.8	.5
1964 12 7	1 31 39.5216	1.0	70939	9011	.11694980	-.96920311	0.21672119	240	92	.7	.4
1964 12 7	4 43 34.3532	1.0	70921	9001	-.61688670	-.52431358	0.58698047	270	105	.8	.3
1964 12 7	4 43 34.3532	1.0	70921	9012	.17127584	-.79034114	0.58823930	190	72	1.5	.3
1964 12 8	5 52 51.4296	1.0	70922	9001	-.90479248	-.13593619	0.40357393	220	110	.8	.6
1964 12 8	5 52 51.4296	1.0	70922	9012	-.24244023	-.69334559	0.67859754	230	79	1.0	.4
1964 12 8	5 55 55.4323	1.0	70923	9001	-.82758743	-.05537130	0.55859920	210	114	.8	1.0
1964 12 8	5 55 55.4323	1.0	70923	9012	-.15358356	-.56916864	0.80774943	210	73	.9	.3
1964 12 8	8 44 51.5104	1.0	70959	9012	-.44353284	.43171025	0.78543293	190	120	1.3	.5
1964 12 8	8 44 51.5104	1.0	70959	9117	-.37133490	.22623448	0.90051560	190	115	1.3	.6
1964 12 11	1 2 58.9794	1.0	70980	9001	.75220557	-.45694604	0.47474951	200	73	.6	.3
1964 12 11	1 2 58.9794	1.0	70980	9010	.45315026	-.50704929	0.73318201	250	82	1.1	.3
1964 12 11	1 3 18.9788	1.0	70981	9001	.74759558	-.44743293	0.49082036	200	72	.4	.3
1964 12 11	1 3 18.9788	1.0	70981	9009	.14799790	-.37814870	0.91383816	190	94	.7	1.1
1964 12 11	1 3 18.9788	1.0	70981	9010	.44376289	-.49130174	0.74946454	250	82	1.3	.3
1964 12 11	1 3 38.9318	1.0	70982	9009	.14067556	-.36313790	0.92105442	190	94	.9	1.5
1964 12 11	1 3 38.9318	1.0	70982	9010	.43431326	-.47537084	0.76511081	250	81	1.8	.4
1964 12 11	6 37 3.0661	1.0	70924	9001	-.92135640	.15649529	0.35582525	180	112	1.0	.6
1964 12 11	6 37 3.0661	1.0	70924	9012	-.52003844	-.36054756	0.77431614	250	90	1.0	.9
1964 12 11	6 39 58.9137	1.0	70909	9001	-.85202559	.20549356	0.48148187	180	116	.5	.3
1964 12 11	6 39 58.9137	1.0	70909	9117	-.24281344	-.46115773	0.85344899	200	71	1.3	.3
1964 12 11	23 20 27.4236	1.0	70932	9004	.26115188	-.95374749	0.14888056	190	106	.7	.4
1964 12 11	23 20 27.4236	1.0	70932	9009	.79121814	-.14658445	0.59370603	210	81	1.0	.7
1964 12 11	23 33 27.1149	1.0	70933	9004	-.07689270	-.68278369	0.72656310	190	128	1.2	.5
1964 12 11	23 33 27.1149	10.0	70933	9115	.23689222	-.86174843	0.44863317	180	115	.3	1.2
1964 12 13	0 24 27.4548	1.0	70941	9007	.46918617	-.52941174	0.70681507	170	93	.3	1.9
1964 12 13	0 24 27.4548	1.0	70941	9010	.74279475	-.66538028	-.07433063	230	91	.3	.9
1964 12 15	5 43 51.5340	1.0	70911	9001	-.90712941	-.01550805	0.42056597	200	112	.6	1.6
1964 12 15	5 43 51.5340	1.0	70911	9117	-.18248619	-.69493274	0.69553381	200	73	1.1	.5
1964 12 15	5 47 35.5390	1.0	70912	9001	-.80490249	.07119612	0.58912061	200	118	.7	1.0
1964 12 15	5 47 35.5390	1.0	70912	9117	-.07969421	-.56750505	0.81950403	180	63	.7	.7
1964 12 18	6 31 39.5587	1.0	70961	9012	-.36809368	-.10610477	0.92371469	210	98	1.9	.9
1964 12 18	6 31 39.5587	1.0	70961	9117	-.24288841	-.31993812	0.91577553	190	71	1.2	.3
1964 12 21	1 17 43.4796	1.0	70944	9009	-.24144589	-.92406699	-.29631753	250	94	1.0	1.0
1964 12 21	1 17 43.4796	1.0	70944	9010	.01413006	-.84584383	-.53324343	200	96	1.3	1.3
1964 12 21	1 22 51.5340	1.0	70983	9009	-.28908439	-.95383445	0.08142516	260	97	.7	.4
1964 12 21	1 22 51.5340	1.0	70983	9010	-.02073995	-.97111007	-.23772902	240	97	.8	1.3
1964 12 21	1 23 3.5340	1.0	70984	9001	.40457152	-.87317190	-.27183215	190	93	.6	.4
1964 12 21	1 23 3.5340	1.0	70984	9009	-.29061469	-.95196969	0.09641997	260	98	.5	.3
1964 12 21	1 23 3.5340	1.0	70984	9010	-.02240405	-.97427511	-.22424555	240	97	.5	.7
1964 12 21	1 23 27.4654	1.0	70985	9001	.40603134	-.87890212	-.25033900	190	93	.6	.4
1964 12 21	1 23 27.4654	1.0	70985	9010	-.02577476	-.98007424	-.19695214	240	97	.5	.7
1964 12 21	1 28 27.2851	1.0	70914	9001	.41654332	-.90765385	0.05153786	230	88	.4	.5
1964 12 21	1 28 27.2851	1.0	70914	9010	-.07240487	-.98118191	0.17899607	280	98	1.1	1.4
1964 12 22	16 46 59.8505	1.0	70935	9006	.84039593	.05861437	0.53879406	200	115	.8	.8
1964 12 22	16 46 59.8505	1.0	70935	9115	.50492828	.84952776	0.15280712	180	84	1.0	.4

Table 2 (Cont.)

6303004

DATE	TIME	SIGMA	OBS NO	STA NO	L	M	N	OMEGA	PHI	A	B
Y M D	H M S	MSEC								SEC	SEC
1964	12 24	2 15 27.5212	1.0	70986	9001	-.06212823	-.95015601	0.30552191	270	92	.6 .5
1964	12 24	2 15 27.5212	1.0	70986	9010	-.55146819	-.74718829	0.37093462	240	105	.5 .4
1964	12 24	2 15 47.4313	1.0	70987	9001	-.06234586	-.94168192	0.33067833	280	92	.6 .5
1964	12 24	2 15 47.4313	1.0	70987	9009	-.63207231	-.54600565	0.54987492	180	110	.7 .8
1964	12 24	2 15 47.4313	1.0	70987	9010	-.55120103	-.73664240	0.39183593	240	105	.4 .4
1964	12 24	2 15 59.4611	1.0	70988	9001	-.06242712	-.93621623	0.34583526	280	92	.7 .6
1964	12 24	2 15 59.4611	1.0	70988	9009	-.63025879	-.53955473	0.55826029	180	110	.8 .9
1964	12 29	5 29 55.6430	1.0	70925	9001	-.76127514	.26253544	0.59290413	170	122	.4 .9
1964	12 29	5 29 55.6430	1.0	70925	9012	-.24986743	-.16698812	0.95377211	190	87	.9 .4
1964	12 30	0 36 55.5109	1.0	70945	9009	-.20435842	-.81519136	-.54194159	220	91	1.0 1.3
1964	12 30	0 36 55.5109	1.0	70945	9011	-.19912003	-.93185809	0.30330136	190	92	.4 .7
1965	2 2	16 38 11.7971	1.0	71152	9005	-.67157314	-.59478051	0.44184348	250	244	1.3 1.1
1965	2 2	16 38 11.7971	1.0	71152	9117	-.32497887	.27900522	0.90362870	250	293	.9 .5
1965	2 2	16 40 59.7978	1.0	71153	9005	-.77451665	-.57412000	0.26553754	250	249	1.3 1.0
1965	2 2	16 40 59.7978	1.0	71153	9117	-.50969000	.33079352	0.79422399	300	284	.8 .3
1965	2 25	15 40 43.9089	1.0	71156	9005	-.78928271	-.42331815	0.44478596	310	246	.6 .3
1965	2 25	15 40 43.9089	1.0	71156	9012	-.36260757	-.69588379	0.61988830	240	296	.7 .5
1965	2 27	15 12 19.6355	1.0	71158	9005	-.67976130	-.53232727	0.50453172	280	242	.8 .4
1965	2 27	15 12 19.6355	1.0	71158	9012	-.33080794	.59871406	0.72945705	250	301	.9 .7
1965	2 27	15 16 23.6358	1.0	71159	9005	-.84638006	-.48376640	0.22273496	270	250	.8 1.1
1965	2 27	15 16 23.6358	1.0	71159	9012	-.53310813	.67426304	0.51104312	270	288	.7 1.0
1965	3 7	10 36 47.8679	1.0	71161	9001	-.70638260	-.20821286	0.67651388	350	291	.7 .9
1965	3 7	10 36 47.8679	1.0	71161	9114	-.75090983	-.62697812	0.20744364	310	278	1.4 .3
1965	3 22	5 47 14.8746	1.0	71181	9001	-.78290638	-.26633529	0.56224827	260	237	1.3 .7
1965	3 22	5 47 14.8746	1.0	71181	9114	.75619553	-.61379402	0.22677130	250	247	1.1 .7
1965	3 23	6 56 47.7833	1.0	71163	9001	.46314374	-.42246532	0.77911548	330	238	.5 .3
1965	3 23	6 56 47.7833	1.0	71163	9010	-.17154862	-.32083130	0.93147107	320	292	.6 .3
1965	3 23	6 57 7.7670	1.0	71164	9001	.46717347	-.44947255	0.76139568	340	239	.6 .3
1965	3 23	6 57 7.7670	1.0	71164	9010	-.17420165	-.34978839	0.92049001	320	290	.5 .3
1965	3 23	6 57 7.7670	1.0	71164	9114	.39287158	-.86752389	0.30504790	320	252	1.3 1.2
1965	3 23	6 57 27.6791	1.0	71165	9010	-.17691944	-.37897306	0.90833856	330	288	.6 .3
1965	3 23	6 57 27.6791	1.0	71165	9114	.38788487	-.87905137	0.27715342	310	253	1.1 1.1
1965	3 24	8 4 47.8574	1.0	71166	9001	-.04427264	-.21782083	0.97498411	320	265	.6 .4
1965	3 24	8 4 47.8574	1.0	71166	9010	-.53462884	-.07811778	0.84146873	260	317	1.3 .4
1965	3 24	8 5 7.7704	1.0	71167	9001	-.05303188	-.24697340	0.96757003	330	265	.6 .4
1965	3 24	8 5 7.7704	1.0	71167	9010	-.54596543	-.09807878	0.83204706	260	315	1.2 .4
1965	3 24	8 5 7.7704	1.0	71167	9114	-.14519501	-.81206000	0.56522293	420	264	1.3 1.1
1965	3 24	8 5 19.7274	1.0	71168	9001	-.05840643	-.26471776	0.96255556	330	266	.7 .6
1965	3 24	8 5 19.7274	1.0	71168	9114	-.14986910	-.82468295	0.54537811	410	264	1.3 1.2
1965	3 25	3 24 48.1021	1.0	71182	9114	.35353631	.49298048	0.79497316	250	185	1.0 .6
1965	3 25	3 24 48.1021	1.0	71182	9115	-.50872273	-.28768765	0.81144131	260	17	.7 1.3
1965	3 25	3 27 28.2073	1.0	71183	9114	.51396000	.38569990	0.76621192	260	202	1.4 .5
1965	3 25	3 27 28.2073	1.0	71183	9115	-.35996083	-.43830858	0.82359808	290	355	.7 .8
1965	3 25	3 30 10.2320	1.0	71184	9114	.66348613	.26592143	0.69933679	250	216	1.6 .3
1965	3 25	3 30 10.2320	1.0	71184	9115	-.18342995	-.59598067	0.78176755	310	332	1.6 1.0
1965	3 25	6 28 55.9231	1.0	71170	9010	-.02713056	-.28157877	0.95915449	310	278	.8 .3
1965	3 25	6 28 55.9231	1.0	71170	9114	.51785320	-.78288901	0.34483744	310	249	1.2 .7
1965	3 25	6 29 18.0112	1.0	71171	9010	-.02528861	-.31377754	0.94915970	320	277	.8 .3
1965	3 25	6 29 18.0112	1.0	71171	9114	.51363138	-.79795822	0.31534978	310	250	1.6 .8
1965	3 29	8 20 36.1091	1.0	71172	9001	-.31693489	-.18277639	0.93066915	340	296	.5 .5
1965	3 29	8 20 36.1091	1.0	71172	9114	-.44556071	-.72867225	0.52010807	410	274	1.4 .3
1965	3 29	8 20 56.0764	1.0	71173	9001	-.33343960	-.20903599	0.91930517	350	294	.5 .6
1965	3 29	8 20 56.0764	1.0	71173	9010	-.68963706	-.06221038	0.72147806	250	309	1.0 .8
1965	3 29	8 20 56.0764	1.0	71173	9114	-.45374230	-.74655739	0.48659016	400	273	1.0 .3
1965	3 29	8 21 19.9129	1.0	71174	9010	-.70380765	-.08166254	0.70568125	250	308	1.2 1.0
1965	3 29	8 21 19.9129	1.0	71174	9114	-.46257250	-.76593269	0.44651293	390	273	1.1 .3
1965	3 29	8 22 52.1119	1.0	71175	9001	-.43082244	-.36447379	0.82556095	390	285	.7 .5
1965	3 29	8 22 52.1119	1.0	71175	9114	-.48788027	-.82182027	0.29425208	350	272	1.2 .8
1965	3 29	8 23 16.0756	1.0	71176	9001	-.45062358	-.39631815	0.79991894	390	284	.5 .4
1965	3 29	8 23 16.0756	1.0	71176	9010	-.76834720	-.17371960	0.61600656	260	300	.8 .4

Table 2 (Cont.)

6303004

DATE	TIME			SIGMA	OBS NO	STA NO	L	M	N	OMEGA	PHI	A	B		
Y	M	D	H	M	S	MSEC						SEC	SEC		
1965	3	29	8	23	16.0756	1.0	71176	9114	-.49239667	-.83184854	0.25607328	340	272	.8	.5
1965	3	29	8	23	39.9189	1.0	71177	9010	-.78040946	-.19180978	0.59512191	260	299	1.3	.7
1965	3	29	8	23	39.9189	1.0	71177	9114	-.49614119	-.84020043	0.21887704	330	271	1.3	.8
1965	5	6	7	47	39.8110	1.0	71185	9001	-.89090822	.15364546	0.42740568	250	295	1.4	.8
1965	5	6	7	47	39.8110	1.0	71185	9117	-.08081559	-.63206587	0.77068903	250	237	.7	.8
1965	5	8	7	17	59.8680	1.0	71186	9001	-.86840177	.06558685	0.49150456	270	295	1.7	1.1
1965	5	8	7	17	59.8680	1.0	71186	9117	.01647502	-.67635680	0.73638988	230	235	1.5	.5
1965	5	8	7	23	23.8676	1.0	71187	9001	-.98834031	-.06248449	0.13884927	230	284	.6	.5
1965	5	8	7	23	23.8676	1.0	71187	9117	-.18347119	-.86825511	0.46094619	260	249	.8	.4
1965	5	8	7	25	43.8789	1.0	71188	9001	-.99552922	-.09409111	-.00827255	210	280	1.5	.3
1965	5	8	7	25	43.8789	1.0	71188	9117	-.25635748	-.91730535	0.30468301	270	253	1.1	.9
1965	6	2	2	46	36.0756	1.0	71239	9009	-.64585312	-.76342564	0.00741887	220	272	.4	1.0
1965	6	2	2	46	36.0756	1.0	71239	9010	-.44470738	-.84946786	-.28397130	210	269	.5	1.3
1965	6	20	1	12	35.9180	1.0	71240	9007	-.43751401	-.84241445	0.31451452	210	266	.7	.6
1965	6	20	1	12	35.9180	1.0	71240	9009	-.49113703	-.83895458	-.23439204	200	267	.7	.7
1965	6	20	1	16	27.9113	1.0	71241	9007	-.48013967	-.87393241	0.07555157	220	263	1.0	.8
1965	6	20	1	16	27.9113	1.0	71241	9009	-.47180400	-.76618031	-.43631264	180	262	.5	.5
1965	6	20	1	19	15.9101	1.0	71242	9007	-.50131075	-.85882168	-.10541752	230	261	1.0	.6
1965	6	20	1	19	15.9101	1.0	71242	9009	-.45415715	-.69649806	-.55554634	160	259	.3	.4
1965	6	21	7	43	12.2638	1.0	71255	9012	-.55630610	.72441746	0.40711530	210	286	1.0	.4
1965	6	21	7	43	12.2638	1.0	71255	9117	-.55601927	.61001728	0.56455424	250	284	1.4	.3
1965	6	21	7	49	.2747	1.0	71256	9012	-.66101894	.74493896	0.09011053	190	277	.6	.7
1965	6	21	7	49	.2747	1.0	71256	9117	-.71372457	.67387494	0.19102304	240	275	.6	.8
1965	6	22	0	46	12.0585	1.0	71243	9007	-.31482786	-.93947246	0.13518475	240	264	.6	.6
1965	6	22	0	46	12.0585	1.0	71243	9009	-.33643260	-.84064711	-.42441200	190	263	.5	.4
1965	6	22	0	48	48.0572	1.0	71244	9007	-.33898643	-.93976735	-.04388084	240	262	.7	.3
1965	6	22	0	48	48.0572	1.0	71244	9009	-.32917811	-.77080264	-.54544025	180	260	.8	.5
1965	6	22	0	51	16.0496	1.0	71245	9007	-.35665374	-.90952356	-.21345961	240	260	.6	.6
1965	6	22	0	51	16.0496	1.0	71245	9009	-.32134042	-.69725330	-.64076374	160	258	.7	.7
1965	6	24	0	17	7.9373	1.0	71246	9007	-.13492759	-.98419942	0.11465621	250	264	.3	.5
1965	6	24	0	17	7.9373	1.0	71246	9009	-.17537488	-.86581334	-.46862662	200	263	.6	.7
1965	6	24	0	19	15.9363	1.0	71247	9007	-.15474641	-.98710315	-.04099902	260	262	.9	.5
1965	6	24	0	19	15.9363	1.0	71247	9009	-.17914437	-.80246115	-.56917783	180	261	.6	.7
1965	6	24	0	22	7.9340	1.0	71248	9007	-.18001999	-.95141803	-.24979299	260	261	.4	.4
1965	6	24	0	22	7.9340	1.0	71248	9009	-.18348604	-.71001759	-.67985873	160	258	.7	.7
1965	6	25	23	52	58.1686	1.0	71249	9009	-.03721328	-.70158882	-.71160965	170	260	.6	.7
1965	6	25	23	52	58.1686	1.0	71249	9011	-.04927291	-.99740867	0.05242257	220	261	.6	.5
1965	6	28	7	19	36.0721	1.0	71257	9012	-.39785238	.70498697	0.58711741	200	295	1.0	.7
1965	6	28	7	19	36.0721	1.0	71257	9117	-.35546968	.57084045	0.74012329	220	294	.5	.7
1965	6	28	7	22	28.0681	1.0	71258	9012	-.49259059	.74131837	0.45585259	200	289	.9	.8
1965	6	28	7	22	28.0681	1.0	71258	9117	-.47795226	.63177937	0.61025934	230	287	.5	.5
1965	6	28	7	25	24.0735	1.0	71259	9012	-.56539361	.76522050	0.30784355	190	283	1.0	1.1
1965	6	28	7	25	24.0735	1.0	71259	9117	-.57976917	.68095882	0.44739557	230	282	.7	.3
1965	6	29	0	27	51.9029	1.0	71250	9007	-.39916942	-.91425823	0.06925073	230	263	.3	.7
1965	6	29	0	27	51.9029	1.0	71250	9011	-.37589440	-.87862839	0.29447505	180	262	.5	1.1
1965	6	30	23	56	12.3611	1.0	71251	9007	-.20660366	-.95244350	0.22397836	230	264	.6	.8
1965	6	30	23	56	12.3611	1.0	71251	9009	-.25194263	-.89652456	-.36437429	210	264	1.0	1.3
1965	6	30	23	56	32.4532	1.0	71252	9007	-.20993086	-.95665576	0.20183853	230	264	.4	.5
1965	6	30	23	56	32.4532	1.0	71252	9009	-.25201731	-.88874072	-.38291932	210	264	.7	.8
1965	6	30	23	56	32.4532	1.0	71252	9011	-.21745339	-.89051469	0.39962183	170	264	.8	.7
1965	6	30	23	56	56.1918	1.0	71253	9007	-.21385797	-.96099232	0.17538110	240	264	.5	.6
1965	6	30	23	56	56.1918	1.0	71253	9009	-.25207719	-.87919751	-.40431279	200	263	.7	1.0
1965	6	30	23	59	40.4631	1.0	71254	9007	-.24018885	-.97062190	-.01422827	240	262	.5	.3
1965	6	30	23	59	40.4631	1.0	71254	9011	-.25111750	-.93640632	0.24511876	190	262	1.0	.8
1965	8	5	8	8	44.1980	1.0	71277	9007	.42837037	-.58987981	0.68450028	260	93	1.0	.7
1965	8	5	8	8	44.1980	1.0	71277	9010	.65956622	-.64807068	-.38075818	280	91	.5	.6
1965	8	8	8	47	28.1074	1.0	71278	9007	-.01783864	-.76074626	0.64880422	260	96	.7	.3
1965	8	8	8	47	28.1074	1.0	71278	9010	.21911981	-.85952079	-.46174725	290	94	.9	.3
1965	8	11	9	25	48.1512	1.0	71279	9007	-.44964196	-.73583947	0.50632241	250	95	.7	.8
1965	8	11	9	25	48.1512	1.0	71279	9010	-.26191042	-.82456887	-.50148690	260	95	1.3	.6

Table 2 (Cont.)

6303004

DATE			TIME			SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA PHI	A SEC	B SEC
Y	M	D	H	M	S									
1965	4	3	13	43	24.3072	1.0	71298	9012	-.58036024	.48074302	0.65731890	270 112	1.1	1.0
1965	4	3	13	43	24.3072	1.0	71298	9117	-.51494115	.22707119	0.82660407	280 107	1.1	1.1
1965	4	3	13	45	48.3854	1.0	71299	9012	-.44371252	.45850107	0.7699738	240 119	1.0	.6
1965	4	3	13	45	48.3854	1.0	71299	9117	-.35805769	.21465236	0.90869085	230 114	1.5	.4
1965	4	5	4	48	.2520	1.0	71300	9004	.13423503	-.98469898	0.11112549	230 106	.7	.3
1965	4	5	4	48	.2520	1.0	71300	9009	.75752991	-.10831356	0.64315198	260 78	.3	.4
1965	4	5	4	48	20.3909	1.0	71301	9004	.12769782	-.98297661	0.13269740	230 107	.7	.3
1965	4	5	4	48	20.3909	1.0	71301	9009	.74214425	-.10047140	0.66266689	260 77	.3	.3
1965	4	5	4	48	40.3448	1.0	71302	9009	.72672217	-.09256615	0.68066614	260 76	.3	.4
1965	4	5	4	48	40.3448	1.0	71302	9010	.93057950	-.12874022	0.34270651	260 77	1.8	.3
1965	4	5	4	52	.3475	1.0	71303	9009	.56882224	-.00847754	0.82241680	220 67	.7	.4
1965	4	5	4	52	.3475	1.0	71303	9010	.83051920	-.04975442	0.55476333	250 70	1.8	.5
1965	4	5	4	52	20.3473	1.0	71304	9004	.03293588	-.92600552	0.37607048	230 113	.9	.4
1965	4	5	4	52	20.3473	1.0	71304	9009	.55320614	.00016623	0.83304438	210 65	.6	.4
1965	4	5	4	52	20.3473	1.0	71304	9010	.81815199	-.04068361	0.57356095	250 69	1.7	.4
1965	4	5	4	52	44.3473	1.0	71305	9004	.02200316	-.41662797	0.37913535	230 113	.9	.4
1965	4	5	4	52	44.3473	1.0	71305	9010	.80286906	-.02958758	0.59542073	250 68	1.8	.5
1965	4	5	4	56	28.4882	1.0	71306	9004	-.08775933	-.80056936	0.59277905	230 121	1.2	.7
1965	4	5	4	56	28.4882	1.0	71306	9010	.64373202	.08135974	0.76091371	220 56	1.0	.5
1965	4	5	5	0	36.4878	1.0	71307	9004	-.21348037	-.62840066	0.74802322	210 134	.9	1.2
1965	4	5	5	0	36.4878	1.0	71307	9010	.45891435	.20657913	0.86413117	190 36	.9	.3
1965	4	5	13	11	16.3375	1.0	71308	9012	-.75536917	.34010290	0.56013162	320 105	.6	.8
1965	4	5	13	11	16.3375	1.0	71308	9117	-.68499602	.02615617	0.72807713	330 98	.4	.5
1965	4	5	13	18	16.0775	1.0	71309	9012	-.32842506	.32369083	0.88733377	220 126	.7	.4
1965	4	5	13	18	16.0775	1.0	71309	9117	-.22452384	.07381872	0.97166859	200 112	1.3	.4
1965	4	7	4	23	20.4183	1.0	71310	9004	.11107769	-.88165387	0.45863733	250 114	.8	.6
1965	4	7	4	23	20.4183	1.0	71310	9009	.57458493	.10260763	0.8198758	200 62	1.1	.3

Table 2 (Cont.)

6305301

DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1964 11 15	14 35 47.5134	1.0	71010	9012	-.83664726	-.54720023	-.02435715	570	82	1.0	.7
1964 11 15	14 35 47.5134	1.0	71010	9117	-.47320416	-.87229598	0.12319718	450	78	1.0	1.2
1964 11 15	14 40 23.6939	1.0	71011	9012	-.55997386	-.49839262	0.66184143	510	76	.8	.7
1964 11 15	14 40 23.6939	1.0	71011	9117	-.24724338	-.75315373	0.60961477	360	66	.9	.4
1964 11 16	15 37 37.4198	1.0	71012	9012	-.91994144	.38777481	-.05774570	430	90	.6	.6
1964 11 16	15 37 37.4198	1.0	71012	9117	-.99176387	-.06393892	0.11097856	600	85	1.7	.3
1964 11 25	15 25 59.5442	1.0	71015	9012	-.47425277	.64772679	0.59626698	320	109	1.5	.4
1964 11 25	15 25 59.5442	1.0	71015	9117	-.40280541	.38744108	0.82923893	350	106	.8	.3
1965 6 1	9 23 14.0730	1.0	71225	9001	-.08717494	-.91640094	-.39065310	320	80	1.7	.4
1965 6 1	9 23 14.0730	1.0	71225	9010	-.71454291	-.67032957	-.20021663	300	92	.8	.7
1965 6 1	9 30 15.9731	1.0	71226	9001	.09907808	-.88155797	0.46156157	540	73	1.3	.6
1965 6 1	9 30 15.9731	1.0	71226	9010	-.69696146	-.51506169	0.49895309	400	105	.7	.7
1965 6 1	21 0 29.9237	1.0	71227	9006	-.15316268	.92990562	0.33439009	540	76	1.0	.6
1965 6 1	21 0 29.9237	1.0	71227	9008	-.62566720	.75928996	0.17893941	300	65	.6	.6
1965 6 2	22 1 55.9754	1.0	71228	9006	.62408511	.54400864	0.56086752	510	97	1.8	1.1
1965 6 2	22 1 55.9754	1.0	71228	9008	-.25656886	.83826992	0.48111949	440	63	.7	.5
1965 6 2	22 2 37.9767	1.0	71217	9006	.58639524	.49325241	0.64251835	510	98	1.7	.3
1965 6 2	22 2 37.9767	1.0	71217	9008	-.28436355	.78648205	0.54825483	430	60	1.4	1.2
1965 6 16	7 2 55.9346	1.0	71229	9001	.53690227	-.61581889	0.57663077	510	56	1.5	.8
1965 6 16	7 2 55.9346	1.0	71229	9010	-.42670653	-.45370030	0.78235387	510	108	1.1	.5
1965 6 20	5 9 8.4369	1.0	71232	9009	-.01927945	-.50946107	0.86027770	430	92	.5	.3
1965 6 20	5 9 8.4369	1.0	71232	9010	.55953908	-.74030508	0.37264515	620	72	1.5	.3
1965 6 26	5 16 49.9635	1.0	71234	9009	-.53426228	-.44449850	0.71901662	390	111	.8	.8
1965 6 26	5 16 49.9635	1.0	71234	9010	-.26408485	-.05963126	0.43737088	680	93	1.8	.3
1965 6 26	5 17 37.3573	1.0	71235	9001	.69945498	-.68251723	0.21197396	480	60	.5	1.7
1965 6 26	5 17 37.3573	1.0	71235	9009	-.50837391	-.38013733	0.77269113	370	115	.9	1.0
1965 6 26	5 20 9.2869	1.0	71236	9001	.74233242	-.46056240	0.48664654	480	50	.7	.3
1965 6 26	5 20 9.2869	1.0	71236	9010	-.17459971	-.41427713	0.89324655	610	100	1.0	.9
1965 6 26	18 44 48.1501	1.0	71237	9006	.63434164	.61914716	0.46289035	680	97	1.5	1.5
1965 6 26	18 44 48.1501	1.0	71237	9008	-.39466886	.85522797	0.33588928	510	59	1.7	.4

6403801

DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1964 12 6	4 47 11.6537	1.0	71019	9007	.95348458	-.30134108	0.00779161	260	65	1.5	.5
1964 12 6	4 47 11.6537	1.0	71019	9011	.83200521	-.45819353	0.31277151	240	65	1.0	.8
1964 12 8	4 21 59.1713	1.0	71020	9007	.90585898	-.36025795	-.22278626	240	68	1.1	.3
1964 12 8	4 21 59.1713	1.0	71020	9011	.83734329	-.53905415	0.09097713	240	67	.7	.5

6503403

DATE Y M D	TIME H M S	SIGMA MSEC	OBS NO	STA NO	L	M	N	OMEGA	PHI	A SEC	B SEC
1965 8 23	7 14 24.0263	1.0	71280	9007	.26670998	-.52576219	0.80085673	240	21	.7	.7
1965 8 23	7 14 24.0263	1.0	71280	9010	.63432495	-.73564891	-.23759743	340	34	.8	.5
1965 8 24	7 30 19.8957	1.0	71281	9007	.16053179	-.53041372	0.83240064	240	26	.8	.7
1965 8 24	7 30 19.8957	1.0	71281	9010	.52142676	-.83693852	-.16627702	370	31	.9	.8
1965 8 25	7 45 20.2624	1.0	71282	9001	.69330862	-.69478331	-.19130946	240	35	1.0	.4
1965 8 25	7 45 20.2624	1.0	71282	9007	-.00732463	-.55185486	0.83390801	240	35	1.5	.9
1965 9 3	15 2 8.3397	1.0	71311	9012	-.63586268	.41373963	0.65153524	300	40	.7	.6
1965 9 3	15 2 8.3397	1.0	71311	9117	-.53896579	.07297367	0.83916072	370	22	1.7	.7
1965 9 5	13 0 56.3419	1.0	71312	9012	-.72675513	-.03537952	0.68593489	410	28	1.1	.7
1965 9 5	13 0 56.3419	1.0	71312	9117	-.50220425	-.42293388	0.75426641	350	1	.7	.3
1965 10 4	1 15 16.2844	1.0	71322	9002	.53745457	.43500480	0.72243575	240	328	1.6	.7
1965 10 4	1 15 16.2844	1.0	71322	9008	.87657230	.09403122	-.47199484	250	319	1.0	.7
1965 10 5	8 50 20.1742	1.0	71323	9007	.05686985	-.88112258	0.46945588	320	331	1.1	.3
1965 10 5	8 50 20.1742	1.0	71323	9010	.25203449	-.71384212	-.65338200	240	334	1.2	.3

Table 3. Coordinates of the instantaneous pole in the 1900-1905 system

Year	M	D	MJD	x	y
1958	01	01	36204	-0.173	0.022
1958	01	19	36222	-0.215	0.098
1958	02	07	36241	-0.235	0.187
1958	02	25	36259	-0.237	0.265
1958	03	15	36277	-0.218	0.328
1958	04	02	36295	-0.162	0.389
1958	04	21	36314	-0.097	0.443
1958	05	09	36332	-0.032	0.478
1958	05	27	36350	0.036	0.493
1958	06	14	36368	0.111	0.478
1958	07	03	36387	0.188	0.447
1958	07	21	36405	0.237	0.411
1958	08	08	36423	0.348	0.365
1958	08	26	36441	0.398	0.307
1958	09	14	36460	0.398	0.235
1958	10	02	36478	0.368	0.165
1958	10	20	36496	0.330	0.097
1958	11	17	36514	0.280	0.043
1958	11	26	36533	0.218	-0.007
1958	12	14	36531	0.144	-0.038
1959	01	01	36569	0.069	-0.057
1959	01	19	36587	0.000	-0.064
1959	02	07	36606	-0.062	-0.057
1959	02	25	36624	-0.112	-0.025
1959	03	15	36642	-0.140	0.032
1959	04	02	36660	-0.153	0.120
1959	04	21	36679	-0.151	0.211
1959	05	09	36697	-0.126	0.285
1959	05	27	36715	-0.086	0.340
1959	06	14	36733	-0.037	0.372
1959	07	03	36752	0.026	0.393
1959	07	21	36770	0.092	0.406
1959	08	08	36788	0.161	0.410
1959	08	26	36806	0.223	0.401
1959	09	14	36825	0.272	0.370
1959	10	02	36843	0.299	0.320
1959	10	20	36861	0.308	0.260
1959	11	07	36879	0.296	0.201
1959	11	26	36898	0.261	0.143
1959	12	14	36916	0.202	0.090
1960	01	00	36933	0.135	0.043
1960	01	18	36951	0.073	0.007
1960	02	06	36970	0.046	-0.012
1960	02	24	36988	0.035	-0.007
1960	03	14	37007	0.013	0.025

Table 3 (Cont.)

Year	M	D	MJD	x	y
1960	04	01	37025	-0.026	0.059
1960	04	20	37044	-0.072	0.094
1960	05	08	37062	-0.096	0.123
1960	05	26	37080	-0.107	0.153
1960	06	13	37098	-0.103	0.182
1960	07	02	37117	-0.087	0.209
1960	07	20	37135	-0.039	0.238
1960	08	07	37153	0.004	0.263
1960	08	25	37171	0.040	0.288
1960	09	13	37190	0.070	0.300
1960	10	01	37208	0.080	0.306
1960	10	19	37226	0.109	0.301
1960	11	06	37244	0.117	0.288
1960	11	25	37263	0.117	0.271
1960	12	13	37281	0.109	0.249
1961	01	01	37300	0.092	0.220
1961	01	19	37318	0.074	0.189
1961	02	07	37337	0.065	0.161
1961	02	25	37355	0.064	0.150
1961	03	15	37373	0.062	0.151
1961	04	02	37391	0.057	0.158
1961	04	21	37410	0.046	0.161
1961	05	09	37428	0.034	0.160
1961	05	27	37446	0.030	0.155
1961	06	14	37464	0.032	0.153
1961	07	03	37483	0.040	0.150
1961	07	21	37501	0.043	0.151
1961	08	08	37519	0.042	0.154
1961	08	26	37537	0.041	0.157
1961	09	14	37556	0.039	0.165
1961	10	02	37574	0.028	0.174
1961	10	20	37592	0.019	0.191
1961	11	07	37610	-0.010	0.212
1961	11	26	37629	-0.027	0.242
1961	12	14	37647	-0.021	0.276
1962	01	01	37665	-0.009	0.297
1962	01	19	37683	0.008	0.309
1962	02	07	37702	0.027	0.314
1962	02	25	37720	0.047	0.312
1962	03	15	37738	0.071	0.304
1962	04	02	37756	0.095	0.290
1962	04	21	37775	0.120	0.271
1962	05	09	37793	0.142	0.246
1962	05	27	37811	0.162	0.214
1962	06	14	37829	0.173	0.175

Table 3 (Cont.)

Year	M	D	MJD	x	y
1962	07	03	37848	0.171	0.132
1962	07	21	37866	0.157	0.092
1962	08	08	37884	0.128	0.068
1962	08	26	37902	0.094	0.060
1962	09	14	37921	0.056	0.067
1962	10	02	37939	0.017	0.083
1962	10	20	37937	-0.019	0.104
1962	11	07	37975	-0.054	0.128
1962	11	26	37994	-0.086	0.160
1962	12	14	38012	-0.110	0.200
1963	01	01	38030	-0.121	0.248
1963	01	19	38048	-0.119	0.295
1963	02	07	38067	-0.105	0.329
1963	02	25	38085	-0.076	0.356
1963	03	15	38103	-0.038	0.376
1963	04	02	38121	0.009	0.388
1963	04	21	38140	0.070	0.387
1963	05	09	38158	0.134	0.375
1963	05	27	38176	0.191	0.349
1963	06	14	38194	0.239	0.307
1963	07	03	38213	0.274	0.251
1963	07	21	38231	0.301	0.193
1963	08	08	38249	0.281	0.139
1963	08	26	38267	0.237	0.091
1963	09	14	38286	0.176	0.046
1963	10	02	38304	0.112	0.008
1963	10	20	38322	0.048	-0.022
1963	11	07	38340	-0.009	0.001
1963	11	26	38359	-0.066	0.040
1963	12	14	38377	-0.121	0.081
1964	01	01	38395	-0.171	0.122
1964	01	19	38413	-0.208	0.169
1964	02	07	38432	-0.192	0.229
1964	02	25	38450	-0.168	0.292
1964	03	14	38468	-0.137	0.253
1964	04	01	38486	-0.100	0.410
1964	04	20	38505	-0.056	0.446
1964	05	08	38523	-0.001	0.459
1964	05	26	38541	0.075	0.456
1964	06	13	38559	0.159	0.436
1964	07	02	38578	0.212	0.400
1964	07	20	38596	0.240	0.341
1964	08	07	38614	0.242	0.272
1964	08	25	38632	0.239	0.217
1964	09	13	38651	0.255	0.168

Table 3 (Cont.)

Year	M	D	MJD	x	y
1964	10	01	38669	0.251	0.123
1964	10	19	38687	0.220	0.083
1964	11	06	38705	0.161	0.059
1964	11	25	38724	0.100	0.046
1964	12	13	38742	0.042	0.043
1965	01	01	38761	-0.015	0.049
1965	01	19	38779	-0.073	0.068
1965	02	07	38798	-0.125	0.101
1965	02	25	38816	-0.161	0.154
1965	03	15	38834	-0.183	0.223
1965	04	02	38852	-0.194	0.291
1965	04	21	38871	-0.193	0.337
1965	05	09	38889	-0.175	0.374
1965	05	27	38907	-0.134	0.409
1965	06	14	38925	-0.072	0.435
1965	07	03	38944	0.002	0.444
1965	07	21	38962	0.074	0.434
1965	08	08	38980	0.126	0.402
1965	08	26	38998	0.166	0.354
1965	09	14	39017	0.200	0.307
1965	10	02	39035	0.221	0.261
1965	10	20	39053	0.229	0.222
1965	11	07	39071	0.223	0.187
1965	11	26	39090	0.195	0.157
1965	12	14	39108	0.137	0.132
1966	01	01	39126	0.071	0.115
1966	01	19	39144	0.030	0.104
1966	02	07	39163	-0.002	0.099
1966	02	25	39181	-0.040	0.100

Table 4. Difference between A. S and UT1 times

MJD	- Δu	MJD	- Δu	MJD	- Δu
36204	0.0334	36434	0.3470	36664	0.6755
36209	0.0421	36439	0.3506	36669	0.6827
36214	0.0506	36444	0.3545	36674	0.6899
36219	0.0591	36449	0.3586	36679	0.6970
36224	0.0675	36454	0.3630	36684	0.7041
36229	0.0757	36459	0.3681	36689	0.7110
36234	0.0839	36464	0.3736	36694	0.7179
36239	0.0920	36469	0.3795	36699	0.7247
36244	0.0999	36474	0.3858	36704	0.7310
36249	0.1078	36470	0.3924	36709	0.7373
36254	0.1158	36484	0.3994	36714	0.7434
36259	0.1241	36489	0.4068	36719	0.7492
36264	0.1326	36494	0.4146	36724	0.7547
36269	0.1412	36499	0.4227	36729	0.7600
36274	0.1498	36504	0.4315	36734	0.7650
36279	0.1586	36509	0.4399	36739	0.7697
36284	0.1676	36514	0.4483	36744	0.7741
36289	0.1766	36519	0.4567	36749	0.7783
36294	0.1857	36524	0.4650	36754	0.7825
36299	0.1950	36529	0.4733	36759	0.7858
36304	0.2038	36534	0.4815	36764	0.7892
36309	0.2135	36539	0.4897	36769	0.7926
36314	0.2228	36544	0.4979	36774	0.7960
36319	0.2319	36549	0.5061	36779	0.7995
36324	0.2407	36554	0.5141	36784	0.8030
36329	0.2491	36559	0.5223	36789	0.8066
36334	0.2572	36564	0.5303	36794	0.8102
36339	0.2650	36569	0.5383	36799	0.8139
36344	0.2724	36574	0.5463	36804	0.8178
36349	0.2795	36579	0.5541	36809	0.8225
36354	0.2867	36584	0.5619	36814	0.8276
36359	0.2921	36589	0.5696	36819	0.8330
36364	0.2974	36594	0.5773	36824	0.8389
36369	0.3025	36599	0.5848	36829	0.8451
36374	0.3072	36604	0.5927	36834	0.8517
36379	0.3115	36609	0.5994	36839	0.8588
36384	0.3156	36614	0.6061	36844	0.8662
36389	0.3193	36619	0.6129	36849	0.8740
36394	0.3226	36624	0.6197	36854	0.8818
36399	0.3256	36629	0.6265	36859	0.8905
36404	0.3292	36634	0.6333	36864	0.8991
36409	0.3316	36639	0.6401	36869	0.9078
36414	0.3343	36644	0.6470	36874	0.9166
36419	0.3372	36649	0.6539	36879	0.9253
36424	0.3402	36654	0.6608	36884	0.9341
36429	0.3435	36659	0.6682		

Table 4 (Cont.)

MJD	- Δu	MJD	- Δu	MJD	- Δu
36889	0.9429	37114	1.2581	37339	1.4897
36894	0.9518	37119	1.2607	37344	1.4943
36899	0.9606	37124	1.2629	37349	1.4994
36904	0.9697	37129	1.2648	37354	1.5050
36909	0.9776	37134	1.2664	37359	1.5117
36914	0.9854	37139	1.2681	37364	1.5191
36919	0.9930	37144	1.2699	37369	1.5269
36924	1.0003	37149	1.2718	37374	1.5354
36929	1.0074	37154	1.2739	37379	1.5442
36934	1.0144	37159	1.2761	37384	1.5531
36939	1.0211	37164	1.2787	37389	1.5614
36944	1.0276	37169	1.2818	37394	1.5690
36949	1.0339	37174	1.2853	37399	1.5760
36954	1.0404	37179	1.2893	37404	1.5812
36959	1.0464	37184	1.2937	37409	1.5875
36964	1.0531	37189	1.2985	37414	1.5938
36969	1.0597	37194	1.3038	37419	1.5999
36974	1.0665	37199	1.3095	37424	1.6059
36979	1.0735	37204	1.3157	37429	1.6118
36984	1.0807	37209	1.3223	37434	1.6175
36989	1.0880	37214	1.3289	37439	1.6232
36994	1.0956	37219	1.3357	37444	1.6287
36999	1.1033	37224	1.3426	37449	1.6340
37004	1.1112	37229	1.3496	37454	1.6391
37009	1.1193	37234	1.3567	37459	1.6441
37014	1.1274	37239	1.3639	37464	1.6488
37019	1.1355	37244	1.3712	37469	1.6533
37024	1.1436	37249	1.3786	37474	1.6575
37029	1.1517	37254	1.3859	37479	1.6614
37034	1.1598	37259	1.3934	37484	1.6651
37039	1.1678	37264	1.4007	37489	1.6685
37044	1.1759	37269	1.4080	37494	1.6717
37049	1.1839	37274	1.4151	37499	1.6746
37054	1.1916	37279	1.4221	37504	1.6767
37059	1.1993	37284	1.4289	37509	1.6789
37064	1.2067	37289	1.4357	37514	1.6813
37069	1.2137	37294	1.4423	37519	1.6839
37074	1.2202	37299	1.4488	37524	1.6868
37079	1.2264	37304	1.4546	37529	1.6899
37084	1.2322	37309	1.4611	37534	1.6933
37089	1.2370	37314	1.4671	37539	1.6969
37094	1.2420	37319	1.4725	37544	1.7007
37099	1.2472	37324	1.4773	37549	1.7048
37104	1.2515	37329	1.4817	37554	1.7091
37109	1.2550	37334	1.4855	37559	1.7142

Table 4 (Cont.)

MJD	$-\Delta u$	MJD	$-\Delta u$	MJD	$-\Delta u$
37564	1.7195	37794	2.0421	38024	2.3254
37569	1.7250	37799	2.0497	38029	2.3332
37574	1.7309	37804	2.0583	38034	2.3396
37579	1.7371	37809	2.0647	38039	2.3458
37584	1.7435	37814	2.0705	38044	2.35
37589	1.7502	37819	2.0757	38049	2.35
37594	1.7572	37824	2.0804	38054	2.361
37599	1.7644	37829	2.0846	38059	2.3656
37604	1.7717	37834	2.0884	38064	2.3701
37609	1.7793	37839	2.0918	38069	2.3747
37614	1.7867	37844	2.0950	38074	2.3797
37619	1.7941	37849	2.0980	38079	2.3851
37624	1.8014	37854	2.1011	38084	2.3908
37629	1.8086	37859	2.1032	38089	2.3969
37634	1.8156	37864	2.1057	38094	2.4033
37639	1.8226	37869	2.1084	38099	2.4101
37644	1.8295	37874	2.1113	38104	2.4174
37649	1.8363	37879	2.1145	38109	2.4271
37654	1.8430	37884	2.1179	38114	2.4367
37659	1.8492	37889	2.1215	38119	2.4461
37664	1.8553	37894	2.1254	38124	2.4555
37669	1.8614	37899	2.1296	38129	2.4648
37674	1.8675	37904	2.1354	38134	2.4740
37679	1.8736	37909	2.1409	38139	2.4831
37684	1.8796	37914	2.1466	38144	2.4921
37689	1.8857	37919	2.1526	38149	2.5009
37694	1.8917	37924	2.1589	38154	2.5084
37699	1.8978	37929	2.1656	38159	2.5179
37704	1.9045	37934	2.1725	38164	2.5270
37709	1.9112	37939	2.1798	38169	2.5356
37714	1.9181	37944	2.1873	38174	2.5438
37719	1.9252	37949	2.1952	38179	2.5517
37724	1.9323	37954	2.2031	38184	2.5591
37729	1.9397	37959	2.2117	38189	2.5661
37734	1.9471	37964	2.2203	38194	2.5727
37739	1.9547	37969	2.2290	38199	2.5788
37744	1.9624	37974	2.2377	38204	2.5849
37749	1.9703	37979	2.2466	38209	2.5889
37754	1.9780	37984	2.2555	38214	2.5929
37759	1.9864	37989	2.2645	38219	2.5969
37764	1.9946	37994	2.2735	38224	2.6008
37769	2.0027	37999	2.2827	38229	2.6048
37774	2.0108	38004	2.2916	38234	2.6088
37779	2.0188	38009	2.3005	38239	2.6127
37784	2.0266	38014	2.3091	38244	2.6167
37789	2.0344	38019	2.3174	38249	2.6206

Table 4 (Cont.)

MJD	- Δu	MJD	- Δu	MJD	- Δu
38254	2.6255	38459	3.0212	38664	3.3737
38259	2.6317	38464	3.0320	38669	3.3842
38264	2.6381	38469	3.0428	38674	3.3952
38269	2.6449	38474	3.0535	38679	3.4066
38274	2.6519	38479	3.0641	38684	3.4186
38279	2.6592	38484	3.0748	38689	3.4311
38284	2.6668	38489	3.0853	38694	3.4442
38289	2.6747	38494	3.0959	38699	3.4600
38294	2.6829	38499	3.1064	38704	3.4733
38299	2.6913	38504	3.1165	38709	3.4861
38304	2.7006	38509	3.1283	38714	3.4984
38309	2.7103	38514	3.1400	38719	3.5104
38314	2.7203	38519	3.1513	38724	3.5219
38319	2.7304	38524	3.1625	38729	3.5330
38324	2.7406	38529	3.1734	38734	3.5436
38329	2.7511	38534	3.1840	38739	3.5539
38334	2.7617	38539	3.1944	38744	3.5637
38339	2.7725	38544	3.2046	38749	3.5741
38344	2.7835	38549	3.2145	38754	3.5848
38349	2.7946	38554	3.2245	38759	3.5955
38354	2.8057	38559	3.2319	38764	3.6062
38359	2.8168	38564	3.2389	38769	3.6170
38364	2.8278	38569	3.2457	38774	3.6278
38369	2.8386	38574	3.2521	38779	3.6386
38374	2.8492	38579	3.2582	38784	3.6495
38379	2.8596	38584	3.2640	38789	3.6604
38384	2.8699	38589	3.2694	38794	3.6713
38389	2.8800	38594	3.2745	38799	3.6793
38394	2.8900	38599	3.2793	38804	3.6888
38399	2.8997	38604	3.2802	38809	3.6986
38404	2.9098	38609	3.2832	38814	3.7086
38409	2.9199	38614	3.2867	38819	3.7189
38414	2.9301	38619	3.2910	38824	3.7293
38419	2.9402	38624	3.2958	38829	3.7401
38424	2.9503	38629	3.3013	38834	3.7510
38429	2.9604	38634	3.3074	38839	3.7622
38434	2.9704	38639	3.3142	38844	3.7736
38439	2.9805	38644	3.3216	38849	3.7872
38444	2.9906	38649	3.3455	38854	3.8020
38449	3.0006	38654	3.3544	38859	3.8165
38454	3.0104	38659	3.3638	38864	3.8307

Table 4 (Cont.)

MJD	- Δu	MJD	- Δu
38869	3.8446	39059	4.2475
38874	3.8582	39064	4.2615
38879	3.8715	39069	4.2753
38884	3.8844	39074	4.2890
38889	3.8970	39079	4.3024
38894	3.9094	39084	4.3157
38899	3.9191	39089	4.3289
38904	3.9299	39094	4.3418
38909	3.9406	39099	4.3551
38914	3.9512	39104	4.3683
38919	3.9615	39109	4.3809
38924	3.9718	39114	4.3929
38929	3.9818	39119	4.4044
38934	3.9917	39124	4.4152
38939	4.0014	39129	4.4255
38944	4.0110	39134	4.4352
38949	4.0171	39139	4.4443
38954	4.0231	39144	4.4528
38959	4.0295	39149	4.4614
38964	4.0364	39154	4.4720
38969	4.0437	39159	4.4835
38974	4.0515	39164	4.4958
38979	4.0598	39169	4.5090
38984	4.0684	39174	4.5222
38989	4.0775	39179	4.5352
38994	4.0871	39184	4.5480
38999	4.0958	39189	4.5604
39004	4.1053	39194	4.5725
39009	4.1155	39199	4.5833
39014	4.1262	39204	4.5950
39019	4.1375	39209	4.6071
39024	4.1494	39214	4.6195
39029	4.1619	39219	4.6323
39034	4.1750	39224	4.6455
39039	4.1887	39229	4.6590
39044	4.2030	39234	4.6729
39049	4.2189	39239	4.6872
39054	4.2333	39244	4.7018

Table 5. Modified Julian Day (MJD) for day 0 of the month.

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1957	35838	35869	35897	35928	35958	35989	36019	36050	36081	36111	36142	36172
1958	36203	36234	36262	36293	36323	36354	36384	36415	36446	36476	36507	36537
1959	36568	36599	36627	36658	36688	36719	36749	36780	36811	36841	36872	36902
1960	36933	36964	36993	37024	37054	37085	37115	37146	37177	37207	37238	37268
1961	37299	37330	37358	37389	37419	37450	37480	37511	37542	37572	37603	37633
1962	37664	37695	37723	37754	37784	37815	37845	37876	37907	37937	37968	37998
1963	38029	38060	38088	38119	38149	38180	38210	38241	38272	38302	38333	38363
1964	38394	38425	38454	38485	38515	38546	38576	38607	38638	38668	38699	38729
1965	38760	38791	38819	38850	38880	38911	38941	38972	39003	39033	39064	39094
1966	39125	39156	39184	39215	39245	39276	39306	39337	39368	39398	39429	39459
1967	39490	39521	39549	39580	39610	39641	39671	39702	39733	39763	39794	39824
1968	39855	39886	39915	39946	39976	40007	40037	40068	40099	40129	40160	40190
1969	40221	40252	40280	40311	40341	40372	40402	40433	40464	40494	40525	40555
1970	40586	40617	40645	40676	40706	40737	40767	40798	40829	40859	40890	40920

Table 6. Coordinates of the Baker-Nunn stations in the C6 system

Station number	x	y	z
1	-1.535759	-5.166995	+3.401041
2	+5.056126	+2.716485	-2.775816
3	-3.983750	+3.743101	-3.275593
4	+5.105593	-0.555232	+3.769674
5	-3.946697	+3.366286	+3.698843
6	+1.018205	+5.471100	+3.109614
7	+1.942769	-5.804078	-1.796961
8	+3.376882	+4.403985	+3.136254
9	+2.251820	-5.816915	+1.327164
10	+0.976282	-5.601389	+2.880242
11	+2.280575	-4.914569	-3.355457
12	-5.466055	-2.404275	+2.242170
14	-1.264839	-3.466892	+5.185475
15	+3.121275	+0.592628	+5.512695
17	-6.007405	-1.111873	+1.825726
23	-3.977738	+3.725115	-3.303060

BIOGRAPHICAL NOTES

ANTANAS GIRNIUS was graduated from the College for Geodesy and Land Reclamation, Kedainiai, Lithuania, in 1943.

He worked with the Department of Agriculture and Measurement of Lithuania on the Baltic triangulation from 1943 to 1944. Between 1946 and 1950 he studied geodesy at the University of Bonn, Germany, and received a degree in geodetic engineering.

Since joining Smithsonian in 1961, Mr. Girnius has been working as a geodesist in the field of geometric satellite geodesy.

WILLIAM JOUGHIN received his B. A. degree in physics from Harvard University in 1962.

He became a Programmer, Programming Division, at the Smithsonian Astrophysical Observatory in 1962, and was promoted to Mathematician in that department in 1966. He resigned in August of 1967 to attend the University of Pittsburgh Medical School.

NOTICE

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

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

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