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The AFGL Four Color Infrared Sky Survey: Supplemental Catalog

STEPHAN D. PRICE

12 July 1977

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FOR THE COMMANDER

John Howard

Chief Scientist

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Positions and magnitude measurements at effective wavelengths of 4.2, 11.0, 19.8, and 27.4 (μm) are reported for an additional 2477 sources observed during the AFGL survey program. These sources were obtained by relaxing the stringent selection criteria used for the main catalog ~~of Price and Walker's report*~~ and subjectively selecting those that have associations and/or other characteristics which make them of interest for future investigation.

*Air Force Geophysics Laboratory report TR-76-0208.

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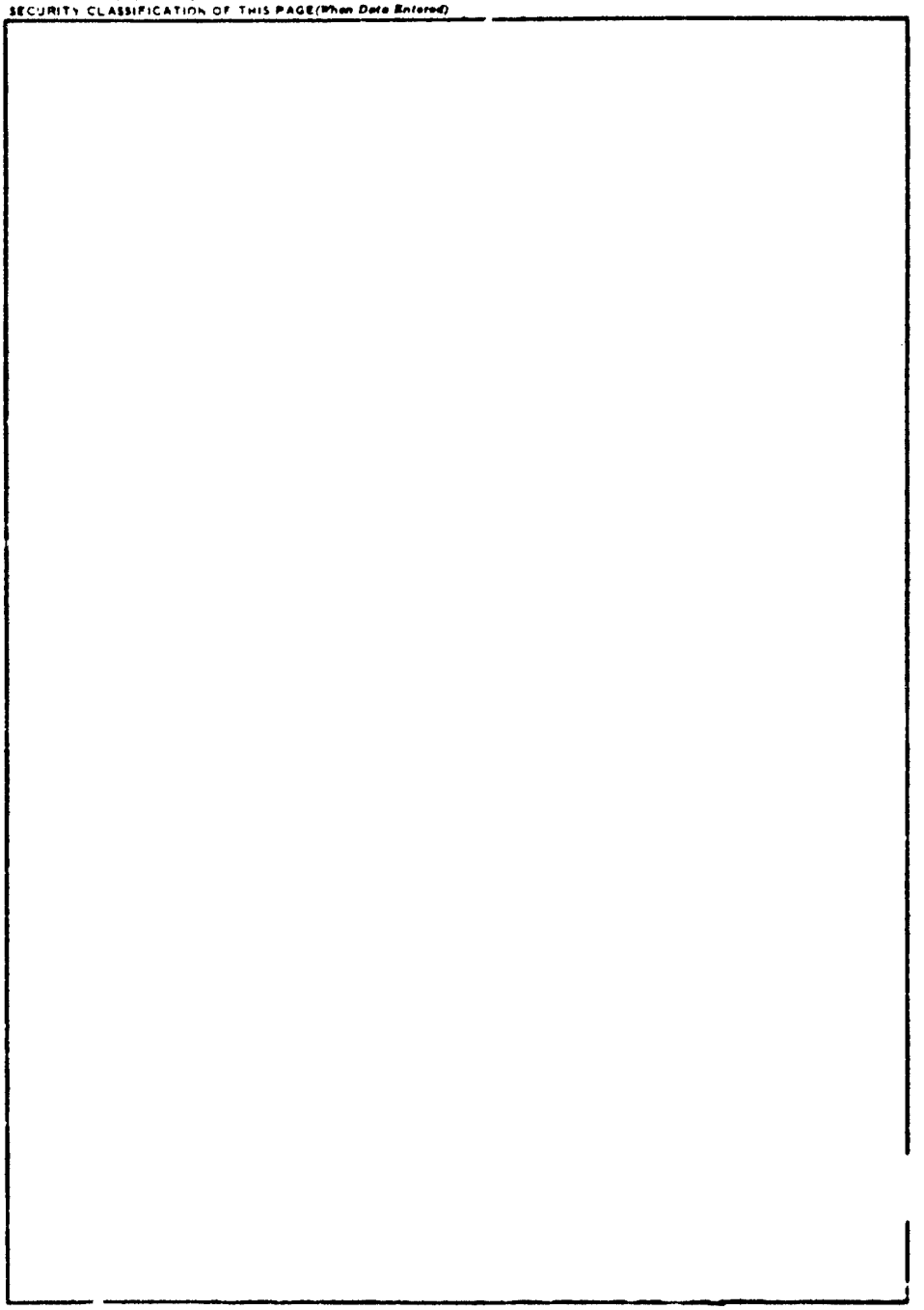
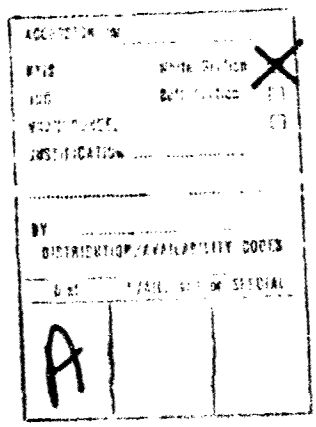


Preface

The sources which comprise this supplemental catalog were selected from those eliminated in the final data reduction processing. The list of objects which passed this routine were compiled into the AFGL catalog. Several pieces of private correspondence and articles in the literature indicated that certain sources should have been included in the AFGL catalog but were not. These sources were subsequently found in the supplemental list. It was then decided to publish this catalog despite the high number of false entries because it is known to contain several real sources with unusual characteristics and is expected to have more.

I would like to express my gratitude to Dr. Russell G. Walker of NASA, Ames. Many of the selection criteria used to obtain the supplemental sources evolved from our discussions. Mr. Leonard Marcotte deserves particular thanks as his intimate knowledge of data reduction and computer programming facilitated the data management. His patience and efficiency were essential in finalizing this catalog.



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The AFGL Four Color Infrared Sky Survey: Supplemental Catalog

1. INTRODUCTION

Since 1970 the Air Force Geophysics Laboratory has been engaged in a program to survey the sky in the 3 to 30 μm spectral region. Preliminary results of the northern hemisphere portion of the program were published by Walker and Price.[1] The preliminary catalog listed positions and magnitudes in one or more colors at effective wavelengths of 4.2, 11.0, and 19.8 μm on 3198 entries. These data were significantly revised with improved source selection criteria and extended to include the results of two southern hemisphere experiments. These experiments substituted a spectral band with a 27.4 μm effective wavelength for the one centered at 4.2 μm. These revised data have been presented as a four color catalog of Price and Walker,[2] hereafter referred to as the GL Catalog.

A number of sources which were not included in the revised catalog have significant characteristics which make them of interest. This supplemental catalog contains measurements on the positions and magnitude on 2477 of these sources.

(Received for publication 8 July 1977)

1. Walker, R.G., and Price, S.D. (1975) AFCRL-TR-75-0373.
2. Price, S.D., and Walker, R.G. (1976) AFGL-TR-76-0208.

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2. SOURCE SELECTION

A detailed description of the experimental profile and the data reduction is given by Price and Walker.[2] Briefly-potential sources were selected on the basis that the measured signal amplitude to noise ratio (S/N) exceeded a threshold value chosen by adopting an accetable false source rate for a gaussian noise distribution. The positions were then updated by cross-checking associations of the sources with objects in the 2.2 μm survey of Neugebauer and Leighton[3] or its extension.[4]

The individual measurements on a source observed on several flights were combined and the signal to noise of the individual observations in a common color were added in quadrature. The sources were then gated to a second, higher threshold. An expected S/N was calculated for each color and each flight which scanned a source and did not re-observe it. A weighted confirmation parameter was obtained in each color by summing the weights assigned to the S/N for each flight. The values of the individual weight were zero if the S/N was less than the lower threshold, one if the S/N was greater than the upper threshold and a half if the S/N was between the two values. With the limited exceptions noted by Price and Walker[2] a source was included in the main catalog only if its value of S/N exceeded the upper threshold and the number of multi-flight observations were greater than the confirmation parameter.

This supplemental catalog contains sources not included in the GL catalog which fall into the following categories:

(1) Sources which exceed a S/N threshold ten percent lower than required for inclusion in the GL catalog and satisfy the confirmation criterion,

(2) Sources rejected from the GL catalog on the basis of the confirmation criterion which have either observations in the same color on two separate flights or the number of observations which equals the weighted confirmation parameter,

(3) Sources which are observed at 4.2 μm and are associated with objects in the 2.2 μm survey of Neugebauer and Leighton[3] or its extension Neugebauer,[4]

(4) Sources associated with variable stars of either late spectral class or embedded in nebulosity.

In each of these categories sources were eliminated based upon subjective judgement on the quality of the observation.

The rationale of the first two criteria is that there are inherent inaccuracies in calculating the statistical parameters used in source selection. There is the random measurement error in determining the signal amplitude and the noise. Positional uncertainties may have resulted in using the wrong detector to determine

3. Neugebauer, G., and Leighton, R. B. (1969) Two Micron Sky Survey, A Preliminary Catalog, NASA-SP-3047.

4. Neugebauer, G. (1971) Private Communication.

the expected signal-to-noise ratio for the flights which failed to re-observe the object. In the extreme, a difference of a factor two in the expected signal-to-noise could have resulted.

The final three categories select sources associated with objects known, or suspected to be bright in the infrared.

It is difficult to estimate the number of false entries in the catalog because of the subjective bias in selecting the entries. It is estimated that 25 to 30 percent of the sources which are included because of their associations may have fortuitous positional agreement. A possible indication of the false entry rate may be obtained from the fact that about 370 of the sources which are common with the catalog of Walker and Price[1] and this supplement or the GL catalog have been searched for with ground based instruments and not found. About 42 percent of the unconfirmed sources in the GL catalog are located within 5 degrees latitude of the galactic equator while the 160 unconfirmed sources in the supplement are uniformly distributed in latitude. Low et al[5] and Lebofsky et al[6] have questioned the reality of the high galactic latitude sources. On the other hand, to date the ground based searches have confirmed 16 sources in the supplement.

3. SUPPLEMENTAL CATALOG

The catalog is divided into three sections; the main Table of Observations, the observing record of Multiply Observed Sources, and a Remarks section. There are 2477 entries with observations of 1872 sources at 4.2 μm, 547 at 11.0 μm, 517 at 19.8 μm and 31 sources at 27.4 μm. Of the 2477 sources a little more than half, 1318, are associated with IRC objects. An additional 275 sources have variable star or NGC/IC associations while 884 are unassociated. Only 428 entries have observations in more than one color, 33 sources have three color observations.

3.1 Contents of Table of Observations Section (See Appendix A)

Column 1 - Catalog Numbers

The sources are arranged in right ascension. Approximately 25 percent of the supplemental table contains sources which are in common with the CRL catalog of Walker and Price.[1] To avoid confusion the CRL number has been preserved with an S appended. The new sources are numbered serially beginning at ,001S.

5. Low, F.J., Kurtz, R.F., Vrba, F.J., and Rieke, G.H. (1976) Ap. J. 206:L153.
6. Lebofsky, M.J., Kleinmann, S.G., Rieke, G.H., and Low, F.J. (1976) Ap. J. 206:L157.

Columns 2 and 5 Coordinates

The measured right ascension and declination, for epoch 1950, are given in Columns 2 and 3 respectively. The positions for the multiply observed sources are averages of the individual positions.

Estimates of the positional uncertainties in right ascension are given in Column 4 (labeled EA) to the nearest second of time and for declination to the decimal min of arc in column 5 (ED). These positional uncertainties are essentially the effective resolution of a detector transformed from the rocket coordinate system to celestial coordinates. The elevation error is ± 0.85 or ± 3.55 arc min depending on whether or not the source was observed to transit the region where the detectors overlap. The azimuth error corresponds to the error in time in determining the signal peak (1.3 arc min at the equator). The individual errors were combined with the rms of the individual positions about the mean for multiply observed sources.

Columns 6 through 9 - Magnitudes

The measured magnitudes and, in parenthesis, their associated errors are given in these columns. The 4.2 μm magnitude and its error is listed in Column 6, the 11.0 μm values in Column 7, the 19.8 μm measurements in Column 8 and Column 9 gives the 27.4 μm values.

A blank entry indicates that the source was not detected in that spectral band. An asterisk designates that the source was not scanned in that color due to system problems. A less than sign (<) means that all measurements in that color were in saturation and, therefore, the tabulated value is a lower limit. The magnitudes for multiply observed sources are brightness averages of the individual measurements.

The calibration of the system has been described by Price and Walker.[2] The magnitude errors are a combination of the random errors of measurements and the calibration error. The relative accuracy was found to be somewhat better than the listed errors.

The adopted fluxes for a zero magnitude star are:

$$H(4.2\ \mu m) = 3.6 \times 10^{-15}\ W\ cm^{-2}\ \mu m^{-1}$$
$$H(11.0\ \mu m) = 8.3 \times 10^{-17}\ W\ cm^{-2}\ \mu m^{-1}$$
$$H(19.8\ \mu m) = 8.2 \times 10^{-18}\ W\ cm^{-2}\ \mu m^{-1}$$
$$H(27.4\ \mu m) = 2.2 \times 10^{-18}\ W\ cm^{-2}\ \mu m^{-1}$$

Columns 10 through 12 - Associations and Comments.

Comments and associations with objects in the IRC, Bright Star and/or other catalogs which have positional associations with the GL source, are given in these columns.

The IRC associations in Column 10 are based on positions given by Neugebauer and Leighton[3] and from an extension of the 2.2 μm survey (designated by an E) of Neugebauer.[4] The Bright Star number and the Bayer and Flamsteed designations are from Hoffleit.[7]

7. Hoffleit, D. (1964) Catalog of Bright Stars, Yale University Obs., 3rd Ed.

The associations in Column 11 are not inclusive but based on a hierarchy of catalogs which are ordered by a subjective estimate of the information content applicable to the source. Thus, an association with a star in the Dearborne catalog ranks highly as that source is known to have a red spectrum. The order of the catalog designation and their references are as follows:

Order	Prefix or Designation	Reference
1	Bayer or Flamstead	Hoffleit, D.[7]
2	Variable Star	Kukarkin, B.V. et al[8,9]
3	DO (Dearborne Observatory)	Lee, O.J. et al[10,11,12]
4	GC (General Catalog)	Boss, B.[13]
5	NGC (Revised New General Catalog)	Sulentic, J.W., and Tifft, W.G.[14]
	IC (Index Catalog)	Dryer, J.L.E.[15,16]
	SHARP	Sharpless, S.[17]
	RCW	Rodgers, A.W. et al[18]
	BRIGHT NEB	Lynds, B.T.[19]
	HFE	Hoffman, W.F. et al[20]
	W	Westerhout, G.[21]

The Greek letters μ and ν are designated MUU and NUU to avoid confusion with variable star designations.

Sources observed to have significant angular extent with respect to the subtense of the detector are denoted with an EO in Column 12. An EO designation does not necessarily apply to all spectral bands and all observations on a source, it just indicates that the source was measured as extended in one or more colors a majority of the times it was observed.

Additional associations with the catalogs of Order 5 above, (NGC, IC, etc), and associations with the Ohio State Radio Catalog, Edition 40 (Dixon)[22] are listed in the remarks sections and are referred to by an R in Column 12.

Columns 13 and 14 - Galactic Coordinates

The galactic longitude and latitude, in the ℓ^{II} and b^{II} system, are given to the nearest degree in Columns 13 and 14 respectively.

Column 15 - Observational Record

This nine character word represents the observing log for the source. Each digit represents a flight as follows:

(Because of the large number of references cited above, they will not be listed here. See Reference Page 15 for References 8 through 22.)

Character No.	Greenwich Data	Julian Date
1	3 April 1971	2441044.9
2	29 June 1971	2441131.8
3	29 October 1971	2441253.9
4	18 January 1972	2441334.8
5	15 April 1972	2441422.8
6	18 August 1972	2441547.9
7	5 December 1972	2441656.7
8	4 September 1974	2442295.4
9	11 September 1974	2442302.6

A zero designates that the area containing the source was not surveyed on that flight. Detection of a source during a flight is represented by a number in the appropriate character. The value of that number is a coded representation of the colors in which the source was observed. For the first seven flights the 4.2 μm observation was coded 1, the 11.0 μm coded 2, and 19.8 μm coded 4. For the eighth and ninth flights the 27.4 μm observation was coded 1 while the 11.0 and 19.8 μm detections were coded 2 and 4 respectively. The individual codes were added producing a unique value which is detailed as follows:

Code	Source Observed in Spectral Bands
1	4.2 or 27.4 μm
2	11.0 μm only
3	4.2 plus 11 or 27.4 plus 11.0 μm
4	19.8 μm only
5	4.2 plus 19.8 or 27.4 plus 19.8 μm
6	11.0 and 19.8 μm
7	All three colors

A question mark (?, in one of these columns means that the position source was scanned but that the noise level was too high for confirmation. A plus (+) designates that the source was scanned on that flight and its calculated signal-to-noise ratio was high enough to permit the source to be seen in at least one of the measured colors but it was not. Note that a plus on one flight may not be for the same color as a plus on another, but denotes a worst case situation.

3.2 Contents of Multiple Observed Sources (See Appendix B)

The individual observations for each of the multiply observed sources are given in this section. The table is divided into two data blocks. In each data block, the first column lists the GL number, the next four columns give the measured magnitude at 4.2, 11 19.8, and 27.4 μm respectively along with their respective estimated errors in parentheses, and the last column gives the Julian date of observation. A blank entry in the magnitude column denotes that the source was not

detected in that color (the 4 μm column for flights 8 and 9, and the 27 μm column for the rest of the flights are also blanked). An asterisk (*) signifies that the source was not scanned in that band due to system problems.

3.3 Contents of Remarks Section (See Appendix C)

Additional associations of GL sources with "nebular" objects (NGC, IC and etc.) and with version RA40 of the Master List of Radio Sources compiled by Dixon[22] are contained in this section. For an association to be made, the catalog object has to be within the listed right ascension and declination uncertainties from the GL position. The "nebular" associations are listed first then the radio sources are listed in order of proximity to the GL source.

No attempt has been made to select or prioritize the radio catalog references. The data is provided as supplemental information on the GL source. The abbreviations used in the Remarks section (Appendix C) are defined below and are taken from the list supplied by Dixon.[22]

Reference List From OSU Radio Catalog Version RA40

Survey Prefix	References
ADG	Altenhoff, W.J., Downes, G.S., Goad, L.E., Maxwell, A., and Rinehart, R. (1970) Astr. Astrophys. Suppl. 1.
BK	Beard, M., and Kerr, F.J. (1969) Austr. J. Phys. 22:121.
BP	Bailey, J.A., and Pooley, G.G. (1968) M.N.R.A.S. 138:51.
BTD	Beard, M., Thomas, B.M., and Day, G.A. (1969) Austr. J. Phys. Astrophys. Suppl. 11.
B2	Colla, G., Fanti, C., Fanti, R., Ficarra, A., Formiggini, L., Gandolfi, E., Grueff, G., Lari, C., Padrelli, L., Roffi, G., Tomasi, P., and Vigotti, M. (1970) Astron. Astrophys. Suppl. 1:281.
B2.2	Colla, G., Fanti, C., Fanti, R., Ficarra, A., Formiggini, L., Gandolfi, E., Lari, C., Marano, B., Padrielli, L., and Tomasi, P. (1972) Astron. Astrophys. Suppl. 1:1
B2.3	Colla, G., Fanti, C., Fanti, R., Ficarra, A., Formiggini, L., Gandolfi, E., Lari, C., Marano, B., Padrielli, L., and Tomasi, P. (1973) Astron. Astrophys. Suppl. 11:291.
DA	Galt, J.A., and Kennedy, J.E.D. (1968) A.J. 73:135.
DCC	Day, G.A., Cashwell, J.L., and Cooke, D.J. (1972) Austr. J. Phys. Astrophys. Suppl. 25.
DKM	Milne, D.K. (1971) Austr. J. Phys. 24.
DM	Downes, D., and Maxwell, A. (1966) Ap. J. 146:653.
DTG	Day, G.A., Thomas, B.M.A., and Goss, W.M. (1969) Austr. J. Phys. Astrophys., Suppl. 11.
DWC	Day, G.A., Warne, W.G., and Cooke, D.J. (1970) Austr. J. Phys. Suppl. 13.
FJ	Findlay, L.A., and Jones, B.B. (1973) Austr. J. Phys. 26:389.

Reference List From OSU Radio Catalog Version RA40 (Cont)

Survey Prefix	References
GC	Davis, M.N. (1971) A.J. 76:980.
GD	Goss, W.M., and Day, G.A. (1970) Austr. J. Phys. Astrophys. Suppl. 13.
GE	Goss, W.M., and Shaver, P.A. (1970) Austr. J. Phys. Astrophys. Suppl. 14:1
HM	Hoskins, D.G., and Murdoch, H.S. (1970) Austr. J. Phys. Astrophys. Suppl. 15.
HR	Hughes, V.A., and Ruutledge, D. (1969) A.J. 74:604.
KES	Kesteven, M.J.L. (1968) Aust. J. Phys. 21:369.
LHE	Long, R F., Haseler, F.B., and Elsmore, B. (1963) M.N.R.A.S. 125:313. Full list not published.
MC1	Davies, F.T. et al (1973) Aust. J. Phys., Astrophys. Suppl. 28.
MM	Moran, M. (1965) M.N.R.A.S. 129:447.
MSH(1)	Mills, B.Y., Slee, O.B., and Hill, E.R. (1958) Aust. J. Phys. 11:360.
MW	Wilson, M. (1972) M.N.R.A.S. 156:7.
NK	Kawajiri, N. (1970) Pub. Ast. Soc. Japan 22:165.
NRAO	Pauling-Toth, I.I.K., Wade, C.M., and Heeschen, D.S. (1966) Ap. J. Suppl. 116.
OB-OZ	Ehman, J.R., Dixon, R.S., Ramakrishna, C.M., and Kraus, J.D. (1974) A.J. 79:144.
	Rinsland, C.P., Dixon, R.S., Gearhart, M.R., and Kraus, J.D. (1974) A.J. 79:1129. (References to other portions of the OSU survey are contained in these articles.)
PRF	Foster, P.R. (1961) Ph.D. Dissertation.
PKS	Ekers, J.A. (1969) Aust. J. Phys., Suppl. 7. (References to others PKS surveys contained in this article.)
SG	Shaver, P.A., and Goss, W.M. (1970) Aust. J. Phys. Astrophys. Suppl. 14:77.
TD	Thomas, B.M.A., and Day, G.A. (1969) Aust. J. Phys. Astrophys. Suppl. 11.
VRO	Dickel, J.R., Webber, J.C., Yang, K.S., and Staff (1971) A.J. 76:294. (Additional references to the VRO survey in this article.)
4C(1)	Pilkington, J.D.H., and Scott, J.F. (1965) M.N.R.A.S. 69:183.
4C(2)	Gower, J.F.R., Scott, P.F., and Wills, D. (1967) M.N.R.A.S. 71:49.
4CP	Caswell, . . Ph.D. Dissertion (1966) University of Cambridge.
5C(4)	Wilson, M.A.G. (1970) M.N.R.A.S. 151:1.

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1. Walker, R.G., and Price, S.D. (1975) AFCRL-TR-75-0373.
2. Price, S.D., and Walker, R.G. (1976) AFGL-TR-76-0208.
3. Neugebauer, G., and Leighton, R.B. (1969) Two Micron Sky Survey, A Preliminary Catalog, NASA-SP-3047.
4. Neugebauer, G. (1971) Private Communication.
5. Low, F.J., Kurtz, R.F., Vrba, F.J., and Rieke, G.H. (1976) Ap. J. 206:L153.
6. Lebofsky, M.J., Kleinmann, S.G., Rieke, G.H., and Low, F.J. (1976) Ap. J. 206:L157.
7. Hoffleit, D. (1964) Catalog of Bright Stars, Yale University Obs., 3rd Ed.
8. Kukarkin, B.V., Kholopov, P.N., Efremov, Yu. N., Kukarkina, N.P., Kurochkin, N.E., Medvedeva, G.I., Perova, N.B., Federovich, V.P., and Frolov, M.S. (1969) General Catalog of Variable Stars, Vol. I and II, 3rd Ed., Academy of Sciences, U.S.S.R. (Moscow).
9. Kukarkin, B.V., Kholopov, P.N., Efremov, Yu. N., Kukarkina, N.P., Kurochkin, N.E., Medvedeva, G.I., Perova, N.B., Pskobsky, Yu. P., Fedorovich, V.P., and Frolov, M.S. (1971) First Supplement to the Third Edition of the General Catalog of Variable Stars, Academy of Sciences, U.S.S.R. (Moscow).
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16. Dryer, J. L. E. (1908) Second Index Catalog, Mem. Roy. Astro. Soc., Vol. LIX.
17. Sharpless, S. (1959) Ap. J. Suppl. 4:257.
18. Rodgers, A. W., Campbell, C. T., and Whiteoak, J. B. (1960) M. N. R. A. S. 121:103.
19. Lynds, B. T. (1962) Ap. J. Supp. VII:1.
20. Hoffman, W. F., Frederick, C. L., and Emery, R. S. (1971) Ap. J. 170:L89.
21. Westerhout, G. (1958) B. A. N. 14:216.
22. Dixon, R. S. (1975) Private Communication.

Appendix A

Table of Observations

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° '	EA "	ED "	M(4)	M(11)	M(2C)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
4001S	0 0 10	60 24.5	32	2.6	1.3(.3)				60434		DO 43959		117	-2	010?00?00
2S	0 0 14	73 43.5	32	2.4	1.6(.4)				70001		DO 44003		120	11	0?0117?00
3S	0 0 15	24 37.2	12	2.2		-.9(.4)	-3.4(.5)						109	-37	000?00?0+
4S	0 0 20	58 17.5	21	1.3	1.1(.3)								117	-4	0101.0?00
4002S	0 0 31	59 27.6	31	2.6	1.3(.3)		•						117	-3	0107?0?00
4003S	0 1 6	64 52.7	2.	1.8	1.7(.4)		-3.1(.5)		60002		DO 44055		118	3	040103?00
4004S	0 2 25	-11 50.7	10	2.5	1.7(.5)	-1.9(.4)					IC 1529		66	-71	00?00:3?0
4005S	0 3 20	58 3.4	27	2.3	1.7(.4)		-3.2(.4)				FG CAS	B	117	-6	0?050?00
4006S	0 4 4	-32 50.5	12	2.5	.8(.4)			-8.3(.8)	-30001		XY SCL		1	-79	000?0?110
4007S	0 4 43	-11 9.8	8	2.1	1.6(.3)	-2.0(.4)							89	-71	000?01120
4008S	0 5 12	1 5.4	14	3.2	1.9(.5)				1		DO 16		101	-60	0030010?0
4009S	0 5 23	-22 27.0	7	3.8	1.6(.4)				-20002		GC 141		58	-79	000?0?30
4010S	0 7 9	-2 54.5	15	3.4	1.7(.4)				3		DO 30		99	-64	000103?30
24S	0 7 42	38 9.1	20	2.4	1.9(.3)								114	-24	0?0103?00
4011S	0 7 44	71 1.5	49	2.9	1.3(.4)				70004		DO 22950		120	9	0?01??3?0
26S	0 7 45	33 23.0	19	2.7	1.5(.3)							B	113	-28	0?01?0300
4012S	0 8 9	71 9.2	47	2.2		-1.1(.4)	•						120	9	0??0?3?00
30S	0 9 7	27 57.3	18	2.9	1.6(.3)								112	-31	0?0100?00
31S	0 9 11	-6 17.8	16	4.0	1.0(.4)								97	-67	0?0?30100
32S	0 9 33	28 8.0	18	2.9	1.3(.3)						SVS 102315		113	-34	0?0100000
4013S	0 9 35	-18 15.5	8	3.6	1.4(.4)				-20005	37	GC 214		78	-77	000001?00
4014S	0 9 38	22 15.9	17	2.9	1.9(.3)				20003		DO 8236		111	-39	000100?00
4015S	0 10 1	70 42.8	24	2.7	1.9(.5)		-3.1(.5)				SVS 100008		120	8	0?0?43?00
34S	0 10 4	24 52.5	18	3.0	1.4(.3)								112	-37	0?0103?00
4016S	0 10 21	-3 39.7	16	4.0	1.5(.5)				4		DO 43		100	-65	000?0..00
35S	0 11 3	73 6.0	23	1.6	1.7(.4)		-2.8(.5)		70005				120	11	010..43100
4017S	0 11 17	-23 17.9	15	3.9	1.1(.4)				-30004	42	GC 249		38	-62	0?000?100
4018S	0 11 45	75 48.5	35	2.1	1.6(.4)	-.7(.5)			60001		DO 22948		121	13	0?0??3?00
39S	0 12 44	60 57.3	23	1.9		-.4(.5)					SHARP. 172		119	-1	0?02C0?00
4019S	0 12 56	66 19.4	40	2.9	1.6(.4)				70006				119	-4	0?010?700
4020S	0 14 26	-1 34.5	18	3.4	1.7(.3)							EO	104	-63	000100?00
44S	0 14 32	33 20.9	19	3.2	.7(.3)								115	-29	010+03000
46S	0 15 1	33 30.8	19	3.2	.6(.3)								115	-29	010+00000
4021S	0 15 29	19 57.5	17	3.0	1.7(.4)				20006		DO 8308		112	-42	000100300
4022S	0 17 53	61 35.3	18	2.1	1.3(.3)		•		60007		DO 23129		119	-1	010+00?00
4023S	0 17 59	7 53.6	16	3.3	1.7(.3)				10003	80	41 PSC		110	-54	000100000
4024S	0 18 33	59 41.4	20	4.1	1.1(.4)				60008		MZ CAS		119	-3	0+0+00100
4025S	0 18 36	-2 38.8	15	3.4	1.8(.4)				8		DO 79		105	-64	000100?00
4026S	0 18 43	50 39.4	24	2.2	2.0(.4)				50005		DO 23164		118	-12	0?0100?00
4027S	0 18 56	86 38.3	246	1.8	1.4(.4)		•				SVS 45		123	24	710+??700
4028S	0 19 20	43 53.2	22	3.0	1.7(.4)				40007				117	-18	0107?0000
54S	0 19 47	53 18.9	26	2.4	1.5(.3)								119	-9	0?0100?30
4029S	0 20 14	69 7.5	44	2.4			-3.0(.5)				BRIGHT NEB.EO		120	7	040???700
58S	0 20 30	-15 18.9	9	2.7	1.6(.4)				-20008		GC 459		91	-77	000001100
4030S	0 20 51	-30 3.9	9	3.7	1.8(.4)				-30008		GC 463		8	-83	000001?00
4031S	0 21 52	-4 56.9	15	3.4	1.2(.4)				9				106	-67	000100?00
63S	0 22 32	48 33.7	16	1.9		-.8(.4)							116	-14	020200000
69S	0 25 12	-36 3.3	8	2.7		-1.5(.4)							332	-80	000002?70
4032S	0 25 25	-11 55.6	9	1.9	-.6(.3)	-1.7(.3)			-10010		SVS 100039		102	-74	000+03+00
4033S	0 25 27	-49 52.7	25	3.0		-1.7(.4)							313	-67	000000020

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
4034S	0 25 47	16 12.2	17	3.3	2.0(.4)				20008	106	48 PSC		115	-46	000100000
4035S	0 26 0	-40 13.1	9	1.8	1.3(.3)	-1.0(.4)			-40006E	109	GC 558		322	-76	000003??0
74S	0 27 5	57 0.0	20	1.9	1.7(.3)						NS CAS	R	120	-5	010100?00
79S	0 28 23	76 18.2	35	2.2	1.4(.3)				80002		DO 23435		[illegible]	14	010+1??00
4036S	0 29 16	19 22.0	10	2.4	1.7(.4)				20009		DO 6404		117	-43	000100000
4037S	0 29 26	14 19.4	17	3.4	1.8(.4)				10005		T PSC		116	-48	000100000
4038S	0 30 8	50 53.9	24	2.5	2.0(.4)				50009		DO 23463		120	-12	0??100000
4039S	0 31 14	-29 51.7	10	3.8	1.8(.4)				-30009	138	GC 635		0	-85	000001?00
86S	0 33 0	70 15.0	24	1.9	1.2(.4)	-1.0(.5)			70009		CP CAS,EO		122	8	0201+1?00
97S	0 33 30	-14 44.9	10	2.7	1.5(.3)								106	-77	000102100
4040S	0 34 56	-7 31.6	11	3.9	"		-3.5(.4)						115	-70	000?04?00
91S	0 35 24	68 19.0	13	1.9	1.0(.3)	.2(.7)	-4.2(.5)		70011		DO 23599		122	6	0+1+43?00
95S	0 36 28	49 4.5	16	1.5	1.5(.3)				50013	164	GC 770		121	-13	0+110?100
4041S	0 36 52	-15 44.9	15	3.6	1.4(.3)								109	-78	000102?00
97S	0 36 59	71 47.8	27	2.2		-1.2(.4)					SVS 74		122	9	020?2?100
4042S	0 37 37	54 30.0	27	2.9	1.8(.3)								121	-8	0??100000
101S	0 37 49	36 55.7	19	2.5	1.7(.3)	-.8(.4)							121	-26	0+0300000
103S	0 38 7	-3 57.2	15	3.6	"	-2.0(.4)							116	-66	000?00000
4043S	0 38 53	-40 26.4	15	3.9	1.2(.4)				-40007E	180	MUU PHE		308	-71	000000100
4044S	0 39 30	-9 55.3	15	4.1	1.4(.5)				-10011		AI CET		115	-72	000+0?100
4045S	0 41 58	-79 38.7	87	2.6			-3.4(.4)						303	-38	000000040
4046S	0 42 1	38 51.5	9	2.2	1.7(.3)								122	-24	0??100000
4047S	0 42 50	58 9.2	26	1.6	1.4(.3)								122	-4	0??100?00
4048S	0 43 4	-4 52.7	15	3.6	1.6(.3)				12	201	GC 905		119	-67	000100000
4049S	0 43 16	57 43.9	31	3.1	1.8(.4)				60018		DO 23736,EO		122	-5	0??100?00
4050S	0 43 45	47 57.3	23	2.5	1.9(.4)				50014		U CAS		122	-15	0??100000
4051S	0 43 50	-17 19.2	15	3.6	1.2(.3)								116	-80	000104?00
4052S	0 44 29	23 58.2	18	3.2	1.3(.3)				20013	215	ZET AND	R	122	-39	000100000
4053S	0 44 56	53 15.4	27	2.9			-2.1(.5)		50015		V414 CAS		122	-9	0??400000
110S	0 45 31	8 24.4	16	3.6	1.6(.3)								122	-54	000100000
112S	0 46 13	57 31.5	16	1.9	1.5(.3)	-.7(.4)			60019	219	ETA CAS		123	-5	02?100100
4054S	0 46 53	-10 54.7	12	4.0			-3.1(.4)						121	-74	000?04?00
114S	0 46 56	64 27.2	26	2.2	1.6(.3)	-.7(.5)					SHARP, 182		123	2	02?100?00
4055S	0 47 10	-13 47.8	15	3.6	2.2(.4)				-10013	227	GC 984		121	-76	000102?00
4056S	0 47 31	44 27.8	21	2.3	1.3(.3)								123	-18	0??100000
119S	0 49 6	56 17.0	20	2.1	1.6(.3)								123	-6	01?100000
4057S	0 49 31	47 45.2	23	2.6	1.6(.3)								123	-15	0?+100000
4058S	0 50 3	53 04.8	25	1.6	1.5(.3)						V452 CAS		123	-9	021?00000
4059S	0 50 9	-24 17.0	13	3.9	1.7(.4)				-20012	247	GC 1051		128	-87	000002100
4060S	0 50 10	44 50.5	21	2.4	1.3(.3)				40015		DO 23856		123	-18	0?+100000
125S	0 50 48	52 23.3	18	2.1	1.6(.3)				50018	250	GC 1068		123	-10	01?100000
4061S	0 50 57	73 52.6	21	3.6	1.7(.4)				70014		DO 23870		123	11	0??1??00
4062S	0 52 4	58 17.3	31	3.3	2.0(.4)				F 026		M CAS		123	-4	0??100?00
130S	0 52 45	-23 50.0	8	2.8		-.6(.4)					IC 1600		137	-86	000002?00
131S	0 53 0	-7 34.6	10	2.7			-3.2(.4)		-10014	263	GC 1103		126	-70	000?00000
4063S	0 53 23	-65 12.6	38	3.0		-1.6(.4)							302	-52	000000020
4064S	0 53 29	-28 1.2	13	3.9	1.6(.5)				-30012	268	GC 1110		245	-89	000002100
4065S	0 53 35	-11 31.0	14	4.1	1.3(.5)				-10015	267	PHI3 CET		127	-74	000+0?100
4066S	0 54 10	26 5.1	18	3.1	1.8(.4)				30017		DO 8579		124	-37	00?100000
4067S	0 54 30	-60 56.5	33	3.0			-3.2(.4)						302	-56	000000040

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GL	RA(1950)	DEC(1950)	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II	B II	OBS. LOG
	H M S	° '	S	'									°	°	
4068S	0 55 8	-30 9.7	10	3.3			-3.8(.4)						277	-87	0000072=0
4069S	0 56 18	39 22.0	19	2.2	1.2(.4)				40017		DO 8598		125	-23	0??100700
4070S	0 56 42	42 33.8	10	1.5	1.8(.4)				40018		DO 23543		125	-20	0?1-00000
139S	0 56 58	32 38.9	19	2.7	1.3(.3)								125	-30	00+100000
140S	0 56 59	-8 48.7	15	3.7	•		-4.1(.4)						129	-71	000107000
4071S	0 57 8	6 12.4	16	3.7	1.6(.4)				10008	284	WW PSC		127	-56	000100000
4072S	0 57 59	46 38.9	23	2.8	1.8(.4)				50022		DO 23957		125	-16	0??100200
4073S	0 58 46	-12 19.8	14	3.7	1.5(.3)								132	-75	000107?00
4074S	0 59 29	69 4.1	45	3.8	1.9(.3)								124	8	0??17?700
146S	0 59 33	61 34.1	21	2.5	1.4(.4)				60034		HO CAS		124	-1	01??00100
4075S	1 0 1	62 49.7	23	2.7	1.7(.4)				60035		DO 23979		124	0	0??100100
4076S	1 0 1	7 34.8	16	3.6	1.9(.5)				10009	284	EPS PSC		128	-55	000100000
4077S	1 0 27	-5 6.9	15	3.7	2.3(.5)				-10017	296	25 CET		130	-68	000107000
4078S	1 1 12	52 15.3	25	2.5	1.3(.4)				50025	298	GC 1275		125	-10	0??100000
150S	1 1 51	28 33.2	9	1.7	1.8(.3)	-.7(.4)							126	-34	00+300007
151S	1 2 8	-7 3.1	10	2.8	1.1(.3)								132	-69	000101000
155S	1 2 47	19 58.9	18	3.4	1.5(.3)								127	-43	00+100000
4079S	1 3 5	49 36.0	24	3.2	1.9(.4)		•		50026				125	-13	01?000000
4080S	1 4 21	53 15.4	26	2.8	1.4(.4)				50027	318	GC 1343		125	-9	0?+100000
4081S	1 4 23	45 21.2	20	1.9	1.3(.4)				50029		EI AND		126	-17	0?1000000
4082S	1 4 27	49 7.5	24	3.2	1.1(.4)		•		50028				126	-13	01+000000
159S	1 5 2	-2 6.9	15	3.7	1.5(.3)		-3.0(.4)						132	-64	000500000
4083S	1 5 36	9 38.2	18	3.6	1.8(.4)				10012		DO 158		130	-53	0.01?00000
4084S	1 7 21	25 12.4	17	2.9	2.0(.5)				30020	341	GC 1415		128	-37	001?00000
4085S	1 7 22	-65 24.9	38	3.1			-3.6(.4)						300	-52	000500030
4086S	1 7 45	2 10.6	16	3.8	1.6(.4)				15	347	33 CET		132	-60	000100000
168S	1 7 47	10 33.4	11	2.2	1.4(.3)	-1.7(.4)							130	-52	002100000
4087S	1 8 25	20 41.0	18	3.4	1.6(.4)				20020	381	PSI PSC		129	-42	007100000
4088S	1 8 30	-33 46.6	19	3.4			-3.6(.5)						271	-82	00030+?40
4089S	1 8 57	20 46.5	16	2.2	1.3(.4)				20020	381	PSI PSC		129	-42	001+00000
170S	1 9 23	21 57.2	18	3.4	1.3(.3)										
174S	1 9 52	-1 9.1	15	3.7	1.6(.3)						X PSC		129	-40	00+100000
176S	1 9 54	-33 18.4	8	2.7		-1.8(.4)							135	-63	0001000?0
178S	1 10 51	13 3.2	17	3.7	2.0(.3)						NGC 427		261	-83	000002200
180S	1 11 4	-43 9.4	10	2.0	1.2(.4)	-3.3(.3)	-3.6(.4)					R	131	-49	007100000
4090S	1 11 23	28 15.8	9	1.7	1.1(.3)				30024	383	DO 8693		289	-74	0000074+0
4091S	1 11 51	74 56.9	81	2.9	1.6(.4)				70023		DO 24159		129	-34	001000000
4092S	1 12 10	-7 21.8	15	3.8	1.7(.3)								125	12	01?????00
165S	1 12 20	78 50.1	57	2.5		<-1.5(.3)						EO	139	-69	000107000
4093S	1 12 36	57 45.9	16	1.8		-.8(.4)						EO	124	16	02+++2+00
											V463 CAS		126	-5	022?00000
187S	1 12 48	48 59.2	24	3.3	.7(.3)		•								
4094S	1 14 4	-13 35.8	14	3.8	1.7(.3)								127	-13	01+000000
195S	1 16 10	-27 33.8	12	3.9	1.3(.3)		-3.0(.5)						147	-75	000107?00
198S	1 16 36	1 16.3	15	3.8	1.8(.3)								216	-84	000065?00
4095S	1 17 8	57 15.3	16	2.2	1.4(.3)								137	-61	000100000
4096S	1 17 43	67 7.9	42	3.8	1.8(.4)				60045		PP CAS		127	-5	0?+100000
201S	1 18 21	18 54.9	18	3.5	1.4(.3)				70025		CI CAS		126	5	0??107?00
4097S	1 18 24	-17 16.0	9	2.2		-1.3(.4)							133	-43	00+100000
202S	1 18 41	76 37.2	48	2.4	1.5(.3)								158	-78	000207+00
204S	1 19 3	-1 19.7	15	3.9	1.6(.3)								125	14	01?1??700
													140	-63	0001000?0

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GL	RA(1950)	DEC(1950)	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II	B II	OBS. LOG
	H M S	° ′	S	′								°	°	
4098S	1 19 53	1 23.5	15	3 8	2.4(.4)				18	392	GC 1657	139	-60	00?100000
4099S	1 20 4	-69 15.7	45	3.1			-3.2(.4)					299	-48	000000040
208S	1 20 47	-9 .7	14	3.8	1.6(.3)							147	-70	000107000
4100S	1 21 3	-18 8.6	14	3.8	1.7(.4)				-20014		GC 1682	163	-78	000107?00
209S	1 21 13	-31 14.4	8	2.7	1.4(.4)				-30014	400	GC 1687	244	-82	000001100
212S	1 21 39	19 1.1	13	2.4		-1.1(.4)	-2.8(.5)					134	-43	0060?000?
213S	1 22 15	67 51 5	21	2.0	1.4(.3)	-2.0(.4)			70027	399	PSI CAS	126	5	0+112?+00
4101S	1 22 26	14 35.4	16	2.4	1.5(.4)				10018		IC 0107 EO	135	-47	001?00000
4102S	1 22 51	57 20.3	31	3.6	2.2(.4)				60049		DO 24312	128	-5	0??1C0000
4103S	1 22 55	-46 15.4	12	3.8	1.9(.4)				-40009E		GC 1723	286	-70	000000100
4104S	1 23 15	17 54.1	9	1.8	1.3(.3)	-1.1(.4)					IC 1701	134	-44	00+300007
4105S	1 23 49	-17 13.3	14	3.8	1.5(.3)							163	-77	000107?00
4106S	1 24 34	14 29.9	17	3.?		-.8(.4)					IC 1706	136	-47	007200007
4107S	1 25 1	-22 48.4	14	3.8	1.3(.3)		-3.0(.5)					186	-81	000507?00
4108S	1 25 39	7 39.3	16	3.9	1.6(.4)						SVS 100115	139	-54	00?1C0000
4109S	1 25 55	61 29.0	35	3.8	1.6(.4)				60051		DO 24366	127	-1	0??100?00
221S	1 26 2	79 25.3	41	2.0	1.6(.4)		-3.2(.5)		80003		DO 24400	125	17	0?411??00
4110S	1 26 15	-22 1.?	12	4.0			-3.5(.4)					183	-80	000?04?00
222S	1 26 36	35 40.1	18	1.8	1.7(.3)							132	-26	001000000
4111S	1 27 19	-47 3.4	12	3.8	.7(.4)					435	GC 1813.EO	285	-69	000000100
4112S	1 28 8	14 44.3	17	3.7	1.5(.4)				10018		DO 8792	137	-47	007100000
4113S	1 29 6	15 23.0	12	2.2	1.3(.4)		-2.6(.5)		20027		DO 8798	137	-46	001400007
4114S	1 29 58	58 3.6	29	2.4	1.7(.4)				60055	439	GC 1870	128	-4	0?1000000
4115S	1 30 6	77 18.9	71	2.8	1.4(.3)							125	15	0+1???700
4116S	1 30 23	-0 9.5	15	2.8	1.8(.4)				20		DO 242	145	-81	001?00000
4117S	1 30 32	58 59.5	30	3.3	1.4(.4)				6005?	442	CHI CAS	128	-3	0??10C?00
4118S	1 31 47	37 57.0	18	1.6	2.1(.5)				4????		DO 8820	132	-24	001000000
232S	1 31 48	15 6.0	16	2.5	1.6(.3)							138	-46	001000000
4119S	1 31 54	-19 16.2	14	3.8	2.0(.4)				-20015		AP CET	176	-77	000107?00
4120S	1 32 15	12 20.8	11	2.7	2.1(.4)		-3.7(.8)				SVS 100123	139	-49	007100004
233S	1 32 22	23 21.1	17	2.2		-1.2(.4)						136	-38	002000007
4121S	1 32 22	18 12.2	16	2.4	1.5(.4)				20028	450	DO 8822.EO	137	-43	001000000
4122S	1 33 37	-15 37.7	9	2.3	1.6(.3)				-20015	459	SO CET	167	-74	000107?00
4 235	1 3? 41	-36 38.8	10	3.8	1.1(.4)				-30013E			260	-77	00000+100
4124S	1 35 17	-3 40.5	15	3.9	2.0(.4)				21		GC 1975	150	-64	007107000
239S	1 35 20	8 25.3	.6	2.7	1.4(.3)							142	-52	001?00000
4125S	1 36 3	1 7.9	15	3.9	1.5(.3)				22		SW CET	147	-59	007100000
4126S	1 36 30	-18 13.4	13	4.0	1 2(.3)						UV CET	175	-76	000?01?00
4127S	1 36 53	60 37.0	31	3.5	1.4(.4)				60060		DO 24581	129	-1	0??100?00
241S	1 37 0	8 40.7	16	3.9	1 7(.3)							143	-52	007100000
242S	1 37 28	55 47.4	28	2.4	1.4(.3)							130	-6	0+1000000
4128S	1 37 32	-2 7.1	15	3.9	1.6(.3)							150	-62	007107000
4129S	1 38 43	-1 51.2	15	2.8			-3.9(.4)					150	-62	004+07000
4130S	1 39 10	-3 19.7	15	4.0	1.6(.4)				23		DO 275	152	-63	007107000
4131S	1 39 56	48 15.2	23	2.1	1.7(.4)				50043		DO 24681	132	-13	001000000
4132S	1 40 14	58 32.8	29	3.3	1.8(.4)	-1.2(.4)			60062		DO 24682	130	-3	03+000000
4133S	1 40 15	-3 58.2	15	4.2	1.4(.4)				24	500	GC 2093	153	-64	007?01C00
4134S	1 40 47	-22 54.3	13	3.8		-1.1(.4)						195	-77	00020+?00
4135	1 41 35	-16 10.2	11	3.2	1.4(.5)				-20018	509	TAU CET	173	-73	000+07100
4136S	1 42 2	60 46.5	17	2.0	1.7(.4)	-.7(.4)			60063		DO 24747	129	-1	073000?00

TABLE OF OBSERVATIONS

GL	RA(1950)	DEC(1950)	EA	ED	M(4)	M(11)	M(30)	M(27)	IRC	BS	COMMENTS	L II	B II	OBS. LOG
	H M S	O '	S '									O	O	
4137S	1 42 31	8 51.1	16 4.0		1.8(.4)				10021	510	OMI PSC,EO	145	-52	00?100000
4138S	1 43 17	-5 55.6	15 4.2		.9(.3)				-10024	513	GC 2148	156	-65	00++010000
4139S	1 43 44	62 21.0	31 4.0		1.5(.4)				60065		BX CAS	129	0	0?+?01?00
248S	1 44 14	64 17.5	26 2.9		1.0(.3)	-.7(.4)					DO 24787	129	2	0++301?00
4140S	1 44 20	-42 29.5	21 3.5			-2.3(.4)	-3.6(.5)					270	-71	000000+60
4141S	1 44 48	-25 35.9	14 3.9				-3.9(.4)					208	-77	0004007?00
4142S	1 45 41	-46 27.1	12 2.5		1.9(.4)			-6.7(.6)			GC 2189	276	-68	0000010110
4143S	1 45 43	33 54.6	18 1.7		.9(.3)				30030		DO 8929	136	-27	0010000000
4144S	1 48 2	37 46.1	19 1.8		1.4(.4)				40028		DO 8946	136	-23	0010000000
4145S	1 49 44	-7 16.4	16 3.0		1.7(.3)	-1.7(.3)						161	-65	003?07?000
4146S	1 50 7	68 57.2	44 4.1		1.5(.4)				70031		DO 24930	128	7	0?11??700
4147S	1 50 23	60 49.9	19 3.8			-1.3(.4)					WX CAS	130	-1	0?10?0?000
258S	1 50 29	54 1.2	19 2.1		1.8(.3)	-1.1(.5)			50047		DO 24942	132	-8	0210000?10
260S	1 51 25	6 46 6	16 4.0		1.2(.3)							149	-53	007100?000
4148S	1 51 56	4 28 4	11 2.5		1.5(.4)	-.1(.4)			28		DO 327	151	-55	0012?0007
263S	1 52 10	-31 52.4	9 3.7			-1.4(.4)						235	-76	0000??200
264S	1 52 17	6 58.6	16 4.0		1.3(.3)		-3.4(.4)					149	-52	00-5 0007
266S	1 52 22	24 50 9	17 2.1				-2.9(.4)					141	-36	00?000000
267S	1 52 28	7 42.6	16 4.0		1.5(.3)							149	-52	00+100000
269S	1 52 59	43 32.4	21 2.1		1.2(.3)							135	-18	0010000000
270S	1 53 3	59 2.2	21 2.2		1.7(.4)				60069		X CAS	131	-3	0110000000
4149S	1 53 20	37 .4	18 1.8		1.6(.4)				40033	566	GC 2322	137	-24	0010?00000
275S	1 55 13	5 47.1	11 2.6			-1.2(.4)						151	-53	007?00007
4150S	1 55 14	-70 23.0	47 3.4			-1.9(.4)						295	-46	000000020
4151S	1 55 22	59 1.2	31 2.7		1.3(.4)				60070		DO 25064	131	-2	0?10000000
4152S	1 56 8	2 42.6	16 4.1		*		-3.6(.4)					154	-56	007?04007
282S	1 56 29	75 41.8	34 2.2		1.7(.4)				80004		SVS 100153	127	14	0?11?1?00
288S	1 58 19	71 1.2	26 2.8		1.9(.4)				70033		V393 CAS	129	9	0?11??100
4153S	1 59 19	55 .4	27 2.6		1.2(.3)				50052		XX PER,EO	133	-6	0?10000000
4154S	1 59 26	-6 12.6	14 4.0			-1.6(.3)						164	-63	007?07?000
4155S	1 59 34	-7 33.5	14 4.0		1.6(.3)							166	-64	007107?000
4156S	1 59 45	16 1.8	16 2.5		1.3(.3)				20036		BY ARI	147	-43	0010000000
293S	2 0 20	-45 36.2	9 3.6		*	-2.1(.4)						270	-67	0000000?00
4157S	2 1 40	-12 7.4	13 3.9		1.8(.3)				-10031		GC 2498	175	-67	007107?000
4,.8S	2 1 40	-10 40.6	13 3.9		1.3(.5)							172	-66	00+107?000
4159S	2 2 18	-3 4.4	14 4.0		1.8(.3)							162	-60	007107?000
4160S	2 2 28	-17 30.2	13 3.9		1.6(.4)				-20026			187	-70	007107?700
4161S	2 4 2	-39 47.3	9 2.7		1.9(.5)		-3.6(.5)		-30015E		GC 2537	256	-70	0000004100
4162S	2 4 54	-0 28.6	16 3.0		1.3(.3)							160	-57	001?07?000
298S	2 4 56	58 1.0	21 2.3		1.6(.3)	-1.1(.5)			60073		1,135	133	-2	031007?000
4163S	2 6 8	-11 57.7	18 3.2		1.5(.3)							176	-66	001?07?000
4164S	2 6 21	-4 53.4	14 4.0		1.2(.3)							166	-61	007107?000
302S	2 6 46	16 32.7	16 2.6		*		-3.4(.4)					149	-42	0030000000
4165S	2 7 16	-13 58.2	13 3.9		1.5(.3)							181	-67	007107?700
304S	2 8 11	22 14.7	17 2.4		1.3(.3)							146	-37	0010030000
4166S	2 8 28	4 28.8	16 4.0			-1.0(.4)	-3.7(.4)					157	-53	007?06007
4167S	2 9 14	-27 .6	9 2.1				-3.9(.4)					216	-72	00040+?00
4168S	2 9 22	-23 52.0	9 2.7		1.2(.4)	-.5(.4)			-20029		R	206	-72	0002017?0
4169S	2 9 50	44 .9	22 2.5		1.5(.4)				40036	643	60 AND,EO	138	-16	0010000000
4170S	2 10 16	16 2.2	16 2.7		1.5(.4)				20043	648	19 ARI	150	-43	0010000000

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° '	EA	ED	B(4)	B(11)	B(20)	B(27)	IRC	BS	COMMENTS	L II °	B II °	OBS. LOG
4171S	2 11 23	-5 47.2	18	3.2	1.6(.3)							169	-61	001?07000
4172S	2 11 43	-19 47.9	16	3.3	1.3(.3)		-3.3(.5)					196	-70	005+07?00
4173S	2 12 51	67 2.6	21	3.7	1.6(.4)				70034		DO 25476	131	8	0???07100
4174S	2 13 14	75 6.9	32	2.8		-.6(.4)					BRIGHT NEB	128	13	0?7227?00
4175S	2 13 20	-23 32.4	9	3.7	1.5(.4)				-20030		GC 2720	206	-71	000?07100
4176S	2 13 28	-20 47.2	10	2.6	1.8(.4)		-3.4(.5)		-20031		RY CET	199	-70	004107?00
4177S	2 13 35	-25 48.8	14	3.8	1.4(.3)	-1.3(.4)						213	-71	000+03?00
4178S	2 13 52	72 29.2	32	3.9		-.8(.4)	-3.2(.5)				BRIGHT NEB.EO	129	11	0?+767?00
312S	2 14 36	-14 54.6	10	2.8		-.8(.4)						185	-67	00?202?00
4179S	2 15 37	31 53.1	17	1.9	1.8(.4)				30038		DO 9167	144	-27	001000000
4180S	2 15 43	-1 33.6	15	4.1	1.3(.3)							165	-57	00?107000
4181S	2 15 59	-5 36.4	16	3.2			-3.7(.4)					170	-60	0047?+000
315S	2 16 17	63 55.8	26	2.5	1.4(.3)				60080		DO 25546	132	3	0?1001?00
316S	2 16 28	33 36.9	8	1.9		-.5(.4)	-3.3(.4)					143	-26	006000000
4182S	2 16 55	56 46.1	17	2.3	1.9(.5)	-1.9(.4)	*		60082		AD PER	135	-4	03+000000
4183S	2 17 3	-19 2.3	13	3.9	1.7(.3)							195	-68	00?10??00
4184S	2 17 38	-12 29.5	16	3.3	1.4(.3)							192	-64	001?07000
4185S	2 17 47	60 32.1	18	2.6	1.4(.4)						BRIGHT NEB	134	-0	01+007100
4186S	2 17 48	-22 45.9	13	3.9	1.6(.3)							205	-69	00?107?00
4187S	2 18 25	23 12.7	17	2.3	1.6(.4)				20044		DO 9202	148	-35	001000000
4188S	2 18 36	57 36.2	29	3.0	1.7(.4)				60085		PR PER	135	-3	0?1007000
324S	2 19 25	70 45.4	44	4.1		-.9(.4)					DO 25605	130	9	0?+27??00
4189S	2 19 44	56 59.0	18	2.5	.6(.3)		-2.7(.5)		60089		NGC 884	135	-3	0++005000
4190S	2 20 9	-10 26.5	13	4.0	2.2(.4)				-10034		TZ CET	179	-63	00?107000
4191S	2 20 31	-9 24.4	13	4.0	1.4(.3)							178	-62	00+107000
4192S	2 20 35	-3 3.5	16	3.2	1.3(.3)							169	-57	001?07000
4193S	2 22 43	-13 23.1	12	4.0	1.3(.3)							185	-64	00?107?00
4194S	2 23 6	37 53.6	19	2.3	1.7(.4)				40040		BI AND	143	-21	001000000
4195S	2 23 29	-0 22.9	15	3.5			-3.3(.6)		32		R CET	167	-55	00?707004
4196S	2 24 9	36 44.8	19	2.3	1.1(.4)				40041		DO 9273	143	-22	001000000
334S	2 24 33	26 43.3	17	2.0			-2.9(.4)					148	-31	004000000
4197S	2 25 49	68 57.6	19	2.1	1.7(.4)	-.4(.5)	-4.3(.6)		70035			132	8	01++2+400
4198S	2 28 12	-34 34.1	10	3.6		-1.2(.4)					IC 1813	238	-68	000007200
338S	2 28 12	-21 17.3	8	2.7		-1.4(.4)						203	-67	00+20+200
4199S	2 28 17	49 58.8	25	3.0	1.4(.4)				50066		DO 25844	139	-10	001000000
4200S	2 29 6	35 55.8	19	2.5	1.3(.4)				40043	736	14 TRI	145	-22	001000000
343S	2 30 1	-26 50.0	9	2.7		-.6(.4)	-3.5(.5)					217	-68	000?06400
344S	2 30 18	-0 18.6	11	2.6			-2.5(.4)				IC 0236	169	-54	004407007
46S	2 30 20	-16 54.9	7	2.3	1.6(.4)		-4.6(.5)		-20034			194	-64	00+101400
4201S	2 30 29	-70 39.9	46	3.6		-2.0(.4)						292	-44	000000020
4202S	2 30 31	-5 42.8	14	4.1	1.5(.3)							176	-58	00?107000
4203S	2 31 21	67 44.7	23	2.8	1.8(.4)				70036		DO 25906	132	7	0??117?00
4204S	2 31 49	-3 49.0	14	4.1	1.5(.3)							174	-56	00?107000
4205S	2 31 51	22 14.0	17	2.5	1.8(.4)				20046		DO 9403	152	-34	001000000
4206S	2 31 59	-34 48.8	16	3.8	*		-3.6(.4)				SVS 231	238	-67	000004?00
4207S	2 32 54	37 5.4	19	2.6	1.8(.3)				40045	748	DO 9405	145	-21	001000000
4208S	2 33 10	5 22.6	16	3.1	1.7(.4)				10030	754	NUU CET	164	-49	00100?000
4209S	2 33 27	65 30.2	37	3.4	1.5(.4)				70037	747	GC 3125	134	5	0?1007?00
356S	2 34 11	27 29.2	18	2.1			-3.0(.4)					150	-30	004000600
4210S	2 34 31	56 48.4	30	3.6	.9(.4)				60093		YZ PER	137	-3	00+001000

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′ ″	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
4211S	2 34 33	-36 1.7	8	2.7	1.3(.4)		-3.6(.4)		-30019E				241	-66	00?004100
4212S	2 35 3	-3 0.0	14	4.1	1.3(.3)								174	-55	00?10+000
4213S	2 35 4	64 47.8	21	3.7		-1.5(.5)	-3.4(.5)						134	4	02+00?600
4214S	2 35 32	27 18.3	16	2.1	1.7(.4)				30045		DO 9441		150	-30	001000000
350S	2 35 43	-9 47.8	10	2.8		-1.2(.4)					NGC 1018		183	-59	00?202007
4215S	2 35 45	-14 37 2	9	2.2		-1.0(.4)							191	-62	00?20+?00
362S	2 36 30	55 45.3	30	3.6	1.4(.3)								138	-4	00?001000
368S	2 38 16	62 3.3	17	2.1	1.6(.4)	-.9(.4)							135	2	02100?300
4216S	2 38 36	-40 3.9	10	3.8	1.2(.4)				-40017E	794	IOT ERI		249	-64	00007?100
4217S	2 38 49	34 17.8	19	2.5	.9(.3)				30047		W TRI		147	-23	001000000
4218S	2 39 34	-26 15.3	7	2.7	1.8(.4)						W FOR		217	-65	00?107100
4219S	2 39 45	-22 50.3	11	3.9	1.5(.4)				-20036		AT CET		209	-65	00?107?00
370S	2 40 1	-23 50.7	9	2.7	1.5(.3)								211	-65	00+101?00
4220S	2 40 18	-0 12.4	16	3.4			-2.7(.4)				NGC 1068	R	172	-52	004?0?007
4221S	2 41 0	17 19.8	17	3.4	.9(.4)				20048		DO 9496		157	-38	00+001000
4222S	2 43 0	-1 29.7	8	2.0	1.3(.3)	-2.4(.5)							174	-52	00+30+002
4223S	2 43 8	71 41.9	42	4.1	1.8(.5)				70038		DO 26139		132	11	0?11??00
4224S	2 43 11	-11 15.7	12	4.0	1.5(.5)				-10039				193	-60	00??07100
374S	2 43 50	-20 16.2	9	2.7		-1.0(.4)	-3.2(.5)						222	-65	00?206?00
4225S	2 44 23	-17 10.1	16	3.6	1.5(.3)								198	-62	001+0??00
4226S	2 46 18	-19 17.3	16	3.6	1.4(.3)								203	-62	001+0??00
4227S	2 46 22	-4 29.0	13	4.1	1.6(.4)				34		DO 480		179	-54	00?107000
4228S	2 46 59	51 51.3	27	3.3	1.4(.4)				50075		DO 26264		141	-7	00?001C00
4229S	2 47 29	-15 52 0	11	3.9	1.6(.3)							EO	196	-60	00?107?00
368S	2 49 4	47 16.8	24	3.3	1.4(.3)								143	-11	001007000
4230S	2 49 12	-41 9.5	11	3.8	1.7(.5)		-3.6(.5)		-40019E		GC 3436		250	-62	00?000500
391S	2 49 48	27 43.2	16	2.1	1.4(.3)								153	-28	001000000
4231S	2 51 5	52 31.7	27	3.4	1.6(.4)				50077	854	TAU PER		141	-8	001007000
4232S	2 52 55	57 22.3	30	3.5	1.4(.3)				60106		DO 26429		139	-1	001007000
4233S	2 53 0	51 5.7	26	3.3	1.7(.4)				50079	864	DO 26438		142	-7	001007000
402S	2 53 32	55 44.7	29	3.5			-2.9(.4)						140	-3	004007000
4234S	2 53 47	-6 17.0	8	2.2	1.6(.4)	-1.3(.5)	-3.1(.4)		-10042				183	-54	004102007
4235S	2 55 16	-12 13.8	10	2.8			-3.7(.5)						192	-57	00??02404
4236S	2 55 51	-23 51.5	12	4.0	1.6(.5)				-20038	889	6 ERI		213	-61	00??07100
4237S	2 55 57	35 .1	19	2.7	1.1(.4)				30054	882	24 PER		150	-21	001007000
4238S	2 56 45	29 38.3	17	1.7	1.2(.3)				30055			R	154	-25	001007000
4239S	2 57 54	10 39.8	17	3.2	1.9(.4)				10031	908	DO 498		167	-41	001007000
4240S	2 58 8	-13 8.5	11	4.0	1.8(.3)							EO	194	-57	00?107?00
415S	2 59 19	-18 33.0	8	2.8	.8(.4)	-.5(.4)							200	-58	00?20+107
417S	2 59 33	10 25.2	17	2.8			-3.2(.4)						163	-36	004007000
4241S	2 59 45	-5 8.3	12	4.1	1.6(.3)								183	-52	00?107000
421S	3 0 6	-22 58.4	9	2.7			-3.1(.5)				NGC 1187		212	-60	004007?00
422S	3 0 9	43 41.4	21	2.6	1.7(.4)		-3.3(.4)						147	-13	00?005000
423S	3 0 12	-9 16.5	9	2.7	1.0(.3)	-1.6(.4)					NGC 1185		189	-54	00?201007
4242S	3 0 13	-7 54.2	16	3.7	1.6(.3)						SVS 102400		187	-53	001?07000
424S	3 0 36	38 44.5	20	2.5	.8(.3)						DO 9696	R	149	-17	00100+000
4243S	3 1 23	35 40.7	13	1.8	1.6(.4)				40053		DO 9709		151	-20	001001000
426S	3 1 33	31 18.3	9	2.3			-3.8(.4)						154	-23	000004000
4244S	3 1 39	-15 24.0	11	3.9	1.7(.4)		-2.9(.5)						199	-37	00?007?07
4245S	3 1 51	-12 59.4	15	3.6		-1.3(.4)							195	-56	00?702?07

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′	EA S	ED ′	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
4246S	3 2 22	-26 .8	15	3.7	1.3(.3)								218	-60	00?+07?00
4247S	3 3 16	74 31.8	54	3.7			-2.9(.4)						132	14	0?4???00
4248S	3 3 44	11 29.1	16	2.4	1.1(.4)				10037		DO 507		168	-39	001007000
4249S	3 3 45	60 19.1	26	4.1	1.3(.4)				60111		SVS 100256		139	2	007007100
4388	3 3 56	31 12.8	18	2.6			-3.6(.4)						154	-23	000004000
4384	3 3 59	38 45.6	19	2.2	1.3(.3)	-1.3(.4)							150	-17	007003000
4250S	3 4 8	66 11.6	28	3.8	1.4(.3)								136	7	07+017?00
4251S	3 5 5	-11 10.2	16	3.7	1.4(.3)								193	-54	001?07?00
4455	3 5 34	-24 13.5	8	2.8	1.5(.3)								215	-53	007107100
4252S	3 6 24	-26 36.1	16	3.7	1.6(.4)				-30027			EO	220	-59	007?01?00
4253S	3 8 6	39 25.1	19	2.2	1.8(.4)				40058	947	OME PER		150	-16	000001000
4254S	3 8 11	37 52.8	18	2.1	1.7(.5)				40059		DO 9774		151	-17	000001000
4255S	3 8 19	-21 53.3	10	3.8	1.5(.3)							R	211	-58	007107?00
4568	3 8 37	-43 51.7	13	3.9	1.0(.4)								253	-58	000000100
4256S	3 8 44	-4 1.0	10	2.7	1.0(.3)	-.1(.4)			40	955	GC 3806		184	-49	00210+00?
4257S	3 9 3	-23 56.0	12	3.9	1.5(.4)				-20039		TW ERI		215	-58	007?07100
4598	3 9 12	23 31.9	18	3.1	1.3(.3)								160		000001000
4258S	3 9 33	55 31.2	20	2.4	1.5(.4)	-.3(.4)			60115		GH PER		142	-4	000001000
4005	3 9 44	65 23.8	23	2.7	1.5(.4)				70041		DO 26795		137	7	07107?100
4259S	3 10 1	-29 51.3	9	3.8	1.6(.3)								226	-59	007107?00
4625	3 10 35	47 6.6	23	2.7	1.6(.3)								147	-9	007001000
4260S	3 11 29	54 42.0	28	3.1	1.3(.4)				50089		SVS 6015		143	-2	007001000
4261S	3 12 26	1 25.6	17	3.7	1.3(.4)				42		DO 533		179	-45	001007000
4262S	3 12 4?	1 31.6	16	3.5	1.3(.4)				43		DO 534		179	-45	007001000
4665	3 12 50	-25 44.3	11	2.6			-4.0(.4)						218	-58	004+04?00
4263S	3 12 58	-30 48.3	9	3.8	1.7(.4)						IC 1904,EO		228	-59	00+100?00
4695	3 13 5	-23 47.4	11	2.6	1.4(.3)		-3.4(.4)						215	-57	001+04?00
4264S	3 13 18	-24 34.6	10	3.8	1.6(.3)								216	-58	007107?00
4265S	3 13 49	-5 54.6	16	3.7	1.4(.4)				-10046		GC 3911		188	-49	001?07?00
4705	3 13 54	-8 45.8	10	2.8	1.5(.4)		-4.0(.5)						191	-51	00?+0150+
4266S	3 14 12	-76 50.8	64	3.8		-1.9(.4)							293	-38	000000020
4267S	3 15 32	34 3.7	18	2.5	1.0(.3)				30058	991	GC 3948		155	-19	000001000
4268S	3 16 35	32 57.2	18	2.5	1.0(.4)				30060		TW PER		155	-20	000001000
4736	3 17 1	70 32.7	24	2.2	1.8(.5)		-3.5(.5)				SVS 284		135	11	041???400
4269S	3 17 21	-17 21.4	11	2.5	1.6(.3)		-3.4(.6)						205	-54	001?07?04
4785	3 17 54	31 46.1	18	2.6	1.4(.3)						DO 9877		156	-21	000001000
4805	3 18 17	-7 35.9	9	2.7	1.9(.4)		-3.6(.4)				NGC 1303		191	-50	007104007
4270S	3 18 26	-15 29.8	15	3.8	1.5(.3)		-2.9(.4)						202	-53	007?05?07
4271S	3 19 2	74 51.9	37	3.9	1.6(.4)				70042		DO 26985		132	15	07?17?700
4272S	3 19 24	-27 45.1	7	2.2			-3.2(.6)				SVS 295		223	-57	007404007
4645	3 19 50	29 26.0	18	2.8	1.2(.3)							R	158	-23	000001000
4273S	3 21 12	3 44.0	15	2.8	1.8(.4)				45		DO 566		179	-42	001007000
4274S	3 21 15	11 42.1	17	3.4	1.6(.4)				10043		DO 567		171	-36	000001000
4275S	3 22 51	-0 52.4	16	3.8	1.8(.3)							EO	184	-45	001007000
4276S	3 23 45	74 16.9	51	3.8			-3.0(.4)						133	15	07+???700
4277S	3 24 13	60 32.1	31	3.8	1.6(.3)								141	3	001007?00
4278S	3 25 12	-10 1.9	10	3.9	1.5(.3)							EO	195	-49	007107?00
4279S	3 25 32	48 34.6	25	3.8	1.4(.4)				50097		DO 27156		148	-6	001007000
4280S	3 25 55	58 44.5	28	4.1	1.7(.5)				60120	1040	GC 4140,EO		142	2	007007100
4281S	3 28 24	-14 25.9	9	3.8	1.7(.3)							P	202	-51	007107?00

TABLE OF OBSERVATIONS

GL	RA(1950)	DEC(1950)	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II	B II	OBS. LOG
	H M S	° '	S '									°	°	
4282S	3 29 5	60 40.5	31 3.9		*	-.9(.4)						141	4	002003?00
4283S	3 30 21	-25 49.0	9 3.7		1 8(.4)				-30029		RZ FOR	220	-54	00?10?700
4284S	3 31 12	-15 28.5	9 3.8		1 7(.3)							204	-51	00?13?700
4285S	3 31 56	63 1 7	32 4.1		1 3(.4)							140	6	00?00?100
4286S	3 34 30	-19 11.5	8 3.7		1.8(.3)							210	-51	00?10?700
502S	3 34 37	-6 51.2	11 2.7				-4.2(.5)				IC 0337	193	-46	00?+04400
4287S	3 35 36	-16 39.7	15 4.0		1.4(.3)							206	-50	00?07?700
4288S	3 36 26	24 49.6	18 2.9		1.4(.4)						HP TAU	165	-24	000001000
504S	3 37 11	61 35.4	22 2.9		1 5(.4)				60123		DO 27390	142	5	001007100
4289S	3 38 0	89 29.9	829 3.7		1.7(.3)							123	27	??01??700
4290S	3 38 15	59 49.7	30 3.9		1.3(.4)				60126	1112	GC 4408	143	4	00?00?700
4291S	3 39 10	36 20.6	19 2.3		1.0(.4)				40066		AF PER	157	-15	00?001000
4292S	3 41 14	-32 54.7	12 2.5				-3.9(.4)					232	-53	004+00?04
4293S	3 43 11	-16 21.2	16 3.5			-1.1(.4)	-3.3(.4)					207	-48	00?0?700
4294S	3 44 34	59 26.2	31 2.8		1 7(.4)				60128			144	4	00?001?00
4295S	3 45 11	24 50.4	18 2.9		1 9(.4)				20064		SVS 100325	166	-23	00?001000
4296S	3 46 33	65 7 8	34 4.0		1.2(.3)							140	9	00?0?+?00
4297S	3 47 9	42 28 2	20 2.0		.8(.4)				40069		DO 27623	155	-9	00?00?000
4298S	3 48 23	63 52 5	33 4.0		1.8(.5)				60130		SVS 350	141	8	00?00?100
4299S	3 48 56	-1 31.5	15 3.3		*	-1.7(.4)			50		SU ERI,EO	190	-40	00?00?000
4300S	3 49 56	-40 17 1	11 2 2		1.3(.4)	-2 6(.4)			-40027E			244	-51	00?000300
4301S	3 50 12	60 47 2	22 2.6		1.3(.4)							143	6	00?00?100
4302S	3 51 28	24 33 2	17 2 7		1.7(.4)						V401 TAU	167	-22	00?001000
503S	3 51 44	-17 29 5	6 2 7		1.7(.3)							210	-47	00?10?100
4303S	3 52 39	53 7.5	26 3.9		1.7(.4)						SHARP 205	149	-0	00?0?+?00
4304S	3 52 43	-15 2 4	8 3 6		1.5(.3)		-3.2(.4)		-20046		RU ERI	207	-46	00?00?700
4305S	3 53 10	-24 9 8	7 3 6		1.5(.4)				-20047		T ERI	219	-49	00?10?700
533S	3 53 56	-34 24.9	8 2.6		1.2(.3)		-4.0(.4)					235	-50	00?40?0?0
535S	3 54 27	12 56.2	16 3.1				-3.5(.4)					177	-30	000004000
4306S	3 56 0	1 52 6	16 3.2		1.6(.4)				10051		DO 670	179	-31	000?01000
4307S	3 57 13	55 8 5	29 4.0		1.1(.4)	-1.0(.4)			60136		AG CAM,EO	148	2	00+00+000
4308S	3 57 36	-6 28.5	15 3.3		1.5(.4)				-10057			197	-41	00?01?00
4309S	3 58 13	-16 7.3	8 3.7		1.4(.3)							209	-45	00?10?700
4310S	3 59 50	-6 3 5	9 3.7		.9(.3)							197	-40	000?0?+00
4311S	3 59 51	-13 53.1	9 2 8		1.9(.3)		-2.7(.5)				HZ ERI	206	-44	00?50?700
4312S	4 0 18	-10 54.6	15 3.4		*		-3.8(.4)					202	-42	00 ?04?00
4313S	4 0 39	-10 47.5	15 3 4		*		-3.9(.4)					202	-42	00?04?00
4314S	4 1 8	-20 48 2	14 4.0		1.5(.3)	- 6(.4)						215	-46	003+00?07
4315S	4 1 8	-7 7.1	15 3.3		1 9(.4)				-10056			198	-40	00?01?00
4316S	4 1 10	61 38.7	27 3.7		1 2(.4)				60138		UV CAM	144	7	00+01?700
534S	4 1 15	-33 52.0	7 2.2			-1.7(.4)	-4.0(.4)					234	-49	00420040+
4317S	4 1 33	-25 58.2	8 3.7		2 2(.5)				-30032		GC 4889	223	-47	00?100?00
4318S	4 1 47	12 21.7	15 3.1		1 3(.3)				10053		DO 690	179	-29	000001000
4319S	4 1 47	26 4.4	18 2.7		1.6(.4)				30070		DO 10256	168	-19	000001000
544S	4 4 0	23 39.7	17 2.8				-2.9(.4)					170	-21	000?04000
4320S	4 4 38	-7 51.1	15 3.9		2.1(.5)				-10060		RV ERI	200	-40	00?02?100
4321S	4 4 46	55 5 0	26 4.1		1.3(.3)				60139		DC 27974	149	2	00?00?700
4322S	4 5 47	10 .2	16 3.2		1.5(.4)				10054		DO 704	182	-29	000001000
547S	4 6 19	-38 7.5	16 3.8		*	-1.7(.4)						241	-48	00?000207
4323S	4 8 2	-34 42.0	14 3.9		1.8(.4)				-30027E		GC 5030	236	-47	001?00?00

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° '	EA S	ED '	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
4324S	4 9 52	-9 56 8	10	3.8	1.8(.3)								203	-40	00?10??00
4325S	4 9 57	-4 34.0	16	4.0	2.0(.4)				54		DO 724		197	-37	00?0?100
4326S	4 10 26	-23 58.3	8	3.7	1.7(.4)				-20050		GC 5082		220	-45	00?100?00
4327S	4 10 48	-4 4.6	2	3.6	2.2(.4)				56		DO 727		196	-37	000102?00
4328S	4 11 56	-10 22.7	9	2.5	1.8(.5)		-3.3(.4)		-10063	1318	39 ERI		204	-39	00?104?00
4329S	4 12 25	-42 24.4	13	2.5	1.7(.4)			-8.1(.8)	-40030E	1326	ALF HOR		247	-46	000000101
4330S	4 12 48	-7 42 3	15	3.3	1.8(.4)				-10064	1325	OMI2 ERI		201	-38	000?01?00
557S	4 13 1	-13 21.7	11	2.6		-.7(.4)	-3.5(.5)				IC 2047		207	-11	00??04200
4331S	4 13 10	50 43.7	17	2.1	1.7(.5)	-.7(.4)			50116		GC 5151		152	0	000002100
4332S	4 14 6	-28 30 0	13	3.9	1.7(.3)								227	-45	001?0?00
4333S	4 14 19	42 37.1	20	2.0	1.4(.4)				40081		DO 28164		158	-6	000001000
4334S	4 14 22	49 43 3	25	3.7	1.4(.5)				50117		SVS 100378		153	-0	000007100
4335S	4 15 20	54 42.9	25	4.1	1.5(.3)								150	3	00100??00
4336S	4 16 39	37 6.4	19	2.3	1.4(.4)				40084		DO 10410		162	-9	000001000
4337S	4 18 17	-17 .4	14	4.1	1.5(.5)				-20055		DG ERI		212	-41	001?0?00
4338S	4 18 43	80 42.0	57	3.8	1.8(.5)				80010	1317	GC 5265		131	27	07?12??00
4339S	4 19 43	36 6.8	19	2.4	1.5(.4)				40086		GQ PER		164	-9	000001000
4340S	4 19 49	17 26.8	17	3.0	1.3(.4)				20076	1373	DEL TAU		178	-22	000001000
4341S	4 20 1	-5 34.6	15	3.2	1.6(.4)				-10066		RW ERI		199	-35	000?01?00
4342S	4 20 23	62 47.9	28	4.0			-3.1(.4)						145	9	0040??00
4343S	4 20 30	-12 43.6	16	3.9	1.6(.4)						IC 0368		207	-39	00??07100
575S	4 20 46	73 12.5	31	2.7			-2.8(.4)						137	17	0?+44??00
578S	4 21 40	-27 55.3	7	2.2	1.4(.4)	-1.5(.4)			-30034		DH ERI		227	-43	002100107
4344S	4 22 15	57 48.4	26	4.1	1.4(.3)							R	148	6	001007?00
4345S	4 25 29	19 5.7	17	3.0	1.0(.4)				20080	1409	EPS TAU	R	178	-20	000001000
580S	4 25 42	-5 13.8	10	2.7	1.3(.4)						NGC 1580		200	-34	00010?100
4346S	4 26 4	-29 23.8	15	3.8	1.7(.5)				-30035				229	-43	00??00100
4347S	4 26 11	64 17.4	29	4.0	1.6(.4)				60142		RY CAM		144	11	001007?00
4348S	4 26 27	45 50.4	21	2.0	1.0(.3)				50119		DO 28355		158	-2	000001?00
584S	4 26 51	5 5.0	11	2.4	1.1(.4)				10062		DO 787		190	-28	000001100
4349S	4 27 18	16 3.6	16	2.8	1.6(.4)				20083		DO 10526		180	-22	000001000
4350S	4 29 0	15 1.6	16	2.9	1.2(.4)				10063		DO 10536		181	-22	000001000
4351S	4 29 26	52 41.9	24	1.7	1.2(.4)				50120		DO 28376		153	3	000001?00
4352S	4 29 49	-20 46.8	10	3.8	1.8(.4)				-20058		GC 5538	R	218	-40	00?100?00
4353S	4 31 8	-0 4.5	16	3.8	1.1(.4)				62		BD ERI		196	-30	000007100
596S	4 31 26	-29 50.3	9	2.1	1.7(.4)	-1.1(.4)			-30036	1453	UPSI ERI		230	-42	00?+00?00
4354S	4 31 50	29 38.2	18	2.7	1.1(.4)				30089		EZ TAU		170	-12	000001000
4355S	4 35 18	-24 23.4	13	4.0	1.3(.3)								223	-39	00?+00?00
611S	4 36 0	59 58.7	21	2.6		-1.5(.4)	-3.7(.5)						148	9	00+00+400
4356S	4 36 5	41 32.8	12	2.5	1.0(.4)						AV PER		162	-3	00000+100
4357S	4 36 16	-20 29.0	10	3.9	1.7(.3)								218	-38	00?100?00
4358S	4 37 10	-33 0.0	10	3.8	1.0(.3)								234	-41	00?10?00
4359S	4 37 56	40 5.8	21	3.0	1.3(.5)				40095		HO PER		163	-4	000007100
4360S	4 38 47	79 3.7	49	2.3			-3.4(.4)						133	21	0???47?00
4361S	4 38 47	-20 5.8	12	4.0	1.7(.3)								218	-37	001?00?00
4362S	4 39 34	-32 35.8	10	3.8		-1.6(.4)							234	-40	00?200+0?
4363S	4 39 36	-24 7.6	15	3.7	1.5(.4)				-20060				223	-38	00?+00100
4364S	4 39 46	-27 28.5	10	3.8	1.5(.3)	-1.1(.4)							227	-39	00?300+00
4365_	4 40 4	48 37.5	25	3.4	1.7(.5)				50125		SVS 431		157	2	000007100
4368S	4 40 58	25 16.1	17	2.6	.6(.3)				30092		DO 10700		175	-13	000001000

TABLE OF OBSERVATIONS

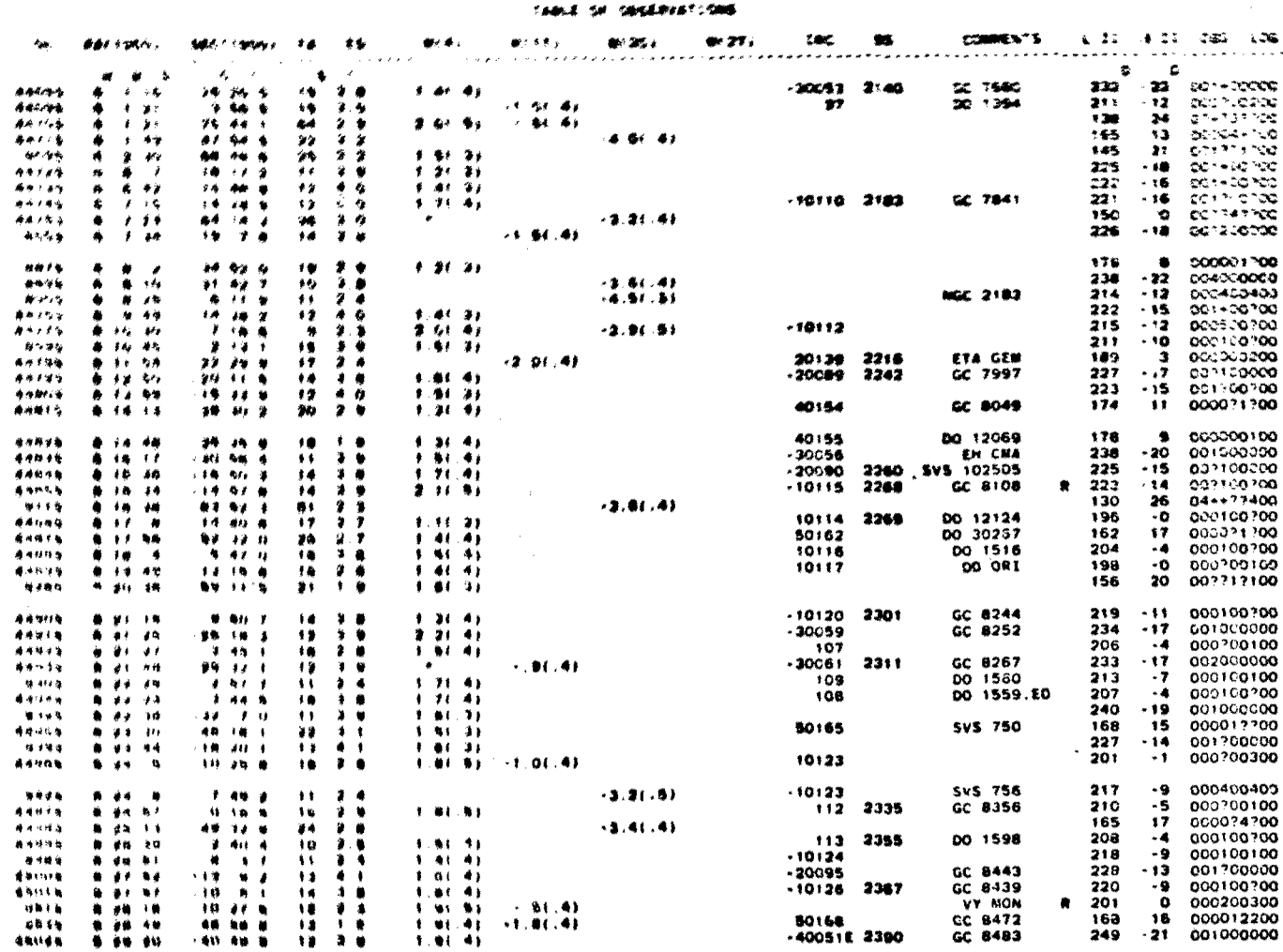
GL	RA(1950) H M S	DEC(1950) ° ′	EA	EO	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
4367S	4 41 16	-30 50.9	10	3.8	1.5(.4)				-30040	1509	GC 5762		232	-40	00?100?00
4368S	4 41 34	11 36.0	18	3.0	.9(.4)				10069		DO 844		186	-21	000001+00
625S	4 41 49	-8 23.4	12	4.0	1.8(.4)	-.7(.4)							206	-32	000302?00
4369S	4 42 20	-17 50.2	10	3.9	2.0(.3)								216	-36	00?100?00
4370S	4 42 26	-2 41.4	10	2.8	1.9(.3)	-1.9(.4)			83		DO 852		200	-29	000102+00
4371S	4 42 52	-21 24.7	12	4.0	1.5(.4)				-20061	1521	GC 5794		220	-37	001+00?00
630S	4 43 22	14 58.0	12	2.1		-1.2(.4)	-5.0(.5)						184	-19	000002600
4372S	4 43 29	-30 44.8	10	3.8	1.7(.4)		-3.3(.4)						232	-33	00?500?00
4373S	4 43 32	35 45.1	19	2.8	1.5(.5)				40098		DO 10735		167	-6	000007+00
4374S	4 43 51	-26 30.3	8	2.0	1.4(.3)								226	-38	00?100?00
4375S	4 43 54	25 30.9	17	2.8	1.6(.5)				30094		DO 10739		175	-13	000001?00
631S	4 43 56	14 47.8	16	2.9	1.2(.3)								184	-19	000001?00
4376S	4 45 45	-36 17.6	11	2.8	1.2(.4)			-8.8(.8)	-30037E		T CAE		239	-40	00+000?01
4377S	4 45 52	-5 26.3	10	2.9	1.7(.3)						IC 2094		203	-30	000100?00
4378S	4 46 22	31 22.4	17	3.2	1.5(.4)				30096	1529	GC 5853		171	-8	000007100
4379S	4 47 14	28 1.8	18	2.8	1.7(.4)				30097		DO 10784		174	-10	000001?00
4380S	4 47 23	6 50.1	17	3.5	1.7(.5)				10071	1543	PI3 ORI		192	-23	000007100
4381S	4 47 38	52 8.6	24	2.0	1.7(.4)				50129		DO 28671		155	5	000001?00
4382S	4 47 44	68 51.5	38	4.1			-2.6(.5)				SVS 100407.EO		142	16	0??4??00
637S	4 48 1	8 49.4	17	3.4	1.4(.4)								190	-22	000007100
641S	4 49 1	-4 58.7	10	2.5	1.8(.4)						IC 2100		203	-29	000?00100
4383S	4 49 13	28 53.8	17	2.1	1.7(.4)				30099		SVS 445		173	-10	000007100
4384S	4 49 28	36 36.6	14	1.8	1.1(.4)		-3.8(.6)		40102	1551	2 AUR		167	-5	000001400
4385S	4 50 32	49 49.2	26	3.3	1.8(.5)				50130		AU AUR		157	4	000007100
648S	4 50 39	38 9.0	20	2.5			-2.9(.4)						166	-3	000004?00
4386S	4 50 51	-22 5.7	12	3.9	1.4(.3)							R	222	-35	001+00?00
4387S	4 51 17	69 17.1	41	3.5	"		-3.5(.4)						142	16	0??4??00
655S	4 54 17	48 28.2	17	1.9	1.3(.4)				50132		TV AUR		159	4	000001100
657S	4 55 21	-34 23.2	11	3.8	"	-2.5(.4)							237	-37	002003+07
668S	4 57 26	32 43.8	13	1.7	1.8(.4)								171	-6	000001100
670S	4 58 19	43 46.3	15	1.9	1.1(.4)				40109	1608	EPS AUR		163	1	000001100
673S	4 59 10	-1 55.9	16	3.3	1.7(.4)								201	-25	000?00100
4388S	4 59 43	-26 16.8	10	2.8	1.6(.5)		-3.2(.5)		-30041	1628	GC 6160		227	-35	00?400100
677S	5 0 24	9 17.1	16	3.1	.7(.4)								191	-19	000007100
4389S	5 0 48	-22 54.3	18	3.5	1.8(.5)				-20065	1634	1 LEP		224	-33	00?700100
679S	5 2 27	21 35.0	17	2.8	1.5(.3)								181	-12	000001?00
4390S	5 2 32	-35 35.5	11	3.8	.8(.3)				-30041E	1662	GAM CAE		239	-36	001000?00
684S	5 2 51	38 39.2	14	1.7	2.0(.4)				40112		DO 11024		167	-1	000001100
4391S	5 3 58	0 28.0	16	3.4	1.2(.4)	-1.2(.4)			67		V430 ORI		200	-23	000000300
4392S	5 5 39	38 55.9	20	2.4	"		-3.4(.5)		40115		TX AUR.EO		167	-1	000004?00
698S	5 6 19	79 41.3	61	2.0	1.7(.4)	-.9(.4)	-3.4(.4)						133	23	0++??4?00
4393S	5 6 34	-24 53.2	8	2.1		-1.5(.4)							226	-33	00?200+00
4394S	5 6 56	-8 52.6	10	2.7	2.0(.4)		-3.1(.6)				SVS 100453		209	-27	003100500
4395S	5 7 2	37 14.3	19	2.4	1.7(.4)				40117	1669	DO 11078	R	169	-1	000001?00
701S	5 7 50	-12 18.7	13	4.0	1.8(.3)							R	213	-28	000100?00
4396S	5 8 43	15 58.5	17	2.8	1.4(.4)				20102	1684	GC 6350		187	-14	000007100
703S	5 9 4	38 35.6	20	2.5	.4(.4)						DO 11105		168	-0	00000+100
4397S	5 9 24	80 48.9	98	3.3		-1.1(.4)						EO	132	23	0????2?00
705S	5 10 7	-8 8.0	16	3.4		-1.1(.4)							209	-26	000?00200
4398S	5 11 7	-27 9.8	12	3.9	2.0(.4)				-30042		GC 6389		229	-32	00?100?00

TABLE OF OBSERVATIONS

GL	RA(1950)	DEC(1950)	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II	B II	OBS. LOG
	H M S	° '	S '									°	°	
4399S	5 11 27	77 9.2	56 4.0		1.3(.3)							136	22	0??1??700
712S	5 12 57	45 31.1	22 2.2		1.4(.4)	-.5(.4)						163	4	000003?00
4400S	5 13 26	47 24.2	23 2.8		1.3(.4)				50140		DO 29110	161	5	000007100
718S	5 14 1	51 22.2	26 2.9		1.0(.4)						DO 29113	159	8	000004100
719S	5 14 26	27 13.5	17 2.2		.6(.4)							170	-6	000007100
726S	5 15 26	-25 45.8	8 2.7		1.4(.3)		-2.9(.4)					228	-31	004100?00
727S	5 15 45	43 15.7	21 2.3		1.4(.3)						DO 29147	165	3	000001?00
4401S	5 15 54	35 44.1	18 2.0		1.4(.4)				40120		SVS 6165	171	-1	00000+100
4402S	5 16 18	-49 11.6	23 3.5				-4.1(.6)					256	-35	000000004
4403S	5 17 26	-33 46.6	9 3.7		1.1(.4)				-30045E		T COL	237	-33	001000000
4404S	5 18 25	7 19.4	16 3.1		1.6(.5)	-1.1(.4)			10083		DO 1065	195	-16	000000300
4405S	5 18 29	73 40.3	36 3.9		1.0(.3)	-1.1(.4)	*		70061		DO 29148	139	20	03++++?00
4406S	5 19 14	60 38.1	32 3.0		1.0(.4)				60156		DO 29181	151	14	00+0++100
4407S	5 19 22	46 57.2	23 2.7		1.6(.4)				50142		DO 29204	162	6	000007100
736S	5 19 48	-8 42.6	10 2.8		1.6(.4)				-10086		GC 6602	211	-24	000100100
4408S	5 19 50	50 10.4	24 2.2		1.4(.4)				50143		DO 29202	160	8	000001?00
737S	5 21 8	20 14.3	17 2.9		1.2(.3)							185	-9	000001?00
741S	5 22 7	33 53.2	17 1.9		.6(.4)							173	-1	000007100
4409S	5 22 21	1 9.8	15 4.2		1.4(.4)				73		DO 1094	202	-19	000100?00
742S	5 22 42	-0 18.3	11 2.6		1.6(.4)						BRIGHT NEB	203	-19	000100100
4410S	5 22 50	-10 23.4	18 3.4		1.4(.4)				-10092	1799	GC 6672	213	-24	000?00100
4411S	5 22 52	50 4.2	25 2.8		1.5(.4)				50144		AC AUR	160	8	000007100
4412S	5 23 16	20 33.8	12 1.9		*		-3.7(.5)				SVS 565	185	-8	000004400
4413S	5 23 23	-29 49.3	12 3.9		1.4(.3)							233	-31	007100?00
4414S	5 23 26	32 .2	17 1.3		1.8(.4)				30113		EG AUR	175	-2	000007100
745S	5 23 39	-33 34.4	9 3.7		*		-3.8(.4)					237	-32	004000300
747S	5 23 46	36 50.9	13 1.6		1.7(.4)				40127		W AUR	171	1	000001100
4415S	5 24 13	34 24.6	18 1.9		1.6(.4)				30116	1805	PHI AUR	173	-0	000007100
4416S	5 26 4	0 3.7	15 4.1			-.2(.4)					BRIGHT NEB	203	-18	000200?00
4417S	5 27 13	31 29.1	18 2.7		1.9(.4)				30118		DO 113G4	176	-1	000001?00
760S	5 27 34	15 6.3	16 3.0		*		-3.9(.4)					190	-10	000004?00
4418S	5 27 54	-42 39.5	11 2.6				-3.8(.5)					248	-33	004000004
4419S	5 29 28	-6 55.8	10 2.6			-.5(.4)					V689 ORI	210	-21	000200200
765S	5 29 13	-12 24.8	10 2.6		1.7(.3)	-1.6(.4)						215	-23	000100200
4420S	5 30 8	-6 17.7	14 4.0			-.3(.4)					BRIGHT NEB	210	-20	000200?00
4421S	5 30 29	41 4.5	20 2.2		1.4(.4)				40133		SVS 100502	168	4	000007100
4422S	5 31 0	-25 23.2	12 3.9		1.8(.4)				-30045			229	-28	007100?00
772S	5 31 13	-5 19.3	10 2.6			-.7(.4)					V468 ORI	209	-20	000200200
4423S	5 31 22	60 33.7	31 2.0		1.2(.3)							152	15	00?0?1?00
4424S	5 31 40	-1 30.9	16 3.2		1.6(.4)				78	1874	GC 6894	205	-18	000?00100
774S	5 31 53	54 54.1	19 1.7		1.8(.4)				50147		DO 29442	157	12	000001100
4425S	5 32 29	-6 9.2	14 4.0				-4.0(.4)				V788 ORI.EO	210	-20	000400+00
783S	5 32 52	-5 8.5	14 4.0		1.7(.3)						V415 ORI R	209	-19	000100?00
784S	5 33 1	20 58.3	17 2.9		1.0(.3)							186	-6	000001?00
4426S	5 33 36	75 2.6	35 2.5		2.0(.4)	-1.1(.5)			80011	1844	SVS 100501	138	22	02??1??00
4427S	5 33 39	-3 50.3	10 2.4		1.2(.3,						HFE 7	208	-18	000100?00
4428S	5 33 41	-1 14.8	15 4.1		1.3(.3)				79	1903	EPS ORI R	205	-17	000100?00
4429S	5 33 46	-25 45.7	17 3.4		1.8(.4)				-30048			229	-27	007?00100
4430S	5 34 14	9 16.0	16 2.9		1.3(.4)				10091	1907	PHI2 ORI	196	-12	000000100
4431S	5 34 26	-44 9.2	8 3.6		1.7(.4)				-40041E			250	-32	001000000

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′	EA S	ED ′	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
4432S	5 35 11	21 54.8	17	2.5	1.6(.4)				20114		DO 11422		185	-5	0000?7100
4433S	5 36 29	-7 20.1	14	4.0		.2(.4)					V599 ORI		211	-19	0002?0?00
4434S	5 37 14	65 40.5	26	2.3	2.0(.4)	-.0(.5)			70065	1916	GC 7058		147	18	0021?2?00
4435S	5 37 15	51 36.5	25	2.5	1.5(.4)				50150		DO 29533		160	11	0000??100
4436S	5 37 59	-34 8.1	8	3.6	1.3(.4)				-30052E	1958	ALF COL		239	-29	001000000
4437S	5 38 58	-27 55.4	9	3.6	1.4(.4)				-30048				232	-27	001+00000
803S	5 39 19	-20 47.6	10	2.6	1.5(.4)				-20076				225	-24	00?100100
4438S	5 39 21	14 47.7	16	2.7	1.1(.4)				10095		FX ORI		192	-8	0000?0100
4439S	5 39 37	21 58.4	17	2.4	1.7(.5)	-1.0(.4)					DZ TAU		186	-4	0000?07300
4440S	5 39 40	1 29.4	15	4.1	1.4(.4)				83	1963	51 ORI		203	-15	0001007?00
810S	5 40 45	-23 47.6	9	2.5	1.0(.4)		-3.0(.4)		-20077		RT LEP		228	-25	004+00100
4441S	5 41 8	64 45.4	37	4.1	.9(.3)				60158		DO 20598		148	18	00+1+?+00
4442S	5 41 29	-33 27.9	8	3.7	1.3(.4)				-30053E		GC 7167		238	-28	0010000?00
4443S	5 42 2	37 39.9	20	2.7	1.7(.5)				40139		DO 11538	R	173	5	0000011?00
4444S	5 42 23	-22 24.4	9	3.7	1.4(.4)				-20078	1933	GAM LEP		227	-24	001+00?00
4445S	5 43 21	47 17.9	23	2.5			-3.2(.4)						164	10	0010?4?00
813S	5 44 0	2 9.6	16	4.1	1.7(.3)								203	-13	0001007?00
4446S	5 44 5	-23 37.9	9	3.9	.6(.3)	-1.3(.4)			-20079		GC 7231		228	-24	00+?00+00
814S	5 44 6	0 4.4	0	2.0		-1.7(.4)	-3.2(.4)				NGC 2067		205	-14	0006?0200
4447S	5 45 4	28 30.3	10	2.1	1.3(.3)	-1.8(.4)	-4.2(.4)				FS AUR		181	0	0002?7?00
4448S	5 45 41	39 9.3	20	2.7	1.7(.4)				40142	1995	TAU AUR		172	6	0000017?00
4449S	5 46 14	-15 33.2	10	3.8	1.3(.3)								220	-21	001+00?00
4450S	5 46 41	13 10.4	16	2.7	1.2(.4)				10096		EL TAU		194	-7	0000?0100
4451S	5 47 51	39 8.1	19	1.7	1.0(.4)				40144	2012	NUU AUR		172	6	0000?0?100
4452S	5 48 9	65 43.0	21	3.7			-3.0(.4)						148	19	0042+?700
825S	5 48 37	0 12.9	16	3.1	1.5(.4)								206	-13	0007?0100
827S	5 49 21	61 31.0	32	3.2	1.8(.3)								152	17	00?01?700
831S	5 50 15	64 57.0	16	1.7	1.5(.3)	-.2(.4)			60160		SVS 6403		149	19	002?37100
833S	5 51 40	-1 3.6	11	2.5	1.6(.4)				90		SVS 6408		207	-13	0001007?00
4453S	5 51 45	20 14.1	17	2.5	*	-1.6(.4)	-4.0(.5)		20126	2047	CHI1 ORI		189	-3	0?00000?00
4454S	5 52 17	-47 .8	21	3.7			-3.9(.6)						254	-29	0000?0?004
835S	5 52 24	41 29.3	20	1.8		-1.3(.4)							170	8	0?0007?00
836S	5 53 8	2 18.7	16	4.1	1.6(.3)								204	-11	0001?0?00
4455S	5 53 44	20 17.0	17	2.5	1.6(.5)				20128		DO 11744		189	-2	0000?0100
844S	5 53 49	6 45.4	16	4.0	1.1(.3)						DO 1340		201	-9	0001?0?00
4456S	5 54 9	-14 10.9	14	3.9	1.7(.4)				-10102	2085	ETA LEP		220	-18	0001007?00
4457S	5 56 28	-1 6.7	11	2.5	1.8(.4)	-1.3(.4)			94		DO 1352		208	-12	0?01?0?00
4458S	5 56 41	-10 53.5	16	3.1	1.5(.5)				-10104				217	-17	000+?0100
4459S	5 57 43	-3 6.4	15	4.0	1.5(.4)				95	2113	SVS 100707		210	-13	0001?0?00
855S	5 58 34	6 1.7	16	4.0	1.5(.3)								202	-8	0001?0?00
4460S	5 58 50	10 38.4	17	3.9	1.2(.4)				10102		DO 1365		198	-6	0?01?0?00
4461S	5 59 9	75 37.3	59	4.0	2.0(.4)				80012	2078	DO 29860		138	23	0??1??700
4462S	5 59 20	-19 40.9	11	3.9	1.7(.3)								226	-20	001?0?700
859S	5 59 21	1 51.0	16	4.1	*	-1.2(.4)							206	-10	0002?0+00
4463S	5 59 28	-33 54.0	9	1.9	1.4(.4)				-30061E	2131	GC 7630		240	-24	0010?0?000
4464S	5 59 29	8 25.7	16	4.0	1.7(.4)				10104		DR ORI		200	-7	0001?0?00
861S	5 59 31	-2 56.2	15	4.0	.9(.3)								210	-12	0001?0?00
4465S	5 59 40	-21 7.3	16	3.3	1.5(.4)				-20083				227	-20	00?+0?0100
4466S	6 0 0	46 17.7	22	3.3	1.4(.4)						BS AUR		167	12	0000??7?0
4467S	6 0 8	-50 41.9	23	3.7			-4.0(.6)				NGC 2152		258	-28	0000?0004



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GL	RA(1950) H M S	DEC(1950) ° ′	EA s	ED ′	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
4503S	6 29 32	-32 51.9	12	3.9	1.7(.4)				-30063		GC 8490		241	-18	001000000
4504S	6 29 52	-36 55.7	12	3.8	1.4(.4)				-30068E	2383	GC 8458		245	-20	001000000
4505S	6 30 1	-27 4.4	12	3.9	1.6(.5)				-30064				236	-16	001000000
4506S	6 30 37	30 18.2	18	2.2	1.7(.5)				30155		AI AUR	B	184	10	000000100
4507S	6 30 38	-9 54.5	15	3.8	1.3(.4)				-10130				220	-9	000100000
4508S	6 30 40	10 20.0	18	3.6		-.4(.4)	-2.8(.5)				NGC 2247		202	1	000500700
960S	6 31 51	60 42.2	18	2.1	1.3(.3)		-3.8(.5)						155	22	004117+00
963S	6 32 0	-29 13.7	12	3.9	1.6(.3)								238	-16	001000000
4509S	6 32 7	-38 11.7	12	3.9	1.3(.3)				-30070E	2411	GC 8559.EO		245	-19	001000000
4510S	6 32 34	-1 26.8	15	3.7	1.1(.4)				117		DO 1646		212	-4	000100700
4511S	6 33 1	78 2.5	53	1.8	1.6(.4)				80014	2382	GC 8574		136	26	0??????00
972S	6 34 32	-19 13.6	10	2.8	1.3(.4)				-20096	2429	MU2 CMA		229	-12	001100000
973S	6 34 38	81 46.8	63	2.2	1.3(.3)								132	27	0?1+1+?00
974S	6 34 41	10 57.2	18	3.6	1.7(.3)								202	2	000100700
4512S	6 34 48	-22 14.2	10	2.7	1.2(.4)	-1.7(.4)			-20097				232	-13	001200000
4513S	6 34 51	0 57.6	15	3.8	1.9(.5)				118		CX MON		211	-3	000100700
978S	6 35 7	-2 46.6	15	3.7	1.4(.3)								214	-4	000100700
4514S	6 36 2	42 31.2	20	1.8	1.5(.5)				40160	2437	PSI2 AUR		173	16	000?00100
4515S	6 36 4	-2 32.4	15	3.7	1.9(.4)				120	2440	GC 8664		214	-4	000100700
4516S	6 36 30	26 10.5	18	3.1	1.8(.3)				30160		DO 12410		188	9	000100700
4517S	6 36 33	13 17.4	9	1.9	2.4(.7)		-3.5(.5)				EE GEM		200	3	000?00500
987S	6 37 1	20 31.5	12	2.1	1.8(.4)				20156		DO 12420		193	7	000100100
4518S	6 37 40	-8 14.9	15	3.7	1.7(.4)		-2.3(.5)		-10136				217	-5	000500000
4519S	6 38 8	9 47.8	11	2.2		-1.2(.5)					V422 MON	B	203	2	000200200
4520S	6 38 33	11 3.3	10	2.5	1.1(.3)				10132	2488	DO 1712		202	5	000100700
4521S	6 39 9	-22 16.2	13	4.0	.9(.3)				-20101		SVS 836		232	-12	001000000
992S	6 39 10	-4 33.1	11	2.4		-1.3(.5)			123		V372 MON		218	-4	000?00?00
993S	6 39 15	-16 57.9	14	4.1	1.5(.3)								227	-10	001+00000
4522S	6 39 22	-9 8.0	15	3.7	1.3(.4)				-10137	2488	GC 8756		220	-6	000100000
4523S	6 40 36	71 28.3	49	2.5	1.8(.5)				70070		IC 0449		144	25	0??????00
4524S	6 40 40	-30 6.3	18	3.7	1.4(.4)				-20103				230	-11	001100000
4525S	6 41 10	13 18.3	17	3.5	1.2(.3)				10134	2478	30 GEM		200	4	000100700
4526S	6 41 12	40 39.1	20	1.8	1.1(.4)				40162		DO 30802		175	16	0000+0100
4527S	6 42 49	8 6.8	18	3.6	1.4(.3)				10137		DO 1748		205	2	000100700
4528S	6 44 7	49 19.7	24	3.0			-3.1(.4)						167	20	000?47?00
4529S	6 44 18	48 50.5	24	2.6	1.7(.4)				50172	2487	PSI8 AUR		167	20	000?00?00
4530S	6 44 35	1 35.0	15	3.6	1.3(.3)				126		MR MON		211	-0	000100700
4531S	6 45 4	0 43.7	15	3.8	1.5(.4)				127		DF MON		212	-1	000100700
4532S	6 45 43	5 35.0	18	3.7	1.7(.4)				10139		DO 1774		208	2	000?00?00
1016S	6 45 59	-16 13.9	14	4.1	1.3(.3)								227	-8	001+00000
4533S	6 46 23	32 37.3	19	2.7	1.7(.4)				30167	2512	IS GEM		183	14	000?00?00
4534S	6 46 43	-1 38.4	15	3.8	2.1(.5)				129		V377 MON		214	-1	000100000
4535S	6 47 5	12 9.6	10	2.5	1.7(.4)		-2.8(.4)		10141		DO 1783		202	5	000500700
4536S	6 48 1	15 10.3	18	2.8	1.3(.4)				20160				199	7	000+00100
4537S	6 49 27	18 44.4	18	3.5	1.8(.5)				20162		DO 12613		196	9	000100?00
4538S	6 50 24	-12 5.3	15	4.1	1.7(.4)						SVS 100778		224	-5	001+00000
1029S	6 50 30	4 51.7	15	3.5	1.4(.3)								209	3	000100?00
1030S	6 50 32	-37 9.0	13	3.9	1.5(.3)								247	-16	001000000
4539S	6 51 0	-21 49.9	14	4.0	2.0(.5)				-20111				233	-9	001000000
1031S	6 51 3	-10 1.4	14	3.6			-3.1(.4)						222	-4	000?00000

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′	EA ″	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
1032S	6 51 8	-27 42.4	13	3.9	1.5(.3)								238	-12	001000000
4540S	6 51 26	33 15.4	18	3.2	*		-3.6(.4)						183	15	000?40?00
4541S	6 51 34	0 49.7	15	3.6	1.6(.4)				137		QR MON		213	1	000100000
4542S	6 52 23	53 30.7	30	2.9	1.6(.4)				60178	2560	15 LYN		158	24	00?221?00
4543S	6 52 33	57 34.5	27	4.1	1.6(.4)				60177	2561	DO 31040,EO		159	23	001???00
1037S	6 52 40	-14 47.0	15	3.6	1.9(.4)	-2.4(.3)							227	-6	00+300000
4544S	6 52 59	-42 21.7	14	3.9	.6(.3)				-40054E	2591	GC 9077		252	-17	001000000
4545S	6 53 23	47 39.8	23	2.8	1.6(.4)				50173		SVS 901		169	21	000170?00
1046S	6 55 30	15 45.7	17	3.4	1.5(.3)								200	9	000100?00
1047S	6 55 54	-13 12.1	14	4.0		-1.2(.4)							251	-7	002000000
1048S	6 56 3	-8 31.5	16	3.8	1.6(.3)							R	206	5	000100?00
4546S	6 56 30	26 5.1	18	3.1	1.1(.4)				30170		SW GEM		190	13	000100?00
4547S	6 53 27	-14 17.1	15	3.6	2.1(.5)				-10144		RV CMA		227	-4	00?100000
1054S	6 59 4	15 43.9	17	3.4	1.6(.3)								200	9	000100?00
4548S	6 59 25	-3 38.6	15	3.6	1.5(.4)				143		DG 1902		217	1	000100000
4549S	6 59 39	-5 40.5	15	3.6	.8(.3)				-10145	2639	SVS 100794		219	-0	000100000
4550S	6 59 58	-15 35.1	15	3.6	1.8(.4)				-20116				228	-5	00?100000
4551S	7 0 54	11 2.2	16	2.7	1.3(.5)				10148	2649	GC 9303		204	8	000+00100
4552S	7 1 4	20 39.0	17	3.2	1.5(.4)				20169	2650	ZET GEM		196	12	000100?00
4553S	7 1 17	-5 14.1	15	3.6	1.5(.4)				-10146	2655	GC 9323	R	219	0	000100000
4554S	7 1 48	41 54.9	20	2.1	1.2(.3)								175	20	0001+0?00
4555S	7 1 56	-16 29.3	14	4.0	1.5(.4)				-20117		Y CMA		229	-5	001?00000
4556S	7 1 5?	-9 54.9	11	2.6	1.4(.3)	-1.1(.4)			-10148		BO MON		223	-2	003+00000
4557S	7 2 17	31 27.4	19	2.8	1.7(.3)				30173		DO 12771		186	17	000170?00
4558S	7 2 31	-68 6.9	21	2.7		-2.3(.4)	-3.2(.6)						279	-24	000000024
4559S	7 2 45	9 16.1	16	3.4	1.9(.4)				10151	2663	DO 1933		206	7	000100?00
4560S	7 2 45	55 58.4	27	4.1	1.1(.3)								161	24	001+???00
1063S	7 3 16	-40 58.7	14	3.9	1.6(.4)		-4.3(.4)				SVS 100807		252	-15	005000000
4561S	7 3 23	51 28.6	25	2.7	1.6(.3)								166	23	000170?00
1066S	7 3 32	12 44.1	16	2.6	1.0(.4)						DO 1935		203	9	000+00100
4562S	7 4 7	33 21.0	18	3.1	*	-1.1(.4)	-3.1(.5)						184	18	000?60+00
1068S	7 4 9	28 22.7	10	1.7	1.5(.3)		-3.0(.7)		30176		AM GEM		189	16	000110400
4563S	7 4 10	32 32.6	19	2.8		-1.3(.4)					IC 2176		135	17	0002+0?00
4564S	7 4 15	-24 33.7	14	3.9	1.2(.3)	-1.1(.4)			-20119				237	-8	003000000
4565S	7 5 4	-11 58.8	15	4.1	1.6(.5)				-10150				225	-2	001?00000
4566S	7 5 39	36 58.6	19	2.5	1.6(.3)								181	19	000170?00
4567S	7 5 45	10 6.8	16	3.3	1.7(.4)				10154		R CMI		206	8	000100?00
4568S	7 7 45	-27 50.2	14	3.9	.7(.4)				-30077				240	-9	001000000
4569S	7 9 5	7 40.2	16	3.4	2.1(.4)						WX CMI		208	8	000100000
4570S	7 9 37	34 39.9	19	3.1	1.8(.4)	-1.3(.4)						EO	183	19	000?30+00
4571S	7 9 45	17 46.8	16	2.6	1.2(.4)				20174		UZ GEM		199	13	000+00100
4572S	7 9 46	-1 19.7	15	3.5	2.6(.4)						MW MON		217	4	000100000
4573S	7 9 53	-9 17.9	15	4.1			-2.6(.4)				FM MON		224	0	004?00000
4574S	7 9 55	14 42.1	17	3.4	1.7(.4)		-2.3(.5)		10156		VX GEM		202	11	000500?00
1038S	7 11 2	-6 2.2	15	3.5		-1.3(.4)							221	2	000200000
4575S	7 11 24	-22 39.6	14	3.9	1.5(.4)				-20123	2730	SVS 100830		236	-6	001000000
4576S	7 11 31	27 43.6	18	2.9	2.0(.3)								190	17	000170?00
1089S	7 11 40	24 58.4	12	1.9	1.5(.3)				20176	2725	52 GEM		193	16	000170100
4577S	7 11 41	60 9.8	32	2.9	1.7(.3)		-2.0(.5)					EO	157	26	00?5???00
4578S	7 11 57	3 9.9	15	3.5	1.4(.4)				151	2729	GC 9590		213	7	000100000

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° '	EA S	ED '	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
4579S	7 11 59	85 51.6	28	2.8	1.6(.3)								181	26	00?1??700
1090S	7 12 36	-9 31.0	8	2.2	1.7(.3)		-3.6(.4)						224	1	00?500000
1097S	7 14 46	39 12.8	14	1.9	1.7(.3)				40171		DO 12910		179	22	000110?00
4580S	7 15 7	-6 38.1	15	3.8	1.8(.4)				-10158	2785	GC 9698		22?	3	00?100000
1100S	7 15 24	76 15.6	47	2.2	1.3(.3)								139	28	0?+1?1?00
4581S	7 16 18	3 38.1	15	3.4	1.2(.5)				154		DO 2097		213	8	000100000
4582S	7 16 18	-17 12.3	15	4.0	1.6(.5)				-20127		DU CMA	R	231	-2	001000000
4583S	7 16 56	-10 47.2	15	3.5	1.5(.4)				-10160				226	1	00?100000
4584S	7 16 59	-11 25.3	15	3.5	1.8(.5)				-10159				226	1	00?100000
4585S	7 16 59	-26 33.1	14	3.9	1.9(.4)				-30084	2786	GC 9740		240	-6	001000000
4586S	7 17 24	53 36.0	28	4.1	1.4(.3)								164	26	001??0?00
4587S	7 18 18	36 50.9	19	2.4	1.6(.4)				40174	2793	65 AUR		182	22	000??0?00
4588S	7 18 25	35 .3	19	3.1	1.9(.4)		-2.8(.5)						183	21	000?50?00
4589S	7 19 7	20 31.1	17	3.2	.8(.3)				20178	2795	56 GEM		198	18	0001+0+00
1107S	7 19 8	-11 21.3	18	4.1			-3.3(.4)						227	1	004+00000
4590S	7 19 20	26 6.0	18	3.0	2.3(.3)							EO	192	18	000??0?00
4591S	7 19 24	-24 6.9	14	3.9	1.4(.4)				-20128				238	-5	001000000
4592S	7 19 32	43 7.6	20	2.2	1.6(.3)								175	24	000??0?00
4593S	7 19 37	-14 49.4	15	4.0	1.3(.3)	-1.0(.4)					TT CMA		230	-0	003000000
4594S	7 20 6	69 14.8	46	3.1	1.8(.3)								146	28	00?1??700
4595S	7 20 23	36 40.0	18	2.4	1.8(.3)								182	22	000??0?00
4596S	7 20 44	40 45.0	20	2.2	1.7(.5)				40175	2805	66 AUR		178	23	000??0100
4597S	7 20 54	-29 13.7	15	3.9	1.6(.4)				-30089				243	-7	001000000
4598S	7 21 12	37 42.6	19	2.4	1.7(.4)				40176		DO 12990		181	22	000??0?00
4599S	7 21 45	35 41.1	19	2.5	1.3(.3)								183	22	000??0?00
1119S	7 23 48	12 47.8	16	3.2	1.7(.3)								205	13	000100000
1121S	7 24 41	75 11.0	42	1.8	1.8(.4)				80017		WZ CAM		140	29	0??1??100
1125S	7 25 15	-26 45.4	10	2.3		-1.5(.4)	-3.3(.4)						241	-5	036000000
1126S	7 25 23	68 33.2	24	1.5	1.9(.4)	-1.9(.5)			70076	2830	GC 9985		147	29	00+1+2100
4600S	7 25 28	40 47.4	20	2.2	2.0(.5)				40178		HH AUR		178	24	000??0?00
4601S	7 26 39	-1 51.0	18	3.4	2.3(.5)				155	2883	GC 10017		219	7	00?100000
4602S	7 26 47	-19 10.3	16	4.1	1.2(.4)				-10166	2867	GC 10022		226	4	001?00000
4603S	7 26 53	-4 12.3	19	3.4	1.5(.3)				156		BX MON		221	8	00?100?00
4604S	7 26 58	12 7.1	16	3.2	.9(.4)				10165	2864	8 CMI		206	14	000100000
1132S	7 27 6	-7 1.8	15	3.4	1.6(.3)							R	224	5	00?100000
4605S	7 27 18	-17 28.4	15	4.0	1.3(.4)				-20132		SVS 6587		233	0	001000000
4606S	7 27 55	-8 19.9	16	4.0	1.7(.4)				-10167		KO MON.EO		226	4	001?00000
4607S	7 28 56	+10 2.7	15	3.5	1.8(.5)				-10168		GC 10062		227	4	00?100000
4608S	7 28 58	40 47.3	20	2.2	1.8(.3)								178	25	000??0?00
4609S	7 30 59	18 31.3	16	3.2	*	-1.4(.4)			20183		DO 13135		201	17	000?20000
1142S	7 31 5	87 33.5	29	2.1	1.8(.4)				70077		DO 31647		148	29	00?1?1?00
4610S	7 31 26	51 19.5	16	3.1		-1.4(.4)					IC 2199		188	22	000?20+00
1146S	7 31 34	-9 58.4	16	4.0	1.3(.3)								227	5	001000000
4611S	7 31 49	28 50.2	18	2.5	1.4(.5)				30189		DO 13143	R	191	21	000??0100
4612S	7 31 50	2 56.2	15	3.3	2.0(.4)						Z CMI	R	215	11	000100000
1147S	7 31 54	5 47.6	16	3.4	1.5(.3)								213	12	000100000
4613S	7 33 6	-18 37.8	15	4.0	*		-3.3(.4)				SHARP. 307	R	235	1	004000000
4614S	7 33 43	-19 43.8	15	3.9	1.5(.5)				-20135				236	0	001000000
4615S	7 33 45	-8 10.5	16	4.0	1.9(.5)				-10170	2920	GC 10192		225	6	001?00000
4616S	7 33 50	40 8.7	20	2.3	1.5(.5)	-.7(.4)			40180	2915	DO 13172		179	25	000??0300

TABLE OF OBSERVATIONS

GL	RA(1950)	DEC(1950)	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II	B II	OBS. LOG
	H M S	° '	S	'									°	°	
1153S	7 34 51	29 17.7	18	2.8	1.6(.3)								190	22	0001?0000
1154S	7 34 59	8 44.5	16	3.3	2.0(.3)								210	14	0001000000
1156S	7 35 27	13 46.2	16	3.2	1.8(.4)		-2.8(.5)						206	16	0005000000
1157S	7 35 30	13 12.0	16	3.2	2.0(.3)								206	16	0001000000
1158S	7 35 58	-7 32.8	15	3.4	1.3(.3)								225	7	0071000000
4617S	7 36 32	36 52.7	19	2.5	1.5(.4)				40182				183	25	0001?0?00
4618S	7 36 4*	43 33.5	22	3.0	1.7(.4)	-1.2(.4)	-3.2(.4)					EO	176	27	000??0?00
4619S	7 36 54	57 13.9	29	4.0	1.7(.5)				60183	2929	23 LYN		160	29	001??0?00
4620S	7 37 28	34 21.3	18	2.4	1.4(.4)						IC 2203		185	24	000??0100
4621S	7 37 35	-27 38.1	15	3.9	1.1(.4)				-30097				243	-3	0010000C0
4622S	7 38 4	-15 9.6	15	3.9	1.0(.3)				-20139	2959	GC 10328		232	4	0010000000
1165S	7 38 36	-28 23.3	15	3.9		-1.7(.4)							244	-3	0020000000
4623S	7 38 42	-9 24.3	16	3.9	1.4(.3)				-10174	2970	ALF MON		227	7	0010000000
4624S	7 38 59	53 0.0	25	2.1	1.3(.3)								185	29	007??0?00
1170S	7 39 16	8 34.9	18	3.3	1.6(.3)								211	15	0001000000
4625S	7 39 25	-22 16.4	15	3.8	1.2(.3)				-20141	2976	GC 10352		238	0	0010000000
1172S	7 39 35	25 57.8	18	2.8	1.5(.3)								194	22	0001?0000
4626S	7 39 56	23 34.9	17	2.9	1.7(.4)						S GEM		197	21	0001?0000
4627S	7 40 21	44 21.3	22	2.9		-1.1(.4)	-2.5(.4)						175	28	000?60+00
4628S	7 41 25	-33 13.9	15	3.8	1.8(.5)				-30081E				248	-5	0010000000
4629S	7 41 37	42 13.8	20	2.2	2.0(.4)				40185		DO 31839		177	27	0001?0?00
1180S	7 41 43	-19 26.4	15	3.8	1.4(.3)								236	2	0010000000
1182S	7 41 59	28 45.1	17	3.1		-.8(.4)	-3.1(.4)						194	23	000?60000
4630S	7 42 18	51 9.2	26	3.8	2.1(.4)				50185		DO 31838	R	167	29	001??0?00
1185S	7 43 2	3 42.9	15	3.2	1.3(.3)								216	14	0001000000
4631S	7 43 23	-6 36.4	16	3.9	1.3(.4)				-10176	3014	GC 10465	R	225	9	0010000000
4632S	7 44 12	-21 24.4	15	3.8	1.9(.5)				-20142				238	2	0010C00000
4633S	7 44 47	-32 13.1	15	3.8	1.0(.3)	-1.4(.4)			-30100			R	248	-4	0030000000
4634S	7 45 11	24 9.2	10	2.1	1.6(.3)						SVS 100897		197	23	0001?0000
4635S	7 45 13	-19 19.9	15	3.8	1.8(.4)				-20143				237	3	0010000000
4636S	7 45 18	-15 49.4	16	3.9	1.7(.4)				-20144	3027	GC 10514		234	5	0010000000
1193S	7 46 14	-15 49.0	16	3.9			-3.0(.4)						234	5	0040C00000
1194S	7 46 26	10 53.9	18	3.2	1.3(.3)							R	210	18	0001?0000
4637S	7 46 29	13 27.6	18	3.2	2.2(.4)				10177	3030	GC 10539		207	19	0001?0000
4638S	7 46 49	-35 33.9	16	3.8	1.6(.4)				-30087E				251	-5	0010000000
4639S	7 47 24	-13 58.2	16	3.9	1.5(.5)				-10178		GC 10566		232	6	0010000000
4640S	7 47 52	-33 13.3	16	3.8	.9(.3)				-30088E	3052	GC 10574		249	-4	0010000000
4641S	7 48 9	-27 42.7	16	3.8	1.4(.4)				-30101				244	-1	0010000000
1198S	7 48 43	-34 48.7	10	2.2		-1.7(.4)	-3.6(.5)						250	-4	0060000000
4642S	7 49 49	-35 8.6	16	3.8	1.3(.4)				-30090E				251	-4	0010000000
1201S	7 50 21	60 4.8	31	3.8			-2.9(.4)						157	31	004??0?00
4643S	7 50 40	-7 52.5	16	3.8	1.3(.3)	-.2(.5)			-10182				227	10	0030000000
1202S	7 50 58	47 40.8	18	2.1	1.7(.4)				50186	3066	26 LYN		172	30	0011?0?00
4644S	7 51 30	1 53.2	15	3.3	2.0(.4)						VX CMI		219	15	007?100000
1203S	7 51 34	-28 49.4	15	3.7	1.3(.3)							R	245	-1	0010000000
1206S	7 52 18	30 37.7	18	2.7	1.4(.3)								190	26	0001+0000
4645S	7 52 40	-34 43.7	16	3.8		-2.1(.4)			-30092E	3092	GC 10709		251	-4	0020C00000
1207S	7 52 44	-6 16.6	16	3.7	1.7(.3)		-2.9(.4)						226	11	0050000000
1208S	7 52 56	20 8.3	17	3.0			-2.9(.4)						201	23	0004+0000
1210S	7 53 17	8 59.3	16	3.1		-2.1(.3)	-3.1(.4)						212	18	0006+0000

TABLE OF OBSERVATIONS

GL	RA(1950)	DEC(1950)	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II	B II	OBS. LOG
	H M S	° '	S '									°	°	
1211S	7 53 29	16 54.6	16 3.1		1.2(.3)							205	22	0001?0000
4646S	7 53 30	-28 29.8	15 3.7		1.6(.3)		-3.6(.4)		-30105		HU PUP	245	-0	005000000
1212S	7 53 46	11 2.1	15 3.3		•	-1.2(.4)						210	19	000?20000
4647S	7 53 48	68 .2	41 3.3		1.1(.4)				70079		SVS 6600	148	31	00??11?00
4648S	7 53 56	74 2.3	53 2.0		.9(.3)				70080	3075	GC 10745	141	31	0+?+1+?00
4649S	7 53 57	11 13.3	15 3.3		1.8(.3)				10179		DO 2361	210	19	000?10000
4650S	7 54 3	21 26.8	16 3.2		•		-3.7(.4)		20192		XY GEM	200	24	000+40000
4651S	7 54 26	15 51.9	16 3.1		2.0(.4)				20191	3095	1 CNC	206	21	0001?0000
4652S	7 54 39	-22 43.2	15 3.8		1.4(.4)				-20150	3102	11 PUP	241	3	001000000
4653S	7 55 19	-15 5.0	15 3.7		1.5(.3)				-20151			234	7	0010C0000
4654S	7 55 34	16 41.8	16 3.1		1.6(.4)				20193		GC 10773	205	22	0001?0000
1214S	7 56 8	-0 50.2	17 3.7		1.2(.3)		-2.9(.5)					222	14	005+00000
4655S	7 56 42	-32 24.4	16 3.7		1.2(.4)				-30108			249	-2	0010?0000
4656S	7 58 19	-32 35.8	10 2.2		1.1(.3)	-1.3(.5)			-30109			249	-1	003C00000
4657S	7 58 36	-29 56.0	16 3.7		•	-2.2(.4)			-30110			247	0	0020?0000
4658S	7 59 7	-31 33.6	10 2.2			-1.6(.4)			-30111			249	-1	0020?0000
4659S	8 0 6	-26 3.7	16 3.8		1.7(.4)				-30112			244	2	0010?0000
1219S	8 0 13	47 8.1	17 2.1			-1.7(.4)						172	31	002+?0200
4660S	8 0 40	27 57.5	17 3.1		1.6(.5)				30198	3140	CMI GEM	194	27	000?10000
4661S	8 0 45	-12 6.8	16 3.8		1.7(.4)				-10106			232	10	0010000?0
1222S	8 1 22	62 16.7	23 1.5				-3.8(.5)					155	32	00+?40400
1225S	8 2 37	34 16.4	19 3.1		•		-3.2(.4)					187	29	000+40000
4662S	8 2 43	-29 52.1	16 3.7		1.8(.5)				-30110		GC 10968	248	1	0010000000
4663S	8 3 4	-16 56.4	15 3.7		2.0(.4)				-20155			237	8	0010?00000
1220S	8 3 31	60 52.0	22 1.5		1.6(.4)				60185		DO 32087	156	33	00?110?00
1230S	8 3 33	-0 32.1	17 3.7		1.7(.3)							222	16	001000000
4664S	8 5 13	6 41.6	17 3.4				-3.1(.4)					218	20	004?+0000
4665S	8 5 14	-3 17.8	16 3.6		2.0(.4)		-3.2(.4)		169		DO 2421	225	15	005000000
4666S	8 5 17	-22 40.4	16 3.7		1.5(.4)				-20156		RU PUP	242	5	0010000000
4667S	8 5 27	47 28.2	22 2.0		1.5(.3)							172	32	00?1?0000
4668S	8 6 48	55 40.8	26 1.7		1.4(.3)		-3.6(.4)					162	33	00?5+0?00
4669S	8 7 10	17 12.2	16 3.2		1.3(.4)				30196		DO 13439	208	25	000+10000
1234S	8 8 51	3 38.3	15 3.2		1.1(.3)							219	19	00+100000
4670S	8 9 11	43 42.7	23 3.3				-3.2(.4)					177	33	004??0000
4671S	8 9 32	44 21.9	21 2.2		1.8(.3)		-2.4(.5)					178	33	00?5?0000
4672S	8 9 35	19 11.5	17 3.0		1.6(.3)						EO	204	26	00?1?0000
1235S	8 9 51	2 3.5	17 3.6		1.9(.4)	-.6(.4)					EO	221	19	00300?0000
1237S	8 10 34	-32 40.0	16 3.7		1.3(.3)							251	1	0010?0000
4673S	8 10 50	45 58.9	24 3.4				-2.7(.5)				IC 2233.EO	174	33	004??0000
1233S	8 11 32	-28 .9	16 3.6				-4.0(.4)					247	3	004000?00
4674S	8 11 40	40 32.1	20 2.4		1.9(.3)							180	32	00?1?0000
4675S	8 11 48	37 49.8	20 3.0		1.6(.5)				40193		RT LYN	184	32	00??10000
4676S	8 11 58	8 40.7	17 3.3		1.6(.4)	-.8(.4)					TV CNC	215	22	003?+0000
4677S	8 12 24	4 45.3	15 3.2		1.6(.3)							218	21	00?1?0000
4678S	8 12 26	17 17.4	16 2.9		1.6(.3)							206	26	00?1?0000
4679S	8 13 20	23 35.4	17 3.2		•		-3.0(.4)				IC 2255	200	28	00??40000
4680S	8 13 37	9 21.6	16 3.1		-.0(.3)				10188	3240	BET CNC	214	23	00+1+0000
4681S	8 15 14	39 37.2	20 2.4		1.6(.3)	-.8(.4)						182	33	00?3?0000
1242S	8 15 22	85 16.8	101 2.0		2.0(.4)	-.8(.4)					FF CEP	128	29	+2?1?2?00
4682S	8 16 47	23 6.8	17 2.9		1.5(.3)						EO	200	29	00?1?0000

TABLE OF OBSERVATIONS

GL	RA(1950)	DEC(1950)	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II	B II	OBS. LOG
	H M S	° '	S	'									°	°	
4683S	8 16 54	39 36.3	21	3.0			-3.1(.4)						181	33	004??0000
1246S	8 19 35	33 40.0	13	1.8	1.4(.4)						T LYN		181	33	001??0000
4634S	8 20 8	-25 30.8	16	3.6	.8(.3)				-30124		SVS 1289		246	6	001000000
4685S	8 20 35	18 55.8	16	3.2			-3.0(.4)				IC 2340		205	28	00??40000
4686S	8 20 35	-7 25.0	16	3.4	1.1(.4)				-10193	3288	GC 11437		231	16	001000000
4687S	8 20 44	19 8.2	16	3.2	2.1(.3)						IC 2343		205	29	00??10000
1248S	8 20 58	1 33.1	15	3.4	1.5(.3)								223	21	00?010000
4688S	8 21 33	42 11.8	22	3.1	1.4(.4)				40196	3287	DO 32263		179	35	001+?0000
4689S	8 22 3	20 4.7	10	1.8		-1.7(.4)					SVS 100954		195	32	00+220000
4690S	8 22 47	-23 52.1	16	3.5	1.3(.4)				-20166	3315	GC 11491	R	249	8	001000000
4691S	8 22 51	19 41.3	16	2.9	1.4(.3)						IC 2363		205	29	00?1?0000
4692S	8 22 52	2 14.0	15	3.4	1.7(.4)				174	3305	GC 11493		222	22	00?010000
1252S	8 23 13	44 57.1	16	2.0		-.7(.3)							176	35	0022?0000
4693S	8 23 57	59 14.8	28	1.6	1.8(.3)								158	35	00?1?0?00
1256S	8 24 34	13 8.9	11	2.2			-3.7(.4)						212	27	00?440000
1257S	8 24 50	-27 35.9	10	2.2		-2.0(.4)							248	6	002000000
4694S	8 26 31	21 52.4	16	2.5	1.1(.3)								203	31	001+?0000
4695S	8 26 51	44 18.9	23	3.1	1.6(.3)							EO	176	36	001??0000
1259S	8 27 3	2 51.8	15	3.4			-3.4(.4)						222	23	00?040000
4696S	8 28 1	43 49.5	21	2.3	1.6(.3)							R	177	36	00?1?0000
4697S	8 28 8	67 11.6	28	1.5	1.3(.4)	-.7(.4)					S/S 100962		148	35	00?2?0100
1264S	8 28 49	24 10.1	18	2.3		-.7(.4)					IC 0509		200	32	002??0000
4698S	8 30 25	-67 37.2	32	3.9			-4.0(.5)						282	-16	00000004+
4699S	8 31 22	-9 48.8	16	3.4	1.7(.5)				-10197				234	17	001000000
1269S	8 31 30	4 7.4	16	3.2	.0(.3)								222	25	0010+0000
4700S	8 31 54	33 54.5	20	2.5	1.8(.3)								183	36	00?1?0000
4701S	8 31 58	5 41.4	15	3.4	1.2(.5)				10191		DO 2545		220	25	00+010000
4702S	8 32 1	29 57.1	18	2.7	1.6(.3)								194	34	00?1?0000
4703S	8 32 33	57 42.5	28	1.8	1.5(.3)								160	37	00?1?0000
1270S	8 33 1	9 44.7	15	3.4		-1.1(.4)							216	27	00?020000
1272S	8 34 39	19 49.5	9	2.0	1.4(.3)	-.9(.4)	-2.3(.6)				NGC 2625		206	32	005?20000
1277S	8 36 19	64 31.9	25	1.9	1.2(.3)				60188	3403	PI2 UMA		151	36	001??0?00
4704S	8 36 36	-19 35.2	16	3.4	1.6(.4)				-20172	3425	GC 11865		243	13	001000000
1279S	8 37 7	-23 55.6	16	3.5	1.4(.3)								247	10	001000000
4705S	8 37 35	-12 18.7	16	3.4	1.5(.4)		-2.5(.5)		-10200	3431	6 HYA		237	17	005000000
4706S	8 37 36	46 2.8	12	2.2		-1.0(.4)			50193	3422	34 LYN		174	38	00??20000
4707S	8 37 36	16 26.2	16	2.6	1.4(.3)								210	31	001+?0000
4708S	8 39 28	-2 55.6	14	3.5	1.1(.3)				178		DO 2587		229	23	00+010000
4709S	8 39 45	-2 51.7	16	3.2	1.5(.3)		-2.8(.4)		178		DO 2587		229	23	0050+0000
4710S	8 41 51	59 35.5	29	1.8	1.6(.3)								157	38	00?1?0000
4711S	8 42 26	72 34.1	51	3.4		-.7(.4)							142	34	0?2????00
1286S	8 43 29	79 9.9	37	1.8	1.2(.3)	-.8(.5)			80018		RS CAM		134	32	021+??100
4712S	8 43 53	-13 20.7	16	3.4	1.5(.3)		-3.0(.4)		-10207	3484	12 HYA		239	18	005000000
4713S	8 43 58	-10 42.2	16	3.4	.8(.4)				-10206		GC 12087		237	20	001000000
1290S	8 44 27	1 18.1	15	3.5		-1.2(.4)							226	26	00?020000
4714S	8 44 48	49 15.1	24	2.5		-.8(.4)							170	39	00??20000
1294S	8 46 40	73 16.5	30	1.5	1.4(.3)	-.9(.4)	-3.4(.5)						141	34	0??1?+600
4715S	8 47 45	44 22.7	22	2.5	1.5(.3)								177	40	00?1?0000
4716S	8 48 23	63 54.2	36	3.2			-2.9(.4)						152	37	0047?0000
4717S	8 49 35	-3 14.1	14	3.5	1.4(.3)				180		DO 2638		231	25	007010000

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′	EA s	ED ″	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II °	B II °	OBS. LOG
1297S	8 51 21	-12 51.5	16	3.4			-3.2(.4)					240	20	0C4000000
4718S	8 52 41	23 .5	17	2.3			-3.0(.4)					204	37	0047+0000
4719S	8 54 14	41 33.2	21	2.5	1.9(.4)				40198			180	41	0071?0000
4720S	8 54 34	11 4.4	16	3.5	1.5(.4)				1J198		DO 13661	217	33	0070?10000
4721S	8 55 37	29 8.2	17	2.0	.		-3.4(.4)					196	39	0047?0000
4722S	8 57 10	-13 38.5	15	3.2			-3.7(.4)				EO	241	20	0040000000
4723S	8 57 18	37 49.1	14	1.9	1.6(.3)		-2.3(.5)		40199	3580	DO 13749	185	41	004+10000
4724S	8 57 26	41 58.9	21	2.5	1.8(.4)				40200	3579	GC 12434	180	41	0071?0000
1305S	8 59 1	4 35.3	16	2.9	1.5(.3)							225	31	0010?0000
1306S	9 0 8	-20 50.6	16	3.3	1.4(.3)		-3.8(.4)					248	17	0050?0000
4725S	9 1 52	52 50.8	25	2.3	.		-3.1(.4)					165	41	007+40000
1312S	9 2 30	-5 56.2	16	3.2	1.3(.3)							235	26	0010?0000
1313S	9 2 31	-7 6.2	16	3.2	.7(.3)							237	25	0010+0000
4726S	9 3 21	5 13.8	11	2.3	1.3(.4)		-2.9(.5)		10201	3613	ONE HYA	225	32	0040?0000
4727S	9 3 52	27 44.9	17	2.1	1.5(.3)							199	41	0017?0000
4728S	9 4 26	37 22.9	20	2.8			-3.4(.4)				IC 2434	186	42	0074?0000
1318S	9 4 35	-8 36.6	16	3.2		-1.6(.4)						238	25	0020+0000
4729S	9 4 37	32 54.5	17	1.9	1.3(.3)							192	42	001+?0000
4730S	9 5 18	-9 19.0	11	2.4			-3.3(.4)					239	25	0040?0000
4731S	9 6 24	59 8.0	31	2.8	1.3(.3)							157	41	0017?0000
1322S	9 6 37	3 34.2	15	3.5		-1.7(.4)						227	32	00+020000
4732S	9 7 42	58 14.0	29	2.2	1.2(.3)							158	41	00+170000
4733S	9 8 8	-62 51.0	29	3.9		-2.4(.4)						281	-10	0000000??
1329S	9 8 36	19 11.2	16	2.3	1.5(.3)						DO 13439	210	39	0010?0000
4734S	9 8 57	73 35.2	55	3.1			-3.3(.5)				IC 2438,EO	140	36	0?47???00
1331S	9 11 46	0 48.9	11	2.3		-.8(.4)	-3.2(.5)					230	32	006020000
1333S	9 12 27	9 49.2	18	2.8		-.7(.4)						221	36	007?020000
4735S	9 12 42	23 40.2	17	2.1			-3.0(.4)				IC 2451	209	41	0040?0000
4736S	9 12 43	48 42.1	23	2.4	1.1(.3)							171	44	001+?0000
4737S	9 13 12	-15 28.1	16	3.2	1.0(.4)				-20185			246	22	0010000000
1337S	9 14 10	37 38.0	14	1.8			-2.6(.4)					188	44	0047?40000
4738S	9 15 23	47 28.3	23	2.5	1.6(.3)							172	44	007?10000
1338S	9 15 47	5 57.1	18	2.8	1.8(.3)							228	35	0010?0000
4739S	9 16 5	36 35.6	19	2.7	1.3(.3)							187	45	00+170000
4740S	9 16 46	42 58.3	21	2.6			-3.9(.4)					178	45	0074?0000
4741S	9 17 15	46 25.9	22	2.2			-3.0(.4)					178	45	004+?0000
1339S	9 17 40	3 12.4	14	3.5	.		-3.4(.4)					228	34	00+040000
1340S	9 17 56	6 55.0	16	2.8			-3.2(.4)					225	36	0040?0000
1343S	9 18 10	-9 29.9	16	3.0		-1.2(.6)	-3.4(.5)				EO	241	27	0060+0000
1345S	9 19 28	41 40.5	15	2.0		-.7(.4)						180	45	007?20000
1346S	9 19 45	-6 33.9	16	3.0	1.2(.3)							239	29	0010+0000
1347S	9 20 29	31 58.2	17	1.8	1.4(.3)							194	45	0010?0000
1349S	9 20 48	21 35.3	16	2.2			-3.2(.4)					208	43	0010?0000
4742S	9 21 57	41 55.6	21	2.6	1.6(.3)							180	46	0071?0000
4743S	9 25 55	-7 26.4	14	3.6	1.6(.4)				-10218			241	30	007?010000
4744S	9 26 53	63 18.7	36	2.9	1.8(.4)				60195	3757	23 UMA	151	42	007?10000
4745S	9 28 15	25 16.5	17	2.1	1.8(.6)				30212		DO 13922	204	45	0010?0000
4746S	9 29 3	51 52.7	25	2.3	2.1(.5)				50198	3775	THE UMA	166	46	001?00000
1359S	9 29 31	-7 27.6	16	3.0	1.2(.3)							241	31	0010+0000
1364S	9 31 8	-9 3.9	16	3.0	1.2(.3)							243	30	0010?0000

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ' "	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
4747S	9 32 3	39 50.8	14	1.7	1.6(.4)				40209	3809	GC 13221		183	48	001010000
4748S	9 32 51	-14 30.9	14	3.7	1.4(.4)				-10222		X HYA		248	27	000010000
1367S	9 34 53	11 55.0	16	3.6		-1.0(.3)							222	42	00+020000
4749S	9 35 18	58 46.6	21	1.8	1.7(.4)				60196		DO 32928		156	44	001?10000
4750S	9 36 1	4 51.9	8	2.0	1.6(.3)		-3.6(.4)		189	3834	DO 2798		230	39	0050+0000
1370S	9 39 11	19 27.0	10	2.4			-3.1(.4)					R	213	46	0040?0000
4751S	9 39 39	10 10.6	15	3.6	1.6(.5)				10210	3852	OMI LEO		225	42	007010000
4752S	9 39 16	72 25.2	50	2.1	1.9(.5)				70092	3839	27 UMA		139	38	???1?0000
4753S	9 40 15	53 58.5	26	2.5	1.4(.4)				50200		YY UMA		162	47	00+100000
1373S	9 41 33	46 17.6	22	1.9	1.6(.3)		-3.2(.4)						173	49	005?00000
1374S	9 42 1	69 43.1	31	1.6	1.7(.4)	-1.0(.4)							142	40	3?2??0000
1375S	9 42 13	18 1.7	12	2.2		-.5(.4)							215	46	002020000
1377S	9 42 55	16 16.7	12	2.2		-.5(.3)							218	46	002020000
4754S	9 43 48	-5 51.8	14	3.7	1.6(.4)				-10224				243	34	000010000
4755S	9 44 24	5 55.9	16	2.8		-1.2(.4)					IC 2509	R	230	41	002070000
4756S	9 45 41	53 47.2	26	2.8	1.6(.3)				50201		DO 33010		162	47	007100000
1382S	9 47 56	2 23.7	16	2.7	1.4(.3)								235	40	001070000
4757S	9 48 9	13 14.8	18	3.7	2.0(.5)	-.7(.4)			10217	3896	23 LEO		222	46	007030000
1383S	9 48 9	16 13.7	16	2.4	1.3(.3)								218	47	001070000
1384S	9 48 46	0 2.1	18	2.7	1.1(.3)								238	39	001070000
4758S	9 51 1	10 31.9	16	2.5	1.3(.4)				10219		DO 2849		226	45	001070000
4759S	9 51 2	-17 42.0	14	3.7	1.7(.4)				-20200				254	28	000010000
1390S	9 52 55	58 27.6	29	2.2	1.3(.3)								155	47	001+00000
1391S	9 53 8	55 31.4	27	2.6	1.2(.3)								159	48	00+100000
4760S	9 56 18	5 3.2	16	2.6	1.5(.4)				10223		DO 2861		234	43	001070000
4761S	9 56 22	57 2.7	20	1.7	1.8(.3)	-2.0(.4)			60199	3939	DO 33091		156	48	20+100000
4762S	9 57 34	70 12.1	46	2.4	1.5(.3)								141	41	???1?0000
4763S	10 0 7	41 35.6	19	1.7	1.5(.4)				40214		DO 33133.EO		179	53	001000000
1393S	10 0 31	20 57.3	18	3.8			-3.5(.4)						213	51	00+040000
1394S	10 1 5	45 8.3	21	1.6	1.5(.3)								174	52	001000000
4764S	10 1 14	-9 20.2	13	3.7	1.5(.4)				-10228	3959	GC 13823		249	35	000010000
4765S	10 2 6	84 4.9	146	2.0	1.4(.3)								128	32	??01???00
4766S	10 2 17	65 48.9	196	2.7		-.6(.4)					SVS 101081		125	30	?20???00
4767S	10 2 59	-58 26.9	28	3.7		-1.0(.5)	-3.7(.4)						283	-3	000000060
4768S	10 3 6	18 18.7	17	3.8	1.4(.4)				20218		DO 14081		217	51	007010000
1398S	10 5 9	10 58.3	16	3.8			-3.4(.4)						228	48	00+040000
4769S	10 5 13	1 13.6	14	3.8	1.9(.4)				192		DO 2890		240	43	000010000
4770S	10 5 29	17 35.8	17	3.9	1.0(.3)				20217		DD LEO		219	51	00?010000
4771S	10 5 39	12 12.8	16	3.8	1.6(.4)				10226	3982	ALF LEO	R	226	49	007010000
4772S	10 7 27	24 36.6	18	3.7		-1.5(.4)					IC 2551		208	54	00+020000
4773S	10 8 56	-18 43.3	9	2.2	1.3(.3)				-20206		GC 13998		258	30	000010000
1401S	10 10 57	59 39.8	21	1.5	1.5(.4)				60201		DO 33211		152	48	?01100000
1402S	10 11 24	56 36.5	19	1.3	1.0(.3)	- 3(.5)			60202		DO 33214		156	50	201+00000
4774S	10 12 46	-57 34.2	28	3.7		-1.3(.5)	-3.1(.5)	-6.8(.6)				R	283	-1	000000070
4775S	10 12 49	79 34.4	82	1.8	1.6(.3)								131	35	1?????00
4776S	10 13 21	-54 12.4	25	3.7		-2.2(.4)					H VEL		281	2	000000020
4777S	10 15 2	-57 40.6	28	3.7		-1.7(.4)					NGC 3199	R	284	-1	000000020
1406S	10 16 10	18 50.3	17	3.9	*		-3.4(.4)						218	54	00+040000
4778-	10 16 21	-53 45.0	25	3.7		-2.4(.4)							282	2	000000020
1409S	10 16 33	21 30.0	18	3.8	1.7(.4)		-3.8(.4)						214	55	00+050000

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° '	EA S	ED '	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
4779S	10 19 38	25 44.4	17	2.2	1.2(.4)				30220		DO 14165		207	57	001000000
4780S	10 21 3	-3 22.0	14	3.9	1.9(.4)				193		DO 2932		248	43	000010000
4781S	10 24 52	-25 17.9	9	2.1	1.0(.3)				-30165		CZ HYA		266	27	000010000
4782S	10 25 0	36 57.4	14	1.6	1.5(.5)	-1.4(.5)			40219	4100	BET LMI		186	58	102000000
4783S	10 25 24	-.1 33.4	13	3.8	1.6(.4)				-20211		GC 14375		264	30	000010000
4784S	10 25 34	84 .3	150	3.5		-.9(.4)	•				BRIGHT NEB		127	32	?20???000
1418S	10 27 41	75 9.0	27	2.2	1.2(.4)	-1.6(.4)	-3.7(.4)						134	39	+++6?3000
4785S	10 28 29	-7 22.0	14	3.9	1.9(.4)				-10241	4122	GC 14442		253	41	000010000
1421S	10 29 45	44 7.5	21	2.2	1.5(.3)	-.5(.4)	-3.1(.4)						173	58	70+000000
4786S	10 31 17	68 44.3	41	1.7			-3.2(.4)						140	44	4??+00000
4787S	10 32 8	7 11.4	15	3.9	2.3(.4)				10232	4146	48 LEO		239	52	000010000
1426S	10 32 32	14 37.5	17	4.5	1.8(.3)								228	56	000010000
4788S	10 32 47	-48 36.9	14	2.3		-1.7(.4)							281	8	000000020
4789S	10 33 32	-63 20.9	34	3.5			-4.0(.4)						288	-5	0002?004+
4790S	10 34 26	79 .3	80	2.1	1.2(.3)								131	36	1?0???000
1429S	10 37 7	72 54.2	37	1.6		-.5(.4)	-2.7(.5)						135	41	2??0?0000
1430S	10 37 12	-22 3.7	13	3.8	•		-3.9(.4)						267	31	0000?0000
4791S	10 38 5	68 42.5	41	1.8	1.9(.4)				70096	4176	GC 14682		139	44	??1+00000
4792S	10 39 6	31 57.5	18	2.5	1.3(.4)				30224	4184	RX LMI		195	62	1000?0000
1436S	10 42 45	52 30.9	17	1.3		-.8(.5)	-2.6(.5)				BH UMA		157	56	602000000
4793S	10 43 42	-59 52.8	31	3.5		-1.4(.4)					BN CAR,EO,R		288	-1	000000020
4794S	10 44 4	65 5.5	37	3.5	1.3(.4)				70101		DO 33430		141	47	?1?+00000
4795S	10 45 57	-1 43.5	13	3.9	1.0(.4)				195	4224	DO 3001		253	48	000010000
1445S	10 52 39	22 25.0	9	2.0			-3.2(.4)						217	63	400000000
1447S	10 53 33	74 24.6	41	2.5		-1.5(.5)							133	41	+?0220000
4796S	10 56 27	35 20.6	19	2.4	1.2(.3)				40221	4278	DO 14320		185	65	100000000
4797S	10 57 0	45 48.6	22	2.1	1.5(.4)				50206	4280	GC 15109		165	61	100000000
4798S	10 57 2	-18 6.3	12	3.9	1.7(.4)				-20220	4284	GC 15101		269	39	000010000
1451S	10 59 1	73 8.2	38	2.0			-3.3(.4)						133	42	440+00000
1456S	11 2 45	72 57.4	36	2.3	2.3(.6)	-1.3(.4)	-2.8(.5)						133	42	6+0+30000
4799S	11 3 50	-82 13.5	17	2.0			-3.3(.6)				RCW 56	R	291	-2	000000074
1459S	11 5 7	77 38.7	41	2.8		-1.0(.4)	-3.2(.5)						130	38	+?0+2600C
4800S	11 6 29	20 33.0	17	2.7	1.4(.3)				30238		DO 14381		224	68	100000000
1465S	11 7 0	31 7.8	18	2.5	1.4(.3)								197	67	100000000
4801S	11 7 26	-43 47.7	21	3.4		-2.4(.4)							284	15	000000020
1466S	11 7 53	1 18.6	14	4.0		-1.1(.4)							256	54	000020000
4802S	11 8 2	11 34.4	16	2.9	1.7(.4)				10236		DO 3057		242	62	100000000
1468S	11 9 45	28 49.2	18	2.8	1.6(.3)	-.3(.4)							203	68	300000000
1469S	11 11 20	-8 43.8	12	4.0		-1.0(.4)							266	47	000020000
1470S	11 11 50	27 10.0	18	2.7	1.4(.3)								208	63	100000000
4803S	11 12 10	73 29.9	53	4.1		-1.2(.4)							132	42	??0+20000
4804S	11 12 52	-11 21.1	12	4.0	1.3(.3)				-10251				269	45	000010000
4805S	11 13 20	13 34.3	16	2.8	1.7(.4)	-.6(.5)			10237	4368	73 LEO		240	64	300000000
4806S	11 14 13	10 3.9	16	2.9	1.5(.3)	-.7(.4)					IC 2680		246	62	300000000
4807S	11 15 43	-39 37.6	20	3.4		-2.2(.4)					V437 CEN		264	20	000000020
4808S	11 16 10	-61 9.1	33	3.3		-1.4(.5)		-6.2(.7)				R	292	-1	000000037
4809S	11 16 15	-46 5.3	13	2.3		-1.5(.4)	-3.4(.4)						267	14	000000060
4810S	11 17 27	12 23.2	16	2.9			-3.2(.4)				IC 2721		243	64	400000000
1479S	11 18 32	4 33.7	14	4.3		-.9(.4)							256	59	+00020000
4811S	11 20 48	17 5.4	17	2.9	1.5(.4)				20228		TZ LEO		235	67	100000000

TABLE OF OBSERVATIONS

GL	RA(1950)	DEC(1950)	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II	B II	OBS LOG
	H M S	° ′	S ′									°	°	
4812S	11 22 17	-48 7.0	23 3.4				-3.8(.5)					288	12	0000000010
4813S	11 22 22	77 36.7	72 3.0		1.4(.3)							129	39	+2011?000
4814S	11 23 28	-13 28.6	12 3.9		1.5(.5)				-10285		GC 15690	273	44	0000100000
4815S	11 23 57	72 45.6	53 2.8		1.5(.3)							131	43	1?0?00000
4816S	11 24 22	13 9.1	16 2.8			-.6(.4)					IC 2823	245	66	2000000000
4817S	11 24 59	3 8.0	16 3.1				-2.7(.4)		205	4418	TAU LEO	260	59	4000?0000
1490S	11 25 47	24 7.3	17 2.7		1.6(.3)							218	71	1000000000
1491S	11 26 8	1 42.1	16 3.1		1.5(.3)							262	58	1000?00000
4818S	11 27 27	-62 23.0	20 2.3				-2.8(.4)					294	-1	000?0?0042
1496S	11 29 55	5 22.4	14 4.2		*		-3.1(.4)					259	61	+0004?0000
4819S	11 29 57	-26 30.2	11 3.9		1.3(.3)				-30176	4445	GC 15832	282	33	0000100000
4820S	11 31 10	2 47.4	16 3.1		1.6(.4)				208		GC 15852	263	59	1000?00000
4821S	11 34 2	60 6.6	93 3.1		1.6(.3)							127	37	1?0???1?00
1501S	11 35 19	2 57.1	13 4.1		.4(.3)							264	60	+0001?0000
4822S	11 37 15	-58 35.1	30 3.2				-3.5(.4)				EO	294	3	0000?00040
1504S	11 37 37	16 13.5	17 2.9		1.5(.3)							243	70	1000000000
4823S	11 37 43	-30 1.0	11 3.8		1.1(.4)				-30180			285	30	0?0?10000
1505S	11 38 27	26 19.2	17 2.6		1.2(.3)							213	74	1000?09000
4824S	11 39 14	-32 9.7	11 3.8		1.3(.4)	-1.6(.4)			-30181	4503	GC 16055	286	28	0000?0070
1506S	11 39 19	55 27.1	19 2.0		1.4(.4)				80211	4500	GC 16052	142	59	1100000000
4825S	11 39 47	-48 12.7	24 3.3			-2.0(.4)						291	13	0000000020
1507S	11 42 16	53 46.9	26 2.2		1.7(.3)							143	61	1?0000?000
4826S	11 43 31	-24 40.6	10 3.8			-.7(.4)			-20232			285	36	0000?0?000
4827S	11 44 3	-63 30.7	36 3.0			-1.4(.4)	-3.9(.4)					296	-2	00?000006+
4828S	11 45 47	-43 46.2	22 3.3				-3.9(.4)					291	17	0?0000?040
1513S	11 46 41	-3 2.4	10 2.6		1.5(.3)				211		DO 3152	274	56	1000?10000
4829S	11 47 42	51 41.7	25 2.4		1.8(.4)				50214		DO 33833	144	63	1?6000?000
4830S	11 50 9	-7 20.5	10 2.6		1.1(.3)	-.7(.4)			-10259		S CRT	279	52	1000.0000
4831S	11 50 53	53 56.8	26 3.3		1.6(.4)	-.9(.4)	*		50215	4554	GAM UMA	141	61	?300?0000
1518S	11 52 18	-17 39.9	10 3.9		1.3(.3)							284	43	0000?10000
1520S	11 53 38	-29 17.3	10 3.8		*		-3.3(.4)					289	32	0000400+0
4832S	11 56 46	-29 44.3	10 3.8		1.8(.4)				-30186		GC 16393	290	32	0000?0?000
1524S	11 56 57	49 10.4	24 3.3		1.4(.3)		*					144	66	?1000?0000
1525S	11 57 14	-13 14.1	10 3.9			-.7(.4)						284	47	0000?0?000
4833S	11 58 9	-27 26.1	10 2.5				-3.9(.4)					289	34	0000400?0
1528S	11 58 21	3 5.6	12 4.1		1.6(.4)	-2.3(.3)						274	63	+0001?0000
4834S	11 58 42	-62 50.0	22 2.4				-4.5(.6)	-6.2(.6)			NGC 4052	297	-1	0000?00014
1529S	11 59 49	35 37.7	18 2.2				-3.1(.4)					172	77	4000?0000
1530S	11 59 52	21 16.4	17 2.9		1.4(.3)							239	77	1000?0000
4835S	12 1 43	19 3.5	17 3.0		1.2(.3)				20237		R COM	248	76	1000000000
1533S	12 3 3	-24 36.2	9 3.8				-3.4(.4)					290	37	0000400+0
1534S	12 4 20	19 58.5	17 3.0				-3.2(.4)					247	77	4000?0000
4836S	12 7 34	-58 44.8	17 2.2			-1.6(.4)					AY CRU	298	3	000000027
1537S	12 8 8	35 24.5	18 2.1		1.4(.3)							168	78	1000?0000
1538S	12 8 57	51 23.9	25 2.6		1.4(.3)							138	65	1?0000?000
1540S	12 10 0	21 5.4	17 2.9		1.6(.?							246	79	1000?0000
1541S	12 12 10	43 11.3	23 2.5		1.6(.3)							140	68	1?0000?000
4837S	12 17 20	11 53.4	17 3.3		1.8(.4)				10251		IC 3159	276	73	1000?0?000
4838S	12 17 46	-8 42.7	9 2.2		1.4(.4)				-10265		CH VIR	290	53	1000?0000
4839S	12 17 47	3 35.1	16 3.3		1.1(.3)				215	4695	16 VIR	284	65	1000000000

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GL	RA(1950) H M S	DEC(1950) ° ′	EA s	ED ′	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
1546S	12 19 24	-10 2.5	15	3.4	1.4(.2)								291	52	1000?0000
4840S	12 19 45	5 8.4	16	3.3	1.3(.3)				10252		DO 3219	R	284	67	1000000000
4841S	12 20 12	77 10.3	70	2.5	1.3(.3)		•						125	40	?10???000
4842S	12 21 33	6 15.6	16	3.3	2.0(.5)				10253		DO 3224		295	68	1000000000
4843S	12 21 35	25 49.9	17	2.6			-1.6(.4)				IC 3277.EQ		226	84	4000000000
4844S	12 23 3	-59 42.1	3:	2.8		-1.7(.4)					ST CRU		:00	3	0000000??
4845S	12 23 43	-59 19.8	20	2.4		-1.6(.4)	-3.2(.6)				SVS 1860		3?0	3	0000000024
1553S	12 25 52	-8 23.2	16	3.6	1.4(.3)							R	293	54	1000?0000
4846S	12 26 37	-3 48.0	10	3.8	1.5(.4)	.2(.4)			218		DO 3236		292	58	?000?0000
4847S	12 26 37	-2 6.7	10	3.9	1.4(.4)				219		DO 3235		292	60	+0001?0000
4848S	12 26 56	-76 46 0	67	2.3		-1.8(.4)	-3.1(.5)						302	-14	0000000060
4849S	12 27 55	31 49.0	18	2.4	1.7(.4)				30239		T CVN		168	84	1000?0000
1556S	12 28 17	69 54.1	46	2.7	1.3(.3)		•						126	47	?100000000
4850S	12 29 55	15 35.9	17	3.1	1.5(.3)						IC 3462		281	77	1000?0000
1557S	12 30 39	40 32.4	20	2.4	1.4(.3)								138	76	1?00:.0?00
4851S	12 31 11	-7 3.8	16	3.6			-3.6(.5)				IC 0799		295	55	4000?0000
4852S	12 31 19	41 39.0	21	2.5	1.5(.3)				40236	4785	BET CVN	R	136	75	1?000?000
1561S	12 32 33	70 17.8	33	2.2	1.6(.3)				70114	4795	6 DRA		125	47	1100?0000
4853S	12 32 43	18 38.4	17	3.2	1.5(.5)				20244	4792	24 COM		279	80	1000?0000
1562S	12 33 30	21 .8	17	3.1		-.6(.4)							273	83	2000000000
4854S	12 36 12	-4 4.7	16	3.8	1.3(.4)				222		DO 3265		297	58	1000?0000
4855S	12 36 31	-30 13.9	18	3.2		-2.3(.4)					SVS 101308		300	32	0000+0??0
1568S	12 37 20	36 42.6	11	2.2	1.2(.3)	-1.1(.4)	•						137	80	+300?0000
4856S	12 38 12	-61 28.1	33	2.7		-1.4(.4)	-3.3(.5)	-6.3(.6)					302	1	0000?0077
4857S	12 38 35	-27 33.9	7	3.7	1.4(.4)				-30193		GC 17255		300	35	0000?0000
4858S	12 38 41	11 41.7	17	3.3			-2.9(.4)				IC 3653		294	74	4000:0000
4859S	12 39 2	-37 21.9	11	2.2		-1.2(.5)	-2.7(.5)				V453 CEN		301	25	0?000000?0
4860S	12 39 19	-7 14.5	15	3.7	1.5(.3)				-10271		GC 17277		299	55	1000?0000
1572S	12 39 42	-13 50.4	8	3.7	1.2(.3)								300	49	+0001?0000
4861S	12 40 38	-24 42.8	7	1.7	1.3(.4)				-20244		GC 17299		301	38	0000?0000
1574S	12 40 40	9 31.5	16	3.4		-.4(.4)							296	72	2000?0000
4862S	12 40 47	10 23.5	16	3.4	1.5(.4)				10258		DO 3275		296	73	1000?0000
4863S	12 40 59	77 52.1	72	2.2			-3.3(.4)						124	40	?40+??00
1577S	12 41 30	47 58.3	24	3.1			-3.4(.4)						126	69	4?000?00
1578S	12 43 46	53 28.0	28	3.4	1.2(.3)								125	64	1?00:?000
4864S	12 44 9	-33 6.9	7	3.8	1.8(.4)				-30177E	4880	GC 17360.EQ		302	29	0000?000
4865S	12 44 48	38 40.3	19	2.4	1.5(.5)				30238		U CVN		127	79	1?00:?000
4866S	12 45 7	67 6.3	41	3.7	1.7(.5)				70115	4863	7 DRA		124	50	1?000?000
4867S	12 45 24	30 2.7	17	1.7		-.6(.4)					IC 0821		139	87	2000?0000
4868S	12 50 0	17 22.6	17	3.3	2.0(.4)				20249	4864	32 COM		304	80	1000?0000
4869S	12 51 8	-25 43.7	9	2.4	1.2(.3)	-1.3(.5)			-30198		SVS 1948		303	37	+0001?020
4870S	12 51 26	46 55 0	16	2.1	1.3(.4)	-1.4(.5)			50221		DO 34220		122	70	2100?0000
4871S	12 52 49	11 44.8	17	3.5	1.7(.4)				10259		DO 3298		305	74	1000?0000
1587S	12 54 15	-22 59.2	6	3.6	•		-3.3(.4)						305	40	+0040?070
1590S	12 56 48	0 29.0	9	3.6		-1.0(.4)							307	63	?00?20000
4872S	12 57 5	76 41.9	42	2.4	1.6(.4)	-.2(.4)							122	41	3?00??000
1591S	12 57 22	19 38.0	17	3.1		-1.1(.4)	-3.4(.4)				DO 14510		317	82	6000?0000
4873S	12 57 49	-51 51.6	26	2.8			-3.6(.5)						304	11	0000?0040
4874_	12 57 54	66 53.1	40	2.4	1.5(.4)		•		70117	4928	9 DRA		122	50	?100?0000
1595S	13 0 1	17 7.8	17	3.3	1.5(.3)		-2.3(.6)						317	79	5000?0000

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GL	RA(1950) H M S	DEC(1950) ° '	EA S	ED '	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
4875S	13 0 30	-63 23.1	34	2.4		-1.5(.4)					TY CEN		304	-1	00000002?
4876S	13 0 42	5 8.4	17	3.8	1.6(.4)				10263		DO 3311		311	68	1000000000
15985	13 2 7	69 25.6	44	2.3	1.5(.4)	-1.2(.4)							121	48	?3000?0000
4877S	13 4 14	-5 38.6	8	3.7			-3.1(.4)				YY VIR	R	310	57	?000400+0
4878S	13 4 41	27 54.1	18	3.3	1.4(.4)		*		30245	4954	41 COM	R	42	86	0100003000
1600S	13 5 58	39 26.8	20	3.0	1.4(.3)		*						108	77	0100000000
4879S	13 6 7	-32 47.8	7	3.7	*	-.9(.4)			-30202			EO	307	30	0000230?0
4880S	13 7 28	-55 34.9	28	2.6			-3.4(.5)	-6.6(.6)					306	7	0000005?
1601S	13 8 36	-30 38.1	7	3.7	*		-3.2(.4)						308	32	0000430+0
4881S	13 8 52	-62 50.4	33	2.3		-1.9(.4)						R	305	-0	00000002?
1603S	13 8 54	-29 35.3	7	3.7			-3.3(.4)						308	33	0000430+0
4882S	13 9 5	-47 55.7	24	2.8			-2.9(.5)						306	15	0000030?0
4883S	13 9 46	56 40.8	30	3.8	1.5(.5)				60223		UW UMA		117	60	1?0000?000
4884S	13 9 59	11 49.2	17	3.6	1.5(.4)				10266	4986	GC 17884		322	74	1000003000
1605S	13 10 22	42 29.7	21	2.9	1.5(.3)		*						108	74	0100003000
1607S	13 11 34	5 37.1	17	3.8	1.6(.3)								318	68	1000000000
4885S	13 12 35	4 47.6	17	3.8	1.2(.4)				231		DO 3327		318	67	1000000000
4886S	13 12 42	-12 11.0	16	3.3		-1.5(.4)							312	50	?000+?020
4887S	13 13 17	-19 44.2	8	3.7	1.4(.4)				-20248	5001	57 VIR		311	42	+0001?000
1609S	13 13 33	-0 54.9	16	3.8			-3.4(.4)						316	61	4000?0070
1613S	13 15 41	32 28.9	18	3.1	1.5(.3)		*						76	82	0100000000
4888S	13 18 2	-11 12.9	15	3.8	1.5(.4)				-10283		SVS 101376		314	51	1000?0000
1616S	13 18 5	71 4.9	46	2.0		-1.6(.4)	*						120	46	+2000?000
4889S	13 18 55	75 52.4	59	1.7	1.2(.3)		*						121	41	+1000?600
4890S	13 19 35	-62 24.1	16	2.0		-1.5(.4)							307	-0	00000002?
4891S	13 20 27	-18 3.7	15	3.9	1.6(.3)				-20251				313	44	1000?0000
4892S	13 20 28	59 29.6	32	3.9	1.5(.3)						SVS 101379		116	57	1?0000?000
1619S	13 20 43	42 21.3	21	2.8	1.6(.3)		*						102	74	0100000000
4893S	13 20 44	-24 22.8	8	3.7	1.2(.3)				-20252				312	38	+0001?000
4894S	13 20 50	-4 38.8	15	3.9	1.8(.4)				234	5047	65 VIR		316	57	?000?0?00
1621S	13 21 50	55 10.2	19	2.2	1.3(.3)		-2.9(.5)		60224	5054	ZET UMA		113	62	1500030?0
4895S	13 23 54	-40 26.7	21	2.9			-3.2(.4)						310	22	0000?0040
4896S	13 24 26	72 37.4	49	1.8	1.4(.3)				70118	5073	DO 34384,EO		119	45	?1000?0000
1623S	13 24 58	-22 47.9	15	4.0	.9(.3)								314	39	1000+0000
4897S	13 25 5	-27 5.9	14	3.9			-3.7(.4)				IC 4255		313	35	4000?00+0
1626S	13 26 46	-10 50.8	15	4.0	1.5(.3)	-.2(.4)							318	51	3000?0070
4898S	13 26 47	-38 5.2	20	3.0			-2.9(.5)						311	24	0000?0040
4899S	13 28 43	-25 37.5	8	3.8	2.0(.3)						IC 4274		314	36	?000?0000
1630S	13 29 12	23 6.5	17	3.3	1.4(.3)		*						10	80	0100000000
4900S	13 30 22	-9 52.7	9	2.8	1.8(.4)	-.5(.4)			-10289	5100	76 VIR		319	51	1000?0070
4901S	13 31 12	-59 58.5	21	2.1				-6.3(.6)					309	2	0000000?11
1635S	13 31 41	25 18.6	17	3.2	1.2(.3)								23	80	0100000000
4902S	13 33 27	-62 35.3	15	1.9		-1.3(.4)					OV CEN	R	308	-0	00000002?
1638S	13 33 43	-2 59.3	10	2.8	.0(.3)		-2.8(.4)						324	58	4000?0070
4903S	13 34 20	-33 49.8	19	3.1			-3.0(.5)				IC 4299	R	314	28	0000+0040
4904S	13 34 40	24 52.5	17	3.2	1.2(.3)		*		20260	5123	DO 14781		22	79	0100000000
4905S	13 35 34	50 58.0	25	2.7	1.6(.4)		*		50230	5133	GC 18437		106	65	0100000000
4906S	13 35 38	-33 37.8	11	2.3		-1.6(.4)	-2.5(.5)						314	28	0000+0060
1639S	13 38 7	-11 11.8	9	2.8	1.4(.3)				-10291				321	50	1000?0000
1640S	13 36 18	1 26.6	11	4.0			-2.9(.4)						329	62	?000400+0

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) D '	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II	B II	OBS. LOG
			S	'									D	D	
4907S	13 36 38	-62 50.3	15	1.9			-2.8(.4)						308	-1	00C0C0047
4908S	13 38 8	-52 15.2	17	2.2				-6.1(.6)			FI CEN		311	10	0000C0011
1641S	13 38 8	-30 14.4	9	3.8		-1.8(.4)							315	31	+0002C070
4909S	13 38 42	-33 20.7	8	3.8	1.4(.4)				-30189E	5147	T CEN.EO		315	28	000010000
4910S	13 39 39	-19 7.8	10	2.3	1.6(.4)				-20257				319	42	1000?0000
4911S	13 39 59	23 32.2	17	3.2	1.9(.4)		•		20261		DO 14793		17	78	0100C0C00
1644S	13 41 8	-9 20.3	10	3.9		-.7(.4)							324	51	?0002C070
4912S	13 41 13	-61 49.1	31	1.9			-3.5(.4)					R	309	0	0C00C004+
4913S	13 43 5	-0 11.0	8	2.2	1.8(.4)	-1.6(.4)	-2.8(.4)						330	60	10C040020
1647S	13 44 21	25 27.1	17	3.2	1.2(.3)		•						27	77	0100C0000
1649S	13 45 7	12 56.4	16	3.4	1.4(.3)								348	70	010000000
4914S	13 45 17	47 58.1	24	2.7	1.2(.4)		•		50232		DO 34472		99	67	01000 1000
4915S	13 45 42	-27 55.8	18	3.2			-3.7(.5)						318	33	?000+ 1040
4916S	13 45 57	49 34.6	24	2.7	1.4(.4)		•		50233	5191	ETA UMA		101	65	0100C0C00
4917S	13 47 3	0 17.7	15	3.5			-3.9(.4)					EO	333	60	+000?0040
4918S	13 47 19	-67 16.5	39	2.1		-1.7(.4)							309	-5	0000C0020
4919S	13 48 39	34 53.7	19	3.2	1.3(.4)		•		30250	5215	DO 14818		67	75	01000C000
4920S	13 49 28	11 28.6	16	3.5		-1.7(.4)	-3.5(.4)						348	69	0+00C0060
4921S	13 49 45	39 54.9	21	3.0	1.3(.5)		•		40249		DO 14822		82	72	0100C0C00
1657S	13 50 3	-17 21.8	14	4.0	1.5(.3)								323	43	1000?0000
4922S	13 51 56	-5 31.4	16	3.4		-1.8(.4)							330	54	?000+0020
4923S	13 52 30	16 39.7	18	3.3	1.2(.3)		•		20267	5235	ETA BOO		5	73	0100 0000
1662S	13 54 6	-11 10.6	10	3.9			-3.8(.4)						327	48	?00C4C0 0
1664S	13 56 8	11 11.2	16	3.4	1.3(.4)	-1.3(.4)							350	67	0300C0070
1665S	13 56 18	50 50.1	20	2.2	1.4(.4)	-1.2(.3)	-3.0(.5)						100	56	61C0C0000
1666S	13 55 31	-5 30.1	15	4.2	1.4(.3)								332	53	1000 0000
1667S	13 56 55	-18 41.5	10	3.9		-.8(.4)							325	41	?0002C070
1668S	13 57 4	40 32.1	21	2.9	1.4(.3)		•						80	71	0100C0000
4924S	13 57 59	38 5.4	20	3.0	1.1(.3)				40252		SVS 7093		74	72	010000000
4925S	13 58 0	-10 21.0	16	3.4		-1.7(.4)							329	49	?000+0020
1670S	13 58 6	62 13.0	32	4.2		-1.1(.4)							110	53	2000C0000
1671S	13 58 10	39 15.7	21	3.0	1.4(.3)		•						77	71	0100C0000
1672S	13 58 51	39 42.6	21	2.9	1.4(.3)		•						78	71	0100C0000
4926S	14 0 17	-7 20.0	11	2.7			-2.9(.4)						332	51	4000?0040
4927S	14 2 53	-35 14.6	11	2.3		-1.6(.4)		-8.2(.8)	-30200E		AQ CEN		320	25	+000 0030
4928S	14 3 58	17 9.9	18	3.3	1.3(.3)		•		20288		DO 14859.EO		6	70	0100C0000
1678S	14 4 44	-7 44.4	12	4.0	1.0(.3)								333	50	+000?0000
1679S	14 4 48	30 38.0	16	3.2	1.4(.3)		•						16	71	0100C0000
4929S	14 5 30	-60 55.7	31	2.3			-3.1(.4)						312	0	0000?0040
4930S	14 5 44	-8 37.7	11	2.7	1.7(.4)		-3.3(.5)		-10298				333	49	1000+0040
1681S	14 5 58	24 12.1	17	3.1	1.5(.3)		•						27	72	0100C0C00
4931S	14 6 8	-18 56.2	10	3.9	1.8(.4)				-20264		GC 19088		327	40	?000?0000
4932S	14 6 33	49 41.4	24	2.4	1.4(.4)		•		50237	5300	13 BOO		95	63	0100000000
1682S	14 6 40	-14 37.1	11	3.9		-.8(.4)							330	44	?000200?0
4933S	14 7 26	-30 35.4	19	3.1			-3.3(.5)				IC 4376		322	29	?000?0040
1693S	14 7 33	-15 8.3	14	4.1			-3.2(.4)						330	43	4000+0020
4934S	14 7 44	-19 1.9	17	3.4		-1.7(.4)					SVS 2113		327	40	?000+0020
4935S	14 8 4	-4 11.5	8	2.3			-2.7(.5)						337	53	?000?0040
4936S	14 12 22	-12 43.7	16	3.4			-2.9(.5)						332	45	?000?0040
4937S	14 15 18	-14 27.3	11	2.7	1.0(.3)	-1.6(.5)			-10303		AN VIR		332	43	1000+0020

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ' "	EA	ED	B(4)	B(11)	B(20)	B(27)	IRC	BS	COMMENTS		L II	B II	OBS. LOG
													°	°	
4938S	14 18 4	-61 11.0	16	2.2		-.1(.7)	-2.5(.5)				RCW 85		313	-0	0000000060
1699S	14 16 42	-20 25.9	12	4.0	1.4(.3)								329	38	1000?0000
4939S	14 18 13	5 42.0	10	2.7		-1.1(.5)	-2.9(.5)				IC 1003		351	60	0+0040020
4940S	14 18 56	-2 5.8	13	4.0	1.3(.4)				241		DO 3479		343	53	0000100?0
1702S	14 20 40	-1 44.6	13	4.0			3.6(.4)						344	53	0000400+0
4941S	14 21 25	54 .9	20	2.3	.9(.3)		"				S 800		97	58	010000000
1705S	14 21 52	84 3.8	89	1.8	1.4(.4)		-3.0(.5)				R CAM		120	33	+10+5?200
4942S	14 21 56	-69 39.1	46	2.9		-1.8(.4)	-2.8(.5)						311	-9	3000?0060
4943S	14 22 2	27 39.2	18	3.2	1.7(.4)				30256		DO 14946	R	39	69	010000000
1707S	14 22 38	33 7.4	19	3.1	1.5(.3)		"						55	69	010000000
1709S	14 24 38	-24 59.0	11	3.9	"		-3.3(.4)						329	33	?0004000+0
4944S	14 26 2	-56 35.3	27	2.3			-3.5(.5)						316	4	000000042
4945S	14 26 16	-53 57.5	25	2.1			-3.6(.5)						317	6	00000004+
4946S	14 26 45	26 6.6	18	3.3	1.4(.4)				30258		DO 14972		35	68	010000000
4947S	14 27 50	39 4.5	21	3.0	.3(.3)		"		40257		V 800		69	66	0100?0060
4948S	14 29 45	38 29.7	21	3.0	1.3(.4)		"		40258	5435	GAM 800.E0		67	66	010000000
1717S	14 30 23	7 19.6	15	4.2	1.7(.3)								358	59	0?0010000
4949S	14 34 23	-14 17.5	10	2.6		-1.1(.4)							338	41	?000020020
4950S	14 34 48	26 55.7	18	3.2	1.6(.4)		"		30250		R 800		38	67	010000000
4951S	14 35 32	3 40.3	14	4.2	1.4(.4)				246		CR VIR	R	355	55	0?0010000
4952S	14 35 48	-3 20.4	13	4.0	1.8(.3)				247		DO 3536		347	50	0?0010000
4953S	14 36 38	-10 23.9	16	3.6			-3.0(.5)	-6.3(.6)					341	44	?000?0050
4954S	14 38 16	-25 8.3	12	3.9	1.9(.4)				-30223				332	31	?00010000
4955S	14 38 16	15 42.1	15	3.7		-2.1(.4)							14	62	0+0000020
4955S	14 39 6	-28 47.7	12	3.9	1.6(.4)				-30224				330	28	?00010000
1721S	14 39 19	-26 3.7	8	2.8		-1.8(.5)							332	30	2000200+0
4957S	14 39 31	-3 21.5	13	4.0	1.4(.4)				248		DO 3549		348	49	0+0010000
1723S	14 40 32	-28 35.0	12	3.9			-3.2(.4)						332	30	?0004000+0
4958S	14 40 49	-48 55.2	22	2.1			-3.8(.4)						321	10	00000004+
4959S	14 42 21	-37 25.5	11	2.6			-4.2(.4)						327	20	4000000+4
1727S	14 43 2	-25 58 0	12	3.9			-3.3(.4)						333	30	+0004007?0
1729S	14 43 53	-20 20.7	12	4.0		-1.0(.4)							336	35	2000+007?0
4960S	14 44 20	7 28.4	15	4.1	.9(.3)				10282		DO 3568		2	56	0+0010000
4961S	14 44 30	5 3.7	15	3.5	1.6(.4)				10283		BG VIR		359	55	0100?0000
1730S	14 44 33	0 22.2	14	4.0		-1.0(.4)							354	51	0+0020070
1731S	14 44 43	-12 29.3	12	4.0		-.8(.4)							342	41	?000207?0
4962S	14 45 29	-24 2.5	12	3.9	1.6(.3)				-20270	5521	GC 19936		335	31	?00010000
4963S	14 47 35	-43 21.3	21	2.8		-1.7(.4)	-2.3(.6)					R	325	14	000000067
4964S	14 48 25	37 28.4	20	3.0	1.6(.4)		"		40262	5541	GC 19982		62	63	010000000
1737S	14 49 53	-28 31.7	12	3.9	1 1(.3)						SVS 2212		333	27	+00010000
1739S	14 50 37	21 33.1	17	3.4	1.1(.3)								28	62	010000000
1741S	14 52 12	-2 29.6	14	4.0	"		-3.9(.4)						353	48	0?00400+0
4965S	14 52 25	-21 49.0	10	3.9	1.4(.3)				-20274		IG LIB		337	32	1000?0000
1742S	14 53 41	-25 12.9	10	3.9	1.2(.3)								336	29	1000+0000
4966S	14 53 45	6 2.7	10	2.4		-1.7(.4)							3	53	0+00?0020
4967S	14 54 5	-11 10.1	13	3.9	"		-2.9(.4)		-10307	5564	XI2 LIB		345	41	?0004000+0
4968S	14 54 34	-59 48.4	32	3.1		-1.4(.4)	-3.1(.5)						318	-1	000000060
4969S	14 54 43	75 1.2	52	3.8	.8(.4)				80029		DO 34808		113	40	+000+1000
4970S	14 54 52	-27 52.2	11	2.5	1.8(.4)	-1.2(.4)	-2.9(.5)						334	27	?00030060
4971S	14 54 59	-28 58.2	11	2.5			-2.9(.5)						334	26	?00000040

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′ ″	EA	ED	M(4)	M(11)	M(20)	M(37)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
4972S	14 57 18	-58 45.1	31	3.0			-2.7(.5)	-5.3(.6)				R	319	-0	000000050
4973S	14 58 35	-2 31.2	13	3.9	.9(.3)				257	5590	DO 3619		354	47	0+0010000
1747S	14 58 41	-18 36.3	8	2.7	1.8(.3)				-20278				341	34	100010000
4974S	14 59 18	0 3.5	14	4.0	1.2(.4)				258	5594	DO 3622		357	48	0?0010000
1749S	15 0 16	2 18.9	8	2.3	1.7(.3)	-.4(.5)			259	5601	110 VIR		0	50	03C01C0?0
4975S	15 0 20	31 52.1	19	3.2	.5(.4)		•		30267		SVS 7168		50	61	010000000
4976S	15 2 11	-7 50.7	13	3.9	1.7(.5)				-10311				350	42	0?0010000
4977S	15 2 32	27 10.1	18	3.4	1.4(.4)		•		30268	5616	PSI 800		40	60	010000000
4978S	15 3 34	-57 33.7	16	2.7			-2.9(.4)				RCW 88	R	320	0	000000040
4979S	15 3 55	-16 2.8	10	3.9	1.6(.5)				-20279	5622	NUU LIB		344	36	1000?0000
4980S	15 5 43	-68 58.1	46	3.4			-3.5(.4)						315	-10	000000040
4981S	15 5 48	-58 26.2	31	3.2		-1.7(.4)	-2.8(.5)					R	320	-0	0C00C0060
4982S	15 6 8	-0 48.9	14	3.6	1.1(.3)		•		280		DO 3645		358	47	0100+0000
4583S	15 7 38	65 57.9	26	3.9	1.9(.4)				70127		DO 34867.EO		104	46	100000200
4984S	15 8 5	11 51.8	16	3.6	1.4(.4)				10286		DO 3653		14	54	010070000
4965S	15 9 10	-69 53.1	48	3.5		-1.9(.4)					X TRA		315	-10	000000020
4986S	15 9 48	22 30.2	18	3.5	1.9(.4)				20278		DO 15199		32	58	010000000
1755S	15 12 12	15 20.3	17	4.0	•		-3.5(.4)						20	55	0?0040070
1759S	15 14 13	-12 33.0	8	2.7	1.5(.3)		3.7(.4)						349	37	1?0050070
4987S	15 15 24	-27 43.2	9	3.7	1.3(.3)				-30232		AR LIB		339	25	100000000
4988S	15 15 44	-0 16.6	9	2.2	2.1(.4)	-.6(.4)	•		263	5690	GC 20570		1	45	03C0?0070
4989S	15 16 33	72 2.2	51	3.1	1.6(.4)		•		70128	5714	11 UMI.EO		109	41	?10C??000
1762S	15 18 9	16 46.4	11	2.7		-.0(.4)	-3.0(.5)						24	54	0?0050070
4990S	15 19 17	31 36.0	16	3.8		-2.0(.4)			30272		S CRB		50	57	005000020
4991S	15 20 14	-14 54.7	10	3.7	1.7(.4)				-10319		GC 20683		349	34	1000?0000
4992S	15 20 49	-9 32.0	10	3.7	1.5(.3)								353	38	1?00?0000
4993S	15 21 59	15 39.3	11	2.6		-1.1(.5)					IC 1117		23	53	020070020
4994S	15 22 6	-26 32.5	8	3.7	1.8(.4)				-30235				341	25	100000000
1768S	15 22 10	9 5.1	15	3.9		-1.2(.4)							14	50	0?0020070
4995S	15 24 2	17 8.5	15	3.9			-3.0(.4)						25	53	0000?0040
4996S	15 24 53	-37 8.8	11	2.5	1.5(.4)			-6.7(.8)	-30221E				334	16	100000001
4997S	15 25 15	25 15.4	18	3.4	1.6(.4)				30274	5748	DO 15250		39	55	010000000
4998S	15 25 35	-16 36.5	13	3.8	1.5(.4)				-20287	5743	32 LIB		348	32	?000010000
4999S	15 26 9	-11 44.3	9	3.7	1.4(.3)								353	35	1?00?0000
5000S	15 27 11	17 44.2	15	3.9			-3.0(.5)						27	52	000070040
5001S	15 27 27	-12 44.4	13	3.8	•		-3.8(.4)				SVS 2352		352	34	??00400+0
1774S	15 27 48	-13 13.4	10	2.7	1.5(.3)								352	34	?10010000
1775S	15 28 26	-22 45.9	8	3.6	1.3(.3)								344	27	1000?0000
5002S	15 28 31	-70 18.2	49	3.7		-1.7(.4)							316	-12	000000020
1778S	15 30 0	-16 53.8	8	2.6		-.7(.4)	-3.5(.4)						349	31	2000400+0
1779S	15 30 19	13 42.6	17	4.0	1.7(.3)								21	50	0?0010000
5003S	15 30 21	-27 2.3	8	3.6	1.2(.3)				-30236		SV LIB		342	23	100000000
5004S	15 30 39	-37 28.5	8	3.6	1.0(.4)				-30223E			EO	335	15	100000000
1781S	15 31 23	-18 21.8	8	3.6	1.6(.3)								348	30	1000?0000
5005S	15 31 38	-27 52.4	8	3.6	1.7(.5)				-30237	5775	36 LIB		342	22	100000000
5006S	15 32 21	-23 43.8	7	3.6	2.0(.3)						TU LIB		345	25	1000?0000
5007S	15 32 45	-14 34.6	9	3.6	1.6(.4)				-10323	5787	GAM LIB		352	32	1?00?0000
5008S	15 33 42	-37 38.3	8	3.6	1.4(.4)				-30226E		SW LUP.EO		336	14	100000000
1791S	15 36 9	-8 24.0	13	3.8	1.4(.3)								358	36	0?0010000
5009S	15 36 46	33 2.7	16	3.9		-2.0(.4)							52	54	000000020

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ' "	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
5010S	15 36 57	-10 47.7	15	3.7	1.7(.4)				10292		DO 3798		19	47	0100?0000
5011S	15 41 40	-2 36.4	15	3.8	1.4(.4)		*		270		DO 3813		10	42	0100?0000
5012S	15 42 21	-20 2.4	15	3.9			-3.5(.5)						32	50	0000?0040
1795S	15 44 43	-11 24.4	16	3.8		-1.4(.4)							21	46	000020?0
1797S	15 46 20	-5 .1	15	3.8		-1.1(.4)	*						13	42	0200+00?0
5013S	15 47 49	-12 39.9	10	3.8	1.6(.3)								356	31	1?00?0000
5014S	15 47 54	-34 55.8	9	3.7	1.8(.4)	-1.3(.4)					SVS 2476.EO		340	15	30000000?
5015S	15 48 19	-31 33.8	10	1.9		-.5(.5)	-3.5(.5)				FO LUP		342	17	600000004
5016S	15 48 28	-37 58.4	9	3.7	1.4(.4)				-30232E			EO	338	12	100000000
5017S	15 50 2	-36 27.7	9	3.7	1.9(.5)				-30233E				339	13	100000000
5018S	15 50 53	-18 50.9	10	2.7	1.1(.4)		-3.9(.5)		-20297				352	26	?1004000+
5019S	15 51 42	-20 35.6	14	3.7	1.5(.4)				-20298				351	25	?00010000
5020S	15 51 52	-20 44.7	14	3.7	*	-1.3(.4)			-20298			R	350	25	?0302000?
5021S	15 52 29	-20 25.9	18	3.8	1.2(.4)				20288	5924	DO 15359		34	48	000010000
1808S	15 52 36	-5 5.2	15	3.8		-1.5(.4)	*						14	41	0200+00?0
1810S	15 52 45	-12 40.8	7	2.2	1.8(.4)				-10327		SW LIB		357	30	110010000
1812S	15 52 56	-8 5.1	13	3.8		-1.2(.4)	*						1	33	0200+00?0
1813S	15 54 8	-18 32.1	8	2.7	1.6(.4)		-3.3(.4)						353	26	5400?000?
5022S	15 54 11	-36 3.6	9	3.7	1.5(.4)	-1.0(.5)	-2.5(.7)		-30236E	5929	SVS 2507.EO		340	13	700000000
5023S	15 54 12	-34 14.5	9	3.7	1.7(.4)				-30235E				341	14	100000000
1815S	15 54 46	-29 8.1	10	3.8	1.4(.3)						SVS 2513		345	18	100000000
5024S	15 57 15	-22 33.8	9	3.8	2.1(.5)				-20303	5953	DEL SCO		350	22	100000000
5025S	15 59 15	-25 16.5	14	3.9			-3.0(.5)	-6.4(.6)					41	48	0000?0050
5026S	16 0 24	-25 46.4	50	3.8	1.9(.5)				-30252	5969	GC 21556		348	20	100000000
1820S	16 1 35	-15 1.6	11	2.5	1.4(.4)	-.7(.4)					IC 1168		28	44	03002000
5027S	16 1 56	-85 41.0	210	3.7	1.6(.3)						SVS 2641		119	30	??0?1?700
5028S	16 3 9	-37 49.9	10	3.8	1.6(.4)	*			-30241E			EO	340	10	100000000
5029S	16 4 24	-3 43.6	8	2.2	1.5(.4)	-1.7(.5)			278		DO 3950		7	34	010010020
5030S	16 4 50	-4 57.3	14	3.9	1.4(.4)		*				SVS 2564		6	33	0100?0000
5031S	16 5 7	-6 13.2	14	4.0	1.5(.4)		*				IC 4589		5	32	0100?0000
1824S	16 5 55	-0 54.2	15	3.7	1.7(.3)								10	35	0?001?000
1827S	16 6 40	-3 1.7	14	3.9	1.2(.3)								8	34	0100+0000
5032S	16 7 48	-29 15.0	11	3.8	1.5(.4)				-30256	6017	GC 21749		347	16	100000000
5033S	16 7 55	-10 44.1	14	4.0			-3.6(.4)						23	41	0000?0040
1833S	16 9 28	-3 51.6	9	2.3		-1.1(.4)	*						16	37	0200+00?0
5034S	16 10 16	-25 3.3	18	3.4	1.9(.4)				30284		VV HER		42	45	000010000
5035S	16 10 32	-10 12.2	12	4.0	1.8(.5)				-10333		BR SCO		3	28	1?00?0000
5036S	16 10 55	-5 5.8	15	3.7	1.9(.4)				10304	6047	9 HER		18	37	000010000
1836S	16 11 31	-36 40.3	11	3.8			-3.8(.4)						342	10	400000000
5037S	16 12 46	-6 26.9	14	4.0	1.3(.3)		*				BE OPH		8	30	0100?0000
5038S	16 12 54	-11 31.4	14	4.0		-1.4(.4)					IC 1206		25	40	0000?0020
5039S	16 15 42	-28 34.7	11	3.9	1.3(.5)				-30258				349	15	100000000
5040S	16 15 55	-25 59.3	14	4.0			-3.4(.5)						44	44	0000?0040
1839S	16 16 4	-1 37.6	14	3.8		-.9(.4)							11	32	0?0020?0
1840S	16 16 7	-14 48.4	9	2.7	1.7(.4)				-10338	6078	GC 21934		0	24	1?0010000
1842S	16 16 47	-17 44.5	11	3.9	1.5(.3)								357	22	1?0000000
5041S	16 16 57	-22 9.8	13	3.9	1.2(.4)		*		-20310				354	19	?1000000
5042S	16 18 48	-81 35.9	87	3.9			-3.1(.4)						115	32	400??+000
5043S	16 19 31	-24 29.9	14	4.0		-2.5(.4)							42	43	0000+0020
1849S	16 19 46	-84 11.7	37	2.9	*		-3.4(.4)						96	40	+00040000

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′ ″	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
5044S	16 21 1	-30 54.7	12	2.8		-1.0(.5)			30290		RY CRB		51	44	000020020
5045S	16 24 4	-31 10.2	11	3.8	1.4(.4)				-30264		NW SCO		348	12	100000000
5046S	16 24 6	-9 41.6	13	4.1	1.4(.3)						V705 OPH		5	26	1?00?0000
5047S	16 24 11	-2 30.3	13	3.9	2.0(.4)		•		284		V707 OPH		12	30	0100?0000
5048S	16 24 37	-35 1.3	9	2.0	.8(.3)	-1.4(.4)			-30248E				345	9	300000000
5049S	16 25 7	3 0.0	15	4.0	1.5(.4)				285		DO 4057		18	33	0100?0000
5050S	16 25 31	-35 34.2	11	3.9	1.5(.3)				-30250E			EO	345	9	100000000
5051S	16 26 38	-19 12.7	13	3.9	1.1(.3)		•		-20317		V SCO		358	20	4100000000
5052S	16 26 50	-3 26.8	13	3.9	1.5(.3)		•				SVS 2714	R	11	29	0100?0000
5053S	16 27 15	0 1.8	14	3.6	1.6(.4)				287		DO 4069		15	31	0?00100000
5054S	16 28 31	-10 28.7	13	4.1	1.4(.3)								8	25	1?00?0000
1855S	16 29 54	56 39.6	27	2.3	•		-3.1(.4)						86	42	000040000
1866S	16 29 59	-16 .6	12	4.0	1.8(.3)								1	21	1?0000000
1867S	16 30 2	50 56.0	24	2.3	•		-3.2(.4)						78	43	000040000
5055S	16 30 30	11 32.6	16	3.6	1.0(.3)	-.9(.4)			10307	6159	29 HER		27	36	0000300?0
5056S	16 32 25	-24 46.1	12	3.9	1.7(.4)				-20320		KV SCO		354	15	1000000000
5057S	16 33 48	-27 56.7	12	3.9	1.2(.4)						RCW 129		352	13	1000000000
5058S	16 34 1	5 2.6	14	4.0	1.9(.4)		•		10308		DO 4100		21	32	0100?0000
5059S	16 34 18	5 6.1	15	3.5	2.0(.5)				10308		DO 4100		21	32	0000100000
5060S	16 34 27	-10 28.3	8	2.1	1.9(.4)	-3.1(.5)	-3.2(.5)		-10343	6175	ZET OPH	R	6	24	4+0010006
5061S	16 34 45	-35 19.5	12	3.9	2.1(.4)				-30255E			EO	346	8	100000000
1877S	16 37 18	-33 56.5	12	3.9	1.3(.3)								348	8	100000000
5062S	16 37 39	-20 21.7	12	3.9	1.3(.4)				-20323				358	17	1+0000000
1881S	16 38 20	-11 42.7	9	2.8	1.7(.3)				-10345		GC 22436		6	22	1100?0000
1882S	16 38 43	-17 41.4	9	2.8	1.5(.3)				-20325	6196	GC 22449		1	18	1100000000
5063S	16 39 48	16 49.0	16	3.4		-.6(.4)						EO	35	36	0?002000?
5064S	16 41 57	-13 .4	13	4.0	1.5(.4)				-10346				4	20	1?0000000
5065S	16 43 24	-16 50.9	10	2.8	1.5(.4)			-8.6(.7)	-20329				2	18	1?0000001
1892S	16 45 51	-28 .8	13	4.0	1.1(.3)								354	11	1000000000
1897S	16 47 18	-13 36.3	13	4.0		-2.3(.3)							6	19	2+0000007
1901S	16 48 33	-23 30.6	13	4.0			-2.7(.4)						357	13	4?0000000
5066S	16 48 58	-7 3.1	14	4.1	1.5(.3)	-.2(.4)							13	23	3?00?0007
5067S	16 50 14	-21 36.5	12	3.9	1.6(.3)	-1.1(.4)			-20335				359	14	?300000000
5068S	16 50 20	8 27.1	11	3.6	.7(.4)				10314		RR OPH		24	29	0100?0000
1907S	16 51 21	-8 38.9	9	2.7		-.8(.4)			-10349				12	22	?2007?007
5069S	16 52 3	-8 7.8	14	4.2	1.8(.5)				-10351	6290	23 OPH		13	22	1?00?0000
5070S	16 52 38	-33 21.6	13	3.9	1.1(.4)				-30260E	6282	GC 22801	EO	350	6	100000000
5071S	16 52 41	49 .8	24	2.4		-1.1(.4)			50257		AI HER		75	39	000020000
5072S	16 52 41	82 9.8	119	3.2	1.5(.4)					6322	EPS UMI		115	31	?00+1??00
5073S	16 52 59	18 31.3	16	3.4	1.3(.4)				20309	6293	54 HER		38	34	000010000
5074S	16 54 7	-33 14.8	13	3.9	1.5(.4)				-30270E	6288	27 SCO	EO	351	6	100000000
5075S	16 54 41	50 7.2	24	2.4	1.7(.4)				50259	6308	DO 35515		77	39	000010000
1912S	16 55 1	9 19.2	15	3.4		-1.2(.4)	-3.3(.4)						28	30	0000600+0
5076S	16 55 3	-9 25.8	14	4.2	1.9(.4)				-10353		V1055 OPH		10	20	1?0000000
5077S	16 55 6	-19 46.2	13	4.0	1.4(.4)				-20340				2	14	1?0000000
1913S	16 55 10	-1 15.5	14	3.5	•	-.8(.4)	-3.4(.4)						18	24	000060077
5078S	16 55 12	-2 41.4	12	4.0	1.5(.4)				293		SS OPH		16	24	0100?0000
1915S	16 55 48	16 22.5	16	3.4	1.7(.3)								36	32	000010000
5079S	16 57 5	-7 34.9	14	3.5	.9(.3)				-10354				12	21	+?0010000
5080S	16 57 30	-10 32.5	12	4.0	1.4(.4)		•		-10355				10	19	?100000000

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GL	RA(1950) H M S	DEC(1950) ° ′	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II °	B II °	OBS. LOG
5081S	16 58 3	-25 29.6	9	2.8	1.8(.4)						PT OPH	357	10	110000000
5082S	16 58 22	-4 8 5	15	4.2	1.0(.3)				294	6318	30 OPH	16	22	1+00+0000
5083S	16 59 38	20 32.4	13	4.0			-4.0(.4)					41	33	0000+0040
5084S	17 1 30	42 41.3	14	3.9			-3.9(.5)					67	37	0000+0040
5085S	17 3 41	72 18.8	44	4.1			-3.7(.4)					104	34	4000??000
5086S	17 4 24	22 7.7	17	3.3	1 4(.5)				20313	6364	GC 23089	43	32	000010000
5087S	17 4 24	-31 48.6	13	3.9	2.6(.5)	-.6(.6)			-30279		TU SCO,EO	353	5	300000000
1921S	17 4 47	-9 18.1	14	4.0			-2.8(.4)					12	18	4?0000??
5088S	17 5 44	78 21.5	53	4.0		-.5(.4)						108	33	2000??000
5089S	17 6 2	72 13.0	45	4.1	.8(.3)						EO	104	34	1000+?000
5090S	17 6 35	-31 17.7	10	2.2	2.2(.4)	-.8(.5)			-30281			354	5	300000000
1925S	17 6 51	49 5.7	24	2.5	1.2(.3)							75	37	000010000
5091S	17 8 51	27 38.1	18	3.2	1.2(.4)				30302		CX HER	50	33	000010000
1931S	17 9 59	29 46.0	18	3.1	*		-3.1(.4)					52	33	0000400+0
5092S	17 10 11	4 17.5	10	2.7		-1.7(.5)						25	24	0000?0022
5093S	17 10 38	-31 23.7	14	3.9	1.5(.4)				-30288		EO,R	354	4	100000000
5094S	17 11 7	-22 4.9	11	3.9	1.6(.4)						V1655 OPH	2	10	?10000000
1936S	17 11 22	4 56.8	15	3.4	*		-3.3(.4)					26	24	0000400+?
1939S	17 11 50	-4 44.4	10	2.9	1.7(.3)				296			17	19	110000000
5095S	17 12 12	-15 12.8	9	2.8	1.8(.3)						SVS 3043	8	13	110000000
1946S	17 12 25	-9 53.9	9	2.8	1.5(.4)				-10361		V505 OPH	12	16	110000000
5096S	17 12 33	-28 29.6	12	3.9	1.5(.4)		*		-30288	6401	36 OPH	358	7	+10000000
1949S	17 12 56	-3 10.8	14	3.4		-1.7(.4)	-3.8(.4)					18	20	+00060007
5097S	17 13 11	45 13.7	23	2.8	1.2(.4)				50263		DO 35850	71	35	000010000
5098S	17 14 7	4 46.6	15	3.4	1.5(.3)				298		UY OPH	26	23	000010000
5099S	17 15 12	-11 57.2	10	2.4	1.7(.4)	-.2(.5)			-10362		RV SER	11	14	3?0000000
5100S	17 15 21	-16 13.4	14	4.0	1.5(.5)				-20354	6428	GC 23357	7	12	1?0000000
5101S	17 16 24	10 52.2	15	3.3	1.0(.4)				10325	6433	GC 23382	32	25	000010000
5102S	17 16 44	-23 47.0	11	3.9		-.8(.4)	-3.0(.4)					1	8	?60000000
5103S	17 16 57	41 36.8	21	3.0	1.5(.3)				40296		SVS 101644	66	34	000010000
5104S	17 18 54	-14 33.6	15	4.1	1.5(.4)	-.8(.4)			-10365		SVS 3125	9	12	3+0000000
5105S	17 18 56	46 16.4	23	2.8	1.6(.4)		-2.5(.5)		50264	6464	74 HER	72	35	000050000
5106S	17 20 5	-28 4.4	14	3.9	1 5(.3)				-30291	6459	43 OPH	358	5	1?0000000
5107S	17 21 22	-22 19.9	9	2.8	1.7(.4)	-.6(.5)			-20359			3	8	120000000
1962S	17 21 31	10 7.8	8	2.2		-1.0(.4)						32	24	000020???
5108S	17 21 57	-6 57.8	15	4.0	1.3(.4)				-10367			16	16	1?0000000
5109S	17 22 43	16 49.8	11	4.0			-3.4(.4)					39	26	0000+0040
1966S	17 23 27	22 6.3	17	3.3		-1.1(.4)						45	28	0000200?0
5110S	17 23 42	12 36.7	10	2.7			-3.5(.6)	-6.1(.7)			AI OPH	35	25	0000?0014
5111S	17 23 46	-31 4.4	14	3.9	1.2(.3)		-2.5(.6)		-30297		SVS 101653,EO	356	2	500000000
5112S	17 24 48	-6 14.0	15	4.0	2.0(.4)				-10368		AK OPH	17	15	1?0000000
5113S	17 24 52	4 14.8	13	4.1			-3.5(.5)				VW OPH	27	21	0000?004+
5114S	17 25 27	8 27.7	15	3.3	1.3(.4)				10328		DO 4290	31	22	000010000
5115S	17 25 59	15 55.7	18	3.3	1.5(.4)				20324		SVS 7661	39	25	000010000
1973S	17 27 16	-18 54.3	10	3.9	1.4(.3)		*					7	8	?10000000
5116S	17 27 59	-23 34.5	14	4.0	1.5(.3)				-20366			3	6	1?0000000
5117S	17 29 38	39 42.8	12	3.8		-1.8(.4)						65	32	0060+0020
5118S	17 29 38	52 24.0	26	2.9	1.0(.4)				50266	6536	BET DRA	80	33	0000+1000
1979S	17 30 5	-22 24.4	9	2.8	1.5(.3)				-20368			4	6	110000000
1982S	17 31 5	-24 49.1	9	2.7	1.2(.3)				-20369			2	4	110000000

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GL	RA(1950) H M S	DEC(1950) ° '	EA	ED "	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II °	B II °	OBS. LOG
5119S	17 32 8	-7 12.5	10	2.5	1.7(.4)				-10370			17	13	1?0000000
1986S	17 32 22	15 20.2	16	3.3	1.9(.3)							39	24	000010000
5120S	17 32 43	-1 18.4	16	4.1	2.0(.5)				308			23	16	100000000
5121S	17 32 47	-14 17.3	14	3.9	1.1(.4)				-10372		SVS 3285	11	10	1?0000000
5122S	17 33 16	-22 24.2	8	2.0	1.5(.4)	-.8(.4)			-20371			4	5	73000000C0
1990S	17 34 27	-16 17.7	9	2.8	1.3(.4)				-20372			10	8	110000000
5123S	17 34 30	-15 19.3	14	3.9	1.5(.4)				-20373	6561	XI SER	11	9	1?0000000
5124S	17 35 23	-10 51.7	15	4.0		-.8(.4)			-10373	6568	GC 23897	15	11	2?0000000
5125S	17 35 48	-14 7.4	14	3.9	1.4(.4)				-10374			12	9	1?0000000
5126S	17 36 1	-21 37.1	10	3.8	1.5(.4)				-20375			5	5	?10000000
5127S	17 37 8	-24 37.6	14	3.8	1.1(.3)				-20376		V548 OPH	3	3	1+0000000
5128S	17 38 0	46 10.2	23	2.7	1.0(.4)				50271		SVS 101689	72	71	000010000
5129S	17 39 5	-6 25.5	15	3.9	1.6(.4)				-10375			19	12	100000000
5130S	17 39 16	11 42.5	11	3.9		-1.4(.4)	-2.8(.5)	-8.4(.8)			V813 OPH	36	21	0000?0077
5131S	17 39 55	-17 29.6	15	3.9	1.7(.4)				-20380			9	6	1?0000000
5132S	17 40 27	24 35.2	17	3.1	2.0(.4)				20329	6602	83 HER	49	25	000010000
5133S	17 40 41	-3 53.5	15	3.9	1.8(.4)				316		SVS 3395	21	13	100000000
2001S	17 41 22	-29 26.5	15	3.9			-4.1(.4)				R	359	-0	4?0000000
5134S	17 41 58	-18 38.0	9	3.8	1.4(.4)		•		-20382		SZ SGR	9	5	+10000000
5135S	17 42 9	-1 33.5	11	4.0	1.4(.4)				318		V935 OPH	24	14	?10000000
5136S	17 42 38	-28 34.4	15	3.9	1.7(.4)				-30322		EO	0	0	1?0000000
5137S	17 42 56	21 30.2	18	3.2	1.5(.3)				20331		CF HER	46	24	000010000
2005S	17 43 37	-20 53.8	15	3.9	1.4(.3)							7	4	1+0000000
5138S	17 43 59	-26 58.2	15	3.9	1.9(.4)				-30323			2	1	1?0000000
5139S	17 44 31	27 43.7	17	3.1	1.6(.4)				30312	6633	MUU HER	52	26	000010000
2007S	17 44 56	7 .9	17	3.8	-.1(.3)							32	17	1000+0000
5140S	17 44 57	-24 45.5	14	3.8	1.2(.4)				-20385			4	2	1+0000000
5141S	17 45 43	-19 46.7	9	3.8	1.7(.4)				-20388			8	4	?10000000
5142S	17 45 48	28 47.2	18	3.1	1.7(.4)				30314		DO 16239	54	26	000010000
5143S	17 46 12	-28 4.0	15	3.9		-1.1(.4)					HFE 37	1	-0	2+0000000
5144S	17 47 10	-22 27.5	9	3.8	1.8(.4)		•		-20392			8	2	?10000000
5145S	17 47 14	22 28.9	18	3.2	2.2(.4)				20333		SU HER	47	23	000010000
5146S	17 48 25	-28 26.0	9	2.7		-.7(.6)	-3.8(.4)				V765 SGR	1	-1	420000000
5147S	17 48 55	-22 35.0	9	2.7	1.8(.3)						UY SGR	6	2	110000000
5148S	17 48 55	-29 41.1	10	3.8	1.4(.4)		•		-30327			0	-2	+10000000
5149S	17 49 20	19 2.3	9	2.5		-1.2(.5)			20336		DO 16275	44	21	000020027
5150S	17 49 34	-28 15.3	8	1.9	1.8(.4)	-1.0(.4)	•				V768 SGR	1	-1	?30000000
5151S	17 50 39	-28 9.8	10	2.3	1.8(.4)	-1.7(.4)			-30330			2	-1	3+0000000
5152S	17 50 39	45 28.7	12	2.3		-1.5(.4)	-3.0(.5)				SVS 101686	72	29	0000+6020
2021S	17 50 41	10 46.8	9	2.0		-1.0(.4)	-3.8(.7)		10338		SVS 3547	36	18	2000200+4
5153S	17 51 37	13 6.7	10	3.9		-1.8(.4)						38	19	0000+0027
5154S	17 52 15	56 31.1	28	2.4		-.8(.4)						85	30	?0002+000
5155S	17 52 51	-13 38.5	15	3.8	1.4(.4)				-10385		SVS 3567	14	6	1?0000000
5156S	17 52 54	-27 58.9	10	3.8	1.7(.4)				-30333		V781 SGR	2	-1	?10000000
5157S	17 53 18	-12 54.7	9	3.8	1.4(.4)		•		-10386			15	6	?10000000
2029S	17 53 38	-1 26.7	9	2.7	1.3(.3)				330		DO 4481	25	12	110000000
5158S	17 54 20	5 53.1	17	3.8	1.7(.4)	-.3(.4)					V389 OPH	32	15	30000002?
5159S	17 54 25	-29 52.5	10	3.8	1.2(.4)		•		-30340		V1717 SGR	1	-3	010000000
5160S	17 55 50	-16 36.8	15	3.9	1.9(.4)				-20407			12	4	1?0000000
5161S	17 55 57	-26 35.0	15	3.8	1.4(.3)				-30342			4	-1	1?0000000

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GL	RA(1950) H M S	DEC(1950) ° ′	EA S	ED ′	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
5162S	17 56 12	29 13.1	18	3.1	1.0(.3)		-2.1(.6)		30324	6703	XI HER		55	24	000050070
5163S	17 56 18	80 36.2	48	2.7	1.2(.4)	-1.5(.5)			80034		DO 36032		113	29	+102+++00
5164S	17 56 31	-8 41.3	16	3.9	1.8(.4)				-10388				21	8	100000000
5165S	17 56 35	-23 27.7	15	3.8	.9(.4)				-20409				6	0	1+0000000
2043S	17 56 35	-20 35.3	7	1.9		-1.3(.4)	*						9	2	+20000000
5166S	17 56 40	-8 8.9	10	3.9	1.2(.4)		*		-10389				21	9	?10000000
5167S	17 57 3	-20 23.5	9	3.8	1.7(.4)		*		-20410	6704	GC 24490		9	2	?10000000
2045S	17 57 16	-8 4.5	15	3.8	1.3(.3)								20	8	170000000
5168S	17 57 47	16 45.0	16	3.2	1.9(.4)				20340	6713	93 HER		43	19	000010000
5169S	17 57 54	23 38.4	9	1.8	1.3(.4)	-1.5(.4)	-3.1(.5)		20341		WY HER		49	21	000010060
5170S	17 58 2	-22 58.8	15	3.8		-2.0(.4)			-20412			R	7	0	2+0000000
5171S	17 58 14	5 34.7	17	3.8	1.7(.4)				10345		V569 OPH		32	14	100000000
5172S	17 58 14	45 29.4	22	2.8	1.6(.4)				50276	6728	DO 36010		72	28	0000?1000
5173S	17 58 23	-15 18.5	9	3.8	1.6(.4)		*		-20414				14	4	?10000000
5174S	17 58 36	-15 26.0	15	3.9	1.2(.4)				-20414				14	4	170000000
5175S	17 58 36	-17 12.8	15	3.9	1.3(.4)				-20415	6715	6 SGR		12	3	170000000
5176S	17 58 53	-23 59.1	9	2.7	1.6(.4)	-1.2(.4)	-2.8(.5)				V1741 SGR		6	-1	520000000
5177S	17 58 59	33 13.0	10	2.4	2.0(.4)		-2.4(.5)		30325	6726	GC 24523		59	24	000010040
2049S	17 59 14	-23 27.4	9	2.7		-1.1(.4)			-20418		SHARP, 28.EO		7	-0	220000000
5178S	17 59 18	-12 16.9	15	3.8	1.4(.4)				-10391				16	5	170000000
5179S	17 59 20	8 28.8	17	3.7	1.7(.4)				10348		SVS 3672		35	15	100000000
5180S	17 59 22	21 37.3	8	2.1	1.6(.4)	-2.3(.6)	-3.1(.5)		20343	6729	95 HER		48	20	000010042
5181S	17 59 24	-19 13.4	8	3.8	1.8(.4)				-20420				10	2	?10000000
5182S	17 59 56	-22 0.0	9	3.8	1.5(.3)		*		-20422				8	0	?10000000
5183S	18 0 10	-25 15.5	9	3.8	1.9(.4)		*		-30347				5	-2	?10000000
5184S	18 0 13	1 42.6	16	3.7	*	-1.3(.4)					V571 OPH		29	12	200000000
5185S	18 0 20	49 51.7	24	2.7		-1.1(.4)							77	28	?0002+000
5186S	18 0 34	26 58.3	9	3.7		-2.3(.4)						R	53	22	0000+0020
5187S	18 0 38	15 2.2	17	3.4	1.3(.3)				20345		DO 16402		41	17	1000?0000
5188S	18 0 49	-13 14.1	9	2.7	1.3(.4)	-.2(.6)			-10393				16	4	210000000
2055S	18 1 7	-16 57.4	8	2.7	1.4(.3)				-20425				12	2	110000000
5189S	18 1 31	-12 43.9	15	3.8	1.6(.4)				-10394				16	4	170000000
5190S	18 1 36	-26 1.0	15	3.8	1.9(.4)				-30348				5	-2	170000000
5191S	18 2 14	-16 57.1	9	2.7	1.5(.4)	-.8(.4)					BRIGHT NEB		13	2	210000000
5192S	18 2 28	-27 3.8	9	3.8	1.7(.4)				-30352				4	-3	?10000000
5193S	18 2 38	-25 17.2	15	3.8	1.5(.4)				-30354				5	-2	170000000
5194S	18 2 51	-25 25.9	15	3.8	1.7(.4)				-30355				5	-2	170000000
5195S	18 3 28	50 40.0	28	3.4	1.4(.4)	-1.0(.4)							78	28	3000?7000
5196S	18 3 50	-27 50.3	9	3.8	1 1(.4)		*		-30356				3	-4	010000000
5197S	18 4 13	-14 34.5	9	3.8	1 4(.4)		*		-10397				15	3	?10000000
5198S	18 5 18	-23 52.0	15	3.8	2.0(.4)				-20432				7	-2	170000000
2073S	18 5 26	-20 1.8	8	2.8	1.5(.3)	-.8(.4)			-20433			R	10	-0	310000000
5199S	18 6 50	-24 4.2	8	3.7		-1.4(.4)	*				NGC 6559.EO		7	-2	+20000000
2081S	18 7 4	-23 34.7	8	3.7		-1.3(.4)	*						7	-2	?20000000
5200S	18 7 7	-24 10.8	9	2.7		-1.1(.4)					NGC 6559		7	-2	220000000
5201S	18 7 35	-8 52.4	9	2.7	1.4(.4)	-.3(.4)			-10400				22	6	210000000
5202S	18 7 37	-23 38.0	15	3.8	1.6(.4)				-20440		SY SGR	R	7	-2	170000000
5203S	18 8 5	-18 50.8	8	3.7	1.2(.4)		*		-20441				12	0	+10000000
5204S	18 8 8	-8 7.4	9	2.7	1.7(.4)	-1.1(.4)			0403				23	6	210000000
5205S	18 9 10	-14 56.1	9	2.7	1.4(.4)	-1.0(.4)			-10405				15	2	210000000

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° '	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II	B II	OBS. LOG
													°	°	
5206S	18 9 45	6 48.7	10	2.8			-3.1(.4)				NGC 6572		35	12	400000040
5207S	18 9 54	-24 55.2	8	3.7	1.5(.4)				-20448				7	-3	+10000000
5208S	18 9 56	-16 18.1	15	3.8	1.5(.4)				-20447				14	1	1?0000000
5209S	18 10 37	25 7.8	17	3.2	1.6(.4)				30329		DO 16558		52	19	000010000
5210S	18 10 41	4 5.2	16	3.8	2.4(.4)				340		DO 4640		32	10	100000000
2091S	18 11 15	-12 39.7	15	3.8	1.3(.3)								17	2	1?0000000
5211S	18 11 22	12 26.4	17	3.5	1.2(.3)	-.8(.4)			10352		V454 OPH		40	14	3000+00??
5212S	18 12 14	-2 40.8	16	3.8	1.4(.3)				342		DO 4665	R	26	7	100000000
5213S	18 12 55	16 15.0	10	2.8	1.5(.4)				20355		DO 16603		44	15	1000?0000
2099S	18 12 56	25 55.9	17	3.2			-2.9(.4)						53	19	000040070
2100S	18 13 22	27 33.5	17	3.1	1.8(.3)								55	20	000010000
5214S	18 14 19	-25 35.8	8	3.7	1.4(.3)		•				SVS 3955		6	-4	?10000000
5215S	18 14 33	-25 18.4	8	3.7	2.1(.3)		•				V1648 SGR		7	-4	?10000000
5216S	18 14 37	-15 15.7	15	3.8	1.8(.4)				-20467				16	0	1?0000000
2111S	18 14 56	36 42.8	19	3.0	1.3(.3)	-.8(.4)							64	22	00003+070
5217S	18 15 2	-17 52.8	15	3.7	1.2(.3)				-20468				13	-1	1?0000000
5218S	18 15 23	47 47.5	23	2.8	1.3(.3)								76	25	?00071000
5219S	18 16 0	-25 37.5	8	3.7	1.5(.3)		•				SVS 3992		7	-5	?10000000
2120S	18 16 12	-11 41.9	9	2.8		-.9(.4)	-2.8(.4)				CV SER		19	2	620000000
5220S	18 16 13	80 44.3	32	2.5	•		-3.2(.4)					EO	90	28	?00047000
2121S	18 16 17	-20 45.1	7	3.7			-3.3(.4)						11	-3	+40000000
5221S	18 16 32	36 41.2	19	3.0	1(.3)								64	22	+00017000
5222S	18 17 17	-15 49.9	8	3.7		-.8(.4)	•		-20465	6858	GC 25006.EO		15	-0	?20000000
2125S	18 17 38	-14 9.9	9	2.7	1.3(.3)				-10411				17	0	110000000
5223S	18 18 11	-15 15.5	8	3.7	1.6(.4)				-20467		RCW 141		16	-0	?10000000
5224S	18 18 26	5 54.1	16	3.5	1.6(.4)				10356		V1014 OPH		35	9	100000000
5225S	18 19 2	-23 35.1	15	3.7	1.3(.4)				-20469				9	-4	1?0000000
5226S	18 19 20	-14 40.8	9	2.8		-.8(.4)	-2.3(.5)				SHARP. 48	R	17	-0	420000000
5227S	18 19 40	-19 22.6	7	3.7	1.5(.4)		•		-20470				12	-3	?10000000
5228S	18 20 19	-12 40.9	15	3.8	1.5(.4)				-10415		FR SCT		18	0	1?0000000
5229S	18 20 25	-20 40.2	7	3.7	1.7(.4)				-20471				11	-3	?10000000
5230S	18 20 27	-23 5.2	15	3.7	1.8(.4)				-20473				9	-5	1?0000000
2140S	18 20 29	80 42.4	18	2.0			-3.0(.4)						70	25	4000?4000
2141S	18 20 49	-4 30.5	9	2.8	1.5(.4)				348				26	4	110000000
5231S	18 20 58	-8 .0	8	3.7	1.7(.4)		•		-10417	6884	ZET SCT		22	2	?10000000
2144S	18 21 33	72 41.8	36	1.4	1.7(.3)				70144	6927	CHI DRA		103	28	700011000
5232S	18 22 14	43 52.0	22	2.8	1.5(.4)				40316		DO 36212		72	23	700071000
5233S	18 22 28	-8 54.9	15	3.7	1.7(.4)				-10418				24	3	100000000
5234S	18 22 43	-13 47.6	10	2.4	2.0(.3)				-10419				18	-1	1?0000000
5235S	18 22 44	-12 43.1	9	2.8		-.8(.4)					RY SCT		19	-0	220000000
5236S	18 23 58	-21 10.4	15	3.7	1.4(.4)				-20483		V1661 SGR		11	-4	1?0000000
5237S	18 25 5	-16 45.4	8	3.7	1.7(.4)	-1.0(.4)	•		-20484		AK SGR		15	-3	?30000000
5238S	18 25 12	-21 18.8	7	3.7	1.6(.4)		•		-20485				11	-5	?10000000
5239S	18 25 39	-19 47.1	7	3.7	1.8(.4)				-20486			EO	13	-4	?10000000
5240S	18 26 5	65 33.1	37	2.0	1.3(.4)				70145	6945	42 DRA		85	27	?00071000
5241S	18 26 26	49 17.9	24	2.9	1.8(.4)				50280		AL DRA		78	24	?00017000
5242S	18 26 28	8 18.9	10	2.5	1.7(.4)	-.3(.5)			10358		T SER		36	8	300000070
2170S	18 26 38	-6 6.3	16	3.6		-1.3(.4)							25	2	200000000
5243S	18 26 58	-11 11.1	16	3.7	1.7(.4)				-10428				21	-0	1?0000000
5244S	18 27 5	16 11.1	17	3.3		-1.7(.4)						EO	45	12	2000000+?

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ' "	EA S	ED '	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II	B II	OBS. LOG
												0	0	
5245S	18 26 8	-21 15.8	15 3.7		2.1(.5)				-20490			12	-5	1?0000000
5246S	18 28 25	-8 26.7	16 3.7		1.2(.4)				-10130		RCW 171 R	23	1	100000000
5247S	18 28 31	-9 23.0	7 3.6		1.8(.4)		*		-10431		BP SCT	22	0	?10000000
5176S	18 28 44	12 49.6	7 3.2				-3.2(.4)					42	10	4000000?+
5248S	18 29 7	25 8.1	9 1.8		1.7(.4)	-1.8(.5)	-3.5(.5)		30336		DO 16848	54	15	1003+402?
5249S	18 29 59	4 18.2	16 3.6		1.6(.4)				354		DO 4888	35	6	100000000
5250S	18 30 5	-13 48.5	15 3.7		1.6(.4)				-20493		V2003 SGR	13	-5	1?0000000
2183S	18 30 9	23 11.2	8 2.1			-1.0(.4)	-3.1(.4)					52	14	?000600+?
5251S	18 30 15	-21 0.0	15 3.7			-1.8(.4)					V1683 SGR	12	-6	2+0000000
5252S	18 30 17	-20 6.7	7 3.6		1.5(.3)		*		-20494			13	-5	?10000000
5253S	18 30 18	20 19.9	11 2.5		1.5(.4)	-2.3(.5)	-2.8(.6)				GH HER	49	13	+000100+6
5254S	18 30 50	23 34.1	16 3.2		2.0(.4)				20366	6961	GC 25328	52	14	?000??000
5255S	18 30 51	-24 7.1	7 3.6		1.3(.4)				-20495	6961	24 SGR	9	-7	010000000
5256S	18 31 13	3 41.8	16 3.6		1.5(.4)				356		AG SER	34	6	100000000
5257S	18 31 29	-13 8.1	15 3.5		1.5(.4)				-10435			19	-2	1?0000000
5258S	18 31 46	-19 37.1	8 2.6			-1.0(.5)			-20496			14	-5	220000000
5259S	18 31 51	10 25.9	17 3.3				-2.9(.4)				V626 OPH	40	9	4000000?0
5260S	18 32 48	6 26.6	18 3.5		1.5(.4)				10363		V925 OPH	37	7	100000000
5261S	18 33 18	-23 55.6	7 3.6		1.4(.4)		*		-20498		NGC 6656	10	-8	010000000
5262S	18 33 31	28 44.2	13 1.9			-.7(.4)					SVS 101742	58	16	200???.?0
5263S	18 33 37	-6 42.0	16 3.6			-1.2(.4)					SHARP. 60 R	25	0	200000000
5264S	18 33 38	-8 58.0	7 3.6		1.5(.4)		*		-10440			23	-1	?10000000
5265S	18 34 14	-19 11.8	6 3.6		1.5(.4)		*		-20502		GC 25425	14	-6	?10000000
5266S	18 34 23	30 26.3	9 3.7				-3.3(.5)	-6.3(.6)				59	16	?000??050
5267S	18 35 13	31 17.6	18 2.4			-.8(.4)	-2.6(.4)					60	17	6000+?0?0
2209S	18 35 14	-12 22.4	8 2.5		1.8(.4)				-10443			20	-3	110000000
5268S	18 35 18	-6 53.8	9 1.7		1.3(.3)	-.5(.4)	*		-10442		EW SCT R	25	-0	+30000000
5269S	18 35 25	35 11.9	10 2.1			-.3(.4)	-2.7(.5)					64	18	2000??040
5270S	18 35 28	5 .4	11 3.8			-2.1(.4)					BS SER	36	5	.00000020
5271S	18 35 43	14 42.7	9 3.7				-3.5(.5)					45	10	?00000047
2225S	18 35 57	22 38.9	12 2.1		1.2(.4)				20368		DO 16914	52	13	1000?1000
2216S	18 36 18	-5 20.8	8 3.6		1.5(.4)	-1.4(.4)						27	0	?30000000
5272S	18 36 28	1 38.8	16 3.4		1.4(.3)				381			33	4	100000000
5273S	18 36 41	30 26.2	13 1.9		1.4(.4)	-1.0(.4)			30337		DO 16922	59	16	1000+20?0
5274S	18 36 45	-28 42.6	7 3.6		1.5(.3)				-30392		MO SGR	6	-10	010000000
2226S	18 38 18	-5 42.6	9 2.5			-1.2(.4)			-10452			27	-0	220000000
5275S	18 38 36	-6 24 3	9 2.6			-.7(.4)			-10453			26	-1	220000000
5276S	18 39 16	6 22.4	16 3.5		1.6(.4)				10369		MY OPH	36	5	100000000
5277S	18 39 23	46 2.2	22 2.9		1.8(.4)				50283		DO 36424	75	21	?0001?000
5278S	18 39 32	-7 22.8	16 3.6		1.4(.4)				-10455		GC 25581	25	-1	100000000
2231S	18 39 36	74 17.7	39 1.9		1.6(.3)				70146		RS OPH	105	27	1000?1000
2234S	18 39 53	-2 7.7	16 3.5				-3.0(.4)					30	1	400000000
5279S	18 40 7	10 18.2	17 3.3				-3.1(.4)				V668 OPH,EO	41	7	4000000?0
2237S	18 40 10	-4 36.0	9 2.5		1.5(.3)						SVS 4316	28	-0	110000000
5280S	18 40 45	-8 23.6	8 3.6		1.2(.4)		*		-10457	7032	EPS SCT	25	-2	?10000000
5281S	18 40 54	-1 35.4	9 2.4		1.1(.3)	-.7(.4)			368		DO 5047	31	1	300000000
5282S	18 40 58	-11 25.8	15 3.5		1.6(.4)				-10456		GC 25608	22	-3	1?0000000
5283S	18 41 7	29 45.3	18 2.6		1.3(.4)				30341		DO 16974	59	15	1000+?000
5284S	18 41 30	-2 34.4	16 3.5		1.8(.5)				371		R	30	0	100000000
5285S	18 41 38	-3 51.3	8 1.7		1.2(.3)		*		370		R	29	-0	?10000000

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° '	EA S	ED '	M(8)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
5286S	18 42 2	11 14.0	17	3.3		- 9(.4)					V1118 OPH		42	7	200000070
5287S	18 42 26	17 27.2	10	2.4	1.1(.4)	-1.2(.5)			20371		DO 16391		48	9	10000?027
5288S	18 42 57	-17 20.7	9	2.6	1.6(.4)	-1.6(.5)			-20514		SVS 4350		17	-7	120000000
5289S	18 43 1	4 10.2	16	3.3			-2.8(.4)				BX SER		36	3	400000070
5290S	18 43 13	8 42.4	16	3.4	1.4(.4)				10377		T AQL.EO		40	5	100000000
5291S	18 43 22	-22 20.7	7	3.6	1.8(.4)		•		-20516	7046	28 SGR		12	-9	010000000
5292S	18 43 36	-29 37.4	8	3.6	1.1(.3)				-30394		GC 25702		6	-12	010000000
5293S	18 43 46	-3 0.0	16	3.5	1.5(.4)				375			R	30	-0	100000000
5294S	18 44 7	22 25.2	17	2.9	1.6(.4)				20373			R	53	11	?00001000
2299S	18 44 39	-2 24.4	16	3.5			-3.2(.4)					R	30	-0	400000000
5295S	18 44 40	5 25.3	16	3.3	1.3(.5)				10379		DR SER		37	3	100000000
5296S	18 44 50	-5 44.0	9	2.6	1.2(.3)	-.7(.4)	-2.6(.5)		-10461	7066	R SCT		27	-2	430000000
2300S	18 44 56	-12 21.5	7	2.5	1.6(.4)				-10462				22	-5	110000000
5297S	18 45 0	42 42.8	21	3.0		-.9(.4)	-2.9(.5)					R	72	19	?0006?070
2303S	18 45 30	-19 55.6	7	3.7	1.4(.3)		•						15	-8	010000300
5298S	18 46 7	19 4.1	12	2.1	.8(.3)	-1.5(.6)			20376		MZ HER		50	9	10000[illegible]??
2305S	18 46 9	-9 40.0	7	3.7	1.6(.3)						SVS 7952		24	-4	?10000000
5299S	18 46 22	15 44.4	12	2.1	2.2(.4)		-3.7(.4)		20377		DO 17051		47	8	1000040+0
5300S	18 46 25	2 21.5	18	3.4	1.5(.3)				360		DO 5?12.EO		35	2	100000000
5301S	18 46 38	69 37.7	45	2.5		- 9(.4)							100	26	?0002?000
2307S	18 46 38	-2 30.9	9	2.5		-.7(.4)					SHARP. 67.EO		30	-1	220000000
5302S	18 46 59	-5 28.6	16	3.6	1.4(.3)				-10465	7083	GC 25801		27	-2	100000000
5303S	18 47 28	-10 45.4	15	3.5	1.6(.4)						SY SCT		23	-5	120000000
5304S	18 47 36	25 4.3	18	2.5	1.6(.3)		-2.9(.4)						58	13	5000??0??
5305S	18 48 4	33 19.1	18	2.2	1.9(.4)				30343	7108	BET LYR		63	15	1000??000
2309S	18 48 5	6 45.4	9	2.6	1.9(.4)				-10469		AI SCT		27	-3	110000000
2310S	18 48 17	23 43.8	12	2.0	1.7(.3)				20379		DO 17095		54	11	100001000
5306S	18 48 26	24 2.7	12	2.0	1.4(.4)	-1.0(.5)			20378		DO 17089		55	11	100002???
5307S	18 48 34	-12 42.6	8	3.7	2.0(.4)		•		-10470				22	-6	?10000000
5308S	18 48 37	-9 28.0	8	3.7	1.8(.3)						IV SCT		24	-4	?10000000
5309S	18 48 59	25 0.0	10	1.7		-.8(.5)	-3.3(.6)				CS HER		55	11	2000440++
5310S	18 49 1	-0 9.2	16	3.4	1.7(.4)	-1.1(.4)			384			R	33	-0	300000000
2205S	18 49 5	-1 36.3	16	3.5	1.5(.3)								32	-1	100000000
2203S	18 49 55	46 41.3	16	1.7	1.4(.3)				50285		DO 36566		76	19	100071000
5311S	18 50 1	-3 16.3	9	2.4	1.3(.4)				388				30	-2	100000000
5312S	18 50 13	-7 57.3	15	3.4			-2.6(.4)				DS SCT		26	-4	4000[illegible]0000
5313S	18 50 16	33 30.7	18	2.2	1.4(.3)	-.7(.4)					HM LYR.EO		64	14	3000+[illegible]070
5314S	18 50 31	59 40.5	23	1.9	1.3(.4)				60259	7125	OMI DRA		89	23	?000?100J
5315S	18 50 56	17 3.2	8	2.0		-1.6(.4)	-3.0(.4)	-6.4(.7)					48	7	+00006041
5316S	18 50 56	-12 40.9	9	2.5	1.3(.3)	-.5(.4)			-10472		SW SCT		22	-6	210000000
5317S	18 50 59	9 39.8	10	2.5	1.3(.4)		-2.2(.6)		10383		DO 5176		42	4	100000040
5318S	18 51 10	42 7.0	20	2.1	1.4(.3)	.0(.4)							72	18	3000??070
2273S	18 51 15	30 37.9	13	2.1	1.8(.3)				30345				61	13	?00011000
5319S	18 51 52	36 49.3	18	1.9	1.6(.3)		-2.8(.5)						67	15	5000??070
5321S	18 52 6	50 38.8	24	2.2	1.6(.5)				50286	7137	GC 25935		80	20	?000?1000
5321S	18 52 17	0 22.0	16	3.4	2.3(.4)				392				34	-1	100000000
5322S	18 52 20	27 50.4	10	1.8	1.5(.4)	-2.8(.5)	-2.8(.4)		30346	7132	GC 25942		58	12	1000+40+2
5323S	18 52 22	8 12.4	15	3.2	1.1(.3)				10385				41	3	100000000
2277-	18 52 38	41 25.9	21	2.4			-3.1(.4)						71	17	?000?4070
5324S	18 52 41	-8 14.1	9	3.7	1.3(.4)		•		-10475		T SCT		26	-5	+10000000

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° '	EA S	ED '	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II °	B II °	OBS. LOG
2281S	18 53 13	-4 50.0	9	2.6	1.7(.4)				394			29	-3	110000000
5325S	18 53 17	-29 40.1	8	3.7	2.0(.4)				-30397			7	-14	010000000
5326S	18 54 52	71 13.8	21	1.7	1.4(.3)				70147	7180	UPS DRA	102	25	?0?0?1000
5327S	18 55 7	0 22.6	16	3.4	1.6(.4)				398		UW AQL	34	-1	100000000
2294S	18 56 33	25 11.5	12	1.9	1.6(.3)				30348		DO 17253	56	10	100001000
5328S	18 56 49	10 20.6	16	3.1	1.3(.3)				10390		DO 5239	43	3	10000?000
2295S	18 57 4	-6 56.2	15	3.3	1.3(.3)							28	-5	100000000
2298S	18 57 59	3 39.6	16	3.3			-2.5(.4)					37	-0	4000000+0
5329S	18 58 17	32 4.6	18	2.3	1.3(.4)				30350	7192	LAM LYR	63	12	1000??000
5330S	18 59 29	5 7.6	12	4.0			-3.5(.4)					39	0	?00000040
5331S	19 0 3	1 24.6	16	3.4	1.6(.5)				407			36	-2	100000000
2305S	19 0 9	22 45.5	17	2.8	1.5(.3)		-2.3(.4)				DO 17313	55	8	50000?0??
2307S	19 0 17	25 15.9	12	1.9			-2.8(.4)				AN VUL	57	9	40000402?
2313S	19 1 10	5 26.8	9	2.3	1.1(.3)	-1.2(.4)	-2.8(.5)					R 39	-0	?000000?0
5332S	19 1 22	29 8.3	8	1.5	1.3(.4)	-1.3(.4)	-3.3(.4)		30351		YZ LYR	60	11	200041027
5333S	19 1 40	-21 47.9	8	3.7	1.4(.3)				-20536	7217	OMI SGR	15	-13	010000000
5334S	19 2 25	1 31.5	16	3.4	1.2(.3)				411		DO 5323	36	-2	100000000
5335S	19 2 26	-7 15.5	15	3.4	1.2(.4)				-10487		GC 26236	28	-6	100000000
5336S	19 2 42	-12 42.0	9	3.8	1.1(.4)				-10488		AE SGR	23	-9	+10000000
5337S	19 2 52	39 10.5	11	2.5			-3.1(.4)					70	14	?0004+040
5338S	19 2 52	31 39.1	13	1.8	1.2(.3)		-2.2(.6)		30253	7237	DO 17381	63	11	4000+10??
5339S	19 3 5	17 18.4	10	2.4	1.1(.4)			-6.4(.6)	20386			50	5	10000?010
5340S	19 3 32	3 8.1	12	4.1			-3.6(.4)					37	-2	400000040
5341S	19 3 37	-8 57.6	15	3.4			-2.7(.4)				V961 AQL	27	-7	4?0000000
2322S	19 3 44	29 49.3	10	1.8	1.7(.3)		-3.1(.6)		30357	7244	DO 17399	61	10	1000+10?4
2328S	19 5 30	-12 45.3	16	3.4	1.6(.3)	*						23	-9	1?0000000
5342S	19 5 36	31 6.8	18	2.4	1.3(.3)	-.1(.4)						63	11	3000??0??
5343S	19 6 11	-4 7.9	10	3.8	1.7(.4)		*		413			31	-6	?10000000
5344S	19 6 52	24 4.6	17	2.8	1.6(.4)				20388		SVS 101803	56	7	10000?000
5345S	19 7 58	7 43.5	12	4.0		-1.2(.4)	-3.0(.4)					R 42	-1	?0000+060
5346S	19 7 59	35 8.0	18	2.2	1.5(.3)							R 67	12	1000??000
5347S	19 8 37	21 57.2	17	2.7	1.3(.4)				20389			55	6	10000+000
5348S	19 8 38	36 30.5	19	2.4	1.5(.3)							R 68	12	?000?1000
2337S	19 9 29	10 3.1	8	2.0		-1.2(.4)						R 44	0	200002020
5349S	19 9 34	32 32.5	18	2.4	1.1(.3)				30362		OU LYR	R 64	10	1000?+000
2339S	19 10 14	67 12.2	29	1.7	1.5(.3)				70149		U DRA	98	23	1000?1000
2342S	19 11 4	25 55.6	12	1.9	1.4(.3)	-.4(.3)					S LYR	59	7	300003???
5350S	19 11 18	2 33.8	10	2.6	1.4(.4)	-1.4(.5)			416		V842 AQL	38	-4	100000020
2344S	19 11 27	27 39.9	18	2.7	1.4(.3)						EI LYR	60	8	?00001000
5351S	19 12 0	11 37.1	16	3.0	2.0(.4)				10412		GC 26506	46	0	?00001000
5352S	19 12 47	22 0.0	17	2.8	1.4(.4)				20390			55	5	?00001000
5353S	19 12 53	14 36.9	16	2.9	1.5(.4)	-.8(.4)			10413		DO 17555	49	2	?00003??0
5354S	19 12 55	57 38.5	29	2.6	1.4(.4)				60264	7309	54 DRA	89	20	1000??000
5355S	19 13 22	18 25.8	17	2.8	1.5(.4)				20391		DO 17567	52	3	10000?000
2352S	19 13 36	-10 7.4	16	3.4	1.7(.3)	*						27	-10	1?0000000
5356S	19 13 44	22 54.0	12	1.9	1.2(.4)	-1.3(.4)			20392		DO 17576	56	5	100002???
2355S	19 14 8	34 35.3	13	2.0			-3.1(.5)				OW LYR	67	10	40004?0+0
2354S	19 14 8	-8 24.2	9	3.8		-.8(.4)	*					28	-9	?20000000
5357S	19 14 23	29 14.9	18	2.6	1.4(.4)				30365		OV LYR	62	8	100007000
5358S	19 14 26	22 24.1	11	2.4			-3.1(.5)				BRIGHT NEB	56	5	?00004074

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′ ″	EA	ED	M(4)	M(11)	M(20)	M(27)	IPC	BS	COMMENTS	L II °	B II °	OBS. LOG
5359S	19 15 29	-19 30.7	9	3.8	1.5(.4)		•		-20551			18	-14	010000000
5360S	19 15 53	53 15.8	25	2.0	1.5(.4)				50291	7328	KAP CYG	84	18	?000?1000
5361S	19 16 13	-15 40.5	10	3.8	1.3(.3)				-20553	7317	GC 26626	22	-13	010000000
2364S	19 16 29	73 16.1	38	1.9	1.6(.4)				70153	7352	TAU DRA	105	24	100021?00
5362S	19 17 5	27 12.6	12	1.8	7(.4)	-.6(.6)			30367		DO 17633	60	7	100302077
5363S	19 17 22	-6 39.7	9	2.6	2.1(.4)	-1.6(.4)			-10501		GC 26655	30	-9	210000000
5364S	19 17 33	68 48.5	44	2.9		-.7(.4)						100	23	2000??400
5365S	19 17 47	46 4.8	22	3.1	1.4(.3)							78	15	?0001?000
5366S	19 18 12	-4 39.8	10	3.9	1.3(.4)		•		425		GC 26676	32	-9	+1000?300
2372S	19 18 17	40 41.1	11	1.5	1.7(.4)				40344		DO 37124	73	12	100011000
5367S	19 18 19	37 47.1	20	2.5	1.0(.3)				40345		U LYR	70	11	+000+1000
5368S	19 18 39	41 37.2	12	2.5		-.7(.4)					HO LYR	74	13	?0002?020
5369S	19 20 2	-3 19.7	15	3.2	1.6(.4)				426		DO 5651	34	-8	100000000
2377S	19 20 25	7 20.2	11	2.2		-.6(.5)					V1126 AQL	43	-4	20030207?
5370S	19 20 54	-2 42.9	15	3.2	1.8(.4)				427			34	-8	100000000
5371S	19 22 13	-8 56.2	10	3.9	1.6(.4)		•		-10510			29	-11	010000000
5372S	19 22 38	21 22.9	17	2.7	1.5(.4)				20401			56	3	100007?00
5373S	19 22 47	17 37.8	17	2.9	1.7(.4)				20400		DO 17726	52	1	100007?000
5374S	19 23 13	35 56 0	11	2.2		-1.3(.4)	-3.0(.5)		40346		DO 17733	69	9	2000++060
2385S	19 23 21	53 32.0	15	1.6		-.6(.5)					NGC 6709	65	17	2000?7?0?
2386S	19 23 41	60 55.5	23	1.9	1.7(.4)		-2.8(.5)					92	20	10005?000
2387S	19 23 45	65 33.2	26	1.7	1.8(.3)				70155		DO 37260	97	21	1000?1000
5375S	19 23 54	60 55.6	30	1.8	1.6(.5)		-2.7(.5)		70154		DO 37274	100	22	?000417?0
5376S	19 23 58	-18 33.3	9	3.8	1.4(.4)				-20562		AN SGR	20	-16	010000000
5377S	19 24 10	16 36.2	16	2.9	1.9(.4)				20404			52	0	?00001000
5378S	19 24 18	19 47.4	17	2.8	1.6(.4)				20405	7391	DO 17749	55	2	100007?00
5379S	19 24 41	0 56.5	15	3.1		-.9(.4)					V532 AQL	38	-7	20000?000
2393S	19 25 40	33 25.1	18	2.2			-3.1(.4)					67	8	40000?07?
2394S	19 26 17	12 45.4	16	3.0	1.2(.3)							49	-2	10000-000
5380S	19 26 43	-16 11.9	10	3.9	1.6(.4)				-20564			23	-16	010000000
5381S	19 26 47	17 54.3	12	4.0			-3.0(.5)				R	53	0	?0000?040
5382S	19 25 48	3 46.1	16	3.1	1.1(.4)				436		V858 AQL,EO	41	-7	+000?1000
5383S	19 27 9	4 27.2	9	2.0		-1.2(.4)	-2.9(.5)	-2.0(.9)			V1133 AQL	41	-6	40000?010
2397S	19 27 20	13 55.8	16	2.9		-1.4(.4)						50	-2	?000?2070
5384S	19 28 5	11 18.9	9	2.3	1.9(.3)						V976 AQL R	48	-3	100007?00
2405S	19 28 33	15 32.9	17	3.0			-3.0(.4)					51	-1	400007?070
5385S	19 28 51	-10 57.7	10	3.9	1.3(.4)		•		-10515		DN AQL	28	-14	010000000
5386S	19 29 7	25 24.4	17	2.7	1.2(.4)				20412			58	2	+0000107?
5387S	19 29 12	49 46.4	23	1.9			-3.2(.4)					82	15	40007?+000
5388S	19 29 54	-6 31.2	11	4.0	1.4(.4)		•				GM AQL,EO	32	-12	010000000
5389S	19 30 46	8 11.1	16	3.0	1.6(.4)				10427		V621 AQL	43	-6	100007?00
5390S	19 30 48	38 44.7	19	2.1	1.9(.5)				40349		HM CYG	70	8	100007?00
5391S	19 31 4	2 50.7	16	3.1	1.4(.4)						V1138 AQL	40	-8	100007?00
5392S	19 31 5	-22 45.1	10	3.8	1.6(.4)				-20567			17	-19	010000000
5393S	19 31 11	1 32.3	11	2.6			-3.6(.4)	-6.3(.6)			GO AQL	39	-9	+0004050
5394S	19 31 14	32 35.6	9	2.0	2.0(.4,	-1.1(.4)					V895 CYG	67	6	30050+07?
5395S	19 31 37	45 21.8	21	3.2	•		-3 2(.4)					78	12	?0004+050
5396S	19 31 41	7 16.9	16	3.0	1.5(.4)				10430	7429	MUU AQL	44	-6	+00001050
5397S	19 32 29	69 33.8	44	2.3	2 3(.4)				70158	7462	SIG DRA	101	22	?000?1?00
5398S	19 32 34	23 44.8	11	2.4	1.5(.4)		-3.0(.6)		20415		DO 17894	59	3	100007074

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′ ″	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II	B II	OBS. LOG O	OBS. LOG C
5399S	19 32 43	30 40.3	18	2.4	1.1(.3)		-2.7(.5)		30375		SVS 101861	65	5	50000?000	
5400S	19 32 54	0 36.3	9	2.2	1.4(.4)		-2.6(.6)		445		V607 AQL	39	-9	+0000?000	
5401S	19 32 57	60 4.1	30	1.9	1.6(.4)				60268	7448	DO 37451	92	18	?0000?1000	
5402S	19 33 6	63 31.2	35	2.5	1.5(.3)							95	20	10000?000	
5403S	19 33 8	-0 14.5	11	4.0	1.7(.4)		•				V862 AQL	33	-10	?1000?000	
2419S	19 33 9	72 49.4	32	1.6		-1.0(.4)						105	23	+0000?000	
5404S	19 33 21	48 7.6	22	1.8	1.4(.3)							81	13	10000?000	
5405S	19 33 26	47 41.2	22	1.8		-.4(.4)						80	13	10000?000	
5406S	19 33 43	-0 35.5	16	3.2	1.4(.5)				446			38	-10	10000?000	
5407S	19 34 38	21 36.6	10	2.4		-.8(.4)	-2.7(.5)		20419			57	0	20000?000	
2421S	19 34 52	12 2.6	16	3.1	1.3(.3)							49	-4	10000+000	
5408S	19 35 9	20 28.3	12	4.0		-.9(.5)	-2.8(.4)					56	-0	?0000?000	
5409S	19 35 53	6 19.2	16	3.0	1.6(.4)						V825 AQL	44	-7	10000?000	
5410S	19 36 46	30 55.8	11	2.3	1.8(.4)		-2.5(.4)				SVS 4763	66	5	50000?000	
5411S	19 36 55	16 26.0	10	2.5			-2.7(.5)	-6.4(.6)	20424	7475	DO 37970	53	-3	40000?010	
5412S	19 37 2	12 3.5	12	4.0			-3.2(.5)				LW AQL	49	-5	?0000?000	
5413S	19 37 8	20 2.9	10	1.8	1.3(.4)	-1.5(.4)		-5.3(.8)	20422		IC 1305	56	-1	+0000?000	
5414S	19 37 32	30 3.9	9	2.0	1.9(.4)		-2.7(.5)		30380	7478	PM1 CYG	65	4	50000?000	
2431S	19 38 27	32 42.7	18	2.3	1.6(.3)							67	5	10000?000	
5415S	19 40 11	59 30.2	30	2.3	1.6(.3)							92	17	10000?000	
5416S	19 40 33	42 6.2	14	2.0	1.5(.4)	-1.2(.4)			40359			76	9	+0000?000	
5417S	19 41 6	53 46.6	29	2.2	1.6(.3)							91	17	10000?000	
5418S	19 41 40	23 4.8	9	2.2	1.5(.3)				20429			59	-0	?0000?000	
5419S	19 42 1	14 36.2	16	2.8	1.7(.4)				10436		V462 AQL	52	-5	10000?000	
5420S	19 42 2	43 41.7	23	3.2	1.5(.4)				50306		RT CYG	82	12	?0001?000	
5421S	19 42 7	37 15.1	19	2.2	1.7(.3)				40361	7517	15 CYG	72	7	10000?000	
2444S	19 42 13	32 23.3	19	2.6	1.1(.3)						IO CYG	68	4	+0000?000	
5422S	19 42 19	41 39.9	20	2.0	2.0(.4)				40360	7514	DO 37664	76	9	10000?000	
5423S	19 42 36	-0 51.8	15	3.2	1.1(.3)						SVS 4795	38	-12	00000?000	
5424S	19 42 38	50 55.5	24	3.2	2.1(.4)				50307		DO 37673	84	13	?0001?000	
2447S	19 42 51	33 15.5	9	2.0	1.5(.4)	-.5(.4)	-2.8(.5)				V869 CYG	68	5	?0000?000	
5425S	19 43 15	58 12.6	28	1.9	1.4(.3)				60271		DO 37697	91	16	+0001?000	
2451S	19 43 27	31 21.3	13	1.8	1.5(.4)				30390		EQ CYG	57	3	10000?000	
5426S	19 43 38	30 7.0	10	1.8	1.2(.4)	-1.2(.5)			30391		DO 18133	66	3	20000?000	
5427S	19 44 15	-17 12.2	10	3.9	1.0(.4)		•		-20574		SVS 8290	23	-20	01000?000	
5428S	19 44 50	53 5.0	25	3.2		-.8(.4)						86	14	?0000?000	
5429S	19 45 10	15 55.0	13	4.0		-1.4(.4)					V446 AQL	54	-5	+0000?000	
5430S	19 45 22	59 28.4	14	1.8	1.4(.3)	-1.0(.4)					SVS 4826	92	17	+000+3?00	
2457S	19 46 4	23 46.6	17	2.7		-.2(.4)	-3.1(.4)					01	-1	60000?000	
5431S	19 46 46	26 .3	18	2.7	1.5(.3)				30392			63	0	10000?000	
5432S	19 46 54	30 18.5	18	2.5	1.4(.3)				30393		ER CYG	66	2	10000?000	
5433S	19 47 13	21 27.2	17	2.9	.9(.4)				20436		DO 18198	59	-2	+0000?000	
5434S	19 48 24	26 12.5	18	2.7	1.5(.4)				30394		DO 18218	63	-0	10000?000	
2468S	19 49 15	22 24.1	17	2.8		-.9(.4)						60	-2	20000?000	
5435S	19 49 20	52 51.8	24	1.7	1.7(.4)				50310	7576	20 CYG	86	13	?0001?000	
5436S	19 49 40	-0 32.9	12	4.0	1.1(.4)		•		456		V1051 AQL	40	-14	01000+000	
5437S	19 50 4	0 48.3	12	4.0	1.4(.4)		•		457	7570	ETA AQL	41	-13	01000?000	
5438S	19 50 13	42 22.4	11	1.6		-1.8(.3)	-2.9(.4)					77	8	4000+2020	
5439S	19 51 5	29 30.5	18	2.6	1.4(.4)				30397		EV CYG	R 66	1	10000?000	
5440S	19 51 18	33 50.0	19	2.4	1.5(.4)				30398		V449 CYG	70	3	10000?000	

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′	EA s	ED ′	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
5441S	19 51 21	-8 43.7	11	4.0	1.4(.3)				-10526	7584	56 AQL		32	-18	010007000
5442S	19 52 48	6 16.1	16	3.0	2.0(.4)				10444	7602	BET AQL		46	-11	10C007000
2473S	19 53 0	23 15.2	12	2.0	1.6(.3)						HM VUL		61	-2	100001000
5443S	19 53 38	15 28.3	12	2.1	1.2(.4)		-2.8(.4)		20441				54	-7	400001070
5444S	19 53 50	32 36.7	18	2.5	1.7(.4)	-1.0(.4)			30400		V468 CYG		69	2	300007077
5445S	19 54 41	17 12.1	9	1.9		-.5(.4)	-2.8(.4)		20442		DO 18366		56	-6	400002040
2478S	19 54 55	33 53.6	19	2.4		-1.4(.4)							70	3	7000020??
5446S	19 55 17	24 6.9	17	2.8	1.5(.4)				20443		DO 18377		62	-2	700001020
5447S	19 55 32	39 41.4	20	2.2		-.8(.4)					V1016 CYG		75	6	20000?070
5448S	19 56 12	-8 4.4	15	3.3	1.3(.4)				-10527		RS AQL		33	-19	070001000
5449S	19 56 30	10 12.0	16	2.9	1.6(.3)						SVS 4941		50	-10	100007000
5450S	19 57 10	-4 7.3	12	4.0	1.5(.4)		•		460				37	-17	010007000
5451S	19 57 10	-16 35.9	11	3.9	1.5(.4)				-20578				25	-22	010003000
2487S	19 57 43	-13 40.1	12	4.0		-1.1(.4)	•						28	-21	020007000
5452S	19 57 55	9 28.2	14	4.1			-3.5(.4)						50	-11	+00307040
5453S	19 57 57	35 9.2	12	2.3			-2.8(.4)				SHARP. 101		72	3	40007047
2489S	19 58 41	-10 5.7	15	3.3			-3.2(.4)						32	-20	070004000
5454S	19 59 9	40 1.6	12	2.3	1.6(.4)	-1.3(.5)			40372		AH CYG		76	5	10000+020
5455S	20 0 10	30 39.5	18	2.6	1.7(.4)		-2.8(.4)		30408		DO 18490		68	0	50C007077
5456S	20 0 14	49 54.8	16	1.9	1.3(.4)	-1.2(.4)			50314		Z CYG		84	10	+00012060
5457S	20 0 28	4 33.4	16	3.1	1.4(.4)				463		GC 27796		46	-14	000001000
2499S	20 1 30	21 22.1	12	1.9	1.5(.4)				20450		GC 27818		60	-5	100001000
5458S	20 2 5	44 34.4	21	2.1	1.7(.5)				40378				80	7	10007?000
5459S	20 2 59	44 40.4	21	2.1	1.5(.4)				40381				80	7	10000+000
5460S	20 3 4	19 50.7	17	2.7	1.6(.4)		-2.7(.5)		20453	7679	ETA SGE		59	-6	50000?070
5461S	20 4 19	24 18.3	17	2.6	1.3(.3)				20456		DK VUL		63	-4	10000?000
5462S	20 4 38	61 51.7	33	2.4	1.7(.4)				60279	7701	66 DRA		95	16	?000?1?00
5463S	20 4 42	13 10.1	16	2.9	1.6(.4)				10449		DO 6463		54	-10	10000?000
5464S	20 4 49	87 52.7	40	2.0	1.4(.5)				70162	7704	DO 38091		101	19	?C00+?100
5465S	20 5 8	52 52.6	26	2.3	2.1(.4)						V761 CYG		87	1	?C00??100
5466S	20 5 54	16 30.8	16	2.8	1.8(.4)				20457	7696	DO 18592		57	-9	100007000
5467S	20 6 22	-1 48.1	16	4.3			-3.9(.4)						41	-18	00000+040
5468S	20 6 36	56 25.4	28	1.8	1.8(.4)				60281		DO 38112		91	13	1000?7?00
5469S	20 6 41	33 6.2	10	2.8		-1.9(.5)							71	0	+00007022
5470S	20 6 43	-25 41.4	12	3.9	1.6(.4)		•		-30427				17	-28	010000000
5471S	20 6 55	36 48.1	19	2.4	1.5(.4)				40388		DO 18628		74	2	10000?000
5472S	20 7 49	28 11.6	18	2.6	1.0(.4)				30414		SVS 101948		67	-3	+00001000
5473S	20 8 7	29 15.0	18	2.4	1.5(.4)		-3.6(.4)		30416				68	-2	5000070++
5474S	20 8 34	-14 27.2	11	3.9	1.4(.4)						R CAP		29	-24	010007000
5475S	20 8 35	48 41.5	16	1.9		-.8(.4)					SVS 5058		84	8	200027?00
5476S	20 8 39	33 18.1	10	1.8	1.4(.4)		-3.4(.4)		30417				71	-0	5GC0070++
2518S	20 8 49	-7 48.0	10	2.6		-1.7(.3)	-3.5(.4)					R	35	-21	020004000
5477S	20 8 54	73 50.9	58	2.4		-1.1(.4)							107	21	2000+?700
5478S	20 9 3	-8 17.3	12	4.0		-1.3(.4)	-3.1(.4)					EO	35	-22	06000+000
5479S	20 9 12	-11 51.8	9	2.2		-.8(.4)	-3.4(.4)						31	-23	0?0006000
5480S	20 9 21	-0 47.9	15	4.1			-3.0(.4)						42	-18	00000?040
5481S	20 9 26	-0 34.7	11	2.5			-3.0(.4)	-4.2(.9)			V515 AQL		42	-18	00000?050
5482S	20 9 32	36 26.6	19	2.4	1.9(.4)				40392		V428 CYG	R	74	2	10000?000
2521S	20 9 41	9 46.8	9	2.3	1.0(.3)								51	-13	000001000
2525S	20 10 56	32 5.8	13	1.7		-.6(.4)			30420		V557 CYG	R	70	-1	200002077

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GL	RA(1950) H M S	DEC(1950) ° ' "	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
5483S	20 11 5	25 5.1	17	2.6	1.6(.3)				30421		SVS 101959		65	-5	100007000
2527S	20 11 20	18 48.3	9	2.0		-1.2(.4)							59	-8	200007070
5484S	20 11 25	41 11.4	10	2.0		-.5(.5)	-2.0(.5)		40395		V431 CYG		78	4	600007060
2529S	20 11 44	17 34.1	18	2.8	1.1(.3)		-3.0(.5)				CO SGE		58	-9	50000+070
5485S	20 12 32	60 29.3	30	1.9	1.6(.4)				60284	7742	GC 28120		95	14	1000??700
5486S	20 13 7	29 38.1	18	2.4	1.4(.4)				30422				69	-3	100007000
2539S	20 13 40	36 53.0	14	1.6	1.7(.4)						V432 CYG		75	1	100001000
5487S	20 13 43	-18 32.7	16	3.4	1.2(.3)		-2.8(.6)		-20584				25	-27	0+0005000
5488S	20 13 51	27 40.0	18	2.6	1.3(.4)				30424	7744	23 VUL		67	-4	700001000
5489S	20 13 57	-7 19.1	15	3.3	1.6(.4)				-10532		V499 AQL		36	-22	070001000
2543S	20 14 10	80 .9	62	1.7	1.6(.4)				80039		BD CEP		113	23	703??1100
5490S	20 14 39	49 51.4	23	3.4	1.8(.4)	-1.0(.4)					SVS 101973		88	8	700037?00
5491S	20 14 41	6 54.7	16	3.3	1.2(.3)				10462		DO 6615		49	-15	000001000
5492S	20 15 31	72 26.3	29	2.2	1.4(.4)				70164		DO 38265		106	20	7000?1?00
2545S	20 15 36	36 38.0	14	1.6	1.7(.4)	-.5(.4)					SHARP. 104	R	75	1	200003077
2546S	20 15 46	-15 3.7	11	3.9	1.4(.3)								29	-26	01000+000
5493S	20 15 59	37 51.6	12	2.3		-1.5(.4)					P CYG		78	1	700002027
2548S	20 16 8	43 9.2	15	1.5	1.8(.4)						BRIGHT NEB		80	4	100001?00
5494S	20 16 10	42 35.2	21	2.4	1.7(.4)				40402	7762	GC 28214		80	4	700007100
5495S	20 16 24	37 19.1	19	2.2	1.5(.4)				40403		MX CYG		75	1	100007000
5496S	20 17 12	38 50.4	19	2.3	1.4(.4)				40404		DO 18850		77	2	700001000
5497S	20 20 52	18 11.5	17	2.9	1.0(.3)				20465		DO 18930		60	-11	000001000
5498S	20 20 59	7 48.3	16	3.2	1.3(.3)				10465		DO 6712		51	-16	000001000
5499S	20 21 14	36 41.7	19	2.3	1.7(.4)				40413				75	-0	100007000
5500S	20 21 45	-2 52.8	15	4.1			-3.0(.5)						41	-22	0?000?040
5501S	20 22 9	37 27.0	11	1.6		-1.4(.4)	-3.5(.5)						76	0	20000?06+
2572S	20 22 23	24 7.3	17	2.7			-3.4(.4)						65	-8	4000070+0
5502S	20 22 53	58 40.6	28	1.8	1.6(.4)				60290		DO 38400		94	12	1000??700
5503S	20 22 57	16 49.9	9	2.2	1.5(.3)				20467		DO 18962		59	-12	000001000
5504S	20 23 12	55 2.1	26	1.9	2.6(.4)				60289		V1195 CYG		91	10	1000??700
5505S	20 23 19	23 50.7	17	2.7	1.7(.4)				20468		IK VUL		65	-8	100007000
2573S	20 23 25	33 45.8	10	1.9	1.5(.3)		-2.2(.6)						73	-2	50003?07?
5506S	20 24 2	26 5.3	18	2.9	1.0(.4)				30432		AV VUL.EO		67	-7	+00001000
5507S	20 24 59	40 9.8	14	1.6		-1.5(.4)	-2.8(.6)				HFE 64		79	1	40000+2??
5508S	20 25 16	-15 52.5	10	2.6	1.2(.4)		-3.9(.5)		-20588				29	-28	010004000
5509S	20 26 50	41 43.0	20	2.2	1.5(.4)				40423				80	2	100007?00
5510S	20 29 7	44 45.2	21	2.1	1.3(.3)				40426		V506 CYG		83	3	100007?00
5511S	20 29 49	18 26.7	17	2.9	1.4(.4)				20471		DO 19088		62	-12	000001000
5512S	20 30 29	56 35.4	27	2.0	1.6(.4)				60293	7860	GC 28589		93	10	7000??100
5513S	20 31 9	54 44.9	26	1.8	1.4(.3)				50332		ST CYG		91	9	1000??700
5514S	20 31 36	2 9.4	15	4.1			-2.5(.5)		481		SVS 5204		47	-22	000007040
5515S	20 32 8	19 22.1	17	3.1	1.5(.4)				20473		DO 19132		63	-12	000001000
5516S	20 32 17	23 6.0	12	2.4	1.7(.4)		-2.6(.5)		30438		FG VUL	R	70	-7	+00001040
5517S	20 32 44	52 51.2	14	1.5		-.8(.5)	-3.7(.5)				V1199 CYG		90	8	20004+400
5518S	20 32 45	28 24.0	18	2.7	1.4(.4)				30440		SX VUL		70	-7	+00001000
5519S	20 33 34	42 23.5	12	1.2		-.3(.4)	-3.2(.5)				HFE 67.EO		81	1	400002200
5520S	20 33 41	61 36.4	31	1.8	1.6(.5)				60295		DO 38642		97	13	7000??100
5521S	20 33 59	34 57.3	19	2.4	1.4(.4)				30441				76	-3	700001?00
5522S	20 34 2	61 9.7	31	1.8	1.5(.5)				60294		BX CYG		97	12	7000??100
5523S	20 34 22	33 14.0	13	1.8	1.7(.4)		-4.0(.5)				SVS 5232		73	-5	1000075++

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GL	RA(1950) H M S	DEC(1950) ° '	LA	EO	P(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II °	B II °	OBS. LOG
5522S	20 35 28	59 53.7	21	1.9	2.3(.5)		-3.2(.4)				V778 CYG	96	11	?00047100
5525S	20 35 53	33 34.5	11	2.3	1.7(.4)		-3.1(.6)		30443		DO 19212	75	-4	?00007174
5526S	20 35 56	36 39.9	19	2.3	1.2(.3)				40436		DO 19211	77	-3	+00001?00
5527S	20 36 16	68 23.8	43	3.0	1.9(.4)				70167		DO 38684	103	16	?000?1?00
5528S	20 36 49	37 43.1	20	2.4	1.4(.4)				40437		FF CYG	78	-2	100007?00
5529S	20 37 0	44 53.6	24	2.2	1.8(.4)				40438		V1201 CYG	84	2	?00007100
2628S	20 37 55	50 .2	17	1.4		-1.5(.4)						88	5	200007200
5530S	20 38 25	59 19.6	29	3.4	1.5(.4)				60298		UU CEP	96	11	?00017?00
5531S	20 38 51	52 52.1	24	3.5	1.4(.3)							90	7	?00017?00
2634S	20 39 43	62 17.4	23	1.7		-.8(.4)						99	12	2000?2?00
5532S	20 41 18	11 40.4	15	4.0		-1.4(.4)	-2.4(.5)					57	-18	00000+060
5533S	20 41 28	27 4.4	17	2.5	1.4(.4)				30446		DO 19302	70	-9	000007100
5534S	20 42 29	72 12.2	34	1.1	1.5(.4)						DV CEP	107	18	100???100
5535S	20 42 40	32 20.2	12	2.3		-1.1(.4)					V570 CYG	75	-6	000002?2?
5536S	20 43 2	54 4.3	27	2.7	1.4(.3)							92	7	?00071?00
5537S	20 43 13	40 13.9	19	2.1	1.6(.4)				40445		DO 38781	81	-2	?00001?00
5538S	20 43 18	67 12.2	23	1.7		-1.5(.5)	-2.4(.5)				FI CEP	102	15	200024+00
2642S	20 43 20	42 9.1	14	1.6	1.5(.4)				40446			82	-0	100001?00
5539S	20 43 23	32 17.1	18	2.5	1.4(.4)				30349		V829 CYG	75	-7	000001?00
5540S	20 44 3	29 58.1	18	2.4	1.6(.4)				30452		DO 19406	73	-8	000007100
5541S	20 44 15	2 15.7	14	4.0	.1(.3)		•		491		V AQR	49	-24	01C00+000
2651S	20 44 47	-3 57.9	13	3.9	2.0(.3)		•					43	-27	010007000
5542S	20 44 55	45 50.1	22	2.1	1.6(.5)				50340		CY CYG	85	2	?0C007100
5543S	20 44 59	39 40.7	20	2.4	1.7(.4)				40449			81	-2	10C007?00
5544S	20 45 12	15 37.8	17	3.3	1.6(.4)				20483		GU DEL	61	-17	000001000
5545S	20 45 36	35 40.7	19	2.3	1.5(.5)				40450		V375 CYG	78	-5	000007100
2656S	20 45 53	44 14.2	15	1.6			-3.9(.8)				IC 5067	84	1	40J007400
5546S	20 47 4	40 49.7	19	2.1	1.0(.3)				40451		DO 38865	82	-2	+0C001+00
2661S	20 47 23	-3 12.3	13	3.9	1.5(.3)							45	-28	010007000
5547S	20 47 25	33 3.7	18	2.6	1.1(.3)				30456		DO 19483	76	-7	000001?00
5548S	20 47 59	50 34.9	17	1.4		-1.0(.4)			50344		DO 38893	89	4	200007200
5549S	20 49 5	39 38.2	19	2.1	1.5(.4)				40458			81	-3	+00001?00
5550S	20 49 42	-3 21.4	14	3.9	2.0(.4)		•		495		DO 7038	45	-28	010007000
5551S	20 50 8	-7 58.9	14	4.0	1.5(.4)				-10552			40	-30	010007000
5552S	20 50 11	35 1.6	10	2.7			-3.7(.6)	-6.6(.6)				78	-6	00000?715
2671S	20 51 0	29 29.6	18	2.8	1.8(.4)	-1.2(.4)				7999	DO 19589	73	-10	000003+?0
5553S	20 51 8	20 44.0	17	2.6	1.6(.4)				20491		DO 19588	66	-15	00000?100
2674S	20 51 9	32 55.3	18	2.3	.8(.4)						DO 19599	76	-7	00000+100
5554S	20 52 8	33 15.4	12	2.3	1.3(.5)		-2.8(.5)		30461	8005	GC 29155	77	-7	00000?147
5555S	20 54 11	8 37.4	15	4.0	1.3(.3)		•		10481		DO 7077	57	-23	010007000
5556S	20 55 29	25 20.9	9	1.9	1.9(.5)	-.2(.5)	-4.1(.5)				VW VUL	71	-13	00000+7+0
5557S	20 56 16	22 7.5	17	3.0	1.0(.4)				20494	8032	33 VUL	68	-15	000001?00
5558S	20 56 26	47 28.1	23	2.3	2.0(.4)				50352		DM CYG	88	1	100007?00
5559S	20 56 56	38 31.8	19	2.2	2.1(.5)				40459		DO 19799	80	-6	000007100
2685S	20 56 59	41 7.4	20	2.1	1.2(.4)						DO 39067	83	-3	000007100
5560S	20 58 6	13 26.0	14	3.9			-2.8(.5)	-6.1(.6)	10483		SW DEL	61	-21	00000?750
5561S	20 58 18	19 8.4	16	2.6	1.5(.5)				20497	8044	GC 29329	66	-17	000007100
5562S	20 58 36	59 14.7	29	2.0	1.5(.4)				60302	8049	GC 29330	97	9	1000+?700
5565S	20 59 7	49 56.2	23	1.8	2.0(.5)				50354			90	3	?00007100
5564S	20 59 12	-4 22.3	14	3.9	1.3(.3)		•		498		DO 7129	45	-31	010007000

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′ ″	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II °	B II °	OBS. LOG
5565S	20 59 13	45 10.8	22	2.6	1.5(.4)				50353			87	-1	000001?00
5566S	20 59 34	18 46.9	12	2.0	1.5(.4)				20498		DO 19850	66	-18	000001100
5567S	20 59 55	-10 11.9	15	3.7	9(.4)				-10555		GC 29365	39	-34	0?G001G00
5568S	21 0 30	34 34.6	19	2.2	1 6(.5)				30466		V1058 CYG	79	-8	000001100
5569S	21 0 47	48 .9	23	2.3	1.6(.4)	•	-3.1(.4)					89	1	500001?00
5570S	21 0 52	14 33.8	16	2.6	1.8(.4)				10484	8057	DO 19890	63	-21	00000?100
2592S	21 0 53	-2 32.9	15	3.6	1.5(.3)							47	-30	0?0001000
5571S	21 0 55	27 6.8	18	2.9	9(.4)				30468		DO 19905	73	-13	000001?00
2693S	21 0 56	59 30.2	17	1.7	1.5(.3)	-.9(.4)			60303			97	9	200011?00
2696S	21 2 11	25 34.9	17	2.4	1.1(.4)							72	-14	00000?100
5572S	21 2 22	5 21.0	16	3.8	1.4(.4)				10485	8066	3 EQU	55	-26	000001000
5573S	21 2 47	42 14.3	20	2.4	1.5(.4)		-3.9(.4)		40467		V1059 CYG	85	-3	000005?0?
2701S	21 3 11	-18 19.7	15	3.6	1.6(.4)		-3.1(.4)					30	-38	0?0005?0?
2705S	21 3 40	7 38.7	11	2.7	1.5(.4)				10486		Y EQU	57	-25	010001000
5574S	21 5 8	7 10.1	15	3.9		-1.3(.4)	-3.2(.4)					57	-26	00000+060
5575S	21 6 2	4 44.7	15	3.9		-1.7(.4)	-3.3(.5)					55	-27	0?000+060
5576S	21 6 3	32 1.2	18	2.5		-.9(.4)					CT CYG	78	-10	000002???
5577S	21 6 9	56 44.7	38	1.9	1.5(.3)							103	13	100+??700
5578S	21 7 12	-29 53.1	16	3.7	1.7(.4)				-30442		GC 29577	16	-42	000001000
2710S	21 7 32	37 42.8	18	2.1	1.1(.3)		-2.7(.5)					82	-7	000005?0?
5579S	21 8 22	4 51.0	14	3.8	1 8(.4)						IC 1360	55	-28	01000?000
5580S	21 9 3	67 5.0	27	2.2		-1.5(.4)	-2.7(.4)					104	13	+00647+00
5581S	21 9 22	44 0.0	21	1.9	2.1(.4)				40473		V579 CYG	87	-3	00000?100
5582S	21 10 4	41 39.3	20	2.4		-.9(.4)					V528 CYG	85	-4	000002?0?
5583S	21 10 10	79 7.2	82	2.4	1.9(.3)							114	21	?001???00
5584S	21 10 24	75 41.4	60	3.5	1.8(.4)				80043		SVS 5385	111	19	?00?1??00
5585S	21 11 8	55 50.2	27	2.3	1.6(.3)	•						56	5	10000??00
2724S	21 11 11	70 51 4	27	1.8		-1.1(.4)					SVS 5386	107	15	?002+2200
5586S	21 11 21	31 53.8	10	1.7		-.8(.4)	-3.1(.5)				V472 CYG	78	-11	000002447
5587S	21 11 47	42 44.4	20	2.0	•		-3.9(.4)				SVS 5381	86	-4	0C0004?00
5588S	21 12 3	-0 8.6	14	3.9	1.2(.3)				502	8121	DO 7263	51	-31	01000?000
5589S	21 12 20	82 33.6	118	3.5	1.6(.3)							116	23	?00?1??00
5590S	21 12 50	61 40.3	24	2.0	1.5(.4)		-3.5(.4)		60306		DO 39382	100	9	1000+4?00
5591S	21 12 58	37 49.5	18	1.5	2.0(.4)				40475	8130	TAU CYG	83	-7	000001?00
2726S	21 13 0	-1 19.2	14	3.9		-1.0(.4)						50	-32	02000+0?0
5592S	21 13 11	46 13.7	23	2.8	1.4(.3)				50366		DO 39351	89	-2	000001?00
5593S	21 13 26	9 6.2	16	2.7	1.5(.5)				10490		T EQU	60	-26	00000?100
5594S	21 13 45	38 .3	18	1.5	1.4(.4)	-.5(.4)					V479 CYG	83	-7	000003?0?
5595S	21 14 0	57 23.6	25	3.6	1.3(.3)							97	6	?0001?700
5596S	21 14 25	39 38.3	18	1.5	1.6(.4)				40476		DO 20209	82	-8	000001?00
5597S	21 14 27	-20 35.1	12	2.7		-1.8(.4)						29	-41	02000+020
2732S	21 14 40	8 27.3	16	3.6		-1.1(.4)						60	-27	000002??0
2733S	21 14 47	41 45.6	10	2.3			-3.5(.4)					86	-5	000004?0?
5598S	21 15 3	49 46.3	23	1.8	1.4(.5)				50368		DO 39381	92	1	00000?100
2734S	21 15 9	11 13.7	17	3.5	1.1(.3)						RY EQU	62	-25	000001?00
5599S	21 15 35	47 53.2	16	1.7		-.7(.4)					V589 CYG	90	-1	000002200
5600S	21 16 1	-68 49.7	46	3.8			-3.2(.4)					325	-38	000000040
2738S	21 16 5	-1 27.8	14	3.9	1.2(.3)		•					51	-33	01000?000
5601S	21 16 9	-13 20.4	17	3.8			-3.8(.4)					38	-39	0+000?040
2741S	21 16 37	19 52.7	18	3.3	1.0(.3)							70	-20	000001?00

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° '	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
5602S	21 16 41	40 46.3	20	1.9		-.4(.4)					V1067 CYG		86	-6	000000207
5603S	21 17 0	17 2.0	11	2.3	1.4(.4)	-.7(.4)	-3.1(.8)						69	-22	000007340
2744S	21 17 3	8 21.4	16	3.6	1.2(.3)								60	-28	000001?00
5604S	21 17 4	23 16.9	17	2.4	1.1(.4)				20504		SVS 8648		73	-18	000007?00
5605S	21 17 50	62 16.0	30	3.6	1.5(.3)				60314		CS CEP		101	9	?00017?00
5606S	21 19 33	56 9.3	26	1.6	1.3(.4)				60316				97	5	00000?100
5607S	21 19 50	57 11.6	27	1.6		-.3(.4)					BRIGHT NEB		98	5	000007?C0
5608S	21 19 50	19 35.4	16	2.5	1.3(.4)				20505	8173	1 PEG		70	-21	000007100
5609S	21 20 12	-5 49.2	15	3.7	1.1(.4)				-10560		GC 29917		47	-36	0+0001000
5610S	21 20 20	-9 31.1	15	3.7	1.8(.4)				-10561	8175	17 AQR		43	-38	0?0001000
5611S	21 20 20	-19 53.2	18	3.6			-2.9(.5)	-6.4(.6)					30	-42	0?000+050
5612S	21 20 29	-7 22.3	13	3.8	1.8(.4)		•		-10563		RZ AQR		45	-37	01000?000
2762S	21 23 38	16 5.4	17	3.5	1.2(.3)								68	-24	000001?00
2763S	21 23 40	-31 18.1	16	3.8			-3.7(.4)						15	-45	000004000
5613S	21 23 53	-24 10.2	19	3.7			-3.6(.5)						25	-44	000007040
5614S	21 25 5	13 54.9	16	2.6	1.3(.4)	-.7(.4)			10495		SVS 8658		66	-26	000007?70
5615S	21 25 26	38 27.9	10	2.1	1.5(.4)		-3.7(.6)		40483			R	84	-10	000000104
5616S	21 25 44	7 55.5	16	3.6	1.2(.4)				10496	8219	GC 30060		61	-29	0?0001?00
5617S	21 26 4	24 27.1	11	2.2	1.0(.4)		-2.6(.5)		20510		DO 20469		75	-19	000000140
2770S	21 26 54	51 2.5	26	3.3	•		-3.8(.4)						94	0	000004?00
5618S	21 27 38	55 11.6	29	3.5	1.4(4)	-1.1(.4)					SVS 102106		97	3	000003+00
5619S	21 28 4	47 7.4	21	1.7	1.1(.4)	-1.1(.4)			50381		BK CYG		91	-3	000000300
5620S	21 28 5	-14 20.3	15	3.8	1.2(.3)				-10564				38	-42	0+0001000
2774S	21 28 20	12 44.2	12	2.2	1.6(.4)				10497		FT PEG		66	-27	000001100
5621S	21 28 46	12 58.7	17	3.6		-.7(.4)					BRIGHT NEB		65	-27	000002?70
5622S	21 28 59	50 27.9	13	2.1		-1.1(.4)	-3.6(.4)						94	-0	000006?00
5623S	21 29 25	61 27.8	19	2.0	1.6(.5)	-.3(.4)	-3.2(.6)		60320		DO 39718		101	8	000??2500
5624S	21 29 48	0 33.0	10	2.6	1.5(.4)	-.4(.4)							55	-35	0?0003?70
2778S	21 30 14	74 30.4	39	2.1			-3.8(.4)						111	17	+0_44++00
5625S	21 31 32	56 32.3	30	3.6		-2.0(.4)	-3.1(.4)						98	4	000006?00
5626S	21 32 19	-66 8.2	24	2.8		-1.6(.4)							328	-41	000000020
2783S	21 32 20	13 39.9	17	3.6	.8(.3)								67	-27	000001?00
5627S	21 33 29	60 39.0	21	2.1	1.6(.4)	-1.3(.4)			60321		SVS 9444		101	7	000+2?100
5628S	21 33 55	32 17.1	18	2.0	1.2(.4)				30475				82	-14	000000100
5629S	21 35 2	-35 20.3	13	2.5			-3.5(.4)						10	-48	000004040
5630S	21 35 58	-4 24.7	18	3.9	1.2(.3)				505		DO 7525		51	-39	0+0001?00
5631S	21 36 43	9 1.6	17	3.8	1.7(.4)				10501		DO 7532		64	-31	0?0001?00
5632S	21 36 43	8 4.1	16	2.7	1.5(.4)				10500		EM PEG		63	-32	0?0007100
5633S	21 37 26	44 56.3	21	1.7	1.4(.4)				40487		V539 CYG		91	-6	000000100
5634S	21 38 5	-7 38.5	18	3.7			-3.3(.5)						47	-41	0?000+?40
5635S	21 38 43	65 35.4	37	2.4	1.7(.3)				70172		DO 39929		105	10	0001???00
2791S	21 38 47	51 30.7	24	1.8	1.4(.4)				50389		SVS 5461		96	-1	000000100
5636S	21 40 43	22 13.7	17	3.5	1.3(.4)		•		20517		VX PEG		76	-23	010000?00
2797S	21 40 50	61 31.4	19	1.7	1.7(.4)		-3.7(.4)		60324				102	7	0004+1100
5637S	21 41 42	71 1.9	42	3.7	1.4(.4)				70175	8317	11 CEP		109	14	700+1??00
2801S	21 42 8	17 4.8	12	2.2	1.4(.3)				20518	8313	9 PEG		72	-27	010000100
5638S	21 43 28	67 21.8	35	3.7	•		-3.4(.4)						107	11	000?4??00
5639S	21 43 48	22 44.7	17	2.3	1.5(.5)				20519	8321	12 PEG		77	-23	000000100
5640S	21 44 0	65 38.7	37	2.4	1.3(.3)								105	10	0001???00
5641S	21 44 48	25 17.4	17	2.4	1.3(.5)				30479		CT PEG		79	-21	000000100

TABLE OF OBSERVATIONS

GL	RA(1950)	DEC(1950)	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II	B II	OBS. LOG
	H M S	° ′	S ′									°	°	
5642S	21 46 10	42 6.2	20 1.7		1.5(.4)				40495		DO 40142	91	-9	000000100
2809S	21 46 15	60 27.5	15 1.6		1.7(.3)	-1.4(.5)	-3.4(.5)		60329	8339	12 CEP	102	5	000162100
5643S	21 47 13	78 45.4	80 2.6		1.5(.5)				80050		DO 40173	115	19	700+??100
5644S	21 49 42	74 35.9	32 2.0		1.8(.4)	-.8(.4)	-2.7(.5)				SVS 102133	112	16	100?42?00
5645S	21 49 44	-46 34.0	10 2.4				-3.3(.5)					352	-50	000000040
5646S	21 50 42	82 34.8	26 3.7		1.5(.4)	-.7(.5)						104	7	000+3??00
2814S	21 52 30	79 19.0	48 2.0		1.8(.3)		-2.8(.5)		80051		GC 30681	115	20	?105??200
5647S	21 53 43	-9 51.9	9 2.1		1.3(.4)	-.7(.5)			-10572			47	-45	0?000+3?0
5648S	21 54 7	21 0.0	10 2.5		1.5(.4)		•		20524	8372	DO 21021	77	-26	010000?00
5649S	21 54 39	-66 45.5	41 3.1				-3.0(.4)					325	-43	000000040
5650S	21 54 42	39 41.5	19 1.8		1.1(.4)				40498		SVS 102138	90	-12	000000100
5651S	21 56 11	-15 18.9	14 3.9		1.6(.4)				-20613			41	-48	000001?00
5652S	21 56 13	65 54.0	38 2.2		1.5(.3)				70180		DO 40491	107	9	0001??200
5653S	21 56 32	-25 30.0	18 3.3				-3.2(.5)	-7.0(.8)				R 26	-52	000002050
5654S	21 57 23	-42 6.1	11 2.3			-.3(.7)	-3.5(.4)					359	-52	000000060
5655S	21 57 42	76 11.6	83 2.0		1.6(.3)							113	17	?00172?00
5656S	21 57 52	57 7.3	29 2.5		1.5(.4)				80336		GN CEP	101	2	000102?00
2829S	21 58 36	76 25.5	37 1.8		1.4(.4)		-2.9(.5)		80053		DO 40578	113	17	110+42?00
5657S	21 58 38	8 .6	14 3.1		1.2(.4)	-.8(.4)			10506	8393	19 PEG	87	-36	0?0003??0
5658S	21 58 38	5 52.9	11 2.7		1.8(.4)	-.3(.5)			10505		V PEG	65	-37	010002??0
5659S	21 59 0	48 16.8	23 2.7		1.7(.4)				50414		DO 40575	96	-5	000100?00
2834S	22 0 20	54 29.5	19 1.7		1.4(.4)				50416		DQ CYG	100	-0	000100100
5660S	22 1 39	-30 6.8	14 3.9		1.7(.4)	-1.1(.4)			-30450	8405	13 PSA	19	-53	0000030?0
5661S	22 1 46	-35 53.4	15 3.9		1.3(.4)				-30494E			9	-54	000001000
5662S	22 2 36	14 34.8	16 3.5		1.2(.4)		•		10508		GC 30883	74	-32	010000?00
5663S	22 2 41	67 31.2	40 2.1		1.3(.3)							108	10	0001??200
2841S	22 3 9	59 53.5	22 2.3		1.3(.4)							104	4	000101?00
5664S	22 3 13	-39 44.3	11 2.3			-.9(.5)	-.9(.9)		-30495E	8411	LAM GRU	2	-54	000000060
5665S	22 3 25	62 33.9	33 2.2		1.9(.4)				80339	8428	20 CEP	105	6	0601??200
2846S	22 3 34	10 18.8	16 3.6		1.8(.4)	-.7(.4)	•					70	-35	030000??0
5666S	22 4 13	-0 40.6	15 2.9		1.6(.5)				514		UW AQR	60	-42	0?000?100
5667S	22 4 23	25 5.7	17 2.3		1.2(.4)				30485	8430	IOT PEG	82	-24	000000100
5668S	22 4 28	81 38.1	100 1.7		1.5(.3)						GO CEP	117	21	7001??200
2849S	22 4 33	41 37.1	19 1.7		1.6(.4)							93	-11	0000001G0
5669S	22 4 39	-40 39.2	11 2.3			-.7(.6)	-1.6(.8)	-6.9(.8)				1	-54	000000070
5670S	22 4 46	48 13.7	23 2.6		1.5(.4)				50418		CT LAC	97	-6	000100?00
2853S	22 5 28	17 31.3	16 2.6		1.1(.4)							77	-30	0?0000100
5671S	22 5 30	47 28.7	23 2.6		1.6(.4)				50419		DQ LAC	97	-7	000100?00
5672S	22 5 31	-34 49.3	10 2.2		1.7(.4)		-3.1(.4)		-30496E		GC 30953	11	-54	0000050+0
5673S	22 6 49	44 45.7	21 1.9		1.0(.4)						BM LAC	95	-9	000+00100
5674S	22 9 31	38 10.7	20 2.9		1.5(.4)		•		40504			92	-15	010000?00
5675S	22 9 43	24 43.5	18 3.5		1.8(.4)		•		20530	8466	GC 31064	83	-25	010000?00
5676S	22 9 59	-5 38.9	14 3.7		1.3(.3)		•					56	-46	01000??00
5677S	22 11 47	53 20.7	26 2.3		1.7(.4)				50423			101	-2	000?00100
2874S	22 13 45	3 6.0	11 2.7		1.9(.4)		-3.8(.4)					66	-42	0100042+0
5678S	22 14 13	-8 1.7	10 2.5		1.7(.3)				-10578	8499	THE AQR	54	-49	0?0001?00
5679S	22 14 14	47 28.5	22 2.1		1.4(.4)						AV LAC	98	-7	000+00100
2878S	22 14 57	66 45.7	19 1.7		1.9(.4)	-.5(.4)					BM CEP	109	9	000122100
5680S	22 15 9	-10 17.2	16 3.5				-4.1(.4)					51	-50	000002+40
5681S	22 15 37	61 17.3	20 2.4				-3.3(.4)				BRIGHT NEB	106	4	000?04?00

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′	EA S	ED ′	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II °	B II °	OBS. LOG
2682S	22 16 54	51 11.4	24	2.3	.5(.4)							100	-5	000+00100
5682S	22 18 38	-61 5.6	32	2.5			-2.8(.5)				UU TUC	329	-48	0000000040
5683S	22 19 40	-51 1.1	23	2.2		-1.9(.4)						343	-53	0000000020
2397S	22 21 43	35 46.0	10	1.3	1.9(.4)	-1.2(.5)					NGC 7276	92	-18	0000000??
5684S	22 21 46	51 58.2	25	2.4	1.6(.5)				50428	8538	BET LAC	101	-4	000?00100
5685S	22 22 56	51 1.0	14	1.5	1.9(.4)		-3.6(.5)		50429		AC LAC	101	-5	000100500
5686S	22 23 9	68 46.6	41	1.9	1.8(.3)							110	10	000122?00
5687S	22 23 12	-48 40.2	23	2.4		-1.6(.4)					S GRU	346	-55	0000000020
2902S	22 24 10	63 3.1	24	2.5	1.6(.3)				60354		DO 41365	107	5	000??1100
5688S	22 25 39	43 52.3	22	2.7	1.3(.4)		•		40510		GC 31393	97	-12	010?00?00
5689S	22 25 51	31 34.9	10	2.2	1.7(.4)		-3.1(.6)		30493	8555	DO 21496	91	-22	0000000104
5690S	22 26 6	-65 41.5	35	2.6			-3.4(.4)					323	-46	0000000040
5691S	22 26 57	40 2.2	19	2.0	1.5(.4)				40512		S LAC	96	-15	000?00100
5692S	22 27 37	34 28.9	10	2.1			-3.6(.5)					93	-20	000+00304
5693S	22 27 52	-5 40.0	15	3.7			-3.8(.4)					59	-50	040000??+0
5694S	22 28 6	12 49.6	15	3.4	1.3(.3)				10519		GM PEG	78	-37	0100000?00
5695S	22 28 20	37 16.4	18	1.9	1.8(.5)				40513		DO 21536	94	-17	000?00100
2917S	22 28 41	-31 56.1	13	3.9	.9(.3)	-1.6(.4)					R	15	-59	0000?30+0
5696S	22 30 59	0 57.7	15	3.6	1.8(.4)		•		519		DO 7836	68	-46	0100000?00
5697S	22 31 19	58 11.2	29	2.2			-2.9(.4)				SHARP. 138	.06	0	000400?00
2920S	22 31 36	66 40.7	27	2.4	1.2(.3)				70188			110	8	010+?1?00
5698S	22 32 8	56 21.8	19	1.6	1.6(.4)	-2.5(.4)			60360	9594	BX LAC	105	-1	020+00100
5699S	22 33 29	-7 50.8	15	3.2	2.0(.4)						SVS 102190	58	-52	000000?100
5700S	22 34 22	48 3.0	23	2.4	1.7(.4)				50437		BY LAC	101	-9	000100?00
5701S	22 34 31	52 20.7	25	2.4	1.5(.4)				50438		AK LAC	103	-5	000100?00
2926S	22 34 36	65 34.7	28	3.8	1.8(.4)		-2.5(.6)					110	7	000?5?200
5702S	22 35 53	-14 18.8	10	2.4	.6(.3)	-.9(.4)			-10584		AB AQR	49	-56	000003+?0
2927S	22 36 28	72 48.8	32	2.1			-3.2(.4)					113	13	000447?00
5703S	22 36 47	20 53.0	17	2.6	1.6(.4)				20533			86	-32	0?00000100
5704S	22 36 56	-61 50.5	32	2.3			-2.7(.5)				T TUC	328	-49	000000040
5708S	22 38 6	44 .6	22	2.5	1.5(.4)				40816	8632	11 LAC	100	-13	000100?00
2933S	22 38 54	10 45.4	15	3.4	1.6(.4)		-2.8(.5)					78	-41	050000??0
5706S	22 39 21	30 41.6	18	2.8	1.5(.4)				30497	8638	DO 21674	83	-24	0?0100?00
5707S	22 39 38	-29 35.1	12	3.8	1.0(.3)				-30453	8637	19 PSA	21	-62	000001?00
2937S	22 40 12	53 38.2	19	1.8	1.5(.4)				50441	8648	DO 41817	105	-4	000100100
5708S	22 40 44	77 13.5	59	4.1	.6(.3)						SVS 5606	118	16	000+?1+00
5709S	22 41 36	41 33.4	12	2.3	1.7(.4)	-2.8(.6)			40520	8656	13 LAC	99	-15	000100+02
2950S	22 42 49	46 55.0	16	1.8	1.6(.3)				50444		DO 41913	102	-10	000?00100
2951S	22 42 50	6 37.0	15	3.5		-1.8(.4)						76	-44	020000+?0
5710S	22 43 6	56 18.6	27	2.1	1.7(.4)		•				DV LAC.EO	106	-2	010?00?00
5711S	22 43 8	52 16.9	25	2.3	2.0(.4)				50443	8661	QC 31749	104	-6	000100?00
5712S	22 43 38	-10 36.4	13	4.1	1.1(.4)						IC 1451	57	-58	000001?00
5713S	22 43 48	-11 24.9	10	2.8	1.2(.4)		-4.3(.8)		-1C586		GC 31765	55	-57	0000014+0
5714S	22 44 10	11 55.3	15	3.4	2.1(.4)		•		10522	8665	XI PEG	81	-40	0100?0?00
2956S	22 45 20	12 2.8	15	3.4		-1.3(.4)	•					82	-40	020000??0
5715S	22 45 46	61 0.0	18	2.2	1.4(.4)	-.8(.4)			60366		GR CEP	109	2	000?00300
5716S	22 46 9	49 19.1	24	2.5	1.4(.4)		•		50447		DO 41998	103	-9	010+00?00
5717S	22 46 10	32 3.2	18	2.7	1.5(.3)							95	-24	0?0100?00
2959S	22 46 10	18 18.2	17	2.7	1.2(.4)							86	-35	0?0000100
5718S	22 47 26	59 24.1	31	3.0	1.0(.4)				60369		CV CEP	108	0	000+00100

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
5719S	22 47 26	-40 8.7	21	2.8			-2.7(.5)						358	-62	000007040
5720S	22 48 14	17 38.6	17	2.7	1.4(.4)						SX PEG		87	-36	0?0000100
2972S	22 49 7	7 1.0	15	3.5	1.2(.3)								78	-45	010000?00
2973S	22 49 15	47 49 7	23	2.4	1.9(.3)								103	-10	000100?00
5721S	22 49 45	52 .8	26	2.9	1.5(.4)				50448		CL LAC		105	-6	000+00100
2978S	22 49 56	17 29.0	17	2.7	1.3(.4)						DO 21822		87	-37	0+0000100
2979S	22 49 57	50 42.2	17	1.8	1.7(.4)				50449		FO LAC		105	-8	000100100
2980S	22 50 25	50 27.3	17	1.7	1.8(.3)				50450		DO 42118		104	-8	010100?00
5722S	22 51 11	59 50.5	30	1.9	1.6(.3)				60373	8707	GC 31922		109	1	000100?00
5723S	22 51 57	24 5.6	17	2.4	1.7(.4)				20540		DO 21869		92	-31	0?0?00100
5724S	22 52 14	-9 39.0	16	3.4	1.2(.5)				-10589		TT AQR		60	-57	000002100
5725S	22 52 30	20 3.4	17	2.9	"		-5.0(.4)				NGC 7415		89	-35	0?0400+00
5726S	22 53 38	20 11.8	17	2.9	1.4(.3)								90	-35	0?0100?00
2994S	22 54 42	54 25 9	26	2.1		-1.1(.4)							107	-5	000200+00
5727S	22 54 46	-53 46.6	26	2.2		-1.5(.4)		-6.7(.6)					334	-56	000000030
2996S	22 54 53	61 15.5	17	1.3	1.3(.3)	-.5(.5)			60377				110	2	010300?00
2997S	22 54 54	61 46.9	31	1.8		-1.0(.4)	-2.9(.4)						110	2	000600?00
5728S	22 55 3	-26 30.1	12	3.9	1.4(.4)				-30459				26	-65	000?01?00
5729S	22 55 11	17 47.1	16	3.3	1.7(.4)				20542		BI PEG		88	-37	0?00.0?00
5730S	22 55 25	19 21.3	18	2.9	1.4(.3)								89	-35	0?0100?00
3002S	22 55 51	28 20.1	12	1.8	1.1(.4)	-1.2(.4)							95	-28	0+0200200
5731S	22 56 0	64 53.4	34	1.7	"		-3.9(.4)						111	5	000???200
5732S	22 56 10	56 42.3	14	2.0	1.5(.3)				60378		DO 42266		108	-3	010?00?00
3003S	22 56 32	24 38.8	12	1.8	1.7(.4)				20544		DO 21933		93	-31	0?0100100
3014S	22 59 12	56 48.6	20	1.9	1.8(.4)				60380	8761	GC 32091		108	-3	000100100
5733S	22 59 42	50 32.3	24	2.2	2.1(.4)				50456				106	-8	0001C0?00
5734S	22 59 56	-6 52.0	13	4.1	1.6(.4)				-10592	8763	82 AQR		66	-57	000001?00
5735S	23 2 5	66 57.4	37	1.8	2.1(.4)				70192	8779	GC 32142		113	6	000???00
5736S	23 2 52	28 43.2	17	2.2	1.5(.5)				30505		DO 22014		97	-28	0?0+00100
5737S	23 3 0	58 18.2	28	1.9	1.9(.4)				60384				109	-1	000100?00
3021S	23 3 16	65 7.9	24	2.6		-1.3(.4)	-4.0(.6)						112	5	000++6400
5738S	23 4 8	-23 59.3	12	3.9	1.7(.3)				-20628	8789	86 AQR		35	-66	000001?00
5739S	23 4 11	-30 33.3	17	3.8	1.9(.4)				-30463			B	19	-67	C00002?00
3025S	23 4 35	-25 53.8	10	2.7	1.4(.4)				-30464		AF SCL		31	-67	000001100
3027S	23 5 2	46 6.4	16	1.9	1.5(.4)				50438	8804	4 AND		105	-13	0?0100100
3032S	23 6 50	75 8.0	27	1.7	1.7(.4)	-1.5(.5)	-3.1(.4)		60056	8819	PI CEP		116	14	000162+00
5740S	23 7 26	60 58.4	30	1.7	1.7(.5)				60388		GU CEP		111	1	000100?00
5741S	23 7 36	80 12.8	91	2.4	1.9(.3)							EO	119	18	0?0???00
3035S	23 7 46	17 46.0	12	2.1	1.3(.3)								92	-39	0?0100100
3036S	23 7 50	0 1.9	16	3.4	.9(.4)								77	-53	000000100
3037S	23 7 54	39 55.2	15	2.0	1.4(.3)				40530				103	-19	010+00100
3038S	23 8 11	-11 58.0	10	2.2	1.2(.3)								61	-62	000001?00
3040S	23 8 51	0 11.1	16	3.4	.8(.4)								78	-53	000000100
5742S	23 10 9	13 6.9	16	3.4	1.5(.3)		•					R	89	-43	010+00?00
5743S	23 10 41	8 41.5	16	3.2	1.5(.4)				10530		DO 7962		86	-47	0?0000100
5744S	23 10 54	12 25.4	16	3.0	1.2(.3)								89	-44	0?0100?00
5745S	23 11 54	29 8.9	18	3.3		-1.1(.4)	•						99	-29	020+00?0?
3050S	23 11 54	-34 9.8	11	3.8	1.3(.3)								9	-68	000001?00
5746S	23 11 58	66 16.1	18	1.7	1.4(.3)								113	5	000???00
5747S	23 13 11	34 27.9	19	3.1	1.5(.3)		•						101	-24	010+00?00

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° '	EA S	ED '	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS	L II °	B II °	OBS. LOG
3060S	23 14 27	-28 43.9	10	2.7	1.7(.4)				-30467		GC 32411	24	-69	000001100
5746S	23 14 29	29 35.6	10	2.2	1.6(.5)		-3.8(.6)		30508		DO 22146	100	-29	0?0+00104
3062S	23 14 38	32 .1	13	1.8			-3.8(.5)				BRIGHT NEB	101	-26	0?040040+
5749S	23 15 5	73 29.3	33	3.6	1.6(.4)						SVS 102245	116	12	0?0???100
5750S	23 16 13	-29 39.6	16	3.6	1.4(.5)				-30469		GC 32460	24	-70	000001100
3069S	23 16 46	-38 4.2	1'	3.8	1.4(.3)							358	-68	000001000
5751S	23 16 52	67 51.4	32	4.1	1.0(.3)	-.9(.4)			70194	8872	OMI CEP	114	7	000?+3?00
3070S	23 16 53	56 55.6	20	1.9			-3.5(.4)		60390		DO 42892	111	-3	0?04004?0
5752S	23 17 25	41 49.1	15	1.9	1.4(.4)	-1.1(.5)			40534	8876	10 AND	105	-18	0?0100200
5753S	23 17 43	32 39.8	19	3.2	1.5(.3)							102	-26	010?00?00
3077S	23 17 53	46 57.5	17	2.1	1.5(.4)						EU AND	107	-13	010?00100
5754S	23 17 53	5 6.6	16	3.3	1.5(.5)				10532	8878	7 PSC	85	-51	000000100
5755S	23 18 28	61 56.2	31	1.6	1.5(.3)				60400	8886	GC 32508	113	1	0?0100?00
3080S	23 18 32	39 20.8	15	2.0	1.6(.4)				40535		RY AND	105	-20	010?00100
5756S	23 19 0	20 18.3	17	2.9	1.8(.5)				20547		DO 22187	96	-38	0?0100?00
5757S	23 19 27	63 23.2	33	2.0	1.1(.3)		•					113	3	010?00?00
5758S	23 19 44	25 33.9	17	2.9		-.9(.4)			30511		GC 32530	99	-33	0?0200?00
5759S	23 19 49	-59 16.0	30	2.3		-1.8(.4)						323	-55	000000020
5760S	23 20 11	28 28.0	17	1.6		-.7(.4)					BRIGHT NEB	100	-30	0?0?00207
5761S	23 20 13	26 41.5	17	3.1		-1.4(.4)						100	-32	020?00+00
5762S	23 20 16	25 39.8	12	1.9	1.8(.4)				30511		GC 32530	99	-33	0?0100100
5763S	23 20 34	12 .5	16	3.1	1.6(.4)				10534	8893	66 PEG	92	-45	0?0100?00
5764S	23 21 4	55 53.5	27	2.3	1.8(.4)		•		60403		V353 CAS	111	-5	010?00?00
5765S	23 21 46	41 19.1	21	2.9	.5(.4)				40537		DO 43003	106	-18	0+0+00100
5766S	23 21 50	-17 34.8	11	3.9	1.5(.4)				-20634		RU AQR	54	-68	000001?00
5767S	23 21 59	12 40.0	16	3.4	1.1(.3)		•					92	-45	010+00?00
3092S	23 23 14	-11 27.1	7	1.9	1.3(.4)	-1.0(.5)			-10599			67	-64	000001320
5768S	23 23 37	27 33.5	18	2.8			-3.7(.4)					101	-31	0+0400?00
3097S	23 24 26	5 23.3	17	3.5		.9(.4)						88	-51	000000100
5769S	23 25 19	59 4.2	30	2.2	2.0(.4)		•		60405		DO 43114	112	-2	010?00?00
5770S	23 25 37	44 58.8	22	2.2	1.6(.3)							108	-15	0?0100?00
5771S	23 26 24	-9 30.8	12	4.0	.9(.4)				-10602	8921	GC 32662	72	-64	000001?00
5772S	23 26 38	59 27.7	29	1.8	1.7(.4)				60406		DO 43132	113	-1	0?0100?00
3103S	23 27 0	56 24.1	20	1.9	1.5(.3)				60407		V356 CAS	112	-4	0?0100100
3108S	23 27 39	-17 19.5	15	3.7	1.3(.4)							97	-69	000001100
5773S	23 28 16	53 35.3	26	2.5	1.1(.3)		•					111	-7	010+00?00
5774S	23 30 16	23 35.7	17	2.9	2.2(.4)				20549		GC 32740	101	-36	0?0100?00
5775S	23 31 6	5 50.9	15	3.2	1.5(.4)				10537			91	-52	000100?00
5776S	23 31 43	12 40.5	16	3.0	1.3(.3)							95	-46	0+0100?00
5777S	23 32 9	51 52.3	24	1.8	1.3(.3)							111	-9	0?0100?00
3117S	23 32 18	71 22.2	33	1.5	1.8(.4)				70198	8952	DO 43318	117	10	0101??00
5778S	23 33 51	-69 54.7	43	2.0		-1.7(.4)						312	-46	000000020
5779S	23 34 44	46 49.9	22	2.0	1.6(.4)				50470		GG AND	110	-14	0?0100?00
5780S	23 35 6	71 5.8	23	2.0		-1.3(.4)	-3.5(.4)					117	9	0?0?6?00
5781S	23 35 10	55 33.0	26	1.7	2.2(.5)				60414		DO 43352	113	-6	0?0100?00
5782S	23 37 24	51 47.6	24	1.8	1.5(.4)				50476		DO 43429	112	-9	0?0100?00
5783S	23 38 58	-18 16.5	15	3.8	1.3(.4)				-20638	8980	103 AQR	59	-71	00000+100
3132S	23 39 55	44 39.7	18	2.2	1.4(.4)				40543	8986	GC 32924	110	-16	010?00100
3134S	23 40 3	32 55.5	18	3.0	1.1(.3)		•					107	-27	010+00000
5784S	23 41 22	0 4.3	15	3.3	1.6(.4)				531		SVS 5784	90	-58	000100?00

TABLE OF OBSERVATIONS

GL	RA(1950) H M S	DEC(1950) ° ′	EA	ED	M(4)	M(11)	M(20)	M(27)	IRC	BS	COMMENTS		L II °	B II °	OBS. LOG
3137S	23 41 23	24 25.7	17	2.9	1.6(.3)								104	-36	0?0100000
5785S	23 41 47	29 5.2	18	2.7	1 7(.4)				30516	8997	78 PEG		106	-31	0?0100000
3142S	23 42 15	56 57.4	21	2.3		-.6(.4)					SVS 102283		114	-4	020?00200
3146S	23 43 39	-7 9.5	16	3.8	1.0(.4)								83	-65	000007100
3155S	23 46 22	21 47.9	17	3.0	1.6(.3)						DO 22462		104	-39	0?0100000
5786S	23 46 32	68 25.6	24	2.2	1.9(.4)	-1.4(.4)			70201		DO 43656		117	7	010??7+00
3156S	23 46 40	76 39.3	28	2.7		-.7(.4)					SVS 5792		119	15	0?0?22?00
5787S	23 47 37	60 48.6	31	2.3	1.6(.3)				60425		DO 43690		116	-1	0?0100?00
5788S	23 48 18	48 43.9	25	3.6	1.9(.5)				50480		DO 43717		113	-13	0?0?00100
3161S	23 48 45	26 53.4	12	2.1		-1.2(.5)					GR PEG	R	107	-34	020200002
3162S	23 48 51	5 25.8	15	3.2	1.6(.3)								97	-54	000100?00
5789S	23 48 59	29 26.9	18	2.7	1.8(.4)				30520		DU PEG	R	108	-31	0?0100000
5790S	23 50 11	-16 43.5	9	3.7	1.4(.4)				-20643				68	-73	000001?00
3169S	23 50 34	-1 38.1	15	3.3	1.1(.3)								92	-61	000100?00
5791S	23 51 10	53 19.1	25	2.0	1.7(.3)				50481		DO 43773		114	-8	0?0100?00
5792S	23 51 20	0 17.4	15	3.3	1.5(.4)				534		DO 8097		94	-59	000100?00
5793S	23 52 6	-31 .9	8	3.7	1.8(.4)				-30470		SVS 5805		13	-77	000001?00
5794S	23 53 31	-22 21.9	8	3.7	2.0(.4)				-20644		GC 33196		52	-76	000001?00
5795S	23 53 36	-22 13.2	15	3.8	1.5(.4)				-20644		GC 33196		52	-76	000007100
5796S	23 54 9	26 4.6	11	2.5		-2.0(.4)							108	-35	020+00002
3184S	23 55 1	60 44.3	22	1.7	1 6(.3)				60430		GC 33217		116	-1	010100?00
5797S	23 55 8	49 39.9	22	1.9	1 3(.3)								114	-?2	0+0100?00
5798S	23 57 38	19 57.1	17	3.0	2.0(.4)				20558		EP PEG.EO		107	-41	0?01C0009
3195S	23 57 41	14 44.5	16	3.1	1.6(.3)								105	-46	0001C0000
5799S	23 58 26	38 12.7	20	2.5	1.4(.4)				40548		DO 22623		112	-23	0?0100000
5800S	23 59 3	-51 40.3	26	2.8		-1.8(.4)							321	-64	000000020
3198S	23 59 43	-21 17.1	15	3.9	1.8(.4)								59	-77	000007100

Appendix B

Multiply Observed Sources

PRECEDING PAGE BLANK-NOT FILMED

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2S	1.8(.4)				335
2S	1.4(.5)				423
3S		-1.0(.5)	-3.4(.5)		132
3S		-.8(.4)			335
4S	1.7(.4)		*		132
4S	1.8(.4)				335
4003S			-3.1(.5)		132
4003S	1.7(.4)				335
4006S	.8(.4)				657
4006S				-6.3(.6)	1295
4007S	1.6(.4)				548
4007S	1.5(.4)				657
4007S		-2.0(.4)			1295
4015S	*		3.1(.5)		423
4015S	1.9(.5)				657
35S	1.7(.4)		*		132
35S	1.9(.5)				335
35S	*		-2.8(.5)		423
35S	1.4(.4)				657
4018S		-.7(.5)	*		132
4018S	1.6(.4)				423
39S		-.8(.5)	*		132
39S		.2(.4)			335
58S	1.5(.5)				548
58S	1.7(.5)				657
63S		-1.0(.4)	*		132
63S		-.5(.4)			335
69S		-1.7(.4)			548
69S		-1.4(.4)			657
74S	1.7(.4)				132
74S	1.7(.4)				335
79S	1.5(.4)		*		132
79S	1.4(.4)				423
86S		-1.0(.5)	*		132
86S	1.6(.4)				335
86S	1.0(.4)				548
87S	1.5(.4)				335
87S	1.5(.4)				657

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
91S	1.1(.4)				254
91S	*		-4.2(.5)		423
91S	.9(.3)	.2(.7)			548
95S	1.4(.4)				254
95S	1.5(.4)				335
97S		-1.0(.5)	*		132
97S		-1.4(.4)			423
112S		-.7(.4)			132
112S	1.5(.4)				335
112S	1.5(.4)				657
114S		-.7(.5)	*		132
114S	1.6(.3)				335
119S	1.7(.4)		*		132
119S	2.0(.4)				335
125S	1.6(.4)		*		132
125S	1.5(.4)				335
130S		-.7(.4)			548
130S		-.5(.4)			657
131S			-3.4(.4)		335
131S	*		-3.0(.5)		548
146S	1.5(.4)		*		132
146S	1.3(.4)				657
4075S	1.9(.5)				335
4075S	1.4(.5)				657
151S	1.5(.4)				335
151S	.9(.4)				548
166S	*	-1.7(.4)			254
166S	1.4(.3)				335
176S	*	-1.8(.4)			548
176S		-1.8(.4)			657
185S		-1.4(.4)	*		132
185S	*	<-1.5(.4)			548
4093S		-1.1(.5)	*		132
4093S		-.4(.4)			254
202S	1.5(.4)		*		132
202S	1.6(.4)				335
209S	1.7(.4)				548
209S	1.3(.4)				657

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
213S	1.2(.4)				254
213S	1.5(.4)				335
213S		-2.0(.4)			423
221S			-3.2(.5)		254
221S	1.8(.5)				335
221S	1.4(.4)				423
4113S	1.3(.4)				254
4113S			-2.6(.5)		335
4120S	2.1(.4)				335
4120S			-3.7(.6)		1302
248S	.9(.3)	-.7(.4)			335
248S	1.1(.3)				548
4142S	1.9(.4)				657
4142S				-6.7(.6)	1295
258S		-1.5(.5)	•		132
258S	1.8(.3)	-.3(.4)			254
4148S	1.5(.4)				254
4148S		-.1(.4)			335
270S	1.3(.4)				132
270S	2.1(.5)				254
282S	1.8(.5)				254
282S	1.7(.4)				335
282S	1.6(.4)				548
288S	2.0(.5)				335
288S	1.8(.4)				657
4161S	•		-3.6(.5)		548
4161S	1.9(.5)				657
298S	1.7(.4)	-1.1(.5)			132
298S	1.5(.4)				254
4168S		-.5(.4)			335
4168S	1.2(.4)				548
4174S		-.8(.4)			335
4174S		-.3(.5)			423
4176S	•		-3.4(.5)		254
4176S	1.8(.4)				335
312S		-.5(.4)			335
312S		-1.1(.4)			548
4...	1.5(.4)				254
318S	1.3(.4)				548

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
4185S	1.7(.4)		•		132
4185S	1.2(.5)				657
4197S	1.7(.4)				132
4197S		-.4(.5)			423
4197S			-4.3(.6)		657
330S		-1.1(.4)			335
330S	•	-1.7(.4)			657
343S		-.6(.4)	-3.0(.5)		548
343S	•		-3.9(.5)		657
344S			-2.5(.5)		254
344S			-2.5(.6)		335
346S	1.5(.4)				335
346S	1.7(.4)				548
346S			-4.6(.5)		657
4203S	2.1(.4)				335
4203S	1.5(.4)				423
4211S			-3.6(.4)		548
4211S	1.3(.4)				657
4213S		-2.1(.4)			132
4213S		-.6(.5)	-3.4(.5)		657
358S		-.8(.4)			335
358S	•	-1.6(.4)			548
368S		-1.1(.5)			132
368S	1.5(.3)				254
368S	1.8(.6)	-.7(.5)			657
4218S	2.0(.4)				335
4218S	1.6(.4)				657
370S	1.7(.4)				335
370S	1.3(.4)				548
4222S	1.3(.3)	-1.6(.3)			335
4222S		-2.9(.5)			1302
374S		-.8(.4)			335
374S		-1.2(.4)	-3.2(.5)		548
4234S	•		-3.1(.4)		254
4234S	1.8(.4)				335
4234S	•	-1.3(.5)			548
4235S			-4.1(.5)		657
4235S			-3.1(.6)		1302

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.	GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+						2441000+
415S		-.5(.4)			335	532S	1.7(.4)				335
415S	.8(.4)				657	532S	1.7(.4)				657
421S	*		-3.6(.4)		254	533S	1.2(.3)		-3.9(.5)		254
421S			-2.2(.5)		335	533S			-4.2(.4)		335
423S		-1.6(.4)			335	4311S	1.9(.4)				254
423S	1.0(.3)				548	4311S	1.8(.4)		-2.7(.5)		335
4243S	1.5(.5)				254	539S			-3.6(.4)		254
4243S	1.6(.4)				548	539S		-1.7(.4)			335
						539S			-4.3(.5)		657
445S	1.5(.4)				335						
445S	1.4(.4)				657	4328S	1.8(.5)				335
						4328S			-3.3(.4)		548
4256S	*	-.1(.4)			254						
4256S	1.0(.3)				335	4329S	1.7(.4)				657
						4329S				-8.1(.8)	1302
4258S	*	-.3(.4)			254						
4258S	1.5(.4)				548	557S			-3.5(.5)		548
						557S		-.7(.4)			657
460S	1.5(.4)				254						
460S	1.5(.5)				657	4331S		-.7(.4)			548
						4331S	1.7(.5)				657
468S			-3.4(.5)		254						
468S	*		-4.4(.4)		548	575S			-2.6(.4)		335
						575S			-3.0(.5)		423
469S	1.4(.3)				254						
469S			-3.4(.4		548	578S		-1.5(.4)			254
						578S	1.6(.4)				335
470S	1.1(.4)				548	578S	1.2(.5)				657
470S	2.2(.6)		-4.0(.5)		657						
						580S	2.0(.4)				335
473S			-3.2(.5)		132	580S	.9(.4)				657
473S	1.8(.5)				254						
473S			-3.5(.6)		657	584S	1.4(.4)				548
						584S	.9(.4)				657
4269S	1.6(.3)				254						
4269S			-3.4(.6)		1302	596S	1.7(.4)	-.6(.5)			254
						596S	*	-1.4(.4)			657
480S	1.9(.4)				335						
430S			-3.6(.4)		548	611S	*	-1.5(.4)	-3.2(.5)		423
						611S			-4.1(.5)		657
4272S			-2.4(.6)		335						
4272S			-3.0(.5)		548	4370S	1.9(.3)				335
4272S			-3.7(.6)		657	4370S		-1.9(.4)			548
502S			-3.5(.5)		548	630S		-1.5(.4)			548
502S			-4.0(.5)		657	630S		-.8(.4)	-5.0(.5)		657
504S	1.4(.4)				254	4376S	1.2(.4)				254
504S	1.6(.5)				657	4376S				-6.6(.8)	1302
4292S			-4.1(.5)		254	4384S	1.1(.4)				548
4292S			-3.7(.6)		1302	4384S	*		-3.8(.6)		657

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.	GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+						2441000+
655S	1.2(.4)				548	808S	1.5(.4)				335
655S	1.6(.4)				657	808S	1.5(.4)				657
668S	1.8(.4)				548	810S			-3.0(.4)		254
668S	1.4(.4)				657	810S	1.0(.4)				657
670S	1.2(.4)				548	814S		-1.6(.3)	-3.2(.4)		335
670S	1.0(.5)				657	814S		-1.7(.5)			657
4388S	*		-3.2(.5)		335	831S		.2(.5)			254
4380S	1.6(.5)				657	931S	1.4(.4)	-.5(.5)			423
						831S	1.6(.5)				657
6.4S	2.2(.4)				548						
684S	1.8(.5)				657	833S	1.9(.4)				335
						833S	1.5(.4)				657
696S	1.7(.4)	-.9(.4)	-2.7(.5)		423						
696S			-3.8(.4)		548	4457S	1.8(.4)				335
						4457S		-1.3(.4)			657
4394S	2.0(.4)				335						
4394S	2.0(.6)		-3.1(.6)		657	869S	1.5(.4)				254
						869S	1.6(.4)				548
726S			-2.9(.4)		254						
726S	1.4(.3)				335	890S			-3.7(.4)		335
						890S			-4.9(.5)		657
736S	1.6(.4)				335						
736S	1.5(.5)				657	911S			-3.4(.4)		132
						911S			-3.8(.5)		657
742S	1.6(.4)				335						
742S	1.6(.5)				657	926S	1.8(.3)				423
						926S	1.5(.4)				657
4412S	*		-3.1(.5)		548						
4412S	*		-4.0(.5)		657	930S	2.2(.8)				335
						930S	1.4(.4)				657
747S	2.1(.5)				548						
747S	1.5(.5)				657	942S			-2.7(.5)		335
						942S			-3.6(.5)		657
4418S			-3.9(.5)		254						
4418S			-3.7(.6)		1202	948S	1.7(.4)				335
						948S	1.2(.4)				657
4419S		-.1(.5)			335						
4419S		-.7(.4)			657	951S		-.1(.4)			335
						951S	1.9(.5)	.9(.4)			657
765S	1.7(.3)				335						
765S	*	-1.6(.4)			657	953S	1.9(.4)				423
						953S		-2.1(.4)			548
772S		-1.0(.4)			335	953S	*	-1.2(.4)			657
772S		-.5(.5)			657						
						960S	*		-3.8(.5)		254
774S	1.9(.4)				548	960S	1.5(.4)				335
774S	1.8(.4)				657	960S	1.1(.4)				423
4426S		-1.1(.5)	*		132	4511S	1.4(.5)				423
4426S	2.0(.4)				423	4511S	1.9(.5)				657
4434S	2.0(.4)				335	972S	1.2(.4)				254
4434S		-.0(.5)			548	972S	1.4(.4)				335

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
973S	1.2(.3)				254
973S	1.3(.3)				423
4512S	1.2(.4)				254
4512S		-1.7(.4)			335
987S	1.8(.4)				335
937S	1.7(.4)				657
4519S		-.6(.5)			335
4519S		-1.8(.5)			657
992S		-.5(.4)			335
992S		-1.8(.5)			657
4558S		-2.3(.4)			1295
4558S			-3.2(.6)		1302
1068S	1.7(.4)				335
1068S	1.3(.4)				423
1068S	*		-3.0(.7)		657
1099S	1.5(.4)				335
1099S	1.6(.4)				657
1097S	1.7(.4)				335
1097S	1.7(.4)				423
1100S	1.6(.4)				335
1100S	1.0(.4)				548
1121S	1.5(.4)				335
1121S	1.7(.5)				657
1126S	1.6(.4)				335
1126S	*	-1.9(.5)			548
1126S	2.2(.5)				657
1142S	2.0(.5)				335
1142S	1.6(.4)				548
1202S	1.5(.4)				254
1202S	1.9(.5)				335
1219S		-1.0(.4)			254
1219S	*	-2.0(.4)			657
1222S			-2.8(.5)		423
1222S	*		-4.1(.5)		657
1229S	1.7(.4)				335
1229S	1.5(.5)				473
1242S		-.8(.4)	*		132
1242S	2.0(.4)				335
1242S		-.4(.5)			548

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
1246S	1.1(.3)				254
1246S	2.0(.4)				335
4689S		-1.0(.4)			335
4689S		-2.1(.4)			423
1252S	*	-.7(.4)			254
1252S		-.8(.4)			335
1256S			-3.1(.5)		335
1255S	*		-4.1(.4)		423
4697S		-.7(.4)			335
4697S	1.3(.4)				657
1272S	1.4(.3)		-2.3(.6)		254
1272S		-.9(.4)			423
1277S	1.3(.4)				254
1277S	1.2(.4)				335
1286S		-.8(.5)	*		132
1296S	1.2(.4)				254
1286S	1.2(.4)				657
1294S	1.4(.3)				335
1294S		-.9(.4)	-3.4(.5)		657
4723S			-2.3(.5)		254
4723S	1.6(.3)				423
4726S			-2.9(.5)		254
4726S	1.3(.4)				423
4730S			-3.2(.4)		254
4730S	*		-3.4(.5)		423
1331S		-.3(.4)	-3.2(.5)		254
1331S		-1.1(.4)			423
1337S			-2.2(.5)		254
1337S			-2.9(.4)		423
1345S		-1.1(.4)			335
1345S	*	-.2(.4)			423
4747S	2.0(.5)				254
4747S	1.3(.4)				423
4749S	1.9(.6)				254
4749S	1.5(.4)				423
1374S	1.7(.4)	-.3(.5)			45
1374S	*	-1.4(.4)			254

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.	GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+						2441000+
1375S	•	-.8(.4)			254	4845S		-1.6(.4)			1295
1375S		-.2(.4)			423	4845S			-3.2(.6)		1302
1377S		-.8(.4)			254	1561S	1.8(.4)				45
1377S	•	-.4(.4)			423	1561S	1.6(.4)				132
4761S	•	-2.0(.4)			45	4869S	1.2(.3)				423
4761S	1.8(.3)				335	4869S		-1.3(.5)			1295
4768S		-.8(.5)	•		132	4870S		-1.4(.5)			45
4766S		-.4(.5)			423	4870S	1.3(.4)		•		132
1401S	1.6(.5)				254	1621S	1.3(.4)				45
1401S	1.5(.4)				335	1621S	1.4(.4)		-2.9(.5)		132
1402S		-.3(.5)			45	4900S	1.8(.4)				45
1402S	1.0(.3)				254	4900S		-.5(.4)			423
4782S	1.5(.5)				45	4901S				-6.3(.6)	1295
4782S	•	-1.4(.5)			254	4901S				-6.2(.7)	1302
1418S		-1.2(.4)	-3.7(.4)		335	1638S			-2.8(.4)		45
1418S	1.2(.4)	-1.9(.4)			548	1638S	.0(.3)				423
1429S		-.3(.4)			45	1639S	1.4(.4)				45
1429S		-.7(.4)	-2.7(.5)		335	1639S	1.3(.4)				423
1435S		-.2(.4)	-2.6(.5)		45	4908S				-6.1(.7)	1295
1435S		-1.1(.5)			254	4908S				-6.1(.8)	1302
1447S	•	-2.0(.4)			335	4913S	1.8(.4)				45
1447S		-.6(.4)			423	4913S	•		-2.8(.4)		423
						4913S		-1.6(.4)			1295
1451S			-3.2(.5)		45	1665S		-1.2(.3)	-3.0(5)		45
1451S			-3.4(.4)		132	1665S	1.4(.4)				132
1456S	•	-1.6(.4)	-2.8(.5)		45	4926S			-3.2(.3)		45
1456S	2.3(.6)	-.7(.4)			423	4926S			-2.6(.5)		1295
1459S		-.7(.4)			423	4930S	1.7(.4)				45
1459S		-1.2(.5)	-3.2(.6)		548	4930S			-3.3(.5)		1295
1506S	1.8(.4)				45	4937S	1.0(.3)				45
1506S	1.2(.4)		•		132	4937S		-1.6(.5)			1295
1513S	1.3(.4)				45	4939S			-2.9(.5)		423
1513S	1.8(.4)				423	4939S		-1.1(.5)			1295
4830S	1.1(.3)				45	1705S	1.1(.4)		•		132
4830S	•	-.7(.4)			423	1705S	1.8(.4)		-3.0(.5)		423
4833S			-4.0(.4)		423	4949S		-.8(.4)			423
4833S			-3.9(.5)		1295	4949S		-1.4(.4)			1295
4834S				-6.2(.6)	1295						
1[illegible]			-4.5(.6)		1302						

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
1721S	*	-2.2(.4)			45
1721S		-1.0(.4)			423
4959S			-4.4(.4)		45
4959S			-3.8(.6)		1302
4970S	1.6(.4)	-.7(.5)			423
4970S		-1.5(.5)	-2.9(.5)		1295
1747S	1.8(.4)				45
1747S	1.7(.4)				423
1749S	1.9(.4)	-.4(.5)			132
1749S	1.6(.4)				423
1759S	1.5(.3)				45
1759S	1.5(.4)		-3.7(.4)		423
4993S		-.7(.5)	*		132
4993S		-1.4(.5)			1295
4996S	1.5(.4)				45
4996S				-6.7(.8)	1302
1774S	1.3(.4)		*		132
1774S	1.6(.4)				423
1778S		-.7(.4)			45
1778S			-3.5(.4)		423
5015S		-.5(.5)	-3.1(.5)		45
5015S			-3.8(.6)		1302
5018S	1.1(.4)		*		132
5018S	*		-3.9(.5)		423
1810S	2.0(.5)				45
1810S	1.5(.4)				132
1810S	1.8(.5)				423
1813S	1.6(.4)		-3.3(.4)		45
1813S			-3.3(.5)		132
1820S	1.4(.4)	-.9(.4)	*		132
1820S		-.4(.5)			423
5029S	1.5(.4)		*		132
5029S	1.4(.4)				423
5029S		-1.7(.5)			1295
1840S	1.6(.4)				45
1840S	1.9(.4)				423
5044S	*	-.1(.4)			423
5044S		-1.5(.5)			1295

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
5060S	*		-2.8(.6)		45
5060S	1.9(.4)				423
5060S		-2.1(.5)	-3.4(.6)		1302
1881S	1.7(.4)				45
1881S	1.6(.4)				132
1882S	1.5(.4)				45
1882S	1.4(.4)		*		132
5065S	1.5(.4)				45
5065S				-6.6(.7)	1302
1907S		-.6(.4)	*		132
1907S		-1.0(.5)			423
5081S	1.7(.5)				45
5081S	1.9(.4)		*		132
5092S		-1.3(.4)			1295
5092S		-2.0(.6)			1302
1939S	1.5(.4)				45
1939S	1.8(.4)				132
5095S	1.6(.4)				45
5095S	1.9(.4)				132
1946S	1.3(.5)				45
1946S	1.7(.4)		*		132
5107S	1.7(.4)				45
5107S		-.6(.5)	*		132
5110S				-6.1(.7)	1295
5110S			-3.5(.6)		1302
1979S	1.7(.4)				45
1979S	1.4(.4)				132
1982S	1.4(.5)				45
1982S	1.1(.3)		*		132
1990S	1.4(.5)				45
1990S	1.2(.4)		*		132
5146S			-3.6(.4)		45
5146S		-.7(.6)	*		132
5147S	2.0(.4)				45
5147S	1.8(.4)		*		132
5149S	*	-.4(.4)			423
5149S		-1.7(.5)			1295

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
5152S	•	-1.6(.4)	-3.0(.5)		548
5152S		-1.4(.4)			1295
2021S		-1.1(.4)			45
2021S		-.9(.5)			423
2021S			-3.8(.7)		1302
2029S	1.4(.4)				45
2029S	1.3(.4)		•		132
5163S	1.2(.4)		•		132
5163S	•	-1.5(.5)			335
5169S	1.3(.4)				423
5169S		-1.5(.4)	-3.1(.5)		1295
5176S	1.6(.4)		-2.8(.5)		45
5176S		-1.2(.4)	•		132
5177S	2.0(.4)				423
5177S			-2.4(.5)		1295
2049S		-.4(.5)			45
2049S	•	-1.5(.4)	•		132
5180S	1.6(.4)				423
5180S			-3.1(.5)		1295
5180S		-2.3(.6)			1302
5188S		-.2(.6)			45
5188S	1.3(.4)		•		132
2055S	1.4(.4)				45
2055S	1.5(.4)				132
5191S		-.8(.4)			45
5191S	1.5(.4)				132
2073S	1.5(.4)	-.8(.4)			45
2073S	1.5(.5)		•		132
5200S		-1.4(.4)			45
5200S		-.7(.5)	•		132
5201S		-.3(.4)			45
5201S	1.4(.4)		•		132
5204S	•	-1.1(.4)			45
5204S	1.7(.4)				132
5205S		-1.0(.4)			45
5205S	1.4(.4)				132
5206S	•		-3.2(.5)		45
5206S			-3.0(.5)		1293
2120S		-.8(.4)	-2.8(.4)		45
2120S		-.9(.5)			132
2125S	1.2(.4)				45
2125S	1.4(.4)				132
5226S			-2.3(.5)		45
5226S		-.5(.4)	•		132
2140S			-3.1(.4)		45
2140S			-2.8(.5)		548
2141S	1.7(.4)				45
2141S	1.3(.4)		•		132
2144S	1.6(.4)				423
2144S	1.7(.4)				548
52 5S		-1.0(.4)			45
5255S		-.5(.5)	•		132
5248S	1.7(.4)				45
5248S	•		-3.5(.5)		548
5248S		-1.6(.5)			1295
5253S	1.5(.4)				423
5253S		-2.3(.5)	-2.8(.6)		1302
5258S		-.9(.4)			45
5258S	•	-1.1(.6)	•		132
5262S		-.4(.4)			45
5262S		-.9(.4)			548
2209S	1.6(.4)				45
2209S	1.6(.4)		•		132
5269S		-.3(.4)			45
5269S			-2.7(.5)		1295
2212S	1.1(.4)				45
2212S	1.4(.5)				548
5273S	1.4(.4)				45
5273S		-1.0(.4)			548
2226S		-1.3(.5)			45
2226S		-1.2(.4)	•		132
5275S		-.3(.5)			45
5275S		-1.1(.4)			132
2231S	1.5(.4)				45
2231S	1.6(.4)				548

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2237S	1.4(.4)				45
2237S	1.5(.4)		*		132
5287S	1.1(.4)				45
5287S		-1.2(.5)			1295
5288S	1.6(.4)				45
5288S	*	-1.6(.5)	*		132
5296S			-2.6(.5)		45
5296S	1.2(.3)	-.7(.4)	*		132
2250S	1.4(.4)				45
2250S	1.9(.4)		*		132
5298S	.8(.3)				45
5298S	*	-1.5(.6)			548
5299S	2.2(.4)				45
5290S			-3.7(.4)		548
2257S		-.8(.4)			45
2257S		-.7(.5)	*		132
2262S	1.6(.4)				45
2262S	2.2(.4)		*		132
2263S	1.6(.4)				45
2263S	1.8(.4)				548
5308S	1.4(.4)				45
5306S		-1.0(.5)			548
5309S		-.8(.5)			45
5309S			-2.9(.5)		423
5309S			-3.7(.5)		548
2269S	1.4(.4)				45
2269S	1.4(.4)				548
5315S		-1.6(.4)	-3.1(.5)		548
5315S			-2.8(.5)		1295
5315S				-6.4(.7)	1302
5316S		-.5(.4)			45
5316S	1.3(.3)		*		132
5317S	1.3(.4)				45
5317S			-2.2(.6)		1295
2273S	1.9(.4)				423
2273S	1.7(.4)				548
5322S	1.5(.4)				45
5322S			-2.8(.4)		548
5322S		-2.8(.5)			1302

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2281S	1.8(.4)				45
2281S	1.6(.4)		*		132
2294S	1.5(.4)				45
2294S	1.7(.4)				548
2307S			-2.5(.5)		45
2307S	*		-3.0(.5)		548
5332S	*	-1.4(.4)			45
5332S			-3.3(.4)		423
5332S	1.3(.4)				548
5332S		-1.3(.5)			1295
5337S			-3.2(.5)		423
5337S			-3.0(.5)		1295
5338S	*		-2.2(.6)		45
5338S	1.2(.3)				548
5339S	1.1(.4)				45
5339S				-6.4(.6)	1295
2322S	1.7(.4)				45
2322S	1.8(.4)				548
2322S			-3.1(.6)		1302
2337S		-1.1(.4)			45
2337S	*	-1.4(.5)			548
2337S		-1.3(.5)			1295
2339S	1.5(.4)				45
2339S	1.5(.4)				548
2342S	1.5(.3)	-.3(.4)			45
2342S	1.3(.4)	-.5(.4)			548
5350S	1.4(.4)				45
5350S		-1.4(.5)			1295
5356S	1.2(.4)				45
5356S		-1.3(.4)			548
2355S			-2.5(.5)		45
2355S			-3.4(.5)		423
5358S			-3.1(.5)		548
5358S			-3.0(.6)		1302
2364S	1.8(.4)				45
2364S	1.5(.4)				548
5362S	1.7(.4)				45
5362S		-.6(.6)			548

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
5363S		-1.6(.4)			45
5363S	2.1(.4)				132
2372S	1.6(.4)				45
2372S	1.7(.4)				423
2372S	1.7(.4)				548
5368S		-.9(.5)			423
5368S		-.5(.6)			1295
2377S		-.2(.4)			45
2377S	•	-.9(.5)			548
5374S		-.8(.5)			45
5374S		-1.6(.4)	-3.0(.5)		1295
2385S		.1(.5)			45
2385S		-.8(.4)			423
2386S	1.5(.4)				45
2386S	2.1(.5)		-2.8(.6)		423
2387S	1.9(.5)				45
2387S	1.6(.4)				548
5375S			-2.7(.5)		423
5375S	1.6(.5)				548
5393S			-2.9(.5)		45
5383S		-1.2(.4)			548
5393S				-2.0(.9)	1295
5393S	•		-3.9(.5)		548
5393S			-3.3(.5)	-6.3(.6)	1295
5398S	1.5(.4)				45
5398S			-3.0(.6)		1302
2419S		-.8(.4)			423
2419S		-1.1(.4)			657
5407S		-.8(.4)			45
5407S			-2.7(.5)		1295
5410S	1.8(.4)		-2.6(.5)		45
5410S			-2.4(.6)		1295
5411S			-2.7(.5)		45
5411S				-6.4(.6)	1295
5413S	1.3(.4)				548
5413S		-1.5(.4)		-5.3(.8)	1295
5416S	•	-1.2(.4)			423
5416S	1.5(.4)				548

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
2451S	1.7(.5)				45
2451S	1.3(.3)				548
5426S		-.8(.4)			45
5426S	1.2(.4)				548
5426S		-1.5(.5)			1295
5438S			-2.9(.4)		45
5438S	•	-1.9(.4)			548
5438S		-1.8(.5)			1295
2473S	1.8(.5)				45
2473S	1.5(.4)				548
5443S			-2.8(.4)		45
5443S	1.2(.4)				548
5445S			-2.8(.5)		45
5445S		-.5(.4)			548
5445S			-2.8(.5)		1295
5453S			-2.7(.5)		45
5453S			-2.8(.5)		1295
5454S	1.8(.4)				45
5454S		-1.3(.5)			1295
5456S	1.3(.4)				423
5456S	•	-1.2(.4)			548
2499S	1.8(.5)				45
2499S	1.8(.4)				548
5469S		-1.4(.4)			1295
5469S		-2.2(.5)			1302
5475S		-.9(.5)			45
5475S		-.8(.4)			423
2518S		-1.7(.3)	•		132
2518S			-3.5(.4)		548
2525S		-.3(.4)			45
2525S		-.9(.4)			548
5484S		-.9(.4)	-2.1(.5)		45
5484S		.2(.7)	-1.9(.6)		1295
2539S	1.7(.4)				45
2539S	1.7(.4)				548
2543S	1.4(.4)				548
2543S	1.8(.4)				657
2545S		-.8(.4)			45
2545S	1.7(.4)	-.1(.4)			548

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.	GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+						2441000+
5493S	*	-1.5(.5)			548	5548S		-1.0(.4)			45
5493S		-1.5(.5)			1295	5548S	*	-1.1(.6)			657
2548S	1.9(.4)				45	5552S				-6.3(.6)	1295
2548S	1.7(.4)				548	5552S			-3.7(.6)	-6.8(.7)	1302
5501S		-1.0(.4)			45	5554S	1.3(.5)				657
5501S		-1.7(.5)	-3.5(.5)		1295	5554S			-2.5(.5)		1295
5507S			-2.9(.6)		45	5566S	1.4(.4)				548
5507S	*	-1.5(.4)			657	5566S	1.5(.5)				657
5508S	1.2(.4)		*		132	2693S		-.9(.4)			45
5508S	*		-3.9(.5)		548	2693S	1.5(.4)				423
						2693S	1.4(.4)				548
5516S	1.7(.4)				548						
5516S			-2.6(.5)		1295	2705S	1.5(.4)		*		132
						2705S	1.5(.4)				548
5517S		-.8(.5)			45						
5517S	*		-.4(.5)		423	5580S		-1.5(.4)	-2.5(.5)		335
5517S			-1.0(.5)		657	5580S			-3.0(.4)		423
5519S			-3.2(.5)		45	2724S		-1.0(.4)			335
5519S		-.4(.4)			548	2724S		-.9(.5)			548
5519S		-.2(.6)			657	2724S	*	-1.2(.4)			657
5523S	1.7(.4)				45	5586S		-.8(.4)			548
5523S	1.7(.5)		-4.0(.5)		657	5586S	*		-3.5(.6)		657
						5586S			-2.6(.5)		1295
5524S			-3.2(.4)		423						
5524S	2.3(.5)				657	5590S	1.5(.4)				45
						5590S			-3.5(.4)		548
5525S	1.7(.4)				657						
5525S			-3.1(.6)		1302	5597S		-1.6(.4)	*		132
						5597S		-1.6(.4)			1295
2628S	*	-1.9(.4)			45						
2628S		-1.0(.4)			657	5599S		-.5(.4)			548
						5599S		-.9(.4)			657
2634S		-.8(.4)			45						
2634S		-.3(.4)			548	5603S	1.4(.4)	-.7(.4)			657
						5603S			-3.1(.5)		1295
5534S	1.7(.4)				45						
5534S	1.2(.4)				657	5615S	1.5(.4)				657
						5615S			-3.7(.6)		1302
5535S		-.8(.5)			548						
5535S		-1.3(.4)			1295	5617S	1.0(.4)				657
						5617S			-2.6(.5)		1295
5538S		-.9(.5)			45						
5538S	*	-1.9(.5)			423	2774S	1.7(.4)				548
5538S			-2.4(.5)		548	2774S	1.5(.4)				657
2642S	1.9(.4)				45	5623S		-.3(.4)			548
2642S	1.2(.4)				548	5623S	1.6(.5)		-3.2(.6)		657
2656S			-2.4(.4)		45	2778S			-3.5(.4)		335
2656S			-4.5(.5)		657	2778S	*		-4.1(.4)		423

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
5627S		-1.3(.4)			423
5627S	1.6(.4)				657
5629S			-3.9(.4)		548
5629S			-3.1(.5)		1295
2797S	•		-3.7(.4)		335
2797S	1.7(.5)				548
2797S	1.6(.4)				657
2801S	1.4(.4)		•		132
2801S	1.4(.4)				657
2809S	1.6(.4)				335
2809S		-1.9(.4)	-3.4(.5)		423
2809S		-.6(.4)			548
2809S	1.7(.5)				657
5644S	1.8(.4)	•			45
5644S			-2.7(.5)		423
5644S		-.6(.4)			548
2814S	1.6(.4)		•		132
2814S	2.0(.4)		-2.8(.5)		335
2829S	1.2(.4)				45
2829S	1.6(.4)		•		132
2829S			-2.9(.5)		423
5658S	1.8(.4)				132
5658S		-.3(.5)			548
2834S	1.6(.4)				335
2834S	1.2(.4)				657
2841S	1.7(.4)				335
2841S	1.0(.4)				548
2874S	1.9(.4)		•		132
2874S	•		-3.9(.4)		548
2878S	1.9(.4)				335
2878S	•	-.7(.4)			423
2878S		-.4(.4)			548
2878S	1.9(.5)				657
2897S	1.6(.4)	-1.7(.4)			335
2897S		-.3(.4)			657
5685S	1.6(.4)				335
5685S	2.3(.6)		-3.6(.5)		657
2902S	1.5(.4)				548
2902S	1.9(.4)				657

GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+
5689S	1.7(.4)				657
5689S			-3.1(.6)		1302
5692S	•		-4.0(.5)		657
5692S			-2.9(.6)		1302
2920S	1.2(.4)		•		132
2920S	1.2(.4)				548
5698S		-2.5(.4)			122
5698S	1.6(.4)				657
2927S			-3.3(.4)		335
2927S			-3.0(.4)		423
2937S	1.6(.4)				335
2937S	1.4(.5)				657
5709S	1.7(.4)				335
5709S		-2.8(.6)			1302
2950S	1.4(.4)				335
2950S	1.8(.4)				657
5713S	1.2(.4)				548
5713S	•		-4.3(.6)		657
2979S	1.6(.4)				335
2979S	1.8(.5)				657
2980S	1.9(.4)		•		132
2980S	1.7(.4)				335
2996S	1.3(.4)		•		132
2996S	1.4(.3)	-.8(.5)			335
3002S		-1.6(.4)			335
3002S	1.1(.4)	-.7(.4)			657
3003S	1.5(.4)				335
3003S	1.8(.5)				657
3014S	1.5(.4)				335
3014S	2.2(.5)				657
3021S		-1.3(.4)	-2.7(.4)		548
3021S			-4.6(.5)		657
3025S	1.4(.4)				548
3025S	1.3(.5)				657
3027S	1.7(.4)				335
3027S	1.2(.5)				657

MULTIPLY OBSERVED SOURCES

GL	M(4)	M(11)	M(20)	M(27)	J.D.	GL	M(4)	M(11)	M(20)	M(27)	J.D.
					2441000+						2441000+
3032S	1.7(.4)				335	3161S	*	-1.6(.4)	*		132
3032S		-.9(.4)	-3 1(.4)		423	3161S		-.4(.5)			335
3032S	*	-1.9(.6)			548						
						5796S		-1.7(.4)			132
3035S	1.5(.4)				335	5796S		-2.2(.5)			1302
3035S	1.2(.4)				657						
						3184S	1.5(.4)		*		132
3037S	1.4(.4)		*		132	3184S	1.6(.4)				335
3037S	1.5(.4)				657						
3060S	1.9(.4)				548						
3060S	1.6(.4)				657						
5748S	1.8(.5)				657						
5748S			-3.8(.6)		1302						
3063S			-3.3(.5)		335						
3063S	*		-4.2(.5)		657						
3070S			-3.3(.5)		335						
3070S			-3.7(.5)		657						
5752S	1.4(.4)				335						
5752S		-1.1(.5)			657						
3077S	1.7(.4)				132						
3077S	1.4(.4)				657						
3090S	1.8(.4)		*		132						
3090S	1.5(.5)				657						
5762S	1.8(.5)				335						
5762S	1.7(.4)				657						
3092S	1.3(.4)				548						
3092S	1.3(.5)	-1.1(.4)			657						
3092S		-.9(.7)			1295						
3103S	1.4(.4)				335						
3103S	1.7(.4)				657						
3117S	1.8(.5)				132						
3117S	1.7(.4)				335						
3132S	1.4(.4)				132						
3132S	1.4(.5)				657						
3142S		-.5(.5)	*		132						
3142S		-.7(.4)			657						
5786S	1.9(.4)		*		132						
5786S		-1.4(.4)			423						
3156S		-.9(.4)			423						
3156S	*	-.4(.5)			548						

Appendix C

Remarks

REMARKS

4008$	OB+504
26$	OB+313
74$	BRIGHT NEB
4052$	VR023.00.05,4C+23.03,PKS0044+23
178$	OC+118
4168$	MSH 02-204
4220$	LME067,DA082,4C-00.13,GC0240-00,PKS0240-00,PKS0240-00,NRAO112.00-067,MSH 02-014
4238$	B2 0257+29A
424$	B2.3 0300+38
4255$	MC1 0308-219
484$	B2 0319+29
4281$	OE-148
4344$	4C+57.10,OF+538
4345$	OF+143
4352$	MC1 0429-208
4386$	MC1 0450-221
4395$	OG+311
701$	OG-113
783$	4C-05.21
4428$	NGC 1990
4443$	B2.3 0541+37
4485$	OH-127
951$	IC 0446
4506$	OH+351
4519$	DA218
1048$	4C+08.24
4553$	PKS0701-05
4582$	MSH 07-105
1132$	OI-046
4611$	B2.2 0731+28A
4612$	PRF358
4613$	DCC234.6+00.8,PKS0733-18
4630$	OI+571.1
4631$	LME210
4633$	OI-374
1194$	4CP10.24
1203$	OI-288
4690$	OJ-237.9
4696$	OJ+447
1370$	OK+164
4755$	4C+05.40
4771$	4CP12.36C
4774$	DCC283.3-01.0,GS 283.3-01.0,SG 283.3-01.0,SG 283.2-01.1
4777$	SG 283.5-01.0,DCC283.5-01.0,GS 283.5-01.0
4793$	SG 287.9-01.0
4799$	TD 291.1-02.1
4808$	TD 292.1-00.5
4840$	ON+032
1553$	HM 1225-08
4852$	NGC 4530
4877$	MSH 13-001
4878$	5C4.182,B2.2 1304+278,OP+207.7
4881$	TD 305.2-00.4
4902$	DTG308.1-00.4
4903$	OP-357,HM 1334-33,PKS1334-33
-912$	DTG309.1+00.2

REMARKS

4963S	4C+27.29,B2.2 1422+27,MW 1421+27,W4C27.14.02,0Q+238
4951S	NGC 5692,MSH 14+010
4963S	PKS1447-433
4972S	OTG318.9-00.1
4978S	OTG320.3+00.8
4981S	OTG326.1-00.5,GS 320.1-00.5,SG 320.1-00.5
5020S	MCI 1551-20F
5052S	MSH 16-008
5060S	SHARP, 27
5093S	OT-317
2801S	DM 320.6-00.1,ADG359.4-00.1,3TD359.4-00.1,DKM359.4-00.1
5170S	FJ 1754-23
5186S	B2.2 1800+28F
2673S	LMH 14
5202S	SHARP, 32
5212S	OU-020.6
5226S	GD 016.6-00.3,ADG016.6-00.3
5246S	SG 023.1+00.6,GD 023.1+00.6
5263S	SG 025.3+00.2,ADG025.3+00.3,GD 025.3+
5268S	SG 025.3-00.1
5284S	MK1.07
5285S	MSH 18-010
5293S	BK 029.7-00.2,ADG029.7-00.2,NRAO530,DKM029.7-00.2,SG 029.7-00.2,KES75,4C-03.70
5294S	OU+273
2269S	BK 030.4-00.2,SG 030.4-00.2,ADG030.4-00.2
5297S	OU+475
5310S	HR 04,ADG032.9-00.0,DK+033.0+00.1,PK 032.9+00.0
2313S	MH 42
5345S	HR 42,DWG042.1-00.6,ADG042.1-00.6
5346S	B2.3 1907+359
5348S	B2.3 1908+36,4C+36.32
2337S	HR 49,DWG044.2+00.1
5349S	OW+316,PZ 1909+32
5361S	OCG053.2+00.2,ADG053.2+00.2
5384S	BRIGHT NEB
5439S	B2 1950+298
2518S	OW-015.1
5482S	BRIGHT NEB
2525S	OW+318
2545S	ADG074.8+00.7,DKM074.8+00.6
5516S	NGC 6940
5615S	B2.3 2125+36F
5653S	OX-295.1
2917S	PKS2228-319
5739S	PKS2303-304,OZ-306
5742S	4C+13.87
3161S	NGC 7768
5789S	B2 2349+29